

**SUPPLEMENTAL  
SITE  
INVESTIGATION  
REPORT**

**FORMER  
GORHAM  
MANUFACTURING  
FACILITY  
333 ADELAIDE  
AVENUE  
PROVIDENCE,  
RHODE ISLAND**

***Prepared for:***

Textron, Inc.  
40 Westminster Street  
Providence, Rhode  
Island 02903

***Prepared by:***

MACTEC  
Engineering and  
Consulting, Inc.  
107 Audubon Road  
Wakefield,  
Massachusetts 01880



July 31, 2006

Volume III of IV

**SUPPLEMENTAL SITE INVESTIGATION REPORT**

**FORMER GORHAM MANUFACTURING FACILITY  
333 ADELAIDE AVENUE  
PROVIDENCE, RHODE ISLAND**

***Prepared for:***

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July 31, 2006

Volume III of IV

**APPENDIX E**  
**Laboratory Reports**  
**Volume III of IV**



# ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS


## PROJECT NARRATIVE

Page One of Two

Chris Ricardi  
MACTEC Engineering & Consulting, Inc.  
32 Daniel Webster Highway Ste 25  
Merrimack, NH 03054

**RE: Providence Gorham Site**  
**ESS Laboratory Work Order Number: 0606346**

This signed Certificate of Analysis is our approved release of your analytical results. Beginning with this Project Narrative, the entire report has been paginated. The ESS Laboratory Certifications sheet is the final report page. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been mailed. If you have any questions or concerns, please feel free to call our Customer Service Department.



Laurel Stoddard  
Laboratory Director

Date: July 24, 2006

### Sample Receipt

15 Aqueous samples were received on June 21, 2006 for the analyses specified on the enclosed Chain of Custody Record. Samples 0606346-04 and 0606346-12 were canceled.

### Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration may be used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC, except where noted within this project narrative.

### Metals Analysis

ESS Laboratory utilized the established linear dynamic range to determine acceptable analytical results.

The Relative Percent Difference for the Blank Spike/Blank Spike Duplicate was outside of the recommended range for Dissolved Antimony.

The batch duplicate was outside of the recommended range for Total Cadmium, however, was within  $\pm$ MRL.

The Relative Percent Difference for the Blank Spike/Blank Spike Duplicate was outside of the recommended range for Total Antimony.

### Pesticides Analysis

Blank Spike was outside of the recommended range for gamma-Chlordane. This analyte exceeds the upper control limit, however, samples were non detect for this analyte.

The Relative Percent Difference for the Blank Spike/Blank Spike Duplicate was outside of the recommended range for gamma-Chlordane.

*Continued*

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

CERTIFICATE OF ANALYSIS

## PROJECT NARRATIVE

Page Two of Two

Chris Ricardi  
MACTEC Engineering & Consulting, Inc.  
32 Daniel Webster Highway Ste 25  
Merrimack, NH 03054

**RE: Providence Gorham Site**  
**ESS Laboratory Work Order Number: 0606346**

### **Volatile Organics Analysis**

The Relative Percent Difference for the Blank Spike/Blank Spike Duplicate was outside of the recommended range for 1,4-Dioxane - Screen.

The batch Matrix Spike/Matrix Spike Duplicate was outside of the recommended ranges for 1,4-Dioxane - Screen due to matrix interferences. This analyte was below the lower control limit.

The Relative Percent Difference for the Matrix Spike/Matrix Spike Duplicate was outside of the recommended range for 1,4-Dioxane - Screen.

Blank Spike was outside of the recommended range for 1,4-Dioxane - Screen. This analyte exceeds the upper control limit, however, samples were non detect for this analyte.

### **Semivolatile Organics Analysis SIMS**

The Relative Percent Difference for the Blank Spike/Blank Spike Duplicate was outside of the recommended range for Benzo(a)pyrene, Benzo(b)fluoranthene and Benzo(k)fluoranthene.

Surrogate recovery was outside of the recommended range for sample 0606346-10.

Internal standard recoveries were outside of the recommended ranges for samples 0606346-02 and 0606346-07 due to matrix interferences.

No other observations noted.

End of Project Narrative.

mdp

# Metals Data Package

# Metals Sample Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW10  
Date Sampled: 06/21/06 11:45  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-01  
Sample Matrix: Surface Water

### 3005A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
<b>Hardness</b>	<b>70.8</b>	mg/L	1.32	6010B	1	JP	06/22/06	1	1
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW10  
Date Sampled: 06/21/06 11:45  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-01  
Sample Matrix: Surface Water

### 3005A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW11  
Date Sampled: 06/21/06 12:53  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-02  
Sample Matrix: Surface Water

### 3005A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW11  
Date Sampled: 06/21/06 12:53  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-02  
Sample Matrix: Surface Water

### 3005A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
<b>Hardness</b>	<b>71.9</b>	mg/L	1.32	6010B	1	JP	06/22/06	1	1
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW19  
Date Sampled: 06/21/06 13:30  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-03  
Sample Matrix: Surface Water

### 3005A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW19  
Date Sampled: 06/21/06 13:30  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-03  
Sample Matrix: Surface Water

### 3005A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
<b>Copper</b>	<b>0.029</b>	mg/L	0.020	6010B	1	JP	06/22/06	50	50
<b>Hardness</b>	<b>76.1</b>	mg/L	1.32	6010B	1	JP	06/22/06	1	1
<b>Lead</b>	<b>0.0121</b>	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
<b>Zinc</b>	<b>0.068</b>	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW12  
Date Sampled: 06/21/06 14:16  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-05  
Sample Matrix: Surface Water

### 3005A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Lead	ND	mg/L	0.0050	7421	1	JP	06/28/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW12  
Date Sampled: 06/21/06 14:16  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-05  
Sample Matrix: Surface Water

### 3005A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
<b>Hardness</b>	<b>67.0</b>	mg/L	1.32	6010B	1	JP	06/22/06	1	1
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW16  
Date Sampled: 06/21/06 14:29  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-06  
Sample Matrix: Surface Water

### 3005A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Lead	ND	mg/L	0.0050	7421	1	JP	06/28/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW16  
Date Sampled: 06/21/06 14:29  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-06  
Sample Matrix: Surface Water

### 3005A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
<b>Hardness</b>	<b>78.4</b>	mg/L	1.32	6010B	1	JP	06/22/06	1	1
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW18  
Date Sampled: 06/21/06 14:44  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-07  
Sample Matrix: Surface Water

### 3005A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW18  
Date Sampled: 06/21/06 14:44  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-07  
Sample Matrix: Surface Water

### 3005A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
<b>Chromium</b>	<b>0.060</b>	mg/L	0.020	6010B	1	JP	06/22/06	50	50
<b>Copper</b>	<b>0.099</b>	mg/L	0.020	6010B	1	JP	06/22/06	50	50
<b>Hardness</b>	<b>87.3</b>	mg/L	1.32	6010B	1	JP	06/22/06	1	1
<b>Lead</b>	<b>0.0318</b>	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
<b>Silver</b>	<b>0.008</b>	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
<b>Zinc</b>	<b>0.107</b>	mg/L	0.050	6010B	1	JP	06/22/06	50	50



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW21  
Date Sampled: 06/21/06 14:54  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-08  
Sample Matrix: Surface Water

### 3005A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW21  
Date Sampled: 06/21/06 14:54  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-08  
Sample Matrix: Surface Water

### 3005A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
<b>Chromium</b>	<b>0.034</b>	mg/L	0.020	6010B	1	JP	06/22/06	50	50
<b>Copper</b>	<b>0.071</b>	mg/L	0.020	6010B	1	JP	06/22/06	50	50
<b>Hardness</b>	<b>86.7</b>	mg/L	1.32	6010B	1	JP	06/22/06	1	1
<b>Lead</b>	<b>0.0258</b>	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
<b>Silver</b>	<b>0.005</b>	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
<b>Zinc</b>	<b>0.089</b>	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW22  
Date Sampled: 06/21/06 15:05  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-09  
Sample Matrix: Surface Water

### 3005A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW22  
Date Sampled: 06/21/06 15:05  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-09  
Sample Matrix: Surface Water

### 3005A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
<b>Chromium</b>	<b>0.046</b>	mg/L	0.020	6010B	1	JP	06/22/06	50	50
<b>Copper</b>	<b>0.126</b>	mg/L	0.020	6010B	1	JP	06/22/06	50	50
<b>Hardness</b>	<b>86.7</b>	mg/L	1.32	6010B	1	JP	06/22/06	1	1
<b>Lead</b>	<b>0.0309</b>	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
<b>Silver</b>	<b>0.006</b>	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
<b>Zinc</b>	<b>0.146</b>	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW23  
Date Sampled: 06/21/06 15:15  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-10  
Sample Matrix: Surface Water

### 3005A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW23  
Date Sampled: 06/21/06 15:15  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-10  
Sample Matrix: Surface Water

### 3005A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
<b>Copper</b>	<b>0.023</b>	mg/L	0.020	6010B	1	JP	06/22/06	50	50
<b>Hardness</b>	<b>86.6</b>	mg/L	1.32	6010B	1	JP	06/22/06	1	1
<b>Lead</b>	<b>0.0083</b>	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW24  
Date Sampled: 06/21/06 15:25  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-11  
Sample Matrix: Surface Water

### 3005A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW24  
Date Sampled: 06/21/06 15:25  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-11  
Sample Matrix: Surface Water

### 3005A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
<b>Hardness</b>	<b>83.4</b>	mg/L	1.32	6010B	1	JP	06/22/06	1	1
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW26  
Date Sampled: 06/21/06 15:48  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-13  
Sample Matrix: Surface Water

### 3005A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW26  
Date Sampled: 06/21/06 15:48  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-13  
Sample Matrix: Surface Water

### 3005A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
<b>Hardness</b>	<b>73.7</b>	mg/L	1.32	6010B	1	JP	06/22/06	1	1
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW20  
Date Sampled: 06/21/06 16:09  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-14  
Sample Matrix: Surface Water

### 3005A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW20  
Date Sampled: 06/21/06 16:09  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-14  
Sample Matrix: Surface Water

### 3005A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
<b>Hardness</b>	<b>77.3</b>	mg/L	1.32	6010B	1	JP	06/22/06	1	1
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW17  
Date Sampled: 06/21/06 16:18  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-15  
Sample Matrix: Surface Water

### 3005A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW17  
Date Sampled: 06/21/06 16:18  
Percent Solids: N/A

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-15  
Sample Matrix: Surface Water

### 3005A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/22/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/22/06	50	50
<b>Hardness</b>	<b>73.6</b>	mg/L	1.32	6010B	1	JP	06/22/06	1	1
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/22/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/22/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/22/06	50	50

# Metals Quality Control Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>3005A/6000/7000 Dissolved Metals</b>										
<b>Batch BF62207 - 3005A</b>										
<b>Blank</b>										
Antimony	ND	0.0050	mg/L							
Arsenic	ND	0.0050	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.001	mg/L							
Cadmium	ND	0.005	mg/L							
Chromium	ND	0.020	mg/L							
Copper	ND	0.020	mg/L							
Lead	ND	0.0050	mg/L							
Nickel	ND	0.050	mg/L							
Selenium	ND	0.05	mg/L							
Silver	ND	0.005	mg/L							
Thallium	ND	0.0020	mg/L							
Zinc	ND	0.050	mg/L							
<b>LCS</b>										
Barium	0.508	0.050	mg/L	0.500		102	80-120			
Beryllium	0.053	0.001	mg/L	0.0500		106	80-120			
Cadmium	0.259	0.005	mg/L	0.250		104	80-120			
Chromium	0.519	0.020	mg/L	0.500		104	80-120			
Copper	0.509	0.020	mg/L	0.500		102	80-120			
Nickel	0.520	0.050	mg/L	0.500		104	80-120			
Selenium	1.06	0.05	mg/L	1.00		106	80-120			
Silver	0.261	0.005	mg/L	0.250		104	80-120			
Zinc	0.517	0.050	mg/L	0.500		103	80-120			
<b>LCS</b>										
Antimony	0.0183	0.0050	mg/L	0.0200		92	80-120			
Arsenic	0.0191	0.0050	mg/L	0.0200		96	80-120			
Lead	0.0199	0.0050	mg/L	0.0200		100	80-120			
Thallium	0.0200	0.0020	mg/L	0.0200		100	80-120			
<b>LCS Dup</b>										
Barium	0.509	0.050	mg/L	0.500		102	80-120	0	20	
Beryllium	0.053	0.001	mg/L	0.0500		106	80-120	0	20	
Cadmium	0.259	0.005	mg/L	0.250		104	80-120	0	20	
Chromium	0.520	0.020	mg/L	0.500		104	80-120	0	20	
Copper	0.510	0.020	mg/L	0.500		102	80-120	0	20	
Nickel	0.520	0.050	mg/L	0.500		104	80-120	0	20	
Selenium	1.06	0.05	mg/L	1.00		106	80-120	0	20	
Silver	0.261	0.005	mg/L	0.250		104	80-120	0	20	
Zinc	0.517	0.050	mg/L	0.500		103	80-120	0	20	
<b>LCS Dup</b>										
Antimony	0.0240	0.0050	mg/L	0.0200		120	80-120	26	20	+
Arsenic	0.0190	0.0050	mg/L	0.0200		95	80-120	0.5	20	
Lead	0.0202	0.0050	mg/L	0.0200		101	80-120	1	20	
Thallium	0.0202	0.0020	mg/L	0.0200		101	80-120	1	20	
<b>Duplicate</b>	<b>Source: 0606346-06</b>									



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 3005A/6000/7000 Dissolved Metals

##### Batch BF62207 - 3005A

Antimony	ND	0.0050	mg/L		0.0036			200	20	
Arsenic	0.0006	0.0050	mg/L		0.0007			15	20	
Barium	0.029	0.050	mg/L		0.029			0	20	
Beryllium	ND	0.001	mg/L		ND				20	
Cadmium	ND	0.005	mg/L		ND				20	
Chromium	ND	0.020	mg/L		ND				20	
Copper	ND	0.020	mg/L		ND				20	
Lead	ND	0.0050	mg/L		ND				20	
Nickel	ND	0.050	mg/L		ND				20	
Selenium	ND	0.05	mg/L		ND				20	
Silver	0.0007	0.005	mg/L		ND				20	
Thallium	ND	0.0020	mg/L		ND				20	
Zinc	0.009	0.050	mg/L		0.010			11	20	

##### Duplicate Source: 0606346-15

Antimony	ND	0.0050	mg/L		ND				20	
Arsenic	0.0007	0.0050	mg/L		0.0009			25	20	
Barium	0.024	0.050	mg/L		0.025			4	20	
Beryllium	ND	0.001	mg/L		ND				20	
Cadmium	ND	0.005	mg/L		0.0003			200	20	
Chromium	ND	0.020	mg/L		ND				20	
Copper	ND	0.020	mg/L		ND				20	
Lead	ND	0.0050	mg/L		ND				20	
Nickel	ND	0.050	mg/L		ND				20	
Selenium	ND	0.05	mg/L		ND				20	
Silver	ND	0.005	mg/L		ND				20	
Thallium	0.0003	0.0020	mg/L		ND				20	
Zinc	0.016	0.050	mg/L		0.016			0	20	

##### Matrix Spike Source: 0606346-06

Barium	0.535	0.050	mg/L	0.500	0.029	101	75-125			
Beryllium	0.053	0.001	mg/L	0.0500	ND	106	75-125			
Cadmium	0.258	0.005	mg/L	0.250	ND	103	75-125			
Chromium	0.518	0.020	mg/L	0.500	ND	104	75-125			
Copper	0.524	0.020	mg/L	0.500	ND	105	75-125			
Nickel	0.516	0.050	mg/L	0.500	ND	103	75-125			
Selenium	1.06	0.05	mg/L	1.00	ND	106	75-125			
Silver	0.263	0.005	mg/L	0.250	ND	105	75-125			
Zinc	0.522	0.050	mg/L	0.500	0.010	102	75-125			

##### Matrix Spike Source: 0606346-15

Barium	0.538	0.050	mg/L	0.500	0.025	103	75-125			
Beryllium	0.054	0.001	mg/L	0.0500	ND	108	75-125			
Cadmium	0.261	0.005	mg/L	0.250	0.0003	104	75-125			
Chromium	0.527	0.020	mg/L	0.500	ND	105	75-125			
Copper	0.532	0.020	mg/L	0.500	ND	106	75-125			
Nickel	0.525	0.050	mg/L	0.500	ND	105	75-125			
Selenium	1.07	0.05	mg/L	1.00	ND	107	75-125			
Silver	0.266	0.005	mg/L	0.250	ND	106	75-125			

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 3005A/6000/7000 Dissolved Metals

##### Batch BF62207 - 3005A

Zinc	0.534	0.050	mg/L	0.500	0.016	104	75-125			
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##### Matrix Spike Source: 0606346-06

Antimony	0.0197	0.0050	mg/L	0.0200	0.0036	80	75-125			
Arsenic	0.0211	0.0050	mg/L	0.0200	0.0007	102	75-125			
Lead	0.0208	0.0050	mg/L	0.0200	ND	104	75-125			
Thallium	0.0188	0.0020	mg/L	0.0200	ND	94	75-125			

##### Matrix Spike Source: 0606346-15

Antimony	0.0194	0.0050	mg/L	0.0200	ND	97	75-125			
Arsenic	0.0215	0.0050	mg/L	0.0200	0.0009	103	75-125			
Lead	0.0207	0.0050	mg/L	0.0200	ND	104	75-125			
Thallium	0.0197	0.0020	mg/L	0.0200	ND	98	75-125			

##### Batch BF62211 - 245.1/7470A

<b>Blank</b>										
Mercury	ND	0.0005	mg/L							

<b>LCS</b>										
Mercury	0.0059	0.0005	mg/L	0.00600		98	80-120			

<b>LCS Dup</b>										
Mercury	0.0059	0.0005	mg/L	0.00600		98	80-120	0	20	

<b>Duplicate Source: 0606346-05</b>										
Mercury	ND	0.0005	mg/L		ND				20	

<b>Duplicate Source: 0606346-15</b>										
Mercury	ND	0.0005	mg/L		ND				20	

<b>Matrix Spike Source: 0606346-05</b>										
Mercury	0.0062	0.0005	mg/L	0.00600	ND	103	75-125			

<b>Matrix Spike Source: 0606346-15</b>										
Mercury	0.0063	0.0005	mg/L	0.00600	ND	105	75-125			

<b>Matrix Spike Dup Source: 0606346-05</b>										
Mercury	0.0064	0.0005	mg/L	0.00600	ND	107	75-125	4	20	

<b>Matrix Spike Dup Source: 0606346-15</b>										
Mercury	0.0063	0.0005	mg/L	0.00600	ND	105	75-125	0	20	

#### 3005A/6000/7000 Total Metals

##### Batch BF62206 - 3005A

<b>Blank</b>										
Antimony	ND	0.0050	mg/L							
Arsenic	ND	0.0050	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.001	mg/L							
Cadmium	ND	0.005	mg/L							
Calcium	ND	0.20	mg/L							
Chromium	ND	0.020	mg/L							
Copper	ND	0.020	mg/L							
Lead	ND	0.0050	mg/L							
Magnesium	ND	0.20	mg/L							

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>3005A/6000/7000 Total Metals</b>										
<b>Batch BF62206 - 3005A</b>										
Nickel	ND	0.050	mg/L							
Selenium	ND	0.05	mg/L							
Silver	ND	0.005	mg/L							
Thallium	ND	0.0020	mg/L							
Zinc	ND	0.050	mg/L							
<b>LCS</b>										
Barium	0.507	0.050	mg/L	0.500		101	80-120			
Beryllium	0.052	0.001	mg/L	0.0500		104	80-120			
Cadmium	0.255	0.005	mg/L	0.250		102	80-120			
Calcium	5.26	0.20	mg/L	5.00		105	80-120			
Chromium	0.519	0.020	mg/L	0.500		104	80-120			
Copper	0.516	0.020	mg/L	0.500		103	80-120			
Magnesium	5.03	0.20	mg/L	5.00		101	80-120			
Nickel	0.519	0.050	mg/L	0.500		104	80-120			
Selenium	1.01	0.05	mg/L	1.00		101	80-120			
Silver	0.259	0.005	mg/L	0.250		104	80-120			
Zinc	0.511	0.050	mg/L	0.500		102	80-120			
<b>LCS</b>										
Antimony	0.0191	0.0050	mg/L	0.0200		96	80-120			
Arsenic	0.0185	0.0050	mg/L	0.0200		92	80-120			
Lead	0.0212	0.0050	mg/L	0.0200		106	80-120			
Thallium	0.0196	0.0020	mg/L	0.0200		98	80-120			
<b>LCS Dup</b>										
Barium	0.508	0.050	mg/L	0.500		102	80-120	1	20	
Beryllium	0.052	0.001	mg/L	0.0500		104	80-120	0	20	
Cadmium	0.256	0.005	mg/L	0.250		102	80-120	0	20	
Calcium	5.25	0.20	mg/L	5.00		105	80-120	0	20	
Chromium	0.519	0.020	mg/L	0.500		104	80-120	0	20	
Copper	0.516	0.020	mg/L	0.500		103	80-120	0	20	
Magnesium	5.04	0.20	mg/L	5.00		101	80-120	0	20	
Nickel	0.520	0.050	mg/L	0.500		104	80-120	0	20	
Selenium	1.02	0.05	mg/L	1.00		102	80-120	1	20	
Silver	0.259	0.005	mg/L	0.250		104	80-120	0	20	
Zinc	0.512	0.050	mg/L	0.500		102	80-120	0	20	
<b>LCS Dup</b>										
Antimony	0.0180	0.0050	mg/L	0.0200		90	80-120	6	20	
Arsenic	0.0186	0.0050	mg/L	0.0200		93	80-120	0.5	20	
Lead	0.0201	0.0050	mg/L	0.0200		100	80-120	6	20	
Thallium	0.0206	0.0020	mg/L	0.0200		103	80-120	5	20	
<b>Duplicate Source: 0606346-01</b>										
Antimony	ND	0.0050	mg/L		ND				20	
Arsenic	0.0007	0.0050	mg/L		0.0009			25	20	
Barium	0.022	0.050	mg/L		0.023			4	20	
Beryllium	ND	0.001	mg/L		ND				20	
Cadmium	0.009	0.005	mg/L	35	0.001			160	20	+
Calcium	22.1	0.20	mg/L		22.4			1	20	

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 3005A/6000/7000 Total Metals

##### Batch BF62206 - 3005A

Chromium	ND	0.020	mg/L		ND				20	
Copper	0.002	0.020	mg/L		0.002			0	20	
Lead	0.0007	0.0050	mg/L		0.0007			0	20	
Magnesium	3.62	0.20	mg/L		3.60			0.6	20	
Nickel	ND	0.050	mg/L		ND				20	
Selenium	ND	0.05	mg/L		ND				20	
Silver	ND	0.005	mg/L		0.0007			200	20	
Thallium	ND	0.0020	mg/L		ND				20	
Zinc	0.017	0.050	mg/L		0.017			0	20	

##### Duplicate Source: 0606346-11

Antimony	ND	0.0050	mg/L		ND				20	
Arsenic	0.0010	0.0050	mg/L		0.0010			0	20	
Barium	0.035	0.050	mg/L		0.036			3	20	
Beryllium	ND	0.001	mg/L		ND				20	
Cadmium	ND	0.005	mg/L		ND				20	
Calcium	26.1	0.20	mg/L		26.3			0.8	20	
Chromium	0.002	0.020	mg/L		0.003			40	20	
Copper	0.011	0.020	mg/L		0.011			0	20	
Magnesium	4.33	0.20	mg/L		4.30			0.7	20	
Nickel	ND	0.050	mg/L		ND				20	
Selenium	ND	0.05	mg/L		ND				20	
Silver	0.001	0.005	mg/L		0.0008			22	20	
Thallium	ND	0.0020	mg/L		ND				20	
Zinc	0.035	0.050	mg/L		0.031			12	20	

##### Matrix Spike Source: 0606346-01

Barium	0.530	0.050	mg/L	0.500	0.023	101	75-125			
Beryllium	0.053	0.001	mg/L	0.0500	ND	106	75-125			
Cadmium	0.259	0.005	mg/L	0.250	0.001	103	75-125			
Calcium	27.2	0.20	mg/L	5.00	22.4	96	75-125			
Chromium	0.523	0.020	mg/L	0.500	ND	105	75-125			
Copper	0.524	0.020	mg/L	0.500	0.002	104	75-125			
Magnesium	8.63	0.20	mg/L	5.00	3.60	101	75-125			
Nickel	0.520	0.050	mg/L	0.500	ND	104	75-125			
Selenium	1.07	0.05	mg/L	1.00	ND	107	75-125			
Silver	0.263	0.005	mg/L	0.250	0.0007	105	75-125			
Zinc	0.534	0.050	mg/L	0.500	0.017	103	75-125			

##### Matrix Spike Source: 0606346-11

Barium	0.544	0.050	mg/L	0.500	0.036	102	75-125			
Beryllium	0.053	0.001	mg/L	0.0500	ND	106	75-125			
Cadmium	0.258	0.005	mg/L	0.250	ND	103	75-125			
Calcium	31.0	0.20	mg/L	5.00	26.3	94	75-125			
Chromium	0.527	0.020	mg/L	0.500	0.003	105	75-125			
Copper	0.532	0.020	mg/L	0.500	0.011	104	75-125			
Magnesium	9.29	0.20	mg/L	5.00	4.30	100	75-125			
Nickel	0.520	0.050	mg/L	0.500	ND	104	75-125			
Selenium	1.06	0.05	mg/L	1.00	ND	106	75-125			

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 3005A/6000/7000 Total Metals

##### Batch BF62206 - 3005A

Silver	0.263	0.005	mg/L	0.250	0.0008	105	75-125			
Zinc	0.542	0.050	mg/L	0.500	0.031	102	75-125			

##### Matrix Spike Source: 0606346-01

Antimony	0.0187	0.0050	mg/L	0.0200	ND	94	75-125			
Arsenic	0.0206	0.0050	mg/L	0.0200	0.0009	99	75-125			
Lead	0.0202	0.0050	mg/L	0.0200	0.0007	98	75-125			
Thallium	0.0190	0.0020	mg/L	0.0200	ND	95	75-125			

##### Matrix Spike Source: 0606346-11

Antimony	0.0207	0.0050	mg/L	0.0200	ND	104	75-125			
Arsenic	0.0217	0.0050	mg/L	0.0200	0.0010	104	75-125			
Lead	0.0251	0.0050	mg/L	0.0200	0.0044	104	75-125			
Thallium	0.0196	0.0020	mg/L	0.0200	ND	98	75-125			

##### Batch BF62207 - 3005A

Blank										
Antimony	ND	0.0050	mg/L							
Arsenic	ND	0.0050	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.001	mg/L							
Cadmium	ND	0.005	mg/L							
Calcium	ND	0.20	mg/L							
Chromium	ND	0.020	mg/L							
Copper	ND	0.020	mg/L							
Lead	ND	0.0050	mg/L							
Magnesium	ND	0.20	mg/L							
Nickel	ND	0.050	mg/L							
Selenium	ND	0.05	mg/L							
Silver	ND	0.005	mg/L							
Thallium	ND	0.0020	mg/L							
Zinc	ND	0.050	mg/L							

LCS										
Barium	0.508	0.050	mg/L	0.500		102	80-120			
Beryllium	0.053	0.001	mg/L	0.0500		106	80-120			
Cadmium	0.259	0.005	mg/L	0.250		104	80-120			
Calcium	5.24	0.20	mg/L	5.00		105	80-120			
Chromium	0.519	0.020	mg/L	0.500		104	80-120			
Copper	0.509	0.020	mg/L	0.500		102	80-120			
Magnesium	5.06	0.20	mg/L	5.00		101	80-120			
Nickel	0.520	0.050	mg/L	0.500		104	80-120			
Selenium	1.06	0.05	mg/L	1.00		106	80-120			
Silver	0.261	0.005	mg/L	0.250		104	80-120			
Zinc	0.517	0.050	mg/L	0.500		103	80-120			

LCS										
Antimony	0.0183	0.0050	mg/L	0.0200		92	80-120			
Arsenic	0.0191	0.0050	mg/L	0.0200		96	80-120			
Lead	0.0199	0.0050	mg/L	0.0200		100	80-120			

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 3005A/6000/7000 Total Metals

##### Batch BF62207 - 3005A

Thallium	0.0200	0.0020	mg/L	0.0200		100	80-120			
<b>LCS Dup</b>										
Barium	0.509	0.050	mg/L	0.500		102	80-120	0	20	
Beryllium	0.053	0.001	mg/L	0.0500		106	80-120	0	20	
Cadmium	0.259	0.005	mg/L	0.250		104	80-120	0	20	
Calcium	5.24	0.20	mg/L	5.00		105	80-120	0	20	
Chromium	0.520	0.020	mg/L	0.500		104	80-120	0	20	
Copper	0.510	0.020	mg/L	0.500		102	80-120	0	20	
Magnesium	5.06	0.20	mg/L	5.00		101	80-120	0	20	
Nickel	0.520	0.050	mg/L	0.500		104	80-120	0	20	
Selenium	1.06	0.05	mg/L	1.00		106	80-120	0	20	
Silver	0.261	0.005	mg/L	0.250		104	80-120	0	20	
Zinc	0.517	0.050	mg/L	0.500		103	80-120	0	20	

##### LCS Dup

Antimony	0.0240	0.0050	mg/L	0.0200		120	80-120	26	20	+
Arsenic	0.0190	0.0050	mg/L	0.0200		95	80-120	0.5	20	
Lead	0.0202	0.0050	mg/L	0.0200		101	80-120	1	20	
Thallium	0.0202	0.0020	mg/L	0.0200		101	80-120	1	20	

##### Batch BF62210 - 245.1/7470A

##### Blank

Mercury	ND	0.0005	mg/L							
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##### LCS

Mercury	0.0059	0.0005	mg/L	0.00600		98	80-120			
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##### LCS Dup

Mercury	0.0059	0.0005	mg/L	0.00600		98	80-120	0	20	
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##### Duplicate Source: 0606346-10

Mercury	ND	0.0005	mg/L		ND				20	
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##### Matrix Spike Source: 0606346-10

Mercury	0.0061	0.0005	mg/L	0.00600	ND	102	75-125			
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##### Matrix Spike Dup Source: 0606346-10

Mercury	0.0061	0.0005	mg/L	0.00600	ND	102	75-125	0	20	
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##### Batch BF62211 - 245.1/7470A

##### Blank

Mercury	ND	0.0005	mg/L							
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##### LCS

Mercury	0.0059	0.0005	mg/L	0.00600		98	80-120			
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##### LCS Dup

Mercury	0.0059	0.0005	mg/L	0.00600		98	80-120	0	20	
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#### 8081A Organochlorine Pesticides

##### Batch BF62219 - 3510C

##### Blank

4,4'-DDD	ND	0.05	ug/L	38						
4,4'-DDE	ND	0.05	ug/L							

# Metals Calibration Data

## ANALYSIS SEQUENCE

BPG0205

Instrument: ICP2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606346-01RE2	Mg: Magnesium 6010 NR	A	1				MACTEC Engineering & Consulting, In
BPG0205-CAL1	QC		2		6F21081		
BPG0205-CAL2	QC		3		6F22005		
BPG0205-CAL3	QC		4		6F22006		
BPG0205-CAL4	QC		5		6F22007		
BPG0205-ICV1	QC		6		6F22006		
BPG0205-SCV1	QC		7		6F22010		
BPG0205-ICB1	QC		8				
BPG0205-CRL1	QC		9		6F22011		
BPG0205-CRL2	QC		10		6F22012		
BPG0205-CRL3	QC		11		6F22013		
BPG0205-CCB1	QC		12				
BPG0205-CCV1	QC		13		6F22006		
BPG0205-IFA1	QC		14		6F13074		
BPG0205-IFB1	QC		15		6F13075		
BF62206-BLK1	QC		16				
BF62206-BS1	QC		17				
BF62206-BSD1	QC		18				
BF62206-DUP1	QC		19				
BF62206-MS1	QC		20				
BF62206-DUP2	QC		21				
BF62206-MS2	QC		22				
BF62206-PS5	QC		23				
BPG0205-CCB2	QC		24				
BPG0205-CCV2	QC		25		6F22006		
BF62206-PS6	QC		26				
0606346-01	Ba: ppm Barium 6010	A	27				MACTEC Engineering & Consulting, In
0606346-01	Ca: Calcium 6010 NR	A	28				MACTEC Engineering & Consulting, In
0606346-01	Be: ppm Beryllium 6010	A	29				MACTEC Engineering & Consulting, In
0606346-01	Cd: ppm Cadmium 6010	A	30				MACTEC Engineering & Consulting, In
0606346-01	Cr: ppm Chromium 6010	A	31				MACTEC Engineering & Consulting, In
0606346-01	Cu: ppm Copper 6010	A	32				MACTEC Engineering & Consulting, In
0606346-01	Ni: ppm Nickel 6010	A	33				MACTEC Engineering & Consulting, In

Samples Loaded By \_\_\_\_\_

Date \_\_\_\_\_

Data Processed By \_\_\_\_\_

Date \_\_\_\_\_



## ANALYSIS SEQUENCE

BPG0205

Instrument: ICP2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606346-01	Se: ppm Selenium 6010	A	34				MACTEC Engineering & Consulting, Inc
0606346-01	Ag: ppm Silver 6010	A	35				MACTEC Engineering & Consulting, Inc
BPG0205-CCB3	QC		36				
BPG0205-CCV3	QC		37		6F22006		
0606346-01	Zn: ppm Zinc 6010	A	38				MACTEC Engineering & Consulting, Inc
0606346-02	Ba: ppm Barium 6010	A	39				MACTEC Engineering & Consulting, Inc
0606346-02	Mg: Magnesium 6010 NR	A	40				MACTEC Engineering & Consulting, Inc
0606346-02	Ca: Calcium 6010 NR	A	41				MACTEC Engineering & Consulting, Inc
0606346-02	Be: ppm Beryllium 6010	A	42				MACTEC Engineering & Consulting, Inc
0606346-02	Cd: ppm Cadmium 6010	A	43				MACTEC Engineering & Consulting, Inc
0606346-02	Cr: ppm Chromium 6010	A	44				MACTEC Engineering & Consulting, Inc
0606346-02	Cu: ppm Copper 6010	A	45				MACTEC Engineering & Consulting, Inc
0606346-02	Ni: ppm Nickel 6010	A	46				MACTEC Engineering & Consulting, Inc
0606346-02	Se: ppm Selenium 6010	A	47				MACTEC Engineering & Consulting, Inc
BPG0205-CCB4	QC		48				
BPG0205-CCV4	QC		49		6F22006		
0606346-02	Ag: ppm Silver 6010	A	50				MACTEC Engineering & Consulting, Inc
0606346-02	Zn: ppm Zinc 6010	A	51				MACTEC Engineering & Consulting, Inc
0606346-03	Be: ppm Beryllium 6010	A	52				MACTEC Engineering & Consulting, Inc
0606346-03	Cd: ppm Cadmium 6010	A	53				MACTEC Engineering & Consulting, Inc
0606346-03	Ba: ppm Barium 6010	A	54				MACTEC Engineering & Consulting, Inc
0606346-03	Cr: ppm Chromium 6010	A	55				MACTEC Engineering & Consulting, Inc
0606346-03	Cu: ppm Copper 6010	A	56				MACTEC Engineering & Consulting, Inc
0606346-03	Ni: ppm Nickel 6010	A	57				MACTEC Engineering & Consulting, Inc
0606346-03	Se: ppm Selenium 6010	A	58				MACTEC Engineering & Consulting, Inc
0606346-03	Ag: ppm Silver 6010	A	59				MACTEC Engineering & Consulting, Inc
BPG0205-CCB5	QC		60				
BPG0205-CCV5	QC		61		6F22006		
0606346-03	Zn: ppm Zinc 6010	A	62				MACTEC Engineering & Consulting, Inc
0606346-03	Mg: Magnesium 6010 NR	A	63				MACTEC Engineering & Consulting, Inc
0606346-03	Ca: Calcium 6010 NR	A	64				MACTEC Engineering & Consulting, Inc
0606346-05	Be: ppm Beryllium 6010	A	65				MACTEC Engineering & Consulting, Inc
0606346-05	Cd: ppm Cadmium 6010	A	66				MACTEC Engineering & Consulting, Inc

Samples Loaded By

Date

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Data Processed By

Date

## ANALYSIS SEQUENCE

BPG0205

Instrument: ICP2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606346-05	Ba: ppm Barium 6010	A	67				MACTEC Engineering & Consulting, In
0606346-05	Cr: ppm Chromium 6010	A	68				MACTEC Engineering & Consulting, In
0606346-05	Cu: ppm Copper 6010	A	69				MACTEC Engineering & Consulting, In
0606346-05	Ni: ppm Nickel 6010	A	70				MACTEC Engineering & Consulting, In
0606346-05	Se: ppm Selenium 6010	A	71				MACTEC Engineering & Consulting, In
0606346-05	Ag: ppm Silver 6010	A	72				MACTEC Engineering & Consulting, In
0606346-05	Zn: ppm Zinc 6010	A	73				MACTEC Engineering & Consulting, In
0606346-05	Mg: Magnesium 6010 NR	A	74				MACTEC Engineering & Consulting, In
0606346-05	Ca: Calcium 6010 NR	A	75				MACTEC Engineering & Consulting, In
0606346-06	Be: ppm Beryllium 6010	A	76				MACTEC Engineering & Consulting, In
0606346-06	Cd: ppm Cadmium 6010	A	77				MACTEC Engineering & Consulting, In
0606346-06	Ba: ppm Barium 6010	A	78				MACTEC Engineering & Consulting, In
0606346-06	Cr: ppm Chromium 6010	A	79				MACTEC Engineering & Consulting, In
0606346-06	Cu: ppm Copper 6010	A	80				MACTEC Engineering & Consulting, In
0606346-06	Ni: ppm Nickel 6010	A	81				MACTEC Engineering & Consulting, In
0606346-06	Se: ppm Selenium 6010	A	82				MACTEC Engineering & Consulting, In
0606346-06	Ag: ppm Silver 6010	A	83				MACTEC Engineering & Consulting, In
0606346-06	Zn: ppm Zinc 6010	A	84				MACTEC Engineering & Consulting, In
0606346-06	Mg: Magnesium 6010 NR	A	85				MACTEC Engineering & Consulting, In
0606346-06	Ca: Calcium 6010 NR	A	86				MACTEC Engineering & Consulting, In
0606346-07	Be: ppm Beryllium 6010	A	87				MACTEC Engineering & Consulting, In
0606346-07	Cd: ppm Cadmium 6010	A	88				MACTEC Engineering & Consulting, In
0606346-07	Ba: ppm Barium 6010	A	89				MACTEC Engineering & Consulting, In
0606346-07	Cr: ppm Chromium 6010	A	90				MACTEC Engineering & Consulting, In
0606346-07	Cu: ppm Copper 6010	A	91				MACTEC Engineering & Consulting, In
0606346-07	Ni: ppm Nickel 6010	A	92				MACTEC Engineering & Consulting, In
0606346-07	Se: ppm Selenium 6010	A	93				MACTEC Engineering & Consulting, In
0606346-07	Ag: ppm Silver 6010	A	94				MACTEC Engineering & Consulting, In
0606346-07	Zn: ppm Zinc 6010	A	95				MACTEC Engineering & Consulting, In
0606346-07	Mg: Magnesium 6010 NR	A	96				MACTEC Engineering & Consulting, In
0606346-07	Ca: Calcium 6010 NR	A	97				MACTEC Engineering & Consulting, In
0606346-08	Be: ppm Beryllium 6010	A	98				MACTEC Engineering & Consulting, In
0606346-08	Cd: ppm Cadmium 6010	A	99				MACTEC Engineering & Consulting, In

Samples Loaded By

Date

Data Processed By

Date

## ANALYSIS SEQUENCE

BPG0205

Instrument: ICP2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606346-08	Ba: ppm Barium 6010	A	100				MACTEC Engineering & Consulting, Inc
0606346-08	Cr: ppm Chromium 6010	A	101				MACTEC Engineering & Consulting, Inc
0606346-08	Cu: ppm Copper 6010	A	102				MACTEC Engineering & Consulting, Inc
0606346-08	Ni: ppm Nickel 6010	A	103				MACTEC Engineering & Consulting, Inc
0606346-08	Se: ppm Selenium 6010	A	104				MACTEC Engineering & Consulting, Inc
0606346-08	Ag: ppm Silver 6010	A	105				MACTEC Engineering & Consulting, Inc
0606346-08	Zn: ppm Zinc 6010	A	106				MACTEC Engineering & Consulting, Inc
0606346-08	Mg: Magnesium 6010 NR	A	107				MACTEC Engineering & Consulting, Inc
0606346-08	Ca: Calcium 6010 NR	A	108				MACTEC Engineering & Consulting, Inc
0606346-09	Mg: Magnesium 6010 NR	A	109				MACTEC Engineering & Consulting, Inc
0606346-09	Ca: Calcium 6010 NR	A	110				MACTEC Engineering & Consulting, Inc
0606346-09	Be: ppm Beryllium 6010	A	111				MACTEC Engineering & Consulting, Inc
0606346-09	Cd: ppm Cadmium 6010	A	112				MACTEC Engineering & Consulting, Inc
0606346-09	Ba: ppm Barium 6010	A	113				MACTEC Engineering & Consulting, Inc
0606346-09	Cr: ppm Chromium 6010	A	114				MACTEC Engineering & Consulting, Inc
0606346-09	Cu: ppm Copper 6010	A	115				MACTEC Engineering & Consulting, Inc
0606346-09	Ni: ppm Nickel 6010	A	116				MACTEC Engineering & Consulting, Inc
0606346-09	Se: ppm Selenium 6010	A	117				MACTEC Engineering & Consulting, Inc
0606346-09	Ag: ppm Silver 6010	A	118				MACTEC Engineering & Consulting, Inc
0606346-09	Zn: ppm Zinc 6010	A	119				MACTEC Engineering & Consulting, Inc
0606346-10	Be: ppm Beryllium 6010	A	120				MACTEC Engineering & Consulting, Inc
0606346-10	Cd: ppm Cadmium 6010	A	121				MACTEC Engineering & Consulting, Inc
0606346-10	Ba: ppm Barium 6010	A	122				MACTEC Engineering & Consulting, Inc
0606346-10	Cr: ppm Chromium 6010	A	123				MACTEC Engineering & Consulting, Inc
0606346-10	Cu: ppm Copper 6010	A	124				MACTEC Engineering & Consulting, Inc
0606346-10	Ni: ppm Nickel 6010	A	125				MACTEC Engineering & Consulting, Inc
0606346-10	Se: ppm Selenium 6010	A	126				MACTEC Engineering & Consulting, Inc
0606346-10	Ag: ppm Silver 6010	A	127				MACTEC Engineering & Consulting, Inc
0606346-10	Zn: ppm Zinc 6010	A	128				MACTEC Engineering & Consulting, Inc
0606346-10	Mg: Magnesium 6010 NR	A	129				MACTEC Engineering & Consulting, Inc
0606346-10	Ca: Calcium 6010 NR	A	130				MACTEC Engineering & Consulting, Inc
0606346-11	Be: ppm Beryllium 6010	A	131				MACTEC Engineering & Consulting, Inc
0606346-11	Cd: ppm Cadmium 6010	A	132				MACTEC Engineering & Consulting, Inc

Samples Loaded By

Date

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Data Processed By

Date

## ANALYSIS SEQUENCE

BPG0205

Instrument: ICP2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606346-11	Ba: ppm Barium 6010	A	133				MACTEC Engineering & Consulting, Inc
0606346-11	Cr: ppm Chromium 6010	A	134				MACTEC Engineering & Consulting, Inc
0606346-11	Cu: ppm Copper 6010	A	135				MACTEC Engineering & Consulting, Inc
0606346-11	Ni: ppm Nickel 6010	A	136				MACTEC Engineering & Consulting, Inc
0606346-11	Se: ppm Selenium 6010	A	137				MACTEC Engineering & Consulting, Inc
0606346-11	Ag: ppm Silver 6010	A	138				MACTEC Engineering & Consulting, Inc
0606346-11	Zn: ppm Zinc 6010	A	139				MACTEC Engineering & Consulting, Inc
0606346-11	Mg: Magnesium 6010 NR	A	140				MACTEC Engineering & Consulting, Inc
0606346-11	Ca: Calcium 6010 NR	A	141				MACTEC Engineering & Consulting, Inc
BF62207-BLK1	QC		142				
BF62207-BS1	QC		143				
BF62207-BSD1	QC		144				
BF62207-DUP1	QC		145				
BF62207-MS1	QC		146				
BF62207-PS5	QC		147				
BF62207-DUP2	QC		148				
BF62207-MS2	QC		149				
BF62207-PS6	QC		150				
0606346-01	Ag: ppm Diss Silver 6010	G	151				MACTEC Engineering & Consulting, Inc
0606346-01	Ba: ppm Diss Barium 6010	G	152				MACTEC Engineering & Consulting, Inc
0606346-01	Be: ppm Diss Beryllium 6010	G	153				MACTEC Engineering & Consulting, Inc
0606346-01	Cd: ppm Diss Cadmium 6010	G	154				MACTEC Engineering & Consulting, Inc
0606346-01	Cr: ppm Diss Chromium 6010	G	155				MACTEC Engineering & Consulting, Inc
0606346-01	Cu: ppm Diss Copper 6010	G	156				MACTEC Engineering & Consulting, Inc
0606346-01	Ni: ppm Diss Nickel 6010	G	157				MACTEC Engineering & Consulting, Inc
0606346-01	Se: ppm Diss Selenium 6010	G	158				MACTEC Engineering & Consulting, Inc
0606346-01	Zn: ppm Diss Zinc 6010	G	159				MACTEC Engineering & Consulting, Inc
0606346-02	Ag: ppm Diss Silver 6010	O	160				MACTEC Engineering & Consulting, Inc
0606346-02	Ba: ppm Diss Barium 6010	O	161				MACTEC Engineering & Consulting, Inc
0606346-02	Be: ppm Diss Beryllium 6010	O	162				MACTEC Engineering & Consulting, Inc
0606346-02	Cd: ppm Diss Cadmium 6010	O	163				MACTEC Engineering & Consulting, Inc
0606346-02	Cr: ppm Diss Chromium 6010	O	164				MACTEC Engineering & Consulting, Inc
0606346-02	Cu: ppm Diss Copper 6010	O	165				MACTEC Engineering & Consulting, Inc

Samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

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Data Processed By \_\_\_\_\_ Date \_\_\_\_\_

## ANALYSIS SEQUENCE

BPG0205

Instrument: ICP2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606346-02	Ni: ppm Diss Nickel 6010	O	166				MACTEC Engineering & Consulting, In
0606346-02	Se: ppm Diss Selenium 6010	O	167				MACTEC Engineering & Consulting, In
0606346-02	Zn: ppm Diss Zinc 6010	O	168				MACTEC Engineering & Consulting, In
0606346-03	Ag: ppm Diss Silver 6010	O	169				MACTEC Engineering & Consulting, In
0606346-03	Ba: ppm Diss Barium 6010	O	170				MACTEC Engineering & Consulting, In
0606346-03	Be: ppm Diss Beryllium 6010	O	171				MACTEC Engineering & Consulting, In
0606346-03	Cd: ppm Diss Cadmium 6010	O	172				MACTEC Engineering & Consulting, In
0606346-03	Cr: ppm Diss Chromium 6010	O	173				MACTEC Engineering & Consulting, In
0606346-03	Cu: ppm Diss Copper 6010	O	174				MACTEC Engineering & Consulting, In
0606346-03	Ni: ppm Diss Nickel 6010	O	175				MACTEC Engineering & Consulting, In
0606346-03	Se: ppm Diss Selenium 6010	O	176				MACTEC Engineering & Consulting, In
0606346-03	Zn: ppm Diss Zinc 6010	O	177				MACTEC Engineering & Consulting, In
0606346-05	Ag: ppm Diss Silver 6010	G	178				MACTEC Engineering & Consulting, In
0606346-05	Ba: ppm Diss Barium 6010	G	179				MACTEC Engineering & Consulting, In
0606346-05	Be: ppm Diss Beryllium 6010	G	180				MACTEC Engineering & Consulting, In
0606346-05	Cd: ppm Diss Cadmium 6010	G	181				MACTEC Engineering & Consulting, In
0606346-05	Cr: ppm Diss Chromium 6010	G	182				MACTEC Engineering & Consulting, In
0606346-05	Cu: ppm Diss Copper 6010	G	183				MACTEC Engineering & Consulting, In
0606346-05	Ni: ppm Diss Nickel 6010	G	184				MACTEC Engineering & Consulting, In
0606346-05	Se: ppm Diss Selenium 6010	G	185				MACTEC Engineering & Consulting, In
0606346-05	Zn: ppm Diss Zinc 6010	G	186				MACTEC Engineering & Consulting, In
0606346-06	Ag: ppm Diss Silver 6010	G	187				MACTEC Engineering & Consulting, In
0606346-06	Ba: ppm Diss Barium 6010	G	188				MACTEC Engineering & Consulting, In
0606346-06	Be: ppm Diss Beryllium 6010	G	189				MACTEC Engineering & Consulting, In
0606346-06	Cd: ppm Diss Cadmium 6010	G	190				MACTEC Engineering & Consulting, In
0606346-06	Cr: ppm Diss Chromium 6010	G	191				MACTEC Engineering & Consulting, In
0606346-06	Cu: ppm Diss Copper 6010	G	192				MACTEC Engineering & Consulting, In
0606346-06	Ni: ppm Diss Nickel 6010	G	193				MACTEC Engineering & Consulting, In
0606346-06	Se: ppm Diss Selenium 6010	G	194				MACTEC Engineering & Consulting, In
0606346-06	Zn: ppm Diss Zinc 6010	G	195				MACTEC Engineering & Consulting, In
0606346-07	Ag: ppm Diss Silver 6010	G	196				MACTEC Engineering & Consulting, In
0606346-07	Ba: ppm Diss Barium 6010	G	197				MACTEC Engineering & Consulting, In
0606346-07	Be: ppm Diss Beryllium 6010	G	198				MACTEC Engineering & Consulting, In

Samples Loaded By

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Data Processed By

Date

## ANALYSIS SEQUENCE

BPG0205

Instrument: ICP2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606346-07	Cd: ppm Diss Cadmium 6010	G	199				MACTEC Engineering & Consulting, In
0606346-07	Cr: ppm Diss Chromium 6010	G	200				MACTEC Engineering & Consulting, In
0606346-07	Cu: ppm Diss Copper 6010	G	201				MACTEC Engineering & Consulting, In
0606346-07	Ni: ppm Diss Nickel 6010	G	202				MACTEC Engineering & Consulting, In
0606346-07	Se: ppm Diss Selenium 6010	G	203				MACTEC Engineering & Consulting, In
0606346-07	Zn: ppm Diss Zinc 6010	G	204				MACTEC Engineering & Consulting, In
0606346-08	Ag: ppm Diss Silver 6010	G	205				MACTEC Engineering & Consulting, In
0606346-08	Ba: ppm Diss Barium 6010	G	206				MACTEC Engineering & Consulting, In
0606346-08	Be: ppm Diss Beryllium 6010	G	207				MACTEC Engineering & Consulting, In
0606346-08	Cd: ppm Diss Cadmium 6010	G	208				MACTEC Engineering & Consulting, In
0606346-08	Cr: ppm Diss Chromium 6010	G	209				MACTEC Engineering & Consulting, In
0606346-08	Cu: ppm Diss Copper 6010	G	210				MACTEC Engineering & Consulting, In
0606346-08	Ni: ppm Diss Nickel 6010	G	211				MACTEC Engineering & Consulting, In
0606346-08	Se: ppm Diss Selenium 6010	G	212				MACTEC Engineering & Consulting, In
0606346-08	Zn: ppm Diss Zinc 6010	G	213				MACTEC Engineering & Consulting, In
0606346-09	Ag: ppm Diss Silver 6010	G	214				MACTEC Engineering & Consulting, In
0606346-09	Ba: ppm Diss Barium 6010	G	215				MACTEC Engineering & Consulting, In
0606346-09	Be: ppm Diss Beryllium 6010	G	216				MACTEC Engineering & Consulting, In
0606346-09	Cd: ppm Diss Cadmium 6010	G	217				MACTEC Engineering & Consulting, In
0606346-09	Cr: ppm Diss Chromium 6010	G	218				MACTEC Engineering & Consulting, In
0606346-09	Cu: ppm Diss Copper 6010	G	219				MACTEC Engineering & Consulting, In
0606346-09	Ni: ppm Diss Nickel 6010	G	220				MACTEC Engineering & Consulting, In
0606346-09	Se: ppm Diss Selenium 6010	G	221				MACTEC Engineering & Consulting, In
0606346-09	Zn: ppm Diss Zinc 6010	G	222				MACTEC Engineering & Consulting, In
0606346-10	Ag: ppm Diss Silver 6010	G	223				MACTEC Engineering & Consulting, In
0606346-10	Ba: ppm Diss Barium 6010	G	224				MACTEC Engineering & Consulting, In
0606346-10	Be: ppm Diss Beryllium 6010	G	225				MACTEC Engineering & Consulting, In
0606346-10	Cd: ppm Diss Cadmium 6010	G	226				MACTEC Engineering & Consulting, In
0606346-10	Cr: ppm Diss Chromium 6010	G	227				MACTEC Engineering & Consulting, In
0606346-10	Cu: ppm Diss Copper 6010	G	228				MACTEC Engineering & Consulting, In
0606346-10	Ni: ppm Diss Nickel 6010	G	229				MACTEC Engineering & Consulting, In
0606346-10	Se: ppm Diss Selenium 6010	G	230				MACTEC Engineering & Consulting, In
0606346-10	Zn: ppm Diss Zinc 6010	G	231				MACTEC Engineering & Consulting, In

Samples Loaded By

Date

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Data Processed By

Date

## ANALYSIS SEQUENCE

BPG0205

Instrument: ICP2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606346-11	Ag: ppm Diss Silver 6010	G	232				MACTEC Engineering & Consulting, In
0606346-11	Ba: ppm Diss Barium 6010	G	233				MACTEC Engineering & Consulting, In
0606346-11	Be: ppm Diss Beryllium 6010	G	234				MACTEC Engineering & Consulting, In
0606346-11	Cd: ppm Diss Cadmium 6010	G	235				MACTEC Engineering & Consulting, In
0606346-11	Cr: ppm Diss Chromium 6010	G	236				MACTEC Engineering & Consulting, In
0606346-11	Cu: ppm Diss Copper 6010	G	237				MACTEC Engineering & Consulting, In
0606346-11	Ni: ppm Diss Nickel 6010	G	238				MACTEC Engineering & Consulting, In
0606346-11	Se: ppm Diss Selenium 6010	G	239				MACTEC Engineering & Consulting, In
0606346-11	Zn: ppm Diss Zinc 6010	G	240				MACTEC Engineering & Consulting, In
0606346-13	Ag: ppm Diss Silver 6010	A	241				MACTEC Engineering & Consulting, In
0606346-13	Ba: ppm Diss Barium 6010	A	242				MACTEC Engineering & Consulting, In
0606346-13	Be: ppm Diss Beryllium 6010	A	243				MACTEC Engineering & Consulting, In
0606346-13	Ag: ppm Silver 6010	A	244				MACTEC Engineering & Consulting, In
0606346-13	Ba: ppm Barium 6010	A	245				MACTEC Engineering & Consulting, In
0606346-13	Be: ppm Beryllium 6010	A	246				MACTEC Engineering & Consulting, In
0606346-13	Ca: Calcium 6010 NR	A	247				MACTEC Engineering & Consulting, In
0606346-13	Cd: ppm Cadmium 6010	A	248				MACTEC Engineering & Consulting, In
0606346-13	Cd: ppm Diss Cadmium 6010	A	249				MACTEC Engineering & Consulting, In
0606346-13	Cr: ppm Chromium 6010	A	250				MACTEC Engineering & Consulting, In
0606346-13	Cr: ppm Diss Chromium 6010	A	251				MACTEC Engineering & Consulting, In
0606346-13	Cu: ppm Copper 6010	A	252				MACTEC Engineering & Consulting, In
0606346-13	Cu: ppm Diss Copper 6010	A	253				MACTEC Engineering & Consulting, In
0606346-13	Mg: Magnesium 6010 NR	A	254				MACTEC Engineering & Consulting, In
0606346-13	Ni: ppm Diss Nickel 6010	A	255				MACTEC Engineering & Consulting, In
0606346-13	Ni: ppm Nickel 6010	A	256				MACTEC Engineering & Consulting, In
0606346-13	Se: ppm Diss Selenium 6010	A	257				MACTEC Engineering & Consulting, In
0606346-13	Se: ppm Selenium 6010	A	258				MACTEC Engineering & Consulting, In
0606346-13	Zn: ppm Diss Zinc 6010	A	259				MACTEC Engineering & Consulting, In
0606346-13	Zn: ppm Zinc 6010	A	260				MACTEC Engineering & Consulting, In
0606346-14	Ag: ppm Diss Silver 6010	A	261				MACTEC Engineering & Consulting, In
0606346-14	Ag: ppm Silver 6010	A	262				MACTEC Engineering & Consulting, In
0606346-14	Ba: ppm Barium 6010	A	263				MACTEC Engineering & Consulting, In
0606346-14	Ba: ppm Diss Barium 6010	A	264				MACTEC Engineering & Consulting, In

Samples Loaded By

Date

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Data Processed By

Date

## ANALYSIS SEQUENCE

BPG0205

Instrument: ICP2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606346-14	Be: ppm Beryllium 6010	A	265				MACTEC Engineering & Consulting, In
0606346-14	Be: ppm Diss Beryllium 6010	A	266				MACTEC Engineering & Consulting, In
0606346-14	Ca: Calcium 6010 NR	A	267				MACTEC Engineering & Consulting, In
0606346-14	Cd: ppm Cadmium 6010	A	268				MACTEC Engineering & Consulting, In
0606346-14	Cd: ppm Diss Cadmium 6010	A	269				MACTEC Engineering & Consulting, In
0606346-14	Cr: ppm Chromium 6010	A	270				MACTEC Engineering & Consulting, In
0606346-14	Cr: ppm Diss Chromium 6010	A	271				MACTEC Engineering & Consulting, In
0606346-14	Cu: ppm Copper 6010	A	272				MACTEC Engineering & Consulting, In
0606346-14	Cu: ppm Diss Copper 6010	A	273				MACTEC Engineering & Consulting, In
0606346-14	Mg: Magnesium 6010 NR	A	274				MACTEC Engineering & Consulting, In
0606346-14	Ni: ppm Diss Nickel 6010	A	275				MACTEC Engineering & Consulting, In
0606346-14	Ni: ppm Nickel 6010	A	276				MACTEC Engineering & Consulting, In
0606346-14	Se: ppm Diss Selenium 6010	A	277				MACTEC Engineering & Consulting, In
0606346-14	Se: ppm Selenium 6010	A	278				MACTEC Engineering & Consulting, In
0606346-14	Zn: ppm Diss Zinc 6010	A	279				MACTEC Engineering & Consulting, In
0606346-14	Zn: ppm Zinc 6010	A	280				MACTEC Engineering & Consulting, In
0606346-15	Ag: ppm Diss Silver 6010	A	281				MACTEC Engineering & Consulting, In
0606346-15	Ag: ppm Silver 6010	A	282				MACTEC Engineering & Consulting, In
0606346-15	Ba: ppm Barium 6010	A	283				MACTEC Engineering & Consulting, In
0606346-15	Ba: ppm Diss Barium 6010	A	284				MACTEC Engineering & Consulting, In
0606346-15	Be: ppm Beryllium 6010	A	285				MACTEC Engineering & Consulting, In
0606346-15	Be: ppm Diss Beryllium 6010	A	286				MACTEC Engineering & Consulting, In
0606346-15	Ca: Calcium 6010 NR	A	287				MACTEC Engineering & Consulting, In
0606346-15	Cd: ppm Cadmium 6010	A	288				MACTEC Engineering & Consulting, In
0606346-15	Cd: ppm Diss Cadmium 6010	A	289				MACTEC Engineering & Consulting, In
0606346-15	Cr: ppm Chromium 6010	A	290				MACTEC Engineering & Consulting, In
0606346-15	Cr: ppm Diss Chromium 6010	A	291				MACTEC Engineering & Consulting, In
0606346-15	Cu: ppm Copper 6010	A	292				MACTEC Engineering & Consulting, In
0606346-15	Cu: ppm Diss Copper 6010	A	293				MACTEC Engineering & Consulting, In
0606346-15	Mg: Magnesium 6010 NR	A	294				MACTEC Engineering & Consulting, In
0606346-15	Ni: ppm Diss Nickel 6010	A	295				MACTEC Engineering & Consulting, In
0606346-15	Ni: ppm Nickel 6010	A	296				MACTEC Engineering & Consulting, In
0606346-15	Se: ppm Diss Selenium 6010	A	297				MACTEC Engineering & Consulting, In

Samples Loaded By

Date

Data Processed By

Date



## ANALYSIS SEQUENCE

BPG0205

Instrument: ICP2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606346-15	Se: ppm Selenium 6010	A	298				MACTEC Engineering & Consulting, Inc
0606346-15	Zn: ppm Diss Zinc 6010	A	299				MACTEC Engineering & Consulting, Inc
0606346-15	Zn: ppm Zinc 6010	A	300				MACTEC Engineering & Consulting, Inc
BPG0205-SRD1	QC		301				
BPG0205-SRD2	QC		302				
BPG0205-SRD3	QC		303				
BPG0205-SRD4	QC		304				
BPG0205-IFA2	QC		305		6F13074		
BPG0205-IFB2	QC		306		6F13075		
BPG0205-CCV6	QC		307		6F22006		
BPG0205-CCV7	QC		308		6F22006		
BPG0205-CCV8	QC		309		6F22006		
BPG0205-CCV9	QC		310		6F22006		
BPG0205-CCVA	QC		311		6F22006		
BPG0205-CCVB	QC		312		6F22006		
BPG0205-CCB6	QC		313				
BPG0205-CCB7	QC		314				
BPG0205-CCB8	QC		315				
BPG0205-CCB9	QC		316				
BPG0205-CCBA	QC		317				
BPG0205-CCBB	QC		318				

Samples Loaded By

Date

Data Processed By

Date

Seq.	Loc.	Sample ID
1	1	Calib Blank 1
2	2	Calib Std 1
3	3	Calib Std 2
4	4	Calib Std 3
5	3	STD2
6	5	ICV
7	1	ICCB
8	6	CRI1
9	7	CRI2
10	8	CRI3
11	106	ICSA
12	105	ICSAB
13	3	CCV
14	1	ICCB
15	9	BF62206-BLK1
16	10	BF62206-BS1
17	11	BF62206-BSD1
18	12	0606316-04
19	13	0606323-01
20	14	0606328-01
21	15	0606341-01DIS
22	16	0606341-02DIS
23	17	0606341-03DIS
24	18	0606341-01
25	3	CCV
26	1	ICCB
27	19	0606341-02
28	20	0606341-03
29	21	0606346-01
30	22	BF62206-DUP1
31	23	BF62206-MS1
32	24	BF62206-SD1
33	25	BF62206-PDS1
34	26	0606346-02
35	27	0606346-03
36	28	0606346-04
37	3	CCV
38	1	ICCB
39	29	0606346-05
40	30	0606346-06
41	31	0606346-07
42	32	0606346-08
43	33	0606346-09
44	34	0606346-10
45	35	0606346-11
46	36	BF62206-DUP2
47	37	BF62206-MS2
48	38	BF62206-SD2
49	3	CCV
50	1	ICCB
51	39	BF62206-PDS2
52	40	BF62207-BLK1
53	41	BF62207-BS1
54	42	BF62207-BSD1
55	43	0606346-12
56	44	0606346-13

Ag 0.005  
 Al 0.05  
 As 0.01  
 Ba 0.01  
 Be 0.001  
 Cd 0.005  
 Cr 0.01  
 Cu 0.01  
 Fe 0.05  
 Mg 0.1  
 Ni 0.01  
 Pb 0.01  
 Sb 0.01  
 Se 0.02  
 Ti 0.1  
 Zn 0.01  
 Ca 0.1

Method : everythingx

Seq.	Loc.		Sample ID
57	45	⊕	0606346-14
58	46	⊕	0606346-15
59	47	⊕	0606346-01DIS
60	48	⊕	0606346-02DIS
61	3	QC	CCV
62	1	QC	ICCB
63	49	⊕	0606346-03DIS
64	50	⊕	0606346-04DIS
65	51	⊕	0606346-05DIS
66	52	⊕	0606346-06DIS
67	53	✓	BF62207-DUP1
68	54	✓	BF62207-MS1
69	55	✓	BF62207-SD1
70	56	✓	BF62207-PDS1
71	57	⊕	0606346-07DIS
72	58	⊕	0606346-08DIS
73	3	QC	CCV
74	1	QC	ICCB
75	59	⊕	0606346-09DIS
76	60	⊕	0606346-10DIS
77	61	⊕	0606346-11DIS
78	62	⊕	0606346-12DIS
79	63	⊕	0606346-13DIS
80	64	⊕	0606346-14DIS
81	65	⊕	0606346-15DIS
82	66	✓	BF62207-DUP2
83	67	✓	BF62207-MS2
84	68	✓	BF62207-SD2
85	3	QC	CCV
86	1	QC	ICCB
87	69	✓	BF62207-PDS2
88	70	⊕	060622FILTBLK
89	3	QC	CCV
90	1	QC	ICCB
91	106	QC	ICSA
92	105	QC	ICSAB
93	0	⊕	WASH

## Method Description: Everthing

Sequence No.: 1  
 Sample ID: Calib Blank 1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 1  
 Date Collected: 6/22/2006 3:44:57 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: Calib Blank 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Y 360.073	2441830.1	2441830.1			15:46:28
1	Ag 328.068†	-666.3	-667.3	[0.00]	mg/L	15:46:33
1	Al 237.313†	-298.0	-298.5	[0.00]	mg/L	15:46:54
1	As 188.979†	0.3	0.3	[0.00]	mg/L	15:46:54
1	B 182.528†	-37.8	-37.9	[0.00]	mg/L	15:46:54
1	Ba 233.527†	-144.2	-144.4	[0.00]	mg/L	15:46:54
1	Be 313.107†	5117.3	5125.3	[0.00]	mg/L	15:46:33
1	Ca 315.886†	3038.5	3043.3	[0.00]	mg/L	15:46:33
1	Cd 228.802†	401.7	402.4	[0.00]	mg/L	15:46:54
1	Co 228.616†	-397.0	-397.6	[0.00]	mg/L	15:46:54
1	Cr 267.716†	1839.6	1842.5	[0.00]	mg/L	15:46:33
1	Cu 324.752†	1435.8	1438.0	[0.00]	mg/L	15:46:33
1	Fe 238.204†	980.1	981.6	[0.00]	mg/L	15:46:54
1	Fe 234.349†	232.3	232.6	[0.00]	mg/L	15:46:54
1	Mg 279.077†	-14.8	-14.8	[0.00]	mg/L	15:46:33
1	Mn 257.610†	859.7	861.0	[0.00]	mg/L	15:46:33
1	Mo 202.031†	3.4	3.4	[0.00]	mg/L	15:46:54
1	Na 330.237†	1182.1	1184.0	[0.00]	mg/L	15:46:33
1	Ni 231.604†	367.4	368.0	[0.00]	mg/L	15:46:54
1	Pb 220.353†	-123.8	-124.0	[0.00]	mg/L	15:46:54
1	Sb 206.836†	77.7	77.8	[0.00]	mg/L	15:46:54
1	Se 196.026†	-9.6	-9.6	[0.00]	mg/L	15:46:54
1	Sn 189.927†	77.6	77.7	[0.00]	mg/L	15:46:54
1	Ti 337.279†	914.2	915.6	[0.00]	mg/L	15:46:33
1	Tl 190.801†	-7.9	-7.9	[0.00]	mg/L	15:46:54
1	V 292.402†	2461.4	2465.3	[0.00]	mg/L	15:46:33
1	Zn 213.857†	955.5	957.0	[0.00]	mg/L	15:46:54
2	Y 360.073	2449461.0	2449461.0			15:46:59
2	Ag 328.068†	-700.4	-699.3	[0.00]	mg/L	15:47:05
2	Al 237.313†	-337.8	-337.3	[0.00]	mg/L	15:47:25
2	As 188.979†	1.6	1.6	[0.00]	mg/L	15:47:25
2	B 182.528†	-29.5	-29.4	[0.00]	mg/L	15:47:25
2	Ba 233.527†	-166.0	-165.7	[0.00]	mg/L	15:47:25
2	Be 313.107†	5143.9	5135.9	[0.00]	mg/L	15:47:05
2	Ca 315.886†	3145.3	3140.4	[0.00]	mg/L	15:47:05
2	Cd 228.802†	381.7	381.1	[0.00]	mg/L	15:47:25
2	Co 228.616†	-390.1	-389.5	[0.00]	mg/L	15:47:25
2	Cr 267.716†	1685.3	1682.6	[0.00]	mg/L	15:47:05
2	Cu 324.752†	1476.9	1474.6	[0.00]	mg/L	15:47:05
2	Fe 238.204†	984.9	983.4	[0.00]	mg/L	15:47:25
2	Fe 234.349†	216.3	216.0	[0.00]	mg/L	15:47:25
2	Mg 279.077†	21.7	21.7	[0.00]	mg/L	15:47:05
2	Mn 257.610†	839.0	837.7	[0.00]	mg/L	15:47:05
2	Mo 202.031†	12.6	12.6	[0.00]	mg/L	15:47:25
2	Na 330.237†	1134.9	1133.1	[0.00]	mg/L	15:47:05
2	Ni 231.604†	356.1	355.6	[0.00]	mg/L	15:47:25
2	Pb 220.353†	-118.0	-117.8	[0.00]	mg/L	15:47:25
2	Sb 206.836†	82.1	82.0	[0.00]	mg/L	15:47:25
2	Se 196.026†	-7.3	-7.3	[0.00]	mg/L	15:47:25
2	Sn 189.927†	73.7	73.6	[0.00]	mg/L	15:47:25
2	Ti 337.279†	948.9	947.4	[0.00]	mg/L	15:47:05
2	Tl 190.801†	-15.5	-15.4	[0.00]	mg/L	15:47:25
2	V 292.402†	2458.3	2454.5	[0.00]	mg/L	15:47:05
2	Zn 213.857†	955.9	954.4	[0.00]	mg/L	15:47:25

Mean Data: Calib Blank 1

Mean Corrected

Calib

Analyte	Intensity	Std.Dev.	RSD	Conc.	Units
Y 360.073	2445645.6	5395.84	0.22%		
Ag 328.068†	-683.3	22.65	3.31%	[0.00]	mg/L
Al 237.313†	-317.9	27.46	8.64%	[0.00]	mg/L
As 188.979†	0.9	0.96	102.02%	[0.00]	mg/L
B 182.528†	-33.6	5.98	17.79%	[0.00]	mg/L
Ba 233.527†	-155.1	15.07	9.71%	[0.00]	mg/L
Be 313.107†	5130.6	7.48	0.15%	[0.00]	mg/L
Ca 315.886†	3091.9	68.68	2.22%	[0.00]	mg/L
Cd 228.802†	391.7	15.03	3.84%	[0.00]	mg/L
Co 228.616†	-393.5	5.75	1.46%	[0.00]	mg/L
Cr 267.716†	1762.6	113.01	6.41%	[0.00]	mg/L
Cu 324.752†	1456.3	25.86	1.78%	[0.00]	mg/L
Fe 238.204†	982.5	1.25	0.13%	[0.00]	mg/L
Fe 234.349†	224.3	11.79	5.26%	[0.00]	mg/L
Mg 279.077†	3.4	25.79	750.18%	[0.00]	mg/L
Mn 257.610†	849.4	16.49	1.94%	[0.00]	mg/L
Mo 202.031†	8.0	6.49	81.52%	[0.00]	mg/L
Na 330.237†	1158.5	35.94	3.10%	[0.00]	mg/L
Ni 231.604†	361.8	8.76	2.42%	[0.00]	mg/L
Pb 220.353†	-120.9	4.40	3.64%	[0.00]	mg/L
Sb 206.836†	79.9	2.97	3.72%	[0.00]	mg/L
Se 196.026†	-8.4	1.62	19.15%	[0.00]	mg/L
Sn 189.927†	75.7	2.89	3.82%	[0.00]	mg/L
Ti 337.279†	931.5	22.49	2.41%	[0.00]	mg/L
Tl 190.801†	-11.7	5.34	45.73%	[0.00]	mg/L
V 292.402†	2459.9	7.60	0.31%	[0.00]	mg/L
Zn 213.857†	955.7	1.78	0.19%	[0.00]	mg/L

Sequence No.: 2  
 Sample ID: Calib Std 1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 2  
 Date Collected: 6/22/2006 3:49:01 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: Calib Std 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Analysis Time
1	Y 360.073	2463137.3	2463137.3			15:50:33
1	Ag 328.068†	16110.2	16679.1	[0.0500]	mg/L	15:50:38
1	Al 237.313†	4207.9	4496.0	[0.5]	mg/L	15:50:38
1	As 188.979†	119.9	118.1	[0.1000]	mg/L	15:50:58
1	B 182.528†	93.9	126.9	[0.1000]	mg/L	15:50:58
1	Ba 233.527†	18530.7	18554.2	[0.1000]	mg/L	15:50:38
1	Be 313.107†	68837.1	63217.6	[0.0100]	mg/L	15:50:33
1	Ca 315.886†	153674.7	149491.5	[1.0000]	mg/L	15:50:38
1	Cd 228.802†	4498.6	4074.9	[0.0500]	mg/L	15:50:58
1	Co 228.616†	6904.0	7248.5	[0.1000]	mg/L	15:50:38
1	Cr 267.716†	17195.2	15310.5	[0.1000]	mg/L	15:50:38
1	Cu 324.752†	19758.8	18162.2	[0.1000]	mg/L	15:50:38
1	Fe 238.204†	65656.2	64207.5	[0.5]	mg/L	15:50:38
1	Fe 234.349†	21156.8	20782.3	[0.5]	mg/L	15:50:38
1	Mg 279.077†	22226.7	22065.4	[1.0000]	mg/L	15:50:38
1	Mn 257.610†	102978.8	101398.2	[0.1000]	mg/L	15:50:38
1	Mo 202.031†	1348.5	1330.9	[0.1000]	mg/L	15:50:58
1	Na 330.237†	3229.9	2048.4	[5.0000]	mg/L	15:50:38
1	Ni 231.604†	6226.9	5820.9	[0.1000]	mg/L	15:50:38
1	Pb 220.353†	812.0	927.1	[0.1000]	mg/L	15:50:58
1	Sb 206.836†	450.2	367.1	[0.1000]	mg/L	15:50:58
1	Se 196.026†	135.8	143.3	[0.2000]	mg/L	15:50:58
1	Sn 189.927†	428.2	349.5	[0.1000]	mg/L	15:50:58
1	Ti 337.279†	76211.0	74738.3	[0.1000]	mg/L	15:50:38
1	Tl 190.801†	78.6	89.7	[0.1000]	mg/L	15:50:58
1	V 292.402†	27221.2	24568.0	[0.1000]	mg/L	15:50:38
1	Zn 213.857†	10423.6	9393.8	[0.1000]	mg/L	15:50:38
2	Y 360.073	2476185.8	2476185.8			15:51:04
2	Ag 328.068†	16328.0	16809.9	[0.0500]	mg/L	15:51:10
2	Al 237.313†	4299.4	4564.3	[0.5]	mg/L	15:51:10
2	As 188.979†	122.9	120.5	[0.1000]	mg/L	15:51:30

2	B 182.528†	88.0	120.5	[0.1000]	mg/L	15:51:30
2	Ba 233.527†	18622.1	18547.5	[0.1000]	mg/L	15:51:10
2	Be 313.107†	69310.2	63324.7	[0.0100]	mg/L	15:51:04
2	Ca 315.886†	154888.8	149886.6	[1.0000]	mg/L	15:51:10
2	Cd 228.802†	4521.2	4073.7	[0.0500]	mg/L	15:51:30
2	Co 228.616†	6959.2	7266.9	[0.1000]	mg/L	15:51:10
2	Cr 267.716†	17307.5	15331.5	[0.1000]	mg/L	15:51:10
2	Cu 324.752†	19958.9	18256.4	[0.1000]	mg/L	15:51:10
2	Fe 238.204†	66203.3	64404.3	[0.5]	mg/L	15:51:10
2	Fe 234.349†	21295.5	20808.5	[0.5]	mg/L	15:51:10
2	Mg 279.077†	22364.3	22085.0	[1.0000]	mg/L	15:51:10
2	Mn 257.610†	103794.3	101664.8	[0.1000]	mg/L	15:51:10
2	Mo 202.031†	1348.4	1323.8	[0.1000]	mg/L	15:51:30
2	Na 330.237†	3176.8	1979.1	[5.0000]	mg/L	15:51:10
2	Ni 231.604†	6218.9	5780.5	[0.1000]	mg/L	15:51:10
2	Pb 220.353†	812.2	923.1	[0.1000]	mg/L	15:51:30
2	Sb 206.836†	445.6	360.2	[0.1000]	mg/L	15:51:30
2	Se 196.026†	135.6	142.3	[0.2000]	mg/L	15:51:30
2	Sn 189.927†	428.4	347.5	[0.1000]	mg/L	15:51:30
2	Ti 337.279†	77123.5	75240.8	[0.1000]	mg/L	15:51:10
2	Tl 190.801†	83.6	94.3	[0.1000]	mg/L	15:51:30
2	V 292.402†	27386.7	24589.0	[0.1000]	mg/L	15:51:10
2	Zn 213.857†	10467.6	9382.8	[0.1000]	mg/L	15:51:10

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Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 360.073	2469661.6	9226.67	0.37%		
Ag 328.068†	16744.5	92.48	0.55%	[0.0500]	mg/L
Al 237.313†	4530.1	48.31	1.07%	[0.5]	mg/L
As 188.979†	119.3	1.71	1.43%	[0.1000]	mg/L
B 182.528†	123.7	4.52	3.65%	[0.1000]	mg/L
Ba 233.527†	18550.8	4.74	0.03%	[0.1000]	mg/L
Be 313.107†	63271.2	75.70	0.12%	[0.0100]	mg/L
Ca 315.886†	149689.0	279.37	0.19%	[1.0000]	mg/L
Cd 228.802†	4074.3	0.89	0.02%	[0.0500]	mg/L
Co 228.616†	7257.7	13.04	0.18%	[0.1000]	mg/L
Cr 267.716†	15321.0	14.83	0.10%	[0.1000]	mg/L
Cu 324.752†	18209.3	66.65	0.37%	[0.1000]	mg/L
Fe 238.204†	64305.9	139.20	0.22%	[0.5]	mg/L
Fe 234.349†	20795.4	18.56	0.09%	[0.5]	mg/L
Mg 279.077†	22075.2	13.86	0.06%	[1.0000]	mg/L
Mn 257.610†	101531.5	188.50	0.19%	[0.1000]	mg/L
Mo 202.031†	1327.4	5.05	0.38%	[0.1000]	mg/L
Na 330.237†	2013.7	49.03	2.43%	[5.0000]	mg/L
Ni 231.604†	5800.7	28.59	0.49%	[0.1000]	mg/L
Pb 220.353†	925.1	2.85	0.31%	[0.1000]	mg/L
Sb 206.836†	363.6	4.86	1.34%	[0.1000]	mg/L
Se 196.026†	142.8	0.66	0.46%	[0.2000]	mg/L
Sn 189.927†	348.5	1.39	0.40%	[0.1000]	mg/L
Ti 337.279†	74989.5	355.34	0.47%	[0.1000]	mg/L
Tl 190.801†	92.0	3.21	3.48%	[0.1000]	mg/L
V 292.402†	24578.5	14.85	0.06%	[0.1000]	mg/L
Zn 213.857†	9388.3	7.79	0.08%	[0.1000]	mg/L

Sequence No.: 3  
Sample ID: Calib Std 2  
Analyst:  
Initial Sample Wt:  
Dilution:

Autosampler Location: 3  
Date Collected: 6/22/2006 3:53:07 PM  
Data Type: Original  
Initial Sample Vol:  
Sample Prep Vol:

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Replicate Data: Calib Std 2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib Conc.	Units	Analysis Time
1	Y 360.073	2451824.6	2451824.6			15:54:40
1	Ag 328.068†	83888.0	84359.9	[0.2500]	mg/L	15:54:46
1	Al 237.313†	22238.5	22500.3	[2.5]	mg/L	15:54:46
1	As 188.979†	606.1	603.7	[0.5000]	mg/L	15:55:06

1	B 182.528†	588.7	620.9	[0.5000]	mg/L	15:55:06
1	Ba 233.527†	91966.8	91890.2	[0.5000]	mg/L	15:54:46
1	Be 313.107†	323444.0	317498.3	[0.0500]	mg/L	15:54:40
1	Ca 315.886†	756999.2	751999.6	[5.0000]	mg/L	15:54:40
1	Cd 228.802†	21448.4	21002.6	[0.2500]	mg/L	15:54:46
1	Co 228.616†	35758.3	36061.7	[0.5000]	mg/L	15:54:46
1	Cr 267.716†	78403.7	76443.6	[0.5000]	mg/L	15:54:46
1	Cu 324.752†	92122.1	90433.7	[0.5000]	mg/L	15:54:46
1	Fe 238.204†	321212.8	319420.8	[2.5]	mg/L	15:54:46
1	Fe 234.349†	103868.8	103382.7	[2.5]	mg/L	15:54:46
1	Mg 279.077†	111191.8	110908.2	[5.0000]	mg/L	15:54:46
1	Mn 257.610†	509349.1	507216.1	[0.5000]	mg/L	15:54:40
1	Mo 202.031†	6636.0	6611.3	[0.5000]	mg/L	15:55:06
1	Na 330.237†	12439.9	11250.0	[25.0000]	mg/L	15:54:46
1	Ni 231.604†	29406.6	28970.8	[0.5000]	mg/L	15:54:46
1	Pb 220.353†	4476.3	4585.9	[0.5000]	mg/L	15:55:06
1	Sb 206.836†	1906.5	1821.8	[0.5000]	mg/L	15:55:06
1	Se 196.026†	713.6	720.2	[1.0000]	mg/L	15:55:06
1	Sn 189.927†	1723.0	1643.0	[0.5000]	mg/L	15:55:06
1	Ti 337.279†	381644.0	379750.7	[0.5000]	mg/L	15:54:40
1	Tl 190.801†	472.9	483.3	[0.5000]	mg/L	15:55:06
1	V 292.402†	126495.5	123716.8	[0.5000]	mg/L	15:54:46
1	Zn 213.857†	48030.2	46953.5	[0.5000]	mg/L	15:54:46
2	Y 360.073	2470711.4	2470711.4			15:55:13
2	Ag 328.068†	83488.1	83324.4	[0.2500]	mg/L	15:55:18
2	Al 237.313†	22127.6	22221.0	[2.5]	mg/L	15:55:18
2	As 188.979†	609.7	602.6	[0.5000]	mg/L	15:55:38
2	B 182.528†	596.5	624.1	[0.5000]	mg/L	15:55:38
2	Ba 233.527†	91396.4	90624.2	[0.5000]	mg/L	15:55:18
2	Be 313.107†	325231.9	316801.8	[0.0500]	mg/L	15:55:13
2	Ca 315.886†	761236.1	750421.4	[5.0000]	mg/L	15:55:13
2	Cd 228.802†	21368.1	20759.6	[0.2500]	mg/L	15:55:18
2	Co 228.616†	35600.9	35633.2	[0.5000]	mg/L	15:55:18
2	Cr 267.716†	78073.5	75518.9	[0.5000]	mg/L	15:55:18
2	Cu 324.752†	92064.4	89674.1	[0.5000]	mg/L	15:55:18
2	Fe 238.204†	320040.9	315811.6	[2.5]	mg/L	15:55:18
2	Fe 234.349†	103501.4	102227.0	[2.5]	mg/L	15:55:18
2	Mg 279.077†	110505.3	109380.8	[5.0000]	mg/L	15:55:18
2	Mn 257.610†	512501.1	506452.3	[0.5000]	mg/L	15:55:13
2	Mo 202.031†	6683.5	6607.8	[0.5000]	mg/L	15:55:38
2	Na 330.237†	12254.8	10972.0	[25.0000]	mg/L	15:55:18
2	Ni 231.604†	29191.6	28533.6	[0.5000]	mg/L	15:55:18
2	Pb 220.353†	4503.5	4578.7	[0.5000]	mg/L	15:55:38
2	Sb 206.836†	1908.3	1809.1	[0.5000]	mg/L	15:55:38
2	Se 196.026†	720.9	722.0	[1.0000]	mg/L	15:55:38
2	Sn 189.927†	1718.0	1624.9	[0.5000]	mg/L	15:55:38
2	Ti 337.279†	384061.2	379233.3	[0.5000]	mg/L	15:55:13
2	Tl 190.801†	493.6	500.3	[0.5000]	mg/L	15:55:38
2	V 292.402†	125768.1	122032.3	[0.5000]	mg/L	15:55:18
2	Zn 213.857†	47926.2	46484.3	[0.5000]	mg/L	15:55:18

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**Mean Data: Calib Std 2**

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
Y 360.073	2461268.0	13354.98	0.54%		
Ag 328.068†	83842.2	732.16	0.87%	[0.2500]	mg/L
Al 237.313†	22360.7	197.55	0.88%	[2.5]	mg/L
As 188.979†	603.1	0.74	0.12%	[0.5000]	mg/L
B 182.528†	622.5	2.26	0.36%	[0.5000]	mg/L
Ba 233.527†	91257.2	895.16	0.98%	[0.5000]	mg/L
Be 313.107†	317150.0	492.49	0.16%	[0.0500]	mg/L
Ca 315.886†	751210.5	1116.00	0.15%	[5.0000]	mg/L
Cd 228.802†	20881.1	171.87	0.82%	[0.2500]	mg/L
Co 228.616†	35847.5	302.97	0.85%	[0.5000]	mg/L
Cr 267.716†	75981.2	653.86	0.86%	[0.5000]	mg/L
Cu 324.752†	90053.9	537.11	0.60%	[0.5000]	mg/L
Fe 238.204†	317616.2	2552.13	0.80%	[2.5]	mg/L
Fe 234.349†	102804.9	817.20	0.79%	[2.5]	mg/L
Mg 279.077†	110144.5	1080.02	0.98%	[5.0000]	mg/L
Mn 257.610†	506834.2	540.10	0.11%	[0.5000]	mg/L

Mo 202.031†	6609.5	2.51	0.04%	[0.5000] mg/L
Na 330.237†	11111.0	196.61	1.77%	[25.0000] mg/L
Ni 231.604†	28752.2	309.10	1.08%	[0.5000] mg/L
Pb 220.353†	4582.3	5.11	0.11%	[0.5000] mg/L
Sb 206.836†	1815.4	8.99	0.50%	[0.5000] mg/L
Se 196.026†	721.1	1.27	0.18%	[1.0000] mg/L
Sn 189.927†	1633.9	12.86	0.79%	[0.5000] mg/L
Ti 337.279†	379492.0	365.81	0.10%	[0.5000] mg/L
Tl 190.801†	491.8	12.01	2.44%	[0.5000] mg/L
V 292.402†	122874.6	1191.12	0.97%	[0.5000] mg/L
Zn 213.857†	46718.9	331.76	0.71%	[0.5000] mg/L

Sequence No.: 4  
 Sample ID: Calib Std 3  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 4  
 Date Collected: 6/22/2006 3:57:16 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: Calib Std 3

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Y 360.073	2474018.8	2474018.8		15:58:54
1	Ag 328.068†	169210.6	167953.3	[0.5000] mg/L	15:58:54
1	Al 237.313†	45051.2	44852.4	[5] mg/L	15:58:54
1	As 188.979†	1212.5	1197.7	[1.0000] mg/L	15:59:14
1	B 182.528†	1209.1	1228.8	[1.0000] mg/L	15:59:14
1	Ba 233.527†	183447.3	181498.5	[1.0000] mg/L	15:58:54
1	Be 313.107†	640313.6	627839.5	[0.1000] mg/L	15:58:54
1	Ca 315.886†	1502557.2	1482233.2	[10.0000] mg/L	15:58:54
1	Cd 228.802†	42358.5	41481.0	[0.5000] mg/L	15:58:54
1	Co 228.616†	71268.0	70844.2	[1.0000] mg/L	15:58:54
1	Cr 267.716†	154460.5	150926.5	[1.0000] mg/L	15:58:54
1	Cu 324.752†	184173.5	180605.0	[1.0000] mg/L	15:58:54
1	Fe 238.204†	638765.1	630457.0	[5] mg/L	15:58:54
1	Fe 234.349†	207346.8	204744.5	[5] mg/L	15:58:54
1	Mg 279.077†	222554.9	219999.1	[10.0000] mg/L	15:58:54
1	Mn 257.610†	1006637.2	994243.2	[1.0000] mg/L	15:58:54
1	Mo 202.031†	13200.6	13041.2	[1.0000] mg/L	15:59:14
1	Na 330.237†	25183.0	23735.7	[50.0000] mg/L	15:58:54
1	Ni 231.604†	57836.1	56811.0	[1.0000] mg/L	15:58:54
1	Pb 220.353†	9053.9	9071.0	[1.0000] mg/L	15:59:14
1	Sb 206.836†	3758.2	3635.2	[1.0000] mg/L	15:59:14
1	Se 196.026†	1430.5	1422.5	[2.0000] mg/L	15:59:14
1	Sn 189.927†	3287.7	3174.4	[1.0000] mg/L	15:59:14
1	Ti 337.279†	760796.2	751139.5	[1.0000] mg/L	15:58:54
1	Tl 190.801†	1067.4	1066.8	[1.0000] mg/L	15:59:14
1	V 292.402†	250278.3	244948.1	[1.0000] mg/L	15:58:54
1	Zn 213.857†	95086.3	93040.1	[1.0000] mg/L	15:58:54
2	Y 360.073	2467090.2	2467090.2		15:59:24
2	Ag 328.068†	169090.6	168304.1	[0.5000] mg/L	15:59:24
2	Al 237.313†	44952.6	44879.7	[5] mg/L	15:59:24
2	As 188.979†	1205.2	1193.8	[1.0000] mg/L	15:59:45
2	B 182.528†	1223.4	1246.5	[1.0000] mg/L	15:59:45
2	Ba 233.527†	183195.8	181758.5	[1.0000] mg/L	15:59:24
2	Be 313.107†	640042.7	629348.7	[0.1000] mg/L	15:59:24
2	Ca 315.886†	1501525.2	1485381.7	[10.0000] mg/L	15:59:24
2	Cd 228.802†	42426.7	41666.2	[0.5000] mg/L	15:59:24
2	Co 228.616†	71287.2	71061.1	[1.0000] mg/L	15:59:24
2	Cr 267.716†	154299.4	151195.6	[1.0000] mg/L	15:59:24
2	Cu 324.752†	183469.9	180418.9	[1.0000] mg/L	15:59:24
2	Fe 238.204†	638021.0	631492.6	[5] mg/L	15:59:24
2	Fe 234.349†	207082.5	205058.2	[5] mg/L	15:59:24
2	Mg 279.077†	222070.8	220137.1	[10.0000] mg/L	15:59:24
2	Mn 257.610†	1005979.2	996385.6	[1.0000] mg/L	15:59:24
2	Mo 202.031†	13235.7	13112.6	[1.0000] mg/L	15:59:45
2	Na 330.237†	25308.8	23930.3	[50.0000] mg/L	15:59:24
2	Ni 231.604†	57748.3	56884.6	[1.0000] mg/L	15:59:24
2	Pb 220.353†	9052.9	9095.1	[1.0000] mg/L	15:59:45
2	Sb 206.836†	3757.8	3645.3	[1.0000] mg/L	15:59:45



2	Se 196.026†	1437.7	1433.7	[2.0000]	mg/L	15:59:45
2	Sn 189.927†	3289.1	3184.9	[1.0000]	mg/L	15:59:45
2	Ti 337.279†	759779.9	752244.1	[1.0000]	mg/L	15:59:24
2	Tl 190.801†	1123.3	1125.2	[1.0000]	mg/L	15:59:45
2	V 292.402†	249976.4	245343.6	[1.0000]	mg/L	15:59:24
2	Zn 213.857†	95002.6	93221.1	[1.0000]	mg/L	15:59:24

## Mean Data: Calib Std 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 360.073	2470554.5	4899.29	0.20%		
Ag 328.068†	168128.7	248.04	0.15%	[0.5000]	mg/L
Al 237.313†	44866.1	19.31	0.04%	[5]	mg/L
As 188.979†	1195.7	2.71	0.23%	[1.0000]	mg/L
B 182.528†	1237.6	12.45	1.01%	[1.0000]	mg/L
Ba 233.527†	181628.5	183.82	0.10%	[1.0000]	mg/L
Be 313.107†	628594.1	1067.16	0.17%	[0.1000]	mg/L
Ca 315.886†	1483807.5	2226.28	0.15%	[10.0000]	mg/L
Cd 228.802†	41573.6	130.93	0.31%	[0.5000]	mg/L
Co 228.616†	70952.7	153.35	0.22%	[1.0000]	mg/L
Cr 267.716†	151061.1	190.29	0.13%	[1.0000]	mg/L
Cu 324.752†	180511.9	131.63	0.07%	[1.0000]	mg/L
Fe 238.204†	630974.8	732.33	0.12%	[5]	mg/L
Fe 234.349†	204901.4	221.76	0.11%	[5]	mg/L
Mg 279.077†	220068.1	97.58	0.04%	[10.0000]	mg/L
Mn 257.610†	995314.4	1514.88	0.15%	[1.0000]	mg/L
Mo 202.031†	13076.9	50.49	0.39%	[1.0000]	mg/L
Na 330.237†	23833.0	137.59	0.58%	[50.0000]	mg/L
Ni 231.604†	56847.8	52.00	0.09%	[1.0000]	mg/L
Pb 220.353†	9083.0	17.02	0.19%	[1.0000]	mg/L
Sb 206.836†	3640.2	7.12	0.20%	[1.0000]	mg/L
Se 196.026†	1428.1	7.87	0.55%	[2.0000]	mg/L
Sn 189.927†	3179.6	7.41	0.23%	[1.0000]	mg/L
Ti 337.279†	751691.8	781.11	0.10%	[1.0000]	mg/L
Tl 190.801†	1096.0	41.30	3.77%	[1.0000]	mg/L
V 292.402†	245145.9	279.69	0.11%	[1.0000]	mg/L
Zn 213.857†	93130.6	128.01	0.14%	[1.0000]	mg/L

## Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin, Calc Int	-71.5	336300	0.00000	0.999999	
Al 237.313	3	Lin, Calc Int	5.9	8967	0.00000	0.999997	
As 188.979	3	Lin, Calc Int	0.8	1197	0.00000	0.999988	
B 182.528	3	Lin, Calc Int	0.7	1238	0.00000	0.999995	
Ba 233.527	3	Lin, Calc Int	254.2	181500	0.00000	0.999996	
Be 313.107	3	Lin, Calc Int	711.8	6289000	0.00000	0.999989	
Ca 315.886	3	Lin, Calc Int	2306.5	148500	0.00000	0.999978	
Cd 228.802	3	Lin, Calc Int	-19.3	83260	0.00000	0.999994	
Co 228.616	3	Lin, Calc Int	140.9	70930	0.00000	0.999985	
Cr 267.716	3	Lin, Calc Int	178.9	151000	0.00000	0.999995	
Cu 324.752	3	Lin, Calc Int	32.6	180400	0.00000	0.999999	
Fe 238.204	3	Lin, Calc Int	930.8	126100	0.00000	0.999994	
Fe 234.349	3	Lin, Calc Int	201.1	40960	0.00000	0.999998	
Mg 279.077	3	Lin, Calc Int	50.8	22010	0.00000	1.000000	
Mn 257.610	3	Lin, Calc Int	2589.3	995800	0.00000	0.999954	
Mo 202.031	3	Lin, Calc Int	21.9	13080	0.00000	0.999984	
Na 330.237	3	Lin, Calc Int	-313.3	477.6	0.00000	0.999380	
Ni 231.604	3	Lin, Calc Int	112.3	56840	0.00000	0.999982	
Pb 220.353	3	Lin, Calc Int	15.0	9081	0.00000	0.999989	
Sb 206.836	3	Lin, Calc Int	-1.0	3640	0.00000	0.999999	
Se 196.026	3	Lin, Calc Int	1.3	714.6	0.00000	0.999986	
Sn 189.927	3	Lin, Calc Int	21.7	3172	0.00000	0.999884	
Ti 337.279	3	Lin, Calc Int	596.6	752400	0.00000	0.999986	
Tl 190.801	3	Lin, Calc Int	-18.2	1095	0.00000	0.998588	
V 292.402	3	Lin, Calc Int	84.3	245200	0.00000	0.999999	
Zn 213.857	3	Lin, Calc Int	61.9	93120	0.00000	0.999999	

Sequence No.: 5
Sample ID: STD2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/22/2006 4:01:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: STD2

Table with columns: Repl#, Analyte, Net Intensity, Corrected Intensity, Calib. Conc. Units, Sample Conc. Units, Analysis Time. Contains multiple rows of replicate data for various elements like Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Sn, Ti, Tl, V, Zn.

Mean Data: STD2

Summary table with columns: Analyte, Mean Corrected Intensity, Calib Conc. Units, Std.Dev., Sample Conc. Units, Std.Dev., RSD. Shows mean values for Y 360.073 and Ag 328.068t.

Al	237.313†	QC value within limits for Al 237.313	22498.6	2.487 mg/L	100.64%	0.0086	2.487 mg/L	0.0086	0.35%
As	188.979†	QC value within limits for As 188.979	607.5	0.5085 mg/L	99.49%	0.00197	0.5085 mg/L	0.00197	0.39%
B	182.528†	QC value within limits for B 182.528	633.9	0.5114 mg/L	101.69%	0.00742	0.5114 mg/L	0.00742	1.45%
Ba	233.527†	QC value within limits for Ba 233.527	91589.8	0.5028 mg/L	102.28%	0.00209	0.5028 mg/L	0.00209	0.42%
Be	313.107†	QC value within limits for Be 313.107	318210.0	0.0505 mg/L	100.56%	0.00010	0.0505 mg/L	0.00010	0.20%
Ca	315.886†	QC value within limits for Ca 315.886	752910.8	5.056 mg/L	101.03%	0.0089	5.056 mg/L	0.0089	0.18%
Cd	228.802†	QC value within limits for Cd 228.802	21012.6	0.2504 mg/L	101.12%	0.00130	0.2504 mg/L	0.00130	0.52%
Co	228.616†	QC value within limits for Co 228.616	36008.4	0.5042 mg/L	100.17%	0.00257	0.5042 mg/L	0.00257	0.51%
Cr	267.716†	QC value within limits for Cr 267.716	76469.6	0.5052 mg/L	100.84%	0.00267	0.5052 mg/L	0.00267	0.53%
Cu	324.752†	QC value within limits for Cu 324.752	90354.2	0.5009 mg/L	101.05%	0.00158	0.5009 mg/L	0.00158	0.31%
Fe	238.204†	QC value within limits for Fe 238.204	318853.1	2.521 mg/L	100.17%	0.0089	2.521 mg/L	0.0089	0.35%
Fe	234.349†	QC value within limits for Fe 234.349	103218.6	2.510 mg/L	100.85%	0.0107	2.510 mg/L	0.0107	0.43%
Mg	279.077†	QC value within limits for Mg 279.077	110485.9	5.015 mg/L	100.41%	0.0217	5.015 mg/L	0.0217	0.43%
Mn	257.610†	QC value within limits for Mn 257.610	508387.9	0.5080 mg/L	100.31%	0.00095	0.5080 mg/L	0.00095	0.19%
Mo	202.031†	QC value within limits for Mo 202.031	6650.1	0.5073 mg/L	101.60%	0.00378	0.5073 mg/L	0.00378	0.74%
Na	330.237†	QC value within limits for Na 330.237	11307.3	24.32 mg/L	101.46%	0.201	24.32 mg/L	0.201	0.83%
Ni	231.604†	QC value within limits for Ni 231.604	28870.6	0.5056 mg/L	97.29%	0.00244	0.5056 mg/L	0.00244	0.48%
Pb	220.353†	QC value within limits for Pb 220.353	4580.5	0.5050 mg/L	101.11%	0.00278	0.5050 mg/L	0.00278	0.55%
Sb	206.836†	QC value within limits for Sb 206.836	1822.5	0.4942 mg/L	100.99%	0.00370	0.4942 mg/L	0.00370	0.75%
Se	196.026†	QC value within limits for Se 196.026	726.3	1.015 mg/L	98.85%	0.0024	1.015 mg/L	0.0024	0.24%
Sn	189.927†	QC value within limits for Sn 189.927	1623.0	0.5060 mg/L	101.45%	0.00555	0.5060 mg/L	0.00555	1.10%
Ti	337.279†	QC value within limits for Ti 337.279	381360.0	0.5061 mg/L	101.20%	0.00047	0.5061 mg/L	0.00047	0.09%
Tl	190.801†	QC value within limits for Tl 190.801	562.0	0.5295 mg/L	101.22%	0.00978	0.5295 mg/L	0.00978	1.85%
V	292.402†	QC value greater than the upper limit for V 292.402	123420.6	0.5064 mg/L	105.89%	0.00168	0.5064 mg/L	0.00168	0.33%
Zn	213.857†	QC value within limits for Zn 213.857	46987.6	0.5008 mg/L	101.29%	0.00233	0.5008 mg/L	0.00233	0.47%

QC Failed. Continue with analysis.

Sequence No.: 6  
 Sample ID: ICV  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 5  
 Date Collected: 6/22/2006 4:05:32 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2469219.6	2469219.6			16:07:07
1	Ag 328.068†	84739.8	84614.0	0.2520 mg/L	0.2520 mg/L	16:07:12
1	Al 237.313†	22057.5	22164.8	2.450 mg/L	2.450 mg/L	16:07:12
1	As 188.979†	594.4	587.7	0.4919 mg/L	0.4919 mg/L	16:07:32
1	B 182.528†	586.4	614.4	0.4957 mg/L	0.4957 mg/L	16:07:32
1	Ba 233.527†	90194.6	89488.5	0.4913 mg/L	0.4913 mg/L	16:07:12
1	Be 313.107†	326414.8	318167.8	0.0505 mg/L	0.0505 mg/L	16:07:07

1	Ca	315.886†	760849.1	750493.2	5.040 mg/L	5.040 mg/L	16:07:07
1	Cd	228.802†	21562.9	20965.3	0.2499 mg/L	0.2499 mg/L	16:07:12
1	Co	228.616†	35312.4	35368.8	0.4952 mg/L	0.4952 mg/L	16:07:12
1	Cr	267.716†	78400.3	75889.2	0.5014 mg/L	0.5014 mg/L	16:07:12
1	Cu	324.752†	91710.7	89378.9	0.4955 mg/L	0.4955 mg/L	16:07:12
1	Fe	238.204†	322954.7	318888.9	2.521 mg/L	2.521 mg/L	16:07:12
1	Fe	234.349†	104376.5	103155.7	2.509 mg/L	2.509 mg/L	16:07:12
1	Mg	279.077†	108811.4	107769.1	4.892 mg/L	4.892 mg/L	16:07:12
1	Mn	257.610†	508477.3	502773.4	0.5024 mg/L	0.5024 mg/L	16:07:07
1	Mo	202.031†	6613.8	6542.7	0.4991 mg/L	0.4991 mg/L	16:07:32
1	Na	330.237†	12408.9	11131.9	23.96 mg/L	23.96 mg/L	16:07:12
1	Ni	231.604†	29269.5	28628.3	0.5013 mg/L	0.5013 mg/L	16:07:12
1	Pb	220.353†	4414.5	4493.3	0.4953 mg/L	0.4953 mg/L	16:07:32
1	Sb	206.836†	1881.3	1783.4	0.4836 mg/L	0.4836 mg/L	16:07:32
1	Se	196.026†	727.1	728.6	1.018 mg/L	1.018 mg/L	16:07:32
1	Sn	189.927†	1713.2	1621.2	0.5054 mg/L	0.5054 mg/L	16:07:32
1	Ti	337.279†	380354.7	375791.9	0.4987 mg/L	0.4987 mg/L	16:07:07
1	Tl	190.801†	520.0	526.7	0.4974 mg/L	0.4974 mg/L	16:07:32
1	V	292.402†	125179.8	121524.8	0.4987 mg/L	0.4987 mg/L	16:07:12
1	Zn	213.857†	48070.7	46656.0	0.4972 mg/L	0.4972 mg/L	16:07:12
2	Y	360.073	2463364.6	2463364.6			16:07:39
2	Ag	328.068†	85822.8	85888.8	0.2557 mg/L	0.2557 mg/L	16:07:45
2	Al	237.313†	22344.0	22501.2	2.488 mg/L	2.488 mg/L	16:07:45
2	As	188.979†	595.5	590.3	0.4940 mg/L	0.4940 mg/L	16:08:05
2	B	182.528†	586.1	615.5	0.4966 mg/L	0.4966 mg/L	16:08:05
2	Ba	233.527†	90956.3	90457.1	0.4966 mg/L	0.4966 mg/L	16:07:45
2	Be	313.107†	326359.3	318881.2	0.0506 mg/L	0.0506 mg/L	16:07:39
2	Ca	315.886†	759491.3	750936.4	5.043 mg/L	5.043 mg/L	16:07:39
2	Cd	228.802†	21772.2	21223.9	0.2530 mg/L	0.2530 mg/L	16:07:45
2	Co	228.616†	35663.0	35800.0	0.5012 mg/L	0.5012 mg/L	16:07:45
2	Cr	267.716†	79041.9	76710.8	0.5068 mg/L	0.5068 mg/L	16:07:45
2	Cu	324.752†	93653.2	91523.2	0.5073 mg/L	0.5073 mg/L	16:07:45
2	Fe	238.204†	325695.1	322369.9	2.549 mg/L	2.549 mg/L	16:07:45
2	Fe	234.349†	105224.7	104243.5	2.535 mg/L	2.535 mg/L	16:07:45
2	Mg	279.077†	109459.0	108668.3	4.933 mg/L	4.933 mg/L	16:07:45
2	Mn	257.610†	507854.7	503352.4	0.5029 mg/L	0.5029 mg/L	16:07:39
2	Mo	202.031†	6624.6	6569.0	0.5011 mg/L	0.5011 mg/L	16:08:05
2	Na	330.237†	12509.6	11261.1	24.23 mg/L	24.23 mg/L	16:07:45
2	Ni	231.604†	29591.4	29016.8	0.5081 mg/L	0.5081 mg/L	16:07:45
2	Pb	220.353†	4399.3	4488.6	0.4948 mg/L	0.4948 mg/L	16:08:05
2	Sb	206.836†	1887.5	1794.1	0.4864 mg/L	0.4864 mg/L	16:08:05
2	Se	196.026†	715.4	718.7	1.004 mg/L	1.004 mg/L	16:08:05
2	Sn	189.927†	1708.0	1620.1	0.5051 mg/L	0.5051 mg/L	16:08:05
2	Ti	337.279†	380404.3	376736.5	0.4999 mg/L	0.4999 mg/L	16:07:39
2	Tl	190.801†	533.8	541.7	0.5109 mg/L	0.5109 mg/L	16:08:05
2	V	292.402†	126543.8	123173.7	0.5054 mg/L	0.5054 mg/L	16:07:45
2	Zn	213.857†	48434.9	47130.8	0.5023 mg/L	0.5023 mg/L	16:07:45

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2466292.1				4140.16	0.17%
Ag 328.068†	85251.4	0.2538 mg/L	0.00268	0.2538 mg/L	0.00268	1.06%
QC value within limits for Ag 328.068		Recovery = 101.54%				
Al 237.313†	22333.0	2.469 mg/L	0.0264	2.469 mg/L	0.0264	1.07%
QC value within limits for Al 237.313		Recovery = 98.75%				
As 188.979†	589.0	0.4930 mg/L	0.00150	0.4930 mg/L	0.00150	0.30%
QC value within limits for As 188.979		Recovery = 98.59%				
B 182.528†	615.0	0.4961 mg/L	0.00064	0.4961 mg/L	0.00064	0.13%
QC value within limits for B 182.528		Recovery = 99.22%				
Ba 233.527†	89972.8	0.4939 mg/L	0.00377	0.4939 mg/L	0.00377	0.76%
QC value within limits for Ba 233.527		Recovery = 98.78%				
Be 313.107†	318524.5	0.0506 mg/L	0.00008	0.0506 mg/L	0.00008	0.16%
QC value within limits for Be 313.107		Recovery = 101.13%				
Ca 315.886†	750714.8	5.041 mg/L	0.0021	5.041 mg/L	0.0021	0.04%
QC value within limits for Ca 315.886		Recovery = 100.83%				
Cd 228.802†	21094.6	0.2515 mg/L	0.00219	0.2515 mg/L	0.00219	0.87%
QC value within limits for Cd 228.802		Recovery = 100.59%				
Co 228.616†	35584.4	0.4982 mg/L	0.00429	0.4982 mg/L	0.00429	0.86%
QC value within limits for Co 228.616		Recovery = 99.64%				

Cr 267.716†	76300.0	0.5041 mg/L	0.00385	0.5041 mg/L	0.00385	0.76%
QC value within limits for Cr 267.716 Recovery = 100.82%						
Cu 324.752†	90451.1	0.5014 mg/L	0.00841	0.5014 mg/L	0.00841	1.68%
QC value within limits for Cu 324.752 Recovery = 100.28%						
Fe 238.204†	320629.4	2.535 mg/L	0.0195	2.535 mg/L	0.0195	0.77%
QC value within limits for Fe 238.204 Recovery = 101.41%						
Fe 234.349†	103699.6	2.522 mg/L	0.0187	2.522 mg/L	0.0187	0.74%
QC value within limits for Fe 234.349 Recovery = 100.88%						
Mg 279.077†	108218.7	4.912 mg/L	0.0289	4.912 mg/L	0.0289	0.59%
QC value within limits for Mg 279.077 Recovery = 98.24%						
Mn 257.610†	503062.9	0.5027 mg/L	0.00041	0.5027 mg/L	0.00041	0.08%
QC value within limits for Mn 257.610 Recovery = 100.53%						
Mo 202.031†	6555.9	0.5001 mg/L	0.00143	0.5001 mg/L	0.00143	0.29%
QC value within limits for Mo 202.031 Recovery = 100.02%						
Na 330.237†	11196.5	24.09 mg/L	0.191	24.09 mg/L	0.191	0.79%
QC value within limits for Na 330.237 Recovery = 96.37%						
Ni 231.604†	28822.5	0.5047 mg/L	0.00483	0.5047 mg/L	0.00483	0.96%
QC value within limits for Ni 231.604 Recovery = 100.94%						
Pb 220.353†	4490.9	0.4951 mg/L	0.00035	0.4951 mg/L	0.00035	0.07%
QC value within limits for Pb 220.353 Recovery = 99.01%						
Sb 206.836†	1788.7	0.4850 mg/L	0.00202	0.4850 mg/L	0.00202	0.42%
QC value within limits for Sb 206.836 Recovery = 97.00%						
Se 196.026†	723.7	1.011 mg/L	0.0098	1.011 mg/L	0.0098	0.97%
QC value within limits for Se 196.026 Recovery = 101.08%						
Sn 189.927†	1620.6	0.5052 mg/L	0.00025	0.5052 mg/L	0.00025	0.05%
QC value within limits for Sn 189.927 Recovery = 101.05%						
Ti 337.279†	376264.2	0.4993 mg/L	0.00089	0.4993 mg/L	0.00089	0.18%
QC value within limits for Ti 337.279 Recovery = 99.86%						
Tl 190.801†	534.2	0.5041 mg/L	0.00957	0.5041 mg/L	0.00957	1.90%
QC value within limits for Tl 190.801 Recovery = 100.83%						
V 292.402†	122349.2	0.5021 mg/L	0.00478	0.5021 mg/L	0.00478	0.95%
QC value within limits for V 292.402 Recovery = 100.41%						
Zn 213.857†	46893.4	0.4997 mg/L	0.00357	0.4997 mg/L	0.00357	0.71%
QC value within limits for Zn 213.857 Recovery = 99.95%						

All analyte(s) passed QC.

Sequence No.: 7  
 Sample ID: ICCB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 1  
 Date Collected: 6/22/2006 4:09:43 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2461277.2	2461277.2			16:11:14
1	Ag 328.068†	-600.5	86.7	0.0005 mg/L	0.0005 mg/L	16:11:19
1	Al 237.313†	-299.7	20.1	0.0016 mg/L	0.0016 mg/L	16:11:40
1	As 188.979†	3.8	2.8	0.0016 mg/L	0.0016 mg/L	16:11:40
1	B 182.528†	-17.3	16.4	0.0127 mg/L	0.0127 mg/L	16:11:40
1	Ba 233.527†	-139.2	16.8	-0.0013 mg/L	-0.0013 mg/L	16:11:40
1	Be 313.107†	5278.7	114.6	-0.0001 mg/L	-0.0001 mg/L	16:11:19
1	Ca 315.886†	3163.6	51.7	-0.0152 mg/L	-0.0152 mg/L	16:11:19
1	Cd 228.802†	386.1	-8.1	0.0001 mg/L	0.0001 mg/L	16:11:40
1	Co 228.616†	-395.2	0.9	-0.0020 mg/L	-0.0020 mg/L	16:11:40
1	Cr 267.716†	1791.1	17.2	-0.0011 mg/L	-0.0011 mg/L	16:11:19
1	Cu 324.752†	1599.0	132.5	0.0006 mg/L	0.0006 mg/L	16:11:19
1	Fe 238.204†	1124.1	134.4	-0.0063 mg/L	-0.0063 mg/L	16:11:40
1	Fe 234.349†	273.8	47.7	-0.0037 mg/L	-0.0037 mg/L	16:11:40
1	Mg 279.077†	7.5	4.0	-0.0021 mg/L	-0.0021 mg/L	16:11:19
1	Mn 257.610†	1030.3	174.4	-0.0024 mg/L	-0.0024 mg/L	16:11:19
1	Mo 202.031†	45.6	37.4	0.0012 mg/L	0.0012 mg/L	16:11:40
1	Na 330.237†	1192.7	26.6	0.7116 mg/L	0.7116 mg/L	16:11:19
1	Ni 231.604†	380.5	16.3	-0.0017 mg/L	-0.0017 mg/L	16:11:40
1	Pb 220.353†	-117.4	4.3	-0.0012 mg/L	-0.0012 mg/L	16:11:40
1	Sb 206.836†	84.5	4.1	0.0014 mg/L	0.0014 mg/L	16:11:40
1	Se 196.026†	-2.7	5.7	0.0062 mg/L	0.0062 mg/L	16:11:40
1	Sn 189.927†	71.1	-5.0	-0.0084 mg/L	-0.0084 mg/L	16:11:40
1	Ti 337.279†	1204.0	264.9	-0.0004 mg/L	-0.0004 mg/L	16:11:19

1	Tl 190.801†	24.5	36.0	0.0495 mg/L	0.0495 mg/L	16:11:40
1	V 292.402†	2379.9	-95.1	-0.0007 mg/L	-0.0007 mg/L	16:11:19
1	Zn 213.857†	1013.2	51.0	-0.0001 mg/L	-0.0001 mg/L	16:11:40
2	Y 360.073	2447957.1	2447957.1			16:11:45
2	Ag 328.068†	-641.0	42.9	0.0003 mg/L	0.0003 mg/L	16:11:50
2	Al 237.313†	-301.4	16.8	0.0012 mg/L	0.0012 mg/L	16:12:11
2	As 188.979†	1.7	0.7	-0.0001 mg/L	-0.0001 mg/L	16:12:11
2	B 182.528†	-23.7	9.9	0.0075 mg/L	0.0075 mg/L	16:12:11
2	Ba 233.527†	-138.8	16.5	-0.0013 mg/L	-0.0013 mg/L	16:12:11
2	Be 313.107†	5203.0	67.5	-0.0001 mg/L	-0.0001 mg/L	16:11:50
2	Ca 315.886†	3210.6	115.7	-0.0148 mg/L	-0.0148 mg/L	16:11:50
2	Cd 228.802†	382.3	-9.8	0.0001 mg/L	0.0001 mg/L	16:12:11
2	Co 228.616†	-382.7	11.2	-0.0018 mg/L	-0.0018 mg/L	16:12:11
2	Cr 267.716†	1789.0	24.8	-0.0010 mg/L	-0.0010 mg/L	16:11:50
2	Cu 324.752†	1536.1	78.4	0.0003 mg/L	0.0003 mg/L	16:11:50
2	Fe 238.204†	1084.6	101.1	-0.0066 mg/L	-0.0066 mg/L	16:12:11
2	Fe 234.349†	252.9	28.3	-0.0042 mg/L	-0.0042 mg/L	16:12:11
2	Mg 279.077†	-20.0	-23.4	-0.0034 mg/L	-0.0034 mg/L	16:11:50
2	Mn 257.610†	941.3	91.0	-0.0025 mg/L	-0.0025 mg/L	16:11:50
2	Mo 202.031†	35.7	27.7	0.0004 mg/L	0.0004 mg/L	16:12:11
2	Na 330.237†	1129.2	-30.4	0.5923 mg/L	0.5923 mg/L	16:11:50
2	Ni 231.604†	374.9	12.8	-0.0017 mg/L	-0.0017 mg/L	16:12:11
2	Pb 220.353†	-109.8	11.2	-0.0004 mg/L	-0.0004 mg/L	16:12:11
2	Sb 206.836†	81.9	1.9	0.0008 mg/L	0.0008 mg/L	16:12:11
2	Se 196.026†	-4.1	4.4	0.0043 mg/L	0.0043 mg/L	16:12:11
2	Sn 189.927†	68.5	-7.3	-0.0091 mg/L	-0.0091 mg/L	16:12:11
2	Ti 337.279†	1204.5	271.8	-0.0004 mg/L	-0.0004 mg/L	16:11:50
2	Tl 190.801†	16.5	28.1	0.0423 mg/L	0.0423 mg/L	16:12:11
2	V 292.402†	2384.2	-78.0	-0.0007 mg/L	-0.0007 mg/L	16:11:50
2	Zn 213.857†	1005.5	48.9	-0.0001 mg/L	-0.0001 mg/L	16:12:11

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2454617.2				9418.77	0.38%
Ag 328.068†	64.8	0.0004 mg/L	0.00009	0.0004 mg/L	0.00009	22.70%
QC value within limits for Ag 328.068			Recovery =	Not calculated		
Al 237.313†	18.4	0.0014 mg/L	0.00026	0.0014 mg/L	0.00026	18.32%
QC value within limits for Al 237.313			Recovery =	Not calculated		
As 188.979†	1.8	0.0008 mg/L	0.00122	0.0008 mg/L	0.00122	156.12%
QC value within limits for As 188.979			Recovery =	Not calculated		
B 182.528†	13.2	0.0101 mg/L	0.00372	0.0101 mg/L	0.00372	36.80%
QC value within limits for B 182.528			Recovery =	Not calculated		
Ba 233.527†	16.6	-0.0013 mg/L	0.00000	-0.0013 mg/L	0.00000	0.10%
QC value within limits for Ba 233.527			Recovery =	Not calculated		
Be 313.107†	91.0	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	5.36%
QC value within limits for Be 313.107			Recovery =	Not calculated		
Ca 315.886†	83.7	-0.0150 mg/L	0.00030	-0.0150 mg/L	0.00030	2.03%
QC value within limits for Ca 315.886			Recovery =	Not calculated		
Cd 228.802†	-8.9	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	8.97%
QC value within limits for Cd 228.802			Recovery =	Not calculated		
Co 228.616†	6.0	-0.0019 mg/L	0.00010	-0.0019 mg/L	0.00010	5.43%
QC value within limits for Co 228.616			Recovery =	Not calculated		
Cr 267.716†	21.0	-0.0010 mg/L	0.00004	-0.0010 mg/L	0.00004	3.41%
QC value within limits for Cr 267.716			Recovery =	Not calculated		
Cu 324.752†	105.5	0.0004 mg/L	0.00021	0.0004 mg/L	0.00021	52.62%
QC value within limits for Cu 324.752			Recovery =	Not calculated		
Fe 238.204†	117.8	-0.0064 mg/L	0.00019	-0.0064 mg/L	0.00019	2.90%
QC value within limits for Fe 238.204			Recovery =	Not calculated		
Fe 234.349†	38.0	-0.0040 mg/L	0.00033	-0.0040 mg/L	0.00033	8.44%
QC value within limits for Fe 234.349			Recovery =	Not calculated		
Mg 279.077†	-9.7	-0.0028 mg/L	0.00088	-0.0028 mg/L	0.00088	31.95%
QC value within limits for Mg 279.077			Recovery =	Not calculated		
Mn 257.610†	132.7	-0.0025 mg/L	0.00006	-0.0025 mg/L	0.00006	2.40%
QC value within limits for Mn 257.610			Recovery =	Not calculated		
Mo 202.031†	32.6	0.0008 mg/L	0.00052	0.0008 mg/L	0.00052	64.00%
QC value within limits for Mo 202.031			Recovery =	Not calculated		
Na 330.237†	-1.9	0.6520 mg/L	0.08436	0.6520 mg/L	0.08436	12.94%
QC value within limits for Na 330.237			Recovery =	Not calculated		
Ni 231.604†	14.5	-0.0017 mg/L	0.00004	-0.0017 mg/L	0.00004	2.55%

Pb	220.353†	QC value within limits for Ni 231.604	Recovery = Not calculated				
		7.7	-0.0008 mg/L	0.00054	-0.0008 mg/L	0.00054	67.20%
Sb	206.836†	QC value within limits for Pb 220.353	Recovery = Not calculated				
		3.0	0.0011 mg/L	0.00043	0.0011 mg/L	0.00043	38.23%
Se	196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated				
		5.0	0.0052 mg/L	0.00135	0.0052 mg/L	0.00135	25.82%
Sn	189.927†	QC value within limits for Se 196.026	Recovery = Not calculated				
		-6.1	-0.0088 mg/L	0.00051	-0.0088 mg/L	0.00051	5.80%
Ti	337.279†	QC value within limits for Sn 189.927	Recovery = Not calculated				
		268.3	-0.0004 mg/L	0.00001	-0.0004 mg/L	0.00001	1.50%
Tl	190.801†	QC value within limits for Ti 337.279	Recovery = Not calculated				
		32.1	0.0459 mg/L	0.00512	0.0459 mg/L	0.00512	11.16%
V	292.402†	QC value greater than the upper limit for Tl 190.801	Recovery = Not calculated				
		-86.5	-0.0007 mg/L	0.00005	-0.0007 mg/L	0.00005	7.07%
Zn	213.857†	QC value within limits for V 292.402	Recovery = Not calculated				
		50.0	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	13.68%

QC value within limits for Zn 213.857 Recovery = Not calculated  
QC Failed. Continue with analysis.

Sequence No.: 8  
 Sample ID: CRI1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:  
 User canceled analysis.

Autosampler Location: 6  
 Date Collected: 6/22/2006 4:13:47 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:





Element	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Time
Y 360.073	2458770.2	2458770.2				16:17:04
Ag 328.068†	7698.5	8340.7	0.0250 mg/L	0.0250 mg/L		16:17:10
Al 237.313†	1914.1	2221.8	0.2451 mg/L	0.2451 mg/L		16:17:30
As 188.979†	58.9	57.6	0.0476 mg/L	0.0476 mg/L		16:17:30
B 182.528†	33.4	66.9	0.0535 mg/L	0.0535 mg/L		16:17:30
Ba 233.527†	9034.1	9140.9	0.0489 mg/L	0.0489 mg/L		16:17:10
Be 313.107†	36781.4	31454.5	0.0049 mg/L	0.0049 mg/L		16:17:04
Ca 315.886†	76525.0	73024.7	0.4764 mg/L	0.4764 mg/L		16:17:10
Cd 228.802†	2374.1	1969.7	0.0237 mg/L	0.0237 mg/L		16:17:30
Co 228.616†	3102.6	3479.6	0.0469 mg/L	0.0469 mg/L		16:17:30
Cr 267.716†	9323.2	7510.8	0.0486 mg/L	0.0486 mg/L		16:17:10
Cu 324.752†	10376.0	8864.3	0.0490 mg/L	0.0490 mg/L		16:17:10
Fe 238.204†	32970.9	31812.4	0.2449 mg/L	0.2449 mg/L		16:17:10
Fe 234.349†	10515.3	10234.9	0.2445 mg/L	0.2445 mg/L		16:17:10
Mg 279.077†	10894.5	10832.9	0.4897 mg/L	0.4897 mg/L		16:17:10
Mn 257.610†	51497.7	50373.5	0.0480 mg/L	0.0480 mg/L		16:17:10
Mo 202.031†	674.9	663.4	0.0491 mg/L	0.0491 mg/L		16:17:30
Na 330.237†	2185.2	1014.9	2.780 mg/L	2.780 mg/L		16:17:10
Ni 231.604†	3201.6	2822.8	0.0476 mg/L	0.0476 mg/L		16:17:10
Pb 220.353†	341.6	460.7	0.0493 mg/L	0.0493 mg/L		16:17:30
Sb 206.836†	257.5	176.2	0.0481 mg/L	0.0481 mg/L		16:17:30
Se 196.026†	67.4	75.5	0.1038 mg/L	0.1038 mg/L		16:17:30
Sn 189.927†	247.1	170.1	0.0469 mg/L	0.0469 mg/L		16:17:30
Ti 337.279†	38317.9	37181.8	0.0486 mg/L	0.0486 mg/L		16:17:10
Tl 190.801†	55.0	66.3	0.0772 mg/L	0.0772 mg/L		16:17:30
V 292.402†	14662.4	12124.2	0.0494 mg/L	0.0494 mg/L		16:17:10
Zn 213.857†	5667.3	4681.4	0.0493 mg/L	0.0493 mg/L		16:17:10

Mean Data: CRI1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2458952.3						257.49	0.01%
Ag 328.068†	8375.1	0.0251 mg/L		0.00014	0.0251 mg/L		0.00014	0.57%
QC value within limits for Ag 328.068				Recovery = 100.52%				
Al 237.313†	2238.7	0.2469 mg/L		0.00267	0.2469 mg/L		0.00267	1.08%
QC value within limits for Al 237.313				Recovery = 98.78%				
As 188.979†	58.3	0.0481 mg/L		0.00074	0.0481 mg/L		0.00074	1.53%
QC value within limits for As 188.979				Recovery = 96.23%				
B 182.528†	68.4	0.0547 mg/L		0.00172	0.0547 mg/L		0.00172	3.15%
QC value within limits for B 182.528				Recovery = 109.44%				
Ba 233.527†	9159.9	0.0490 mg/L		0.00015	0.0490 mg/L		0.00015	0.30%
QC value within limits for Ba 233.527				Recovery = 98.06%				
Be 313.107†	31429.8	0.0049 mg/L		0.00001	0.0049 mg/L		0.00001	0.11%
QC value within limits for Be 313.107				Recovery = 97.75%				
Ca 315.886†	73100.9	0.4769 mg/L		0.00073	0.4769 mg/L		0.00073	0.15%
QC value within limits for Ca 315.886				Recovery = 95.38%				
Cd 228.802†	1969.6	0.0237 mg/L		0.00000	0.0237 mg/L		0.00000	0.01%
QC value within limits for Cd 228.802				Recovery = 94.73%				
Co 228.616†	3489.8	0.0471 mg/L		0.00020	0.0471 mg/L		0.00020	0.43%
QC value within limits for Co 228.616				Recovery = 94.14%				
Cr 267.716†	7553.5	0.0488 mg/L		0.00040	0.0488 mg/L		0.00040	0.82%
QC value within limits for Cr 267.716				Recovery = 97.68%				
Cu 324.752†	8911.6	0.0492 mg/L		0.00037	0.0492 mg/L		0.00037	0.75%
QC value within limits for Cu 324.752				Recovery = 98.47%				
Fe 238.204†	31882.2	0.2454 mg/L		0.00078	0.2454 mg/L		0.00078	0.32%
QC value within limits for Fe 238.204				Recovery = 98.18%				
Fe 234.349†	10263.3	0.2452 mg/L		0.00097	0.2452 mg/L		0.00097	0.40%
QC value within limits for Fe 234.349				Recovery = 98.08%				
Mg 279.077†	10848.2	0.4903 mg/L		0.00098	0.4903 mg/L		0.00098	0.20%
QC value within limits for Mg 279.077				Recovery = 98.07%				
Mn 257.610†	50410.9	0.0480 mg/L		0.00005	0.0480 mg/L		0.00005	0.11%
QC value within limits for Mn 257.610				Recovery = 96.06%				
Mo 202.031†	671.8	0.0497 mg/L		0.00092	0.0497 mg/L		0.00092	1.84%
QC value within limits for Mo 202.031				Recovery = 99.48%				
Na 330.237†	1019.7	2.790 mg/L		0.0142	2.790 mg/L		0.0142	0.51%
QC value within limits for Na 330.237				Recovery = 111.61%				
Ni 231.604†	2839.7	0.0479 mg/L		0.00042	0.0479 mg/L		0.00042	0.88%
QC value within limits for Ni 231.604				Recovery = 95.89%				
Pb 220.353†	463.5	0.0496 mg/L		0.00045	0.0496 mg/L		0.00045	0.90%
QC value within limits for Pb 220.353				Recovery = 99.21%				

Sb 206.836†	174.5	0.0476 mg/L	0.00069	0.0476 mg/L	0.00069	1.45%
QC value within limits for Sb 206.836 Recovery = 95.12%						
Se 196.026†	76.4	0.1051 mg/L	0.00173	0.1051 mg/L	0.00173	1.65%
QC value within limits for Se 196.026 Recovery = 105.07%						
Sn 189.927†	168.9	0.0465 mg/L	0.00055	0.0465 mg/L	0.00055	1.19%
QC value within limits for Sn 189.927 Recovery = 93.02%						
Ti 337.279†	37223.7	0.0487 mg/L	0.00008	0.0487 mg/L	0.00008	0.16%
QC value within limits for Ti 337.279 Recovery = 97.36%						
Tl 190.801†	65.7	0.0766 mg/L	0.00077	0.0766 mg/L	0.00077	1.00%
QC value greater than the upper limit for Tl 190.801 Recovery = 153.29%						
V 292.402†	12095.8	0.0493 mg/L	0.00016	0.0493 mg/L	0.00016	0.33%
QC value within limits for V 292.402 Recovery = 98.64%						
Zn 213.857†	4679.6	0.0493 mg/L	0.00003	0.0493 mg/L	0.00003	0.06%
QC value within limits for Zn 213.857 Recovery = 98.58%						
QC Failed. Continue with analysis.						

Sequence No.: 5  
 Sample ID: CRI2  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 7  
 Date Collected: 6/22/2006 4:19:09 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: CRI2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2458047.2	2458047.2			16:20:43
1	Ag 328.068†	2901.4	3570.0	0.0108 mg/L	0.0108 mg/L	16:20:48
1	Al 237.313†	628.8	943.6	0.1037 mg/L	0.1037 mg/L	16:21:08
1	As 188.979†	25.2	24.1	0.0195 mg/L	0.0195 mg/L	16:21:08
1	B 182.528†	-9.1	24.6	0.0194 mg/L	0.0194 mg/L	16:21:08
1	Ba 233.527†	3546.1	3683.3	0.0189 mg/L	0.0189 mg/L	16:21:08
1	Be 313.107†	18261.0	13038.3	0.0020 mg/L	0.0020 mg/L	16:20:43
1	Ca 315.886†	33251.1	29991.5	0.1865 mg/L	0.1865 mg/L	16:20:48
1	Cd 228.802†	1169.5	771.8	0.0094 mg/L	0.0094 mg/L	16:21:08
1	Co 228.616†	1029.3	1417.6	0.0179 mg/L	0.0179 mg/L	16:21:08
1	Cr 267.716†	4947.8	3160.2	0.0197 mg/L	0.0197 mg/L	16:20:48
1	Cu 324.752†	5143.7	3661.5	0.0201 mg/L	0.0201 mg/L	16:20:48
1	Fe 238.204†	14448.5	13393.1	0.0988 mg/L	0.0988 mg/L	16:20:48
1	Fe 234.349†	4533.9	4286.8	0.0996 mg/L	0.0996 mg/L	16:20:48
1	Mg 279.077†	4410.1	4384.4	0.1968 mg/L	0.1968 mg/L	16:20:48
1	Mn 257.610†	21657.0	20698.3	0.0182 mg/L	0.0182 mg/L	16:20:48
1	Mo 202.031†	297.2	287.8	0.0203 mg/L	0.0203 mg/L	16:21:08
1	Na 330.237†	1590.8	424.3	1.544 mg/L	1.544 mg/L	16:20:48
1	Ni 231.604†	1544.4	1174.8	0.0187 mg/L	0.0187 mg/L	16:21:08
1	Pb 220.353†	62.0	182.6	0.0185 mg/L	0.0185 mg/L	16:21:08
1	Sb 206.836†	164.0	83.3	0.0229 mg/L	0.0229 mg/L	16:21:08
1	Se 196.026†	21.1	29.5	0.0394 mg/L	0.0394 mg/L	16:21:08
1	Sn 189.927†	153.4	77.0	0.0175 mg/L	0.0175 mg/L	16:21:08
1	Ti 337.279†	16274.5	15260.8	0.0195 mg/L	0.0195 mg/L	16:20:48
1	Tl 190.801†	27.0	38.5	0.0518 mg/L	0.0518 mg/L	16:21:08
1	V 292.402†	7394.2	4897.0	0.0198 mg/L	0.0198 mg/L	16:20:48
1	Zn 213.857†	2922.3	1951.9	0.0202 mg/L	0.0202 mg/L	16:21:08
2	Y 360.073	2460530.8	2460530.8			16:21:14
2	Ag 328.068†	2721.2	3388.1	0.0103 mg/L	0.0103 mg/L	16:21:19
2	Al 237.313†	584.7	899.1	0.0988 mg/L	0.0988 mg/L	16:21:40
2	As 188.979†	23.3	22.2	0.0179 mg/L	0.0179 mg/L	16:21:40
2	B 182.528†	-2.0	31.6	0.0250 mg/L	0.0250 mg/L	16:21:40
2	Ba 233.527†	3561.2	3694.7	0.0189 mg/L	0.0189 mg/L	16:21:40
2	Be 313.107†	18255.4	13014.4	0.0020 mg/L	0.0020 mg/L	16:21:14
2	Ca 315.886†	33229.4	29936.5	0.1861 mg/L	0.1861 mg/L	16:21:19
2	Cd 228.802†	1195.7	796.7	0.0097 mg/L	0.0097 mg/L	16:21:40
2	Co 228.616†	1025.9	1413.2	0.0179 mg/L	0.0179 mg/L	16:21:40
2	Cr 267.716†	4923.1	3130.7	0.0195 mg/L	0.0195 mg/L	16:21:19
2	Cu 324.752†	5117.7	3630.4	0.0200 mg/L	0.0200 mg/L	16:21:19
2	Fe 238.204†	14381.9	13312.4	0.0982 mg/L	0.0982 mg/L	16:21:19
2	Fe 234.349†	4535.4	4283.7	0.0995 mg/L	0.0995 mg/L	16:21:19
2	Mg 279.077†	4474.2	4443.7	0.1995 mg/L	0.1995 mg/L	16:21:19
2	Mn 257.610†	21635.8	20655.5	0.0181 mg/L	0.0181 mg/L	16:21:19
2	Mo 202.031†	295.6	285.8	0.0202 mg/L	0.0202 mg/L	16:21:40

2	Na 330.237†	1626.7	458.3	1.615 mg/L	1.615 mg/L	16:21:19
2	Ni 231.604†	1525.8	1154.8	0.0183 mg/L	0.0183 mg/L	16:21:40
2	Pb 220.353†	62.7	183.2	0.0186 mg/L	0.0186 mg/L	16:21:40
2	Sb 206.836†	158.7	77.9	0.0214 mg/L	0.0214 mg/L	16:21:40
2	Se 196.026†	21.6	29.9	0.0400 mg/L	0.0400 mg/L	16:21:40
2	Sn 189.927†	150.3	73.7	0.0164 mg/L	0.0164 mg/L	16:21:40
2	Ti 337.279†	16279.3	15249.3	0.0195 mg/L	0.0195 mg/L	16:21:19
2	Tl 190.801†	20.5	32.1	0.0459 mg/L	0.0459 mg/L	16:21:40
2	V 292.402†	7441.3	4936.4	0.0199 mg/L	0.0199 mg/L	16:21:19
2	Zn 213.857†	2915.0	1941.7	0.0201 mg/L	0.0201 mg/L	16:21:40

Mean Data: CRI2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2459289.0				1756.15	0.07%
Ag 328.068†	3479.1	0.0106 mg/L	0.00038	0.0106 mg/L	0.00038	3.62%
QC value within limits for Ag 328.068 Recovery = 105.63%						
Al 237.313†	921.3	0.1013 mg/L	0.00351	0.1013 mg/L	0.00351	3.46%
QC value within limits for Al 237.313 Recovery = 101.25%						
As 188.979†	23.2	0.0187 mg/L	0.00109	0.0187 mg/L	0.00109	5.84%
QC value within limits for As 188.979 Recovery = 93.55%						
B 182.528†	28.1	0.0222 mg/L	0.00398	0.0222 mg/L	0.00398	17.96%
QC value within limits for B 182.528 Recovery = 110.91%						
Ba 233.527†	3689.0	0.0189 mg/L	0.00004	0.0189 mg/L	0.00004	0.24%
QC value within limits for Ba 233.527 Recovery = 94.54%						
Be 313.107†	13026.3	0.0020 mg/L	0.00000	0.0020 mg/L	0.00000	0.14%
QC value within limits for Be 313.107 Recovery = 97.97%						
Ca 315.886†	29964.0	0.1863 mg/L	0.00026	0.1863 mg/L	0.00026	0.14%
QC value within limits for Ca 315.886 Recovery = 93.15%						
Cd 228.802†	784.3	0.0096 mg/L	0.00022	0.0096 mg/L	0.00022	2.25%
QC value within limits for Cd 228.802 Recovery = 95.72%						
Co 228.616†	1415.4	0.0179 mg/L	0.00004	0.0179 mg/L	0.00004	0.25%
QC value within limits for Co 228.616 Recovery = 89.56%						
Cr 267.716†	3145.5	0.0196 mg/L	0.00014	0.0196 mg/L	0.00014	0.70%
QC value within limits for Cr 267.716 Recovery = 98.23%						
Cu 324.752†	3646.0	0.0200 mg/L	0.00012	0.0200 mg/L	0.00012	0.61%
QC value within limits for Cu 324.752 Recovery = 100.18%						
Fe 238.204†	13352.7	0.0985 mg/L	0.00045	0.0985 mg/L	0.00045	0.46%
QC value within limits for Fe 238.204 Recovery = 98.51%						
Fe 234.349†	4285.2	0.0995 mg/L	0.00005	0.0995 mg/L	0.00005	0.05%
QC value within limits for Fe 234.349 Recovery = 99.53%						
Mg 279.077†	4414.1	0.1981 mg/L	0.00190	0.1981 mg/L	0.00190	0.96%
QC value within limits for Mg 279.077 Recovery = 99.07%						
Mn 257.610†	20676.9	0.0182 mg/L	0.00003	0.0182 mg/L	0.00003	0.17%
QC value within limits for Mn 257.610 Recovery = 90.83%						
Mo 202.031†	286.8	0.0203 mg/L	0.00011	0.0203 mg/L	0.00011	0.52%
QC value within limits for Mo 202.031 Recovery = 101.36%						
Na 330.237†	441.3	1.580 mg/L	0.0504	1.580 mg/L	0.0504	3.19%
QC value greater than the upper limit for Na 330.237 Recovery = 157.97%						
Ni 231.604†	1164.8	0.0185 mg/L	0.00025	0.0185 mg/L	0.00025	1.35%
QC value within limits for Ni 231.604 Recovery = 92.51%						
Pb 220.353†	182.9	0.0186 mg/L	0.00005	0.0186 mg/L	0.00005	0.25%
QC value within limits for Pb 220.353 Recovery = 92.88%						
Sb 206.836†	80.6	0.0222 mg/L	0.00104	0.0222 mg/L	0.00104	4.71%
QC value within limits for Sb 206.836 Recovery = 110.78%						
Se 196.026†	29.7	0.0397 mg/L	0.00041	0.0397 mg/L	0.00041	1.03%
QC value within limits for Se 196.026 Recovery = 99.20%						
Sn 189.927†	75.3	0.0170 mg/L	0.00074	0.0170 mg/L	0.00074	4.35%
QC value within limits for Sn 189.927 Recovery = 84.75%						
Ti 337.279†	15255.1	0.0195 mg/L	0.00001	0.0195 mg/L	0.00001	0.06%
QC value within limits for Ti 337.279 Recovery = 97.42%						
Tl 190.801†	35.3	0.0488 mg/L	0.00414	0.0488 mg/L	0.00414	8.47%
QC value greater than the upper limit for Tl 190.801 Recovery = 244.20%						
V 292.402†	4916.7	0.0198 mg/L	0.00011	0.0198 mg/L	0.00011	0.57%
QC value within limits for V 292.402 Recovery = 99.21%						
Zn 213.857†	1946.8	0.0201 mg/L	0.00008	0.0201 mg/L	0.00008	0.37%
QC value within limits for Zn 213.857 Recovery = 100.63%						
QC Failed. Continue with analysis.						

Sequence No.: 6  
 Sample ID: CRI3  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 8  
 Date Collected: 6/22/2006 4:23:19 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

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 Replicate Data: CRI3

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2463831.1	2463831.1			16:24:54
1	Ag 328.068†	1033.4	1709.1	0.0053 mg/L	0.0053 mg/L	16:24:59
1	Al 237.313†	146.4	463.2	0.0506 mg/L	0.0506 mg/L	16:25:19
1	As 188.979†	9.9	8.9	0.0067 mg/L	0.0067 mg/L	16:25:19
1	B 182.528†	-22.3	11.5	0.0087 mg/L	0.0087 mg/L	16:25:19
1	Ba 233.527†	1692.3	1834.9	0.0087 mg/L	0.0087 mg/L	16:25:19
1	Be 313.107†	11681.2	6464.3	0.0009 mg/L	0.0009 mg/L	16:24:54
1	Ca 315.886†	18335.1	15107.9	0.0862 mg/L	0.0862 mg/L	16:24:59
1	Cd 228.802†	786.9	389.4	0.0049 mg/L	0.0049 mg/L	16:25:19
1	Co 228.616†	306.1	697.4	0.0078 mg/L	0.0078 mg/L	16:25:19
1	Cr 267.716†	3271.9	1485.2	0.0087 mg/L	0.0087 mg/L	16:24:59
1	Cu 324.752†	3191.8	1711.9	0.0093 mg/L	0.0093 mg/L	16:24:59
1	Fe 238.204†	7645.4	6606.5	0.0450 mg/L	0.0450 mg/L	16:24:59
1	Fe 234.349†	2314.2	2072.8	0.0456 mg/L	0.0456 mg/L	16:25:19
1	Mg 279.077†	2259.9	2239.8	0.0994 mg/L	0.0994 mg/L	16:24:59
1	Mn 257.610†	11377.5	10444.2	0.0079 mg/L	0.0079 mg/L	16:24:59
1	Mo 202.031†	152.9	143.8	0.0093 mg/L	0.0093 mg/L	16:25:19
1	Na 330.237†	1366.7	198.1	1.070 mg/L	1.070 mg/L	16:24:59
1	Ni 231.604†	938.7	570.0	0.0080 mg/L	0.0080 mg/L	16:25:19
1	Pb 220.353†	-22.5	98.6	0.0092 mg/L	0.0092 mg/L	16:25:19
1	Sb 206.836†	120.4	39.6	0.0110 mg/L	0.0110 mg/L	16:25:19
1	Se 196.026†	4.7	13.1	0.0165 mg/L	0.0165 mg/L	16:25:19
1	Sn 189.927†	117.3	40.8	0.0060 mg/L	0.0060 mg/L	16:25:19
1	Ti 337.279†	8757.1	7760.9	0.0095 mg/L	0.0095 mg/L	16:24:59
1	Tl 190.801†	7.0	18.6	0.0336 mg/L	0.0336 mg/L	16:25:19
1	V 292.402†	4921.7	2425.5	0.0096 mg/L	0.0096 mg/L	16:24:59
1	Zn 213.857†	1952.7	982.6	0.0098 mg/L	0.0098 mg/L	16:25:19
2	Y 360.073	2458362.4	2458362.4			16:25:25
2	Ag 328.068†	1116.6	1794.1	0.0056 mg/L	0.0056 mg/L	16:25:30
2	Al 237.313†	162.6	479.7	0.0524 mg/L	0.0524 mg/L	16:25:51
2	As 188.979†	14.3	13.2	0.0104 mg/L	0.0104 mg/L	16:25:51
2	B 182.528†	-19.6	14.1	0.0109 mg/L	0.0109 mg/L	16:25:51
2	Ba 233.527†	1707.2	1853.5	0.0088 mg/L	0.0088 mg/L	16:25:51
2	Be 313.107†	11808.0	6616.3	0.0009 mg/L	0.0009 mg/L	16:25:25
2	Ca 315.886†	18312.6	15126.0	0.0864 mg/L	0.0864 mg/L	16:25:30
2	Cd 228.802†	787.3	391.5	0.0049 mg/L	0.0049 mg/L	16:25:51
2	Co 228.616†	310.9	702.8	0.0079 mg/L	0.0079 mg/L	16:25:51
2	Cr 267.716†	3362.6	1582.7	0.0093 mg/L	0.0093 mg/L	16:25:30
2	Cu 324.752†	3178.5	1705.8	0.0093 mg/L	0.0093 mg/L	16:25:30
2	Fe 238.204†	7655.4	6633.4	0.0452 mg/L	0.0452 mg/L	16:25:30
2	Fe 234.349†	2323.2	2086.9	0.0460 mg/L	0.0460 mg/L	16:25:51
2	Mg 279.077†	2286.3	2271.0	0.1008 mg/L	0.1008 mg/L	16:25:30
2	Mn 257.610†	11311.6	10403.7	0.0078 mg/L	0.0078 mg/L	16:25:30
2	Mo 202.031†	154.9	146.1	0.0095 mg/L	0.0095 mg/L	16:25:51
2	Na 330.237†	1436.7	270.7	1.223 mg/L	1.223 mg/L	16:25:30
2	Ni 231.604†	934.3	567.7	0.0080 mg/L	0.0080 mg/L	16:25:51
2	Pb 220.353†	-27.0	94.1	0.0087 mg/L	0.0087 mg/L	16:25:51
2	Sb 206.836†	113.5	33.0	0.0092 mg/L	0.0092 mg/L	16:25:51
2	Se 196.026†	7.1	15.5	0.0198 mg/L	0.0198 mg/L	16:25:51
2	Sn 189.927†	113.2	37.0	0.0048 mg/L	0.0048 mg/L	16:25:51
2	Ti 337.279†	8712.3	7735.7	0.0095 mg/L	0.0095 mg/L	16:25:30
2	Tl 190.801†	20.4	32.0	0.0458 mg/L	0.0458 mg/L	16:25:51
2	V 292.402†	4880.7	2395.6	0.0095 mg/L	0.0095 mg/L	16:25:30
2	Zn 213.857†	1945.5	979.8	0.0098 mg/L	0.0098 mg/L	16:25:51

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 Mean Data: CRI3

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2461096.7				3866.95	0.16%
Ag 328.068†	1751.6	0.0054 mg/L	0.00018	0.0054 mg/L	0.00018	3.30%

Al	237.313†	471.4	0.0515 mg/L	0.00130	0.0515 mg/L	0.00130	2.52%
QC value within limits for Ag 328.068 Recovery = 108.48%							
As	188.979†	11.0	0.0086 mg/L	0.00259	0.0086 mg/L	0.00259	30.25%
QC value within limits for Al 237.313 Recovery = 103.05%							
B	182.528†	12.8	0.0098 mg/L	0.00152	0.0098 mg/L	0.00152	15.48%
QC value within limits for As 188.979 Recovery = 85.60%							
Ba	233.527†	1844.2	0.0088 mg/L	0.00007	0.0088 mg/L	0.00007	0.83%
QC value within limits for B 182.528 Recovery = 98.12%							
Be	313.107†	6540.3	0.0009 mg/L	0.00002	0.0009 mg/L	0.00002	1.85%
QC value within limits for Ba 233.527 Recovery = 87.52%							
Ca	315.886†	15117.0	0.0863 mg/L	0.00009	0.0863 mg/L	0.00009	0.10%
QC value within limits for Be 313.107 Recovery = 92.73%							
Cd	228.802†	390.5	0.0049 mg/L	0.00001	0.0049 mg/L	0.00001	0.21%
QC value within limits for Ca 315.886 Recovery = 86.30%							
Co	228.616†	700.1	0.0079 mg/L	0.00005	0.0079 mg/L	0.00005	0.69%
QC value within limits for Cd 228.802 Recovery = 97.71%							
Cr	267.716†	1533.9	0.0090 mg/L	0.00046	0.0090 mg/L	0.00046	5.09%
QC value within limits for Co 228.616 Recovery = 78.57%							
Cu	324.752†	1708.9	0.0093 mg/L	0.00002	0.0093 mg/L	0.00002	0.26%
QC value within limits for Cr 267.716 Recovery = 89.74%							
Fe	238.204†	6619.9	0.0451 mg/L	0.00015	0.0451 mg/L	0.00015	0.33%
QC value within limits for Cu 324.752 Recovery = 92.95%							
Fe	234.349†	2079.8	0.0458 mg/L	0.00024	0.0458 mg/L	0.00024	0.53%
QC value within limits for Fe 238.204 Recovery = 90.23%							
Mg	279.077†	2255.4	0.1001 mg/L	0.00100	0.1001 mg/L	0.00100	1.00%
QC value within limits for Fe 234.349 Recovery = 91.58%							
Mn	257.610†	10423.9	0.0079 mg/L	0.00003	0.0079 mg/L	0.00003	0.36%
QC value within limits for Mg 279.077 Recovery = 100.12%							
Mo	202.031†	145.0	0.0094 mg/L	0.00012	0.0094 mg/L	0.00012	1.31%
QC value within limits for Mn 257.610 Recovery = 78.69%							
Na	330.237†	234.4	1.147 mg/L	0.1076	1.147 mg/L	0.1076	9.38%
QC value greater than the upper limit for Mo 202.031 Recovery = 94.20%							
Ni	231.604†	568.9	0.0080 mg/L	0.00003	0.0080 mg/L	0.00003	0.36%
QC value within limits for Na 330.237 Recovery = 229.31%							
Pb	220.353†	96.3	0.0090 mg/L	0.00035	0.0090 mg/L	0.00035	3.89%
QC value within limits for Ni 231.604 Recovery = 80.26%							
Sb	206.836†	36.3	0.0101 mg/L	0.00129	0.0101 mg/L	0.00129	12.69%
QC value within limits for Pb 220.353 Recovery = 89.95%							
Se	196.026†	14.3	0.0182 mg/L	0.00234	0.0182 mg/L	0.00234	12.89%
QC value within limits for Sb 206.836 Recovery = 101.35%							
Sn	189.927†	38.9	0.0054 mg/L	0.00086	0.0054 mg/L	0.00086	15.81%
QC value within limits for Se 196.026 Recovery = 90.89%							
Ti	337.279†	7748.3	0.0095 mg/L	0.00002	0.0095 mg/L	0.00002	0.25%
QC value less than the lower limit for Sn 189.927 Recovery = 54.33%							
Tl	190.801†	25.3	0.0397 mg/L	0.00864	0.0397 mg/L	0.00864	21.76%
QC value within limits for Ti 337.279 Recovery = 95.06%							
V	292.402†	2410.6	0.0095 mg/L	0.00008	0.0095 mg/L	0.00008	0.87%
QC value greater than the upper limit for Tl 190.801 Recovery = 397.07%							
Zn	213.857†	981.2	0.0098 mg/L	0.00002	0.0098 mg/L	0.00002	0.21%
QC value within limits for V 292.402 Recovery = 95.48%							
QC value within limits for Zn 213.857 Recovery = 98.23%							
QC Failed. Continue with analysis.							

Sequence No.: 7  
 Sample ID: ICSA  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 106  
 Date Collected: 6/22/2006 4:27:31 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2378641.4	2378641.4			16:29:19
1	Ag 328.068†	-944.3	-287.6	-0.0006 mg/L	-0.0006 mg/L	16:29:24
1	Al 237.313†	2147573.9	2208387.0	245.5 mg/L	245.5 mg/L	16:29:19
1	As 188.979†	6.3	5.5	0.0040 mg/L	0.0040 mg/L	16:29:44
1	B 182.528†	-7.8	25.7	0.0202 mg/L	0.0202 mg/L	16:29:44
1	Ba 233.527†	-153.8	-3.0	-0.0014 mg/L	-0.0014 mg/L	16:29:44
1	Be 313.107†	2106.5	-2964.8	-0.0003 mg/L	-0.0003 mg/L	16:29:24

1	Ca 315.886†	34020301.8	34975530.8	235.6 mg/L	235.6 mg/L	16:29:11
1	Cd 228.802†	492.8	114.9	-0.0003 mg/L	-0.0003 mg/L	16:29:44
1	Co 228.616†	-390.8	-8.3	-0.0021 mg/L	-0.0021 mg/L	16:29:44
1	Cr 267.716†	1261.2	-465.8	0.0002 mg/L	0.0002 mg/L	16:29:44
1	Cu 324.752†	573.4	-866.8	-0.0050 mg/L	-0.0050 mg/L	16:29:24
1	Fe 238.204†	10308889.7	10598299.3	84.01 mg/L	84.01 mg/L	16:29:11
1	Fe 234.349†	3572562.0	3672973.5	89.66 mg/L	89.66 mg/L	16:29:19
1	Mg 279.077†	5131581.0	5276129.6	239.6 mg/L	239.6 mg/L	16:29:19
1	Mn 257.610†	5501.6	4807.2	0.0053 mg/L	0.0053 mg/L	16:29:24
1	Mo 202.031†	-196.5	-210.0	-0.0115 mg/L	-0.0115 mg/L	16:29:44
1	Na 330.237†	486.4	-658.5	-0.3561 mg/L	-0.3561 mg/L	16:29:24
1	Ni 231.604†	438.7	89.2	-0.0004 mg/L	-0.0004 mg/L	16:29:44
1	Pb 220.353†	-424.1	-315.2	-0.0198 mg/L	-0.0198 mg/L	16:29:44
1	Sb 206.836†	60.9	-17.2	-0.0044 mg/L	-0.0044 mg/L	16:29:44
1	Se 196.026†	-24.4	-16.7	-0.0251 mg/L	-0.0251 mg/L	16:29:44
1	Sn 189.927†	145.5	73.9	0.0165 mg/L	0.0165 mg/L	16:29:44
1	Ti 337.279†	5247.9	4464.2	0.0051 mg/L	0.0051 mg/L	16:29:24
1	Tl 190.801†	4.4	16.2	0.0315 mg/L	0.0315 mg/L	16:29:44
1	V 292.402†	2988.1	612.4	0.0021 mg/L	0.0021 mg/L	16:29:44
1	Zn 213.857†	3213.6	2348.4	0.0246 mg/L	0.0246 mg/L	16:29:44
2	Y 360.073	2385300.0	2385300.0			16:30:04
2	Ag 328.068†	-893.7	-233.0	-0.0005 mg/L	-0.0005 mg/L	16:30:10
2	Al 237.313†	2156988.5	2211875.9	245.8 mg/L	245.8 mg/L	16:30:04
2	As 188.979†	7.4	6.6	0.0049 mg/L	0.0049 mg/L	16:30:30
2	B 182.528†	-5.6	27.9	0.0220 mg/L	0.0220 mg/L	16:30:30
2	Ba 233.527†	-160.7	-9.7	-0.0015 mg/L	-0.0015 mg/L	16:30:30
2	Be 313.107†	2141.1	-2935.3	-0.0003 mg/L	-0.0003 mg/L	16:30:10
2	Ca 315.886†	34075608.2	34934593.2	235.3 mg/L	235.3 mg/L	16:29:57
2	Cd 228.802†	498.2	119.1	-0.0002 mg/L	-0.0002 mg/L	16:30:30
2	Co 228.616†	-365.6	18.7	-0.0017 mg/L	-0.0017 mg/L	16:30:30
2	Cr 267.716†	1327.0	-402.0	0.0006 mg/L	0.0006 mg/L	16:30:30
2	Cu 324.752†	601.0	-840.0	-0.0048 mg/L	-0.0048 mg/L	16:30:10
2	Fe 238.204†	10317019.7	10577046.9	83.84 mg/L	83.84 mg/L	16:29:57
2	Fe 234.349†	3586354.3	3676860.9	89.76 mg/L	89.76 mg/L	16:30:04
2	Mg 279.077†	5153658.4	5284037.0	239.9 mg/L	239.9 mg/L	16:30:04
2	Mn 257.610†	5497.8	4787.5	0.0053 mg/L	0.0053 mg/L	16:30:10
2	Mo 202.031†	-190.0	-202.7	-0.0109 mg/L	-0.0109 mg/L	16:30:30
2	Na 330.237†	508.7	-637.0	-0.3107 mg/L	-0.3107 mg/L	16:30:10
2	Ni 231.604†	477.6	127.9	0.0003 mg/L	0.0003 mg/L	16:30:30
2	Pb 220.353†	-416.5	-306.1	-0.0187 mg/L	-0.0187 mg/L	16:30:30
2	Sb 206.836†	49.9	-28.8	-0.0076 mg/L	-0.0076 mg/L	16:30:30
2	Se 196.026†	-23.3	-15.5	-0.0235 mg/L	-0.0235 mg/L	16:30:30
2	Sn 189.927†	153.2	81.4	0.0188 mg/L	0.0188 mg/L	16:30:30
2	Ti 337.279†	5394.2	4599.1	0.0053 mg/L	0.0053 mg/L	16:30:10
2	Tl 190.801†	2.1	13.8	0.0293 mg/L	0.0293 mg/L	16:30:30
2	V 292.402†	2996.2	612.1	0.0021 mg/L	0.0021 mg/L	16:30:30
2	Zn 213.857†	3225.2	2351.0	0.0246 mg/L	0.0246 mg/L	16:30:30

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2381970.7				4708.34	0.20%
Ag 328.068†	-260.3	-0.0006 mg/L	0.00011	-0.0006 mg/L	0.00011	20.51%
QC value within limits for Ag 328.068		Recovery =	Not calculated			
Al 237.313†	2210131.5	245.7 mg/L	0.27	245.7 mg/L	0.27	0.11%
QC value within limits for Al 237.313		Recovery =	98.26%			
As 188.979†	6.1	0.0044 mg/L	0.00065	0.0044 mg/L	0.00065	14.62%
QC value within limits for As 188.979		Recovery =	Not calculated			
B 182.528†	26.8	0.0211 mg/L	0.00129	0.0211 mg/L	0.00129	6.10%
QC value within limits for B 182.528		Recovery =	Not calculated			
Ba 233.527†	-6.4	-0.0014 mg/L	0.00003	-0.0014 mg/L	0.00003	1.81%
QC value within limits for Ba 233.527		Recovery =	Not calculated			
Be 313.107†	-2950.1	-0.0003 mg/L	0.00000	-0.0003 mg/L	0.00000	1.13%
QC value within limits for Be 313.107		Recovery =	Not calculated			
Ca 315.886†	34955062.0	235.4 mg/L	0.19	235.4 mg/L	0.19	0.08%
QC value within limits for Ca 315.886		Recovery =	94.17%			
Cd 228.802†	117.0	-0.0003 mg/L	0.00003	-0.0003 mg/L	0.00003	12.21%
QC value within limits for Cd 228.802		Recovery =	Not calculated			
Co 228.616†	5.2	-0.0019 mg/L	0.00027	-0.0019 mg/L	0.00027	13.94%
QC value within limits for Co 228.616		Recovery =	Not calculated			

Cr 267.716†	-433.9	0.0004 mg/L	0.00030	0.0004 mg/L	0.00030	70.60%
QC value within limits for Cr 267.716	Recovery = Not calculated					
Cu 324.752†	-853.4	-0.0049 mg/L	0.00010	-0.0049 mg/L	0.00010	2.14%
QC value within limits for Cu 324.752	Recovery = Not calculated					
Fe 238.204†	10587673.1	83.92 mg/L	0.119	83.92 mg/L	0.119	0.14%
QC value within limits for Fe 238.204	Recovery = 83.92%					
Fe 234.349†	3674917.2	89.71 mg/L	0.067	89.71 mg/L	0.067	0.07%
QC value within limits for Fe 234.349	Recovery = 89.71%					
Mg 279.077†	5280083.3	239.8 mg/L	0.25	239.8 mg/L	0.25	0.11%
QC value within limits for Mg 279.077	Recovery = 95.90%					
Mn 257.610†	4797.4	0.0053 mg/L	0.00001	0.0053 mg/L	0.00001	0.22%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	-206.4	-0.0112 mg/L	0.00040	-0.0112 mg/L	0.00040	3.57%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 330.237†	-647.7	-0.3334 mg/L	0.03207	-0.3334 mg/L	0.03207	9.62%
QC value within limits for Na 330.237	Recovery = Not calculated					
Ni 231.604†	108.6	-0.0001 mg/L	0.00048	-0.0001 mg/L	0.00048	752.45%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	-310.7	-0.0192 mg/L	0.00072	-0.0192 mg/L	0.00072	3.76%
QC value less than the lower limit for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	-23.0	-0.0060 mg/L	0.00224	-0.0060 mg/L	0.00224	37.56%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	-16.1	-0.0243 mg/L	0.00118	-0.0243 mg/L	0.00118	4.84%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	77.7	0.0176 mg/L	0.00168	0.0176 mg/L	0.00168	9.51%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Ti 337.279†	4531.6	0.0052 mg/L	0.00013	0.0052 mg/L	0.00013	2.42%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 190.801†	15.0	0.0304 mg/L	0.00156	0.0304 mg/L	0.00156	5.12%
QC value within limits for Tl 190.801	Recovery = Not calculated					
V 292.402†	612.3	0.0021 mg/L	0.00000	0.0021 mg/L	0.00000	0.06%
QC value within limits for V 292.402	Recovery = Not calculated					
Zn 213.857†	2349.7	0.0246 mg/L	0.00002	0.0246 mg/L	0.00002	0.07%
QC value within limits for Zn 213.857	Recovery = Not calculated					
QC Failed. Continue with analysis.						

Sequence No.: 8 Autosampler Location: 105  
 Sample ID: ICSAB Date Collected: 6/22/2006 4:32:08 PM  
 Analyst: Data Type: Original  
 Initial Sample Wt: Initial Sample Vol:  
 Dilution: Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2382710.1	2382710.1			16:33:56
1	Ag 328.068†	159735.0	164637.4	0.4899 mg/L	246.2 mg/L	16:33:56
1	Al 237.313†	2157985.3	2215302.9	246.2 mg/L	0.0126 mg/L	16:34:22
1	As 188.979†	16.6	16.1	0.0126 mg/L	0.0254 mg/L	16:34:22
1	B 182.528†	-1.4	32.2	0.0254 mg/L	0.2260 mg/L	16:34:02
1	Ba 233.527†	40095.1	41309.3	0.2260 mg/L	0.2402 mg/L	16:33:56
1	Be 313.107†	1475809.8	1509660.3	0.2402 mg/L	0.4395 mg/L	16:33:48
1	Ca 315.886†	34249804.8	35151366.5	236.7 mg/L	236.7 mg/L	16:34:02
1	Cd 228.802†	36191.1	36755.3	0.4395 mg/L	0.2111 mg/L	16:34:22
1	Co 228.616†	14362.2	15135.1	0.2111 mg/L	0.2304 mg/L	16:34:02
1	Cr 267.716†	35137.4	34302.9	0.2304 mg/L	0.2219 mg/L	16:34:02
1	Cu 324.752†	40456.5	40068.8	0.2219 mg/L	84.29 mg/L	16:33:48
1	Fe 238.204†	10361334.3	10634029.8	84.29 mg/L	89.81 mg/L	16:33:56
1	Fe 234.349†	3584604.7	3679062.0	89.81 mg/L	240.1 mg/L	16:33:56
1	Mg 279.077†	5150656.5	5286699.4	240.1 mg/L	0.2319 mg/L	16:34:02
1	Mn 257.610†	225369.6	230473.0	0.2319 mg/L	-0.0112 mg/L	16:34:22
1	Mo 202.031†	-195.1	-208.2	-0.0112 mg/L	-0.2667 mg/L	16:34:02
1	Na 330.237†	542.3	-601.9	-0.2667 mg/L	0.4326 mg/L	16:34:22
1	Ni 231.604†	24428.6	24712.1	0.4326 mg/L	0.4281 mg/L	16:34:22
1	Pb 220.353†	3535.4	3749.7	0.4281 mg/L	-0.0057 mg/L	16:34:22
1	Sb 206.836†	66.4	-11.7	-0.0057 mg/L	-0.0263 mg/L	16:34:22
1	Se 196.026†	-25.3	-17.5	-0.0263 mg/L	0.0132 mg/L	16:34:22
1	Sn 189.927†	135.7	63.6	0.0132 mg/L	0.0051 mg/L	16:34:02
1	Ti 337.279†	5208.5	4414.5	0.0051 mg/L		

1	Tl 190.801†	5.8	17.6	0.0322 mg/L	0.0322 mg/L	16:34:22
1	V 292.402†	57641.9	56704.5	0.2326 mg/L	0.2326 mg/L	16:34:02
1	Zn 213.857†	43225.3	43411.4	0.4625 mg/L	0.4625 mg/L	16:34:02
2	Y 360.073	2373097.2	2373097.2			16:34:43
2	Ag 328.068†	161089.8	166697.9	0.4960 mg/L	0.4960 mg/L	16:34:48
2	Al 237.313†	2146596.1	2212538.0	245.9 mg/L	245.9 mg/L	16:34:43
2	As 188.979†	3.7	2.9	0.0016 mg/L	0.0016 mg/L	16:35:09
2	B 182.528†	2.5	36.2	0.0287 mg/L	0.0287 mg/L	16:35:09
2	Ba 233.527†	40395.3	41785.3	0.2286 mg/L	0.2286 mg/L	16:34:48
2	Be 313.107†	1471396.4	1511248.1	0.2405 mg/L	0.2405 mg/L	16:34:43
2	Ca 315.886†	34365527.7	35413030.5	238.5 mg/L	238.5 mg/L	16:34:35
2	Cd 228.802†	36393.9	37114.7	0.4438 mg/L	0.4438 mg/L	16:34:48
2	Co 228.616†	14351.4	15183.7	0.2118 mg/L	0.2118 mg/L	16:35:09
2	Cr 267.716†	35415.9	34736.1	0.2333 mg/L	0.2333 mg/L	16:34:48
2	Cu 324.752†	40894.3	40688.2	0.2254 mg/L	0.2254 mg/L	16:34:48
2	Fe 238.204†	10392593.3	10709324.6	84.89 mg/L	84.89 mg/L	16:34:35
2	Fe 234.349†	3580793.2	3690037.9	90.08 mg/L	90.08 mg/L	16:34:43
2	Mg 279.077†	5143401.9	5300638.3	240.7 mg/L	240.7 mg/L	16:34:43
2	Mn 257.610†	227039.9	233131.4	0.2346 mg/L	0.2346 mg/L	16:34:48
2	Mo 202.031†	-202.4	-216.6	-0.0118 mg/L	-0.0118 mg/L	16:35:09
2	Na 330.237†	486.2	-657.5	-0.3825 mg/L	-0.3825 mg/L	16:34:48
2	Ni 231.604†	24400.9	24785.1	0.4339 mg/L	0.4339 mg/L	16:35:09
2	Pb 220.353†	3533.2	3762.1	0.4294 mg/L	0.4294 mg/L	16:35:09
2	Sb 206.836†	64.6	-13.3	-0.0062 mg/L	-0.0062 mg/L	16:35:09
2	Se 196.026†	-24.9	-17.3	-0.0260 mg/L	-0.0260 mg/L	16:35:09
2	Sn 189.927†	155.0	84.1	0.0197 mg/L	0.0197 mg/L	16:35:09
2	Ti 337.279†	5286.9	4517.0	0.0052 mg/L	0.0052 mg/L	16:34:48
2	Tl 190.801†	6.7	18.6	0.0331 mg/L	0.0331 mg/L	16:35:09
2	V 292.402†	58115.5	57432.3	0.2356 mg/L	0.2356 mg/L	16:34:48
2	Zn 213.857†	43667.5	44046.7	0.4694 mg/L	0.4694 mg/L	16:34:48

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2377903.6						6797.36	0.29%
Ag 328.068†	165667.6	0.4930 mg/L		0.00433	0.4930 mg/L		0.00433	0.88%
QC value within limits for Ag 328.068			Recovery = 98.59%					
Al 237.313†	2213920.4	246.1 mg/L		0.22	246.1 mg/L		0.22	0.09%
QC value within limits for Al 237.313			Recovery = 98.43%					
As 188.979†	9.5	0.0071 mg/L		0.00780	0.0071 mg/L		0.00780	109.33%
QC value within limits for As 188.979			Recovery = Not calculated					
B 182.528†	34.2	0.0271 mg/L		0.00233	0.0271 mg/L		0.00233	8.59%
QC value within limits for B 182.528			Recovery = Not calculated					
Ba 233.527†	41547.3	0.2273 mg/L		0.00185	0.2273 mg/L		0.00185	0.82%
QC value within limits for Ba 233.527			Recovery = 90.93%					
Be 313.107†	1510454.2	0.2404 mg/L		0.00018	0.2404 mg/L		0.00018	0.07%
QC value within limits for Be 313.107			Recovery = 96.15%					
Ca 315.886†	35282198.5	237.6 mg/L		1.25	237.6 mg/L		1.25	0.52%
QC value within limits for Ca 315.886			Recovery = 95.05%					
Cd 228.802†	36935.0	0.4417 mg/L		0.00307	0.4417 mg/L		0.00307	0.70%
QC value within limits for Cd 228.802			Recovery = 88.33%					
Co 228.616†	15159.4	0.2114 mg/L		0.00048	0.2114 mg/L		0.00048	0.23%
QC value within limits for Co 228.616			Recovery = 84.57%					
Cr 267.716†	34519.5	0.2319 mg/L		0.00204	0.2319 mg/L		0.00204	0.88%
QC value within limits for Cr 267.716			Recovery = 92.74%					
Cu 324.752†	40378.5	0.2236 mg/L		0.00243	0.2236 mg/L		0.00243	1.09%
QC value within limits for Cu 324.752			Recovery = 89.46%					
Fe 238.204†	10671677.2	84.59 mg/L		0.422	84.59 mg/L		0.422	0.50%
QC value within limits for Fe 238.204			Recovery = 84.59%					
Fe 234.349†	3684550.0	89.94 mg/L		0.189	89.94 mg/L		0.189	0.21%
QC value within limits for Fe 234.349			Recovery = 89.94%					
Mg 279.077†	5293668.8	240.4 mg/L		0.45	240.4 mg/L		0.45	0.19%
QC value within limits for Mg 279.077			Recovery = 96.15%					
Mn 257.610†	231802.2	0.2332 mg/L		0.00189	0.2332 mg/L		0.00189	0.81%
QC value within limits for Mn 257.610			Recovery = 93.29%					
Mo 202.031†	-212.4	-0.0115 mg/L		0.00044	-0.0115 mg/L		0.00044	3.81%
QC value within limits for Mo 202.031			Recovery = Not calculated					
Na 330.237†	-629.7	-0.3246 mg/L		0.08183	-0.3246 mg/L		0.08183	25.21%
QC value within limits for Na 330.237			Recovery = Not calculated					
Ni 231.604†	24748.6	0.4332 mg/L		0.00091	0.4332 mg/L		0.00091	0.21%



Pb	220.353†	3755.9	0.4287 mg/L	0.00094	0.4287 mg/L	0.00094	0.22%
QC value within limits for Ni 231.604 Recovery = 86.65%							
Sb	206.836†	-12.5	-0.0059 mg/L	0.00034	-0.0059 mg/L	0.00034	5.66%
QC value within limits for Pb 220.353 Recovery = 85.75%							
Se	196.026†	-17.4	-0.0261 mg/L	0.00024	-0.0261 mg/L	0.00024	0.91%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Sn	189.927†	73.8	0.0164 mg/L	0.00456	0.0164 mg/L	0.00456	27.73%
QC value within limits for Se 196.026 Recovery = Not calculated							
Ti	337.279†	4465.8	0.0051 mg/L	0.00010	0.0051 mg/L	0.00010	1.87%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Tl	190.801†	18.1	0.0326 mg/L	0.00066	0.0326 mg/L	0.00066	2.02%
QC value within limits for Ti 337.279 Recovery = Not calculated							
V	292.402†	57068.4	0.2341 mg/L	0.00211	0.2341 mg/L	0.00211	0.90%
QC value within limits for Tl 190.801 Recovery = Not calculated							
Zn	213.857†	43729.1	0.4660 mg/L	0.00482	0.4660 mg/L	0.00482	1.03%
QC value within limits for V 292.402 Recovery = 93.65%							
QC value within limits for Zn 213.857 Recovery = 93.19%							

All analyte(s) passed QC.

Sequence No.: 9  
 Sample ID: CCV  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 3  
 Date Collected: 6/22/2006 4:36:47 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2474851.2	2474851.2			16:38:20
1	Ag 328.068†	84126.9	83817.5	0.2496 mg/L	0.2496 mg/L	16:38:26
1	Al 237.313†	22501.2	22553.6	2.493 mg/L	2.493 mg/L	16:38:26
1	As 188.979†	609.9	601.8	0.5037 mg/L	0.5037 mg/L	16:38:46
1	B 182.528†	597.4	623.9	0.5034 mg/L	0.5034 mg/L	16:38:46
1	Ba 233.527†	91652.0	90725.5	0.4981 mg/L	0.4981 mg/L	16:38:26
1	Be 313.107†	326650.9	317665.4	0.0504 mg/L	0.0504 mg/L	16:38:20
1	Ca 315.886†	767537.3	755387.7	5.073 mg/L	5.073 mg/L	16:38:20
1	Cd 228.802†	21452.7	20807.8	0.2480 mg/L	0.2480 mg/L	16:38:26
1	Co 228.616†	35714.6	35686.7	0.4996 mg/L	0.4996 mg/L	16:38:26
1	Cr 267.716†	78393.3	75705.6	0.5002 mg/L	0.5002 mg/L	16:38:26
1	Cu 324.752†	91305.7	88771.9	0.4921 mg/L	0.4921 mg/L	16:38:26
1	Fe 238.204†	324455.7	319644.3	2.527 mg/L	2.527 mg/L	16:38:26
1	Fe 234.349†	104941.9	103479.2	2.517 mg/L	2.517 mg/L	16:38:26
1	Mg 279.077†	111726.6	110404.7	5.012 mg/L	5.012 mg/L	16:38:26
1	Mn 257.610†	514036.2	507120.7	0.5067 mg/L	0.5067 mg/L	16:38:20
1	Mo 202.031†	6659.9	6573.3	0.5014 mg/L	0.5014 mg/L	16:38:46
1	Na 330.237†	12505.4	11199.2	24.10 mg/L	24.10 mg/L	16:38:26
1	Ni 231.604†	29236.7	28529.9	0.4996 mg/L	0.4996 mg/L	16:38:26
1	Pb 220.353†	4481.4	4549.4	0.5015 mg/L	0.5015 mg/L	16:38:46
1	Sb 206.836†	1915.9	1813.4	0.4918 mg/L	0.4918 mg/L	16:38:46
1	Se 196.026†	717.6	717.6	1.002 mg/L	1.002 mg/L	16:38:46
1	Sn 189.927†	1703.2	1607.4	0.5011 mg/L	0.5011 mg/L	16:38:46
1	Ti 337.279†	386775.6	381279.8	0.5060 mg/L	0.5060 mg/L	16:38:20
1	Tl 190.801†	468.6	474.8	0.4500 mg/L	0.4500 mg/L	16:38:46
1	V 292.402†	126226.2	122276.8	0.5017 mg/L	0.5017 mg/L	16:38:26
1	Zn 213.857†	48112.2	46588.7	0.4965 mg/L	0.4965 mg/L	16:38:26
2	Y 360.073	2473426.3	2473426.3			16:38:53
2	Ag 328.068†	83956.7	83697.1	0.2492 mg/L	0.2492 mg/L	16:38:58
2	Al 237.313†	22503.4	22568.6	2.495 mg/L	2.495 mg/L	16:38:58
2	As 188.979†	609.1	601.3	0.5033 mg/L	0.5033 mg/L	16:39:18
2	B 182.528†	600.7	627.6	0.5063 mg/L	0.5063 mg/L	16:39:18
2	Ba 233.527†	91562.1	90688.7	0.4979 mg/L	0.4979 mg/L	16:38:58
2	Be 313.107†	326118.0	317324.5	0.0504 mg/L	0.0504 mg/L	16:38:53
2	Ca 315.886†	765934.8	754240.2	5.065 mg/L	5.065 mg/L	16:38:53
2	Cd 228.802†	21366.5	20734.8	0.2471 mg/L	0.2471 mg/L	16:38:58
2	Co 228.616†	35672.1	35665.0	0.4993 mg/L	0.4993 mg/L	16:38:58
2	Cr 267.716†	78365.5	75722.7	0.5003 mg/L	0.5003 mg/L	16:38:58
2	Cu 324.752†	91543.9	89059.4	0.4937 mg/L	0.4937 mg/L	16:38:58
2	Fe 238.204†	324459.6	319832.9	2.529 mg/L	2.529 mg/L	16:38:58
2	Fe 234.349†	104859.8	103457.8	2.516 mg/L	2.516 mg/L	16:38:58

2	Mg 279.077†	111477.4	110221.9	5.003 mg/L	5.003 mg/L	16:38:58
2	Mn 257.610†	513363.2	506748.0	0.5064 mg/L	0.5064 mg/L	16:38:53
2	Mo 202.031†	6683.0	6600.0	0.5035 mg/L	0.5035 mg/L	16:39:18
2	Na 330.237†	12449.5	11151.1	24.00 mg/L	24.00 mg/L	16:38:58
2	Ni 231.604†	29279.2	28588.6	0.5006 mg/L	0.5006 mg/L	16:38:58
2	Pb 220.353†	4489.1	4559.6	0.5026 mg/L	0.5026 mg/L	16:39:18
2	Sb 206.836†	1916.7	1815.2	0.4923 mg/L	0.4923 mg/L	16:39:18
2	Se 196.026†	721.4	721.7	1.008 mg/L	1.008 mg/L	16:39:18
2	Sn 189.927†	1708.5	1613.6	0.5030 mg/L	0.5030 mg/L	16:39:18
2	Ti 337.279†	386351.4	381080.5	0.5057 mg/L	0.5057 mg/L	16:38:53
2	Tl 190.801†	489.5	495.7	0.4691 mg/L	0.4691 mg/L	16:39:18
2	V 292.402†	126033.7	122158.2	0.5012 mg/L	0.5012 mg/L	16:38:58
2	Zn 213.857†	48163.8	46667.1	0.4974 mg/L	0.4974 mg/L	16:38:58

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2474138.7				1007.56	0.04%
Ag 328.068†	83757.3	0.2494 mg/L	0.00025	0.2494 mg/L	0.00025	0.10%
QC value within limits for Ag 328.068		Recovery = 99.76%				
Al 237.313†	22561.1	2.494 mg/L	0.0012	2.494 mg/L	0.0012	0.05%
QC value within limits for Al 237.313		Recovery = 99.77%				
As 188.979†	601.6	0.5035 mg/L	0.00029	0.5035 mg/L	0.00029	0.06%
QC value within limits for As 188.979		Recovery = 100.70%				
B 182.528†	625.8	0.5048 mg/L	0.00207	0.5048 mg/L	0.00207	0.41%
QC value within limits for B 182.528		Recovery = 100.96%				
Ba 233.527†	90707.1	0.4980 mg/L	0.00014	0.4980 mg/L	0.00014	0.03%
QC value within limits for Ba 233.527		Recovery = 99.59%				
Be 313.107†	317495.0	0.0504 mg/L	0.00004	0.0504 mg/L	0.00004	0.08%
QC value within limits for Be 313.107		Recovery = 100.80%				
Ca 315.886†	754814.0	5.069 mg/L	0.0055	5.069 mg/L	0.0055	0.11%
QC value within limits for Ca 315.886		Recovery = 101.38%				
Cd 228.802†	20771.3	0.2475 mg/L	0.00062	0.2475 mg/L	0.00062	0.25%
QC value within limits for Cd 228.802		Recovery = 99.02%				
Co 228.616†	35675.8	0.4995 mg/L	0.00022	0.4995 mg/L	0.00022	0.04%
QC value within limits for Co 228.616		Recovery = 99.90%				
Cr 267.716†	75714.2	0.5002 mg/L	0.00008	0.5002 mg/L	0.00008	0.02%
QC value within limits for Cr 267.716		Recovery = 100.04%				
Cu 324.752†	88915.7	0.4929 mg/L	0.00113	0.4929 mg/L	0.00113	0.23%
QC value within limits for Cu 324.752		Recovery = 98.58%				
Fe 238.204†	319738.6	2.528 mg/L	0.0011	2.528 mg/L	0.0011	0.04%
QC value within limits for Fe 238.204		Recovery = 101.13%				
Fe 234.349†	103468.5	2.516 mg/L	0.0004	2.516 mg/L	0.0004	0.01%
QC value within limits for Fe 234.349		Recovery = 100.65%				
Mg 279.077†	110313.3	5.007 mg/L	0.0059	5.007 mg/L	0.0059	0.12%
QC value within limits for Mg 279.077		Recovery = 100.15%				
Mn 257.610†	506934.3	0.5065 mg/L	0.00026	0.5065 mg/L	0.00026	0.05%
QC value within limits for Mn 257.610		Recovery = 101.31%				
Mo 202.031†	6586.6	0.5024 mg/L	0.00144	0.5024 mg/L	0.00144	0.29%
QC value within limits for Mo 202.031		Recovery = 100.49%				
Na 330.237†	11175.2	24.05 mg/L	0.071	24.05 mg/L	0.071	0.30%
QC value within limits for Na 330.237		Recovery = 96.19%				
Ni 231.604†	28559.2	0.5001 mg/L	0.00073	0.5001 mg/L	0.00073	0.15%
QC value within limits for Ni 231.604		Recovery = 100.02%				
Pb 220.353†	4554.5	0.5021 mg/L	0.00080	0.5021 mg/L	0.00080	0.16%
QC value within limits for Pb 220.353		Recovery = 100.42%				
Sb 206.836†	1814.3	0.4921 mg/L	0.00036	0.4921 mg/L	0.00036	0.07%
QC value within limits for Sb 206.836		Recovery = 98.41%				
Se 196.026†	719.7	1.005 mg/L	0.0041	1.005 mg/L	0.0041	0.41%
QC value within limits for Se 196.026		Recovery = 100.52%				
Sn 189.927†	1610.5	0.5020 mg/L	0.00138	0.5020 mg/L	0.00138	0.27%
QC value within limits for Sn 189.927		Recovery = 100.41%				
Ti 337.279†	381180.2	0.5058 mg/L	0.00019	0.5058 mg/L	0.00019	0.04%
QC value within limits for Ti 337.279		Recovery = 101.17%				
Tl 190.801†	485.2	0.4595 mg/L	0.01350	0.4595 mg/L	0.01350	2.94%
QC value within limits for Tl 190.801		Recovery = 91.90%				
V 292.402†	122217.5	0.5015 mg/L	0.00034	0.5015 mg/L	0.00034	0.07%
QC value within limits for V 292.402		Recovery = 100.30%				
Zn 213.857†	46627.9	0.4969 mg/L	0.00059	0.4969 mg/L	0.00059	0.12%
QC value within limits for Zn 213.857		Recovery = 99.39%				

All analyte(s) passed QC.

Sequence No.: 10  
 Sample ID: ICCB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 1  
 Date Collected: 6/22/2006 4:40:56 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2449096.9	2449096.9			16:42:27
1	Ag 328.068†	-657.5	26.7	0.0003 mg/L	0.0003 mg/L	16:42:32
1	Al 237.313†	-207.0	111.2	0.0116 mg/L	0.0116 mg/L	16:42:53
1	As 188.979†	-0.3	-1.2	-0.0017 mg/L	-0.0017 mg/L	16:42:53
1	B 182.528†	-31.1	2.6	0.0015 mg/L	0.0015 mg/L	16:42:53
1	Ba 233.527†	-121.4	33.8	-0.0012 mg/L	-0.0012 mg/L	16:42:53
1	Be 313.107†	5368.3	230.1	-0.0001 mg/L	-0.0001 mg/L	16:42:32
1	Ca 315.886†	5427.3	2327.8	0.0001 mg/L	0.0001 mg/L	16:42:32
1	Cd 228.802†	401.1	8.8	0.0003 mg/L	0.0003 mg/L	16:42:53
1	Co 228.616†	-383.8	10.2	-0.0018 mg/L	-0.0018 mg/L	16:42:53
1	Cr 267.716†	1766.2	1.2	-0.0012 mg/L	-0.0012 mg/L	16:42:32
1	Cu 324.752†	1513.1	54.7	0.0001 mg/L	0.0001 mg/L	16:42:32
1	Fe 238.204†	3574.8	2587.2	0.0131 mg/L	0.0131 mg/L	16:42:32
1	Fe 234.349†	1042.1	816.3	0.0150 mg/L	0.0150 mg/L	16:42:53
1	Mg 279.077†	583.8	579.5	0.0240 mg/L	0.0240 mg/L	16:42:32
1	Mn 257.610†	985.4	134.7	-0.0025 mg/L	-0.0025 mg/L	16:42:32
1	Mo 202.031†	26.7	18.7	-0.0002 mg/L	-0.0002 mg/L	16:42:53
1	Na 330.237†	1141.2	-19.0	0.6162 mg/L	0.6162 mg/L	16:42:32
1	Ni 231.604†	399.5	37.1	-0.0013 mg/L	-0.0013 mg/L	16:42:53
1	Pb 220.353†	-113.6	7.4	-0.0008 mg/L	-0.0008 mg/L	16:42:53
1	Sb 206.836†	75.8	-4.2	-0.0009 mg/L	-0.0009 mg/L	16:42:53
1	Se 196.026†	-3.3	5.2	0.0054 mg/L	0.0054 mg/L	16:42:53
1	Sn 189.927†	75.7	-0.0	-0.0069 mg/L	-0.0069 mg/L	16:42:53
1	Ti 337.279†	1013.3	80.4	-0.0007 mg/L	-0.0007 mg/L	16:42:32
1	Tl 190.801†	8.2	19.8	0.0347 mg/L	0.0347 mg/L	16:42:53
1	V 292.402†	2380.8	-82.5	-0.0007 mg/L	-0.0007 mg/L	16:42:32
1	Zn 213.857†	1059.1	101.9	0.0004 mg/L	0.0004 mg/L	16:42:53
2	Y 360.073	2474476.0	2474476.0			16:42:58
2	Ag 328.068†	-589.2	101.0	0.0005 mg/L	0.0005 mg/L	16:43:04
2	Al 237.313†	-205.2	115.0	0.0121 mg/L	0.0121 mg/L	16:43:24
2	As 188.979†	-0.2	-1.1	-0.0016 mg/L	-0.0016 mg/L	16:43:24
2	B 182.528†	-25.2	8.7	0.0065 mg/L	0.0065 mg/L	16:43:24
2	Ba 233.527†	-137.5	19.2	-0.0013 mg/L	-0.0013 mg/L	16:43:24
2	Be 313.107†	5395.3	201.8	-0.0001 mg/L	-0.0001 mg/L	16:43:04
2	Ca 315.886†	5006.5	1856.3	-0.0030 mg/L	-0.0030 mg/L	16:43:04
2	Cd 228.802†	401.3	4.8	0.0003 mg/L	0.0003 mg/L	16:43:24
2	Co 228.616†	-400.5	-2.3	-0.0020 mg/L	-0.0020 mg/L	16:43:24
2	Cr 267.716†	1804.8	21.2	-0.0010 mg/L	-0.0010 mg/L	16:43:04
2	Cu 324.752†	1497.7	23.9	0.0000 mg/L	0.0000 mg/L	16:43:04
2	Fe 238.204†	3444.1	2421.5	0.0118 mg/L	0.0118 mg/L	16:43:04
2	Fe 234.349†	990.2	754.4	0.0135 mg/L	0.0135 mg/L	16:43:24
2	Mg 279.077†	456.7	447.9	0.0180 mg/L	0.0180 mg/L	16:43:04
2	Mn 257.610†	1012.1	150.9	-0.0024 mg/L	-0.0024 mg/L	16:43:04
2	Mo 202.031†	30.8	22.4	0.0000 mg/L	0.0000 mg/L	16:43:24
2	Na 330.237†	1112.5	-59.0	0.5325 mg/L	0.5325 mg/L	16:43:04
2	Ni 231.604†	408.7	42.1	-0.0012 mg/L	-0.0012 mg/L	16:43:24
2	Pb 220.353†	-101.5	20.6	0.0006 mg/L	0.0006 mg/L	16:43:24
2	Sb 206.836†	79.1	-1.7	-0.0002 mg/L	-0.0002 mg/L	16:43:24
2	Se 196.026†	-3.5	5.0	0.0052 mg/L	0.0052 mg/L	16:43:24
2	Sn 189.927†	57.8	-18.5	-0.0127 mg/L	-0.0127 mg/L	16:43:24
2	Ti 337.279†	1049.0	105.3	-0.0007 mg/L	-0.0007 mg/L	16:43:04
2	Tl 190.801†	4.4	16.0	0.0313 mg/L	0.0313 mg/L	16:43:24
2	V 292.402†	2378.0	-109.6	-0.0008 mg/L	-0.0008 mg/L	16:43:04
2	Zn 213.857†	1040.4	72.6	0.0001 mg/L	0.0001 mg/L	16:43:24

## Mean Data: ICCB

Mean Corrected

Calib

Sample

Analyte	Intensity	Conc. Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	2461786.4				17945.73	0.73%
Ag 328.068†	63.8	0.0004 mg/L	0.00016	0.0004 mg/L	0.00016	38.79%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	113.1	0.0118 mg/L	0.00031	0.0118 mg/L	0.00031	2.64%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	-1.2	-0.0017 mg/L	0.00007	-0.0017 mg/L	0.00007	4.29%
QC value within limits for As 188.979 Recovery = Not calculated						
B 182.528†	5.6	0.0040 mg/L	0.00352	0.0040 mg/L	0.00352	87.42%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	26.5	-0.0013 mg/L	0.00006	-0.0013 mg/L	0.00006	4.55%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	216.0	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	4.03%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.886†	2092.0	-0.0014 mg/L	0.00225	-0.0014 mg/L	0.00225	155.66%
QC value within limits for Ca 315.886 Recovery = Not calculated						
Cd 228.802†	6.8	0.0003 mg/L	0.00003	0.0003 mg/L	0.00003	10.46%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	4.0	-0.0019 mg/L	0.00012	-0.0019 mg/L	0.00012	6.47%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	11.2	-0.0011 mg/L	0.00009	-0.0011 mg/L	0.00009	8.46%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	39.3	0.0000 mg/L	0.00012	0.0000 mg/L	0.00012	328.10%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204†	2504.3	0.0125 mg/L	0.00093	0.0125 mg/L	0.00093	7.45%
QC value within limits for Fe 238.204 Recovery = Not calculated						
Fe 234.349†	785.3	0.0143 mg/L	0.00107	0.0143 mg/L	0.00107	7.49%
QC value within limits for Fe 234.349 Recovery = Not calculated						
Mg 279.077†	513.7	0.0210 mg/L	0.00423	0.0210 mg/L	0.00423	20.13%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	142.8	-0.0025 mg/L	0.00001	-0.0025 mg/L	0.00001	0.47%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	20.5	-0.0001 mg/L	0.00020	-0.0001 mg/L	0.00020	198.35%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 330.237†	-39.0	0.5744 mg/L	0.05920	0.5744 mg/L	0.05920	10.31%
QC value within limits for Na 330.237 Recovery = Not calculated						
Ni 231.604†	39.6	-0.0013 mg/L	0.00006	-0.0013 mg/L	0.00006	4.84%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	14.0	-0.0001 mg/L	0.00103	-0.0001 mg/L	0.00103	931.68%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-2.9	-0.0005 mg/L	0.00048	-0.0005 mg/L	0.00048	94.32%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	5.1	0.0053 mg/L	0.00015	0.0053 mg/L	0.00015	2.85%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-9.3	-0.0098 mg/L	0.00412	-0.0098 mg/L	0.00412	42.18%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	92.8	-0.0007 mg/L	0.00002	-0.0007 mg/L	0.00002	3.49%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	17.9	0.0330 mg/L	0.00246	0.0330 mg/L	0.00246	7.45%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated						
V 292.402†	-96.0	-0.0007 mg/L	0.00008	-0.0007 mg/L	0.00008	10.42%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	87.3	0.0003 mg/L	0.00022	0.0003 mg/L	0.00022	79.38%
QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 11  
Sample ID: BF62206-BLK1  
Analyst:  
Initial Sample Wt:  
Dilution:

Autosampler Location: 9  
Date Collected: 6/22/2006 4:45:00 PM  
Data Type: Original  
Initial Sample Vol:  
Sample Prep Vol:

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Replicate Data: BF62206-BLK1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2470747.9	2470747.9			16:46:32
1	Ag 328.068†	-634.9	54.9	0.0004 mg/L	0.0004 mg/L	16:46:37
1	Al 237.313†	-211.3	108.8	0.0112 mg/L	0.0112 mg/L	16:46:57
1	As 188.979†	0.6	-0.3	-0.0010 mg/L	-0.0010 mg/L	16:46:57

1	B 182.528†	-28.1	5.8	0.0042 mg/L	0.0042 mg/L	16:46:57
1	Ba 233.527†	-123.0	33.4	-0.0012 mg/L	-0.0012 mg/L	16:46:57
1	Be 313.107†	5340.6	155.7	-0.0001 mg/L	-0.0001 mg/L	16:46:37
1	Ca 315.886†	10659.4	7459.3	0.0347 mg/L	0.0347 mg/L	16:46:37
1	Cd 228.802†	377.7	-17.9	0.0000 mg/L	0.0000 mg/L	16:46:57
1	Co 228.616†	-391.2	6.3	-0.0019 mg/L	-0.0019 mg/L	16:46:57
1	Cr 267.716†	1755.0	-25.4	-0.0014 mg/L	-0.0014 mg/L	16:46:37
1	Cu 324.752†	1592.9	120.4	0.0005 mg/L	0.0005 mg/L	16:46:37
1	Fe 238.204†	5648.2	4608.4	0.0292 mg/L	0.0292 mg/L	16:46:37
1	Fe 234.349†	1686.8	1445.4	0.0304 mg/L	0.0304 mg/L	16:46:57
1	Mg 279.077†	417.4	409.8	0.0162 mg/L	0.0162 mg/L	16:46:37
1	Mn 257.610†	1128.9	268.0	-0.0023 mg/L	-0.0023 mg/L	16:46:37
1	Mo 202.031†	12.5	4.5	-0.0013 mg/L	-0.0013 mg/L	16:46:57
1	Na 330.237†	1110.0	-59.8	0.5307 mg/L	0.5307 mg/L	16:46:37
1	Ni 231.604†	399.4	33.6	-0.0014 mg/L	-0.0014 mg/L	16:46:57
1	Pb 220.353†	-115.3	6.7	-0.0009 mg/L	-0.0009 mg/L	16:46:57
1	Sb 206.836†	81.3	0.6	0.0005 mg/L	0.0005 mg/L	16:46:57
1	Se 196.026†	-10.2	-1.7	-0.0041 mg/L	-0.0041 mg/L	16:46:57
1	Sn 189.927†	66.4	-10.0	-0.0100 mg/L	-0.0100 mg/L	16:46:57
1	Ti 337.279†	988.1	46.5	-0.0007 mg/L	-0.0007 mg/L	16:46:37
1	Tl 190.801†	-1.9	9.8	0.0256 mg/L	0.0256 mg/L	16:46:57
1	V 292.402†	2440.6	-44.0	-0.0005 mg/L	-0.0005 mg/L	16:46:37
1	Zn 213.857†	1231.7	263.5	0.0022 mg/L	0.0022 mg/L	16:46:57
2	Y 360.073	2493500.7	2493500.7			16:47:03
2	Ag 328.068†	-581.6	112.8	0.0005 mg/L	0.0005 mg/L	16:47:08
2	Al 237.313†	-217.7	104.4	0.0108 mg/L	0.0108 mg/L	16:47:28
2	As 188.979†	-1.3	-2.2	-0.0025 mg/L	-0.0025 mg/L	16:47:28
2	B 182.528†	-28.6	5.6	0.0040 mg/L	0.0040 mg/L	16:47:28
2	Ba 233.527†	-114.9	42.4	-0.0012 mg/L	-0.0012 mg/L	16:47:28
2	Be 313.107†	5268.3	36.5	-0.0001 mg/L	-0.0001 mg/L	16:47:08
2	Ca 315.886†	10603.3	7308.0	0.0337 mg/L	0.0337 mg/L	16:47:08
2	Cd 228.802†	387.4	-11.8	0.0001 mg/L	0.0001 mg/L	16:47:28
2	Co 228.616†	-382.2	18.6	-0.0017 mg/L	-0.0017 mg/L	16:47:28
2	Cr 267.716†	1754.0	-42.2	-0.0015 mg/L	-0.0015 mg/L	16:47:08
2	Cu 324.752†	1532.1	46.4	0.0001 mg/L	0.0001 mg/L	16:47:08
2	Fe 238.204†	5510.6	4422.3	0.0277 mg/L	0.0277 mg/L	16:47:08
2	Fe 234.349†	1628.4	1372.8	0.0286 mg/L	0.0286 mg/L	16:47:28
2	Mg 279.077†	406.0	394.8	0.0156 mg/L	0.0156 mg/L	16:47:08
2	Mn 257.610†	1125.8	254.8	-0.0023 mg/L	-0.0023 mg/L	16:47:08
2	Mo 202.031†	26.2	17.8	-0.0003 mg/L	-0.0003 mg/L	16:47:28
2	Na 330.237†	1126.9	-53.3	0.5444 mg/L	0.5444 mg/L	16:47:08
2	Ni 231.604†	391.3	22.0	-0.0016 mg/L	-0.0016 mg/L	16:47:28
2	Pb 220.353†	-101.5	21.3	0.0007 mg/L	0.0007 mg/L	16:47:28
2	Sb 206.836†	75.6	-5.7	-0.0013 mg/L	-0.0013 mg/L	16:47:28
2	Se 196.026†	-4.5	4.0	0.0037 mg/L	0.0037 mg/L	16:47:28
2	Sn 189.927†	67.2	-9.8	-0.0099 mg/L	-0.0099 mg/L	16:47:28
2	Ti 337.279†	1067.1	115.0	-0.0006 mg/L	-0.0006 mg/L	16:47:08
2	Tl 190.801†	-2.2	9.5	0.0253 mg/L	0.0253 mg/L	16:47:28
2	V 292.402†	2353.5	-151.5	-0.0010 mg/L	-0.0010 mg/L	16:47:08
2	Zn 213.857†	1235.3	255.9	0.0021 mg/L	0.0021 mg/L	16:47:28

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Mean Data: BF62206-BLK1

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		RSD
	Intensity				Conc.	Units	
Y 360.073	2482124.3					16088.62	0.65%
Ag 328.068†	83.9	0.0005 mg/L	0.00012	0.0005 mg/L	0.00012	26.35%	
Al 237.313†	106.6	0.0110 mg/L	0.00033	0.0110 mg/L	0.00033	3.02%	
As 188.979†	-1.2	-0.0017 mg/L	0.00111	-0.0017 mg/L	0.00111	63.83%	
B 182.528†	5.7	0.0041 mg/L	0.00010	0.0041 mg/L	0.00010	2.55%	
Ba 233.527†	37.9	-0.0012 mg/L	0.00004	-0.0012 mg/L	0.00004	2.98%	
Be 313.107†	96.1	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	13.70%	
Ca 315.886†	7383.6	0.0342 mg/L	0.00072	0.0342 mg/L	0.00072	2.11%	
Cd 228.802†	-14.8	0.0001 mg/L	0.00005	0.0001 mg/L	0.00005	90.79%	
Co 228.616†	12.5	-0.0018 mg/L	0.00012	-0.0018 mg/L	0.00012	6.79%	
Cr 267.716†	-33.8	-0.0014 mg/L	0.00008	-0.0014 mg/L	0.00008	5.62%	
Cu 324.752†	83.4	0.0003 mg/L	0.00029	0.0003 mg/L	0.00029	103.27%	
Fe 238.204†	4515.3	0.0284 mg/L	0.00104	0.0284 mg/L	0.00104	3.67%	
Fe 234.349†	1409.1	0.0295 mg/L	0.00125	0.0295 mg/L	0.00125	4.24%	
Mg 279.077†	402.3	0.0159 mg/L	0.00048	0.0159 mg/L	0.00048	3.01%	
Mn 257.610†	261.4	-0.0023 mg/L	0.00001	-0.0023 mg/L	0.00001	0.40%	

Mo 202.031†	11.1	-0.0008 mg/L	0.00072	-0.0008 mg/L	0.00072	87.32%
Na 330.237†	-56.5	0.5376 mg/L	0.00965	0.5376 mg/L	0.00965	1.80%
Ni 231.604†	27.8	-0.0015 mg/L	0.00014	-0.0015 mg/L	0.00014	9.67%
Pb 220.353†	14.0	-0.0001 mg/L	0.00114	-0.0001 mg/L	0.00114	>999.9%
Sb 206.836†	-2.6	-0.0004 mg/L	0.00123	-0.0004 mg/L	0.00123	303.76%
Se 196.026†	1.2	-0.0002 mg/L	0.00558	-0.0002 mg/L	0.00558	>999.9%
Sn 189.927†	-9.9	-0.0100 mg/L	0.00004	-0.0100 mg/L	0.00004	0.37%
Ti 337.279†	80.8	-0.0007 mg/L	0.00006	-0.0007 mg/L	0.00006	9.39%
Tl 190.801†	9.7	0.0255 mg/L	0.00018	0.0255 mg/L	0.00018	0.71%
V 292.402†	-97.8	-0.0008 mg/L	0.00031	-0.0008 mg/L	0.00031	41.28%
Zn 213.857†	259.7	0.0021 mg/L	0.00006	0.0021 mg/L	0.00006	2.65%

Sequence No.: 12  
 Sample ID: BF62206-BS1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 10  
 Date Collected: 6/22/2006 4:49:04 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: BF62206-BS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2490892.4	2490892.4			16:50:37
1	Ag 328.068†	88561.1	87635.7	0.2609 mg/L	0.2609 mg/L	16:50:43
1	Al 237.313†	23127.8	23025.6	2.545 mg/L	2.545 mg/L	16:50:43
1	As 188.979†	612.7	600.6	0.5027 mg/L	0.5027 mg/L	16:51:03
1	B 182.528†	606.4	629.0	0.5075 mg/L	0.5075 mg/L	16:51:03
1	Ba 233.527†	94447.6	92887.0	0.5100 mg/L	0.5100 mg/L	16:50:43
1	Be 313.107†	340315.2	329002.8	0.0522 mg/L	0.0522 mg/L	16:50:37
1	Ca 315.886†	800962.0	783320.7	5.261 mg/L	5.261 mg/L	16:50:37
1	Cd 228.802†	22289.6	21493.0	0.2562 mg/L	0.2562 mg/L	16:50:43
1	Co 228.616†	36948.3	36670.6	0.5135 mg/L	0.5135 mg/L	16:50:43
1	Cr 267.716†	82217.8	78961.8	0.5217 mg/L	0.5217 mg/L	16:50:43
1	Cu 324.752†	97151.1	93930.1	0.5207 mg/L	0.5207 mg/L	16:50:43
1	Fe 238.204†	344095.0	336862.0	2.664 mg/L	2.664 mg/L	16:50:43
1	Fe 234.349†	111102.8	108860.3	2.648 mg/L	2.648 mg/L	16:50:43
1	Mg 279.077†	113590.6	111523.8	5.062 mg/L	5.062 mg/L	16:50:43
1	Mn 257.610†	530354.0	519870.8	0.5195 mg/L	0.5195 mg/L	16:50:37
1	Mo 202.031†	6923.6	6789.9	0.5180 mg/L	0.5180 mg/L	16:51:03
1	Na 330.237†	12962.7	11568.7	24.87 mg/L	24.87 mg/L	16:50:43
1	Ni 231.604†	30703.3	29783.8	0.5216 mg/L	0.5216 mg/L	16:50:43
1	Pb 220.353†	4599.5	4636.9	0.5112 mg/L	0.5112 mg/L	16:51:03
1	Sb 206.836†	1956.2	1840.7	0.4990 mg/L	0.4990 mg/L	16:51:03
1	Se 196.026†	725.8	721.1	1.007 mg/L	1.007 mg/L	16:51:03
1	Sn 189.927†	1781.1	1673.1	0.5218 mg/L	0.5218 mg/L	16:51:03
1	Ti 337.279†	400833.4	392620.7	0.5211 mg/L	0.5211 mg/L	16:50:37
1	Tl 190.801†	578.3	579.5	0.5455 mg/L	0.5455 mg/L	16:51:03
1	V 292.402†	131112.3	126270.8	0.5182 mg/L	0.5182 mg/L	16:50:43
1	Zn 213.857†	50120.8	48254.6	0.5143 mg/L	0.5143 mg/L	16:50:43
2	Y 360.073	2515482.7	2515482.7			16:51:10
2	Ag 328.068†	88091.4	86329.0	0.2571 mg/L	0.2571 mg/L	16:51:15
2	Al 237.313†	23071.1	22748.4	2.514 mg/L	2.514 mg/L	16:51:15
2	As 188.979†	620.8	602.6	0.5044 mg/L	0.5044 mg/L	16:51:35
2	B 182.528†	609.2	626.0	0.5050 mg/L	0.5050 mg/L	16:51:35
2	Ba 233.527†	94235.2	91774.0	0.5038 mg/L	0.5038 mg/L	16:51:15
2	Be 313.107†	344328.1	329637.9	0.0523 mg/L	0.0523 mg/L	16:51:10
2	Ca 315.886†	810002.8	784422.9	5.268 mg/L	5.268 mg/L	16:51:10
2	Cd 228.802†	22347.2	21335.0	0.2543 mg/L	0.2543 mg/L	16:51:15
2	Co 228.616†	36830.2	36201.2	0.5069 mg/L	0.5069 mg/L	16:51:15
2	Cr 267.716†	82029.7	77989.8	0.5153 mg/L	0.5153 mg/L	16:51:15
2	Cu 324.752†	96476.7	92342.0	0.5119 mg/L	0.5119 mg/L	16:51:15
2	Fe 238.204†	343201.9	332691.1	2.631 mg/L	2.631 mg/L	16:51:15
2	Fe 234.349†	110973.3	107668.1	2.619 mg/L	2.619 mg/L	16:51:15
2	Mg 279.077†	113457.5	110304.2	5.007 mg/L	5.007 mg/L	16:51:15
2	Mn 257.610†	536699.9	520950.2	0.5206 mg/L	0.5206 mg/L	16:51:10
2	Mo 202.031†	6983.6	6781.7	0.5174 mg/L	0.5174 mg/L	16:51:35
2	Na 330.237†	13004.9	11485.3	24.70 mg/L	24.70 mg/L	16:51:15
2	Ni 231.604†	30669.5	29456.2	0.5159 mg/L	0.5159 mg/L	16:51:15
2	Pb 220.353†	4612.0	4604.9	0.5077 mg/L	0.5077 mg/L	16:51:35
2	Sb 206.836†	1953.8	1819.7	0.4933 mg/L	0.4933 mg/L	16:51:35

2	Se 196.026†	735.7	723.7	1.011 mg/L	1.011 mg/L	16:51:35
2	Sn 189.927†	1782.3	1657.2	0.5168 mg/L	0.5168 mg/L	16:51:35
2	Ti 337.279†	405777.2	393580.1	0.5223 mg/L	0.5223 mg/L	16:51:10
2	Tl 190.801†	592.4	587.6	0.5531 mg/L	0.5531 mg/L	16:51:35
2	V 292.402†	130768.0	124677.6	0.5116 mg/L	0.5116 mg/L	16:51:15
2	Zn 213.857†	50065.1	47719.5	0.5086 mg/L	0.5086 mg/L	16:51:15

Mean Data: BF62206-BS1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2503187.6						17387.94	0.69%
Ag 328.068†	86982.4	0.2590 mg/L		0.00275	0.2590 mg/L		0.00275	1.06%
Al 237.313†	22887.0	2.530 mg/L		0.0217	2.530 mg/L		0.0217	0.86%
As 188.979†	601.6	0.5036 mg/L		0.00122	0.5036 mg/L		0.00122	0.24%
B 182.528†	627.5	0.5062 mg/L		0.00175	0.5062 mg/L		0.00175	0.35%
Ba 233.527†	92330.5	0.5069 mg/L		0.00433	0.5069 mg/L		0.00433	0.85%
Be 313.107†	329320.3	0.0523 mg/L		0.00007	0.0523 mg/L		0.00007	0.14%
Ca 315.886†	783871.8	5.265 mg/L		0.0052	5.265 mg/L		0.0052	0.10%
Cd 228.802†	21414.0	0.2553 mg/L		0.00134	0.2553 mg/L		0.00134	0.53%
Co 228.616†	36435.9	0.5102 mg/L		0.00468	0.5102 mg/L		0.00468	0.92%
Cr 267.716†	78475.8	0.5185 mg/L		0.00455	0.5185 mg/L		0.00455	0.88%
Cu 324.752†	93136.0	0.5163 mg/L		0.00622	0.5163 mg/L		0.00622	1.21%
Fe 238.204†	334776.6	2.647 mg/L		0.0234	2.647 mg/L		0.0234	0.88%
Fe 234.349†	108264.2	2.633 mg/L		0.0205	2.633 mg/L		0.0205	0.78%
Mg 279.077†	110914.0	5.035 mg/L		0.0391	5.035 mg/L		0.0391	0.78%
Mn 257.610†	520410.5	0.5201 mg/L		0.00077	0.5201 mg/L		0.00077	0.15%
Mo 202.031†	6785.8	0.5177 mg/L		0.00045	0.5177 mg/L		0.00045	0.09%
Na 330.237†	11527.0	24.78 mg/L		0.123	24.78 mg/L		0.123	0.50%
Ni 231.604†	29620.0	0.5187 mg/L		0.00407	0.5187 mg/L		0.00407	0.78%
Pb 220.353†	4620.9	0.5094 mg/L		0.00250	0.5094 mg/L		0.00250	0.49%
Sb 206.836†	1830.2	0.4962 mg/L		0.00403	0.4962 mg/L		0.00403	0.81%
Se 196.026†	722.4	1.009 mg/L		0.0026	1.009 mg/L		0.0026	0.26%
Sn 189.927†	1665.1	0.5193 mg/L		0.00355	0.5193 mg/L		0.00355	0.68%
Ti 337.279†	393100.4	0.5217 mg/L		0.00090	0.5217 mg/L		0.00090	0.17%
Tl 190.801†	583.6	0.5493 mg/L		0.00536	0.5493 mg/L		0.00536	0.97%
V 292.402†	125474.2	0.5149 mg/L		0.00463	0.5149 mg/L		0.00463	0.90%
Zn 213.857†	47987.0	0.5114 mg/L		0.00403	0.5114 mg/L		0.00403	0.79%

Sequence No.: 13  
 Sample ID: BF62206-BS1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 11  
 Date Collected: 6/22/2006 4:53:13 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: BF62206-BS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2487671.4	2487671.4					16:54:46
1	Ag 328.068†	87698.1	86899.9	0.2588 mg/L		0.2588 mg/L		16:54:52
1	Al 237.313†	22881.7	22813.1	2.522 mg/L		2.522 mg/L		16:54:52
1	As 188.979†	619.2	607.8	0.5088 mg/L		0.5088 mg/L		16:55:12
1	B 182.528†	611.8	635.1	0.5124 mg/L		0.5124 mg/L		16:55:12
1	Ba 233.527†	93888.2	92457.2	0.5076 mg/L		0.5076 mg/L		16:54:52
1	Be 313.107†	340921.3	330031.3	0.0524 mg/L		0.0524 mg/L		16:54:46
1	Ca 315.886†	797735.6	781167.1	5.246 mg/L		5.246 mg/L		16:54:46
1	Cd 228.802†	22207.8	21440.9	0.2556 mg/L		0.2556 mg/L		16:54:52
1	Co 228.616†	36792.4	36564.4	0.5120 mg/L		0.5120 mg/L		16:54:52
1	Cr 267.716†	81708.0	78565.1	0.5191 mg/L		0.5191 mg/L		16:54:52
1	Cu 324.752†	96188.3	93107.0	0.5161 mg/L		0.5161 mg/L		16:54:52
1	Fe 238.204†	341199.9	334453.3	2.645 mg/L		2.645 mg/L		16:54:52
1	Fe 234.349†	110169.8	108084.3	2.629 mg/L		2.629 mg/L		16:54:52
1	Mg 279.077†	113051.7	111138.4	5.045 mg/L		5.045 mg/L		16:54:52
1	Mn 257.610†	530695.5	520880.8	0.5206 mg/L		0.5206 mg/L		16:54:46
1	Mo 202.031†	6954.6	6829.1	0.5210 mg/L		0.5210 mg/L		16:55:12
1	Na 330.237†	12792.5	11417.9	24.56 mg/L		24.56 mg/L		16:54:52
1	Ni 231.604†	30542.5	29664.8	0.5195 mg/L		0.5195 mg/L		16:54:52
1	Pb 220.353†	4629.6	4672.3	0.5151 mg/L		0.5151 mg/L		16:55:12
1	Sb 206.836†	1965.4	1852.3	0.5022 mg/L		0.5022 mg/L		16:55:12

1	Se 196.026†	730.5	726.6	1.015 mg/L	1.015 mg/L	16:55:12
1	Sn 189.927†	1783.4	1677.6	0.5232 mg/L	0.5232 mg/L	16:55:12
1	Ti 337.279†	401415.2	393702.3	0.5225 mg/L	0.5225 mg/L	16:54:46
1	Tl 190.801†	590.6	592.3	0.5572 mg/L	0.5572 mg/L	16:55:12
1	V 292.402†	130232.3	125572.3	0.5153 mg/L	0.5153 mg/L	16:54:52
1	Zn 213.857†	49826.8	48029.4	0.5119 mg/L	0.5119 mg/L	16:54:52
2	Y 360.073	2481226.5	2481226.5			16:55:19
2	Ag 328.068†	87306.7	86738.1	0.2583 mg/L	0.2583 mg/L	16:55:24
2	Al 237.313†	22776.2	22767.5	2.516 mg/L	2.516 mg/L	16:55:24
2	As 188.979†	616.0	606.2	0.5074 mg/L	0.5074 mg/L	16:55:44
2	B 182.528†	617.7	642.5	0.5183 mg/L	0.5183 mg/L	16:55:44
2	Ba 233.527†	93648.4	92460.6	0.5076 mg/L	0.5076 mg/L	16:55:24
2	Be 313.107†	340748.9	330731.9	0.0525 mg/L	0.0525 mg/L	16:55:19
2	Ca 315.886†	796801.3	782283.3	5.254 mg/L	5.254 mg/L	16:55:19
2	Cd 228.802†	22242.6	21531.9	0.2567 mg/L	0.2567 mg/L	16:55:24
2	Co 228.616†	36751.2	36617.7	0.5127 mg/L	0.5127 mg/L	16:55:24
2	Cr 267.716†	81394.1	78464.4	0.5184 mg/L	0.5184 mg/L	16:55:24
2	Cu 324.752†	95731.6	92902.5	0.5150 mg/L	0.5150 mg/L	16:55:24
2	Fe 238.204†	340152.1	334291.8	2.644 mg/L	2.644 mg/L	16:55:24
2	Fe 234.349†	109807.5	108008.5	2.627 mg/L	2.627 mg/L	16:55:24
2	Mg 279.077†	112711.2	111091.4	5.043 mg/L	5.043 mg/L	16:55:24
2	Mn 257.610†	529823.3	521376.2	0.5211 mg/L	0.5211 mg/L	16:55:19
2	Mo 202.031†	6945.4	6837.8	0.5217 mg/L	0.5217 mg/L	16:55:44
2	Na 330.237†	12694.9	11354.3	24.42 mg/L	24.42 mg/L	16:55:24
2	Ni 231.604†	30463.2	29664.5	0.5195 mg/L	0.5195 mg/L	16:55:24
2	Pb 220.353†	4615.2	4669.9	0.5149 mg/L	0.5149 mg/L	16:55:44
2	Sb 206.836†	1958.6	1850.7	0.5018 mg/L	0.5018 mg/L	16:55:44
2	Se 196.026†	737.0	734.9	1.027 mg/L	1.027 mg/L	16:55:44
2	Sn 189.927†	1769.4	1668.3	0.5203 mg/L	0.5203 mg/L	16:55:44
2	Ti 337.279†	401166.8	394482.5	0.5235 mg/L	0.5235 mg/L	16:55:19
2	Tl 190.801†	605.3	608.2	0.5718 mg/L	0.5718 mg/L	16:55:44
2	V 292.402†	129624.1	125305.4	0.5142 mg/L	0.5142 mg/L	16:55:24
2	Zn 213.857†	49788.0	48118.4	0.5128 mg/L	0.5128 mg/L	16:55:24

Mean Data: BF62206-BSD1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2484449.0						4557.25	0.18%
Ag 328.068†	86819.0	0.2585	mg/L	0.00034	0.2585	mg/L	0.00034	0.13%
Al 237.313†	22790.3	2.519	mg/L	0.0036	2.519	mg/L	0.0036	0.14%
As 188.979†	607.0	0.5081	mg/L	0.00097	0.5081	mg/L	0.00097	0.19%
B 182.528†	638.8	0.5153	mg/L	0.00422	0.5153	mg/L	0.00422	0.82%
Ba 233.527†	92458.9	0.5076	mg/L	0.00001	0.5076	mg/L	0.00001	0.00%
Be 313.107†	330381.6	0.0525	mg/L	0.00008	0.0525	mg/L	0.00008	0.15%
Ca 315.886†	781725.2	5.250	mg/L	0.0053	5.250	mg/L	0.0053	0.10%
Cd 228.802†	21486.4	0.2561	mg/L	0.00078	0.2561	mg/L	0.00078	0.30%
Co 228.616†	36591.0	0.5123	mg/L	0.00053	0.5123	mg/L	0.00053	0.10%
Cr 267.716†	78514.7	0.5188	mg/L	0.00047	0.5188	mg/L	0.00047	0.09%
Cu 324.752†	93004.7	0.5156	mg/L	0.00080	0.5156	mg/L	0.00080	0.16%
Fe 238.204†	334372.5	2.644	mg/L	0.0009	2.644	mg/L	0.0009	0.03%
Fe 234.349†	108046.4	2.628	mg/L	0.0013	2.628	mg/L	0.0013	0.05%
Mg 279.077†	111114.9	5.044	mg/L	0.0015	5.044	mg/L	0.0015	0.03%
Mn 257.610†	521128.5	0.5208	mg/L	0.00035	0.5208	mg/L	0.00035	0.07%
Mo 202.031†	6833.5	0.5213	mg/L	0.00047	0.5213	mg/L	0.00047	0.09%
Na 330.237†	11386.1	24.49	mg/L	0.094	24.49	mg/L	0.094	0.38%
Ni 231.604†	29664.7	0.5195	mg/L	0.00000	0.5195	mg/L	0.00000	0.00%
Pb 220.353†	4671.1	0.5150	mg/L	0.00018	0.5150	mg/L	0.00018	0.04%
Sb 206.836†	1851.5	0.5020	mg/L	0.00031	0.5020	mg/L	0.00031	0.06%
Se 196.026†	730.7	1.021	mg/L	0.0082	1.021	mg/L	0.0082	0.81%
Sn 189.927†	1673.0	0.5218	mg/L	0.00206	0.5218	mg/L	0.00206	0.39%
Ti 337.279†	394092.4	0.5230	mg/L	0.00073	0.5230	mg/L	0.00073	0.14%
Tl 190.801†	600.3	0.5645	mg/L	0.01033	0.5645	mg/L	0.01033	1.83%
V 292.402†	125438.9	0.5148	mg/L	0.00077	0.5148	mg/L	0.00077	0.15%
Zn 213.857†	48073.9	0.5123	mg/L	0.00068	0.5123	mg/L	0.00068	0.13%

Duplicate Check: BF62206-BSD1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Y 360.073			0.000	mg/L	Not calculated



Ag 328.068	0.2590	0.2585	0.000	mg/L	0.2
Al 237.313	2.530	2.519	0.004	mg/L	0.4
As 188.979	0.5036	0.5081	0.001	mg/L	0.9
B 182.528	0.5062	0.5153	0.004	mg/L	1.8
Ba 233.527	0.5069	0.5076	0.000	mg/L	0.1
Be 313.107	0.0523	0.0525	0.000	mg/L	0.3
Ca 315.886	5.265	5.250	0.005	mg/L	0.3
Cd 228.802	0.2553	0.2561	0.001	mg/L	0.3
Co 228.616	0.5102	0.5123	0.001	mg/L	0.4
Cr 267.716	0.5185	0.5188	0.000	mg/L	0.0
Cu 324.752	0.5163	0.5156	0.001	mg/L	0.1
Fe 238.204	2.647	2.644	0.001	mg/L	0.1
Fe 234.349	2.633	2.628	0.001	mg/L	0.2
Mg 279.077	5.035	5.044	0.002	mg/L	0.2
Mn 257.610	0.5201	0.5208	0.000	mg/L	0.1
Mo 202.031	0.5177	0.5213	0.000	mg/L	0.7
Na 330.237	24.78	24.49	0.094	mg/L	1.2
Ni 231.604	0.5187	0.5195	0.000	mg/L	0.2
Pb 220.353	0.5094	0.5150	0.000	mg/L	1.1
Sb 206.836	0.4962	0.5020	0.000	mg/L	1.2
Se 196.026	1.009	1.021	0.008	mg/L	1.2
Sn 189.927	0.5193	0.5218	0.002	mg/L	0.5
Ti 337.279	0.5217	0.5230	0.001	mg/L	0.3
Tl 190.801	0.5493	0.5645	0.010	mg/L	2.7
V 292.402	0.5149	0.5148	0.001	mg/L	0.0
Zn 213.857	0.5114	0.5123	0.001	mg/L	0.2

Sequence No.: 14  
 Sample ID: 0606316-04  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 12  
 Date Collected: 6/22/2006 4:57:22 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: 0606316-04

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2509347.3	2509347.3			16:58:55
1	Ag 328.068†	86404.8	84894.6	0.2527 mg/L	0.2527 mg/L	16:59:00
1	Al 237.313†	230.8	542.9	0.0595 mg/L	0.0595 mg/L	16:59:20
1	As 188.979†	2.6	1.6	0.0006 mg/L	0.0006 mg/L	16:59:20
1	B 182.528†	-17.1	16.9	0.0132 mg/L	0.0132 mg/L	16:59:20
1	Ba 233.527†	86.0	238.9	-0.0001 mg/L	-0.0001 mg/L	16:59:20
1	Be 313.107†	5447.4	178.5	-0.0001 mg/L	-0.0001 mg/L	16:59:00
1	Ca 315.886†	26499.8	22735.2	0.1376 mg/L	0.1376 mg/L	16:59:00
1	Cd 228.802†	387.4	-14.2	0.0001 mg/L	0.0001 mg/L	16:59:20
1	Co 228.616†	-405.6	-1.8	-0.0020 mg/L	-0.0020 mg/L	16:59:20
1	Cr 267.716†	4001.8	2137.6	0.0130 mg/L	0.0130 mg/L	16:59:00
1	Cu 324.752†	13840.8	12033.2	0.0665 mg/L	0.0665 mg/L	16:59:00
1	Fe 238.204†	8854.0	7646.7	0.0532 mg/L	0.0532 mg/L	16:59:00
1	Fe 234.349†	2709.9	2416.8	0.0541 mg/L	0.0541 mg/L	16:59:20
1	Mg 279.077†	517.9	501.3	0.0204 mg/L	0.0204 mg/L	16:59:00
1	Mn 257.610†	1694.6	802.2	-0.0018 mg/L	-0.0018 mg/L	16:59:00
1	Mo 202.031†	25.4	16.8	-0.0004 mg/L	-0.0004 mg/L	16:59:20
1	Na 330.237†	1352.2	159.3	0.9883 mg/L	0.9883 mg/L	16:59:00
1	Ni 231.604†	471.5	97.7	-0.0003 mg/L	-0.0003 mg/L	16:59:20
1	Pb 220.353†	-69.5	53.2	0.0042 mg/L	0.0042 mg/L	16:59:20
1	Sb 206.836†	83.8	1.8	0.0006 mg/L	0.0006 mg/L	16:59:20
1	Se 196.026†	-4.8	3.8	0.0035 mg/L	0.0035 mg/L	16:59:20
1	Sn 189.927†	73.4	-4.1	-0.0081 mg/L	-0.0081 mg/L	16:59:20
1	Ti 337.279†	3849.9	2820.7	0.0030 mg/L	0.0030 mg/L	16:59:00
1	Tl 190.801†	5.7	17.2	0.0324 mg/L	0.0324 mg/L	16:59:20
1	V 292.402†	2328.3	-190.7	-0.0010 mg/L	-0.0010 mg/L	16:59:00
1	Zn 213.857†	3089.6	2055.5	0.0214 mg/L	0.0214 mg/L	16:59:20
2	Y 360.073	2508287.8	2508287.8			16:59:26
2	Ag 328.068†	86577.9	85099.0	0.2533 mg/L	0.2533 mg/L	16:59:31
2	Al 237.313†	279.1	590.0	0.0648 mg/L	0.0648 mg/L	16:59:51
2	As 188.979†	3.0	2.0	0.0009 mg/L	0.0009 mg/L	16:59:51
2	B 182.528†	-21.3	12.9	0.0099 mg/L	0.0099 mg/L	16:59:51
2	Ba 233.527†	107.7	260.1	0.0000 mg/L	0.0000 mg/L	16:59:51

V 292.402†	2130.7	0.0084 mg/L	0.00022	0.0084 mg/L	0.00022	2.58%
Zn 213.857†	3906.6	0.0413 mg/L	0.00017	0.0413 mg/L	0.00017	0.42%

Sequence No.: 21

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/22/2006 5:26:43 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2429594.0	2429594.0			17:28:17
1	Ag 328.068†	83726.4	84962.9	0.2530 mg/L	0.2530 mg/L	17:28:22
1	Al 237.313†	22207.5	22672.1	2.507 mg/L	2.507 mg/L	17:28:22
1	As 188.979†	609.9	613.0	0.5130 mg/L	0.5130 mg/L	17:28:42
1	B 182.528†	585.9	623.4	0.5029 mg/L	0.5029 mg/L	17:28:42
1	Ba 233.527†	91449.2	92208.5	0.5062 mg/L	0.5062 mg/L	17:28:22
1	Be 313.107†	321752.5	318747.6	0.0506 mg/L	0.0506 mg/L	17:28:17
1	Ca 315.886†	752862.3	754744.4	5.068 mg/L	5.068 mg/L	17:28:17
1	Cd 228.802†	21432.8	21182.7	0.2525 mg/L	0.2525 mg/L	17:28:22
1	Co 228.616†	35548.1	36176.5	0.5065 mg/L	0.5065 mg/L	17:28:22
1	Cr 267.716†	78145.1	76898.8	0.5081 mg/L	0.5081 mg/L	17:28:22
1	Cu 324.752†	91224.0	90370.4	0.5010 mg/L	0.5010 mg/L	17:28:22
1	Fe 238.204†	319683.9	320813.4	2.537 mg/L	2.537 mg/L	17:28:22
1	Fe 234.349†	103374.1	103832.7	2.525 mg/L	2.525 mg/L	17:28:22
1	Mg 279.077†	110573.0	111300.1	5.052 mg/L	5.052 mg/L	17:28:22
1	Mn 257.610†	507240.1	509741.9	0.5094 mg/L	0.5094 mg/L	17:28:17
1	Mo 202.031†	6639.3	6675.2	0.5092 mg/L	0.5092 mg/L	17:28:42
1	Na 330.237†	12473.1	11396.9	24.51 mg/L	24.51 mg/L	17:28:22
1	Ni 231.604†	29244.4	29075.8	0.5092 mg/L	0.5092 mg/L	17:28:22
1	Pb 220.353†	4502.6	4653.2	0.5130 mg/L	0.5130 mg/L	17:28:42
1	Sb 206.836†	1935.0	1867.9	0.5067 mg/L	0.5067 mg/L	17:28:42
1	Se 196.026†	719.6	732.8	1.024 mg/L	1.024 mg/L	17:28:42
1	Sn 189.927†	1692.8	1628.3	0.5077 mg/L	0.5077 mg/L	17:28:42
1	Ti 337.279†	380288.2	381869.1	0.5068 mg/L	0.5068 mg/L	17:28:17
1	Tl 190.801†	568.9	584.3	0.5499 mg/L	0.5499 mg/L	17:28:42
1	V 292.402†	125812.9	124184.3	0.5096 mg/L	0.5096 mg/L	17:28:22
1	Zn 213.857†	47878.3	47238.9	0.5034 mg/L	0.5034 mg/L	17:28:22
2	Y 360.073	2455075.4	2455075.4			17:28:49
2	Ag 328.068†	84009.8	84370.5	0.2512 mg/L	0.2512 mg/L	17:28:55
2	Al 237.313†	22246.0	22478.5	2.485 mg/L	2.485 mg/L	17:28:55
2	As 188.979†	609.9	606.6	0.5077 mg/L	0.5077 mg/L	17:29:15
2	B 182.528†	591.9	623.2	0.5028 mg/L	0.5028 mg/L	17:29:15
2	Ba 233.527†	91647.9	91450.9	0.5021 mg/L	0.5021 mg/L	17:28:55
2	Be 313.107†	324576.7	318199.4	0.0505 mg/L	0.0505 mg/L	17:28:49
2	Ca 315.886†	759286.1	753277.9	5.059 mg/L	5.059 mg/L	17:28:49
2	Cd 228.802†	21443.8	20969.7	0.2499 mg/L	0.2499 mg/L	17:28:55
2	Co 228.616†	35674.6	35931.1	0.5031 mg/L	0.5031 mg/L	17:28:55
2	Cr 267.716†	78399.2	76335.5	0.5043 mg/L	0.5043 mg/L	17:28:55
2	Cu 324.752†	91708.2	89899.7	0.4983 mg/L	0.4983 mg/L	17:28:55
2	Fe 238.204†	320460.5	318247.1	2.516 mg/L	2.516 mg/L	17:28:55
2	Fe 234.349†	103594.8	102972.6	2.504 mg/L	2.504 mg/L	17:28:55
2	Mg 279.077†	110806.8	110377.8	5.010 mg/L	5.010 mg/L	17:28:55
2	Mn 257.610†	511195.6	508382.8	0.5080 mg/L	0.5080 mg/L	17:28:49
2	Mo 202.031†	6649.5	6616.0	0.5047 mg/L	0.5047 mg/L	17:29:15
2	Na 330.237†	12504.9	11298.4	24.30 mg/L	24.30 mg/L	17:28:55
2	Ni 231.604†	29220.0	28745.9	0.5034 mg/L	0.5034 mg/L	17:28:55
2	Pb 220.353†	4474.5	4578.2	0.5047 mg/L	0.5047 mg/L	17:29:15
2	Sb 206.836†	1925.1	1837.8	0.4985 mg/L	0.4985 mg/L	17:29:15
2	Se 196.026†	717.1	722.8	1.010 mg/L	1.010 mg/L	17:29:15
2	Sn 189.927†	1695.3	1613.1	0.5029 mg/L	0.5029 mg/L	17:29:15
2	Ti 337.279†	384149.8	381742.8	0.5066 mg/L	0.5066 mg/L	17:28:49
2	Tl 190.801†	583.3	592.7	0.5576 mg/L	0.5576 mg/L	17:29:15
2	V 292.402†	126087.5	123143.3	0.5053 mg/L	0.5053 mg/L	17:28:55
2	Zn 213.857†	47960.6	46820.7	0.4990 mg/L	0.4990 mg/L	17:28:55

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2442334.7				18018.09	0.74%
Ag 328.068†	84666.7	0.2521 mg/L	0.00125	0.2521 mg/L	0.00125	0.49%
QC value within limits for Ag 328.068 Recovery = 100.84%						
Al 237.313†	22575.3	2.496 mg/L	0.0151	2.496 mg/L	0.0151	0.61%
QC value within limits for Al 237.313 Recovery = 99.83%						
As 188.979†	609.8	0.5104 mg/L	0.00374	0.5104 mg/L	0.00374	0.73%
QC value within limits for As 188.979 Recovery = 102.07%						
B 182.528†	623.3	0.5029 mg/L	0.00010	0.5029 mg/L	0.00010	0.02%
QC value within limits for B 182.528 Recovery = 100.57%						
Ba 233.527†	91829.7	0.5041 mg/L	0.00295	0.5041 mg/L	0.00295	0.58%
QC value within limits for Ba 233.527 Recovery = 100.83%						
Be 313.107†	318473.5	0.0506 mg/L	0.00006	0.0506 mg/L	0.00006	0.12%
QC value within limits for Be 313.107 Recovery = 101.12%						
Ca 315.886†	754011.1	5.064 mg/L	0.0070	5.064 mg/L	0.0070	0.14%
QC value within limits for Ca 315.886 Recovery = 101.27%						
Cd 228.802†	21076.2	0.2512 mg/L	0.00179	0.2512 mg/L	0.00179	0.71%
QC value within limits for Cd 228.802 Recovery = 100.47%						
Co 228.616†	36053.8	0.5048 mg/L	0.00244	0.5048 mg/L	0.00244	0.48%
QC value within limits for Co 228.616 Recovery = 100.96%						
Cr 267.716†	76617.1	0.5062 mg/L	0.00264	0.5062 mg/L	0.00264	0.52%
QC value within limits for Cr 267.716 Recovery = 101.24%						
Cu 324.752†	90135.0	0.4997 mg/L	0.00185	0.4997 mg/L	0.00185	0.37%
QC value within limits for Cu 324.752 Recovery = 99.93%						
Fe 238.204†	319530.3	2.526 mg/L	0.0144	2.526 mg/L	0.0144	0.57%
QC value within limits for Fe 238.204 Recovery = 101.06%						
Fe 234.349†	103402.7	2.515 mg/L	0.0148	2.515 mg/L	0.0148	0.59%
QC value within limits for Fe 234.349 Recovery = 100.59%						
Mg 279.077†	110838.9	5.031 mg/L	0.0296	5.031 mg/L	0.0296	0.59%
QC value within limits for Mg 279.077 Recovery = 100.63%						
Mn 257.610†	509062.3	0.5087 mg/L	0.00097	0.5087 mg/L	0.00097	0.19%
QC value within limits for Mn 257.610 Recovery = 101.74%						
Mo 202.031†	6645.6	0.5070 mg/L	0.00321	0.5070 mg/L	0.00321	0.63%
QC value within limits for Mo 202.031 Recovery = 101.39%						
Na 330.237†	11347.7	24.41 mg/L	0.146	24.41 mg/L	0.146	0.60%
QC value within limits for Na 330.237 Recovery = 97.63%						
Ni 231.604†	28910.9	0.5063 mg/L	0.00410	0.5063 mg/L	0.00410	0.81%
QC value within limits for Ni 231.604 Recovery = 101.25%						
Pb 220.353†	4615.7	0.5088 mg/L	0.00585	0.5088 mg/L	0.00585	1.15%
QC value within limits for Pb 220.353 Recovery = 101.77%						
Sb 206.836†	1852.8	0.5026 mg/L	0.00582	0.5026 mg/L	0.00582	1.16%
QC value within limits for Sb 206.836 Recovery = 100.51%						
Se 196.026†	727.8	1.017 mg/L	0.0099	1.017 mg/L	0.0099	0.97%
QC value within limits for Se 196.026 Recovery = 101.66%						
Sn 189.927†	1620.7	0.5053 mg/L	0.00339	0.5053 mg/L	0.00339	0.67%
QC value within limits for Sn 189.927 Recovery = 101.05%						
Ti 337.279†	381805.9	0.5067 mg/L	0.00012	0.5067 mg/L	0.00012	0.02%
QC value within limits for Ti 337.279 Recovery = 101.34%						
Tl 190.801†	588.5	0.5537 mg/L	0.00544	0.5537 mg/L	0.00544	0.98%
QC value greater than the upper limit for Tl 190.801 Recovery = 110.74%						
V 292.402†	123663.8	0.5074 mg/L	0.00302	0.5074 mg/L	0.00302	0.60%
QC value within limits for V 292.402 Recovery = 101.49%						
Zn 213.857†	47029.8	0.5012 mg/L	0.00315	0.5012 mg/L	0.00315	0.63%
QC value within limits for Zn 213.857 Recovery = 100.24%						

QC Failed. Continue with analysis.

Sequence No.: 22  
 Sample ID: ICCB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 1  
 Date Collected: 6/22/2006 5:30:55 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2429319.6	2429319.6			17:32:26
1	Ag 328.068†	-538.7	141.0	0.0006 mg/L	0.0006 mg/L	17:32:31
1	Al 237.313†	-283.1	32.9	0.0030 mg/L	0.0030 mg/L	17:32:51

1	As 188.979†	2.6	1.6	0.0007 mg/L	0.0007 mg/L	17:32:51
1	B 182.528†	-25.6	7.9	0.0058 mg/L	0.0058 mg/L	17:32:51
1	Ba 233.527†	-154.6	-0.6	-0.0014 mg/L	-0.0014 mg/L	17:32:51
1	Be 313.107†	5222.3	126.7	-0.0001 mg/L	-0.0001 mg/L	17:32:31
1	Ca 315.886†	3854.2	788.2	-0.0102 mg/L	-0.0102 mg/L	17:32:31
1	Cd 228.802†	382.5	-6.6	0.0002 mg/L	0.0002 mg/L	17:32:51
1	Co 228.616†	-393.1	-2.2	-0.0020 mg/L	-0.0020 mg/L	17:32:51
1	Cr 267.716†	1747.2	-3.6	-0.0012 mg/L	-0.0012 mg/L	17:32:31
1	Cu 324.752†	1422.9	-23.8	-0.0003 mg/L	-0.0003 mg/L	17:32:31
1	Fe 238.204†	1254.3	280.2	-0.0052 mg/L	-0.0052 mg/L	17:32:51
1	Fe 234.349†	322.1	100.0	-0.0025 mg/L	-0.0025 mg/L	17:32:51
1	Mg 279.077†	161.8	159.5	0.0049 mg/L	0.0049 mg/L	17:32:31
1	Mn 257.610†	1052.6	210.3	-0.0024 mg/L	-0.0024 mg/L	17:32:31
1	Mo 202.031†	27.9	20.1	-0.0001 mg/L	-0.0001 mg/L	17:32:51
1	Na 330.237†	1156.6	5.8	0.6682 mg/L	0.6682 mg/L	17:32:31
1	Ni 231.604†	368.0	8.7	-0.0018 mg/L	-0.0018 mg/L	17:32:51
1	Pb 220.353†	-116.9	3.2	-0.0013 mg/L	-0.0013 mg/L	17:32:51
1	Sb 206.836†	86.0	6.7	0.0021 mg/L	0.0021 mg/L	17:32:51
1	Se 196.026†	-4.8	3.6	0.0033 mg/L	0.0033 mg/L	17:32:51
1	Sn 189.927†	65.0	-10.3	-0.0101 mg/L	-0.0101 mg/L	17:32:51
1	Ti 337.279†	1076.4	152.1	-0.0006 mg/L	-0.0006 mg/L	17:32:31
1	Tl 190.801†	-1.1	10.5	0.0262 mg/L	0.0262 mg/L	17:32:51
1	V 292.402†	2477.0	33.8	-0.0002 mg/L	-0.0002 mg/L	17:32:31
1	Zn 213.857†	954.3	5.0	-0.0006 mg/L	-0.0006 mg/L	17:32:51
2	Y 360.073	2434313.6	2434313.6			17:32:57
2	Ag 328.068†	-615.6	64.8	0.0004 mg/L	0.0004 mg/L	17:33:02
2	Al 237.313†	-288.4	28.1	0.0025 mg/L	0.0025 mg/L	17:33:22
2	As 188.979†	-1.6	-2.5	-0.0028 mg/L	-0.0028 mg/L	17:33:22
2	B 182.528†	-22.0	11.6	0.0088 mg/L	0.0088 mg/L	17:33:22
2	Ba 233.527†	-135.7	18.7	-0.0013 mg/L	-0.0013 mg/L	17:33:22
2	Be 313.107†	5220.0	113.7	-0.0001 mg/L	-0.0001 mg/L	17:33:02
2	Ca 315.886†	4053.8	980.8	-0.0089 mg/L	-0.0089 mg/L	17:33:02
2	Cd 228.802†	378.0	-12.0	0.0001 mg/L	0.0001 mg/L	17:33:22
2	Co 228.616†	-393.7	-2.0	-0.0020 mg/L	-0.0020 mg/L	17:33:22
2	Cr 267.716†	1803.4	49.3	-0.0009 mg/L	-0.0009 mg/L	17:33:02
2	Cu 324.752†	1407.3	-42.5	-0.0004 mg/L	-0.0004 mg/L	17:33:02
2	Fe 238.204†	1228.2	251.4	-0.0054 mg/L	-0.0054 mg/L	17:33:22
2	Fe 234.349†	297.3	74.4	-0.0031 mg/L	-0.0031 mg/L	17:33:22
2	Mg 279.077†	171.1	168.4	0.0053 mg/L	0.0053 mg/L	17:33:02
2	Mn 257.610†	1030.6	186.0	-0.0024 mg/L	-0.0024 mg/L	17:33:02
2	Mo 202.031†	26.4	18.6	-0.0003 mg/L	-0.0003 mg/L	17:33:22
2	Na 330.237†	1173.7	20.7	0.6992 mg/L	0.6992 mg/L	17:33:02
2	Ni 231.604†	368.6	8.5	-0.0018 mg/L	-0.0018 mg/L	17:33:22
2	Pb 220.353†	-128.0	-7.7	-0.0025 mg/L	-0.0025 mg/L	17:33:22
2	Sb 206.836†	78.2	-1.4	-0.0001 mg/L	-0.0001 mg/L	17:33:22
2	Se 196.026†	-0.6	7.8	0.0091 mg/L	0.0091 mg/L	17:33:22
2	Sn 189.927†	62.5	-12.8	-0.0109 mg/L	-0.0109 mg/L	17:33:22
2	Ti 337.279†	1007.9	81.0	-0.0007 mg/L	-0.0007 mg/L	17:33:02
2	Tl 190.801†	-11.9	-0.3	0.0164 mg/L	0.0164 mg/L	17:33:22
2	V 292.402†	2344.1	-104.8	-0.0008 mg/L	-0.0008 mg/L	17:33:02
2	Zn 213.857†	937.6	-13.7	-0.0008 mg/L	-0.0008 mg/L	17:33:22

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Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2431816.6						3531.30	0.15%
Ag 328.068†	102.9	0.0005 mg/L		0.00016	0.0005 mg/L		0.00016	30.90%
QC value within limits for Ag 328.068				Recovery =			Not calculated	
Al 237.313†	30.5	0.0028 mg/L		0.00037	0.0028 mg/L		0.00037	13.43%
QC value within limits for Al 237.313				Recovery =			Not calculated	
As 188.979†	-0.4	-0.0011 mg/L		0.00245	-0.0011 mg/L		0.00245	227.85%
QC value within limits for As 188.979				Recovery =			Not calculated	
B 182.528†	9.7	0.0073 mg/L		0.00212	0.0073 mg/L		0.00212	28.99%
QC value within limits for B 182.528				Recovery =			Not calculated	
Ba 233.527†	9.1	-0.0014 mg/L		0.00008	-0.0014 mg/L		0.00008	5.59%
QC value within limits for Ba 233.527				Recovery =			Not calculated	
Be 313.107†	120.2	-0.0001 mg/L		0.00000	-0.0001 mg/L		0.00000	1.53%
QC value within limits for Be 313.107				Recovery =			Not calculated	
Ca 315.886†	884.5	-0.0096 mg/L		0.00092	-0.0096 mg/L		0.00092	9.57%
QC value within limits for Ca 315.886				Recovery =			Not calculated	

Cd 228.802†	-9.3	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	30.50%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-2.1	-0.0020 mg/L	0.00000	-0.0020 mg/L	0.00000	0.09%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	22.8	-0.0010 mg/L	0.00025	-0.0010 mg/L	0.00025	23.96%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-33.1	-0.0004 mg/L	0.00007	-0.0004 mg/L	0.00007	20.07%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204†	265.8	-0.0053 mg/L	0.00016	-0.0053 mg/L	0.00016	3.07%
QC value within limits for Fe 238.204 Recovery = Not calculated						
Fe 234.349†	87.2	-0.0028 mg/L	0.00044	-0.0028 mg/L	0.00044	15.99%
QC value within limits for Fe 234.349 Recovery = Not calculated						
Mg 279.077†	163.9	0.0051 mg/L	0.00029	0.0051 mg/L	0.00029	5.61%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	198.1	-0.0024 mg/L	0.00002	-0.0024 mg/L	0.00002	0.72%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	19.4	-0.0002 mg/L	0.00008	-0.0002 mg/L	0.00008	41.35%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 330.237†	13.2	0.6837 mg/L	0.02197	0.6837 mg/L	0.02197	3.21%
QC value within limits for Na 330.237 Recovery = Not calculated						
Ni 231.604†	8.6	-0.0018 mg/L	0.00000	-0.0018 mg/L	0.00000	0.12%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-2.2	-0.0019 mg/L	0.00085	-0.0019 mg/L	0.00085	44.91%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	2.7	0.0010 mg/L	0.00156	0.0010 mg/L	0.00156	152.28%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	5.7	0.0062 mg/L	0.00416	0.0062 mg/L	0.00416	67.08%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-11.5	-0.0105 mg/L	0.00057	-0.0105 mg/L	0.00057	5.46%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	116.6	-0.0006 mg/L	0.00007	-0.0006 mg/L	0.00007	10.48%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	5.1	0.0213 mg/L	0.00698	0.0213 mg/L	0.00698	32.75%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	-35.5	-0.0005 mg/L	0.00040	-0.0005 mg/L	0.00040	80.23%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-4.4	-0.0007 mg/L	0.00014	-0.0007 mg/L	0.00014	20.28%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 23  
Sample ID: 0606341-02  
Analyst:  
Initial Sample Wt:  
Dilution:

Autosampler Location: 19  
Date Collected: 6/22/2006 5:34:58 PM  
Data Type: Original  
Initial Sample Vol:  
Sample Prep Vol:

Replicate Data: 0606341-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2478017.4	2478017.4			17:36:30
1	Ag 328.068†	-449.6	239.6	0.0009 mg/L	0.0009 mg/L	17:36:36
1	Al 237.313†	-91.3	227.8	0.0150 mg/L	0.0150 mg/L	17:36:56
1	As 188.979†	4.9	3.9	0.0026 mg/L	0.0026 mg/L	17:36:56
1	B 182.528†	-0.2	33.5	0.0265 mg/L	0.0265 mg/L	17:36:56
1	Ba 233.527†	5013.6	5103.2	0.0267 mg/L	0.0267 mg/L	17:36:56
1	Be 313.107†	4981.9	-213.8	-0.0001 mg/L	-0.0001 mg/L	17:36:36
1	Ca 315.886†	8832263.1	8713789.9	58.68 mg/L	58.68 mg/L	17:36:30
1	Cd 228.802†	403.8	6.8	0.0003 mg/L	0.0003 mg/L	17:36:56
1	Co 228.616†	-278.2	119.0	-0.0003 mg/L	-0.0003 mg/L	17:36:56
1	Cr 267.716†	1965.5	177.3	0.0000 mg/L	0.0000 mg/L	17:36:56
1	Cu 324.752†	1734.9	255.9	0.0012 mg/L	0.0012 mg/L	17:36:36
1	Fe 238.204†	141848.7	139013.2	1.095 mg/L	1.095 mg/L	17:36:36
1	Fe 234.349†	46690.8	45856.6	1.115 mg/L	1.115 mg/L	17:36:36
1	Mg 279.077†	46088.4	45482.8	2.063 mg/L	2.063 mg/L	17:36:36
1	Mn 257.610†	80686.2	78782.8	0.0766 mg/L	0.0766 mg/L	17:36:36
1	Mo 202.031†	26.9	18.6	-0.0002 mg/L	-0.0002 mg/L	17:36:56
1	Na 330.237†	2260.6	1072.5	2.903 mg/L	2.903 mg/L	17:36:36
1	Ni 231.604†	440.2	72.6	-0.0007 mg/L	-0.0007 mg/L	17:36:56
1	Pb 220.353†	-72.5	49.3	0.0037 mg/L	0.0037 mg/L	17:36:56

2	Cr 267.716†	1753.4	-29.2	-0.0014 mg/L	-0.0014 mg/L	17:45:35
2	Cu 324.752†	1918.1	439.9	0.0023 mg/L	0.0023 mg/L	17:45:35
2	Fe 238.204†	33821.7	32452.6	0.2499 mg/L	0.2499 mg/L	17:45:35
2	Fe 234.349†	11391.0	11036.5	0.2645 mg/L	0.2645 mg/L	17:45:35
2	Mg 279.077†	80161.1	79241.4	3.599 mg/L	3.599 mg/L	17:45:35
2	Mn 257.610†	243152.0	239523.4	0.2379 mg/L	0.2379 mg/L	17:45:30
2	Mo 202.031†	17.1	8.9	-0.0010 mg/L	-0.0010 mg/L	17:45:55
2	Na 330.237†	19335.9	17956.3	38.25 mg/L	38.25 mg/L	17:45:35
2	Ni 231.604†	454.8	87.8	-0.0004 mg/L	-0.0004 mg/L	17:45:55
2	Pb 220.353†	-75.5	46.3	0.0034 mg/L	0.0034 mg/L	17:45:55
2	Sb 206.836†	82.2	1.4	0.0007 mg/L	0.0007 mg/L	17:45:55
2	Se 196.026†	-4.0	4.4	0.0044 mg/L	0.0044 mg/L	17:45:55
2	Sn 189.927†	137.5	60.3	0.0122 mg/L	0.0122 mg/L	17:45:55
2	Ti 337.279†	3447.2	2476.3	0.0025 mg/L	0.0025 mg/L	17:45:35
2	Tl 190.801†	-12.4	-0.6	0.0195 mg/L	0.0195 mg/L	17:45:55
2	V 292.402†	2521.2	32.5	-0.0002 mg/L	-0.0002 mg/L	17:45:35
2	Zn 213.857†	2600.2	1614.8	0.0167 mg/L	0.0167 mg/L	17:45:55

Mean Data: 0606346-01

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 360.073	2456617.9					24472.98	1.00%
Ag 328.068†	151.4	0.0007	mg/L	0.00006	0.0007	0.00006	8.91%
Al 237.313†	513.4	0.0507	mg/L	0.00155	0.0507	0.00155	3.06%
As 188.979†	1.8	0.0008	mg/L	0.00227	0.0008	0.00227	289.91%
B 182.528†	51.9	0.0414	mg/L	0.00101	0.0414	0.00101	2.44%
Ba 233.527†	4348.2	0.0226	mg/L	0.00005	0.0226	0.00005	0.21%
Be 313.107†	-74.7	-0.0001	mg/L	0.00001	-0.0001	0.00001	11.07%
Ca 315.886†	3322396.3	22.36	mg/L	0.045	22.36	0.045	0.20%
Cd 228.802†	79.6	0.0012	mg/L	0.00019	0.0012	0.00019	16.04%
Co 228.616†	57.9	-0.0012	mg/L	0.00019	-0.0012	0.00019	16.27%
Cr 267.716†	-22.2	-0.0014	mg/L	0.00007	-0.0014	0.00007	4.69%
Cu 324.752†	472.4	0.0024	mg/L	0.00025	0.0024	0.00025	10.45%
Fe 238.204†	32617.6	0.2512	mg/L	0.00185	0.2512	0.00185	0.74%
Fe 234.349†	11079.7	0.2656	mg/L	0.00149	0.2656	0.00149	0.56%
Mg 279.077†	79324.7	3.603	mg/L	0.0054	3.603	0.0054	0.15%
Mn 257.610†	239651.6	0.2381	mg/L	0.00018	0.2381	0.00018	0.08%
Mo 202.031†	15.7	-0.0005	mg/L	0.00073	-0.0005	0.00073	159.71%
Na 330.237†	17993.4	38.33	mg/L	0.110	38.33	0.110	0.29%
Ni 231.604†	93.8	-0.0003	mg/L	0.00015	-0.0003	0.00015	46.18%
Pb 220.353†	44.5	0.0032	mg/L	0.00027	0.0032	0.00027	8.46%
Sb 206.836†	-3.2	-0.0006	mg/L	0.00177	-0.0006	0.00177	311.61%
Se 196.026†	6.4	0.0072	mg/L	0.00391	0.0072	0.00391	54.74%
Sn 189.927†	54.3	0.0103	mg/L	0.00269	0.0103	0.00269	26.22%
Ti 337.279†	2546.9	0.0026	mg/L	0.00013	0.0026	0.00013	5.12%
Tl 190.801†	-3.9	0.0165	mg/L	0.00425	0.0165	0.00425	25.81%
V 292.402†	85.6	0.0000	mg/L	0.00031	0.0000	0.00031	>999.9%
Zn 213.857†	1647.4	0.0170	mg/L	0.00049	0.0170	0.00049	2.90%

Sequence No.: 26  
 Sample ID: BF62206-DUP1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 22  
 Date Collected: 6/22/2006 5:47:32 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: BF62206-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2447541.8	2447541.8			17:49:04
1	Ag 328.068†	-523.4	160.3	0.0007 mg/L	0.0007 mg/L	17:49:09
1	Al 237.313†	193.6	511.4	0.0504 mg/L	0.0504 mg/L	17:49:30
1	As 188.979†	2.1	1.1	0.0002 mg/L	0.0002 mg/L	17:49:30
1	B 182.528†	11.9	45.5	0.0362 mg/L	0.0362 mg/L	17:49:30
1	Ba 233.527†	4054.9	4206.8	0.0218 mg/L	0.0218 mg/L	17:49:30
1	Be 313.107†	5048.3	-86.3	-0.0001 mg/L	-0.0001 mg/L	17:49:09
1	Ca 315.886†	3290568.5	3284927.2	22.11 mg/L	22.11 mg/L	17:49:04
1	Cd 228.802†	1109.9	717.3	0.0088 mg/L	0.0088 mg/L	17:49:30
1	Co 228.616†	-349.4	44.4	-0.0014 mg/L	-0.0014 mg/L	17:49:30

1	Cr 267.716†	1801.1	37.2	-0.0010 mg/L	-0.0010 mg/L	17:49:30
1	Cu 324.752†	1933.1	475.3	0.0025 mg/L	0.0025 mg/L	17:49:09
1	Fe 238.204†	36137.5	35127.0	0.2711 mg/L	0.2711 mg/L	17:49:09
1	Fe 234.349†	12079.5	11845.8	0.2843 mg/L	0.2843 mg/L	17:49:09
1	Mg 279.077†	79779.2	79713.9	3.621 mg/L	3.621 mg/L	17:49:09
1	Mn 257.610†	236616.1	235583.4	0.2340 mg/L	0.2340 mg/L	17:49:09
1	Mo 202.031†	16.4	8.4	-0.0010 mg/L	-0.0010 mg/L	17:49:30
1	Na 330.237†	19288.0	18114.5	38.58 mg/L	38.58 mg/L	17:49:09
1	Ni 231.604†	452.8	90.7	-0.0004 mg/L	-0.0004 mg/L	17:49:30
1	Pb 220.353†	-80.2	40.7	0.0028 mg/L	0.0028 mg/L	17:49:30
1	Sb 206.836†	80.0	0.0	0.0003 mg/L	0.0003 mg/L	17:49:30
1	Se 196.026†	1.2	9.6	0.0117 mg/L	0.0117 mg/L	17:49:30
1	Sn 189.927†	130.0	54.2	0.0103 mg/L	0.0103 mg/L	17:49:30
1	Ti 337.279†	3310.6	2376.5	0.0024 mg/L	0.0024 mg/L	17:49:09
1	Tl 190.801†	-7.4	4.2	0.0238 mg/L	0.0238 mg/L	17:49:30
1	V 292.402†	2540.6	78.7	0.0000 mg/L	0.0000 mg/L	17:49:09
1	Zn 213.857†	2660.2	1702.5	0.0176 mg/L	0.0176 mg/L	17:49:30
2	Y 360.073	2462444.9	2462444.9			17:49:35
2	Ag 328.068†	-586.2	101.1	0.0005 mg/L	0.0005 mg/L	17:49:41
2	Al 237.313†	147.7	464.6	0.0452 mg/L	0.0452 mg/L	17:50:01
2	As 188.979†	0.6	-0.3	-0.0009 mg/L	-0.0009 mg/L	17:50:01
2	B 182.528†	19.1	52.6	0.0420 mg/L	0.0420 mg/L	17:50:01
2	Ba 233.527†	4104.4	4231.5	0.0219 mg/L	0.0219 mg/L	17:50:01
2	Be 313.107†	5203.6	37.5	-0.0001 mg/L	-0.0001 mg/L	17:49:41
2	Ca 315.886†	3314618.4	3288913.5	22.14 mg/L	22.14 mg/L	17:49:35
2	Cd 228.802†	1108.0	708.7	0.0087 mg/L	0.0087 mg/L	17:50:01
2	Co 228.616†	-334.0	61.8	-0.0011 mg/L	-0.0011 mg/L	17:50:01
2	Cr 267.716†	1780.5	5.8	-0.0012 mg/L	-0.0012 mg/L	17:50:01
2	Cu 324.752†	1928.6	459.2	0.0024 mg/L	0.0024 mg/L	17:49:41
2	Fe 238.204†	36307.3	35077.1	0.2707 mg/L	0.2707 mg/L	17:49:41
2	Fe 234.349†	12105.3	11798.4	0.2831 mg/L	0.2831 mg/L	17:49:41
2	Mg 279.077†	80156.8	79606.6	3.616 mg/L	3.616 mg/L	17:49:41
2	Mn 257.610†	237510.4	235040.7	0.2334 mg/L	0.2334 mg/L	17:49:41
2	Mo 202.031†	12.1	4.1	-0.0013 mg/L	-0.0013 mg/L	17:50:01
2	Na 330.237†	19425.6	18134.5	38.62 mg/L	38.62 mg/L	17:49:41
2	Ni 231.604†	483.9	118.8	0.0001 mg/L	0.0001 mg/L	17:50:01
2	Pb 220.353†	-71.9	49.5	0.0038 mg/L	0.0038 mg/L	17:50:01
2	Sb 206.836†	78.4	-2.1	-0.0003 mg/L	-0.0003 mg/L	17:50:01
2	Se 196.026†	-3.9	4.5	0.0045 mg/L	0.0045 mg/L	17:50:01
2	Sn 189.927†	124.4	47.9	0.0083 mg/L	0.0083 mg/L	17:50:01
2	Ti 337.279†	3492.1	2536.8	0.0026 mg/L	0.0026 mg/L	17:49:41
2	Tl 190.801†	-9.1	2.7	0.0224 mg/L	0.0224 mg/L	17:50:01
2	V 292.402†	2564.8	87.4	0.0000 mg/L	0.0000 mg/L	17:49:41
2	Zn 213.857†	2652.4	1678.6	0.0174 mg/L	0.0174 mg/L	17:50:01

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Mean Data: BF62206-DUP1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2454993.4						10538.04	0.43%
Ag 328.068†	130.7	0.0006	mg/L	0.00012	0.0006	mg/L	0.00012	20.69%
Al 237.313†	488.0	0.0478	mg/L	0.00368	0.0478	mg/L	0.00368	7.70%
As 188.979†	0.4	-0.0004	mg/L	0.00084	-0.0004	mg/L	0.00084	239.73%
B 182.528†	49.1	0.0391	mg/L	0.00405	0.0391	mg/L	0.00405	10.35%
Ba 233.527†	4219.2	0.0218	mg/L	0.00010	0.0218	mg/L	0.00010	0.44%
Be 313.107†	-24.4	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	11.94%
Ca 315.886†	3286920.4	22.12	mg/L	0.019	22.12	mg/L	0.019	0.09%
Cd 228.802†	713.0	0.0088	mg/L	0.00007	0.0088	mg/L	0.00007	0.80%
Co 228.616†	53.1	-0.0012	mg/L	0.00017	-0.0012	mg/L	0.00017	13.95%
Cr 267.716†	21.5	-0.0011	mg/L	0.00015	-0.0011	mg/L	0.00015	13.38%
Cu 324.752†	467.3	0.0024	mg/L	0.00006	0.0024	mg/L	0.00006	2.62%
Fe 238.204†	35102.1	0.2709	mg/L	0.00028	0.2709	mg/L	0.00028	0.10%
Fe 234.349†	11822.1	0.2837	mg/L	0.00082	0.2837	mg/L	0.00082	0.29%
Mg 279.077†	79660.2	3.618	mg/L	0.0035	3.618	mg/L	0.0035	0.10%
Mn 257.610†	235312.0	0.2337	mg/L	0.00039	0.2337	mg/L	0.00039	0.16%
Mo 202.031†	6.2	-0.0012	mg/L	0.00023	-0.0012	mg/L	0.00023	19.66%
Na 330.237†	18124.5	38.60	mg/L	0.030	38.60	mg/L	0.030	0.08%
Ni 231.604†	104.8	-0.0001	mg/L	0.00035	-0.0001	mg/L	0.00035	265.70%
Pb 220.353†	45.1	0.0033	mg/L	0.00068	0.0033	mg/L	0.00068	20.52%
Sb 206.836†	-1.0	0.0000	mg/L	0.00040	0.0000	mg/L	0.00040	>999.9%
Se 196.026†	7.1	0.0081	mg/L	0.00507	0.0081	mg/L	0.00507	62.73%

Sn 189.927†	51.1	0.0093 mg/L	0.00140	0.0093 mg/L	0.00140	15.17%
Ti 337.279†	2456.6	0.0025 mg/L	0.00015	0.0025 mg/L	0.00015	6.09%
Tl 190.801†	3.5	0.0231 mg/L	0.00103	0.0231 mg/L	0.00103	4.45%
V 292.402†	83.1	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	158.64%
Zn 213.857†	1690.5	0.0175 mg/L	0.00018	0.0175 mg/L	0.00018	1.05%

Duplicate Check: BF62206-DUP1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.0007	0.0006	0.000	mg/L	9.7
Al 237.313	0.0507	0.0478	0.004	mg/L	6.0
As 188.979	0.0008	-0.0004	0.001	mg/L	525.2
B 182.528	0.0414	0.0391	0.004	mg/L	5.7
Ba 233.527	0.0226	0.0218	0.000	mg/L	3.2
Be 313.107	-0.0001	-0.0001	0.000	mg/L	-6.7
Ca 315.886	22.36	22.12	0.019	mg/L	1.1
Cd 228.802	0.0012	0.0088	0.000	mg/L	152.7
Co 228.616	-0.0012	-0.0012	0.000	mg/L	-5.6
Cr 267.716	-0.0014	-0.0011	0.000	mg/L	-23.4
Cu 324.752	0.0024	0.0024	0.000	mg/L	1.2
Fe 238.204	0.2512	0.2709	0.000	mg/L	7.5
Fe 234.349	0.2656	0.2837	0.001	mg/L	6.6
Mg 279.077	3.603	3.618	0.003	mg/L	0.4
Mn 257.610	0.2381	0.2337	0.000	mg/L	1.8
Mo 202.031	-0.0005	-0.0012	0.000	mg/L	-88.0
Na 330.237	38.33	38.60	0.030	mg/L	0.7
Ni 231.604	-0.0003	-0.0001	0.000	mg/L	-84.5
Pb 220.353	0.0032	0.0033	0.001	mg/L	1.9
Sb 206.836	-0.0006	0.0000	0.000	mg/L	-213.6
Se 196.026	0.0072	0.0081	0.005	mg/L	12.2
Sn 189.927	0.0103	0.0093	0.001	mg/L	10.3
Ti 337.279	0.0026	0.0025	0.000	mg/L	4.7
Tl 190.801	0.0165	0.0231	0.001	mg/L	33.7
V 292.402	0.0000	0.0000	0.000	mg/L	-71.3
Zn 213.857	0.0170	0.0175	0.000	mg/L	2.7

Sequence No.: 27  
 Sample ID: BF62206-MS1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 23  
 Date Collected: 6/22/2006 5:51:38 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: BF62206-MS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2443493.4	2443493.4					17:53:12
1	Ag 328.068†	87823.1	88583.8	0.2638	mg/L	0.2638	mg/L	17:53:17
1	Al 237.313†	23400.4	23738.9	2.619	mg/L	2.619	mg/L	17:53:17
1	As 188.979†	626.3	625.9	0.5239	mg/L	0.5239	mg/L	17:53:37
1	B 182.528†	656.0	690.2	0.5569	mg/L	0.5569	mg/L	17:53:37
1	Ba 233.527†	96549.6	96789.8	0.5315	mg/L	0.5315	mg/L	17:53:17
1	Be 313.107†	341444.2	336614.3	0.0534	mg/L	0.0534	mg/L	17:53:12
1	Ca 315.886†	4042936.5	4043405.5	27.22	mg/L	27.22	mg/L	17:53:12
1	Cd 228.802†	22154.3	21782.1	0.2596	mg/L	0.2596	mg/L	17:53:17
1	Co 228.616†	36186.1	36611.5	0.5126	mg/L	0.5126	mg/L	17:53:17
1	Cr 267.716†	80970.6	79279.3	0.5238	mg/L	0.5238	mg/L	17:53:17
1	Cu 324.752†	96091.8	94720.1	0.5251	mg/L	0.5251	mg/L	17:53:17
1	Fe 238.204†	363631.7	362969.5	2.871	mg/L	2.871	mg/L	17:53:17
1	Fe 234.349†	118130.5	118010.2	2.871	mg/L	2.871	mg/L	17:53:17
1	Mg 279.077†	190013.5	190177.4	8.637	mg/L	8.637	mg/L	17:53:17
1	Mn 257.610†	750226.9	750038.3	0.7507	mg/L	0.7507	mg/L	17:53:12
1	Mo 202.031†	6858.9	6857.0	0.5231	mg/L	0.5231	mg/L	17:53:37
1	Na 330.237†	32760.4	31630.7	66.87	mg/L	66.87	mg/L	17:53:17
1	Ni 231.604†	30139.3	29804.0	0.5220	mg/L	0.5220	mg/L	17:53:17
1	Pb 220.353†	4555.0	4679.9	0.5160	mg/L	0.5160	mg/L	17:53:37
1	Sb 206.836†	1965.3	1887.2	0.5118	mg/L	0.5118	mg/L	17:53:37
1	Se 196.026†	752.2	761.3	1.063	mg/L	1.063	mg/L	17:53:37



1	Sn 189.927†	1788.8	1714.7	0.5350 mg/L	0.5350 mg/L	17:53:37
1	Ti 337.279†	399184.9	398605.0	0.5290 mg/L	0.5290 mg/L	17:53:12
1	Tl 190.801†	586.5	598.6	0.5663 mg/L	0.5663 mg/L	17:53:37
1	V 292.402†	129652.6	127306.9	0.5224 mg/L	0.5224 mg/L	17:53:17
1	Zn 213.857†	51097.4	50186.7	0.5350 mg/L	0.5350 mg/L	17:53:17
2	Y 360.073	2453909.2	2453909.2			17:53:44
2	Ag 328.068†	87660.9	88049.0	0.2622 mg/L	0.2622 mg/L	17:53:50
2	Al 237.313†	23323.6	23563.0	2.600 mg/L	2.600 mg/L	17:53:50
2	As 188.979†	629.7	626.7	0.5245 mg/L	0.5245 mg/L	17:54:10
2	B 182.528†	668.2	699.6	0.5645 mg/L	0.5645 mg/L	17:54:10
2	Ba 233.527†	96587.7	96417.5	0.5294 mg/L	0.5294 mg/L	17:53:50
2	Be 313.107†	343348.5	337061.7	0.0535 mg/L	0.0535 mg/L	17:53:44
2	Ca 315.886†	4059440.6	4042678.3	27.21 mg/L	27.21 mg/L	17:53:44
2	Cd 228.802†	22218.8	21752.3	0.2592 mg/L	0.2592 mg/L	17:53:50
2	Co 228.616†	36224.1	36495.6	0.5110 mg/L	0.5110 mg/L	17:53:50
2	Cr 267.716†	80969.6	78934.3	0.5215 mg/L	0.5215 mg/L	17:53:50
2	Cu 324.752†	96012.1	94232.5	0.5224 mg/L	0.5224 mg/L	17:53:50
2	Fe 238.204†	364049.1	361840.6	2.862 mg/L	2.862 mg/L	17:53:50
2	Fe 234.349†	118080.3	117458.4	2.858 mg/L	2.858 mg/L	17:53:50
2	Mg 279.077†	190368.3	189723.8	8.617 mg/L	8.617 mg/L	17:53:50
2	Mn 257.610†	754201.1	750812.0	0.7515 mg/L	0.7515 mg/L	17:53:44
2	Mo 202.031†	6902.3	6871.1	0.5242 mg/L	0.5242 mg/L	17:54:10
2	Na 330.237†	32574.8	31306.5	66.19 mg/L	66.19 mg/L	17:53:50
2	Ni 231.604†	30072.8	29609.8	0.5185 mg/L	0.5185 mg/L	17:53:50
2	Pb 220.353†	4583.6	4689.1	0.5170 mg/L	0.5170 mg/L	17:54:10
2	Sb 206.836†	1978.5	1892.0	0.5131 mg/L	0.5131 mg/L	17:54:10
2	Se 196.026†	764.7	770.6	1.076 mg/L	1.076 mg/L	17:54:10
2	Sn 189.927†	1800.9	1719.2	0.5364 mg/L	0.5364 mg/L	17:54:10
2	Ti 337.279†	402281.5	399995.3	0.5309 mg/L	0.5309 mg/L	17:53:44
2	Tl 190.801†	582.4	592.1	0.5603 mg/L	0.5603 mg/L	17:54:10
2	V 292.402†	129505.2	126609.2	0.5195 mg/L	0.5195 mg/L	17:53:50
2	Zn 213.857†	51048.3	49920.7	0.5322 mg/L	0.5322 mg/L	17:53:50

## Mean Data: BF62206-MS1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2448701.3						7365.08	0.30%
Ag 328.068†	88316.4	0.2630	mg/L	0.00113	0.2630	mg/L	0.00113	0.43%
Al 237.313†	23650.9	2.609	mg/L	0.0138	2.609	mg/L	0.0138	0.53%
As 188.979†	626.3	0.5242	mg/L	0.00046	0.5242	mg/L	0.00046	0.09%
B 182.528†	694.9	0.5607	mg/L	0.00536	0.5607	mg/L	0.00536	0.96%
Ba 233.527†	96603.7	0.5304	mg/L	0.00145	0.5304	mg/L	0.00145	0.27%
Be 313.107†	336838.0	0.0535	mg/L	0.00005	0.0535	mg/L	0.00005	0.09%
Ca 315.886†	4043041.9	27.22	mg/L	0.003	27.22	mg/L	0.003	0.01%
Cd 228.802†	21767.2	0.2594	mg/L	0.00025	0.2594	mg/L	0.00025	0.10%
Co 228.616†	36553.6	0.5118	mg/L	0.00116	0.5118	mg/L	0.00116	0.23%
Cr 267.716†	79106.8	0.5226	mg/L	0.00162	0.5226	mg/L	0.00162	0.31%
Cu 324.752†	94476.3	0.5237	mg/L	0.00191	0.5237	mg/L	0.00191	0.36%
Fe 238.204†	362405.0	2.866	mg/L	0.0063	2.866	mg/L	0.0063	0.22%
Fe 234.349†	117734.3	2.864	mg/L	0.0095	2.864	mg/L	0.0095	0.33%
Mg 279.077†	189950.6	8.627	mg/L	0.0146	8.627	mg/L	0.0146	0.17%
Mn 257.610†	750425.1	0.7511	mg/L	0.00055	0.7511	mg/L	0.00055	0.07%
Mo 202.031†	6864.1	0.5237	mg/L	0.00076	0.5237	mg/L	0.00076	0.15%
Na 330.237†	31468.6	66.53	mg/L	0.480	66.53	mg/L	0.480	0.72%
Ni 231.604†	29706.9	0.5203	mg/L	0.00242	0.5203	mg/L	0.00242	0.46%
Pb 220.353†	4684.5	0.5165	mg/L	0.00072	0.5165	mg/L	0.00072	0.14%
Sb 206.836†	1889.6	0.5124	mg/L	0.00095	0.5124	mg/L	0.00095	0.19%
Se 196.026†	765.9	1.070	mg/L	0.0092	1.070	mg/L	0.0092	0.86%
Sn 189.927†	1717.0	0.5357	mg/L	0.00100	0.5357	mg/L	0.00100	0.19%
Ti 337.279†	399300.1	0.5299	mg/L	0.00131	0.5299	mg/L	0.00131	0.25%
Tl 190.801†	595.4	0.5633	mg/L	0.00420	0.5633	mg/L	0.00420	0.75%
V 292.402†	126958.0	0.5210	mg/L	0.00203	0.5210	mg/L	0.00203	0.39%
Zn 213.857†	50053.7	0.5336	mg/L	0.00200	0.5336	mg/L	0.00200	0.38%

## Matrix Recovery Check: BF62206-MS1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.2507	0.2630	0.001	mg/L	104.9
Al 237.313	2.551	2.609	0.014	mg/L	102.3

As 188.979	0.5008	0.5242	0.000	mg/L	104.7
B 182.528	0.5414	0.5607	0.005	mg/L	103.9
Ba 233.527	0.5226	0.5304	0.001	mg/L	101.6
Be 313.107	0.0499	0.0535	0.000	mg/L	107.2
Ca 315.886	27.36	27.22	0.003	mg/L	97.1
Cd 228.802	0.2512	0.2594	0.000	mg/L	103.3
Co 228.616	0.4988	0.5118	0.001	mg/L	102.6
Cr 267.716	0.4986	0.5226	0.002	mg/L	104.8
Cu 324.752	0.5024	0.5237	0.002	mg/L	104.3
Fe 238.204	2.751	2.866	0.006	mg/L	104.6
Fe 234.349	2.766	2.864	0.010	mg/L	104.0
Mg 279.077	8.603	8.627	0.015	mg/L	100.5
Mn 257.610	0.7381	0.7511	0.001	mg/L	102.6
Mo 202.031	0.4995	0.5237	0.001	mg/L	104.8
Na 330.237	63.33	66.53	0.480	mg/L	112.8
Ni 231.604	0.4997	0.5203	0.002	mg/L	104.1
Pb 220.353	0.5032	0.5165	0.001	mg/L	102.6
Sb 206.836	0.4994	0.5124	0.001	mg/L	102.6
Se 196.026	1.007	1.070	0.009	mg/L	106.3
Sn 189.927	0.5103	0.5357	0.001	mg/L	105.1
Ti 337.279	0.5026	0.5299	0.001	mg/L	105.5
Tl 190.801	0.5165	0.5633	0.004	mg/L	109.4
V 292.402	0.5000	0.5210	0.002	mg/L	104.2
Zn 213.857	0.5170	0.5336	0.002	mg/L	103.3

Sequence No.: 28

Sample ID: BF62206-SD1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 24

Date Collected: 6/22/2006 5:55:47 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: BF62206-SD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2504841.2	2504841.2			17:57:20
1	Ag 328.068†	-552.4	144.0	0.0006 mg/L	0.0006 mg/L	17:57:25
1	Al 237.313†	-64.9	254.5	0.0266 mg/L	0.0266 mg/L	17:57:45
1	As 188.979†	2.1	1.1	0.0002 mg/L	0.0002 mg/L	17:57:45
1	B 182.528†	-17.0	17.0	0.0132 mg/L	0.0132 mg/L	17:57:45
1	Ba 233.527†	763.0	900.0	0.0036 mg/L	0.0036 mg/L	17:57:45
1	Be 313.107†	5301.2	45.3	-0.0001 mg/L	-0.0001 mg/L	17:57:25
1	Ca 315.886†	689820.1	670426.1	4.500 mg/L	4.500 mg/L	17:57:20
1	Cd 228.802†	402.3	1.1	0.0002 mg/L	0.0002 mg/L	17:57:45
1	Co 228.616†	-376.8	25.6	-0.0016 mg/L	-0.0016 mg/L	17:57:45
1	Cr 267.716†	1797.3	-7.7	-0.0012 mg/L	-0.0012 mg/L	17:57:25
1	Cu 324.752†	1542.4	49.6	0.0001 mg/L	0.0001 mg/L	17:57:25
1	Fe 238.204†	7943.9	6773.7	0.0463 mg/L	0.0463 mg/L	17:57:25
1	Fe 234.349†	2557.8	2273.1	0.0506 mg/L	0.0506 mg/L	17:57:45
1	Mg 279.077†	16442.1	16050.1	0.7272 mg/L	0.7272 mg/L	17:57:25
1	Mn 257.610†	50535.4	48491.8	0.0461 mg/L	0.0461 mg/L	17:57:25
1	Mo 202.031†	20.2	11.8	-0.0008 mg/L	-0.0008 mg/L	17:57:45
1	Na 330.237†	4584.4	3317.5	7.601 mg/L	7.601 mg/L	17:57:25
1	Ni 231.604†	389.2	18.3	-0.0017 mg/L	-0.0017 mg/L	17:57:45
1	Pb 220.353†	-119.4	4.3	-0.0012 mg/L	-0.0012 mg/L	17:57:45
1	Sb 206.836†	75.6	-6.1	-0.0014 mg/L	-0.0014 mg/L	17:57:45
1	Se 196.026†	-0.6	7.8	0.0091 mg/L	0.0091 mg/L	17:57:45
1	Sn 189.927†	73.9	-3.5	-0.0079 mg/L	-0.0079 mg/L	17:57:45
1	Ti 337.279†	1611.2	641.6	0.0001 mg/L	0.0001 mg/L	17:57:25
1	Tl 190.801†	-1.9	9.8	0.0262 mg/L	0.0262 mg/L	17:57:45
1	V 292.402†	2437.8	-79.7	-0.0007 mg/L	-0.0007 mg/L	17:57:25
1	Zn 213.857†	1539.3	547.3	0.0052 mg/L	0.0052 mg/L	17:57:45
2	Y 360.073	2489100.9	2489100.9			17:57:51
2	Ag 328.068†	-630.9	63.4	0.0004 mg/L	0.0004 mg/L	17:57:56
2	Al 237.313†	-91.8	227.7	0.0236 mg/L	0.0236 mg/L	17:58:17
2	As 188.979†	1.6	0.6	-0.0002 mg/L	-0.0002 mg/L	17:58:17
2	B 182.528†	-17.4	16.5	0.0128 mg/L	0.0128 mg/L	17:58:17
2	Ba 233.527†	757.2	899.1	0.0036 mg/L	0.0036 mg/L	17:58:17
2	Be 313.107†	5366.3	142.0	-0.0001 mg/L	-0.0001 mg/L	17:57:56
2	Ca 315.886†	687604.2	672508.0	4.514 mg/L	4.514 mg/L	17:57:51

2	Cd 228.802†	409.4	10.5	0.0004 mg/L	0.0004 mg/L	17:58:17
2	Co 228.616†	-374.7	25.3	-0.0016 mg/L	-0.0016 mg/L	17:58:17
2	Cr 267.716†	1789.0	-4.8	-0.0012 mg/L	-0.0012 mg/L	17:57:56
2	Cu 324.752†	1503.6	21.1	-0.0001 mg/L	-0.0001 mg/L	17:57:56
2	Fe 238.204†	7888.1	6767.9	0.0463 mg/L	0.0463 mg/L	17:57:56
2	Fe 234.349†	2571.4	2302.3	0.0513 mg/L	0.0513 mg/L	17:58:17
2	Mg 279.077†	16303.5	16015.4	0.7256 mg/L	0.7256 mg/L	17:57:56
2	Mn 257.610†	50167.5	48442.3	0.0460 mg/L	0.0460 mg/L	17:57:56
2	Mo 202.031†	26.0	17.5	-0.0003 mg/L	-0.0003 mg/L	17:58:17
2	Na 330.237†	4481.8	3245.0	7.450 mg/L	7.450 mg/L	17:57:56
2	Ni 231.604†	402.9	34.1	-0.0014 mg/L	-0.0014 mg/L	17:58:17
2	Pb 220.353†	-93.2	29.4	0.0016 mg/L	0.0016 mg/L	17:58:17
2	Sb 206.836†	80.5	-0.8	0.0001 mg/L	0.0001 mg/L	17:58:17
2	Se 196.026†	-4.0	4.5	0.0045 mg/L	0.0045 mg/L	17:58:17
2	Sn 189.927†	73.1	-3.8	-0.0081 mg/L	-0.0081 mg/L	17:58:17
2	Ti 337.279†	2285.5	1314.1	0.0010 mg/L	0.0010 mg/L	17:57:56
2	Tl 190.801†	-4.3	7.4	0.0241 mg/L	0.0241 mg/L	17:58:17
2	V 292.402†	2430.1	-72.2	-0.0006 mg/L	-0.0006 mg/L	17:57:56
2	Zn 213.857†	1538.7	556.2	0.0053 mg/L	0.0053 mg/L	17:58:17

Mean Data: BF62206-SD1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2496971.0					11130.09	0.45%
Ag 328.068†	103.7	0.0005	mg/L	0.00017	0.0005 mg/L	0.00017	32.51%
Al 237.313†	241.1	0.0251	mg/L	0.00212	0.0251 mg/L	0.00212	8.45%
As 188.979†	0.9	0.0000	mg/L	0.00026	0.0000 mg/L	0.00026	>999.9%
B 182.528†	16.8	0.0130	mg/L	0.00029	0.0130 mg/L	0.00029	2.24%
Ba 233.527†	899.6	0.0036	mg/L	0.00000	0.0036 mg/L	0.00000	0.10%
Be 313.107†	93.7	-0.0001	mg/L	0.00001	-0.0001 mg/L	0.00001	11.05%
Ca 315.886†	671467.0	4.507	mg/L	0.0099	4.507 mg/L	0.0099	0.22%
Cd 228.802†	5.8	0.0003	mg/L	0.00008	0.0003 mg/L	0.00008	26.74%
Co 228.616†	25.5	-0.0016	mg/L	0.00000	-0.0016 mg/L	0.00000	0.25%
Cr 267.716†	-6.3	-0.0012	mg/L	0.00001	-0.0012 mg/L	0.00001	1.09%
Cu 324.752†	35.4	0.0000	mg/L	0.00011	0.0000 mg/L	0.00011	728.67%
Fe 238.204†	6770.8	0.0463	mg/L	0.00003	0.0463 mg/L	0.00003	0.07%
Fe 234.349†	2287.7	0.0510	mg/L	0.00050	0.0510 mg/L	0.00050	0.99%
Mg 279.077†	16032.8	0.7264	mg/L	0.00112	0.7264 mg/L	0.00112	0.15%
Mn 257.610†	48467.0	0.0461	mg/L	0.00004	0.0461 mg/L	0.00004	0.08%
Mo 202.031†	14.7	-0.0006	mg/L	0.00031	-0.0006 mg/L	0.00031	56.65%
Na 330.237†	3281.2	7.526	mg/L	0.1073	7.526 mg/L	0.1073	1.43%
Ni 231.604†	26.2	-0.0015	mg/L	0.00020	-0.0015 mg/L	0.00020	13.02%
Pb 220.353†	16.8	0.0002	mg/L	0.00195	0.0002 mg/L	0.00195	979.52%
Sb 206.836†	-3.5	-0.0007	mg/L	0.00104	-0.0007 mg/L	0.00104	159.08%
Se 196.026†	6.2	0.0068	mg/L	0.00328	0.0068 mg/L	0.00328	48.22%
Sn 189.927†	-3.7	-0.0080	mg/L	0.00008	-0.0080 mg/L	0.00008	0.96%
Ti 337.279†	977.8	0.0005	mg/L	0.00063	0.0005 mg/L	0.00063	124.73%
Tl 190.801†	8.6	0.0252	mg/L	0.00150	0.0252 mg/L	0.00150	5.96%
V 292.402†	-76.0	-0.0007	mg/L	0.00002	-0.0007 mg/L	0.00002	3.19%
Zn 213.857†	551.7	0.0053	mg/L	0.00007	0.0053 mg/L	0.00007	1.27%

Dilution Check: BF62206-SD1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.0001	0.0005	0.000	mg/L	293.0
Al 237.313	0.0101	0.0251	0.002	mg/L	147.1
As 188.979	0.0002	0.0000	0.000	mg/L	87.9
B 182.528	0.0083	0.0130	0.000	mg/L	57.2
Ba 233.527	0.0045	0.0036	0.000	mg/L	21.2
Be 313.107	0.0000	-0.0001	0.000	mg/L	-294.7
Ca 315.886	4.472	4.507	0.010	mg/L	0.8
Cd 228.802	0.0002	0.0003	0.000	mg/L	28.0
Co 228.616	-0.0002	-0.0016	0.000	mg/L	-592.7
Cr 267.716	-0.0003	-0.0012	0.000	mg/L	-345.2
Cu 324.752	0.0005	0.0000	0.000	mg/L	96.9
Fe 238.204	0.0502	0.0463	0.000	mg/L	7.9
Fe 234.349	0.0531	0.0510	0.001	mg/L	4.1
Mg 279.077	0.7206	0.7264	0.001	mg/L	0.8

Mn 257.610	0.0476	0.0461	0.000	mg/L	3.2
Mo 202.031	-0.0001	-0.0006	0.000	mg/L	-501.1
Na 330.237	7.666	7.526	0.107	mg/L	1.8
Ni 231.604	-0.0001	-0.0015	0.000	mg/L	-2234.8
Pb 220.353	0.0006	0.0002	0.002	mg/L	69.3
Sb 206.836	-0.0001	-0.0007	0.001	mg/L	-471.6
Se 196.026	0.0014	0.0068	0.003	mg/L	375.2
Sn 189.927	0.0021	-0.0080	0.000	mg/L	489.6
Ti 337.279	0.0005	0.0005	0.001	mg/L	2.3
Tl 190.801	0.0033	0.0252	0.001	mg/L	664.9
V 292.402	0.0000	-0.0007	0.000	mg/L	-46646.0
Zn 213.857	0.0034	0.0053	0.000	mg/L	54.8

Sequence No.: 29  
 Sample ID: BF62206-PDS1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 25  
 Date Collected: 6/22/2006 5:59:54 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: BF62206-PDS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2443229.6	2443229.6			18:01:29
1	Ag 328.068†	84010.5	84776.9	0.2524 mg/L	0.2524 mg/L	18:01:34
1	Al 237.313†	22456.3	22796.4	2.515 mg/L	2.515 mg/L	18:01:34
1	As 188.979†	601.6	601.2	0.5033 mg/L	0.5033 mg/L	18:01:54
1	B 182.528†	635.9	670.2	0.5407 mg/L	0.5407 mg/L	18:01:54
1	Ba 233.527†	92952.9	93199.9	0.5117 mg/L	0.5117 mg/L	18:01:34
1	Be 313.107†	327779.3	322972.8	0.0513 mg/L	0.0513 mg/L	18:01:29
1	Ca 315.886†	4030319.0	4031212.5	27.14 mg/L	27.14 mg/L	18:01:29
1	Cd 228.802†	21317.9	20947.3	0.2497 mg/L	0.2497 mg/L	18:01:34
1	Co 228.616†	34717.6	35145.4	0.4920 mg/L	0.4920 mg/L	18:01:34
1	Cr 267.716†	77832.2	76146.6	0.5030 mg/L	0.5030 mg/L	18:01:34
1	Cu 324.752†	92110.8	90745.6	0.5030 mg/L	0.5030 mg/L	18:01:34
1	Fe 238.204†	348864.4	348226.8	2.754 mg/L	2.754 mg/L	18:01:34
1	Fe 234.349†	113401.6	113289.5	2.756 mg/L	2.756 mg/L	18:01:34
1	Mg 279.077†	185982.6	186163.1	8.455 mg/L	8.455 mg/L	18:01:34
1	Mn 257.610†	732993.2	732868.6	0.7334 mg/L	0.7334 mg/L	18:01:29
1	Mo 202.031†	6602.6	6601.2	0.5036 mg/L	0.5036 mg/L	18:01:54
1	Na 330.237†	32184.2	31057.4	65.67 mg/L	65.67 mg/L	18:01:34
1	Ni 231.604†	28921.4	28588.2	0.5006 mg/L	0.5006 mg/L	18:01:34
1	Pb 220.353†	4367.6	4492.8	0.4953 mg/L	0.4953 mg/L	18:01:54
1	Sb 206.836†	1884.6	1806.5	0.4899 mg/L	0.4899 mg/L	18:01:54
1	Se 196.026†	718.2	727.4	1.016 mg/L	1.016 mg/L	18:01:54
1	Sn 189.927†	1733.1	1659.1	0.5174 mg/L	0.5174 mg/L	18:01:54
1	Ti 337.279†	388440.2	387892.8	0.5148 mg/L	0.5148 mg/L	18:01:29
1	Tl 190.801†	562.1	574.3	0.5441 mg/L	0.5441 mg/L	18:01:54
1	V 292.402†	124448.2	122111.4	0.5011 mg/L	0.5011 mg/L	18:01:34
1	Zn 213.857†	48723.0	47815.5	0.5097 mg/L	0.5097 mg/L	18:01:34
2	Y 360.073	2476525.3	2476525.3			18:02:01
2	Ag 328.068†	84130.5	83764.8	0.2494 mg/L	0.2494 mg/L	18:02:07
2	Al 237.313†	22463.8	22501.5	2.482 mg/L	2.482 mg/L	18:02:07
2	As 188.979†	601.8	593.3	0.4967 mg/L	0.4967 mg/L	18:02:27
2	B 182.528†	639.4	665.1	0.5366 mg/L	0.5366 mg/L	18:02:27
2	Ba 233.527†	93178.8	92172.0	0.5060 mg/L	0.5060 mg/L	18:02:07
2	Be 313.107†	331807.4	322539.5	0.0512 mg/L	0.0512 mg/L	18:02:01
2	Ca 315.886†	4079664.2	4025703.1	27.10 mg/L	27.10 mg/L	18:02:01
2	Cd 228.802†	21403.6	20745.0	0.2473 mg/L	0.2473 mg/L	18:02:07
2	Co 228.616†	34860.3	34819.2	0.4874 mg/L	0.4874 mg/L	18:02:07
2	Cr 267.716†	77905.2	75171.2	0.4966 mg/L	0.4966 mg/L	18:02:07
2	Cu 324.752†	92752.4	90139.6	0.4997 mg/L	0.4997 mg/L	18:02:07
2	Fe 238.204†	350043.4	344696.2	2.726 mg/L	2.726 mg/L	18:02:07
2	Fe 234.349†	113586.3	111945.7	2.723 mg/L	2.723 mg/L	18:02:07
2	Mg 279.077†	186445.3	184117.1	8.362 mg/L	8.362 mg/L	18:02:07
2	Mn 257.610†	741660.8	731563.7	0.7321 mg/L	0.7321 mg/L	18:02:01
2	Mo 202.031†	6635.0	6544.3	0.4992 mg/L	0.4992 mg/L	18:02:27
2	Na 330.237†	32069.7	30511.3	64.53 mg/L	64.53 mg/L	18:02:07
2	Ni 231.604†	29033.6	28309.8	0.4957 mg/L	0.4957 mg/L	18:02:07
2	Pb 220.353†	4390.4	4456.5	0.4913 mg/L	0.4913 mg/L	18:02:27

2	Sb 206.836†	1903.2	1799.6	0.4881 mg/L	0.4881 mg/L	18:02:27
2	Se 196.026†	718.0	717.5	1.002 mg/L	1.002 mg/L	18:02:27
2	Sn 189.927†	1737.8	1640.4	0.5115 mg/L	0.5115 mg/L	18:02:27
2	Ti 337.279†	394482.3	388632.0	0.5158 mg/L	0.5158 mg/L	18:02:01
2	Tl 190.801†	571.2	575.7	0.5455 mg/L	0.5455 mg/L	18:02:27
2	V 292.402†	124737.9	120722.6	0.4954 mg/L	0.4954 mg/L	18:02:07
2	Zn 213.857†	48949.2	47383.2	0.5051 mg/L	0.5051 mg/L	18:02:07

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Mean Data: BF62206-PDS1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2459877.5						23543.59	0.96%
Ag 328.068†	84270.9	0.2509	mg/L	0.00213	0.2509	mg/L	0.00213	0.85%
Al 237.313†	22649.0	2.499	mg/L	0.0230	2.499	mg/L	0.0230	0.92%
As 188.979†	597.3	0.5000	mg/L	0.00466	0.5000	mg/L	0.00466	0.93%
B 182.528†	667.6	0.5386	mg/L	0.00294	0.5386	mg/L	0.00294	0.55%
Ba 233.527†	92685.9	0.5089	mg/L	0.00400	0.5089	mg/L	0.00400	0.79%
Be 313.107†	322756.2	0.0512	mg/L	0.00005	0.0512	mg/L	0.00005	0.10%
Ca 315.886†	4028457.8	27.12	mg/L	0.026	27.12	mg/L	0.026	0.10%
Cd 228.802†	20846.1	0.2485	mg/L	0.00170	0.2485	mg/L	0.00170	0.68%
Co 228.616†	34982.3	0.4897	mg/L	0.00325	0.4897	mg/L	0.00325	0.66%
Cr 267.716†	75658.9	0.4998	mg/L	0.00457	0.4998	mg/L	0.00457	0.91%
Cu 324.752†	90442.6	0.5014	mg/L	0.00237	0.5014	mg/L	0.00237	0.47%
Fe 238.204†	346461.5	2.740	mg/L	0.0198	2.740	mg/L	0.0198	0.72%
Fe 234.349†	112617.6	2.740	mg/L	0.0232	2.740	mg/L	0.0232	0.85%
Mg 279.077†	185140.1	8.408	mg/L	0.0657	8.408	mg/L	0.0657	0.78%
Mn 257.610†	732216.2	0.7328	mg/L	0.00093	0.7328	mg/L	0.00093	0.13%
Mo 202.031†	6572.8	0.5014	mg/L	0.00308	0.5014	mg/L	0.00308	0.61%
Na 330.237†	30784.4	65.10	mg/L	0.808	65.10	mg/L	0.808	1.24%
Ni 231.604†	28449.0	0.4981	mg/L	0.00346	0.4981	mg/L	0.00346	0.69%
Pb 220.353†	4474.7	0.4933	mg/L	0.00284	0.4933	mg/L	0.00284	0.58%
Sb 206.836†	1803.0	0.4890	mg/L	0.00129	0.4890	mg/L	0.00129	0.26%
Se 196.026†	722.4	1.009	mg/L	0.0098	1.009	mg/L	0.0098	0.97%
Sn 189.927†	1649.8	0.5144	mg/L	0.00416	0.5144	mg/L	0.00416	0.81%
Ti 337.279†	388262.4	0.5153	mg/L	0.00069	0.5153	mg/L	0.00069	0.13%
Tl 190.801†	575.0	0.5448	mg/L	0.00096	0.5448	mg/L	0.00096	0.18%
V 292.402†	121417.0	0.4982	mg/L	0.00404	0.4982	mg/L	0.00404	0.81%
Zn 213.857†	47599.3	0.5074	mg/L	0.00326	0.5074	mg/L	0.00326	0.64%

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Matrix Recovery Check: BF62206-PDS1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.2507	0.2509	0.002	mg/L	100.1
Al 237.313	2.551	2.499	0.023	mg/L	97.9
As 188.979	0.5008	0.5000	0.005	mg/L	99.8
B 182.528	0.5414	0.5386	0.003	mg/L	99.4
Ba 233.527	0.5226	0.5089	0.004	mg/L	97.3
Be 313.107	0.0499	0.0512	0.000	mg/L	102.7
Ca 315.886	27.36	27.12	0.026	mg/L	95.1
Cd 228.802	0.2512	0.2485	0.002	mg/L	98.9
Co 228.616	0.4988	0.4897	0.003	mg/L	98.2
Cr 267.716	0.4986	0.4998	0.005	mg/L	100.2
Cu 324.752	0.5024	0.5014	0.002	mg/L	99.8
Fe 238.204	2.751	2.740	0.020	mg/L	99.6
Fe 234.349	2.766	2.740	0.023	mg/L	99.0
Mg 279.077	8.603	8.408	0.066	mg/L	96.1
Mn 257.610	0.7381	0.7328	0.001	mg/L	98.9
Mo 202.031	0.4995	0.5014	0.003	mg/L	100.4
Na 330.237	63.33	65.10	0.808	mg/L	107.1
Ni 231.604	0.4997	0.4981	0.003	mg/L	99.7
Pb 220.353	0.5032	0.4933	0.003	mg/L	98.0
Sb 206.836	0.4994	0.4890	0.001	mg/L	97.9
Se 196.026	1.007	1.009	0.010	mg/L	100.2
Sn 189.927	0.5103	0.5144	0.004	mg/L	100.8
Ti 337.279	0.5026	0.5153	0.001	mg/L	102.5
Tl 190.801	0.5165	0.5448	0.001	mg/L	105.7
V 292.402	0.5000	0.4982	0.004	mg/L	99.6
Zn 213.857	0.5170	0.5074	0.003	mg/L	98.1

Sequence No.: 30  
 Sample ID: 0606346-02  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 26  
 Date Collected: 6/22/2006 6:04:05 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: 0606346-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2500987.1	2500987.1			18:05:39
1	Ag 328.068†	-637.5	59.9	0.0004 mg/L	0.0004 mg/L	18:05:44
1	Al 237.313†	-94.3	225.7	0.0168 mg/L	0.0168 mg/L	18:06:04
1	As 188.979†	3.3	2.2	0.0012 mg/L	0.0012 mg/L	18:06:04
1	B 182.528†	23.1	56.2	0.0449 mg/L	0.0449 mg/L	18:06:04
1	Ba 233.527†	7607.4	7594.1	0.0404 mg/L	0.0404 mg/L	18:05:44
1	Be 313.107†	5095.6	-147.7	-0.0001 mg/L	-0.0001 mg/L	18:05:44
1	Ca 315.886†	3469255.2	3389396.2	22.81 mg/L	22.81 mg/L	18:05:39
1	Cd 228.802†	372.4	-27.6	-0.0001 mg/L	-0.0001 mg/L	18:06:04
1	Co 228.616†	-338.5	62.5	-0.0011 mg/L	-0.0011 mg/L	18:06:04
1	Cr 267.716†	1741.2	-59.9	-0.0018 mg/L	-0.0018 mg/L	18:05:44
1	Cu 324.752†	1744.7	249.8	0.0012 mg/L	0.0012 mg/L	18:05:44
1	Fe 238.204†	40892.7	39005.3	0.3018 mg/L	0.3018 mg/L	18:05:44
1	Fe 234.349†	13679.8	13152.8	0.3162 mg/L	0.3162 mg/L	18:05:44
1	Mg 279.077†	82114.4	80294.0	3.649 mg/L	3.649 mg/L	18:05:44
1	Mn 257.610†	633655.9	618785.1	0.6188 mg/L	0.6188 mg/L	18:05:39
1	Mo 202.031†	30.0	21.3	0.0000 mg/L	0.0000 mg/L	18:06:04
1	Na 330.237†	19056.5	17476.3	37.25 mg/L	37.25 mg/L	18:05:44
1	Ni 231.604†	480.3	107.9	-0.0001 mg/L	-0.0001 mg/L	18:06:04
1	Pb 220.353†	-71.1	51.3	0.0040 mg/L	0.0040 mg/L	18:06:04
1	Sb 206.836†	87.0	5.1	0.0017 mg/L	0.0017 mg/L	18:06:04
1	Se 196.026†	1.1	9.6	0.0115 mg/L	0.0115 mg/L	18:06:04
1	Sn 189.927†	134.2	55.6	0.0107 mg/L	0.0107 mg/L	18:06:04
1	Ti 337.279†	1816.4	844.6	0.0003 mg/L	0.0003 mg/L	18:05:44
1	Tl 190.801†	-0.4	11.3	0.0357 mg/L	0.0357 mg/L	18:06:04
1	V 292.402†	2481.6	-33.2	-0.0005 mg/L	-0.0005 mg/L	18:05:44
1	Zn 213.857†	2148.3	1145.1	0.0116 mg/L	0.0116 mg/L	18:06:04
2	Y 360.073	2501417.1	2501417.1			18:06:10
2	Ag 328.068†	-504.2	190.3	0.0008 mg/L	0.0008 mg/L	18:06:15
2	Al 237.313†	-80.5	239.2	0.0183 mg/L	0.0183 mg/L	18:06:36
2	As 188.979†	3.6	2.5	0.0014 mg/L	0.0014 mg/L	18:06:36
2	B 182.528†	23.9	57.0	0.0455 mg/L	0.0455 mg/L	18:06:36
2	Ba 233.527†	7647.5	7632.1	0.0406 mg/L	0.0406 mg/L	18:06:15
2	Be 313.107†	5080.3	-163.6	-0.0001 mg/L	-0.0001 mg/L	18:06:15
2	Ca 315.886†	3474540.4	3393980.3	22.84 mg/L	22.84 mg/L	18:06:10
2	Cd 228.802†	391.6	-8.8	0.0001 mg/L	0.0001 mg/L	18:06:36
2	Co 228.616†	-342.7	58.5	-0.0012 mg/L	-0.0012 mg/L	18:06:36
2	Cr 267.716†	1726.3	-74.7	-0.0018 mg/L	-0.0018 mg/L	18:06:15
2	Cu 324.752†	1724.9	230.1	0.0011 mg/L	0.0011 mg/L	18:06:15
2	Fe 238.204†	40938.3	39043.0	0.3021 mg/L	0.3021 mg/L	18:06:15
2	Fe 234.349†	13684.7	13155.3	0.3162 mg/L	0.3162 mg/L	18:06:15
2	Mg 279.077†	81910.2	80080.5	3.639 mg/L	3.639 mg/L	18:06:15
2	Mn 257.610†	634062.5	619076.1	0.6191 mg/L	0.6191 mg/L	18:06:10
2	Mo 202.031†	15.4	7.1	-0.0011 mg/L	-0.0011 mg/L	18:06:36
2	Na 330.237†	18933.3	17352.6	36.99 mg/L	36.99 mg/L	18:06:15
2	Ni 231.604†	494.6	121.8	0.0002 mg/L	0.0002 mg/L	18:06:36
2	Pb 220.353†	-74.2	48.4	0.0037 mg/L	0.0037 mg/L	18:06:36
2	Sb 206.836†	77.0	-4.6	-0.0010 mg/L	-0.0010 mg/L	18:06:36
2	Se 196.026†	-2.6	5.9	0.0064 mg/L	0.0064 mg/L	18:06:36
2	Sn 189.927†	136.6	57.9	0.0114 mg/L	0.0114 mg/L	18:06:36
2	Ti 337.279†	1663.6	695.0	0.0001 mg/L	0.0001 mg/L	18:06:15
2	Tl 190.801†	0.2	11.9	0.0362 mg/L	0.0362 mg/L	18:06:36
2	V 292.402†	2463.1	-51.7	-0.0006 mg/L	-0.0006 mg/L	18:06:15
2	Zn 213.857†	2148.0	1144.4	0.0116 mg/L	0.0116 mg/L	18:06:36

## Mean Data: 0606346-02

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2501202.1				304.07	0.01%

Ag 328.068†	125.1	0.0006 mg/L	0.00027	0.0006 mg/L	0.00027	46.90%
Al 237.313†	232.5	0.0175 mg/L	0.00107	0.0175 mg/L	0.00107	6.10%
As 188.979†	2.4	0.0013 mg/L	0.00018	0.0013 mg/L	0.00018	14.03%
B 182.528†	56.6	0.0452 mg/L	0.00044	0.0452 mg/L	0.00044	0.98%
Ba 233.527†	7613.1	0.0405 mg/L	0.00015	0.0405 mg/L	0.00015	0.36%
Be 313.107†	-155.6	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	1.30%
Ca 315.886†	3391688.2	22.83 mg/L ✓	0.022	22.83 mg/L	0.022	0.10%
Cd 228.802†	-18.2	0.0000 mg/L	0.00016	0.0000 mg/L	0.00016	>999.9%
Co 228.616†	60.5	-0.0011 mg/L	0.00004	-0.0011 mg/L	0.00004	3.49%
Cr 267.716†	-67.3	-0.0018 mg/L	0.00007	-0.0018 mg/L	0.00007	3.85%
Cu 324.752†	240.0	0.0011 mg/L	0.00008	0.0011 mg/L	0.00008	6.71%
Fe 238.204†	39024.2	0.3020 mg/L	0.00021	0.3020 mg/L	0.00021	0.07%
Fe 234.349†	13154.0	0.3162 mg/L	0.00004	0.3162 mg/L	0.00004	0.01%
Mg 279.077†	80187.2	3.644 mg/L ✓	0.0069	3.644 mg/L	0.0069	0.19%
Mn 257.610†	618930.6	0.6189 mg/L	0.00021	0.6189 mg/L	0.00021	0.03%
Mo 202.031†	14.2	-0.0006 mg/L	0.00077	-0.0006 mg/L	0.00077	135.94%
Na 330.237†	17414.4	37.12 mg/L	0.183	37.12 mg/L	0.183	0.49%
Ni 231.604†	114.9	0.0000 mg/L	0.00017	0.0000 mg/L	0.00017	374.36%
Pb 220.353†	49.8	0.0038 mg/L	0.00023	0.0038 mg/L	0.00023	6.12%
Sb 206.836†	0.3	0.0004 mg/L	0.00189	0.0004 mg/L	0.00189	500.19%
Se 196.026†	7.7	0.0090 mg/L	0.00361	0.0090 mg/L	0.00361	40.17%
Sn 189.927†	56.8	0.0110 mg/L	0.00052	0.0110 mg/L	0.00052	4.69%
Ti 337.279†	769.8	0.0002 mg/L	0.00014	0.0002 mg/L	0.00014	61.08%
Tl 190.801†	11.6	0.0360 mg/L	0.00037	0.0360 mg/L	0.00037	1.04%
V 292.402†	-42.4	-0.0005 mg/L	0.00005	-0.0005 mg/L	0.00005	10.14%
Zn 213.857†	1144.8	0.0116 mg/L	0.00001	0.0116 mg/L	0.00001	0.05%

Sequence No.: 31  
 Sample ID: 0606346-03  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 27  
 Date Collected: 6/22/2006 6:08:14 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 0606346-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2490060.9	2490060.9			18:09:48
1	Ag 328.068†	133.1	814.0	0.0026 mg/L	0.0026 mg/L	18:09:53
1	Al 237.313†	1758.2	2044.7	0.2153 mg/L	0.2153 mg/L	18:09:53
1	As 188.979†	5.9	4.8	0.0034 mg/L	0.0034 mg/L	18:10:13
1	B 182.528†	42.9	75.8	0.0607 mg/L	0.0607 mg/L	18:10:13
1	Ba 233.527†	5637.7	5692.2	0.0300 mg/L	0.0300 mg/L	18:09:53
1	Be 313.107†	5203.1	-20.3	-0.0001 mg/L	-0.0001 mg/L	18:09:53
1	Ca 315.886†	3556679.5	3490146.9	23.49 mg/L	23.49 mg/L	18:09:48
1	Cd 228.802†	409.6	10.5	0.0003 mg/L	0.0003 mg/L	18:10:13
1	Co 228.616†	-133.9	262.0	0.0017 mg/L	0.0017 mg/L	18:10:13
1	Cr 267.716†	3424.7	1601.1	0.0093 mg/L	0.0093 mg/L	18:09:53
1	Cu 324.752†	6848.3	5269.9	0.0290 mg/L	0.0290 mg/L	18:09:53
1	Fe 238.204†	124438.8	121236.7	0.9537 mg/L	0.9537 mg/L	18:09:53
1	Fe 234.349†	40533.3	39586.0	0.9614 mg/L	0.9614 mg/L	18:09:53
1	Mg 279.077†	94998.2	93300.3	4.238 mg/L	4.238 mg/L	18:09:53
1	Mn 257.610†	475629.6	466296.4	0.4657 mg/L	0.4657 mg/L	18:09:48
1	Mo 202.031†	24.1	15.7	-0.0004 mg/L	-0.0004 mg/L	18:10:13
1	Na 330.237†	19001.4	17504.0	37.30 mg/L	37.30 mg/L	18:09:53
1	Ni 231.604†	1144.6	762.5	0.0114 mg/L	0.0114 mg/L	18:10:13
1	Pb 220.353†	22.8	143.3	0.0141 mg/L	0.0141 mg/L	18:10:13
1	Sb 206.836†	80.5	-0.8	-0.0001 mg/L	-0.0001 mg/L	18:10:13
1	Se 196.026†	-5.1	3.5	0.0030 mg/L	0.0030 mg/L	18:10:13
1	Sn 189.927†	135.2	57.1	0.0112 mg/L	0.0112 mg/L	18:10:13
1	Ti 337.279†	9806.4	8700.0	0.0108 mg/L	0.0108 mg/L	18:09:53
1	Tl 190.801†	-4.8	6.9	0.0295 mg/L	0.0295 mg/L	18:10:13
1	V 292.402†	3308.7	789.8	0.0029 mg/L	0.0029 mg/L	18:09:53
1	Zn 213.857†	7473.5	6384.5	0.0678 mg/L	0.0678 mg/L	18:09:53
2	Y 360.073	2483898.1	2483898.1			18:10:20
2	Ag 328.068†	184.1	864.6	0.0028 mg/L	0.0028 mg/L	18:10:25
2	Al 237.313†	1796.3	2086.5	0.2199 mg/L	0.2199 mg/L	18:10:25
2	As 188.979†	6.2	5.2	0.0037 mg/L	0.0037 mg/L	18:10:45
2	B 182.528†	29.8	63.0	0.0504 mg/L	0.0504 mg/L	18:10:45
2	Ba 233.527†	5711.5	5778.7	0.0304 mg/L	0.0304 mg/L	18:10:25

2	Be 313.107†	5123.3	-86.2	-0.0001 mg/L	-0.0001 mg/L	18:10:25
2	Ca 315.886†	3554496.5	3496664.8	23.54 mg/L	23.54 mg/L	18:10:20
2	Cd 228.802†	383.6	-14.0	0.0000 mg/L	0.0000 mg/L	18:10:45
2	Co 228.616†	-155.6	240.4	0.0014 mg/L	0.0014 mg/L	18:10:45
2	Cr 267.716†	3535.3	1718.2	0.0101 mg/L	0.0101 mg/L	18:10:25
2	Cu 324.752†	6868.0	5306.0	0.0292 mg/L	0.0292 mg/L	18:10:25
2	Fe 238.204†	124492.3	121592.6	0.9565 mg/L	0.9565 mg/L	18:10:25
2	Fe 234.349†	40570.8	39721.7	0.9647 mg/L	0.9647 mg/L	18:10:25
2	Mg 279.077†	94864.5	93400.1	4.242 mg/L	4.242 mg/L	18:10:25
2	Mn 257.610†	474998.9	466834.4	0.4662 mg/L	0.4662 mg/L	18:10:20
2	Mo 202.031†	14.3	6.2	-0.0011 mg/L	-0.0011 mg/L	18:10:45
2	Na 330.237†	18954.8	17504.4	37.30 mg/L	37.30 mg/L	18:10:25
2	Ni 231.604†	1156.3	776.7	0.0117 mg/L	0.0117 mg/L	18:10:45
2	Pb 220.353†	18.7	139.3	0.0137 mg/L	0.0137 mg/L	18:10:45
2	Sb 206.836†	80.0	-1.2	-0.0002 mg/L	-0.0002 mg/L	18:10:45
2	Se 196.026†	-3.1	5.4	0.0057 mg/L	0.0057 mg/L	18:10:45
2	Sn 189.927†	141.3	63.5	0.0132 mg/L	0.0132 mg/L	18:10:45
2	Ti 337.279†	9887.3	8803.5	0.0109 mg/L	0.0109 mg/L	18:10:25
2	Tl 190.801†	-15.6	-3.7	0.0198 mg/L	0.0198 mg/L	18:10:45
2	V 292.402†	3284.2	773.7	0.0029 mg/L	0.0029 mg/L	18:10:25
2	Zn 213.857†	7403.2	6333.5	0.0673 mg/L	0.0673 mg/L	18:10:25

Mean Data: 0606346-03

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2486979.5						4357.81	0.18%
Ag 328.068†	839.3	0.0027	mg/L	0.00011	0.0027	mg/L	0.00011	3.93%
Al 237.313†	2065.6	0.2176	mg/L	0.00328	0.2176	mg/L	0.00328	1.51%
As 188.979†	5.0	0.0035	mg/L	0.00021	0.0035	mg/L	0.00021	5.81%
B 182.528†	69.4	0.0555	mg/L	0.00730	0.0555	mg/L	0.00730	13.15%
Ba 233.527†	5735.4	0.0302	mg/L	0.00034	0.0302	mg/L	0.00034	1.12%
Be 313.107†	-53.3	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	6.21%
Ca 315.886†	3493405.8	23.51	mg/L	0.031	23.51	mg/L	0.031	0.13%
Cd 228.802†	-1.7	0.0002	mg/L	0.00021	0.0002	mg/L	0.00021	120.15%
Co 228.616†	251.2	0.0015	mg/L	0.00022	0.0015	mg/L	0.00022	14.22%
Cr 267.716†	1659.7	0.0097	mg/L	0.00055	0.0097	mg/L	0.00055	5.65%
Cu 324.752†	5287.9	0.0291	mg/L	0.00014	0.0291	mg/L	0.00014	0.49%
Fe 238.204†	121414.7	0.9551	mg/L	0.00200	0.9551	mg/L	0.00200	0.21%
Fe 234.349†	39653.9	0.9630	mg/L	0.00234	0.9630	mg/L	0.00234	0.24%
Mg 279.077†	93350.2	4.240	mg/L	0.0032	4.240	mg/L	0.0032	0.08%
Mn 257.610†	466565.4	0.4660	mg/L	0.00038	0.4660	mg/L	0.00038	0.08%
Mo 202.031†	10.9	-0.0008	mg/L	0.00051	-0.0008	mg/L	0.00051	66.69%
Na 330.237†	17504.2	37.30	mg/L	0.001	37.30	mg/L	0.001	0.00%
Ni 231.604†	769.6	0.0116	mg/L	0.00018	0.0116	mg/L	0.00018	1.54%
Pb 220.353†	141.3	0.0139	mg/L	0.00031	0.0139	mg/L	0.00031	2.26%
Sb 206.836†	-1.0	-0.0001	mg/L	0.00007	-0.0001	mg/L	0.00007	65.13%
Se 196.026†	4.4	0.0044	mg/L	0.00193	0.0044	mg/L	0.00193	43.94%
Sn 189.927†	60.3	0.0122	mg/L	0.00142	0.0122	mg/L	0.00142	11.63%
Ti 337.279†	8751.7	0.0108	mg/L	0.00010	0.0108	mg/L	0.00010	0.90%
Tl 190.801†	1.6	0.0247	mg/L	0.00687	0.0247	mg/L	0.00687	27.87%
V 292.402†	781.8	0.0029	mg/L	0.00004	0.0029	mg/L	0.00004	1.46%
Zn 213.857†	6359.0	0.0675	mg/L	0.00039	0.0675	mg/L	0.00039	0.58%

Sequence No.: 32  
 Sample ID: 0606346-04  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 28  
 Date Collected: 6/22/2006 6:12:23 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 0606346-04

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2474284.5	2474284.5					18:13:58
1	Ag 328.068†	324.7	1004.2	0.0032	mg/L	0.0032	mg/L	18:14:03
1	Al 237.313†	1521.2	1821.5	0.1885	mg/L	0.1885	mg/L	18:14:23
1	As 188.979†	7.1	6.1	0.0045	mg/L	0.0045	mg/L	18:14:23
1	B 182.528†	23.6	57.0	0.0455	mg/L	0.0455	mg/L	18:14:23
1	Ba 233.527†	6365.3	6446.7	0.0341	mg/L	0.0341	mg/L	18:14:03



1	Be	313.107†	5002.8	-185.7	-0.0001	mg/L	-0.0001	mg/L	18:14:03
1	Ca	315.886†	3642068.9	3596821.3	24.21	mg/L	24.21	mg/L	18:13:58
1	Cd	228.802†	398.8	2.5	0.0002	mg/L	0.0002	mg/L	18:14:23
1	Co	228.616†	-319.2	78.0	-0.0009	mg/L	-0.0009	mg/L	18:14:23
1	Cr	267.716†	4089.0	2279.1	0.0138	mg/L	0.0138	mg/L	18:14:03
1	Cu	324.752†	7585.2	6041.1	0.0333	mg/L	0.0333	mg/L	18:14:03
1	Fe	238.204†	152362.6	149616.6	1.179	mg/L	1.179	mg/L	18:13:58
1	Fe	234.349†	49423.3	48626.9	1.182	mg/L	1.182	mg/L	18:14:03
1	Mg	279.077†	95817.9	94705.4	4.302	mg/L	4.302	mg/L	18:14:03
1	Mn	257.610†	535558.7	528510.5	0.5282	mg/L	0.5282	mg/L	18:13:58
1	Mo	202.031†	24.2	16.0	-0.0004	mg/L	-0.0004	mg/L	18:14:23
1	Na	330.237†	19954.6	18565.1	39.53	mg/L	39.53	mg/L	18:14:03
1	Ni	231.604†	608.3	239.5	0.0022	mg/L	0.0022	mg/L	18:14:23
1	Pb	220.353†	38.6	159.1	0.0158	mg/L	0.0158	mg/L	18:14:23
1	Sb	206.836†	91.2	10.2	0.0029	mg/L	0.0029	mg/L	18:14:23
1	Se	196.026†	-0.8	7.6	0.0088	mg/L	0.0088	mg/L	18:14:23
1	Sn	189.927†	145.5	68.1	0.0147	mg/L	0.0147	mg/L	18:14:23
1	Ti	337.279†	8218.3	7191.6	0.0088	mg/L	0.0088	mg/L	18:14:03
1	Tl	190.801†	-22.0	-10.1	0.0149	mg/L	0.0149	mg/L	18:14:23
1	V	292.402†	3592.9	1091.4	0.0042	mg/L	0.0042	mg/L	18:14:03
1	Zn	213.857†	6352.4	5323.1	0.0565	mg/L	0.0565	mg/L	18:14:03
2	Y	360.073	2478374.1	2478374.1					18:14:29
2	Ag	328.068†	290.6	970.1	0.0031	mg/L	0.0031	mg/L	18:14:35
2	Al	237.313†	1491.0	1789.1	0.1851	mg/L	0.1851	mg/L	18:14:55
2	As	188.979†	4.1	3.1	0.0019	mg/L	0.0019	mg/L	18:14:55
2	B	182.528†	30.3	63.5	0.0508	mg/L	0.0508	mg/L	18:14:55
2	Ba	233.527†	6206.8	6279.9	0.0332	mg/L	0.0332	mg/L	18:14:35
2	Be	313.107†	5152.2	-46.4	-0.0001	mg/L	-0.0001	mg/L	18:14:35
2	Ca	315.886†	3653767.9	3602425.6	24.25	mg/L	24.25	mg/L	18:14:29
2	Cd	228.802†	382.9	-13.9	0.0000	mg/L	0.0000	mg/L	18:14:55
2	Co	228.616†	-289.4	108.0	-0.0005	mg/L	-0.0005	mg/L	18:14:55
2	Cr	267.716†	3972.9	2157.9	0.0130	mg/L	0.0130	mg/L	18:14:35
2	Cu	324.752†	7433.3	5878.8	0.0324	mg/L	0.0324	mg/L	18:14:35
2	Fe	238.204†	152899.4	149897.7	1.181	mg/L	1.181	mg/L	18:14:29
2	Fe	234.349†	48814.7	47945.8	1.166	mg/L	1.166	mg/L	18:14:35
2	Mg	279.077†	94651.6	93398.3	4.242	mg/L	4.242	mg/L	18:14:35
2	Mn	257.610†	537123.7	529181.2	0.5288	mg/L	0.5288	mg/L	18:14:29
2	Mo	202.031†	11.2	3.1	-0.0014	mg/L	-0.0014	mg/L	18:14:55
2	Na	330.237†	19474.1	18058.3	38.46	mg/L	38.46	mg/L	18:14:35
2	Ni	231.604†	586.1	216.6	0.0018	mg/L	0.0018	mg/L	18:14:55
2	Pb	220.353†	17.0	137.7	0.0135	mg/L	0.0135	mg/L	18:14:55
2	Sb	206.836†	74.4	-6.4	-0.0016	mg/L	-0.0016	mg/L	18:14:55
2	Se	196.026†	5.1	13.4	0.0170	mg/L	0.0170	mg/L	18:14:55
2	Sn	189.927†	135.3	57.9	0.0114	mg/L	0.0114	mg/L	18:14:55
2	Ti	337.279†	8249.4	7208.9	0.0088	mg/L	0.0088	mg/L	18:14:35
2	Tl	190.801†	-9.8	2.0	0.0260	mg/L	0.0260	mg/L	18:14:55
2	V	292.402†	3585.6	1078.4	0.0041	mg/L	0.0041	mg/L	18:14:35
2	Zn	213.857†	6266.3	5227.8	0.0555	mg/L	0.0555	mg/L	18:14:35

## Mean Data: 0606346-04

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2476329.3							
Ag 328.068†	987.2	0.0031	mg/L	0.00007	0.0031	mg/L	2891.78	0.12%
Al 237.313†	1805.3	0.1868	mg/L	0.00243	0.1868	mg/L	0.00243	2.28%
As 188.979†	4.6	0.0032	mg/L	0.00179	0.0032	mg/L	0.00179	1.30%
B 182.528†	60.3	0.0481	mg/L	0.00372	0.0481	mg/L	0.00372	56.16%
Ba 233.527†	6363.3	0.0337	mg/L	0.00065	0.0337	mg/L	0.00065	7.72%
Be 313.107†	-116.1	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	1.93%
Ca 315.886†	3599623.5	24.23	mg/L	0.027	24.23	mg/L	0.027	12.23%
Cd 228.802†	-5.7	0.0001	mg/L	0.00013	0.0001	mg/L	0.00013	0.11%
Co 228.616†	93.0	-0.0007	mg/L	0.00030	-0.0007	mg/L	0.00030	105.24%
Cr 267.716†	2218.5	0.0134	mg/L	0.00057	0.0134	mg/L	0.00057	42.70%
Cu 324.752†	5960.0	0.0329	mg/L	0.00064	0.0329	mg/L	0.00064	4.24%
Fe 238.204†	149757.2	1.180	mg/L	0.0016	1.180	mg/L	0.0016	1.94%
Fe 234.349†	48286.3	1.174	mg/L	0.0118	1.174	mg/L	0.0118	0.13%
Mg 279.077†	94051.9	4.272	mg/L	0.0420	4.272	mg/L	0.0420	1.00%
Mn 257.610†	528845.9	0.5285	mg/L	0.00048	0.5285	mg/L	0.00048	0.98%
Mo 202.031†	9.5	-0.0009	mg/L	0.00070	-0.0009	mg/L	0.00070	0.09%
Na 330.237†	18311.7	39.00	mg/L	0.750	39.00	mg/L	0.750	81.09%
								1.92%

Ni 231.604†	228.0	0.0020 mg/L	0.00029	0.0020 mg/L	0.00029	14.03%
Pb 220.353†	148.4	0.0147 mg/L	0.00167	0.0147 mg/L	0.00167	11.39%
Sb 206.836†	1.9	0.0006 mg/L	0.00324	0.0006 mg/L	0.00324	504.29%
Se 196.026†	10.5	0.0129 mg/L	0.00576	0.0129 mg/L	0.00576	44.59%
Sn 189.927†	63.0	0.0130 mg/L	0.00229	0.0130 mg/L	0.00229	17.54%
Ti 337.279†	7200.3	0.0088 mg/L	0.00002	0.0088 mg/L	0.00002	0.19%
Tl 190.801†	-4.0	0.0204 mg/L	0.00785	0.0204 mg/L	0.00785	38.48%
V 292.402†	1084.9	0.0042 mg/L	0.00004	0.0042 mg/L	0.00004	1.00%
Zn 213.857†	5275.5	0.0560 mg/L	0.00072	0.0560 mg/L	0.00072	1.29%

Sequence No.: 33

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/22/2006 6:16:33 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2470851.2	2470851.2			18:18:07
1	Ag 328.068†	84477.5	84299.1	0.2510 mg/L	0.2510 mg/L	18:18:13
1	Al 237.313†	22328.5	22418.6	2.479 mg/L	2.479 mg/L	18:18:13
1	As 188.979†	611.2	604.1	0.5056 mg/L	0.5056 mg/L	18:18:33
1	B 182.528†	587.2	614.9	0.4960 mg/L	0.4960 mg/L	18:18:33
1	Ba 233.527†	92148.7	91363.7	0.5016 mg/L	0.5016 mg/L	18:18:13
1	Be 313.107†	325444.1	316993.6	0.0503 mg/L	0.0503 mg/L	18:18:07
1	Ca 315.886†	760578.5	749727.8	5.035 mg/L	5.035 mg/L	18:18:07
1	Cd 228.802†	21476.4	20865.5	0.2487 mg/L	0.2487 mg/L	18:18:13
1	Co 228.616†	35824.9	35853.0	0.5020 mg/L	0.5020 mg/L	18:18:13
1	Cr 267.716†	78602.3	76037.9	0.5024 mg/L	0.5024 mg/L	18:18:13
1	Cu 324.752†	91628.6	89237.6	0.4947 mg/L	0.4947 mg/L	18:18:13
1	Fe 238.204†	321507.7	317245.5	2.508 mg/L	2.508 mg/L	18:18:13
1	Fe 234.349†	104024.3	102738.8	2.499 mg/L	2.499 mg/L	18:18:13
1	Mg 279.077†	111126.7	109989.6	4.993 mg/L	4.993 mg/L	18:18:13
1	Mn 257.610†	512821.8	506741.0	0.5063 mg/L	0.5063 mg/L	18:18:07
1	Mo 202.031†	6693.6	6617.4	0.5048 mg/L	0.5048 mg/L	18:18:33
1	Na 330.237†	12629.4	11342.0	24.40 mg/L	24.40 mg/L	18:18:13
1	Ni 231.604†	29394.5	28732.8	0.5031 mg/L	0.5031 mg/L	18:18:13
1	Pb 220.353†	4495.8	4570.8	0.5039 mg/L	0.5039 mg/L	18:18:33
1	Sb 206.836†	1929.5	1829.9	0.4963 mg/L	0.4963 mg/L	18:18:33
1	Se 196.026†	718.4	719.5	1.005 mg/L	1.005 mg/L	18:18:33
1	Sn 189.927†	1684.6	1591.8	0.4961 mg/L	0.4961 mg/L	18:18:33
1	Ti 337.279†	385573.9	380709.1	0.5052 mg/L	0.5052 mg/L	18:18:07
1	Tl 190.801†	563.9	569.8	0.5366 mg/L	0.5366 mg/L	18:18:33
1	V 292.402†	127009.5	123254.0	0.5057 mg/L	0.5057 mg/L	18:18:13
1	Zn 213.857†	48120.9	46674.3	0.4974 mg/L	0.4974 mg/L	18:18:13
2	Y 360.073	2476519.8	2476519.8			18:18:40
2	Ag 328.068†	84248.0	83881.0	0.2498 mg/L	0.2498 mg/L	18:18:45
2	Al 237.313†	22330.2	22369.7	2.473 mg/L	2.473 mg/L	18:18:45
2	As 188.979†	611.0	602.4	0.5042 mg/L	0.5042 mg/L	18:19:05
2	B 182.528†	585.4	611.7	0.4935 mg/L	0.4935 mg/L	18:19:05
2	Ba 233.527†	92187.6	91193.4	0.5006 mg/L	0.5006 mg/L	18:18:45
2	Be 313.107†	325815.2	316622.7	0.0503 mg/L	0.0503 mg/L	18:18:40
2	Ca 315.886†	761282.5	748699.9	5.028 mg/L	5.028 mg/L	18:18:40
2	Cd 228.802†	21491.9	20832.3	0.2483 mg/L	0.2483 mg/L	18:18:45
2	Co 228.616†	35849.9	35796.5	0.5012 mg/L	0.5012 mg/L	18:18:45
2	Cr 267.716†	78656.3	75913.2	0.5015 mg/L	0.5015 mg/L	18:18:45
2	Cu 324.752†	90942.1	88352.0	0.4898 mg/L	0.4898 mg/L	18:18:45
2	Fe 238.204†	321419.8	316430.2	2.502 mg/L	2.502 mg/L	18:18:45
2	Fe 234.349†	104049.5	102528.1	2.493 mg/L	2.493 mg/L	18:18:45
2	Mg 279.077†	111437.9	110045.2	4.995 mg/L	4.995 mg/L	18:18:45
2	Mn 257.610†	513231.3	505983.6	0.5056 mg/L	0.5056 mg/L	18:18:40
2	Mo 202.031†	6670.7	6579.6	0.5019 mg/L	0.5019 mg/L	18:19:05
2	Na 330.237†	12693.9	11377.1	24.47 mg/L	24.47 mg/L	18:18:45
2	Ni 231.604†	29402.8	28674.4	0.5021 mg/L	0.5021 mg/L	18:18:45
2	Pb 220.353†	4472.0	4537.2	0.5002 mg/L	0.5002 mg/L	18:19:05
2	Sb 206.836†	1894.2	1790.7	0.4856 mg/L	0.4856 mg/L	18:19:05
2	Se 196.026†	724.2	723.6	1.011 mg/L	1.011 mg/L	18:19:05
2	Sn 189.927†	1672.8	1576.3	0.4913 mg/L	0.4913 mg/L	18:19:05

2	Ti 337.279†	385846.7	380104.9	0.5044 mg/L	0.5044 mg/L	18:18:40
2	Tl 190.801†	580.2	584.7	0.5502 mg/L	0.5502 mg/L	18:19:05
2	V 292.402†	126887.9	122846.1	0.5041 mg/L	0.5041 mg/L	18:18:45
2	Zn 213.857†	48138.2	46582.4	0.4964 mg/L	0.4964 mg/L	18:18:45

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2473685.5					
Ag 328.068†	84090.1	0.2504 mg/L	0.00088	0.2504 mg/L	0.00088	0.35%
QC value within limits for Ag 328.068 Recovery = 100.16%						
Al 237.313†	22394.1	2.476 mg/L	0.0038	2.476 mg/L	0.0038	0.16%
QC value within limits for Al 237.313 Recovery = 99.03%						
As 188.979†	603.2	0.5049 mg/L	0.00099	0.5049 mg/L	0.00099	0.20%
QC value within limits for As 188.979 Recovery = 100.98%						
B 182.528†	613.3	0.4947 mg/L	0.00180	0.4947 mg/L	0.00180	0.36%
QC value within limits for B 182.528 Recovery = 98.95%						
Ba 233.527†	91278.6	0.5011 mg/L	0.00066	0.5011 mg/L	0.00066	0.13%
QC value within limits for Ba 233.527 Recovery = 100.22%						
Be 313.107†	316808.1	0.0503 mg/L	0.00004	0.0503 mg/L	0.00004	0.08%
QC value within limits for Be 313.107 Recovery = 100.59%						
Ca 315.886†	749213.8	5.031 mg/L	0.0049	5.031 mg/L	0.0049	0.10%
QC value within limits for Ca 315.886 Recovery = 100.62%						
Cd 228.802†	20848.9	0.2485 mg/L	0.00028	0.2485 mg/L	0.00028	0.11%
QC value within limits for Cd 228.802 Recovery = 99.39%						
Co 228.616†	35824.7	0.5016 mg/L	0.00056	0.5016 mg/L	0.00056	0.11%
QC value within limits for Co 228.616 Recovery = 100.32%						
Cr 267.716†	75975.5	0.5020 mg/L	0.00058	0.5020 mg/L	0.00058	0.12%
QC value within limits for Cr 267.716 Recovery = 100.39%						
Cu 324.752†	88794.8	0.4922 mg/L	0.00347	0.4922 mg/L	0.00347	0.71%
QC value within limits for Cu 324.752 Recovery = 98.44%						
Fe 238.204†	316837.8	2.505 mg/L	0.0046	2.505 mg/L	0.0046	0.18%
QC value within limits for Fe 238.204 Recovery = 100.21%						
Fe 234.349†	102633.4	2.496 mg/L	0.0036	2.496 mg/L	0.0036	0.15%
QC value within limits for Fe 234.349 Recovery = 99.84%						
Mg 279.077†	110017.4	4.994 mg/L	0.0018	4.994 mg/L	0.0018	0.04%
QC value within limits for Mg 279.077 Recovery = 99.88%						
Mn 257.610†	506362.3	0.5060 mg/L	0.00054	0.5060 mg/L	0.00054	0.11%
QC value within limits for Mn 257.610 Recovery = 101.19%						
Mo 202.031†	6598.5	0.5033 mg/L	0.00204	0.5033 mg/L	0.00204	0.41%
QC value within limits for Mo 202.031 Recovery = 100.67%						
Na 330.237†	11359.6	24.43 mg/L	0.052	24.43 mg/L	0.052	0.21%
QC value within limits for Na 330.237 Recovery = 97.73%						
Ni 231.604†	28703.6	0.5026 mg/L	0.00073	0.5026 mg/L	0.00073	0.14%
QC value within limits for Ni 231.604 Recovery = 100.52%						
Pb 220.353†	4554.0	0.5020 mg/L	0.00263	0.5020 mg/L	0.00263	0.52%
QC value within limits for Pb 220.353 Recovery = 100.41%						
Sb 206.836†	1810.3	0.4909 mg/L	0.00760	0.4909 mg/L	0.00760	1.55%
QC value within limits for Sb 206.836 Recovery = 98.19%						
Se 196.026†	721.5	1.008 mg/L	0.0040	1.008 mg/L	0.0040	0.40%
QC value within limits for Se 196.026 Recovery = 100.79%						
Sn 189.927†	1584.0	0.4937 mg/L	0.00345	0.4937 mg/L	0.00345	0.70%
QC value within limits for Sn 189.927 Recovery = 98.74%						
Ti 337.279†	380407.0	0.5048 mg/L	0.00057	0.5048 mg/L	0.00057	0.11%
QC value within limits for Ti 337.279 Recovery = 100.96%						
Tl 190.801†	577.2	0.5434 mg/L	0.00959	0.5434 mg/L	0.00959	1.76%
QC value within limits for Tl 190.801 Recovery = 108.69%						
V 292.402†	123050.1	0.5049 mg/L	0.00118	0.5049 mg/L	0.00118	0.23%
QC value within limits for V 292.402 Recovery = 100.98%						
Zn 213.857†	46628.3	0.4969 mg/L	0.00069	0.4969 mg/L	0.00069	0.14%
QC value within limits for Zn 213.857 Recovery = 99.38%						

All analyte(s) passed QC.

Sequence No.: 34  
 Sample ID: ICCB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 1  
 Date Collected: 6/22/2006 6:20:43 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

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 Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2483178.2	2483178.2			18:22:14
1	Ag 328.068†	-550.5	141.1	0.0006 mg/L	0.0006 mg/L	18:22:19
1	Al 237.313†	-298.6	23.8	0.0020 mg/L	0.0020 mg/L	18:22:40
1	As 188.979†	-2.3	-3.2	-0.0034 mg/L	-0.0034 mg/L	18:22:40
1	B 182.528†	-27.8	6.3	0.0046 mg/L	0.0046 mg/L	18:22:40
1	Ba 233.527†	-152.4	4.9	-0.0014 mg/L	-0.0014 mg/L	18:22:40
1	Be 313.107†	5265.7	55.5	-0.0001 mg/L	-0.0001 mg/L	18:22:19
1	Ca 315.886†	3405.4	262.1	-0.0138 mg/L	-0.0138 mg/L	18:22:19
1	Cd 228.802†	385.7	-11.9	0.0001 mg/L	0.0001 mg/L	18:22:40
1	Co 228.616†	-391.5	7.9	-0.0019 mg/L	-0.0019 mg/L	18:22:40
1	Cr 267.716†	1757.0	-32.1	-0.0014 mg/L	-0.0014 mg/L	18:22:19
1	Cu 324.752†	1322.3	-154.0	-0.0010 mg/L	-0.0010 mg/L	18:22:19
1	Fe 238.204†	1054.6	56.2	-0.0069 mg/L	-0.0069 mg/L	18:22:40
1	Fe 234.349†	221.9	-5.8	-0.0050 mg/L	-0.0050 mg/L	18:22:40
1	Mg 279.077†	53.2	48.9	-0.0001 mg/L	-0.0001 mg/L	18:22:19
1	Mn 257.610†	1050.6	185.3	-0.0024 mg/L	-0.0024 mg/L	18:22:19
1	Mo 202.031†	32.5	24.1	0.0002 mg/L	0.0002 mg/L	18:22:40
1	Na 330.237†	1169.5	-6.8	0.6419 mg/L	0.6419 mg/L	18:22:19
1	Ni 231.604†	360.2	-7.0	-0.0021 mg/L	-0.0021 mg/L	18:22:40
1	Pb 220.353†	-122.8	-0.0	-0.0017 mg/L	-0.0017 mg/L	18:22:40
1	Sb 206.836†	74.8	-6.2	-0.0014 mg/L	-0.0014 mg/L	18:22:40
1	Se 196.026†	-6.0	2.5	0.0016 mg/L	0.0016 mg/L	18:22:40
1	Sn 189.927†	52.4	-24.0	-0.0144 mg/L	-0.0144 mg/L	18:22:40
1	Ti 337.279†	1159.3	210.2	-0.0005 mg/L	-0.0005 mg/L	18:22:19
1	Tl 190.801†	5.8	17.4	0.0325 mg/L	0.0325 mg/L	18:22:40
1	V 292.402†	2406.4	-89.8	-0.0007 mg/L	-0.0007 mg/L	18:22:19
1	Zn 213.857†	926.6	-43.1	-0.0011 mg/L	-0.0011 mg/L	18:22:40
2	Y 360.073	2448748.0	2448748.0			18:22:45
2	Ag 328.068†	-664.2	19.9	0.0003 mg/L	0.0003 mg/L	18:22:50
2	Al 237.313†	-311.5	6.8	0.0001 mg/L	0.0001 mg/L	18:23:11
2	As 188.979†	1.8	0.9	0.0000 mg/L	0.0000 mg/L	18:23:11
2	B 182.528†	-30.0	3.7	0.0024 mg/L	0.0024 mg/L	18:23:11
2	Ba 233.527†	-150.6	4.7	-0.0014 mg/L	-0.0014 mg/L	18:23:11
2	Be 313.107†	5257.9	120.7	-0.0001 mg/L	-0.0001 mg/L	18:22:50
2	Ca 315.886†	3539.4	443.0	-0.0125 mg/L	-0.0125 mg/L	18:22:50
2	Cd 228.802†	375.0	-17.2	0.0000 mg/L	0.0000 mg/L	18:23:11
2	Co 228.616†	-389.2	4.8	-0.0019 mg/L	-0.0019 mg/L	18:23:11
2	Cr 267.716†	1772.9	8.1	-0.0011 mg/L	-0.0011 mg/L	18:22:50
2	Cu 324.752†	1354.3	-103.7	-0.0008 mg/L	-0.0008 mg/L	18:22:50
2	Fe 238.204†	993.9	10.2	-0.0073 mg/L	-0.0073 mg/L	18:23:11
2	Fe 234.349†	219.2	-5.3	-0.0050 mg/L	-0.0050 mg/L	18:23:11
2	Mg 279.077†	49.6	46.1	-0.0002 mg/L	-0.0002 mg/L	18:22:50
2	Mn 257.610†	963.6	113.0	-0.0025 mg/L	-0.0025 mg/L	18:22:50
2	Mo 202.031†	29.1	21.1	-0.0001 mg/L	-0.0001 mg/L	18:23:11
2	Na 330.237†	1156.6	-3.4	0.6489 mg/L	0.6489 mg/L	18:22:50
2	Ni 231.604†	353.5	-8.7	-0.0021 mg/L	-0.0021 mg/L	18:23:11
2	Pb 220.353†	-118.8	2.2	-0.0014 mg/L	-0.0014 mg/L	18:23:11
2	Sb 206.836†	82.0	2.0	0.0008 mg/L	0.0008 mg/L	18:23:11
2	Se 196.026†	-9.8	-1.4	-0.0037 mg/L	-0.0037 mg/L	18:23:11
2	Sn 189.927†	46.2	-29.5	-0.0162 mg/L	-0.0162 mg/L	18:23:11
2	Ti 337.279†	1260.1	326.9	-0.0004 mg/L	-0.0004 mg/L	18:22:50
2	Tl 190.801†	7.3	18.9	0.0339 mg/L	0.0339 mg/L	18:23:11
2	V 292.402†	2412.3	-50.7	-0.0006 mg/L	-0.0006 mg/L	18:22:50
2	Zn 213.857†	926.6	-30.2	-0.0010 mg/L	-0.0010 mg/L	18:23:11

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 Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2465963.1				24345.79	0.99%
Ag 328.068†	80.5	0.0005 mg/L	0.00025	0.0005 mg/L	0.00025	56.37%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	15.3	0.0011 mg/L	0.00134	0.0011 mg/L	0.00134	124.02%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	-1.2	-0.0017 mg/L	0.00242	-0.0017 mg/L	0.00242	143.07%
QC value within limits for As 188.979 Recovery = Not calculated						
B 182.528†	5.0	0.0035 mg/L	0.00151	0.0035 mg/L	0.00151	43.03%

Ba	233.527†	4.8	-0.0014 mg/L	0.00000	-0.0014 mg/L	0.00000	0.08%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be	313.107†	88.1	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	7.39%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca	315.886†	352.5	-0.0132 mg/L	0.00086	-0.0132 mg/L	0.00086	6.55%
QC value within limits for Ca 315.886 Recovery = Not calculated							
Cd	228.802†	-14.6	0.0001 mg/L	0.00005	0.0001 mg/L	0.00005	81.86%
QC value within limits for Cd 228.802 Recovery = Not calculated							
Co	228.616†	6.4	-0.0019 mg/L	0.00003	-0.0019 mg/L	0.00003	1.67%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716†	-12.0	-0.0013 mg/L	0.00019	-0.0013 mg/L	0.00019	14.92%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	-128.8	-0.0009 mg/L	0.00020	-0.0009 mg/L	0.00020	22.03%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204†	33.2	-0.0071 mg/L	0.00026	-0.0071 mg/L	0.00026	3.62%
QC value within limits for Fe 238.204 Recovery = Not calculated							
Fe	234.349†	-5.6	-0.0050 mg/L	0.00001	-0.0050 mg/L	0.00001	0.15%
QC value within limits for Fe 234.349 Recovery = Not calculated							
Mg	279.077†	47.5	-0.0002 mg/L	0.00009	-0.0002 mg/L	0.00009	60.24%
QC value within limits for Mg 279.077 Recovery = Not calculated							
Mn	257.610†	149.2	-0.0025 mg/L	0.00005	-0.0025 mg/L	0.00005	2.10%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	22.6	0.0001 mg/L	0.00016	0.0001 mg/L	0.00016	309.23%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	330.237†	-5.1	0.6454 mg/L	0.00497	0.6454 mg/L	0.00497	0.77%
QC value within limits for Na 330.237 Recovery = Not calculated							
Ni	231.604†	-7.9	-0.0021 mg/L	0.00002	-0.0021 mg/L	0.00002	1.00%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb	220.353†	1.1	-0.0015 mg/L	0.00017	-0.0015 mg/L	0.00017	11.34%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb	206.836†	-2.1	-0.0003 mg/L	0.00159	-0.0003 mg/L	0.00159	560.83%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	0.6	-0.0010 mg/L	0.00381	-0.0010 mg/L	0.00381	363.18%
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn	189.927†	-26.8	-0.0153 mg/L	0.00123	-0.0153 mg/L	0.00123	8.02%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti	337.279†	268.6	-0.0004 mg/L	0.00011	-0.0004 mg/L	0.00011	25.15%
QC value within limits for Ti 337.279 Recovery = Not calculated							
Tl	190.801†	18.2	0.0332 mg/L	0.00102	0.0332 mg/L	0.00102	3.06%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated							
V	292.402†	-70.2	-0.0006 mg/L	0.00011	-0.0006 mg/L	0.00011	17.87%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	-36.7	-0.0010 mg/L	0.00010	-0.0010 mg/L	0.00010	9.39%
QC value within limits for Zn 213.857 Recovery = Not calculated							
QC Failed. Continue with analysis.							

Sequence No.: 35  
 Sample ID: 0606346-05  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 29  
 Date Collected: 6/22/2006 6:24:47 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 0606346-05

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2483216.4	2483216.4					18:26:21
1	Ag 328.068†	-664.9	28.5	0.0003	mg/L	0.0003	mg/L	18:26:26
1	Al 237.313†	-155.5	164.7	0.0136	mg/L	0.0136	mg/L	18:26:46
1	As 188.979†	2.1	1.1	0.0002	mg/L	0.0002	mg/L	18:26:46
1	B 182.528†	15.7	49.1	0.0391	mg/L	0.0391	mg/L	18:26:46
1	Ba 233.527†	3433.5	3536.6	0.0181	mg/L	0.0181	mg/L	18:26:46
1	Be 313.107†	5004.6	-201.7	-0.0001	mg/L	-0.0001	mg/L	18:26:26
1	Ca 315.886†	3198009.9	3146532.5	21.18	mg/L	21.18	mg/L	18:26:21
1	Cd 228.802†	397.6	-0.2	0.0002	mg/L	0.0002	mg/L	18:26:46
1	Co 228.616†	-335.6	63.0	-0.0011	mg/L	-0.0011	mg/L	18:26:46
1	Cr 267.716†	1710.9	-77.5	-0.0017	mg/L	-0.0017	mg/L	18:26:26
1	Cu 324.752†	1751.1	268.4	0.0013	mg/L	0.0013	mg/L	18:26:26
1	Fe 238.204†	15026.5	13816.7	0.1021	mg/L	0.1021	mg/L	18:26:26

1	Fe 234.349†	5303.2	4998.7	0.1171 mg/L	0.1171 mg/L	18:26:26
1	Mg 279.077†	76083.4	74928.9	3.403 mg/L	3.403 mg/L	18:26:26
1	Mn 257.610†	107622.1	105144.4	0.1030 mg/L	0.1030 mg/L	18:26:26
1	Mo 202.031†	21.0	12.7	-0.0007 mg/L	-0.0007 mg/L	18:26:46
1	Na 330.237†	18827.8	17384.4	37.05 mg/L	37.05 mg/L	18:26:26
1	Ni 231.604†	440.3	71.8	-0.0007 mg/L	-0.0007 mg/L	18:26:46
1	Pb 220.353†	-81.1	41.0	0.0029 mg/L	0.0029 mg/L	18:26:46
1	Sb 206.836†	77.1	-3.9	-0.0008 mg/L	-0.0008 mg/L	18:26:46
1	Se 196.026†	-2.1	6.4	0.0071 mg/L	0.0071 mg/L	18:26:46
1	Sn 189.927†	123.6	46.1	0.0077 mg/L	0.0077 mg/L	18:26:46
1	Ti 337.279†	1541.1	586.2	0.0000 mg/L	0.0000 mg/L	18:26:26
1	Tl 190.801†	8.3	19.9	0.0362 mg/L	0.0362 mg/L	18:26:46
1	V 292.402†	2552.6	54.1	-0.0001 mg/L	-0.0001 mg/L	18:26:26
1	Zn 213.857†	1857.7	873.9	0.0087 mg/L	0.0087 mg/L	18:26:46
2	Y 360.073	2466805.0	2466805.0			18:26:52
2	Ag 328.068†	-646.7	42.1	0.0003 mg/L	0.0003 mg/L	18:26:58
2	Al 237.313†	-176.8	142.6	0.0111 mg/L	0.0111 mg/L	18:27:18
2	As 188.979†	0.4	-0.5	-0.0011 mg/L	-0.0011 mg/L	18:27:18
2	B 182.528†	9.0	42.6	0.0339 mg/L	0.0339 mg/L	18:27:18
2	Ba 233.527†	3438.5	3564.1	0.0182 mg/L	0.0182 mg/L	18:27:18
2	Be 313.107†	5050.8	-123.1	-0.0001 mg/L	-0.0001 mg/L	18:26:58
2	Ca 315.886†	3187853.9	3157417.7	21.25 mg/L	21.25 mg/L	18:26:52
2	Cd 228.802†	362.1	-32.7	-0.0002 mg/L	-0.0002 mg/L	18:27:18
2	Co 228.616†	-321.7	74.6	-0.0009 mg/L	-0.0009 mg/L	18:27:18
2	Cr 267.716†	1738.0	-39.5	-0.0015 mg/L	-0.0015 mg/L	18:26:58
2	Cu 324.752†	1744.4	273.2	0.0013 mg/L	0.0013 mg/L	18:26:58
2	Fe 238.204†	14966.3	13855.4	0.1025 mg/L	0.1025 mg/L	18:26:58
2	Fe 234.349†	5251.5	4982.2	0.1167 mg/L	0.1167 mg/L	18:26:58
2	Mg 279.077†	76097.4	75441.2	3.426 mg/L	3.426 mg/L	18:26:58
2	Mn 257.610†	107234.4	105465.2	0.1033 mg/L	0.1033 mg/L	18:26:58
2	Mo 202.031†	13.1	5.0	-0.0013 mg/L	-0.0013 mg/L	18:27:18
2	Na 330.237†	18669.8	17351.1	36.98 mg/L	36.98 mg/L	18:26:58
2	Ni 231.604†	451.7	86.0	-0.0005 mg/L	-0.0005 mg/L	18:27:18
2	Pb 220.353†	-86.8	34.9	0.0022 mg/L	0.0022 mg/L	18:27:18
2	Sb 206.836†	80.0	-0.6	0.0001 mg/L	0.0001 mg/L	18:27:18
2	Se 196.026†	0.4	8.9	0.0106 mg/L	0.0106 mg/L	18:27:18
2	Sn 189.927†	139.6	62.8	0.0129 mg/L	0.0129 mg/L	18:27:18
2	Ti 337.279†	1431.0	487.2	-0.0001 mg/L	-0.0001 mg/L	18:26:58
2	Tl 190.801†	4.8	16.4	0.0331 mg/L	0.0331 mg/L	18:27:18
2	V 292.402†	2490.9	9.7	-0.0003 mg/L	-0.0003 mg/L	18:26:58
2	Zn 213.857†	1856.6	885.0	0.0088 mg/L	0.0088 mg/L	18:27:18

## Mean Data: 0606346-05

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2475010.7						11604.59	0.47%
Ag 328.068†	35.3	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003	9.04%
Al 237.313†	153.7	0.0123	mg/L	0.00176	0.0123	mg/L	0.00176	14.26%
As 188.979†	0.3	-0.0004	mg/L	0.00096	-0.0004	mg/L	0.00096	220.80%
B 182.528†	45.9	0.0365	mg/L	0.00372	0.0365	mg/L	0.00372	10.19%
Ba 233.527†	3550.4	0.0182	mg/L	0.00011	0.0182	mg/L	0.00011	0.59%
Be 313.107†	-162.4	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	6.38%
Ca 315.886†	3151975.1	21.21	mg/L	0.052	21.21	mg/L	0.052	0.24%
Cd 228.802†	-16.4	0.0000	mg/L	0.00027	0.0000	mg/L	0.00027	795.98%
Co 228.616†	68.8	-0.0010	mg/L	0.00012	-0.0010	mg/L	0.00012	11.40%
Cr 267.716†	-58.5	-0.0016	mg/L	0.00018	-0.0016	mg/L	0.00018	11.15%
Cu 324.752†	270.8	0.0013	mg/L	0.00002	0.0013	mg/L	0.00002	1.43%
Fe 238.204†	13836.1	0.1023	mg/L	0.00022	0.1023	mg/L	0.00022	0.21%
Fe 234.349†	4990.4	0.1169	mg/L	0.00029	0.1169	mg/L	0.00029	0.24%
Mg 279.077†	75185.0	3.415	mg/L	0.0165	3.415	mg/L	0.0165	0.48%
Mn 257.610†	105304.8	0.1031	mg/L	0.00023	0.1031	mg/L	0.00023	0.22%
Mo 202.031†	8.9	-0.0010	mg/L	0.00041	-0.0010	mg/L	0.00041	41.84%
Na 330.237†	17367.8	37.02	mg/L	0.049	37.02	mg/L	0.049	0.13%
Ni 231.604†	78.9	-0.0006	mg/L	0.00018	-0.0006	mg/L	0.00018	30.13%
Pb 220.353†	38.0	0.0025	mg/L	0.00048	0.0025	mg/L	0.00048	19.02%
Sb 206.836†	-2.3	-0.0003	mg/L	0.00064	-0.0003	mg/L	0.00064	203.36%
Se 196.026†	7.6	0.0089	mg/L	0.00244	0.0089	mg/L	0.00244	27.59%
Sn 189.927†	54.4	0.0103	mg/L	0.00371	0.0103	mg/L	0.00371	36.00%
Ti 337.279†	536.7	-0.0001	mg/L	0.00009	-0.0001	mg/L	0.00009	116.95%
Tl 190.801†	18.2	0.0347	mg/L	0.00221	0.0347	mg/L	0.00221	6.36%

V 292.402†	31.9	-0.0002 mg/L	0.00013	-0.0002 mg/L	0.00013	56.25%
Zn 213.857†	879.4	0.0088 mg/L	0.00008	0.0088 mg/L	0.00008	0.95%

Sequence No.: 36  
 Sample ID: 0606346-06  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 30  
 Date Collected: 6/22/2006 6:28:57 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: 0606346-06

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2495338.8	2495338.8			18:30:31
1	Ag 328.068†	-389.5	301.6	0.0011 mg/L	0.0011 mg/L	18:30:37
1	Al 237.313†	219.5	533.0	0.0498 mg/L	0.0498 mg/L	18:30:57
1	As 188.979†	1.8	0.8	0.0000 mg/L	0.0000 mg/L	18:30:57
1	B 182.528†	36.0	68.9	0.0551 mg/L	0.0551 mg/L	18:30:57
1	Ba 233.527†	5914.3	5914.6	0.0314 mg/L	0.0314 mg/L	18:30:37
1	Be 313.107†	5181.6	-52.2	-0.0001 mg/L	-0.0001 mg/L	18:30:37
1	Ca 315.886†	3724481.2	3647218.5	24.55 mg/L	24.55 mg/L	18:30:31
1	Cd 228.802†	383.2	-16.2	0.0000 mg/L	0.0000 mg/L	18:30:57
1	Co 228.616†	-329.7	70.4	-0.0010 mg/L	-0.0010 mg/L	18:30:57
1	Cr 267.716†	2194.3	388.0	0.0012 mg/L	0.0012 mg/L	18:30:37
1	Cu 324.752†	2911.3	1397.0	0.0076 mg/L	0.0076 mg/L	18:30:37
1	Fe 238.204†	60424.0	58238.2	0.4543 mg/L	0.4543 mg/L	18:30:37
1	Fe 234.349†	20109.1	19484.3	0.4708 mg/L	0.4708 mg/L	18:30:37
1	Mg 279.077†	93818.8	91947.0	4.178 mg/L	4.178 mg/L	18:30:37
1	Mn 257.610†	563529.4	551457.7	0.5512 mg/L	0.5512 mg/L	18:30:31
1	Mo 202.031†	5.3	-2.8	-0.0019 mg/L	-0.0019 mg/L	18:30:57
1	Na 330.237†	19840.0	18286.3	38.94 mg/L	38.94 mg/L	18:30:37
1	Ni 231.604†	524.8	152.5	0.0007 mg/L	0.0007 mg/L	18:30:57
1	Pb 220.353†	-62.7	59.4	0.0049 mg/L	0.0049 mg/L	18:30:57
1	Sb 206.836†	75.2	-6.2	-0.0014 mg/L	-0.0014 mg/L	18:30:57
1	Se 196.026†	0.7	9.2	0.0110 mg/L	0.0110 mg/L	18:30:57
1	Sn 189.927†	138.8	60.4	0.0122 mg/L	0.0122 mg/L	18:30:57
1	Ti 337.279†	3103.1	2109.8	0.0020 mg/L	0.0020 mg/L	18:30:37
1	Tl 190.801†	-9.8	2.1	0.0263 mg/L	0.0263 mg/L	18:30:57
1	V 292.402†	2860.4	343.5	0.0011 mg/L	0.0011 mg/L	18:30:37
1	Zn 213.857†	2732.1	1722.0	0.0178 mg/L	0.0178 mg/L	18:30:57
2	Y 360.073	2489472.9	2489472.9			18:31:03
2	Ag 328.068†	-352.5	337.0	0.0012 mg/L	0.0012 mg/L	18:31:08
2	Al 237.313†	216.7	530.7	0.0495 mg/L	0.0495 mg/L	18:31:28
2	As 188.979†	1.7	0.7	-0.0001 mg/L	-0.0001 mg/L	18:31:28
2	B 182.528†	27.6	60.8	0.0486 mg/L	0.0486 mg/L	18:31:28
2	Ba 233.527†	5881.6	5933.1	0.0313 mg/L	0.0313 mg/L	18:31:08
2	Be 313.107†	5151.8	-69.5	-0.0001 mg/L	-0.0001 mg/L	18:31:08
2	Ca 315.886†	3714011.9	3645534.6	24.54 mg/L	24.54 mg/L	18:31:03
2	Cd 228.802†	362.5	-35.6	-0.0002 mg/L	-0.0002 mg/L	18:31:28
2	Co 228.616†	-320.3	78.8	-0.0009 mg/L	-0.0009 mg/L	18:31:28
2	Cr 267.716†	2171.7	370.9	0.0011 mg/L	0.0011 mg/L	18:31:08
2	Cu 324.752†	2903.1	1395.7	0.0076 mg/L	0.0076 mg/L	18:31:08
2	Fe 238.204†	60497.0	58449.4	0.4560 mg/L	0.4560 mg/L	18:31:08
2	Fe 234.349†	20049.6	19472.3	0.4705 mg/L	0.4705 mg/L	18:31:08
2	Mg 279.077†	93903.7	92247.1	4.191 mg/L	4.191 mg/L	18:31:08
2	Mn 257.610†	561507.0	550772.2	0.5505 mg/L	0.5505 mg/L	18:31:03
2	Mo 202.031†	18.3	10.0	-0.0009 mg/L	-0.0009 mg/L	18:31:28
2	Na 330.237†	19836.1	18328.3	39.03 mg/L	39.03 mg/L	18:31:08
2	Ni 231.604†	493.7	123.2	0.0002 mg/L	0.0002 mg/L	18:31:28
2	Pb 220.353†	-53.7	68.2	0.0058 mg/L	0.0058 mg/L	18:31:28
2	Sb 206.836†	78.3	-3.0	-0.0005 mg/L	-0.0005 mg/L	18:31:28
2	Se 196.026†	-6.1	2.4	0.0016 mg/L	0.0016 mg/L	18:31:28
2	Sn 189.927†	141.7	63.6	0.0132 mg/L	0.0132 mg/L	18:31:28
2	Ti 337.279†	9626.9	8525.9	0.0105 mg/L	0.0105 mg/L	18:31:08
2	Tl 190.801†	-11.0	0.9	0.0252 mg/L	0.0252 mg/L	18:31:28
2	V 292.402†	2915.8	404.6	0.0013 mg/L	0.0013 mg/L	18:31:08
2	Zn 213.857†	2722.4	1718.7	0.0178 mg/L	0.0178 mg/L	18:31:28

Mean Data: 0606346-06

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2492405.8				4147.79	0.17%
Ag 328.068†	319.3	0.0012 mg/L	0.00007	0.0012 mg/L	0.00007	6.42%
Al 237.313†	531.9	0.0497 mg/L	0.00018	0.0497 mg/L	0.00018	0.37%
As 188.979†	0.8	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	136.87%
B 182.528†	64.9	0.0519 mg/L	0.00463	0.0519 mg/L	0.00463	8.93%
Ba 233.527†	5942.4	0.0313 mg/L	0.00007	0.0313 mg/L	0.00007	0.23%
Be 313.107†	-60.9	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	1.75%
Ca 315.886†	3646376.5	24.54 mg/L	0.008	24.54 mg/L	0.008	0.03%
Cd 228.802†	-25.9	-0.0001 mg/L	0.00017	-0.0001 mg/L	0.00017	185.15%
Co 228.616†	74.6	-0.0009 mg/L	0.00007	-0.0009 mg/L	0.00007	7.65%
Cr 267.716†	379.5	0.0012 mg/L	0.00008	0.0012 mg/L	0.00008	6.76%
Cu 324.752†	1396.4	0.0076 mg/L	0.00000	0.0076 mg/L	0.00000	0.03%
Fe 238.204†	58343.8	0.4551 mg/L	0.00118	0.4551 mg/L	0.00118	0.26%
Fe 234.349†	19478.3	0.4706 mg/L	0.00020	0.4706 mg/L	0.00020	0.04%
Mg 279.077†	92097.1	4.185 mg/L	0.0096	4.185 mg/L	0.0096	0.23%
Mn 257.610†	551115.0	0.5508 mg/L	0.00049	0.5508 mg/L	0.00049	0.09%
Mo 202.031†	3.6	-0.0014 mg/L	0.00069	-0.0014 mg/L	0.00069	50.49%
Na 330.237†	18307.3	38.99 mg/L	0.062	38.99 mg/L	0.062	0.16%
Ni 231.604†	137.9	0.0005 mg/L	0.00036	0.0005 mg/L	0.00036	80.91%
Pb 220.353†	63.8	0.0054 mg/L	0.00069	0.0054 mg/L	0.00069	12.86%
Sb 206.836†	-4.6	-0.0010 mg/L	0.00063	-0.0010 mg/L	0.00063	63.53%
Se 196.026†	5.8	0.0063 mg/L	0.00665	0.0063 mg/L	0.00665	105.98%
Sn 189.927†	62.0	0.0127 mg/L	0.00073	0.0127 mg/L	0.00073	5.72%
Ti 337.279†	5317.9	0.0063 mg/L	0.00603	0.0063 mg/L	0.00603	96.09%
Tl 190.801†	1.5	0.0258 mg/L	0.00077	0.0258 mg/L	0.00077	2.98%
V 292.402†	374.1	0.0012 mg/L	0.00017	0.0012 mg/L	0.00017	14.36%
Zn 213.857†	1720.4	0.0178 mg/L	0.00002	0.0178 mg/L	0.00002	0.09%

Sequence No.: 37  
 Sample ID: 0606346-07  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 31  
 Date Collected: 6/22/2006 6:33:08 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 0606346-07

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2463968.2	2463968.2			18:34:43
1	Ag 328.068†	2093.1	2760.8	0.0084 mg/L	0.0084 mg/L	18:34:48
1	Al 237.313†	4611.8	4895.3	0.5217 mg/L	0.5217 mg/L	18:35:09
1	As 188.979†	4.7	3.7	0.0025 mg/L	0.0025 mg/L	18:35:09
1	B 182.528†	47.1	80.4	0.0644 mg/L	0.0644 mg/L	18:35:09
1	Ba 233.527†	8484.5	8576.5	0.0458 mg/L	0.0458 mg/L	18:35:09
1	Be 313.107†	5139.6	-29.3	-0.0001 mg/L	-0.0001 mg/L	18:34:48
1	Ca 315.886†	4118152.8	4084437.4	27.50 mg/L	27.50 mg/L	18:34:43
1	Cd 228.802†	542.7	146.9	0.0019 mg/L	0.0019 mg/L	18:35:09
1	Co 228.616†	-289.5	106.2	-0.0006 mg/L	-0.0006 mg/L	18:35:09
1	Cr 267.716†	11145.5	9300.0	0.0602 mg/L	0.0602 mg/L	18:34:48
1	Cu 324.752†	19478.9	17877.8	0.0989 mg/L	0.0989 mg/L	18:34:48
1	Fe 238.204†	294724.9	291550.7	2.304 mg/L	2.304 mg/L	18:34:48
1	Fe 234.349†	95851.8	94914.8	2.312 mg/L	2.312 mg/L	18:34:48
1	Mg 279.077†	100171.5	99423.2	4.516 mg/L	4.516 mg/L	18:34:48
1	Mn 257.610†	952259.7	944329.1	0.9458 mg/L	0.9458 mg/L	18:34:43
1	Mo 202.031†	14.2	6.1	-0.0010 mg/L	-0.0010 mg/L	18:35:09
1	Na 330.237†	19815.0	18509.2	39.41 mg/L	39.41 mg/L	18:34:48
1	Ni 231.604†	695.8	328.8	0.0038 mg/L	0.0038 mg/L	18:35:09
1	Pb 220.353†	218.8	338.1	0.0356 mg/L	0.0356 mg/L	18:35:09
1	Sb 206.836†	80.7	0.2	-0.0004 mg/L	-0.0004 mg/L	18:35:09
1	Se 196.026†	-2.2	6.2	0.0069 mg/L	0.0069 mg/L	18:35:09
1	Sn 189.927†	167.1	90.2	0.0217 mg/L	0.0217 mg/L	18:35:09
1	Ti 337.279†	22321.2	21223.7	0.0274 mg/L	0.0274 mg/L	18:34:48
1	Tl 190.801†	-23.7	-11.9	0.0192 mg/L	0.0192 mg/L	18:35:09
1	V 292.402†	3379.7	894.7	0.0037 mg/L	0.0037 mg/L	18:34:48
1	Zn 213.857†	11116.2	10077.9	0.1075 mg/L	0.1075 mg/L	18:35:09
2	Y 360.073	2464343.3	2464343.3			18:35:15
2	Ag 328.068†	1981.6	2649.9	0.0081 mg/L	0.0081 mg/L	18:35:20
2	Al 237.313†	4608.5	4891.4	0.5212 mg/L	0.5212 mg/L	18:35:40



2	As 188.979†	8.4	7.4	0.0056 mg/L	0.0056 mg/L	18:35:40
2	B 182.528†	40.9	74.2	0.0594 mg/L	0.0594 mg/L	18:35:40
2	Ba 233.527†	8447.1	8538.1	0.0456 mg/L	0.0456 mg/L	18:35:40
2	Be 313.107†	5238.5	68.1	-0.0001 mg/L	-0.0001 mg/L	18:35:20
2	Ca 315.886†	4122263.4	4087894.7	27.52 mg/L	27.52 mg/L	18:35:15
2	Cd 228.802†	556.3	160.3	0.0021 mg/L	0.0021 mg/L	18:35:40
2	Co 228.616†	-300.2	95.6	-0.0007 mg/L	-0.0007 mg/L	18:35:40
2	Cr 267.716†	11126.7	9279.7	0.0601 mg/L	0.0601 mg/L	18:35:20
2	Cu 324.752†	19689.2	18083.5	0.1001 mg/L	0.1001 mg/L	18:35:20
2	Fe 238.204†	296527.5	293295.1	2.318 mg/L	2.318 mg/L	18:35:20
2	Fe 234.349†	96492.5	95536.1	2.327 mg/L	2.327 mg/L	18:35:20
2	Mg 279.077†	100663.0	99895.8	4.537 mg/L	4.537 mg/L	18:35:20
2	Mn 257.610†	952854.3	944775.4	0.9462 mg/L	0.9462 mg/L	18:35:15
2	Mo 202.031†	18.0	9.9	-0.0008 mg/L	-0.0008 mg/L	18:35:40
2	Na 330.237†	20031.9	18721.3	39.85 mg/L	39.85 mg/L	18:35:20
2	Ni 231.604†	704.1	337.0	0.0040 mg/L	0.0040 mg/L	18:35:40
2	Pb 220.353†	210.8	330.1	0.0347 mg/L	0.0347 mg/L	18:35:40
2	Sb 206.836†	74.5	-6.0	-0.0021 mg/L	-0.0021 mg/L	18:35:40
2	Se 196.026†	-2.5	5.9	0.0065 mg/L	0.0065 mg/L	18:35:40
2	Sn 189.927†	172.5	95.5	0.0233 mg/L	0.0233 mg/L	18:35:40
2	Ti 337.279†	22578.0	21475.2	0.0278 mg/L	0.0278 mg/L	18:35:20
2	Tl 190.801†	-21.2	-9.3	0.0215 mg/L	0.0215 mg/L	18:35:40
2	V 292.402†	3449.0	962.9	0.0040 mg/L	0.0040 mg/L	18:35:20
2	Zn 213.857†	11085.7	10045.9	0.1072 mg/L	0.1072 mg/L	18:35:40

Mean Data: 0606346-07

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2464155.7				265.22	0.01%
Ag 328.068†	2705.4	0.0083 mg/L	0.00023	0.0083 mg/L	0.00023	2.82%
Al 237.313†	4893.4	0.5215 mg/L	0.00040	0.5215 mg/L	0.00040	0.08%
As 188.979†	5.6	0.0041 mg/L	0.00219	0.0041 mg/L	0.00219	53.76%
B 182.528†	77.3	0.0619 mg/L	0.00355	0.0619 mg/L	0.00355	5.73%
Ba 233.527†	8557.3	0.0457 mg/L	0.00015	0.0457 mg/L	0.00015	0.33%
Be 313.107†	19.4	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	11.05%
Ca 315.886†	4086166.1	27.51 mg/L	0.016	27.51 mg/L	0.016	0.06%
Cd 228.802†	153.6	0.0020 mg/L	0.00011	0.0020 mg/L	0.00011	5.31%
Co 228.616†	100.9	-0.0006 mg/L	0.00011	-0.0006 mg/L	0.00011	16.44%
Cr 267.716†	9289.9	0.0602 mg/L	0.00009	0.0602 mg/L	0.00009	0.16%
Cu 324.752†	17980.6	0.0995 mg/L	0.00081	0.0995 mg/L	0.00081	0.81%
Fe 238.204†	292422.9	2.311 mg/L	0.0098	2.311 mg/L	0.0098	0.42%
Fe 234.349†	95225.4	2.320 mg/L	0.0107	2.320 mg/L	0.0107	0.46%
Mg 279.077†	99659.5	4.526 mg/L	0.0152	4.526 mg/L	0.0152	0.34%
Mn 257.610†	944552.2	0.9460 mg/L	0.00032	0.9460 mg/L	0.00032	0.03%
Mo 202.031†	8.0	-0.0009 mg/L	0.00020	-0.0009 mg/L	0.00020	22.77%
Na 330.237†	18615.3	39.63 mg/L	0.314	39.63 mg/L	0.314	0.79%
Ni 231.604†	332.9	0.0039 mg/L	0.00010	0.0039 mg/L	0.00010	2.62%
Pb 220.353†	334.1	0.0351 mg/L	0.00062	0.0351 mg/L	0.00062	1.76%
Sb 206.836†	-2.9	-0.0012 mg/L	0.00120	-0.0012 mg/L	0.00120	96.23%
Se 196.026†	6.1	0.0067 mg/L	0.00030	0.0067 mg/L	0.00030	4.52%
Sn 189.927†	92.9	0.0225 mg/L	0.00119	0.0225 mg/L	0.00119	5.27%
Ti 337.279†	21349.5	0.0276 mg/L	0.00024	0.0276 mg/L	0.00024	0.86%
Tl 190.801†	-10.6	0.0204 mg/L	0.00163	0.0204 mg/L	0.00163	8.00%
V 292.402†	928.8	0.0039 mg/L	0.00020	0.0039 mg/L	0.00020	5.06%
Zn 213.857†	10061.9	0.1073 mg/L	0.00024	0.1073 mg/L	0.00024	0.23%

Sequence No.: 38  
 Sample ID: 0606346-08  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 32  
 Date Collected: 6/22/2006 6:37:20 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 0606346-08

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2456773.3	2456773.3			18:38:51
1	Ag 328.068†	830.5	1510.1	0.0047 mg/L	0.0047 mg/L	18:38:57
1	Al 237.313†	3701.3	4002.4	0.4276 mg/L	0.4276 mg/L	18:38:57

1	As 188.979†	1.3	0.4	-0.0003 mg/L	-0.0003 mg/L	18:39:17
1	B 182.528†	46.5	79.9	0.0640 mg/L	0.0640 mg/L	18:39:17
1	Ba 233.527†	7582.4	7703.2	0.0410 mg/L	0.0410 mg/L	18:38:57
1	Be 313.107†	5177.5	23.4	-0.0001 mg/L	-0.0001 mg/L	18:38:57
1	Ca 315.886†	4086729.9	4065127.6	27.37 mg/L	27.37 mg/L	18:38:51
1	Cd 228.802†	394.0	0.4	0.0002 mg/L	0.0002 mg/L	18:39:17
1	Co 228.616†	-309.1	85.8	-0.0008 mg/L	-0.0008 mg/L	18:39:17
1	Cr 267.716†	7135.6	5340.8	0.0340 mg/L	0.0340 mg/L	18:38:57
1	Cu 324.752†	14280.0	12759.0	0.0706 mg/L	0.0706 mg/L	18:38:57
1	Fe 238.204†	198228.4	196348.0	1.549 mg/L	1.549 mg/L	18:38:51
1	Fe 234.349†	63453.5	62941.8	1.532 mg/L	1.532 mg/L	18:38:57
1	Mg 279.077†	97858.4	97411.7	4.426 mg/L	4.426 mg/L	18:38:57
1	Mn 257.610†	955509.5	950332.2	0.9518 mg/L	0.9518 mg/L	18:38:51
1	Mo 202.031†	11.3	3.3	-0.0013 mg/L	-0.0013 mg/L	18:39:17
1	Na 330.237†	19097.0	17852.0	38.03 mg/L	38.03 mg/L	18:38:57
1	Ni 231.604†	670.2	305.4	0.0034 mg/L	0.0034 mg/L	18:39:17
1	Pb 220.353†	144.6	264.9	0.0275 mg/L	0.0275 mg/L	18:39:17
1	Sb 206.836†	82.1	1.8	0.0004 mg/L	0.0004 mg/L	18:39:17
1	Se 196.026†	-2.5	6.0	0.0065 mg/L	0.0065 mg/L	18:39:17
1	Sn 189.927†	159.2	82.8	0.0193 mg/L	0.0193 mg/L	18:39:17
1	Ti 337.279†	17681.9	16670.2	0.0214 mg/L	0.0214 mg/L	18:38:57
1	Tl 190.801†	-24.7	-13.0	0.0183 mg/L	0.0183 mg/L	18:39:17
1	V 292.402†	3340.1	865.1	0.0034 mg/L	0.0034 mg/L	18:38:57
1	Zn 213.857†	9250.8	8253.1	0.0879 mg/L	0.0879 mg/L	18:38:57
2	Y 360.073	2444559.2	2444559.2			18:39:23
2	Ag 328.068†	814.5	1498.2	0.0047 mg/L	0.0047 mg/L	18:39:29
2	Al 237.313†	3754.9	4074.5	0.4355 mg/L	0.4355 mg/L	18:39:29
2	As 188.979†	5.5	4.6	0.0032 mg/L	0.0032 mg/L	18:39:49
2	B 182.528†	41.5	75.2	0.0602 mg/L	0.0602 mg/L	18:39:49
2	Ba 233.527†	7635.3	7793.7	0.0415 mg/L	0.0415 mg/L	18:39:29
2	Be 313.107†	5153.0	24.6	-0.0001 mg/L	-0.0001 mg/L	18:39:29
2	Ca 315.886†	4085026.4	4083749.9	27.49 mg/L	27.49 mg/L	18:39:23
2	Cd 228.802†	393.3	1.8	0.0002 mg/L	0.0002 mg/L	18:39:49
2	Co 228.616†	-298.5	94.9	-0.0007 mg/L	-0.0007 mg/L	18:39:49
2	Cr 267.716†	7129.7	5370.3	0.0342 mg/L	0.0342 mg/L	18:39:29
2	Cu 324.752†	14366.1	12916.2	0.0714 mg/L	0.0714 mg/L	18:39:29
2	Fe 238.204†	198095.6	197201.2	1.556 mg/L	1.556 mg/L	18:39:23
2	Fe 234.349†	63815.5	63619.6	1.548 mg/L	1.548 mg/L	18:39:29
2	Mg 279.077†	98402.6	98442.9	4.473 mg/L	4.473 mg/L	18:39:29
2	Mn 257.610†	953344.6	952918.8	0.9544 mg/L	0.9544 mg/L	18:39:23
2	Mo 202.031†	11.2	3.3	-0.0013 mg/L	-0.0013 mg/L	18:39:49
2	Na 330.237†	19220.0	18070.0	38.49 mg/L	38.49 mg/L	18:39:29
2	Ni 231.604†	670.8	309.4	0.0035 mg/L	0.0035 mg/L	18:39:49
2	Pb 220.353†	138.4	259.4	0.0269 mg/L	0.0269 mg/L	18:39:49
2	Sb 206.836†	75.1	-4.7	-0.0014 mg/L	-0.0014 mg/L	18:39:49
2	Se 196.026†	0.8	9.3	0.0111 mg/L	0.0111 mg/L	18:39:49
2	Sn 189.927†	179.0	103.4	0.0258 mg/L	0.0258 mg/L	18:39:49
2	Ti 337.279†	18279.2	17355.8	0.0223 mg/L	0.0223 mg/L	18:39:29
2	Tl 190.801†	-13.2	-1.5	0.0288 mg/L	0.0288 mg/L	18:39:49
2	V 292.402†	3380.4	922.0	0.0037 mg/L	0.0037 mg/L	18:39:29
2	Zn 213.857†	9357.6	8406.0	0.0896 mg/L	0.0896 mg/L	18:39:29

Mean Data: 0606346-08

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2450666.3				8636.65	0.35%
Ag 328.068†	1504.2	0.0047 mg/L	0.00002	0.0047 mg/L	0.00002	0.53%
Al 237.313†	4038.4	0.4315 mg/L	0.00556	0.4315 mg/L	0.00556	1.29%
As 188.979†	2.5	0.0015 mg/L	0.00248	0.0015 mg/L	0.00248	166.76%
B 182.528†	77.5	0.0621 mg/L	0.00271	0.0621 mg/L	0.00271	4.36%
Ba 233.527†	7748.5	0.0413 mg/L	0.00035	0.0413 mg/L	0.00035	0.85%
Be 313.107†	24.0	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	0.16%
Ca 315.886†	4074438.7	27.43 mg/L	0.089	27.43 mg/L	0.089	0.32%
Cd 228.802†	1.1	0.0002 mg/L	0.00000	0.0002 mg/L	0.00000	1.66%
Co 228.616†	90.3	-0.0008 mg/L	0.00009	-0.0008 mg/L	0.00009	11.60%
Cr 267.716†	5355.5	0.0341 mg/L	0.00014	0.0341 mg/L	0.00014	0.41%
Cu 324.752†	12837.6	0.0710 mg/L	0.00062	0.0710 mg/L	0.00062	0.87%
Fe 238.204†	196774.6	1.553 mg/L	0.0048	1.553 mg/L	0.0048	0.31%
Fe 234.349†	63280.7	1.540 mg/L	0.0117	1.540 mg/L	0.0117	0.76%
Mg 279.077†	97927.3	4.449 mg/L	0.0331	4.449 mg/L	0.0331	0.74%

Mn 257.610†	951625.5	0.9531 mg/L	0.00184	0.9531 mg/L	0.00184	0.19%
Mo 202.031†	3.3	-0.0013 mg/L	0.00000	-0.0013 mg/L	0.00000	0.09%
Na 330.237†	17961.0	38.26 mg/L	0.323	38.26 mg/L	0.323	0.84%
Ni 231.604†	307.4	0.0034 mg/L	0.00005	0.0034 mg/L	0.00005	1.44%
Pb 220.353†	262.1	0.0272 mg/L	0.00043	0.0272 mg/L	0.00043	1.57%
Sb 206.836†	-1.5	-0.0005 mg/L	0.00127	-0.0005 mg/L	0.00127	234.91%
Se 196.026†	7.6	0.0088 mg/L	0.00326	0.0088 mg/L	0.00326	37.00%
Sn 189.927†	93.1	0.0226 mg/L	0.00459	0.0226 mg/L	0.00459	20.35%
Ti 337.279†	17013.0	0.0218 mg/L	0.00064	0.0218 mg/L	0.00064	2.95%
Tl 190.801†	-7.2	0.0235 mg/L	0.00742	0.0235 mg/L	0.00742	31.55%
V 292.402†	893.5	0.0035 mg/L	0.00016	0.0035 mg/L	0.00016	4.65%
Zn 213.857†	8329.6	0.0887 mg/L	0.00116	0.0887 mg/L	0.00116	1.31%

Sequence No.: 39  
Sample ID: 0606346-09  
Analyst:  
Initial Sample Wt:  
Dilution:

Autosampler Location: 33  
Date Collected: 6/22/2006 6:41:24 PM  
Data Type: Original  
Initial Sample Vol:  
Sample Prep Vol:

Replicate Data: 0606346-09

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2467953.4	2467953.4			18:42:56
1	Ag 328.068†	1152.7	1825.6	0.0056 mg/L	0.0056 mg/L	18:43:01
1	Al 237.313†	4397.3	4675.5	0.4990 mg/L	0.4990 mg/L	18:43:22
1	As 188.979†	3.7	2.7	0.0017 mg/L	0.0017 mg/L	18:43:22
1	B 182.528†	36.4	69.7	0.0557 mg/L	0.0557 mg/L	18:43:22
1	Ba 233.527†	7535.5	7622.5	0.0406 mg/L	0.0406 mg/L	18:43:22
1	Be 313.107†	5212.4	34.7	-0.0001 mg/L	-0.0001 mg/L	18:43:01
1	Ca 315.886†	4092785.8	4052699.3	27.28 mg/L	27.28 mg/L	18:42:56
1	Cd 228.802†	383.6	-11.6	0.0000 mg/L	0.0000 mg/L	18:43:22
1	Co 228.616†	-312.7	83.7	-0.0009 mg/L	-0.0009 mg/L	18:43:22
1	Cr 267.716†	9018.5	7174.4	0.0461 mg/L	0.0461 mg/L	18:43:01
1	Cu 324.752†	24485.3	22807.7	0.1263 mg/L	0.1263 mg/L	18:43:01
1	Fe 238.204†	264459.6	261086.7	2.062 mg/L	2.062 mg/L	18:43:01
1	Fe 234.349†	86205.4	85201.9	2.075 mg/L	2.075 mg/L	18:43:01
1	Mg 279.077†	99869.0	98962.9	4.495 mg/L	4.495 mg/L	18:43:01
1	Mn 257.610†	927229.1	917998.6	0.9193 mg/L	0.9193 mg/L	18:42:56
1	Mo 202.031†	22.7	14.5	-0.0004 mg/L	-0.0004 mg/L	18:43:22
1	Na 330.237†	19769.0	18431.8	39.24 mg/L	39.24 mg/L	18:43:01
1	Ni 231.604†	728.2	359.9	0.0044 mg/L	0.0044 mg/L	18:43:22
1	Pb 220.353†	176.1	295.4	0.0309 mg/L	0.0309 mg/L	18:43:22
1	Sb 206.836†	85.3	4.7	0.0010 mg/L	0.0010 mg/L	18:43:22
1	Se 196.026†	-2.8	5.7	0.0061 mg/L	0.0061 mg/L	18:43:22
1	Sn 189.927†	168.7	91.5	0.0221 mg/L	0.0221 mg/L	18:43:22
1	Ti 337.279†	21591.9	20465.2	0.0264 mg/L	0.0264 mg/L	18:43:01
1	Tl 190.801†	-33.1	-21.1	0.0104 mg/L	0.0104 mg/L	18:43:22
1	V 292.402†	3307.7	817.9	0.0033 mg/L	0.0033 mg/L	18:43:01
1	Zn 213.857†	14768.5	13679.3	0.1462 mg/L	0.1462 mg/L	18:43:01
2	Y 360.073	2472278.8	2472278.8			18:43:28
2	Ag 328.068†	1082.8	1754.4	0.0054 mg/L	0.0054 mg/L	18:43:33
2	Al 237.313†	4367.8	4638.6	0.4948 mg/L	0.4948 mg/L	18:43:53
2	As 188.979†	3.3	2.4	0.0014 mg/L	0.0014 mg/L	18:43:53
2	B 182.528†	41.6	74.8	0.0599 mg/L	0.0599 mg/L	18:43:53
2	Ba 233.527†	7536.9	7610.8	0.0405 mg/L	0.0405 mg/L	18:43:53
2	Be 313.107†	5198.2	11.6	-0.0001 mg/L	-0.0001 mg/L	18:43:33
2	Ca 315.886†	4094666.2	4047463.4	27.25 mg/L	27.25 mg/L	18:43:28
2	Cd 228.802†	388.9	-7.0	0.0001 mg/L	0.0001 mg/L	18:43:53
2	Co 228.616†	-291.3	105.4	-0.0006 mg/L	-0.0006 mg/L	18:43:53
2	Cr 267.716†	9058.6	7198.5	0.0463 mg/L	0.0463 mg/L	18:43:33
2	Cu 324.752†	24466.8	22746.9	0.1259 mg/L	0.1259 mg/L	18:43:33
2	Fe 238.204†	266001.3	262153.2	2.071 mg/L	2.071 mg/L	18:43:33
2	Fe 234.349†	86697.7	85539.4	2.083 mg/L	2.083 mg/L	18:43:33
2	Mg 279.077†	100522.0	99435.7	4.516 mg/L	4.516 mg/L	18:43:33
2	Mn 257.610†	927384.6	916544.7	0.9179 mg/L	0.9179 mg/L	18:43:28
2	Mo 202.031†	20.3	12.1	-0.0006 mg/L	-0.0006 mg/L	18:43:53
2	Na 330.237†	19981.7	18607.9	39.61 mg/L	39.61 mg/L	18:43:33
2	Ni 231.604†	760.2	390.2	0.0049 mg/L	0.0049 mg/L	18:43:53
2	Pb 220.353†	174.8	293.8	0.0307 mg/L	0.0307 mg/L	18:43:53

2	Sb 206.836†	72.9	-7.8	-0.0024 mg/L	-0.0024 mg/L	18:43:53
2	Se 196.026†	0.7	9.2	0.0110 mg/L	0.0110 mg/L	18:43:53
2	Sn 189.927†	163.6	86.1	0.0204 mg/L	0.0204 mg/L	18:43:53
2	Ti 337.279†	21511.8	20348.5	0.0263 mg/L	0.0263 mg/L	18:43:33
2	Tl 190.801†	-25.9	-13.9	0.0169 mg/L	0.0169 mg/L	18:43:53
2	V 292.402†	3438.4	941.5	0.0038 mg/L	0.0038 mg/L	18:43:33
2	Zn 213.857†	14782.2	13667.2	0.1460 mg/L	0.1460 mg/L	18:43:33

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Mean Data: 0606346-09

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2470116.1						3058.57	0.12%
Ag 328.068†	1790.0	0.0055 mg/L	mg/L	0.00015	0.0055 mg/L	mg/L	0.00015	2.70%
Al 237.313†	4657.0	0.4969 mg/L	mg/L	0.00296	0.4969 mg/L	mg/L	0.00296	0.60%
As 188.979†	2.5	0.0015 mg/L	mg/L	0.00022	0.0015 mg/L	mg/L	0.00022	14.18%
B 182.528†	72.2	0.0578 mg/L	mg/L	0.00294	0.0578 mg/L	mg/L	0.00294	5.09%
Ba 233.527†	7616.6	0.0406 mg/L	mg/L	0.00005	0.0406 mg/L	mg/L	0.00005	0.11%
Be 313.107†	23.1	-0.0001 mg/L	mg/L	0.00000	-0.0001 mg/L	mg/L	0.00000	2.56%
Ca 315.886†	4050081.3	27.26 mg/L	mg/L	0.025	27.26 mg/L	mg/L	0.025	0.09%
Cd 228.802†	-9.3	0.0001 mg/L	mg/L	0.00004	0.0001 mg/L	mg/L	0.00004	59.37%
Co 228.616†	94.5	-0.0007 mg/L	mg/L	0.00022	-0.0007 mg/L	mg/L	0.00022	29.78%
Cr 267.716†	7186.5	0.0462 mg/L	mg/L	0.00011	0.0462 mg/L	mg/L	0.00011	0.25%
Cu 324.752†	22777.3	0.1261 mg/L	mg/L	0.00024	0.1261 mg/L	mg/L	0.00024	0.19%
Fe 238.204†	261619.9	2.067 mg/L	mg/L	0.0060	2.067 mg/L	mg/L	0.0060	0.29%
Fe 234.349†	85370.7	2.079 mg/L	mg/L	0.0058	2.079 mg/L	mg/L	0.0058	0.28%
Mg 279.077†	99199.3	4.506 mg/L	mg/L	0.0152	4.506 mg/L	mg/L	0.0152	0.34%
Mn 257.610†	917271.6	0.9186 mg/L	mg/L	0.00103	0.9186 mg/L	mg/L	0.00103	0.11%
Mo 202.031†	13.3	-0.0005 mg/L	mg/L	0.00013	-0.0005 mg/L	mg/L	0.00013	25.10%
Na 330.237†	18519.9	39.43 mg/L	mg/L	0.261	39.43 mg/L	mg/L	0.261	0.66%
Ni 231.604†	375.0	0.0046 mg/L	mg/L	0.00038	0.0046 mg/L	mg/L	0.00038	8.16%
Pb 220.353†	294.6	0.0308 mg/L	mg/L	0.00013	0.0308 mg/L	mg/L	0.00013	0.42%
Sb 206.836†	-1.6	-0.0007 mg/L	mg/L	0.00242	-0.0007 mg/L	mg/L	0.00242	338.10%
Se 196.026†	7.4	0.0086 mg/L	mg/L	0.00342	0.0086 mg/L	mg/L	0.00342	40.01%
Sn 189.927†	88.8	0.0212 mg/L	mg/L	0.00119	0.0212 mg/L	mg/L	0.00119	5.61%
Ti 337.279†	20406.9	0.0263 mg/L	mg/L	0.00011	0.0263 mg/L	mg/L	0.00011	0.42%
Tl 190.801†	-17.5	0.0136 mg/L	mg/L	0.00465	0.0136 mg/L	mg/L	0.00465	34.04%
V 292.402†	879.7	0.0036 mg/L	mg/L	0.00036	0.0036 mg/L	mg/L	0.00036	10.01%
Zn 213.857†	13673.2	0.1461 mg/L	mg/L	0.00009	0.1461 mg/L	mg/L	0.00009	0.06%

Sequence No.: 40

Sample ID: 0606346-10

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 34

Date Collected: 6/22/2006 6:45:30 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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Replicate Data: 0606346-10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2460579.3	2460579.3					18:47:01
1	Ag 328.068†	-214.8	469.8	0.0016 mg/L	mg/L	0.0016 mg/L	mg/L	18:47:07
1	Al 237.313†	1491.1	1800.0	0.1853 mg/L	mg/L	0.1853 mg/L	mg/L	18:47:27
1	As 188.979†	4.3	-3.4	0.0022 mg/L	mg/L	0.0022 mg/L	mg/L	18:47:27
1	B 182.528†	41.5	74.9	0.0600 mg/L	mg/L	0.0600 mg/L	mg/L	18:47:27
1	Ba 233.527†	7396.3	7506.5	0.0400 mg/L	mg/L	0.0400 mg/L	mg/L	18:47:07
1	Be 313.107†	4991.7	-169.2	-0.0001 mg/L	mg/L	-0.0001 mg/L	mg/L	18:47:07
1	Ca 315.886†	4124805.1	4096679.0	27.58 mg/L	mg/L	27.58 mg/L	mg/L	18:47:01
1	Cd 228.802†	380.5	-13.6	0.0000 mg/L	mg/L	0.0000 mg/L	mg/L	18:47:27
1	Co 228.616†	-323.4	72.1	-0.0010 mg/L	mg/L	-0.0010 mg/L	mg/L	18:47:27
1	Cr 267.716†	4182.6	2394.6	0.0144 mg/L	mg/L	0.0144 mg/L	mg/L	18:47:07
1	Cu 324.752†	5664.7	4174.1	0.0230 mg/L	mg/L	0.0230 mg/L	mg/L	18:47:07
1	Fe 238.204†	134131.0	132334.4	1.042 mg/L	mg/L	1.042 mg/L	mg/L	18:47:07
1	Fe 234.349†	43732.1	43242.3	1.051 mg/L	mg/L	1.051 mg/L	mg/L	18:47:07
1	Mg 279.077†	94937.7	94358.1	4.288 mg/L	mg/L	4.288 mg/L	mg/L	18:47:07
1	Mn 257.610†	981463.4	974657.3	0.9762 mg/L	mg/L	0.9762 mg/L	mg/L	18:47:01
1	Mo 202.031†	7.6	-0.4	-0.0016 mg/L	mg/L	-0.0016 mg/L	mg/L	18:47:27
1	Na 330.237†	18920.4	17647.1	37.60 mg/L	mg/L	37.60 mg/L	mg/L	18:47:07
1	Ni 231.604†	534.3	169.3	0.0010 mg/L	mg/L	0.0010 mg/L	mg/L	18:47:27
1	Pb 220.353†	-2.4	118.5	0.0114 mg/L	mg/L	0.0114 mg/L	mg/L	18:47:27

1	Sb 206.836†	82.9	2.5	0.0008 mg/L	0.0008 mg/L	18:47:27
1	Se 196.026†	-1.1	7.3	0.0084 mg/L	0.0084 mg/L	18:47:27
1	Sn 189.927†	148.9	72.3	0.0160 mg/L	0.0160 mg/L	18:47:27
1	Ti 337.279†	8673.1	7688.9	0.0094 mg/L	0.0094 mg/L	18:47:07
1	Tl 190.801†	-23.2	-11.4	0.0200 mg/L	0.0200 mg/L	18:47:27
1	V 292.402†	3072.4	593.9	0.0022 mg/L	0.0022 mg/L	18:47:07
1	Zn 213.857†	5473.3	4484.4	0.0475 mg/L	0.0475 mg/L	18:47:07
2	Y 360.073	2464063.1	2464063.1			18:47:33
2	Ag 328.068†	-122.2	562.0	0.0019 mg/L	0.0019 mg/L	18:47:38
2	Al 237.313†	1486.5	1793.3	0.1845 mg/L	0.1845 mg/L	18:47:58
2	As 188.979†	5.2	4.2	0.0028 mg/L	0.0028 mg/L	18:47:58
2	B 182.528†	46.1	79.4	0.0636 mg/L	0.0636 mg/L	18:47:58
2	Ba 233.527†	7364.7	7464.8	0.0397 mg/L	0.0397 mg/L	18:47:38
2	Be 313.107†	5094.0	-74.7	-0.0001 mg/L	-0.0001 mg/L	18:47:38
2	Ca 315.886†	4132338.8	4098360.0	27.59 mg/L	27.59 mg/L	18:47:33
2	Cd 228.802†	407.2	12.4	0.0003 mg/L	0.0003 mg/L	18:47:58
2	Co 228.616†	-330.2	65.8	-0.0011 mg/L	-0.0011 mg/L	18:47:58
2	Cr 267.716†	4180.3	2386.5	0.0144 mg/L	0.0144 mg/L	18:47:38
2	Cu 324.752†	5719.7	4220.6	0.0232 mg/L	0.0232 mg/L	18:47:38
2	Fe 238.204†	134932.4	132941.4	1.046 mg/L	1.046 mg/L	18:47:38
2	Fe 234.349†	44018.2	43464.9	1.056 mg/L	1.056 mg/L	18:47:38
2	Mg 279.077†	95407.9	94691.3	4.303 mg/L	4.303 mg/L	18:47:38
2	Mn 257.610†	982275.5	974084.2	0.9756 mg/L	0.9756 mg/L	18:47:33
2	Mo 202.031†	15.8	7.7	-0.0010 mg/L	-0.0010 mg/L	18:47:58
2	Na 330.237†	19063.8	17762.8	37.85 mg/L	37.85 mg/L	18:47:38
2	Ni 231.604†	533.2	167.4	0.0010 mg/L	0.0010 mg/L	18:47:58
2	Pb 220.353†	-12.3	108.7	0.0103 mg/L	0.0103 mg/L	18:47:58
2	Sb 206.836†	77.3	-3.2	-0.0008 mg/L	-0.0008 mg/L	18:47:58
2	Se 196.026†	-2.1	6.4	0.0071 mg/L	0.0071 mg/L	18:47:58
2	Sn 189.927†	144.2	67.5	0.0145 mg/L	0.0145 mg/L	18:47:58
2	Ti 337.279†	8688.6	7692.2	0.0094 mg/L	0.0094 mg/L	18:47:38
2	Tl 190.801†	-25.0	-13.2	0.0184 mg/L	0.0184 mg/L	18:47:58
2	V 292.402†	2982.5	500.3	0.0018 mg/L	0.0018 mg/L	18:47:38
2	Zn 213.857†	5531.9	4534.9	0.0480 mg/L	0.0480 mg/L	18:47:38

## Mean Data: 0606346-10

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2462321.2						2463.40	0.10%
Ag 328.068†	515.9	0.0017 mg/L		0.00019	0.0017 mg/L		0.00019	11.09%
Al 237.313†	1796.6	0.1849 mg/L		0.00056	0.1849 mg/L		0.00056	0.30%
As 188.979†	3.8	0.0025 mg/L		0.00047	0.0025 mg/L		0.00047	18.92%
B 182.528†	77.2	0.0618 mg/L		0.00259	0.0618 mg/L		0.00259	4.20%
Ba 233.527†	7485.6	0.0398 mg/L		0.00016	0.0398 mg/L		0.00016	0.41%
Be 313.107†	-121.9	-0.0001 mg/L		0.00001	-0.0001 mg/L		0.00001	8.27%
Ca 315.886†	4097519.5	27.58 mg/L		0.008	27.58 mg/L		0.008	0.03%
Cd 228.802†	-0.6	0.0002 mg/L		0.00022	0.0002 mg/L		0.00022	113.12%
Co 228.616†	68.9	-0.0010 mg/L		0.00006	-0.0010 mg/L		0.00006	6.09%
Cr 267.716†	2390.5	0.0144 mg/L		0.00004	0.0144 mg/L		0.00004	0.26%
Cu 324.752†	4197.3	0.0231 mg/L		0.00018	0.0231 mg/L		0.00018	0.79%
Fe 238.204†	132637.9	1.044 mg/L		0.0034	1.044 mg/L		0.0034	0.33%
Fe 234.349†	43353.6	1.053 mg/L		0.0038	1.053 mg/L		0.0038	0.36%
Mg 279.077†	94524.7	4.296 mg/L		0.0107	4.296 mg/L		0.0107	0.25%
Mn 257.610†	974370.7	0.9759 mg/L		0.00041	0.9759 mg/L		0.00041	0.04%
Mo 202.031†	3.6	-0.0013 mg/L		0.00044	-0.0013 mg/L		0.00044	33.14%
Na 330.237†	17704.9	37.72 mg/L		0.171	37.72 mg/L		0.171	0.45%
Ni 231.604†	168.3	0.0010 mg/L		0.00002	0.0010 mg/L		0.00002	2.34%
Pb 220.353†	113.6	0.0108 mg/L		0.00076	0.0108 mg/L		0.00076	7.05%
Sb 206.836†	-0.3	0.0000 mg/L		0.00109	0.0000 mg/L		0.00109	>999.9%
Se 196.026†	6.8	0.0077 mg/L		0.00095	0.0077 mg/L		0.00095	12.31%
Sn 189.927†	69.9	0.0152 mg/L		0.00108	0.0152 mg/L		0.00108	7.07%
Ti 337.279†	7690.5	0.0094 mg/L		0.00000	0.0094 mg/L		0.00000	0.03%
Tl 190.801†	-12.3	0.0192 mg/L		0.00115	0.0192 mg/L		0.00115	6.00%
V 292.402†	547.1	0.0020 mg/L		0.00027	0.0020 mg/L		0.00027	13.57%
Zn 213.857†	4509.6	0.0478 mg/L		0.00038	0.0478 mg/L		0.00038	0.80%

Sequence No.: 41  
Sample ID: 0606346-11  
Analyst:

Autosampler Location: 35  
Date Collected: 6/22/2006 6:49:35 PM  
Data Type: Original

Initial Sample Wt:  
Dilution:

Initial Sample Vol:  
Sample Prep Vol:

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Replicate Data: 0606346-11

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Y 360.073	2456247.0	2456247.0					18:51:07
1	Ag 328.068†	-517.7	167.8	0.0007	mg/L	0.0007	mg/L	18:51:12
1	Al 237.313†	329.2	645.6	0.0604	mg/L	0.0604	mg/L	18:51:32
1	As 188.979†	4.3	3.4	0.0021	mg/L	0.0021	mg/L	18:51:32
1	B 182.528†	41.3	74.8	0.0599	mg/L	0.0599	mg/L	18:51:32
1	Ba 233.527†	6649.8	6776.2	0.0359	mg/L	0.0359	mg/L	18:51:12
1	Be 313.107†	4968.7	-183.3	-0.0001	mg/L	-0.0001	mg/L	18:51:12
1	Ca 315.886†	3928926.2	3908876.7	26.31	mg/L	26.31	mg/L	18:51:07
1	Cd 228.802†	379.9	-13.4	0.0001	mg/L	0.0001	mg/L	18:51:32
1	Co 228.616†	-328.7	66.2	-0.0011	mg/L	-0.0011	mg/L	18:51:32
1	Cr 267.716†	2449.5	676.4	0.0031	mg/L	0.0031	mg/L	18:51:12
1	Cu 324.752†	3451.4	1980.2	0.0108	mg/L	0.0108	mg/L	18:51:12
1	Fe 238.204†	78463.2	77142.1	0.6041	mg/L	0.6041	mg/L	18:51:12
1	Fe 234.349†	25863.6	25527.7	0.6183	mg/L	0.6183	mg/L	18:51:12
1	Mg 279.077†	95026.5	94612.9	4.300	mg/L	4.300	mg/L	18:51:12
1	Mn 257.610†	761187.2	757052.5	0.7576	mg/L	0.7576	mg/L	18:51:07
1	Mo 202.031†	9.7	1.7	-0.0015	mg/L	-0.0015	mg/L	18:51:32
1	Na 330.237†	18921.7	17681.5	37.68	mg/L	37.68	mg/L	18:51:12
1	Ni 231.604†	513.6	149.6	0.0007	mg/L	0.0007	mg/L	18:51:32
1	Pb 220.353†	-42.1	79.0	0.0070	mg/L	0.0070	mg/L	18:51:32
1	Sb 206.836†	71.1	-9.1	-0.0023	mg/L	-0.0023	mg/L	18:51:32
1	Se 196.026†	-3.8	4.7	0.0047	mg/L	0.0047	mg/L	18:51:32
1	Sn 189.927†	142.0	65.7	0.0139	mg/L	0.0139	mg/L	18:51:32
1	Ti 337.279†	3514.7	2568.0	0.0026	mg/L	0.0026	mg/L	18:51:12
1	Tl 190.801†	-19.8	-8.0	0.0200	mg/L	0.0200	mg/L	18:51:32
1	V 292.402†	2792.1	320.2	0.0010	mg/L	0.0010	mg/L	18:51:12
1	Zn 213.857†	3971.2	2998.4	0.0315	mg/L	0.0315	mg/L	18:51:32
2	Y 360.073	2473432.5	2473432.5					18:51:39
2	Ag 328.068†	-437.2	251.0	0.0010	mg/L	0.0010	mg/L	18:51:44
2	Al 237.313†	340.7	654.8	0.0614	mg/L	0.0614	mg/L	18:52:04
2	As 188.979†	6.6	5.5	0.0039	mg/L	0.0039	mg/L	18:52:04
2	B 182.528†	38.9	72.1	0.0577	mg/L	0.0577	mg/L	18:52:04
2	Ba 233.527†	6664.1	6744.3	0.0358	mg/L	0.0358	mg/L	18:51:44
2	Be 313.107†	5064.2	-123.3	-0.0001	mg/L	-0.0001	mg/L	18:51:44
2	Ca 315.886†	3952725.7	3905228.2	26.29	mg/L	26.29	mg/L	18:51:39
2	Cd 228.802†	391.0	-5.1	0.0001	mg/L	0.0001	mg/L	18:52:04
2	Co 228.616†	-335.1	62.2	-0.0011	mg/L	-0.0011	mg/L	18:52:04
2	Cr 267.716†	2412.7	623.0	0.0027	mg/L	0.0027	mg/L	18:51:44
2	Cu 324.752†	3524.3	2028.4	0.0111	mg/L	0.0111	mg/L	18:51:44
2	Fe 238.204†	79192.2	77320.0	0.6056	mg/L	0.6056	mg/L	18:51:44
2	Fe 234.349†	26069.5	25552.4	0.6189	mg/L	0.6189	mg/L	18:51:44
2	Mg 279.077†	95840.4	94760.3	4.306	mg/L	4.306	mg/L	18:51:44
2	Mn 257.610†	765288.0	755841.3	0.7564	mg/L	0.7564	mg/L	18:51:39
2	Mo 202.031†	12.8	4.7	-0.0013	mg/L	-0.0013	mg/L	18:52:04
2	Na 330.237†	19200.3	17826.0	37.98	mg/L	37.98	mg/L	18:51:44
2	Ni 231.604†	474.8	107.7	-0.0001	mg/L	-0.0001	mg/L	18:52:04
2	Pb 220.353†	-44.9	76.5	0.0068	mg/L	0.0068	mg/L	18:52:04
2	Sb 206.836†	73.4	-7.4	-0.0018	mg/L	-0.0018	mg/L	18:52:04
2	Se 196.026†	-2.1	6.4	0.0071	mg/L	0.0071	mg/L	18:52:04
2	Sn 189.927†	129.4	52.3	0.0096	mg/L	0.0096	mg/L	18:52:04
2	Ti 337.279†	3688.0	2715.0	0.0028	mg/L	0.0028	mg/L	18:51:44
2	Tl 190.801†	-14.8	-3.0	0.0246	mg/L	0.0246	mg/L	18:52:04
2	V 292.402†	2831.1	339.4	0.0011	mg/L	0.0011	mg/L	18:51:44
2	Zn 213.857†	3978.3	2977.9	0.0313	mg/L	0.0313	mg/L	18:52:04

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Mean Data: 0606346-11

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2464839.7				12152.02	0.49%
Ag 328.068†	209.4	0.0008 mg/L	0.00017	0.0008 mg/L	0.00017	20.93%
Al 237.313†	650.2	0.0609 mg/L	0.00072	0.0609 mg/L	0.00072	1.17%
As 188.979†	4.5	0.0030 mg/L	0.00128	0.0030 mg/L	0.00128	41.85%
B 182.528†	73.4	0.0588 mg/L	0.00157	0.0588 mg/L	0.00157	2.66%

Ba	233.527†	6760.3	0.0358 mg/L	0.00012	0.0358 mg/L	0.00012	0.35%
Be	313.107†	-153.3	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	4.96%
Ca	315.886†	3907052.5	26.30 mg/L	0.017	26.30 mg/L	0.017	0.07%
Cd	228.802†	-9.3	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	67.87%
Co	228.616†	64.2	-0.0011 mg/L	0.00004	-0.0011 mg/L	0.00004	3.73%
Cr	267.716†	649.7	0.0029 mg/L	0.00025	0.0029 mg/L	0.00025	8.54%
Cu	324.752†	2004.3	0.0109 mg/L	0.00019	0.0109 mg/L	0.00019	1.73%
Fe	238.204†	77231.0	0.6049 mg/L	0.00100	0.6049 mg/L	0.00100	0.16%
Fe	234.349†	25540.0	0.6186 mg/L	0.00043	0.6186 mg/L	0.00043	0.07%
Mg	279.077†	94686.6	4.303 mg/L	0.0047	4.303 mg/L	0.0047	0.11%
Mn	257.610†	756446.9	0.7570 mg/L	0.00086	0.7570 mg/L	0.00086	0.11%
Mo	202.031†	3.2	-0.0014 mg/L	0.00016	-0.0014 mg/L	0.00016	11.64%
Na	330.237†	17753.8	37.83 mg/L	0.214	37.83 mg/L	0.214	0.57%
Ni	231.604†	128.7	0.0003 mg/L	0.00052	0.0003 mg/L	0.00052	181.02%
Pb	220.353†	77.8	0.0069 mg/L	0.00019	0.0069 mg/L	0.00019	2.74%
Sb	206.836†	-8.3	-0.0020 mg/L	0.00035	-0.0020 mg/L	0.00035	17.34%
Se	196.026†	5.5	0.0059 mg/L	0.00168	0.0059 mg/L	0.00168	28.52%
Sn	189.927†	59.0	0.0118 mg/L	0.00300	0.0118 mg/L	0.00300	25.50%
Ti	337.279†	2641.5	0.0027 mg/L	0.00014	0.0027 mg/L	0.00014	5.08%
Tl	190.801†	-5.5	0.0223 mg/L	0.00324	0.0223 mg/L	0.00324	14.52%
V	292.402†	329.8	0.0010 mg/L	0.00005	0.0010 mg/L	0.00005	5.22%
Zn	213.857†	2988.1	0.0314 mg/L	0.00015	0.0314 mg/L	0.00015	0.48%

Sequence No.: 42  
 Sample ID: BF62206-DUP2  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 36  
 Date Collected: 6/22/2006 6:53:40 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: BF62206-DUP2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2504694.8	2504694.8					18:55:12
1	Ag 328.068†	-365.0	327.0	0.0012	mg/L	0.0012	mg/L	18:55:18
1	Al 237.313†	389.2	697.9	0.0664	mg/L	0.0664	mg/L	18:55:38
1	As 188.979†	5.2	4.1	0.0027	mg/L	0.0027	mg/L	18:55:38
1	B 182.528†	41.3	74.0	0.0592	mg/L	0.0592	mg/L	18:55:38
1	Ba 233.527†	6569.7	6569.9	0.0348	mg/L	0.0348	mg/L	18:55:38
1	Be 313.107†	5102.6	-148.4	-0.0001	mg/L	-0.0001	mg/L	18:55:18
1	Ca 315.886†	3970836.1	3874130.0	26.08	mg/L	26.08	mg/L	18:55:12
1	Cd 228.802†	384.3	-16.5	0.0000	mg/L	0.0000	mg/L	18:55:38
1	Co 228.616†	-361.3	40.7	-0.0014	mg/L	-0.0014	mg/L	18:55:38
1	Cr 267.716†	2263.4	447.5	0.0016	mg/L	0.0016	mg/L	18:55:38
1	Cu 324.752†	3424.4	1887.4	0.0103	mg/L	0.0103	mg/L	18:55:18
1	Fe 238.204†	78271.2	75443.4	0.5907	mg/L	0.5907	mg/L	18:55:18
1	Fe 234.349†	25733.6	24902.6	0.6030	mg/L	0.6030	mg/L	18:55:18
1	Mg 279.077†	96603.2	94322.3	4.286	mg/L	4.286	mg/L	18:55:18
1	Mn 257.610†	769489.5	750499.1	0.7511	mg/L	0.7511	mg/L	18:55:12
1	Mo 202.031†	34.0	25.2	0.0003	mg/L	0.0003	mg/L	18:55:38
1	Na 330.237†	19380.3	17764.9	37.85	mg/L	37.85	mg/L	18:55:18
1	Ni 231.604†	487.7	114.4	0.0000	mg/L	0.0000	mg/L	18:55:38
1	Pb 220.353†	-51.8	70.3	0.0061	mg/L	0.0061	mg/L	18:55:38
1	Sb 206.836†	80.9	-0.9	0.0000	mg/L	0.0000	mg/L	18:55:38
1	Se 196.026†	0.5	9.0	0.0107	mg/L	0.0107	mg/L	18:55:38
1	Sn 189.927†	133.9	55.1	0.0105	mg/L	0.0105	mg/L	18:55:38
1	Ti 337.279†	3680.8	2662.4	0.0027	mg/L	0.0027	mg/L	18:55:18
1	Tl 190.801†	-22.5	-10.3	0.0178	mg/L	0.0178	mg/L	18:55:38
1	V 292.402†	2849.5	322.5	0.0010	mg/L	0.0010	mg/L	18:55:18
1	Zn 213.857†	4354.3	3295.9	0.0347	mg/L	0.0347	mg/L	18:55:38
2	Y 360.073	2471996.0	2471996.0					18:55:44
2	Ag 328.068†	-403.1	284.5	0.0011	mg/L	0.0011	mg/L	18:55:50
2	Al 237.313†	341.2	655.5	0.0615	mg/L	0.0615	mg/L	18:56:10
2	As 188.979†	2.5	1.5	0.0006	mg/L	0.0006	mg/L	18:56:10
2	B 182.528†	52.2	85.3	0.0684	mg/L	0.0684	mg/L	18:56:10
2	Ba 233.527†	6564.7	6649.8	0.0352	mg/L	0.0352	mg/L	18:56:10
2	Be 313.107†	5018.5	-165.7	-0.0001	mg/L	-0.0001	mg/L	18:55:50
2	Ca 315.886†	3940107.1	3895015.4	26.22	mg/L	26.22	mg/L	18:55:44
2	Cd 228.802†	391.8	-4.1	0.0002	mg/L	0.0002	mg/L	18:56:10
2	Co 228.616†	-362.3	35.1	-0.0015	mg/L	-0.0015	mg/L	18:56:10

2	Cr 267.716†	2283.5	496.6	0.0019 mg/L	0.0019 mg/L	18:56:10
2	Cu 324.752†	3509.2	2015.5	0.0110 mg/L	0.0110 mg/L	18:55:50
2	Fe 238.204†	78680.0	76858.8	0.6019 mg/L	0.6019 mg/L	18:55:50
2	Fe 234.349†	25908.8	25408.3	0.6154 mg/L	0.6154 mg/L	18:55:50
2	Mg 279.077†	97137.9	96099.0	4.367 mg/L	4.367 mg/L	18:55:50
2	Mn 257.610†	762988.5	754006.0	0.7546 mg/L	0.7546 mg/L	18:55:44
2	Mo 202.031†	4.1	-3.9	-0.0019 mg/L	-0.0019 mg/L	18:56:10
2	Na 330.237†	19605.9	18238.3	38.84 mg/L	38.84 mg/L	18:55:50
2	Ni 231.604†	480.5	113.6	0.0000 mg/L	0.0000 mg/L	18:56:10
2	Pb 220.353†	-51.0	70.5	0.0061 mg/L	0.0061 mg/L	18:56:10
2	Sb 206.836†	74.8	-5.9	-0.0013 mg/L	-0.0013 mg/L	18:56:10
2	Se 196.026†	-4.3	4.2	0.0040 mg/L	0.0040 mg/L	18:56:10
2	Sn 189.927†	131.1	54.1	0.0102 mg/L	0.0102 mg/L	18:56:10
2	Ti 337.279†	3674.2	2703.5	0.0028 mg/L	0.0028 mg/L	18:55:50
2	Tl 190.801†	-25.7	-13.8	0.0147 mg/L	0.0147 mg/L	18:56:10
2	V 292.402†	2835.1	345.0	0.0011 mg/L	0.0011 mg/L	18:55:50
2	Zn 213.857†	4343.3	3341.3	0.0352 mg/L	0.0352 mg/L	18:56:10

## Mean Data: BF62206-DUP2

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2488345.4						23121.59	0.93%
Ag 328.068†	305.7	0.0011	mg/L	0.00009	0.0011	mg/L	0.00009	7.94%
Al 237.313†	676.7	0.0640	mg/L	0.00347	0.0640	mg/L	0.00347	5.43%
As 188.979†	2.8	0.0017	mg/L	0.00152	0.0017	mg/L	0.00152	91.36%
B 182.528†	79.6	0.0638	mg/L	0.00646	0.0638	mg/L	0.00646	10.12%
Ba 233.527†	6609.8	0.0350	mg/L	0.00031	0.0350	mg/L	0.00031	0.89%
Be 313.107†	-157.0	-0.0001	mg/L	0.00000	-0.0001	mg/L	0.00000	1.40%
Ca 315.886†	3884572.7	26.15	mg/L	0.099	26.15	mg/L	0.099	0.38%
Cd 228.802†	-10.3	0.0001	mg/L	0.00011	0.0001	mg/L	0.00011	120.10%
Co 228.616†	37.9	-0.0015	mg/L	0.00006	-0.0015	mg/L	0.00006	3.84%
Cr 267.716†	472.1	0.0017	mg/L	0.00023	0.0017	mg/L	0.00023	13.15%
Cu 324.752†	1951.4	0.0106	mg/L	0.00050	0.0106	mg/L	0.00050	4.72%
Fe 238.204†	76151.1	0.5963	mg/L	0.00793	0.5963	mg/L	0.00793	1.33%
Fe 234.349†	25155.5	0.6092	mg/L	0.00873	0.6092	mg/L	0.00873	1.43%
Mg 279.077†	95210.6	4.327	mg/L	0.0571	4.327	mg/L	0.0571	1.32%
Mn 257.610†	752252.5	0.7528	mg/L	0.00249	0.7528	mg/L	0.00249	0.33%
Mo 202.031†	10.6	-0.0008	mg/L	0.00157	-0.0008	mg/L	0.00157	192.37%
Na 330.237†	18001.6	38.34	mg/L	0.701	38.34	mg/L	0.701	1.83%
Ni 231.604†	114.0	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	33.81%
Pb 220.353†	70.4	0.0061	mg/L	0.00001	0.0061	mg/L	0.00001	0.18%
Sb 206.836†	-3.4	-0.0007	mg/L	0.00097	-0.0007	mg/L	0.00097	147.19%
Se 196.026†	6.6	0.0074	mg/L	0.00475	0.0074	mg/L	0.00475	64.54%
Sn 189.927†	54.6	0.0104	mg/L	0.00022	0.0104	mg/L	0.00022	2.16%
Ti 337.279†	2683.0	0.0028	mg/L	0.00004	0.0028	mg/L	0.00004	1.39%
Tl 190.801†	-12.0	0.0163	mg/L	0.00222	0.0163	mg/L	0.00222	13.63%
V 292.402†	333.7	0.0010	mg/L	0.00007	0.0010	mg/L	0.00007	6.47%
Zn 213.857†	3318.6	0.0350	mg/L	0.00034	0.0350	mg/L	0.00034	0.98%

## Duplicate Check: BF62206-DUP2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.0008	0.0011	0.000	mg/L	29.3
Al 237.313	0.0609	0.0640	0.003	mg/L	4.8
As 188.979	0.0030	0.0017	0.002	mg/L	58.7
B 182.528	0.0588	0.0638	0.006	mg/L	8.2
Ba 233.527	0.0358	0.0350	0.000	mg/L	2.3
Be 313.107	-0.0001	-0.0001	0.000	mg/L	-0.5
Ca 315.886	26.30	26.15	0.099	mg/L	0.6
Cd 228.802	0.0001	0.0001	0.000	mg/L	8.0
Co 228.616	-0.0011	-0.0015	0.000	mg/L	-29.0
Cr 267.716	0.0029	0.0017	0.000	mg/L	50.4
Cu 324.752	0.0109	0.0106	0.001	mg/L	2.7
Fe 238.204	0.6049	0.5963	0.008	mg/L	1.4
Fe 234.349	0.6186	0.6092	0.009	mg/L	1.5
Mg 279.077	4.303	4.327	0.057	mg/L	0.6
Mn 257.610	0.7570	0.7528	0.002	mg/L	0.6
Mo 202.031	-0.0014	-0.0008	0.002	mg/L	-51.4



Na 330.237	37.83	38.34	0.701	mg/L	1.4
Ni 231.604	0.0003	0.0000	0.000	mg/L	161.7
Pb 220.353	0.0069	0.0061	0.000	mg/L	12.5
Sb 206.836	-0.0020	-0.0007	0.001	mg/L	-101.4
Se 196.026	0.0059	0.0074	0.005	mg/L	22.3
Sn 189.927	0.0118	0.0104	0.000	mg/L	12.6
Ti 337.279	0.0027	0.0028	0.000	mg/L	2.0
Tl 190.801	0.0223	0.0163	0.002	mg/L	31.3
V 292.402	0.0010	0.0010	0.000	mg/L	0.7
Zn 213.857	0.0314	0.0350	0.000	mg/L	10.7

Sequence No.: 43

Autosampler Location: 37

Sample ID: BF62206-MS2

Date Collected: 6/22/2006 6:57:46 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

## Replicate Data: BF62206-MS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2473958.4	2473958.4			18:59:20
1	Ag 328.068†	88780.6	88447.8	0.2634 mg/L	0.2634 mg/L	18:59:25
1	Al 237.313†	23832.0	23877.2	2.630 mg/L	2.630 mg/L	18:59:25
1	As 188.979†	630.0	621.8	0.5205 mg/L	0.5205 mg/L	18:59:46
1	B 182.528†	689.4	715.1	0.5770 mg/L	0.5770 mg/L	18:59:46
1	Ba 233.527†	99877.3	98889.4	0.5430 mg/L	0.5430 mg/L	18:59:25
1	Be 313.107†	345348.1	336265.2	0.0534 mg/L	0.0534 mg/L	18:59:20
1	Ca 315.886†	4655778.6	4599404.4	30.96 mg/L	30.96 mg/L	18:59:20
1	Cd 228.802†	22260.2	21613.7	0.2576 mg/L	0.2576 mg/L	18:59:25
1	Co 228.616†	36486.1	36462.1	0.5105 mg/L	0.5105 mg/L	18:59:25
1	Cr 267.716†	82313.7	79609.1	0.5258 mg/L	0.5258 mg/L	18:59:25
1	Cu 324.752†	98549.1	95965.0	0.5320 mg/L	0.5320 mg/L	18:59:25
1	Fe 238.204†	413748.8	408031.3	3.228 mg/L	3.228 mg/L	18:59:20
1	Fe 234.349†	132632.0	130889.8	3.186 mg/L	3.186 mg/L	18:59:25
1	Mg 279.077†	206294.5	203930.2	9.264 mg/L	9.264 mg/L	18:59:25
1	Mn 257.610†	1262537.3	1247239.0	1.250 mg/L	1.250 mg/L	18:59:20
1	Mo 202.031†	6910.7	6823.6	0.5206 mg/L	0.5206 mg/L	18:59:46
1	Na 330.237†	32718.1	31185.1	65.94 mg/L	65.94 mg/L	18:59:25
1	Ni 231.604†	30264.1	29556.0	0.5176 mg/L	0.5176 mg/L	18:59:25
1	Pb 220.353†	4606.8	4675.0	0.5154 mg/L	0.5154 mg/L	18:59:46
1	Sb 206.836†	1982.0	1879.4	0.5096 mg/L	0.5096 mg/L	18:59:46
1	Se 196.026†	758.6	758.3	1.059 mg/L	1.059 mg/L	18:59:46
1	Sn 189.927†	1813.7	1717.3	0.5358 mg/L	0.5358 mg/L	18:59:46
1	Ti 337.279†	407393.5	401799.6	0.5333 mg/L	0.5333 mg/L	18:59:20
1	Tl 190.801†	564.6	569.8	0.5470 mg/L	0.5470 mg/L	18:59:46
1	V 292.402†	131457.2	127492.8	0.5232 mg/L	0.5232 mg/L	18:59:25
1	Zn 213.857†	52263.1	50709.3	0.5407 mg/L	0.5407 mg/L	18:59:25
2	Y 360.073	2461067.7	2461067.7			18:59:53
2	Ag 328.068†	88311.5	88441.4	0.2633 mg/L	0.2633 mg/L	18:59:58
2	Al 237.313†	23772.2	23941.1	2.637 mg/L	2.637 mg/L	18:59:58
2	As 188.979†	638.9	633.9	0.5306 mg/L	0.5306 mg/L	19:00:18
2	B 182.528†	706.2	735.4	0.5933 mg/L	0.5933 mg/L	19:00:18
2	Ba 233.527†	99860.7	99390.1	0.5458 mg/L	0.5458 mg/L	18:59:58
2	Be 313.107†	344650.4	337360.0	0.0536 mg/L	0.0536 mg/L	18:59:53
2	Ca 315.886†	4644890.4	4612691.6	31.05 mg/L	31.05 mg/L	18:59:53
2	Cd 228.802†	22161.7	21631.1	0.2578 mg/L	0.2578 mg/L	18:59:58
2	Co 228.616†	36464.2	36629.2	0.5129 mg/L	0.5129 mg/L	18:59:58
2	Cr 267.716†	82110.7	79833.6	0.5273 mg/L	0.5273 mg/L	18:59:58
2	Cu 324.752†	97875.4	95805.8	0.5311 mg/L	0.5311 mg/L	18:59:58
2	Fe 238.204†	412542.7	408975.0	3.236 mg/L	3.236 mg/L	18:59:53
2	Fe 234.349†	132556.5	131501.6	3.201 mg/L	3.201 mg/L	18:59:58
2	Mg 279.077†	206587.8	205289.8	9.326 mg/L	9.326 mg/L	18:59:58
2	Mn 257.610†	1259282.1	1250541.5	1.253 mg/L	1.253 mg/L	18:59:53
2	Mo 202.031†	6970.4	6918.8	0.5279 mg/L	0.5279 mg/L	19:00:18
2	Na 330.237†	32573.5	31210.9	66.00 mg/L	66.00 mg/L	18:59:58
2	Ni 231.604†	30352.3	29800.3	0.5219 mg/L	0.5219 mg/L	18:59:58
2	Pb 220.353†	4636.4	4728.2	0.5213 mg/L	0.5213 mg/L	19:00:18
2	Sb 206.836†	1983.3	1891.0	0.5128 mg/L	0.5128 mg/L	19:00:18
2	Se 196.026†	755.6	759.3	1.061 mg/L	1.061 mg/L	19:00:18

2	Sn 189.927†	1810.0	1723.0	0.5376 mg/L	0.5376 mg/L	19:00:18
2	Ti 337.279†	405700.6	402226.7	0.5338 mg/L	0.5338 mg/L	18:59:53
2	Tl 190.801†	571.4	579.5	0.5559 mg/L	0.5559 mg/L	19:00:18
2	V 292.402†	131003.2	127722.4	0.5241 mg/L	0.5241 mg/L	18:59:58
2	Zn 213.857†	52257.0	50973.8	0.5435 mg/L	0.5435 mg/L	18:59:58

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Mean Data: BF62206-MS2

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.	Units		Conc.	Units		
Y 360.073	2467513.1						9115.09	0.37%
Ag 328.068†	88444.6	0.2633	mg/L	0.00001	0.2633	mg/L	0.00001	0.01%
Al 237.313†	23909.1	2.633	mg/L	0.0049	2.633	mg/L	0.0049	0.19%
As 188.979†	627.9	0.5256	mg/L	0.00713	0.5256	mg/L	0.00713	1.36%
B 182.528†	725.2	0.5852	mg/L	0.01156	0.5852	mg/L	0.01156	1.98%
Ba 233.527†	99139.7	0.5444	mg/L	0.00195	0.5444	mg/L	0.00195	0.36%
Be 313.107†	336812.6	0.0535	mg/L	0.00012	0.0535	mg/L	0.00012	0.23%
Ca 315.886†	4606048.0	31.01	mg/L	0.063	31.01	mg/L	0.063	0.20%
Cd 228.802†	21622.4	0.2577	mg/L	0.00012	0.2577	mg/L	0.00012	0.05%
Co 228.616†	36545.6	0.5117	mg/L	0.00166	0.5117	mg/L	0.00166	0.33%
Cr 267.716†	79721.4	0.5266	mg/L	0.00105	0.5266	mg/L	0.00105	0.20%
Cu 324.752†	95885.4	0.5315	mg/L	0.00062	0.5315	mg/L	0.00062	0.12%
Fe 238.204†	408503.1	3.232	mg/L	0.0053	3.232	mg/L	0.0053	0.16%
Fe 234.349†	131195.7	3.193	mg/L	0.0105	3.193	mg/L	0.0105	0.33%
Mg 279.077†	204610.0	9.295	mg/L	0.0437	9.295	mg/L	0.0437	0.47%
Mn 257.610†	1248890.3	1.252	mg/L	0.0023	1.252	mg/L	0.0023	0.19%
Mo 202.031†	6871.2	0.5243	mg/L	0.00514	0.5243	mg/L	0.00514	0.98%
Na 330.237†	31198.0	65.97	mg/L	0.038	65.97	mg/L	0.038	0.06%
Ni 231.604†	29678.2	0.5198	mg/L	0.00304	0.5198	mg/L	0.00304	0.58%
Pb 220.353†	4701.6	0.5184	mg/L	0.00416	0.5184	mg/L	0.00416	0.80%
Sb 206.836†	1885.2	0.5112	mg/L	0.00222	0.5112	mg/L	0.00222	0.43%
Se 196.026†	758.8	1.060	mg/L	0.0009	1.060	mg/L	0.0009	0.09%
Sn 189.927†	1720.1	0.5367	mg/L	0.00127	0.5367	mg/L	0.00127	0.24%
Ti 337.279†	402013.2	0.5335	mg/L	0.00040	0.5335	mg/L	0.00040	0.08%
Tl 190.801†	574.7	0.5514	mg/L	0.00628	0.5514	mg/L	0.00628	1.14%
V 292.402†	127607.6	0.5236	mg/L	0.00067	0.5236	mg/L	0.00067	0.13%
Zn 213.857†	50841.5	0.5421	mg/L	0.00199	0.5421	mg/L	0.00199	0.37%

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Matrix Recovery Check: BF62206-MS2

Analyte	Expected	Measured	Std.	Units	Recovery (%)
	Conc.	Conc.	Dev.		
Ag 328.068	0.2508	0.2633	0.000	mg/L	105.0
Al 237.313	2.561	2.633	0.005	mg/L	102.9
As 188.979	0.5030	0.5256	0.007	mg/L	104.5
B 182.528	0.5588	0.5852	0.012	mg/L	105.3
Ba 233.527	0.5358	0.5444	0.002	mg/L	101.7
Be 313.107	0.0499	0.0535	0.000	mg/L	107.2
Ca 315.886	31.30	31.01	0.063	mg/L	94.2
Cd 228.802	0.2501	0.2577	0.000	mg/L	103.0
Co 228.616	0.4989	0.5117	0.002	mg/L	102.6
Cr 267.716	0.5029	0.5266	0.001	mg/L	104.7
Cu 324.752	0.5109	0.5315	0.001	mg/L	104.1
Fe 238.204	3.105	3.232	0.005	mg/L	105.1
Fe 234.349	3.119	3.193	0.011	mg/L	103.0
Mg 279.077	9.303	9.295	0.044	mg/L	99.8
Mn 257.610	1.257	1.252	0.002	mg/L	98.9
Mo 202.031	0.4986	0.5243	0.005	mg/L	105.1
Na 330.237	62.83	65.97	0.038	mg/L	112.6
Ni 231.604	0.5003	0.5198	0.003	mg/L	103.9
Pb 220.353	0.5069	0.5184	0.004	mg/L	102.3
Sb 206.836	0.4980	0.5112	0.002	mg/L	102.6
Se 196.026	1.006	1.060	0.001	mg/L	105.4
Sn 189.927	0.5118	0.5367	0.001	mg/L	105.0
Ti 337.279	0.5027	0.5335	0.000	mg/L	106.2
Tl 190.801	0.5223	0.5514	0.006	mg/L	105.8
V 292.402	0.5010	0.5236	0.001	mg/L	104.5
Zn 213.857	0.5314	0.5421	0.002	mg/L	102.1

Sample ID: BF62206-SD2

Date Collected: 6/22/2006 7:01:56 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: BF62206-SD2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2514784.4	2514784.4			19:03:28
1	Ag 328.068†	-652.1	49.1	0.0004 mg/L	0.0004 mg/L	19:03:33
1	Al 237.313†	-157.3	164.9	0.0155 mg/L	0.0155 mg/L	19:03:53
1	As 188.979†	4.4	3.3	0.0021 mg/L	0.0021 mg/L	19:03:53
1	B 182.528†	-20.5	13.7	0.0106 mg/L	0.0106 mg/L	19:03:53
1	Ba 233.527†	1248.4	1369.2	0.0061 mg/L	0.0061 mg/L	19:03:53
1	Be 313.107†	5314.9	38.2	-0.0001 mg/L	-0.0001 mg/L	19:03:33
1	Ca 315.886†	810336.9	784966.5	5.272 mg/L	5.272 mg/L	19:03:28
1	Cd 228.802†	374.3	-27.7	-0.0001 mg/L	-0.0001 mg/L	19:03:53
1	Co 228.616†	-358.4	45.0	-0.0014 mg/L	-0.0014 mg/L	19:03:53
1	Cr 267.716†	1883.9	69.6	-0.0008 mg/L	-0.0008 mg/L	19:03:33
1	Cu 324.752†	1834.6	327.9	0.0016 mg/L	0.0016 mg/L	19:03:33
1	Fe 238.204†	17428.4	15966.8	0.1192 mg/L	0.1192 mg/L	19:03:33
1	Fe 234.349†	5664.0	5284.0	0.1241 mg/L	0.1241 mg/L	19:03:33
1	Mg 279.077†	19761.3	19214.6	0.8713 mg/L	0.8713 mg/L	19:03:33
1	Mn 257.610†	156795.6	151635.5	0.1497 mg/L	0.1497 mg/L	19:03:33
1	Mo 202.031†	19.5	11.0	-0.0008 mg/L	-0.0008 mg/L	19:03:53
1	Na 330.237†	4488.4	3206.4	7.369 mg/L	7.369 mg/L	19:03:33
1	Ni 231.604†	410.0	36.9	-0.0013 mg/L	-0.0013 mg/L	19:03:53
1	Pb 220.353†	-107.8	16.1	0.0001 mg/L	0.0001 mg/L	19:03:53
1	Sb 206.836†	81.1	-1.0	0.0000 mg/L	0.0000 mg/L	19:03:53
1	Se 196.026†	-3.3	5.2	0.0055 mg/L	0.0055 mg/L	19:03:53
1	Sn 189.927†	72.7	-4.9	-0.0084 mg/L	-0.0084 mg/L	19:03:53
1	Ti 337.279†	1600.9	625.4	0.0000 mg/L	0.0000 mg/L	19:03:33
1	Tl 190.801†	-7.3	4.6	0.0230 mg/L	0.0230 mg/L	19:03:53
1	V 292.402†	2432.9	-93.9	-0.0007 mg/L	-0.0007 mg/L	19:03:33
1	Zn 213.857†	1746.5	742.8	0.0073 mg/L	0.0073 mg/L	19:03:53
2	Y 360.073	2513157.7	2513157.7			19:03:59
2	Ag 328.068†	-573.0	125.7	0.0006 mg/L	0.0006 mg/L	19:04:04
2	Al 237.313†	-160.1	162.1	0.0152 mg/L	0.0152 mg/L	19:04:25
2	As 188.979†	0.0	-0.9	-0.0015 mg/L	-0.0015 mg/L	19:04:25
2	B 182.528†	-9.4	24.5	0.0192 mg/L	0.0192 mg/L	19:04:25
2	Ba 233.527†	1234.8	1356.7	0.0061 mg/L	0.0061 mg/L	19:04:25
2	Be 313.107†	5291.2	18.5	-0.0001 mg/L	-0.0001 mg/L	19:04:04
2	Ca 315.886†	813493.6	788548.5	5.296 mg/L	5.296 mg/L	19:03:59
2	Cd 228.802†	381.1	-20.9	0.0000 mg/L	0.0000 mg/L	19:04:25
2	Co 228.616†	-364.4	38.9	-0.0014 mg/L	-0.0014 mg/L	19:04:25
2	Cr 267.716†	1841.6	29.6	-0.0010 mg/L	-0.0010 mg/L	19:04:04
2	Cu 324.752†	1814.5	309.4	0.0015 mg/L	0.0015 mg/L	19:04:04
2	Fe 238.204†	17531.6	16078.1	0.1201 mg/L	0.1201 mg/L	19:04:04
2	Fe 234.349†	5699.0	5321.7	0.1250 mg/L	0.1250 mg/L	19:04:04
2	Mg 279.077†	19829.8	19293.7	0.8749 mg/L	0.8749 mg/L	19:04:04
2	Mn 257.610†	157860.6	152770.5	0.1508 mg/L	0.1508 mg/L	19:04:04
2	Mo 202.031†	20.6	12.1	-0.0007 mg/L	-0.0007 mg/L	19:04:25
2	Na 330.237†	4513.0	3233.2	7.425 mg/L	7.425 mg/L	19:04:04
2	Ni 231.604†	397.3	24.9	-0.0015 mg/L	-0.0015 mg/L	19:04:25
2	Pb 220.353†	-94.4	29.1	0.0015 mg/L	0.0015 mg/L	19:04:25
2	Sb 206.836†	76.0	-5.9	-0.0013 mg/L	-0.0013 mg/L	19:04:25
2	Se 196.026†	-7.4	1.2	-0.0002 mg/L	-0.0002 mg/L	19:04:25
2	Sn 189.927†	70.6	-6.9	-0.0090 mg/L	-0.0090 mg/L	19:04:25
2	Ti 337.279†	1582.2	608.2	0.0000 mg/L	0.0000 mg/L	19:04:04
2	Tl 190.801†	-2.5	9.3	0.0272 mg/L	0.0272 mg/L	19:04:25
2	V 292.402†	2483.1	-43.5	-0.0005 mg/L	-0.0005 mg/L	19:04:04
2	Zn 213.857†	1759.9	757.0	0.0075 mg/L	0.0075 mg/L	19:04:25

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Mean Data: BF62206-SD2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2513971.1				1150.24	0.05%
Ag 328.068†	87.4	0.0005 mg/L	0.00016	0.0005 mg/L	0.00016	34.09%
Al 237.313†	163.5	0.0154 mg/L	0.00023	0.0154 mg/L	0.00023	1.53%

As 188.979†	1.2	0.0003 mg/L	0.00252	0.0003 mg/L	0.00252	840.06%
B 182.528†	19.1	0.0149 mg/L	0.00612	0.0149 mg/L	0.00612	41.06%
Ba 233.527†	1362.9	0.0061 mg/L	0.00005	0.0061 mg/L	0.00005	0.79%
Be 313.107†	28.3	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	2.06%
Ca 315.886†	786757.5	5.284 mg/L	0.0171	5.284 mg/L	0.0171	0.32%
Cd 228.802†	-24.3	-0.0001 mg/L	0.00007	-0.0001 mg/L	0.00007	106.55%
Co 228.616†	42.0	-0.0014 mg/L	0.00006	-0.0014 mg/L	0.00006	4.33%
Cr 267.716†	49.6	-0.0009 mg/L	0.00019	-0.0009 mg/L	0.00019	20.93%
Cu 324.752†	318.7	0.0016 mg/L	0.00007	0.0016 mg/L	0.00007	4.56%
Fe 238.204†	16022.5	0.1196 mg/L	0.00062	0.1196 mg/L	0.00062	0.52%
Fe 234.349†	5302.8	0.1246 mg/L	0.00065	0.1246 mg/L	0.00065	0.52%
Mg 279.077†	19254.1	0.8731 mg/L	0.00254	0.8731 mg/L	0.00254	0.29%
Mn 257.610†	152203.0	0.1502 mg/L	0.00081	0.1502 mg/L	0.00081	0.54%
Mo 202.031†	11.5	-0.0008 mg/L	0.00006	-0.0008 mg/L	0.00006	7.82%
Na 330.237†	3219.8	7.397 mg/L	0.0396	7.397 mg/L	0.0396	0.54%
Ni 231.604†	30.9	-0.0014 mg/L	0.00015	-0.0014 mg/L	0.00015	10.47%
Pb 220.353†	22.6	0.0008 mg/L	0.00101	0.0008 mg/L	0.00101	121.88%
Sb 206.836†	-3.4	-0.0007 mg/L	0.00096	-0.0007 mg/L	0.00096	146.83%
Se 196.026†	3.2	0.0026 mg/L	0.00397	0.0026 mg/L	0.00397	150.05%
Sn 189.927†	-5.9	-0.0087 mg/L	0.00045	-0.0087 mg/L	0.00045	5.13%
Ti 337.279†	616.8	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	60.21%
Tl 190.801†	6.9	0.0251 mg/L	0.00303	0.0251 mg/L	0.00303	12.06%
V 292.402†	-68.7	-0.0006 mg/L	0.00014	-0.0006 mg/L	0.00014	22.83%
Zn 213.857†	749.9	0.0074 mg/L	0.00011	0.0074 mg/L	0.00011	1.47%

Dilution Check: BF62206-SD2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.0002	0.0005	0.000	mg/L	182.7
Al 237.313†	0.0122	0.0154	0.000	mg/L	26.2
As 188.979	0.0006	0.0003	0.003	mg/L	50.9
B 182.528	0.0118	0.0149	0.006	mg/L	26.7
Ba 233.527	0.0072	0.0061	0.000	mg/L	14.8
Be 313.107	0.0000	-0.0001	0.000	mg/L	-299.7
Ca 315.886	5.260	5.284	0.017	mg/L	0.4
Cd 228.802	0.0000	-0.0001	0.000	mg/L	411.9
Co 228.616	-0.0002	-0.0014	0.000	mg/L	-540.4
Cr 267.716	0.0006	-0.0009	0.000	mg/L	253.3
Cu 324.752	0.0022	0.0016	0.000	mg/L	27.5
Fe 238.204	0.1210	0.1196	0.001	mg/L	1.1
Fe 234.349	0.1237	0.1246	0.001	mg/L	0.7
Mg 279.077	0.8606	0.8731	0.003	mg/L	1.5
Mn 257.610	0.1514	0.1502	0.001	mg/L	0.8
Mo 202.031	-0.0003	-0.0008	0.000	mg/L	-183.4
Na 330.237	7.565	7.397	0.040	mg/L	2.2
Ni 231.604	0.0001	-0.0014	0.000	mg/L	2580.6
Pb 220.353	0.0014	0.0008	0.001	mg/L	39.9
Sb 206.836	-0.0004	-0.0007	0.001	mg/L	-61.2
Se 196.026	0.0012	0.0026	0.004	mg/L	124.7
Sn 189.927	0.0024	-0.0087	0.000	mg/L	470.9
Ti 337.279	0.0005	0.0000	0.000	mg/L	95.1
Tl 190.801	0.0045	0.0251	0.003	mg/L	462.5
V 292.402	0.0002	-0.0006	0.000	mg/L	408.4
Zn 213.857	0.0063	0.0074	0.000	mg/L	17.7

Sequence No.: 45

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/22/2006 7:06:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2495454.6	2495454.6			19:07:35
1	Ag 328.068†	84451.1	83448.7	0.2485 mg/L	0.2485 mg/L	19:07:41
1	Al 237.313†	22506.3	22375.0	2.474 mg/L	2.474 mg/L	19:07:41

1	As 188.979†	609.8	596.6	0.4994 mg/L	0.4994 mg/L	19:08:01
1	B 182.528†	599.3	620.9	0.5009 mg/L	0.5009 mg/L	19:08:01
1	Ba 233.527†	92006.3	90324.9	0.4959 mg/L	0.4959 mg/L	19:07:41
1	Be 313.107†	325430.1	313804.0	0.0498 mg/L	0.0498 mg/L	19:07:35
1	Ca 315.886†	761667.3	743372.6	4.992 mg/L	4.992 mg/L	19:07:35
1	Cd 228.802†	21479.5	20659.1	0.2462 mg/L	0.2462 mg/L	19:07:41
1	Co 228.616†	35779.3	35458.6	0.4964 mg/L	0.4964 mg/L	19:07:41
1	Cr 267.716†	78804.1	75468.6	0.4986 mg/L	0.4986 mg/L	19:07:41
1	Cu 324.752†	91053.1	87779.4	0.4866 mg/L	0.4866 mg/L	19:07:41
1	Fe 238.204†	321903.1	313613.4	2.480 mg/L	2.480 mg/L	19:07:41
1	Fe 234.349†	103919.1	101620.6	2.471 mg/L	2.471 mg/L	19:07:41
1	Mg 279.077†	111224.4	109000.9	4.948 mg/L	4.948 mg/L	19:07:41
1	Mn 257.610†	513360.2	502264.2	0.5019 mg/L	0.5019 mg/L	19:07:35
1	Mo 202.031†	6709.0	6567.1	0.5009 mg/L	0.5009 mg/L	19:08:01
1	Na 330.237†	12705.2	11293.0	24.29 mg/L	24.29 mg/L	19:07:41
1	Ni 231.604†	29442.0	28492.6	0.4989 mg/L	0.4989 mg/L	19:07:41
1	Pb 220.353†	4504.9	4535.9	0.5000 mg/L	0.5000 mg/L	19:08:01
1	Sb 206.836†	1931.4	1812.9	0.4917 mg/L	0.4917 mg/L	19:08:01
1	Se 196.026†	725.2	719.2	1.005 mg/L	1.005 mg/L	19:08:01
1	Sn 189.927†	1684.8	1575.5	0.4910 mg/L	0.4910 mg/L	19:08:01
1	Ti 337.279†	386304.5	377662.4	0.5012 mg/L	0.5012 mg/L	19:07:35
1	Tl 190.801†	555.3	555.9	0.5240 mg/L	0.5240 mg/L	19:08:01
1	V 292.402†	126889.0	121896.4	0.5002 mg/L	0.5002 mg/L	19:07:41
1	Zn 213.857†	48058.8	46143.9	0.4917 mg/L	0.4917 mg/L	19:07:41
2	Y 360.073	2492280.2	2492280.2			19:08:08
2	Ag 328.068†	85357.8	84444.0	0.2514 mg/L	0.2514 mg/L	19:08:13
2	Al 237.313†	22641.1	22535.3	2.492 mg/L	2.492 mg/L	19:08:13
2	As 188.979†	616.5	604.0	0.5055 mg/L	0.5055 mg/L	19:08:34
2	B 182.528†	594.7	617.2	0.4979 mg/L	0.4979 mg/L	19:08:34
2	Ba 233.527†	92920.4	91336.8	0.5014 mg/L	0.5014 mg/L	19:08:13
2	Be 313.107†	326520.2	315279.9	0.0500 mg/L	0.0500 mg/L	19:08:08
2	Ca 315.886†	763342.2	745966.9	5.009 mg/L	5.009 mg/L	19:08:08
2	Cd 228.802†	21645.1	20848.3	0.2485 mg/L	0.2485 mg/L	19:08:13
2	Co 228.616†	36119.4	35837.1	0.5018 mg/L	0.5018 mg/L	19:08:13
2	Cr 267.716†	79417.4	76168.8	0.5032 mg/L	0.5032 mg/L	19:08:13
2	Cu 324.752†	92380.1	89195.2	0.4944 mg/L	0.4944 mg/L	19:08:13
2	Fe 238.204†	323634.7	316596.5	2.503 mg/L	2.503 mg/L	19:08:13
2	Fe 234.349†	104823.5	102637.8	2.496 mg/L	2.496 mg/L	19:08:13
2	Mg 279.077†	112091.4	109990.6	4.993 mg/L	4.993 mg/L	19:08:13
2	Mn 257.610†	515049.0	504562.3	0.5042 mg/L	0.5042 mg/L	19:08:08
2	Mo 202.031†	6720.6	6586.9	0.5025 mg/L	0.5025 mg/L	19:08:34
2	Na 330.237†	12845.1	11446.2	24.61 mg/L	24.61 mg/L	19:08:13
2	Ni 231.604†	29621.6	28705.6	0.5026 mg/L	0.5026 mg/L	19:08:13
2	Pb 220.353†	4539.1	4575.0	0.5043 mg/L	0.5043 mg/L	19:08:34
2	Sb 206.836†	1921.2	1805.3	0.4896 mg/L	0.4896 mg/L	19:08:34
2	Se 196.026†	726.9	721.7	1.008 mg/L	1.008 mg/L	19:08:34
2	Sn 189.927†	1689.3	1582.1	0.4931 mg/L	0.4931 mg/L	19:08:34
2	Ti 337.279†	387443.6	379262.4	0.5033 mg/L	0.5033 mg/L	19:08:08
2	Tl 190.801†	567.8	568.9	0.5358 mg/L	0.5358 mg/L	19:08:34
2	V 292.402†	128040.4	123184.6	0.5055 mg/L	0.5055 mg/L	19:08:13
2	Zn 213.857†	48522.1	46658.5	0.4972 mg/L	0.4972 mg/L	19:08:13

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2493867.4				2244.62	0.09%
Ag 328.068†	83946.4	0.2500 mg/L	0.00209	0.2500 mg/L	0.00209	0.84%
QC value within limits for Ag 328.068 Recovery = 99.99%						
Al 237.313†	22455.1	2.483 mg/L	0.0125	2.483 mg/L	0.0125	0.50%
QC value within limits for Al 237.313 Recovery = 99.31%						
As 188.979†	600.3	0.5024 mg/L	0.00434	0.5024 mg/L	0.00434	0.86%
QC value within limits for As 188.979 Recovery = 100.48%						
B 182.528†	619.1	0.4994 mg/L	0.00212	0.4994 mg/L	0.00212	0.42%
QC value within limits for B 182.528 Recovery = 99.89%						
Ba 233.527†	90830.9	0.4986 mg/L	0.00394	0.4986 mg/L	0.00394	0.79%
QC value within limits for Ba 233.527 Recovery = 99.73%						
Be 313.107†	314541.9	0.0499 mg/L	0.00017	0.0499 mg/L	0.00017	0.33%
QC value within limits for Be 313.107 Recovery = 99.86%						
Ca 315.886†	744669.8	5.001 mg/L	0.0124	5.001 mg/L	0.0124	0.25%
QC value within limits for Ca 315.886 Recovery = 100.01%						

Cd 228.802†	20753.7	0.2473 mg/L	0.00159	0.2473 mg/L	0.00159	0.64%
QC value within limits for Cd 228.802			Recovery = 98.94%			
Co 228.616†	35647.9	0.4991 mg/L	0.00377	0.4991 mg/L	0.00377	0.75%
QC value within limits for Co 228.616			Recovery = 99.82%			
Cr 267.716†	75818.7	0.5009 mg/L	0.00328	0.5009 mg/L	0.00328	0.65%
QC value within limits for Cr 267.716			Recovery = 100.18%			
Cu 324.752†	88487.3	0.4905 mg/L	0.00555	0.4905 mg/L	0.00555	1.13%
QC value within limits for Cu 324.752			Recovery = 98.10%			
Fe 238.204†	315105.0	2.491 mg/L	0.0167	2.491 mg/L	0.0167	0.67%
QC value within limits for Fe 238.204			Recovery = 99.66%			
Fe 234.349†	102129.2	2.484 mg/L	0.0175	2.484 mg/L	0.0175	0.71%
QC value within limits for Fe 234.349			Recovery = 99.35%			
Mg 279.077†	109495.7	4.970 mg/L	0.0318	4.970 mg/L	0.0318	0.64%
QC value within limits for Mg 279.077			Recovery = 99.41%			
Mn 257.610†	503413.2	0.5030 mg/L	0.00163	0.5030 mg/L	0.00163	0.32%
QC value within limits for Mn 257.610			Recovery = 100.60%			
Mo 202.031†	6577.0	0.5017 mg/L	0.00107	0.5017 mg/L	0.00107	0.21%
QC value within limits for Mo 202.031			Recovery = 100.34%			
Na 330.237†	11369.6	24.45 mg/L	0.227	24.45 mg/L	0.227	0.93%
QC value within limits for Na 330.237			Recovery = 97.82%			
Ni 231.604†	28599.1	0.5008 mg/L	0.00265	0.5008 mg/L	0.00265	0.53%
QC value within limits for Ni 231.604			Recovery = 100.16%			
Pb 220.353†	4555.5	0.5022 mg/L	0.00305	0.5022 mg/L	0.00305	0.61%
QC value within limits for Pb 220.353			Recovery = 100.44%			
Sb 206.836†	1809.1	0.4906 mg/L	0.00151	0.4906 mg/L	0.00151	0.31%
QC value within limits for Sb 206.836			Recovery = 98.13%			
Se 196.026†	720.4	1.006 mg/L	0.0025	1.006 mg/L	0.0025	0.25%
QC value within limits for Se 196.026			Recovery = 100.63%			
Sn 189.927†	1578.8	0.4920 mg/L	0.00147	0.4920 mg/L	0.00147	0.30%
QC value within limits for Sn 189.927			Recovery = 98.41%			
Ti 337.279†	378462.4	0.5022 mg/L	0.00150	0.5022 mg/L	0.00150	0.30%
QC value within limits for Ti 337.279			Recovery = 100.45%			
Tl 190.801†	562.4	0.5299 mg/L	0.00836	0.5299 mg/L	0.00836	1.58%
QC value within limits for Tl 190.801			Recovery = 105.97%			
V 292.402†	122540.5	0.5028 mg/L	0.00374	0.5028 mg/L	0.00374	0.74%
QC value within limits for V 292.402			Recovery = 100.56%			
Zn 213.857†	46401.2	0.4945 mg/L	0.00389	0.4945 mg/L	0.00389	0.79%
QC value within limits for Zn 213.857			Recovery = 98.90%			

All analyte(s) passed QC.

Sequence No.: 46

Sample ID: ICCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 6/22/2006 7:10:11 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2480513.6	2480513.6					19:11:42
1	Ag 328.068†	-501.1	189.3	0.0008	mg/L	0.0008	mg/L	19:11:47
1	Al 237.313†	-289.9	32.0	0.0030	mg/L	0.0030	mg/L	19:12:08
1	As 188.979†	-0.1	-1.1	-0.0016	mg/L	-0.0016	mg/L	19:12:08
1	B 182.528†	-25.7	8.3	0.0062	mg/L	0.0062	mg/L	19:12:08
1	Ba 233.527†	-146.9	10.2	-0.0013	mg/L	-0.0013	mg/L	19:12:08
1	Be 313.107†	5190.9	-12.7	-0.0001	mg/L	-0.0001	mg/L	19:11:47
1	Ca 315.886†	3498.5	357.5	-0.0131	mg/L	-0.0131	mg/L	19:11:47
1	Cd 228.802†	389.0	-8.2	0.0001	mg/L	0.0001	mg/L	19:12:08
1	Co 228.616†	-404.1	-4.8	-0.0021	mg/L	-0.0021	mg/L	19:12:08
1	Cr 267.716†	1830.4	42.1	-0.0009	mg/L	-0.0009	mg/L	19:11:47
1	Cu 324.752†	1374.0	-101.6	-0.0007	mg/L	-0.0007	mg/L	19:11:47
1	Fe 238.204†	938.1	-57.5	-0.0078	mg/L	-0.0078	mg/L	19:12:08
1	Fe 234.349†	199.1	-28.0	-0.0056	mg/L	-0.0056	mg/L	19:12:08
1	Mg 279.077†	46.2	42.1	-0.0004	mg/L	-0.0004	mg/L	19:11:47
1	Mn 257.610†	1027.8	164.0	-0.0024	mg/L	-0.0024	mg/L	19:11:47
1	Mo 202.031†	28.3	19.9	-0.0002	mg/L	-0.0002	mg/L	19:12:08
1	Na 330.237†	1107.4	-66.7	0.5165	mg/L	0.5165	mg/L	19:11:47
1	Ni 231.604†	387.7	20.5	-0.0016	mg/L	-0.0016	mg/L	19:12:08
1	Pb 220.353†	-109.7	12.7	-0.0003	mg/L	-0.0003	mg/L	19:12:08

1	Sb 206.836†	78.3	-2.7	-0.0004 mg/L	-0.0004 mg/L	19:12:0
1	Se 196.026†	1.3	9.7	0.0118 mg/L	0.0118 mg/L	19:12:0
1	Sn 189.927†	47.2	-29.1	-0.0160 mg/L	-0.0160 mg/L	19:12:0
1	Ti 337.279†	1192.3	244.0	-0.0005 mg/L	-0.0005 mg/L	19:11:4
1	Tl 190.801†	7.8	19.4	0.0343 mg/L	0.0343 mg/L	19:12:0
1	V 292.402†	2382.2	-111.1	-0.0008 mg/L	-0.0008 mg/L	19:11:4
1	Zn 213.857†	918.0	-50.6	-0.0012 mg/L	-0.0012 mg/L	19:12:0
2	Y 360.073	2497957.0	2497957.0			19:12:1
2	Ag 328.068†	-658.7	38.4	0.0003 mg/L	0.0003 mg/L	19:12:1
2	Al 237.313†	-294.9	29.2	0.0026 mg/L	0.0026 mg/L	19:12:3
2	As 188.979†	-2.4	-3.3	-0.0035 mg/L	-0.0035 mg/L	19:12:3
2	B 182.528†	-24.9	9.3	0.0070 mg/L	0.0070 mg/L	19:12:3
2	Ba 233.527†	-135.6	22.3	-0.0013 mg/L	-0.0013 mg/L	19:12:3
2	Be 313.107†	5231.6	-8.6	-0.0001 mg/L	-0.0001 mg/L	19:12:1
2	Ca 315.886†	3492.3	327.3	-0.0133 mg/L	-0.0133 mg/L	19:12:1
2	Cd 228.802†	399.2	-0.9	0.0002 mg/L	0.0002 mg/L	19:12:3
2	Co 228.616†	-408.2	-6.2	-0.0021 mg/L	-0.0021 mg/L	19:12:3
2	Cr 267.716†	1722.6	-76.0	-0.0017 mg/L	-0.0017 mg/L	19:12:1
2	Cu 324.752†	1378.6	-106.6	-0.0008 mg/L	-0.0008 mg/L	19:12:1
2	Fe 238.204†	926.3	-75.6	-0.0080 mg/L	-0.0080 mg/L	19:12:3
2	Fe 234.349†	182.7	-45.4	-0.0060 mg/L	-0.0060 mg/L	19:12:3
2	Mg 279.077†	82.0	76.8	0.0012 mg/L	0.0012 mg/L	19:12:1
2	Mn 257.610†	1069.0	197.2	-0.0024 mg/L	-0.0024 mg/L	19:12:1
2	Mo 202.031†	31.5	22.9	0.0001 mg/L	0.0001 mg/L	19:12:3
2	Na 330.237†	1114.6	-67.3	0.5151 mg/L	0.5151 mg/L	19:12:1
2	Ni 231.604†	362.0	-7.4	-0.0021 mg/L	-0.0021 mg/L	19:12:3
2	Pb 220.353†	-110.0	13.2	-0.0002 mg/L	-0.0002 mg/L	19:12:3
2	Sb 206.836†	87.2	5.4	0.0018 mg/L	0.0018 mg/L	19:12:3
2	Se 196.026†	-5.0	3.6	0.0032 mg/L	0.0032 mg/L	19:12:3
2	Sn 189.927†	41.1	-35.4	-0.0180 mg/L	-0.0180 mg/L	19:12:3
2	Ti 337.279†	1002.0	49.5	-0.0007 mg/L	-0.0007 mg/L	19:12:1
2	Tl 190.801†	3.0	14.6	0.0300 mg/L	0.0300 mg/L	19:12:3
2	V 292.402†	2472.5	-39.2	-0.0005 mg/L	-0.0005 mg/L	19:12:1
2	Zn 213.857†	914.6	-60.2	-0.0013 mg/L	-0.0013 mg/L	19:12:3

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**Mean Data: ICCB**

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2489235.3				12334.32	0.50%
Ag 328.068†	113.8	0.0006 mg/L	0.00032	0.0006 mg/L	0.00032	57.58%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	30.6	0.0028 mg/L	0.00023	0.0028 mg/L	0.00023	8.05%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	-2.2	-0.0025 mg/L	0.00132	-0.0025 mg/L	0.00132	52.02%
QC value within limits for As 188.979 Recovery = Not calculated						
B 182.528†	8.8	0.0066 mg/L	0.00056	0.0066 mg/L	0.00056	8.51%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	16.3	-0.0013 mg/L	0.00005	-0.0013 mg/L	0.00005	3.59%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-10.6	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	0.36%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.886†	342.4	-0.0132 mg/L	0.00014	-0.0132 mg/L	0.00014	1.08%
QC value within limits for Ca 315.886 Recovery = Not calculated						
Cd 228.802†	-4.5	0.0002 mg/L	0.00007	0.0002 mg/L	0.00007	35.24%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-5.5	-0.0021 mg/L	0.00001	-0.0021 mg/L	0.00001	0.60%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-17.0	-0.0013 mg/L	0.00055	-0.0013 mg/L	0.00055	42.64%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-104.1	-0.0008 mg/L	0.00002	-0.0008 mg/L	0.00002	2.60%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204†	-66.6	-0.0079 mg/L	0.00010	-0.0079 mg/L	0.00010	1.28%
QC value within limits for Fe 238.204 Recovery = Not calculated						
Fe 234.349†	-36.7	-0.0058 mg/L	0.00030	-0.0058 mg/L	0.00030	5.14%
QC value within limits for Fe 234.349 Recovery = Not calculated						
Mg 279.077†	59.5	0.0004 mg/L	0.00112	0.0004 mg/L	0.00112	283.26%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	180.6	-0.0024 mg/L	0.00002	-0.0024 mg/L	0.00002	0.98%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	21.4	0.0000 mg/L	0.00016	0.0000 mg/L	0.00016	392.17%

QC value within limits for Mo 202.031	Recovery = Not calculated
Na 330.237†	-67.0 0.5158 mg/L 0.00094 0.5158 mg/L 0.00094 0.18%
QC value within limits for Na 330.237	Recovery = Not calculated
Ni 231.604†	6.5 -0.0019 mg/L 0.00035 -0.0019 mg/L 0.00035 18.65%
QC value within limits for Ni 231.604	Recovery = Not calculated
Pb 220.353†	13.0 -0.0002 mg/L 0.00004 -0.0002 mg/L 0.00004 18.12%
QC value within limits for Pb 220.353	Recovery = Not calculated
Sb 206.836†	1.4 0.0007 mg/L 0.00158 0.0007 mg/L 0.00158 232.01%
QC value within limits for Sb 206.836	Recovery = Not calculated
Se 196.026†	6.7 0.0075 mg/L 0.00610 0.0075 mg/L 0.00610 81.54%
QC value within limits for Se 196.026	Recovery = Not calculated
Sn 189.927†	-32.3 -0.0170 mg/L 0.00140 -0.0170 mg/L 0.00140 8.24%
QC value within limits for Sn 189.927	Recovery = Not calculated
Ti 337.279†	146.7 -0.0006 mg/L 0.00018 -0.0006 mg/L 0.00018 30.56%
QC value within limits for Ti 337.279	Recovery = Not calculated
Tl 190.801†	17.0 0.0322 mg/L 0.00305 0.0322 mg/L 0.00305 9.48%
QC value greater than the upper limit for Tl 190.801	Recovery = Not calculated
V 292.402†	-75.2 -0.0007 mg/L 0.00020 -0.0007 mg/L 0.00020 30.85%
QC value within limits for V 292.402	Recovery = Not calculated
Zn 213.857†	-55.4 -0.0012 mg/L 0.00007 -0.0012 mg/L 0.00007 5.68%
QC value within limits for Zn 213.857	Recovery = Not calculated
QC Failed. Continue with analysis.	

Sequence No.: 47  
 Sample ID: BF62206-PDS2  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 39  
 Date Collected: 6/22/2006 7:14:15 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: BF62206-PDS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2487592.8	2487592.8			19:15:49
1	Ag 328.068†	84815.8	84068.9	0.2503 mg/L	0.2503 mg/L	19:15:55
1	Al 237.313†	22812.7	22745.9	2.505 mg/L	2.505 mg/L	19:15:55
1	As 188.979†	608.7	597.5	0.5001 mg/L	0.5001 mg/L	19:16:15
1	B 182.528†	667.3	689.7	0.5564 mg/L	0.5564 mg/L	19:16:15
1	Ba 233.527†	96042.1	94577.7	0.5193 mg/L	0.5193 mg/L	19:15:55
1	Be 313.107†	331550.2	320828.8	0.0509 mg/L	0.0509 mg/L	19:15:49
1	Ca 315.886†	4705984.3	4623537.4	31.13 mg/L	31.13 mg/L	19:15:49
1	Cd 228.802†	21290.7	20540.0	0.2448 mg/L	0.2448 mg/L	19:15:55
1	Co 228.616†	34949.0	34753.2	0.4865 mg/L	0.4865 mg/L	19:15:55
1	Cr 267.716†	78991.2	75896.6	0.5012 mg/L	0.5012 mg/L	19:15:55
1	Cu 324.752†	94870.9	91814.9	0.5090 mg/L	0.5090 mg/L	19:15:55
1	Fe 238.204†	403008.1	395229.9	3.127 mg/L	3.127 mg/L	19:15:49
1	Fe 234.349†	129125.2	126723.5	3.084 mg/L	3.084 mg/L	19:15:55
1	Mg 279.077†	203774.2	200334.6	9.101 mg/L	9.101 mg/L	19:15:55
1	Mn 257.610†	1254749.8	1232742.1	1.235 mg/L	1.235 mg/L	19:15:49
1	Mo 202.031†	6694.9	6574.0	0.5015 mg/L	0.5015 mg/L	19:16:15
1	Na 330.237†	32267.9	30565.3	64.64 mg/L	64.64 mg/L	19:15:55
1	Ni 231.604†	29133.3	28280.6	0.4952 mg/L	0.4952 mg/L	19:15:55
1	Pb 220.353†	4445.6	4491.3	0.4951 mg/L	0.4951 mg/L	19:16:15
1	Sb 206.836†	1905.0	1793.0	0.4862 mg/L	0.4862 mg/L	19:16:15
1	Se 196.026†	732.3	728.4	1.017 mg/L	1.017 mg/L	19:16:15
1	Sn 189.927†	1764.9	1659.4	0.5175 mg/L	0.5175 mg/L	19:16:15
1	Ti 337.279†	393661.6	386091.9	0.5124 mg/L	0.5124 mg/L	19:15:49
1	Tl 190.801†	568.4	570.5	0.5478 mg/L	0.5478 mg/L	19:16:15
1	V 292.402†	125860.4	121278.2	0.4977 mg/L	0.4977 mg/L	19:15:55
1	Zn 213.857†	50457.3	48650.7	0.5187 mg/L	0.5187 mg/L	19:15:55
2	Y 360.073	2511378.6	2511378.6			19:16:22
2	Ag 328.068†	84828.6	83291.6	0.2480 mg/L	0.2480 mg/L	19:16:27
2	Al 237.313†	22769.3	22491.3	2.476 mg/L	2.476 mg/L	19:16:27
2	As 188.979†	612.4	595.4	0.4984 mg/L	0.4984 mg/L	19:16:47
2	B 182.528†	663.6	679.9	0.5485 mg/L	0.5485 mg/L	19:16:47
2	Ba 233.527†	95810.0	93457.4	0.5131 mg/L	0.5131 mg/L	19:16:27
2	Be 313.107†	334033.8	320160.1	0.0508 mg/L	0.0508 mg/L	19:16:22
2	Ca 315.886†	4735611.9	4608569.7	31.03 mg/L	31.03 mg/L	19:16:22
2	Cd 228.802†	21312.0	20362.4	0.2427 mg/L	0.2427 mg/L	19:16:27
2	Co 228.616†	34990.0	34467.7	0.4825 mg/L	0.4825 mg/L	19:16:27



2	Cr 267.716†	78793.8	74968.9	0.4951 mg/L	0.4951 mg/L	19:16:4
2	Cu 324.752†	95555.9	91598.5	0.5078 mg/L	0.5078 mg/L	19:16:4
2	Fe 238.204†	405271.7	393681.6	3.114 mg/L	3.114 mg/L	19:16:4
2	Fe 234.349†	129065.7	125463.2	3.053 mg/L	3.053 mg/L	19:16:4
2	Mg 279.077†	203600.9	198268.4	9.007 mg/L	9.007 mg/L	19:16:4
2	Mn 257.610†	1263119.3	1229209.0	1.232 mg/L	1.232 mg/L	19:16:4
2	Mo 202.031†	6652.9	6470.8	0.4936 mg/L	0.4936 mg/L	19:16:4
2	Na 330.237†	32196.2	30194.9	63.87 mg/L	63.87 mg/L	19:16:4
2	Ni 231.604†	29125.4	28001.3	0.4903 mg/L	0.4903 mg/L	19:16:4
2	Pb 220.353†	4445.5	4450.0	0.4905 mg/L	0.4905 mg/L	19:16:4
2	Sb 206.836†	1890.7	1761.3	0.4776 mg/L	0.4776 mg/L	19:16:4
2	Se 196.026†	723.4	712.9	0.9957 mg/L	0.9957 mg/L	19:16:4
2	Sn 189.927†	1754.7	1633.1	0.5092 mg/L	0.5092 mg/L	19:16:4
2	Ti 337.279†	397183.4	385856.0	0.5121 mg/L	0.5121 mg/L	19:16:4
2	Tl 190.801†	560.1	557.1	0.5356 mg/L	0.5356 mg/L	19:16:4
2	V 292.402†	125757.3	120005.8	0.4924 mg/L	0.4924 mg/L	19:16:4
2	Zn 213.857†	50494.2	48216.9	0.5141 mg/L	0.5141 mg/L	19:16:4

## Mean Data: BF62206-PDS2

Analyte	Mean Corrected		Calib		Sample		RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	
Y 360.073	2499485.7						
Ag 328.068†	83680.2	0.2492	mg/L	0.00164	0.2492	mg/L	16819.08 0.66
Al 237.313†	22618.6	2.490	mg/L	0.0199	2.490	mg/L	0.0199 0.80
As 188.979†	596.4	0.4993	mg/L	0.00123	0.4993	mg/L	0.00123 0.25
B 182.528†	684.8	0.5525	mg/L	0.00559	0.5525	mg/L	0.00559 1.01
Ba 233.527†	94017.5	0.5162	mg/L	0.00436	0.5162	mg/L	0.00436 0.84
Be 313.107†	320494.4	0.0509	mg/L	0.00008	0.0509	mg/L	0.00008 0.15
Ca 315.886†	4616053.6	31.08	mg/L	0.071	31.08	mg/L	0.071 0.23
Cd 228.802†	20451.2	0.2437	mg/L	0.00150	0.2437	mg/L	0.00150 0.62
Co 228.616†	34610.5	0.4845	mg/L	0.00284	0.4845	mg/L	0.00284 0.59
Cr 267.716†	75432.8	0.4982	mg/L	0.00434	0.4982	mg/L	0.00434 0.87
Cu 324.752†	91706.7	0.5084	mg/L	0.00085	0.5084	mg/L	0.00085 0.17
Fe 238.204†	394455.8	3.120	mg/L	0.0087	3.120	mg/L	0.0087 0.28
Fe 234.349†	126093.4	3.069	mg/L	0.0217	3.069	mg/L	0.0217 0.71
Mg 279.077†	199301.5	9.054	mg/L	0.0664	9.054	mg/L	0.0664 0.73
Mn 257.610†	1230975.5	1.234	mg/L	0.0025	1.234	mg/L	0.0025 0.20
Mo 202.031†	6522.4	0.4976	mg/L	0.00558	0.4976	mg/L	0.00558 1.12
Na 330.237†	30380.1	64.26	mg/L	0.548	64.26	mg/L	0.548 0.85
Ni 231.604†	28140.8	0.4927	mg/L	0.00347	0.4927	mg/L	0.00347 0.70
Pb 220.353†	4470.8	0.4928	mg/L	0.00325	0.4928	mg/L	0.00325 0.66
Sb 206.836†	1777.2	0.4819	mg/L	0.00608	0.4819	mg/L	0.00608 1.26
Se 196.026†	720.6	1.007	mg/L	0.0154	1.007	mg/L	0.0154 1.53
Sn 189.927†	1646.2	0.5133	mg/L	0.00588	0.5133	mg/L	0.00588 1.14
Ti 337.279†	385973.9	0.5122	mg/L	0.00022	0.5122	mg/L	0.00022 0.04
Tl 190.801†	563.8	0.5417	mg/L	0.00858	0.5417	mg/L	0.00858 1.58
V 292.402†	120642.0	0.4950	mg/L	0.00370	0.4950	mg/L	0.00370 0.75
Zn 213.857†	48433.8	0.5164	mg/L	0.00327	0.5164	mg/L	0.00327 0.63

## Matrix Recovery Check: BF62206-PDS2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.2508	0.2492	0.002	mg/L	99.3
Al 237.313	2.561	2.490	0.020	mg/L	97.2
As 188.979	0.5030	0.4993	0.001	mg/L	99.2
B 182.528	0.5588	0.5525	0.006	mg/L	98.7
Ba 233.527	0.5358	0.5162	0.004	mg/L	96.1
Be 313.107	0.0499	0.0509	0.000	mg/L	102.0
Ca 315.886	31.30	31.08	0.071	mg/L	95.5
Cd 228.802	0.2501	0.2437	0.002	mg/L	97.4
Co 228.616	0.4989	0.4845	0.003	mg/L	97.1
Cr 267.716	0.5029	0.4982	0.004	mg/L	99.0
Cu 324.752	0.5109	0.5084	0.001	mg/L	99.5
Fe 238.204	3.105	3.120	0.009	mg/L	100.6
Fe 234.349	3.119	3.069	0.022	mg/L	98.0
Mg 279.077	9.303	9.054	0.066	mg/L	95.0
Mn 257.610	1.257	1.234	0.003	mg/L	95.3
Mo 202.031	0.4986	0.4976	0.006	mg/L	99.8
Na 330.237	62.83	64.26	0.548	mg/L	105.7

Ni 231.604	0.5003	0.4927	0.003	mg/L	98.5
Pb 220.353	0.5069	0.4928	0.003	mg/L	97.2
Sb 206.836	0.4980	0.4819	0.006	mg/L	96.8
Se 196.026	1.006	1.007	0.015	mg/L	100.1
Sn 189.927	0.5118	0.5133	0.006	mg/L	100.3
Ti 337.279	0.5027	0.5122	0.000	mg/L	101.9
Tl 190.801	0.5223	0.5417	0.009	mg/L	103.9
V 292.402	0.5010	0.4950	0.004	mg/L	98.8
Zn 213.857	0.5314	0.5164	0.003	mg/L	97.0

Sequence No.: 48  
 Sample ID: BF62207-BLK1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 40  
 Date Collected: 6/22/2006 7:18:25 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: BF62207-BLK1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2519759.2	2519759.2					19:19:5
1	Ag 328.068†	-554.9	144.7	0.0006	mg/L	0.0006	mg/L	19:20:0
1	Al 237.313†	-263.7	61.9	0.0062	mg/L	0.0062	mg/L	19:20:2
1	As 188.979†	0.5	-0.5	-0.0011	mg/L	-0.0011	mg/L	19:20:2
1	B 182.528†	-20.5	13.7	0.0105	mg/L	0.0105	mg/L	19:20:2
1	Ba 233.527†	-144.4	14.9	-0.0013	mg/L	-0.0013	mg/L	19:20:2
1	Be 313.107†	5158.0	-124.4	-0.0001	mg/L	-0.0001	mg/L	19:20:0
1	Ca 315.886†	4826.9	1593.1	-0.0048	mg/L	-0.0048	mg/L	19:20:0
1	Cd 228.802†	381.2	-21.7	0.0000	mg/L	0.0000	mg/L	19:20:2
1	Co 228.616†	-381.1	23.6	-0.0017	mg/L	-0.0017	mg/L	19:20:2
1	Cr 267.716†	1807.0	-8.8	-0.0012	mg/L	-0.0012	mg/L	19:20:0
1	Cu 324.752†	1439.6	-59.0	-0.0005	mg/L	-0.0005	mg/L	19:20:0
1	Fe 238.204†	2254.4	1205.6	0.0022	mg/L	0.0022	mg/L	19:20:2
1	Fe 234.349†	604.9	362.8	0.0040	mg/L	0.0040	mg/L	19:20:2
1	Mg 279.077†	11.5	7.7	-0.0020	mg/L	-0.0020	mg/L	19:20:0
1	Mn 257.610†	1287.0	399.8	-0.0022	mg/L	-0.0022	mg/L	19:20:0
1	Mo 202.031†	202.031	36.2	0.0004	mg/L	0.0004	mg/L	19:20:2
1	Na 330.237†	1134.6	-57.3	0.5358	mg/L	0.5358	mg/L	19:20:0
1	Ni 231.604†	386.3	13.2	-0.0017	mg/L	-0.0017	mg/L	19:20:2
1	Pb 220.353†	-105.1	18.9	0.0004	mg/L	0.0004	mg/L	19:20:2
1	Sb 206.836†	74.7	-7.4	-0.0017	mg/L	-0.0017	mg/L	19:20:2
1	Se 196.026†	-3.1	5.5	0.0058	mg/L	0.0058	mg/L	19:20:2
1	Sn 189.927†	56.4	-20.9	-0.0134	mg/L	-0.0134	mg/L	19:20:2
1	Ti 337.279†	1215.2	247.9	-0.0005	mg/L	-0.0005	mg/L	19:20:0
1	Tl 190.801†	17.5	28.7	0.0428	mg/L	0.0428	mg/L	19:20:2
1	V 292.402†	2376.7	-153.1	-0.0010	mg/L	-0.0010	mg/L	19:20:0
1	Zn 213.857†	1283.4	289.9	0.0025	mg/L	0.0025	mg/L	19:20:2
2	Y 360.073	2484642.1	2484642.1					19:20:2
2	Ag 328.068†	-672.1	21.8	0.0003	mg/L	0.0003	mg/L	19:20:3
2	Al 237.313†	-285.7	36.7	0.0034	mg/L	0.0034	mg/L	19:20:5
2	As 188.979†	-2.2	-3.1	-0.0033	mg/L	-0.0033	mg/L	19:20:5
2	B 182.528†	-19.7	14.3	0.0110	mg/L	0.0110	mg/L	19:20:5
2	Ba 233.527†	-121.0	35.9	-0.0012	mg/L	-0.0012	mg/L	19:20:5
2	Be 313.107†	5329.3	115.0	-0.0001	mg/L	-0.0001	mg/L	19:20:3
2	Ca 315.886†	4662.3	1497.3	-0.0054	mg/L	-0.0054	mg/L	19:20:3
2	Cd 228.802†	399.7	1.7	0.0003	mg/L	0.0003	mg/L	19:20:5
2	Co 228.616†	-404.8	-4.9	-0.0021	mg/L	-0.0021	mg/L	19:20:5
2	Cr 267.716†	1855.5	63.8	-0.0008	mg/L	-0.0008	mg/L	19:20:3
2	Cu 324.752†	1436.0	-42.8	-0.0004	mg/L	-0.0004	mg/L	19:20:3
2	Fe 238.204†	2198.2	1181.2	0.0020	mg/L	0.0020	mg/L	19:20:5
2	Fe 234.349†	598.2	364.5	0.0040	mg/L	0.0040	mg/L	19:20:5
2	Mg 279.077†	54.4	50.1	-0.0001	mg/L	-0.0001	mg/L	19:20:3
2	Mn 257.610†	1268.5	399.2	-0.0022	mg/L	-0.0022	mg/L	19:20:3
2	Mo 202.031†	31.9	23.5	0.0001	mg/L	0.0001	mg/L	19:20:5
2	Na 330.237†	1115.5	-60.6	0.5290	mg/L	0.5290	mg/L	19:20:3
2	Ni 231.604†	393.5	25.6	-0.0015	mg/L	-0.0015	mg/L	19:20:5
2	Pb 220.353†	-122.1	0.7	-0.0016	mg/L	-0.0016	mg/L	19:20:5
2	Sb 206.836†	80.4	-0.8	0.0001	mg/L	0.0001	mg/L	19:20:5
2	Se 196.026†	-4.0	4.5	0.0045	mg/L	0.0045	mg/L	19:20:5
2	Sn 189.927†	59.0	-17.6	-0.0124	mg/L	-0.0124	mg/L	19:20:5

2	Ti 337.279†	1257.4	306.1	-0.0004 mg/L	-0.0004 mg/L	19:20:34
2	Tl 190.801†	10.4	21.9	0.0366 mg/L	0.0366 mg/L	19:20:54
2	V 292.402†	2377.6	-119.6	-0.0008 mg/L	-0.0008 mg/L	19:20:34
2	Zn 213.857†	1264.4	288.8	0.0024 mg/L	0.0024 mg/L	19:20:54

Mean Data: BF62207-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 360.073	2502200.7					24831.56	0.99%
Ag 328.068†	83.3	0.0005 mg/L		0.00026	0.0005 mg/L	0.00026	56.21%
Al 237.313†	49.3	0.0048 mg/L		0.00200	0.0048 mg/L	0.00200	41.44%
As 188.979†	-1.8	-0.0022 mg/L		0.00157	-0.0022 mg/L	0.00157	71.66%
B 182.528†	14.0	0.0108 mg/L		0.00033	0.0108 mg/L	0.00033	3.06%
Ba 233.527†	25.4	-0.0013 mg/L		0.00008	-0.0013 mg/L	0.00008	6.50%
Be 313.107†	-4.7	-0.0001 mg/L		0.00003	-0.0001 mg/L	0.00003	23.64%
Ca 315.886†	1545.2	-0.0051 mg/L		0.00046	-0.0051 mg/L	0.00046	8.89%
Cd 228.802†	-10.0	0.0001 mg/L		0.00020	0.0001 mg/L	0.00020	169.16%
Co 228.616†	9.3	-0.0019 mg/L		0.00028	-0.0019 mg/L	0.00028	15.37%
Cr 267.716†	27.5	-0.0010 mg/L		0.00034	-0.0010 mg/L	0.00034	33.92%
Cu 324.752†	-50.9	-0.0005 mg/L		0.00006	-0.0005 mg/L	0.00006	13.70%
Fe 238.204†	1193.4	0.0021 mg/L		0.00014	0.0021 mg/L	0.00014	6.58%
Fe 234.349†	363.7	0.0040 mg/L		0.00003	0.0040 mg/L	0.00003	0.72%
Mg 279.077†	28.9	-0.0010 mg/L		0.00136	-0.0010 mg/L	0.00136	134.25%
Mn 257.610†	399.5	-0.0022 mg/L		0.00000	-0.0022 mg/L	0.00000	0.02%
Mo 202.031†	25.3	0.0003 mg/L		0.00020	0.0003 mg/L	0.00020	77.30%
Na 330.237†	-58.9	0.5324 mg/L		0.00482	0.5324 mg/L	0.00482	0.91%
Ni 231.604†	19.4	-0.0016 mg/L		0.00015	-0.0016 mg/L	0.00015	9.44%
Pb 220.353†	9.8	-0.0006 mg/L		0.00142	-0.0006 mg/L	0.00142	247.41%
Sb 206.836†	-4.1	-0.0008 mg/L		0.00128	-0.0008 mg/L	0.00128	154.75%
Se 196.026†	5.0	0.0052 mg/L		0.00092	0.0052 mg/L	0.00092	17.77%
Sn 189.927†	-19.3	-0.0129 mg/L		0.00073	-0.0129 mg/L	0.00073	5.65%
Ti 337.279†	277.0	-0.0004 mg/L		0.00005	-0.0004 mg/L	0.00005	12.88%
Tl 190.801†	25.3	0.0397 mg/L		0.00437	0.0397 mg/L	0.00437	11.00%
V 292.402†	-136.3	-0.0009 mg/L		0.00010	-0.0009 mg/L	0.00010	10.95%
Zn 213.857†	289.4	0.0025 mg/L		0.00001	0.0025 mg/L	0.00001	0.39%

Sequence No.: 49  
 Sample ID: BF62207-BS1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 41  
 Date Collected: 6/22/2006 7:22:31 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: BF62207-BS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2511061.2	2511061.2			19:24:05
1	Ag 328.068†	88929.5	87296.1	0.2599 mg/L	0.2599 mg/L	19:24:11
1	Al 237.313†	23240.2	22952.7	2.537 mg/L	2.537 mg/L	19:24:11
1	As 188.979†	635.9	618.4	0.5176 mg/L	0.5176 mg/L	19:24:31
1	B 182.528†	629.5	646.8	0.5218 mg/L	0.5218 mg/L	19:24:31
1	Ba 233.527†	94695.8	92384.0	0.5072 mg/L	0.5072 mg/L	19:24:11
1	Be 313.107†	347549.3	333364.6	0.0529 mg/L	0.0529 mg/L	19:24:05
1	Ca 315.886†	803241.8	779224.7	5.233 mg/L	5.233 mg/L	19:24:05
1	Cd 228.802†	22678.9	21696.3	0.2586 mg/L	0.2586 mg/L	19:24:11
1	Co 228.616†	37058.6	36486.8	0.5109 mg/L	0.5109 mg/L	19:24:11
1	Cr 267.716†	82339.3	78431.8	0.5182 mg/L	0.5182 mg/L	19:24:11
1	Cu 324.752†	95475.8	91532.3	0.5074 mg/L	0.5074 mg/L	19:24:11
1	Fe 238.204†	339272.4	329451.6	2.605 mg/L	2.605 mg/L	19:24:11
1	Fe 234.349†	109705.0	106622.7	2.593 mg/L	2.593 mg/L	19:24:11
1	Mg 279.077†	114382.3	111399.1	5.057 mg/L	5.057 mg/L	19:24:11
1	Mn 257.610†	537174.8	522331.5	0.5220 mg/L	0.5220 mg/L	19:24:05
1	Mo 202.031†	7016.9	6826.1	0.5208 mg/L	0.5208 mg/L	19:24:31
1	Na 330.237†	13182.6	11680.7	25.11 mg/L	25.11 mg/L	19:24:11
1	Ni 231.604†	30825.1	29660.3	0.5194 mg/L	0.5194 mg/L	19:24:11
1	Pb 220.353†	4688.6	4687.4	0.5168 mg/L	0.5168 mg/L	19:24:31
1	Sb 206.836†	1992.5	1860.7	0.5046 mg/L	0.5046 mg/L	19:24:31
1	Se 196.026†	768.8	757.2	1.058 mg/L	1.058 mg/L	19:24:31
1	Sn 189.927†	1756.8	1635.4	0.5099 mg/L	0.5099 mg/L	19:24:31

1	Ti 337.279†	408531.2	396957.0	0.5268 mg/L	0.5268 mg/L	19:24:05
1	Tl 190.801†	614.4	610.1	0.5736 mg/L	0.5736 mg/L	19:24:31
1	V 292.402†	131314.2	125433.5	0.5147 mg/L	0.5147 mg/L	19:24:11
1	Zn 213.857†	50677.9	48402.0	0.5159 mg/L	0.5159 mg/L	19:24:11
2	Y 360.073	2509575.5	2509575.5			19:24:38
2	Ag 328.068†	89294.0	87702.6	0.2611 mg/L	0.2611 mg/L	19:24:43
2	Al 237.313†	23348.2	23071.3	2.551 mg/L	2.551 mg/L	19:24:43
2	As 188.979†	633.4	616.3	0.5159 mg/L	0.5159 mg/L	19:25:04
2	B 182.528†	626.5	644.1	0.5197 mg/L	0.5197 mg/L	19:25:04
2	Ba 233.527†	94976.4	92712.0	0.5090 mg/L	0.5090 mg/L	19:24:43
2	Be 313.107†	347722.9	333734.2	0.0530 mg/L	0.0530 mg/L	19:24:38
2	Ca 315.886†	803560.2	779998.1	5.239 mg/L	5.239 mg/L	19:24:38
2	Cd 228.802†	22728.2	21757.5	0.2593 mg/L	0.2593 mg/L	19:24:43
2	Co 228.616†	37215.9	36661.3	0.5133 mg/L	0.5133 mg/L	19:24:43
2	Cr 267.716†	82411.9	78549.9	0.5190 mg/L	0.5190 mg/L	19:24:43
2	Cu 324.752†	96006.1	92104.1	0.5106 mg/L	0.5106 mg/L	19:24:43
2	Fe 238.204†	340260.0	330609.6	2.614 mg/L	2.614 mg/L	19:24:43
2	Fe 234.349†	110074.3	107045.9	2.604 mg/L	2.604 mg/L	19:24:43
2	Mg 279.077†	114650.3	111726.2	5.072 mg/L	5.072 mg/L	19:24:43
2	Mn 257.610†	537507.3	522965.2	0.5226 mg/L	0.5226 mg/L	19:24:38
2	Mo 202.031†	7029.0	6842.0	0.5220 mg/L	0.5220 mg/L	19:25:04
2	Na 330.237†	13147.5	11654.1	25.05 mg/L	25.05 mg/L	19:24:43
2	Ni 231.604†	30926.8	29777.2	0.5215 mg/L	0.5215 mg/L	19:24:43
2	Pb 220.353†	4712.3	4713.2	0.5196 mg/L	0.5196 mg/L	19:25:04
2	Sb 206.836†	2008.1	1877.0	0.5090 mg/L	0.5090 mg/L	19:25:04
2	Se 196.026†	772.6	761.3	1.064 mg/L	1.064 mg/L	19:25:04
2	Sn 189.927†	1766.5	1645.8	0.5132 mg/L	0.5132 mg/L	19:25:04
2	Ti 337.279†	408442.6	397106.2	0.5270 mg/L	0.5270 mg/L	19:24:38
2	Tl 190.801†	628.7	624.4	0.5866 mg/L	0.5866 mg/L	19:25:04
2	V 292.402†	131796.4	125979.1	0.5170 mg/L	0.5170 mg/L	19:24:43
2	Zn 213.857†	50802.0	48552.1	0.5175 mg/L	0.5175 mg/L	19:24:43

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Mean Data: BF62207-BS1

Analyte	Mean Corrected		Calib		Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Conc.		Units			
Y 360.073	2510318.4								
Ag 328.068†	87499.3	0.2605	mg/L	0.00086	0.2605	mg/L	1050.50	0.04%	0.33%
Al 237.313†	23012.0	2.544	mg/L	0.0093	2.544	mg/L	0.0086	0.0093	0.37%
As 188.979†	617.3	0.5167	mg/L	0.00125	0.5167	mg/L	0.00125	0.00125	0.24%
B 182.528†	645.5	0.5207	mg/L	0.00152	0.5207	mg/L	0.00152	0.00152	0.29%
Ba 233.527†	92548.0	0.5081	mg/L	0.00128	0.5081	mg/L	0.00128	0.00128	0.25%
Be 313.107†	333549.4	0.0530	mg/L	0.00004	0.0530	mg/L	0.00004	0.00004	0.08%
Ca 315.886†	779611.4	5.236	mg/L	0.0037	5.236	mg/L	0.0037	0.0037	0.07%
Cd 228.802†	21726.9	0.2590	mg/L	0.00052	0.2590	mg/L	0.00052	0.00052	0.20%
Co 228.616†	36574.0	0.5121	mg/L	0.00174	0.5121	mg/L	0.00174	0.00174	0.34%
Cr 267.716†	78490.8	0.5186	mg/L	0.00055	0.5186	mg/L	0.00055	0.00055	0.11%
Cu 324.752†	91818.2	0.5090	mg/L	0.00224	0.5090	mg/L	0.00224	0.00224	0.44%
Fe 238.204†	330030.6	2.610	mg/L	0.0065	2.610	mg/L	0.0065	0.0065	0.25%
Fe 234.349†	106834.3	2.598	mg/L	0.0073	2.598	mg/L	0.0073	0.0073	0.28%
Mg 279.077†	111562.7	5.064	mg/L	0.0105	5.064	mg/L	0.0105	0.0105	0.21%
Mn 257.610†	522648.3	0.5223	mg/L	0.00045	0.5223	mg/L	0.00045	0.00045	0.09%
Mo 202.031†	6834.1	0.5214	mg/L	0.00086	0.5214	mg/L	0.00086	0.00086	0.16%
Na 330.237†	11667.4	25.08	mg/L	0.039	25.08	mg/L	0.039	0.039	0.16%
Ni 231.604†	29718.7	0.5205	mg/L	0.00145	0.5205	mg/L	0.00145	0.00145	0.28%
Pb 220.353†	4700.3	0.5182	mg/L	0.00201	0.5182	mg/L	0.00201	0.00201	0.39%
Sb 206.836†	1868.9	0.5068	mg/L	0.00317	0.5068	mg/L	0.00317	0.00317	0.63%
Se 196.026†	759.3	1.061	mg/L	0.0041	1.061	mg/L	0.0041	0.0041	0.38%
Sn 189.927†	1640.6	0.5116	mg/L	0.00233	0.5116	mg/L	0.00233	0.00233	0.46%
Ti 337.279†	397031.6	0.5269	mg/L	0.00014	0.5269	mg/L	0.00014	0.00014	0.03%
Tl 190.801†	617.2	0.5801	mg/L	0.00920	0.5801	mg/L	0.00920	0.00920	1.59%
V 292.402†	125706.3	0.5158	mg/L	0.00158	0.5158	mg/L	0.00158	0.00158	0.31%
Zn 213.857†	48477.1	0.5167	mg/L	0.00113	0.5167	mg/L	0.00113	0.00113	0.22%

Sequence No.: 50  
Sample ID: BF62207-BSD1  
Analyst:  
Initial Sample Wt:  
Dilution:

Autosampler Location: 42  
Date Collected: 6/22/2006 7:26:42 PM  
Data Type: Original  
Initial Sample Vol:  
Sample Prep Vol:

## Replicate Data: BF62207-BSD1

Repl#	Analyte	Net		Corrected		Calib.		Sample		Analysis Time
		Intensity	Conc.	Intensity	Conc.	Units	Conc.	Units		
1	Y 360.073	2510059.7		2510059.7						19:28:16
1	Ag 328.068†	88886.4		87288.6		0.2599 mg/L		0.2599 mg/L		19:28:21
1	Al 237.313†	23236.9		22958.5		2.538 mg/L		2.538 mg/L		19:28:21
1	As 188.979†	629.6		612.5		0.5127 mg/L		0.5127 mg/L		19:28:42
1	B 182.528†	636.3		653.6		0.5273 mg/L		0.5273 mg/L		19:28:42
1	Ba 233.527†	94626.7		92353.4		0.5070 mg/L		0.5070 mg/L		19:28:21
1	Be 313.107†	347145.4		333106.2		0.0529 mg/L		0.0529 mg/L		19:28:16
1	Ca 315.886†	801983.2		778310.5		5.227 mg/L		5.227 mg/L		19:28:16
1	Cd 228.802†	22600.4		21628.7		0.2578 mg/L		0.2578 mg/L		19:28:21
1	Co 228.616†	37012.9		36456.6		0.5104 mg/L		0.5104 mg/L		19:28:21
1	Cr 267.716†	82247.4		78374.2		0.5178 mg/L		0.5178 mg/L		19:28:21
1	Cu 324.752†	95805.1		91890.2		0.5094 mg/L		0.5094 mg/L		19:28:21
1	Fe 238.204†	338015.2		328358.4		2.596 mg/L		2.596 mg/L		19:28:21
1	Fe 234.349†	109301.5		106272.2		2.585 mg/L		2.585 mg/L		19:28:21
1	Mg 279.077†	114052.1		111121.8		5.044 mg/L		5.044 mg/L		19:28:21
1	Mn 257.610†	537434.6		522793.4		0.5225 mg/L		0.5225 mg/L		19:28:16
1	Mo 202.031†	7057.9		6868.8		0.5240 mg/L		0.5240 mg/L		19:28:42
1	Na 330.237†	13175.4		11678.7		25.10 mg/L		25.10 mg/L		19:28:21
1	Ni 231.604†	30745.7		29594.9		0.5183 mg/L		0.5183 mg/L		19:28:21
1	Pb 220.353†	4675.8		4676.7		0.5156 mg/L		0.5156 mg/L		19:28:42
1	Sb 206.836†	1991.5		1860.5		0.5045 mg/L		0.5045 mg/L		19:28:42
1	Se 196.026†	767.1		755.9		1.056 mg/L		1.056 mg/L		19:28:42
1	Sn 189.927†	1761.6		1640.8		0.5116 mg/L		0.5116 mg/L		19:28:42
1	Ti 337.279†	410941.7		399464.5		0.5302 mg/L		0.5302 mg/L		19:28:16
1	Tl 190.801†	635.9		631.3		0.5929 mg/L		0.5929 mg/L		19:28:42
1	V 292.402†	131168.2		125342.2		0.5143 mg/L		0.5143 mg/L		19:28:21
1	Zn 213.857†	50502.4		48250.7		0.5143 mg/L		0.5143 mg/L		19:28:21
2	Y 360.073	2505154.5		2505154.5						19:28:48
2	Ag 328.068†	89271.9		87834.6		0.2615 mg/L		0.2615 mg/L		19:28:54
2	Al 237.313†	23323.4		23087.3		2.552 mg/L		2.552 mg/L		19:28:54
2	As 188.979†	627.8		611.9		0.5123 mg/L		0.5123 mg/L		19:29:14
2	B 182.528†	629.9		648.6		0.5233 mg/L		0.5233 mg/L		19:29:14
2	Ba 233.527†	95002.4		92900.8		0.5100 mg/L		0.5100 mg/L		19:28:54
2	Be 313.107†	348037.7		334639.6		0.0531 mg/L		0.0531 mg/L		19:28:48
2	Ca 315.886†	804113.0		781919.8		5.252 mg/L		5.252 mg/L		19:28:48
2	Cd 228.802†	22677.4		21747.0		0.2592 mg/L		0.2592 mg/L		19:28:54
2	Co 228.616†	37205.8		36715.5		0.5141 mg/L		0.5141 mg/L		19:28:54
2	Cr 267.716†	82614.6		78889.5		0.5213 mg/L		0.5213 mg/L		19:28:54
2	Cu 324.752†	95749.2		92018.4		0.5101 mg/L		0.5101 mg/L		19:28:54
2	Fe 238.204†	339522.3		330474.6		2.613 mg/L		2.613 mg/L		19:28:54
2	Fe 234.349†	109791.5		106959.2		2.601 mg/L		2.601 mg/L		19:28:54
2	Mg 279.077†	114593.4		111867.8		5.078 mg/L		5.078 mg/L		19:28:54
2	Mn 257.610†	538676.9		525031.5		0.5247 mg/L		0.5247 mg/L		19:28:48
2	Mo 202.031†	6991.1		6817.0		0.5201 mg/L		0.5201 mg/L		19:29:14
2	Na 330.237†	13248.1		11774.8		25.30 mg/L		25.30 mg/L		19:28:54
2	Ni 231.604†	30842.1		29747.7		0.5210 mg/L		0.5210 mg/L		19:28:54
2	Pb 220.353†	4669.4		4679.4		0.5159 mg/L		0.5159 mg/L		19:29:14
2	Sb 206.836†	1984.3		1857.3		0.5036 mg/L		0.5036 mg/L		19:29:14
2	Se 196.026†	769.3		759.4		1.061 mg/L		1.061 mg/L		19:29:14
2	Sn 189.927†	1757.2		1639.7		0.5113 mg/L		0.5113 mg/L		19:29:14
2	Ti 337.279†	411231.3		400531.1		0.5316 mg/L		0.5316 mg/L		19:28:48
2	Tl 190.801†	625.9		622.7		0.5851 mg/L		0.5851 mg/L		19:29:14
2	V 292.402†	131799.0		126208.3		0.5179 mg/L		0.5179 mg/L		19:28:54
2	Zn 213.857†	50839.4		48676.0		0.5188 mg/L		0.5188 mg/L		19:28:54

## Mean Data: BF62207-BSD1

Analyte	Mean Corrected		Calib		Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Conc.		Units			
Y 360.073	2507607.1								
Ag 328.068†	87561.6	0.2607	mg/L	0.00115	0.2607	mg/L	0.00115	0.44%	
Al 237.313†	23022.9	2.545	mg/L	0.0101	2.545	mg/L	0.0101	0.40%	
As 188.979†	612.2	0.5125	mg/L	0.00031	0.5125	mg/L	0.00031	0.06%	
B 182.528†	651.1	0.5253	mg/L	0.00285	0.5253	mg/L	0.00285	0.54%	
Ba 233.527†	92627.1	0.5085	mg/L	0.00213	0.5085	mg/L	0.00213	0.42%	
Be 313.107†	333872.9	0.0530	mg/L	0.00017	0.0530	mg/L	0.00017	0.33%	
Ca 315.886†	780115.2	5.239	mg/L	0.0172	5.239	mg/L	0.0172	0.33%	

Cd 228.802†	21687.8	0.2585 mg/L	0.00100	0.2585 mg/L	0.00100	0.39%
Co 228.616†	36586.0	0.5123 mg/L	0.00258	0.5123 mg/L	0.00258	0.50%
Cr 267.716†	78631.9	0.5195 mg/L	0.00241	0.5195 mg/L	0.00241	0.46%
Cu 324.752†	91954.3	0.5097 mg/L	0.00050	0.5097 mg/L	0.00050	0.10%
Fe 238.204†	329416.5	2.605 mg/L	0.0119	2.605 mg/L	0.0119	0.46%
Fe 234.349†	106615.7	2.593 mg/L	0.0118	2.593 mg/L	0.0118	0.46%
Mg 279.077†	111494.8	5.061 mg/L	0.0240	5.061 mg/L	0.0240	0.47%
Mn 257.610†	523912.4	0.5236 mg/L	0.00159	0.5236 mg/L	0.00159	0.30%
Mo 202.031†	6842.9	0.5221 mg/L	0.00280	0.5221 mg/L	0.00280	0.54%
Na 330.237†	11726.8	25.20 mg/L	0.142	25.20 mg/L	0.142	0.56%
Ni 231.604†	29671.3	0.5196 mg/L	0.00190	0.5196 mg/L	0.00190	0.37%
Pb 220.353†	4678.1	0.5158 mg/L	0.00020	0.5158 mg/L	0.00020	0.04%
Sb 206.836†	1858.9	0.5040 mg/L	0.00065	0.5040 mg/L	0.00065	0.13%
Se 196.026†	757.7	1.058 mg/L	0.0035	1.058 mg/L	0.0035	0.33%
Sn 189.927†	1640.3	0.5115 mg/L	0.00022	0.5115 mg/L	0.00022	0.04%
Ti 337.279†	399997.8	0.5309 mg/L	0.00100	0.5309 mg/L	0.00100	0.19%
Tl 190.801†	627.0	0.5890 mg/L	0.00552	0.5890 mg/L	0.00552	0.94%
V 292.402†	125775.3	0.5161 mg/L	0.00252	0.5161 mg/L	0.00252	0.49%
Zn 213.857†	48463.4	0.5165 mg/L	0.00322	0.5165 mg/L	0.00322	0.62%

Duplicate Check: BF62207-BSD1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.2605	0.2607	0.001	mg/L	0.1
Al 237.313	2.544	2.545	0.010	mg/L	0.0
As 188.979	0.5167	0.5125	0.000	mg/L	0.8
B 182.528	0.5207	0.5253	0.003	mg/L	0.9
Ba 233.527	0.5081	0.5085	0.002	mg/L	0.1
Be 313.107	0.0530	0.0530	0.000	mg/L	0.1
Ca 315.886	5.236	5.239	0.017	mg/L	0.1
Cd 228.802	0.2590	0.2585	0.001	mg/L	0.2
Co 228.616	0.5121	0.5123	0.003	mg/L	0.0
Cr 267.716	0.5186	0.5195	0.002	mg/L	0.2
Cu 324.752	0.5090	0.5097	0.001	mg/L	0.1
Fe 238.204	2.610	2.605	0.012	mg/L	0.2
Fe 234.349	2.598	2.593	0.012	mg/L	0.2
Mg 279.077	5.064	5.061	0.024	mg/L	0.1
Mn 257.610	0.5223	0.5236	0.002	mg/L	0.2
Mo 202.031	0.5214	0.5221	0.003	mg/L	0.1
Na 330.237	25.08	25.20	0.142	mg/L	0.5
Ni 231.604	0.5205	0.5196	0.002	mg/L	0.2
Pb 220.353	0.5182	0.5158	0.000	mg/L	0.5
Sb 206.836	0.5068	0.5040	0.001	mg/L	0.5
Se 196.026	1.061	1.058	0.004	mg/L	0.2
Sn 189.927	0.5116	0.5115	0.000	mg/L	0.0
Ti 337.279	0.5269	0.5309	0.001	mg/L	0.7
Tl 190.801	0.5801	0.5890	0.006	mg/L	1.5
V 292.402	0.5158	0.5161	0.003	mg/L	0.1
Zn 213.857	0.5167	0.5165	0.003	mg/L	0.0

Sequence No.: 51  
Sample ID: 0606346-12  
Analyst:  
Initial Sample Wt:  
Dilution:

Autosampler Location: 43  
Date Collected: 6/22/2006 7:30:52 PM  
Data Type: Original  
Initial Sample Vol:  
Sample Prep Vol:

Replicate Data: 0606346-12

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2480257.9	2480257.9					19:32:26
1	Ag 328.068†	-409.2	279.8	0.0010	mg/L	0.0010	mg/L	19:32:31
1	Al 237.313†	99.3	415.8	0.0387	mg/L	0.0387	mg/L	19:32:51
1	As 188.979†	8.5	7.4	0.0055	mg/L	0.0055	mg/L	19:32:51
1	B 182.528†	36.5	69.6	0.0557	mg/L	0.0557	mg/L	19:32:51
1	Ba 233.527†	4983.4	5068.9	0.0265	mg/L	0.0265	mg/L	19:32:31
1	Be 313.107†	5170.8	-32.0	-0.0001	mg/L	-0.0001	mg/L	19:32:31
1	Ca 315.886†	3447989.7	3396780.8	22.86	mg/L	22.86	mg/L	19:32:26

1	Cd 228.802†	381.3	-15.7	0.0000 mg/L	0.0000 mg/L	19:32:5
1	Co 228.616†	-332.4	65.8	-0.0011 mg/L	-0.0011 mg/L	19:32:5
1	Cr 267.716†	1975.6	185.4	0.0000 mg/L	0.0000 mg/L	19:32:3
1	Cu 324.752†	2516.3	1024.9	0.0055 mg/L	0.0055 mg/L	19:32:3
1	Fe 238.204†	42562.4	40986.0	0.3175 mg/L	0.3175 mg/L	19:32:3
1	Fe 234.349†	14250.1	13827.0	0.3326 mg/L	0.3326 mg/L	19:32:3
1	Mg 279.077†	86091.1	84886.3	3.856 mg/L	3.856 mg/L	19:32:3
1	Mn 257.610†	365967.3	360010.8	0.3589 mg/L	0.3589 mg/L	19:32:2
1	Mo 202.031†	42.2	33.6	0.0009 mg/L	0.0009 mg/L	19:32:5
1	Na 330.237†	19231.0	17804.1	37.93 mg/L	37.93 mg/L	19:32:3
1	Ni 231.604†	511.7	142.8	0.0005 mg/L	0.0005 mg/L	19:32:5
1	Pb 220.353†	-66.3	55.5	0.0045 mg/L	0.0045 mg/L	19:32:5
1	Sb 206.836†	84.0	2.9	0.0011 mg/L	0.0011 mg/L	19:32:5
1	Se 196.026†	-2.8	5.7	0.0061 mg/L	0.0061 mg/L	19:32:5
1	Sn 189.927†	120.5	43.1	0.0067 mg/L	0.0067 mg/L	19:32:5
1	Ti 337.279†	2887.6	1915.8	0.0018 mg/L	0.0018 mg/L	19:32:3
1	Tl 190.801†	2.3	14.0	0.0345 mg/L	0.0345 mg/L	19:32:3
1	V 292.402†	2780.3	281.6	0.0008 mg/L	0.0008 mg/L	19:32:3
1	Zn 213.857†	2719.8	1726.1	0.0179 mg/L	0.0179 mg/L	19:32:5
2	Y 360.073	2463792.0	2463792.0			19:32:5
2	Ag 328.068†	-494.6	192.3	0.0008 mg/L	0.0008 mg/L	19:33:0
2	Al 237.313†	101.5	418.6	0.0390 mg/L	0.0390 mg/L	19:33:2
2	As 188.979†	4.0	3.0	0.0018 mg/L	0.0018 mg/L	19:33:2
2	B 182.528†	36.3	69.7	0.0558 mg/L	0.0558 mg/L	19:33:2
2	Ba 233.527†	4881.1	5000.3	0.0261 mg/L	0.0261 mg/L	19:33:0
2	Be 313.107†	5185.7	16.9	-0.0001 mg/L	-0.0001 mg/L	19:33:0
2	Ca 315.886†	3431520.3	3403154.5	22.91 mg/L	22.91 mg/L	19:32:5
2	Cd 228.802†	393.4	-1.3	0.0002 mg/L	0.0002 mg/L	19:33:2
2	Co 228.616†	-309.7	86.1	-0.0008 mg/L	-0.0008 mg/L	19:33:2
2	Cr 267.716†	1960.0	183.0	-0.0001 mg/L	-0.0001 mg/L	19:33:0
2	Cu 324.752†	2536.1	1061.2	0.0057 mg/L	0.0057 mg/L	19:33:0
2	Fe 238.204†	42346.8	41052.4	0.3181 mg/L	0.3181 mg/L	19:33:0
2	Fe 234.349†	14173.8	13845.2	0.3331 mg/L	0.3331 mg/L	19:33:0
2	Mg 279.077†	85826.8	85191.2	3.870 mg/L	3.870 mg/L	19:33:0
2	Mn 257.610†	363955.3	360425.4	0.3593 mg/L	0.3593 mg/L	19:32:5
2	Mo 202.031†	37.9	29.7	0.0006 mg/L	0.0006 mg/L	19:33:2
2	Na 330.237†	19058.8	17759.9	37.84 mg/L	37.84 mg/L	19:33:0
2	Ni 231.604†	510.6	145.1	0.0006 mg/L	0.0006 mg/L	19:33:2
2	Pb 220.353†	-55.1	66.2	0.0056 mg/L	0.0056 mg/L	19:33:2
2	Sb 206.836†	83.5	3.0	0.0011 mg/L	0.0011 mg/L	19:33:2
2	Se 196.026†	0.6	9.1	0.0109 mg/L	0.0109 mg/L	19:33:2
2	Sn 189.927†	134.8	58.2	0.0115 mg/L	0.0115 mg/L	19:33:2
2	Ti 337.279†	2718.9	1767.3	0.0016 mg/L	0.0016 mg/L	19:33:0
2	Tl 190.801†	-1.0	10.6	0.0314 mg/L	0.0314 mg/L	19:33:2
2	V 292.402†	2782.0	301.6	0.0009 mg/L	0.0009 mg/L	19:33:0
2	Zn 213.857†	2717.9	1742.2	0.0180 mg/L	0.0180 mg/L	19:33:2

Mean Data: 0606346-12

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2472024.9						11643.15	0.47%
Ag 328.068†	236.1	0.0009	mg/L	0.00018	0.0009	mg/L	0.00018	20.11%
Al 237.313†	417.2	0.0389	mg/L	0.00021	0.0389	mg/L	0.00021	0.54%
As 188.979†	5.2	0.0037	mg/L	0.00261	0.0037	mg/L	0.00261	71.52%
B 182.528†	69.7	0.0557	mg/L	0.00007	0.0557	mg/L	0.00007	0.13%
Ba 233.527†	5034.6	0.0263	mg/L	0.00027	0.0263	mg/L	0.00027	1.02%
Be 313.107†	-7.5	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	4.85%
Ca 315.886†	3399967.6	22.88	mg/L	0.030	22.88	mg/L	0.030	0.13%
Cd 228.802†	-8.5	0.0001	mg/L	0.00013	0.0001	mg/L	0.00013	116.49%
Co 228.616†	75.9	-0.0009	mg/L	0.00020	-0.0009	mg/L	0.00020	22.07%
Cr 267.716†	184.2	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	20.39%
Cu 324.752†	1043.0	0.0056	mg/L	0.00014	0.0056	mg/L	0.00014	2.54%
Fe 238.204†	41019.2	0.3178	mg/L	0.00037	0.3178	mg/L	0.00037	0.12%
Fe 234.349†	13836.1	0.3329	mg/L	0.00031	0.3329	mg/L	0.00031	0.09%
Mg 279.077†	85038.7	3.863	mg/L	0.0098	3.863	mg/L	0.0098	0.25%
Mn 257.610†	360218.1	0.3591	mg/L	0.00029	0.3591	mg/L	0.00029	0.08%
Mo 202.031†	31.6	0.0008	mg/L	0.00021	0.0008	mg/L	0.00021	27.92%
Na 330.237†	17782.0	37.89	mg/L	0.066	37.89	mg/L	0.066	0.17%
Ni 231.604†	143.9	0.0006	mg/L	0.00003	0.0006	mg/L	0.00003	5.00%
Pb 220.353†	60.9	0.0050	mg/L	0.00083	0.0050	mg/L	0.00083	16.45%

Sb 206.836†	3.0	0.0011 mg/L	0.00003	0.0011 mg/L	0.00003	2.72%
Se 196.026†	7.4	0.0085 mg/L	0.00334	0.0085 mg/L	0.00334	39.31%
Sn 189.927†	50.6	0.0091 mg/L	0.00336	0.0091 mg/L	0.00336	36.83%
Ti 337.279†	1841.6	0.0017 mg/L	0.00014	0.0017 mg/L	0.00014	8.43%
Tl 190.801†	12.3	0.0329 mg/L	0.00216	0.0329 mg/L	0.00216	6.56%
V 292.402†	291.6	0.0008 mg/L	0.00006	0.0008 mg/L	0.00006	6.83%
Zn 213.857†	1734.1	0.0180 mg/L	0.00012	0.0180 mg/L	0.00012	0.68%

Sequence No.: 52  
 Sample ID: 0606346-13  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 44  
 Date Collected: 6/22/2006 7:35:01 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: 0606346-13

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2477761.5	2477761.5			19:36:35
1	Ag 328.068†	-528.5	161.6	0.0007 mg/L	0.0007 mg/L	19:36:40
1	Al 237.313†	-174.7	145.5	0.0098 mg/L	0.0098 mg/L	19:37:00
1	As 188.979†	6.6	5.5	0.0039 mg/L	0.0039 mg/L	19:37:00
1	B 182.528†	31.3	64.5	0.0516 mg/L	0.0516 mg/L	19:37:00
1	Ba 233.527†	4908.9	5000.4	0.0261 mg/L	0.0261 mg/L	19:36:40
1	Be 313.107†	5086.2	-110.3	-0.0001 mg/L	-0.0001 mg/L	19:36:40
1	Ca 315.886†	3480514.2	3432309.0	23.10 mg/L	23.10 mg/L	19:36:35
1	Cd 228.802†	372.4	-24.1	-0.0001 mg/L	-0.0001 mg/L	19:37:00
1	Co 228.616†	-324.8	72.9	-0.0010 mg/L	-0.0010 mg/L	19:37:00
1	Cr 267.716†	1765.2	-20.3	-0.0014 mg/L	-0.0014 mg/L	19:36:40
1	Cu 324.752†	1757.7	278.7	0.0014 mg/L	0.0014 mg/L	19:36:40
1	Fe 238.204†	24023.7	22729.8	0.1728 mg/L	0.1728 mg/L	19:36:40
1	Fe 234.349†	8202.8	7872.2	0.1873 mg/L	0.1873 mg/L	19:36:40
1	Mg 279.077†	87369.7	86233.8	3.917 mg/L	3.917 mg/L	19:36:40
1	Mn 257.610†	298565.6	293846.3	0.2925 mg/L	0.2925 mg/L	19:36:35
1	Mo 202.031†	24.7	16.4	-0.0004 mg/L	-0.0004 mg/L	19:37:00
1	Na 330.237†	19467.9	18057.0	38.46 mg/L	38.46 mg/L	19:36:40
1	Ni 231.604†	465.9	98.0	-0.0003 mg/L	-0.0003 mg/L	19:37:00
1	Pb 220.353†	-82.6	39.3	0.0027 mg/L	0.0027 mg/L	19:37:00
1	Sb 206.836†	69.4	-11.4	-0.0028 mg/L	-0.0028 mg/L	19:37:00
1	Se 196.026†	-2.2	6.2	0.0069 mg/L	0.0069 mg/L	19:37:00
1	Sn 189.927†	118.1	40.9	0.0060 mg/L	0.0060 mg/L	19:37:00
1	Ti 337.279†	1292.8	344.5	-0.0003 mg/L	-0.0003 mg/L	19:36:40
1	Tl 190.801†	-11.8	0.0	0.0208 mg/L	0.0208 mg/L	19:37:00
1	V 292.402†	3913.8	1403.1	0.0054 mg/L	0.0054 mg/L	19:36:40
1	Zn 213.857†	3295.3	2296.9	0.0240 mg/L	0.0240 mg/L	19:37:00
2	Y 360.073	2500573.3	2500573.3			19:37:07
2	Ag 328.068†	-523.5	171.3	0.0007 mg/L	0.0007 mg/L	19:37:12
2	Al 237.313†	-169.7	151.9	0.0105 mg/L	0.0105 mg/L	19:37:32
2	As 188.979†	3.4	2.4	0.0013 mg/L	0.0013 mg/L	19:37:32
2	B 182.528†	32.2	65.1	0.0521 mg/L	0.0521 mg/L	19:37:32
2	Ba 233.527†	4915.3	4962.4	0.0259 mg/L	0.0259 mg/L	19:37:12
2	Be 313.107†	5159.1	-84.9	-0.0001 mg/L	-0.0001 mg/L	19:37:12
2	Ca 315.886†	3503342.8	3423296.3	23.04 mg/L	23.04 mg/L	19:37:07
2	Cd 228.802†	406.2	5.5	0.0003 mg/L	0.0003 mg/L	19:37:32
2	Co 228.616†	-348.0	53.1	-0.0012 mg/L	-0.0012 mg/L	19:37:32
2	Cr 267.716†	1682.1	-117.4	-0.0020 mg/L	-0.0020 mg/L	19:37:12
2	Cu 324.752†	1784.1	288.6	0.0014 mg/L	0.0014 mg/L	19:37:12
2	Fe 238.204†	23999.2	22489.6	0.1709 mg/L	0.1709 mg/L	19:37:12
2	Fe 234.349†	8207.3	7802.7	0.1856 mg/L	0.1856 mg/L	19:37:12
2	Mg 279.077†	87523.1	85597.1	3.889 mg/L	3.889 mg/L	19:37:12
2	Mn 257.610†	300757.0	293301.2	0.2919 mg/L	0.2919 mg/L	19:37:07
2	Mo 202.031†	18.4	10.0	-0.0009 mg/L	-0.0009 mg/L	19:37:32
2	Na 330.237†	19477.7	17891.4	38.11 mg/L	38.11 mg/L	19:37:12
2	Ni 231.604†	464.9	92.9	-0.0003 mg/L	-0.0003 mg/L	19:37:32
2	Pb 220.353†	-74.6	47.9	0.0036 mg/L	0.0036 mg/L	19:37:32
2	Sb 206.836†	68.0	-13.4	-0.0034 mg/L	-0.0034 mg/L	19:37:32
2	Se 196.026†	-1.1	7.3	0.0084 mg/L	0.0084 mg/L	19:37:32
2	Sn 189.927†	128.3	49.8	0.0089 mg/L	0.0089 mg/L	19:37:32
2	Ti 337.279†	1270.9	311.4	-0.0004 mg/L	-0.0004 mg/L	19:37:12
2	Tl 190.801†	7.0	18.5	0.0377 mg/L	0.0377 mg/L	19:37:32



2	V 292.402†	3905.4	1359.8	0.0052 mg/L	0.0052 mg/L	19:37:12
2	Zn 213.857†	3290.1	2262.1	0.0236 mg/L	0.0236 mg/L	19:37:32

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Mean Data: 0606346-13

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 360.073	2489167.4					16130.37	0.65%
Ag 328.068†	166.5	0.0007	mg/L	0.00002	0.0007	0.00002	2.88%
Al 237.313†	148.7	0.0101	mg/L	0.00053	0.0101	0.00053	5.25%
As 188.979†	4.0	0.0026	mg/L	0.00187	0.0026	0.00187	71.84%
B 182.528†	64.8	0.0518	mg/L	0.00034	0.0518	0.00034	0.65%
Ba 233.527†	4981.4	0.0260	mg/L	0.00015	0.0260	0.00015	0.57%
Be 313.107†	-97.6	-0.0001	mg/L	0.00000	-0.0001	0.00000	2.20%
Ca 315.886†	3427802.6	23.07	mg/L	0.043	23.07	0.043	0.19%
Cd 228.802†	-9.3	0.0001	mg/L	0.00026	0.0001	0.00026	237.31%
Co 228.616†	63.0	-0.0011	mg/L	0.00020	-0.0011	0.00020	17.95%
Cr 267.716†	-68.8	-0.0017	mg/L	0.00045	-0.0017	0.00045	26.48%
Cu 324.752†	283.6	0.0014	mg/L	0.00004	0.0014	0.00004	2.80%
Fe 238.204†	22609.7	0.1719	mg/L	0.00135	0.1719	0.00135	0.78%
Fe 234.349†	7837.4	0.1864	mg/L	0.00120	0.1864	0.00120	0.64%
Mg 279.077†	85915.5	3.903	mg/L	0.0205	3.903	0.0205	0.52%
Mn 257.610†	293573.7	0.2922	mg/L	0.00039	0.2922	0.00039	0.13%
Mo 202.031†	13.2	-0.0006	mg/L	0.00035	-0.0006	0.00035	53.50%
Na 330.237†	17974.2	38.29	mg/L	0.245	38.29	0.245	0.64%
Ni 231.604†	95.5	-0.0003	mg/L	0.00006	-0.0003	0.00006	21.41%
Pb 220.353†	43.6	0.0031	mg/L	0.00067	0.0031	0.00067	21.28%
Sb 206.836†	-12.4	-0.0031	mg/L	0.00037	-0.0031	0.00037	11.95%
Se 196.026†	6.8	0.0077	mg/L	0.00107	0.0077	0.00107	13.95%
Sn 189.927†	45.4	0.0075	mg/L	0.00200	0.0075	0.00200	26.78%
Ti 337.279†	328.0	-0.0004	mg/L	0.00003	-0.0004	0.00003	8.71%
Tl 190.801†	9.3	0.0292	mg/L	0.01195	0.0292	0.01195	40.92%
V 292.402†	1381.5	0.0053	mg/L	0.00013	0.0053	0.00013	2.43%
Zn 213.857†	2279.5	0.0238	mg/L	0.00026	0.0238	0.00026	1.11%

Sequence No.: 53

Sample ID: 0606346-14

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 45

Date Collected: 6/22/2006 7:39:10 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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Replicate Data: 0606346-14

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2488911.9	2488911.9			19:40:45
1	Ag 328.068†	-511.2	181.0	0.0008 mg/L	0.0008 mg/L	19:40:50
1	Al 237.313†	-128.6	191.5	0.0131 mg/L	0.0131 mg/L	19:41:10
1	As 188.979†	3.8	2.8	0.0016 mg/L	0.0016 mg/L	19:41:10
1	B 182.528†	47.6	80.4	0.0644 mg/L	0.0644 mg/L	19:41:10
1	Ba 233.527†	4645.5	4719.8	0.0246 mg/L	0.0246 mg/L	19:40:50
1	Be 313.107†	5087.6	-131.4	-0.0001 mg/L	-0.0001 mg/L	19:40:50
1	Ca 315.886†	3582094.9	3516733.3	23.67 mg/L	23.67 mg/L	19:40:45
1	Cd 228.802†	387.7	-10.7	0.0001 mg/L	0.0001 mg/L	19:41:10
1	Co 228.616†	-347.3	52.3	-0.0012 mg/L	-0.0012 mg/L	19:41:10
1	Cr 267.716†	1745.1	-47.8	-0.0016 mg/L	-0.0016 mg/L	19:40:50
1	Cu 324.752†	1780.1	292.8	0.0014 mg/L	0.0014 mg/L	19:40:50
1	Fe 238.204†	38768.6	37112.2	0.2868 mg/L	0.2868 mg/L	19:40:50
1	Fe 234.349†	13083.4	12631.6	0.3035 mg/L	0.3035 mg/L	19:40:50
1	Mg 279.077†	98849.2	97127.4	4.413 mg/L	4.413 mg/L	19:40:50
1	Mn 257.610†	449910.9	441240.5	0.4405 mg/L	0.4405 mg/L	19:40:45
1	Mo 202.031†	25.9	17.5	-0.0003 mg/L	-0.0003 mg/L	19:41:10
1	Na 330.237†	20230.8	18720.6	39.85 mg/L	39.85 mg/L	19:40:50
1	Ni 231.604†	467.7	97.7	-0.0003 mg/L	-0.0003 mg/L	19:41:10
1	Pb 220.353†	-75.9	46.4	0.0034 mg/L	0.0034 mg/L	19:41:10
1	Sb 206.836†	74.1	-7.1	-0.0017 mg/L	-0.0017 mg/L	19:41:10
1	Se 196.026†	3.5	11.9	0.0148 mg/L	0.0148 mg/L	19:41:10
1	Sn 189.927†	124.0	46.2	0.0077 mg/L	0.0077 mg/L	19:41:10
1	Ti 337.279†	1556.2	597.7	0.0000 mg/L	0.0000 mg/L	19:40:50
1	Tl 190.801†	-16.2	-4.3	0.0190 mg/L	0.0190 mg/L	19:41:10

1	V 292.402†	2644.9	139.0	0.0002 mg/L	0.0002 mg/L	19:40:50
1	Zn 213.857†	2105.6	1113.3	0.0113 mg/L	0.0113 mg/L	19:41:10
2	Y 360.073	2483845.2	2483845.2			19:41:16
2	Ag 328.068†	-502.3	188.7	0.0008 mg/L	0.0008 mg/L	19:41:22
2	Al 237.313†	-119.2	200.5	0.0141 mg/L	0.0141 mg/L	19:41:42
2	As 188.979†	2.1	1.1	0.0002 mg/L	0.0002 mg/L	19:41:42
2	B 182.528†	42.2	75.2	0.0602 mg/L	0.0602 mg/L	19:41:42
2	Ba 233.527†	4606.8	4691.0	0.0244 mg/L	0.0244 mg/L	19:41:22
2	Be 313.107†	5049.5	-158.7	-0.0001 mg/L	-0.0001 mg/L	19:41:22
2	Ca 315.886†	3580753.2	3522592.2	23.71 mg/L	23.71 mg/L	19:41:16
2	Cd 228.802†	377.2	-20.3	0.0000 mg/L	0.0000 mg/L	19:41:42
2	Co 228.616†	-339.1	59.6	-0.0011 mg/L	-0.0011 mg/L	19:41:42
2	Cr 267.716†	1796.9	6.8	-0.0013 mg/L	-0.0013 mg/L	19:41:22
2	Cu 324.752†	1797.1	313.2	0.0016 mg/L	0.0016 mg/L	19:41:22
2	Fe 238.204†	38609.4	37033.1	0.2862 mg/L	0.2862 mg/L	19:41:22
2	Fe 234.349†	12947.5	12524.1	0.3008 mg/L	0.3008 mg/L	19:41:22
2	Mg 279.077†	98219.3	96705.3	4.394 mg/L	4.394 mg/L	19:41:22
2	Mn 257.610†	450228.7	442455.2	0.4417 mg/L	0.4417 mg/L	19:41:16
2	Mo 202.031†	18.1	9.9	-0.0009 mg/L	-0.0009 mg/L	19:41:42
2	Na 330.237†	20095.0	18627.5	39.66 mg/L	39.66 mg/L	19:41:22
2	Ni 231.604†	494.5	125.1	0.0002 mg/L	0.0002 mg/L	19:41:42
2	Pb 220.353†	-73.0	49.0	0.0037 mg/L	0.0037 mg/L	19:41:42
2	Sb 206.836†	79.5	-1.6	-0.0001 mg/L	-0.0001 mg/L	19:41:42
2	Se 196.026†	5.3	13.6	0.0172 mg/L	0.0172 mg/L	19:41:42
2	Sn 189.927†	121.9	44.4	0.0071 mg/L	0.0071 mg/L	19:41:42
2	Ti 337.279†	1419.5	466.2	-0.0002 mg/L	-0.0002 mg/L	19:41:22
2	Tl 190.801†	-8.6	3.2	0.0258 mg/L	0.0258 mg/L	19:41:42
2	V 292.402†	2617.1	117.0	0.0001 mg/L	0.0001 mg/L	19:41:22
2	Zn 213.857†	2098.7	1110.7	0.0113 mg/L	0.0113 mg/L	19:41:42

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Mean Data: 0606346-14

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2486378.5						3582.69	0.14%
Ag 328.068†	184.8	0.0008	mg/L	0.00002	0.0008	mg/L	0.00002	2.13%
Al 237.313†	196.0	0.0136	mg/L	0.00073	0.0136	mg/L	0.00073	5.37%
As 188.979†	2.0	0.0009	mg/L	0.00100	0.0009	mg/L	0.00100	106.09%
B 182.528†	77.8	0.0623	mg/L	0.00296	0.0623	mg/L	0.00296	4.74%
Ba 233.527†	4705.4	0.0245	mg/L	0.00011	0.0245	mg/L	0.00011	0.46%
Be 313.107†	-145.1	-0.0001	mg/L	0.00000	-0.0001	mg/L	0.00000	2.25%
Ca 315.886†	3519662.7	23.69	mg/L	0.028	23.69	mg/L	0.028	0.12%
Cd 228.802†	-15.5	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008	209.16%
Co 228.616†	56.0	-0.0012	mg/L	0.00007	-0.0012	mg/L	0.00007	6.08%
Cr 267.716†	-20.5	-0.0014	mg/L	0.00026	-0.0014	mg/L	0.00026	17.75%
Cu 324.752†	303.0	0.0015	mg/L	0.00008	0.0015	mg/L	0.00008	5.32%
Fe 238.204†	37072.7	0.2865	mg/L	0.00044	0.2865	mg/L	0.00044	0.15%
Fe 234.349†	12577.9	0.3022	mg/L	0.00186	0.3022	mg/L	0.00186	0.62%
Mg 279.077†	96916.3	4.403	mg/L	0.0136	4.403	mg/L	0.0136	0.31%
Mn 257.610†	441847.8	0.4411	mg/L	0.00086	0.4411	mg/L	0.00086	0.20%
Mo 202.031†	13.7	-0.0006	mg/L	0.00041	-0.0006	mg/L	0.00041	68.08%
Na 330.237†	18674.0	39.75	mg/L	0.138	39.75	mg/L	0.138	0.35%
Ni 231.604†	111.4	0.0000	mg/L	0.00034	0.0000	mg/L	0.00034	>999.9%
Pb 220.353†	47.7	0.0036	mg/L	0.00021	0.0036	mg/L	0.00021	5.77%
Sb 206.836†	-4.4	-0.0009	mg/L	0.00107	-0.0009	mg/L	0.00107	119.38%
Se 196.026†	12.8	0.0160	mg/L	0.00171	0.0160	mg/L	0.00171	10.63%
Sn 189.927†	45.3	0.0074	mg/L	0.00040	0.0074	mg/L	0.00040	5.36%
Ti 337.279†	531.9	-0.0001	mg/L	0.00012	-0.0001	mg/L	0.00012	143.71%
Tl 190.801†	-0.5	0.0224	mg/L	0.00484	0.0224	mg/L	0.00484	21.60%
V 292.402†	128.0	0.0002	mg/L	0.00006	0.0002	mg/L	0.00006	36.48%
Zn 213.857†	1112.0	0.0113	mg/L	0.00002	0.0113	mg/L	0.00002	0.20%

Sequence No.: 54  
Sample ID: 0606346-15  
Analyst:  
Initial Sample Wt:  
Dilution:

Autosampler Location: 46  
Date Collected: 6/22/2006 7:43:20 PM  
Data Type: Original  
Initial Sample Vol:  
Sample Prep Vol:

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Replicate Data: 0606346-15

Repl#	Analyte	Net		Corrected		Calib.		Sample		Analysis Time
		Intensity		Intensity		Conc.	Units	Conc.	Units	
1	Y 360.073	2504295.7		2504295.7						19:44:55
1	Ag 328.068†	-543.1		152.9		0.0007	mg/L	0.0007	mg/L	19:45:00
1	Al 237.313†	-70.9		248.7		0.0202	mg/L	0.0202	mg/L	19:45:20
1	As 188.979†	3.4		2.4		0.0013	mg/L	0.0013	mg/L	19:45:20
1	B 182.528†	22.5		55.6		0.0444	mg/L	0.0444	mg/L	19:45:20
1	Ba 233.527†	4995.6		5033.7		0.0263	mg/L	0.0263	mg/L	19:45:00
1	Be 313.107†	5026.3		-222.0		-0.0001	mg/L	-0.0001	mg/L	19:45:00
1	Ca 315.886†	3500136.3		3415071.9		22.99	mg/L	22.99	mg/L	19:44:55
1	Cd 228.802†	373.4		-27.1		-0.0001	mg/L	-0.0001	mg/L	19:45:20
1	Co 228.616†	-328.1		73.2		-0.0010	mg/L	-0.0010	mg/L	19:45:20
1	Cr 267.716†	1838.7		33.1		-0.0011	mg/L	-0.0011	mg/L	19:45:00
1	Cu 324.752†	1946.9		445.0		0.0023	mg/L	0.0023	mg/L	19:45:00
1	Fe 238.204†	36878.9		35032.7		0.2703	mg/L	0.2703	mg/L	19:45:00
1	Fe 234.349†	12407.8		11892.9		0.2854	mg/L	0.2854	mg/L	19:45:00
1	Mg 279.077†	88162.2		86094.0		3.911	mg/L	3.911	mg/L	19:45:00
1	Mn 257.610†	403470.3		393171.7		0.3922	mg/L	0.3922	mg/L	19:44:55
1	Mo 202.031†	16.9		8.5		-0.0010	mg/L	-0.0010	mg/L	19:45:20
1	Na 330.237†	19393.8		17781.1		37.88	mg/L	37.88	mg/L	19:45:00
1	Ni 231.604†	470.1		97.3		-0.0003	mg/L	-0.0003	mg/L	19:45:20
1	Pb 220.353†	-73.2		49.5		0.0038	mg/L	0.0038	mg/L	19:45:20
1	Sb 206.836†	71.2		-10.4		-0.0026	mg/L	-0.0026	mg/L	19:45:20
1	Se 196.026†	-0.8		7.6		0.0089	mg/L	0.0089	mg/L	19:45:20
1	Sn 189.927†	122.6		44.1		0.0071	mg/L	0.0071	mg/L	19:45:20
1	Ti 337.279†	2003.8		1025.3		0.0006	mg/L	0.0006	mg/L	19:45:00
1	Tl 190.801†	-14.6		-2.6		0.0198	mg/L	0.0198	mg/L	19:45:20
1	V 292.402†	2777.9		253.0		0.0007	mg/L	0.0007	mg/L	19:45:00
1	Zn 213.857†	2304.6		1294.9		0.0132	mg/L	0.0132	mg/L	19:45:20
2	Y 360.073	2488776.4		2488776.4						19:45:27
2	Ag 328.068†	-475.6		216.0		0.0009	mg/L	0.0009	mg/L	19:45:32
2	Al 237.313†	-87.6		231.8		0.0183	mg/L	0.0183	mg/L	19:45:52
2	As 188.979†	4.0		3.0		0.0018	mg/L	0.0018	mg/L	19:45:52
2	B 182.528†	29.4		62.5		0.0500	mg/L	0.0500	mg/L	19:45:52
2	Ba 233.527†	5038.3		5106.1		0.0267	mg/L	0.0267	mg/L	19:45:32
2	Be 313.107†	5077.3		-141.3		-0.0001	mg/L	-0.0001	mg/L	19:45:32
2	Ca 315.886†	3485854.2		3422352.0		23.04	mg/L	23.04	mg/L	19:45:27
2	Cd 228.802†	383.9		-14.5		0.0000	mg/L	0.0000	mg/L	19:45:52
2	Co 228.616†	-331.0		68.3		-0.0010	mg/L	-0.0010	mg/L	19:45:52
2	Cr 267.716†	1777.3		-16.0		-0.0014	mg/L	-0.0014	mg/L	19:45:32
2	Cu 324.752†	1990.8		500.0		0.0026	mg/L	0.0026	mg/L	19:45:32
2	Fe 238.204†	37124.1		35498.3		0.2740	mg/L	0.2740	mg/L	19:45:32
2	Fe 234.349†	12449.1		12009.1		0.2883	mg/L	0.2883	mg/L	19:45:32
2	Mg 279.077†	88589.3		87050.6		3.955	mg/L	3.955	mg/L	19:45:32
2	Mn 257.610†	401916.3		394101.6		0.3932	mg/L	0.3932	mg/L	19:45:27
2	Mo 202.031†	16.6		8.3		-0.0010	mg/L	-0.0010	mg/L	19:45:52
2	Na 330.237†	19364.8		17870.7		38.07	mg/L	38.07	mg/L	19:45:32
2	Ni 231.604†	475.4		105.4		-0.0001	mg/L	-0.0001	mg/L	19:45:52
2	Pb 220.353†	-84.8		37.5		0.0025	mg/L	0.0025	mg/L	19:45:52
2	Sb 206.836†	83.0		1.7		0.0008	mg/L	0.0008	mg/L	19:45:52
2	Se 196.026†	-6.2		2.4		0.0015	mg/L	0.0015	mg/L	19:45:52
2	Sn 189.927†	127.5		49.7		0.0088	mg/L	0.0088	mg/L	19:45:52
2	Ti 337.279†	1977.2		1011.4		0.0006	mg/L	0.0006	mg/L	19:45:32
2	Tl 190.801†	-8.4		3.4		0.0253	mg/L	0.0253	mg/L	19:45:52
2	V 292.402†	2674.6		168.4		0.0003	mg/L	0.0003	mg/L	19:45:32
2	Zn 213.857†	2299.0		1303.5		0.0133	mg/L	0.0133	mg/L	19:45:52

## Mean Data: 0606346-15

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2496536.0						10973.77	0.44%
Ag 328.068†	184.5	0.0008	mg/L	0.00013	0.0008	mg/L	0.00013	17.41%
Al 237.313†	240.2	0.0192	mg/L	0.00137	0.0192	mg/L	0.00137	7.14%
As 188.979†	2.7	0.0015	mg/L	0.00037	0.0015	mg/L	0.00037	24.03%
B 182.528†	59.1	0.0472	mg/L	0.00397	0.0472	mg/L	0.00397	8.43%
Ba 233.527†	5069.9	0.0265	mg/L	0.00028	0.0265	mg/L	0.00028	1.06%
Be 313.107†	-181.7	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	6.41%
Ca 315.886†	3418711.9	23.01	mg/L	0.035	23.01	mg/L	0.035	0.15%
Cd 228.802†	-20.8	0.0000	mg/L	0.00011	0.0000	mg/L	0.00011	387.94%
Co 228.616†	70.7	-0.0010	mg/L	0.00005	-0.0010	mg/L	0.00005	4.90%

Cr 267.716†	8.5	-0.0012 mg/L	0.00023	-0.0012 mg/L	0.00023	18.69%
Cu 324.752†	472.5	0.0024 mg/L	0.00022	0.0024 mg/L	0.00022	8.84%
Fe 238.204†	35265.5	0.2722 mg/L	0.00261	0.2722 mg/L	0.00261	0.96%
Fe 234.349†	11951.0	0.2868 mg/L	0.00200	0.2868 mg/L	0.00200	0.70%
Mg 279.077†	86572.3	3.933 mg/L	0.0307	3.933 mg/L	0.0307	0.78%
Mn 257.610†	393636.7	0.3927 mg/L	0.00066	0.3927 mg/L	0.00066	0.17%
Mo 202.031†	8.4	-0.0010 mg/L	0.00001	-0.0010 mg/L	0.00001	1.00%
Na 330.237†	17825.9	37.98 mg/L	0.133	37.98 mg/L	0.133	0.35%
Ni 231.604†	101.4	-0.0002 mg/L	0.00010	-0.0002 mg/L	0.00010	52.71%
Pb 220.353†	43.5	0.0031 mg/L	0.00093	0.0031 mg/L	0.00093	29.71%
Sb 206.836†	-4.4	-0.0009 mg/L	0.00234	-0.0009 mg/L	0.00234	261.10%
Se 196.026†	5.0	0.0052 mg/L	0.00522	0.0052 mg/L	0.00522	100.76%
Sn 189.927†	46.9	0.0079 mg/L	0.00124	0.0079 mg/L	0.00124	15.60%
Ti 337.279†	1018.4	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	2.34%
Tl 190.801†	0.4	0.0226 mg/L	0.00384	0.0226 mg/L	0.00384	17.02%
V 292.402†	210.7	0.0005 mg/L	0.00025	0.0005 mg/L	0.00025	48.53%
Zn 213.857†	1299.2	0.0133 mg/L	0.00006	0.0133 mg/L	0.00006	0.48%

Sequence No.: 55  
 Sample ID: 0606346-01DIS  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 47  
 Date Collected: 6/22/2006 7:47:31 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 0606346-01DIS

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2502510.9	2502510.9			19:49:05
1	Ag 328.068†	-605.6	91.5	0.0005 mg/L	0.0005 mg/L	19:49:10
1	Al 237.313†	-273.5	50.6	0.0016 mg/L	0.0016 mg/L	19:49:30
1	As 188.979†	3.3	2.3	0.0012 mg/L	0.0012 mg/L	19:49:30
1	B 182.528†	18.8	52.1	0.0415 mg/L	0.0415 mg/L	19:49:30
1	Ba 233.527†	3273.8	3354.5	0.0171 mg/L	0.0171 mg/L	19:49:30
1	Be 313.107†	5052.7	-192.7	-0.0001 mg/L	-0.0001 mg/L	19:49:10
1	Ca 315.886†	3311110.8	3232779.4	21.76 mg/L	21.76 mg/L	19:49:05
1	Cd 228.802†	376.9	-23.4	-0.0001 mg/L	-0.0001 mg/L	19:49:30
1	Co 228.616†	-310.7	89.8	-0.0007 mg/L	-0.0007 mg/L	19:49:30
1	Cr 267.716†	1667.6	-132.9	-0.0021 mg/L	-0.0021 mg/L	19:49:10
1	Cu 324.752†	1570.4	78.5	0.0003 mg/L	0.0003 mg/L	19:49:10
1	Fe 238.204†	4575.9	3489.4	0.0203 mg/L	0.0203 mg/L	19:49:10
1	Fe 234.349†	1949.9	1681.3	0.0361 mg/L	0.0361 mg/L	19:49:30
1	Mg 279.077†	78627.9	76837.7	3.490 mg/L	3.490 mg/L	19:49:10
1	Mn 257.610†	30855.7	29305.2	0.0268 mg/L	0.0268 mg/L	19:49:10
1	Mo 202.031†	18.0	9.6	-0.0009 mg/L	-0.0009 mg/L	19:49:30
1	Na 330.237†	18984.2	17394.3	37.07 mg/L	37.07 mg/L	19:49:10
1	Ni 231.604†	423.6	52.2	-0.0011 mg/L	-0.0011 mg/L	19:49:30
1	Pb 220.353†	-80.0	42.7	0.0030 mg/L	0.0030 mg/L	19:49:30
1	Sb 206.836†	77.4	-4.3	-0.0009 mg/L	-0.0009 mg/L	19:49:30
1	Se 196.026†	0.6	9.0	0.0107 mg/L	0.0107 mg/L	19:49:30
1	Sn 189.927†	134.9	56.1	0.0109 mg/L	0.0109 mg/L	19:49:30
1	Ti 337.279†	1132.5	175.2	-0.0006 mg/L	-0.0006 mg/L	19:49:10
1	Tl 190.801†	-13.3	-1.3	0.0159 mg/L	0.0159 mg/L	19:49:30
1	V 292.402†	2452.2	-63.4	-0.0006 mg/L	-0.0006 mg/L	19:49:10
1	Zn 213.857†	2668.9	1652.6	0.0171 mg/L	0.0171 mg/L	19:49:30
2	Y 360.073	2494870.1	2494870.1			19:49:36
2	Ag 328.068†	-633.4	62.4	0.0004 mg/L	0.0004 mg/L	19:49:42
2	Al 237.313†	-276.5	46.8	0.0012 mg/L	0.0012 mg/L	19:50:02
2	As 188.979†	0.5	-0.4	-0.0011 mg/L	-0.0011 mg/L	19:50:02
2	B 182.528†	19.5	52.8	0.0421 mg/L	0.0421 mg/L	19:50:02
2	Ba 233.527†	3276.7	3367.1	0.0172 mg/L	0.0172 mg/L	19:50:02
2	Be 313.107†	4925.2	-302.6	-0.0002 mg/L	-0.0002 mg/L	19:49:42
2	Ca 315.886†	3309738.3	3241344.4	21.82 mg/L	21.82 mg/L	19:49:36
2	Cd 228.802†	371.4	-27.6	-0.0001 mg/L	-0.0001 mg/L	19:50:02
2	Co 228.616†	-343.1	57.2	-0.0012 mg/L	-0.0012 mg/L	19:50:02
2	Cr 267.716†	1661.2	-134.2	-0.0021 mg/L	-0.0021 mg/L	19:49:42
2	Cu 324.752†	1557.8	70.8	0.0002 mg/L	0.0002 mg/L	19:49:42
2	Fe 238.204†	4601.6	3528.3	0.0206 mg/L	0.0206 mg/L	19:49:42
2	Fe 234.349†	1954.7	1691.8	0.0364 mg/L	0.0364 mg/L	19:50:02
2	Mg 279.077†	79227.6	77661.0	3.527 mg/L	3.527 mg/L	19:49:42

2	Mn 257.610†	31019.6	29558.2	0.0271 mg/L	0.0271 mg/L	19:49:42
2	Mo 202.031†	20.9	12.5	-0.0007 mg/L	-0.0007 mg/L	19:50:02
2	Na 330.237†	19119.3	17583.6	37.47 mg/L	37.47 mg/L	19:49:42
2	Ni 231.604†	432.4	62.1	-0.0009 mg/L	-0.0009 mg/L	19:50:02
2	Pb 220.353†	-111.0	12.1	-0.0003 mg/L	-0.0003 mg/L	19:50:02
2	Sb 206.836†	83.9	2.4	0.0010 mg/L	0.0010 mg/L	19:50:02
2	Se 196.026†	-7.0	1.5	0.0003 mg/L	0.0003 mg/L	19:50:02
2	Sn 189.927†	120.9	42.9	0.0067 mg/L	0.0067 mg/L	19:50:02
2	Ti 337.279†	1121.1	167.4	-0.0006 mg/L	-0.0006 mg/L	19:49:42
2	Tl 190.801†	-6.8	5.0	0.0216 mg/L	0.0216 mg/L	19:50:02
2	V 292.402†	2388.5	-118.5	-0.0008 mg/L	-0.0008 mg/L	19:49:42
2	Zn 213.857†	2651.0	1643.0	0.0170 mg/L	0.0170 mg/L	19:50:02

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Mean Data: 0606346-01DIS

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
Y 360.073	2498690.5						
Ag 328.068†	76.9	0.0004 mg/L	0.00006	0.0004 mg/L	5402.91	0.00006	0.22%
Al 237.313†	48.7	0.0014 mg/L	0.00032	0.0014 mg/L	0.00032	0.00032	13.86%
As 188.979†	0.9	0.0001 mg/L	0.00161	0.0001 mg/L	0.00161	0.00161	>999.9%
B 182.528†	52.4	0.0418 mg/L	0.00040	0.0418 mg/L	0.00040	0.00040	0.95%
Ba 233.527†	3360.8	0.0171 mg/L	0.00005	0.0171 mg/L	0.00005	0.00005	0.29%
Be 313.107†	-247.6	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	0.00001	8.09%
Ca 315.886†	3237061.9	21.79 mg/L	0.041	21.79 mg/L	0.041	0.041	0.19%
Cd 228.802†	-25.5	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	0.00003	41.22%
Co 228.616†	73.5	-0.0009 mg/L	0.00033	-0.0009 mg/L	0.00033	0.00033	34.35%
Cr 267.716†	-133.5	-0.0021 mg/L	0.00001	-0.0021 mg/L	0.00001	0.00001	0.30%
Cu 324.752†	74.6	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	0.00003	12.88%
Fe 238.204†	3508.9	0.0204 mg/L	0.00022	0.0204 mg/L	0.00022	0.00022	1.07%
Fe 234.349†	1686.6	0.0363 mg/L	0.00018	0.0363 mg/L	0.00018	0.00018	0.50%
Mg 279.077†	77249.4	3.508 mg/L	0.0265	3.508 mg/L	0.0265	0.0265	0.75%
Mn 257.610†	29431.7	0.0270 mg/L	0.00018	0.0270 mg/L	0.00018	0.00018	0.67%
Mo 202.031†	11.1	-0.0008 mg/L	0.00016	-0.0008 mg/L	0.00016	0.00016	19.22%
Na 330.237†	17488.9	37.27 mg/L	0.280	37.27 mg/L	0.280	0.280	0.75%
Ni 231.604†	57.1	-0.0010 mg/L	0.00012	-0.0010 mg/L	0.00012	0.00012	12.70%
Pb 220.353†	27.4	0.0014 mg/L	0.00239	0.0014 mg/L	0.00239	0.00239	175.42%
Sb 206.836†	-0.9	0.0001 mg/L	0.00129	0.0001 mg/L	0.00129	0.00129	>999.9%
Se 196.026†	5.3	0.0055 mg/L	0.00738	0.0055 mg/L	0.00738	0.00738	133.43%
Sn 189.927†	49.5	0.0088 mg/L	0.00296	0.0088 mg/L	0.00296	0.00296	33.83%
Ti 337.279†	171.3	-0.0006 mg/L	0.00001	-0.0006 mg/L	0.00001	0.00001	1.30%
Tl 190.801†	1.9	0.0187 mg/L	0.00407	0.0187 mg/L	0.00407	0.00407	21.72%
V 292.402†	-91.0	-0.0007 mg/L	0.00016	-0.0007 mg/L	0.00016	0.00016	21.76%
Zn 213.857†	1647.8	0.0170 mg/L	0.00007	0.0170 mg/L	0.00007	0.00007	0.43%

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Sequence No.: 56

Sample ID: 0606346-02DIS

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 48

Date Collected: 6/22/2006 7:51:41 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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Replicate Data: 0606346-02DIS

Repl#	Analyte	Net		Calib. Conc. Units	Sample Conc. Units	Analysis Time
		Intensity	Corrected Intensity			
1	Y 360.073	2503267.0	2503267.0			19:53:11
1	Ag 328.068†	-569.2	127.2	0.0006 mg/L	0.0006 mg/L	19:53:17
1	Al 237.313†	-285.9	38.6	-0.0001 mg/L	-0.0001 mg/L	19:53:37
1	As 188.979†	4.0	3.0	0.0018 mg/L	0.0018 mg/L	19:53:37
1	B 182.528†	20.8	53.9	0.0430 mg/L	0.0430 mg/L	19:53:37
1	Ba 233.527†	6241.0	6252.4	0.0330 mg/L	0.0330 mg/L	19:53:17
1	Be 313.107†	5015.8	-230.3	-0.0001 mg/L	-0.0001 mg/L	19:53:17
1	Ca 315.886†	3457430.7	3374753.9	22.72 mg/L	22.72 mg/L	19:53:11
1	Cd 228.802†	388.4	-12.3	0.0001 mg/L	0.0001 mg/L	19:53:37
1	Co 228.616†	-363.1	38.7	-0.0014 mg/L	-0.0014 mg/L	19:53:37
1	Cr 267.716†	1665.8	-135.1	-0.0021 mg/L	-0.0021 mg/L	19:53:17
1	Cu 324.752†	1503.6	12.7	-0.0001 mg/L	-0.0001 mg/L	19:53:17
1	Fe 238.204†	4627.9	3538.9	0.0207 mg/L	0.0207 mg/L	19:53:17
1	Fe 234.349†	1961.1	1691.6	0.0364 mg/L	0.0364 mg/L	19:53:37
1	Mg 279.077†	80947.2	79080.4	3.592 mg/L	3.592 mg/L	19:53:17

1	Mn 257.610†	110618.3	107222.7	0.1051 mg/L	0.1051 mg/L	19:53:17
1	Mo 202.031†	15.7	7.4	-0.0011 mg/L	-0.0011 mg/L	19:53:37
1	Na 330.237†	18980.6	17385.1	37.05 mg/L	37.05 mg/L	19:53:17
1	Ni 231.604†	436.7	64.9	-0.0008 mg/L	-0.0008 mg/L	19:53:37
1	Pb 220.353†	-86.2	36.7	0.0024 mg/L	0.0024 mg/L	19:53:37
1	Sb 206.836†	78.4	-3.3	-0.0006 mg/L	-0.0006 mg/L	19:53:37
1	Se 196.026†	-5.8	2.8	0.0021 mg/L	0.0021 mg/L	19:53:37
1	Sn 189.927†	128.1	49.5	0.0088 mg/L	0.0088 mg/L	19:53:37
1	Ti 337.279†	1115.6	158.3	-0.0006 mg/L	-0.0006 mg/L	19:53:17
1	Tl 190.801†	-12.5	-0.6	0.0176 mg/L	0.0176 mg/L	19:53:37
1	V 292.402†	2334.2	-179.4	-0.0011 mg/L	-0.0011 mg/L	19:53:17
1	Zn 213.857†	1938.3	938.0	0.0094 mg/L	0.0094 mg/L	19:53:37
2	Y 360.073	2506899.6	2506899.6			19:53:43
2	Ag 328.068†	-538.5	158.0	0.0007 mg/L	0.0007 mg/L	19:53:48
2	Al 237.313†	-303.3	22.0	-0.0020 mg/L	-0.0020 mg/L	19:54:08
2	As 188.979†	4.1	3.0	0.0018 mg/L	0.0018 mg/L	19:54:08
2	B 182.528†	10.2	43.6	0.0347 mg/L	0.0347 mg/L	19:54:08
2	Ba 233.527†	6315.1	6315.9	0.0334 mg/L	0.0334 mg/L	19:53:48
2	Be 313.107†	5002.3	-250.5	-0.0002 mg/L	-0.0002 mg/L	19:53:48
2	Ca 315.886†	3457767.7	3370188.1	22.68 mg/L	22.68 mg/L	19:53:43
2	Cd 228.802†	355.9	-44.5	-0.0003 mg/L	-0.0003 mg/L	19:54:08
2	Co 228.616†	-344.0	57.9	-0.0012 mg/L	-0.0012 mg/L	19:54:08
2	Cr 267.716†	1675.1	-128.4	-0.0021 mg/L	-0.0021 mg/L	19:53:48
2	Cu 324.752†	1525.5	32.0	0.0000 mg/L	0.0000 mg/L	19:53:48
2	Fe 238.204†	4665.5	3569.0	0.0209 mg/L	0.0209 mg/L	19:53:48
2	Fe 234.349†	1941.4	1669.7	0.0359 mg/L	0.0359 mg/L	19:54:08
2	Mg 279.077†	81484.2	79489.7	3.610 mg/L	3.610 mg/L	19:53:48
2	Mn 257.610†	111246.2	107678.6	0.1055 mg/L	0.1055 mg/L	19:53:48
2	Mo 202.031†	5.5	-2.6	-0.0019 mg/L	-0.0019 mg/L	19:54:08
2	Na 330.237†	19003.0	17380.1	37.04 mg/L	37.04 mg/L	19:53:48
2	Ni 231.604†	439.7	67.1	-0.0008 mg/L	-0.0008 mg/L	19:54:08
2	Pb 220.353†	-87.9	35.1	0.0022 mg/L	0.0022 mg/L	19:54:08
2	Sb 206.836†	75.3	-6.5	-0.0015 mg/L	-0.0015 mg/L	19:54:08
2	Se 196.026†	-0.1	8.3	0.0098 mg/L	0.0098 mg/L	19:54:08
2	Sn 189.927†	132.9	54.0	0.0102 mg/L	0.0102 mg/L	19:54:08
2	Ti 337.279†	1150.6	190.9	-0.0005 mg/L	-0.0005 mg/L	19:53:48
2	Tl 190.801†	-6.9	5.0	0.0227 mg/L	0.0227 mg/L	19:54:08
2	V 292.402†	2318.2	-198.4	-0.0012 mg/L	-0.0012 mg/L	19:53:48
2	Zn 213.857†	1924.8	922.0	0.0092 mg/L	0.0092 mg/L	19:54:08

## Mean Data: 0606346-02DIS

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2505083.3				2568.64	0.10%
Ag 328.068†	142.6	0.0006 mg/L	0.00006	0.0006 mg/L	0.00006	10.17%
Al 237.313†	30.3	-0.0010 mg/L	0.00132	-0.0010 mg/L	0.00132	127.19%
As 188.979†	3.0	0.0018 mg/L	0.00003	0.0018 mg/L	0.00003	1.51%
B 182.528†	48.8	0.0389 mg/L	0.00589	0.0389 mg/L	0.00589	15.16%
Ba 233.527†	6284.1	0.0332 mg/L	0.00025	0.0332 mg/L	0.00025	0.75%
Be 313.107†	-240.4	-0.0002 mg/L	0.00000	-0.0002 mg/L	0.00000	1.50%
Ca 315.886†	3372471.0	22.70 mg/L	0.022	22.70 mg/L	0.022	0.10%
Cd 228.802†	-28.4	-0.0001 mg/L	0.00027	-0.0001 mg/L	0.00027	240.26%
Co 228.616†	48.3	-0.0013 mg/L	0.00019	-0.0013 mg/L	0.00019	14.66%
Cr 267.716†	-131.7	-0.0021 mg/L	0.00003	-0.0021 mg/L	0.00003	1.49%
Cu 324.752†	22.3	-0.0001 mg/L	0.00008	-0.0001 mg/L	0.00008	131.69%
Fe 238.204†	3554.0	0.0208 mg/L	0.00017	0.0208 mg/L	0.00017	0.81%
Fe 234.349†	1680.7	0.0361 mg/L	0.00038	0.0361 mg/L	0.00038	1.05%
Mg 279.077†	79285.1	3.601 mg/L	0.0132	3.601 mg/L	0.0132	0.37%
Mn 257.610†	107450.7	0.1053 mg/L	0.00032	0.1053 mg/L	0.00032	0.31%
Mo 202.031†	2.4	-0.0015 mg/L	0.00054	-0.0015 mg/L	0.00054	36.30%
Na 330.237†	17382.6	37.05 mg/L	0.007	37.05 mg/L	0.007	0.02%
Ni 231.604†	66.0	-0.0008 mg/L	0.00003	-0.0008 mg/L	0.00003	3.42%
Pb 220.353†	35.9	0.0023 mg/L	0.00012	0.0023 mg/L	0.00012	5.33%
Sb 206.836†	-4.9	-0.0010 mg/L	0.00062	-0.0010 mg/L	0.00062	59.86%
Se 196.026†	5.6	0.0059 mg/L	0.00544	0.0059 mg/L	0.00544	91.70%
Sn 189.927†	51.8	0.0095 mg/L	0.00101	0.0095 mg/L	0.00101	10.67%
Ti 337.279†	174.6	-0.0006 mg/L	0.00003	-0.0006 mg/L	0.00003	5.46%
Tl 190.801†	2.2	0.0201 mg/L	0.00358	0.0201 mg/L	0.00358	17.75%
V 292.402†	-188.9	-0.0011 mg/L	0.00005	-0.0011 mg/L	0.00005	4.81%
Zn 213.857†	930.0	0.0093 mg/L	0.00012	0.0093 mg/L	0.00012	1.30%

Sequence No.: 57  
 Sample ID: CCV  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 3  
 Date Collected: 6/22/2006 7:55:44 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2507503.1	2507503.1			19:57:18
1	Ag 328.068†	84675.8	83270.3	0.2480 mg/L	0.2480 mg/L	19:57:23
1	Al 237.313†	22463.8	22227.5	2.458 mg/L	2.458 mg/L	19:57:23
1	As 188.979†	610.5	594.5	0.4976 mg/L	0.4976 mg/L	19:57:44
1	B 182.528†	597.0	615.9	0.4968 mg/L	0.4968 mg/L	19:57:44
1	Ba 233.527†	91846.4	89735.7	0.4926 mg/L	0.4926 mg/L	19:57:23
1	Be 313.107†	326766.5	313574.9	0.0498 mg/L	0.0498 mg/L	19:57:18
1	Ca 315.886†	761963.5	740074.8	4.970 mg/L	4.970 mg/L	19:57:18
1	Cd 228.802†	21437.7	20517.1	0.2445 mg/L	0.2445 mg/L	19:57:23
1	Co 228.616†	35778.1	35289.0	0.4940 mg/L	0.4940 mg/L	19:57:23
1	Cr 267.716†	78473.7	74775.2	0.4940 mg/L	0.4940 mg/L	19:57:23
1	Cu 324.752†	92286.3	88553.4	0.4909 mg/L	0.4909 mg/L	19:57:23
1	Fe 238.204†	319606.7	310739.9	2.457 mg/L	2.457 mg/L	19:57:23
1	Fe 234.349†	103553.6	100774.8	2.451 mg/L	2.451 mg/L	19:57:23
1	Mg 279.077†	110534.3	107804.1	4.894 mg/L	4.894 mg/L	19:57:23
1	Mn 257.610†	515487.5	501921.6	0.5015 mg/L	0.5015 mg/L	19:57:18
1	Mo 202.031†	6656.9	6484.7	0.4946 mg/L	0.4946 mg/L	19:57:44
1	Na 330.237†	12737.2	11264.4	24.23 mg/L	24.23 mg/L	19:57:23
1	Ni 231.604†	29208.0	28125.7	0.4925 mg/L	0.4925 mg/L	19:57:23
1	Pb 220.353†	4472.7	4483.3	0.4942 mg/L	0.4942 mg/L	19:57:44
1	Sb 206.836†	1916.8	1789.6	0.4854 mg/L	0.4854 mg/L	19:57:44
1	Se 196.026†	722.1	712.8	0.9956 mg/L	0.9956 mg/L	19:57:44
1	Sn 189.927†	1673.1	1556.2	0.4849 mg/L	0.4849 mg/L	19:57:44
1	Ti 337.279†	390741.1	380170.4	0.5045 mg/L	0.5045 mg/L	19:57:18
1	Tl 190.801†	537.6	536.0	0.5059 mg/L	0.5059 mg/L	19:57:44
1	V 292.402†	126957.7	121365.9	0.4980 mg/L	0.4980 mg/L	19:57:23
1	Zn 213.857†	47907.3	45769.8	0.4878 mg/L	0.4878 mg/L	19:57:23
2	Y 360.073	2486420.8	2486420.8			19:57:50
2	Ag 328.068†	85271.5	84556.4	0.2518 mg/L	0.2518 mg/L	19:57:56
2	Al 237.313†	22767.4	22711.9	2.511 mg/L	2.511 mg/L	19:57:56
2	As 188.979†	604.8	594.0	0.4971 mg/L	0.4971 mg/L	19:58:16
2	B 182.528†	591.2	615.2	0.4963 mg/L	0.4963 mg/L	19:58:16
2	Ba 233.527†	92358.8	90999.3	0.4996 mg/L	0.4996 mg/L	19:57:56
2	Be 313.107†	325466.8	314998.8	0.0500 mg/L	0.0500 mg/L	19:57:50
2	Ca 315.886†	759093.9	743553.6	4.993 mg/L	4.993 mg/L	19:57:50
2	Cd 228.802†	21495.6	20751.3	0.2473 mg/L	0.2473 mg/L	19:57:56
2	Co 228.616†	35923.8	35728.2	0.5002 mg/L	0.5002 mg/L	19:57:56
2	Cr 267.716†	78987.4	75929.5	0.5016 mg/L	0.5016 mg/L	19:57:56
2	Cu 324.752†	92654.3	89678.6	0.4971 mg/L	0.4971 mg/L	19:57:56
2	Fe 238.204†	321357.7	315105.2	2.491 mg/L	2.491 mg/L	19:57:56
2	Fe 234.349†	104190.9	102258.0	2.487 mg/L	2.487 mg/L	19:57:56
2	Mg 279.077†	111188.7	109361.8	4.964 mg/L	4.964 mg/L	19:57:56
2	Mn 257.610†	513079.5	503816.0	0.5034 mg/L	0.5034 mg/L	19:57:50
2	Mo 202.031†	6671.9	6554.6	0.5000 mg/L	0.5000 mg/L	19:58:16
2	Na 330.237†	12848.9	11479.6	24.68 mg/L	24.68 mg/L	19:57:56
2	Ni 231.604†	29394.0	28550.2	0.4999 mg/L	0.4999 mg/L	19:57:56
2	Pb 220.353†	4505.2	4552.2	0.5018 mg/L	0.5018 mg/L	19:58:16
2	Sb 206.836†	1920.0	1808.7	0.4905 mg/L	0.4905 mg/L	19:58:16
2	Se 196.026†	723.9	720.5	1.006 mg/L	1.006 mg/L	19:58:16
2	Sn 189.927†	1678.7	1575.5	0.4910 mg/L	0.4910 mg/L	19:58:16
2	Ti 337.279†	388726.9	381420.6	0.5062 mg/L	0.5062 mg/L	19:57:50
2	Tl 190.801†	558.0	560.5	0.5282 mg/L	0.5282 mg/L	19:58:16
2	V 292.402†	127808.5	123252.6	0.5057 mg/L	0.5057 mg/L	19:57:56
2	Zn 213.857†	48182.9	46437.1	0.4949 mg/L	0.4949 mg/L	19:57:56

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
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Y 360.073	2496961.9					14907.44	0.60%
Ag 328.068†	83913.3	0.2499 mg/L	0.00271	0.2499 mg/L		0.00271	1.08%
		QC value within limits for Ag 328.068 Recovery = 99.95%					
Al 237.313†	22469.7	2.484 mg/L	0.0380	2.484 mg/L		0.0380	1.53%
		QC value within limits for Al 237.313 Recovery = 99.38%					
As 188.979†	594.2	0.4974 mg/L	0.00031	0.4974 mg/L		0.00031	0.06%
		QC value within limits for As 188.979 Recovery = 99.47%					
B 182.528†	615.5	0.4965 mg/L	0.00040	0.4965 mg/L		0.00040	0.08%
		QC value within limits for B 182.528 Recovery = 99.31%					
Ba 233.527†	90367.5	0.4961 mg/L	0.00492	0.4961 mg/L		0.00492	0.99%
		QC value within limits for Ba 233.527 Recovery = 99.22%					
Be 313.107†	314286.8	0.0499 mg/L	0.00016	0.0499 mg/L		0.00016	0.32%
		QC value within limits for Be 313.107 Recovery = 99.78%					
Ca 315.886†	741814.2	4.981 mg/L	0.0166	4.981 mg/L		0.0166	0.33%
		QC value within limits for Ca 315.886 Recovery = 99.63%					
Cd 228.802†	20634.2	0.2459 mg/L	0.00198	0.2459 mg/L		0.00198	0.81%
		QC value within limits for Cd 228.802 Recovery = 98.37%					
Co 228.616†	35508.6	0.4971 mg/L	0.00437	0.4971 mg/L		0.00437	0.88%
		QC value within limits for Co 228.616 Recovery = 99.43%					
Cr 267.716†	75352.4	0.4978 mg/L	0.00541	0.4978 mg/L		0.00541	1.09%
		QC value within limits for Cr 267.716 Recovery = 99.57%					
Cu 324.752†	89116.0	0.4940 mg/L	0.00441	0.4940 mg/L		0.00441	0.89%
		QC value within limits for Cu 324.752 Recovery = 98.80%					
Fe 238.204†	312922.5	2.474 mg/L	0.0245	2.474 mg/L		0.0245	0.99%
		QC value within limits for Fe 238.204 Recovery = 98.96%					
Fe 234.349†	101516.4	2.469 mg/L	0.0256	2.469 mg/L		0.0256	1.04%
		QC value within limits for Fe 234.349 Recovery = 98.75%					
Mg 279.077†	108582.9	4.929 mg/L	0.0500	4.929 mg/L		0.0500	1.01%
		QC value within limits for Mg 279.077 Recovery = 98.58%					
Mn 257.610†	502868.8	0.5025 mg/L	0.00135	0.5025 mg/L		0.00135	0.27%
		QC value within limits for Mn 257.610 Recovery = 100.49%					
Mo 202.031†	6519.6	0.4973 mg/L	0.00378	0.4973 mg/L		0.00378	0.76%
		QC value within limits for Mo 202.031 Recovery = 99.46%					
Na 330.237†	11372.0	24.46 mg/L	0.318	24.46 mg/L		0.318	1.30%
		QC value within limits for Na 330.237 Recovery = 97.84%					
Ni 231.604†	28337.9	0.4962 mg/L	0.00528	0.4962 mg/L		0.00528	1.06%
		QC value within limits for Ni 231.604 Recovery = 99.24%					
Pb 220.353†	4517.8	0.4980 mg/L	0.00538	0.4980 mg/L		0.00538	1.08%
		QC value within limits for Pb 220.353 Recovery = 99.60%					
Sb 206.836†	1799.2	0.4879 mg/L	0.00362	0.4879 mg/L		0.00362	0.74%
		QC value within limits for Sb 206.836 Recovery = 97.59%					
Se 196.026†	716.6	1.001 mg/L	0.0076	1.001 mg/L		0.0076	0.76%
		QC value within limits for Se 196.026 Recovery = 100.10%					
Sn 189.927†	1565.8	0.4880 mg/L	0.00432	0.4880 mg/L		0.00432	0.88%
		QC value within limits for Sn 189.927 Recovery = 97.59%					
Ti 337.279†	380795.5	0.5053 mg/L	0.00118	0.5053 mg/L		0.00118	0.23%
		QC value within limits for Ti 337.279 Recovery = 101.07%					
Tl 190.801†	548.3	0.5170 mg/L	0.01577	0.5170 mg/L		0.01577	3.05%
		QC value within limits for Tl 190.801 Recovery = 103.40%					
V 292.402†	122309.3	0.5018 mg/L	0.00548	0.5018 mg/L		0.00548	1.09%
		QC value within limits for V 292.402 Recovery = 100.37%					
Zn 213.857†	46103.4	0.4913 mg/L	0.00503	0.4913 mg/L		0.00503	1.02%
		QC value within limits for Zn 213.857 Recovery = 98.27%					

All analyte(s) passed QC.

Sequence No.: 58

Sample ID: ICCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 6/22/2006 7:59:53 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2451340.4	2451340.4			20:01:24
1	Ag 328.068†	-664.9	20.0	0.0003 mg/L	0.0003 mg/L	20:01:29
1	Al 237.313†	-286.3	32.2	0.0030 mg/L	0.0030 mg/L	20:01:50
1	As 188.979†	1.7	0.8	0.0000 mg/L	0.0000 mg/L	20:01:50
1	B 182.528†	-27.2	6.5	0.0048 mg/L	0.0048 mg/L	20:01:50



1	Ba 233.527†	-142.7	12.7	-0.0013 mg/L	-0.0013 mg/L	20:01:50
1	Be 313.107†	5220.5	77.7	-0.0001 mg/L	-0.0001 mg/L	20:01:29
1	Ca 315.886†	3254.7	155.3	-0.0145 mg/L	-0.0145 mg/L	20:01:29
1	Cd 228.802†	380.7	-11.9	0.0001 mg/L	0.0001 mg/L	20:01:50
1	Co 228.616†	-382.6	11.8	-0.0018 mg/L	-0.0018 mg/L	20:01:50
1	Cr 267.716†	1794.2	27.5	-0.0010 mg/L	-0.0010 mg/L	20:01:29
1	Cu 324.752†	1351.4	-108.0	-0.0008 mg/L	-0.0008 mg/L	20:01:29
1	Fe 238.204†	723.4	-260.8	-0.0094 mg/L	-0.0094 mg/L	20:01:50
1	Fe 234.349†	141.8	-82.8	-0.0069 mg/L	-0.0069 mg/L	20:01:50
1	Mg 279.077†	75.1	71.5	0.0009 mg/L	0.0009 mg/L	20:01:29
1	Mn 257.610†	958.0	106.5	-0.0025 mg/L	-0.0025 mg/L	20:01:29
1	Mo 202.031†	20.4	12.3	-0.0007 mg/L	-0.0007 mg/L	20:01:50
1	Na 330.237†	1094.3	-66.8	0.5161 mg/L	0.5161 mg/L	20:01:29
1	Ni 231.604†	367.2	4.6	-0.0019 mg/L	-0.0019 mg/L	20:01:50
1	Pb 220.353†	-115.7	5.5	-0.0011 mg/L	-0.0011 mg/L	20:01:50
1	Sb 206.836†	73.7	-6.4	-0.0015 mg/L	-0.0015 mg/L	20:01:50
1	Se 196.026†	-2.0	6.4	0.0072 mg/L	0.0072 mg/L	20:01:50
1	Sn 189.927†	54.0	-21.8	-0.0137 mg/L	-0.0137 mg/L	20:01:50
1	Ti 337.279†	1143.4	209.2	-0.0005 mg/L	-0.0005 mg/L	20:01:29
1	Tl 190.801†	-3.7	7.9	0.0239 mg/L	0.0239 mg/L	20:01:50
1	V 292.402†	2338.4	-126.9	-0.0009 mg/L	-0.0009 mg/L	20:01:29
1	Zn 213.857†	872.5	-85.2	-0.0016 mg/L	-0.0016 mg/L	20:01:50
2	Y 360.073	2468060.2	2468060.2			20:01:55
2	Ag 328.068†	-600.6	88.1	0.0005 mg/L	0.0005 mg/L	20:02:00
2	Al 237.313†	-292.0	28.5	0.0026 mg/L	0.0026 mg/L	20:02:21
2	As 188.979†	-2.2	-3.1	-0.0033 mg/L	-0.0033 mg/L	20:02:21
2	B 182.528†	-33.5	0.4	-0.0002 mg/L	-0.0002 mg/L	20:02:21
2	Ba 233.527†	-130.5	25.7	-0.0013 mg/L	-0.0013 mg/L	20:02:21
2	Be 313.107†	5253.1	74.7	-0.0001 mg/L	-0.0001 mg/L	20:02:00
2	Ca 315.886†	3421.1	298.2	-0.0135 mg/L	-0.0135 mg/L	20:02:00
2	Cd 228.802†	382.5	-12.7	0.0001 mg/L	0.0001 mg/L	20:02:21
2	Co 228.616†	-371.2	25.7	-0.0016 mg/L	-0.0016 mg/L	20:02:21
2	Cr 267.716†	1698.1	-79.9	-0.0017 mg/L	-0.0017 mg/L	20:02:00
2	Cu 324.752†	1345.2	-123.3	-0.0009 mg/L	-0.0009 mg/L	20:02:00
2	Fe 238.204†	709.0	-280.0	-0.0096 mg/L	-0.0096 mg/L	20:02:21
2	Fe 234.349†	123.5	-101.9	-0.0074 mg/L	-0.0074 mg/L	20:02:21
2	Mg 279.077†	103.3	98.9	0.0022 mg/L	0.0022 mg/L	20:02:00
2	Mn 257.610†	976.6	118.4	-0.0025 mg/L	-0.0025 mg/L	20:02:00
2	Mo 202.031†	16.1	8.0	-0.0011 mg/L	-0.0011 mg/L	20:02:21
2	Na 330.237†	1148.9	-20.1	0.6140 mg/L	0.6140 mg/L	20:02:00
2	Ni 231.604†	351.2	-13.8	-0.0022 mg/L	-0.0022 mg/L	20:02:21
2	Pb 220.353†	-125.1	-3.0	-0.0020 mg/L	-0.0020 mg/L	20:02:21
2	Sb 206.836†	76.2	-4.4	-0.0009 mg/L	-0.0009 mg/L	20:02:21
2	Se 196.026†	-7.8	0.7	-0.0009 mg/L	-0.0009 mg/L	20:02:21
2	Sn 189.927†	49.1	-27.0	-0.0154 mg/L	-0.0154 mg/L	20:02:21
2	Ti 337.279†	1086.2	144.8	-0.0006 mg/L	-0.0006 mg/L	20:02:00
2	Tl 190.801†	6.0	17.6	0.0327 mg/L	0.0327 mg/L	20:02:21
2	V 292.402†	2392.1	-89.5	-0.0007 mg/L	-0.0007 mg/L	20:02:00
2	Zn 213.857†	863.4	-100.1	-0.0017 mg/L	-0.0017 mg/L	20:02:21

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Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2459700.3				11822.66	0.48%
Ag 328.068†	54.0	0.0004 mg/L	0.00014	0.0004 mg/L	0.00014	38.40%
QC value within limits for Ag 328.068		Recovery =	Not calculated			
Al 237.313†	30.4	0.0028 mg/L	0.00029	0.0028 mg/L	0.00029	10.44%
QC value within limits for Al 237.313		Recovery =	Not calculated			
As 188.979†	-1.1	-0.0017 mg/L	0.00230	-0.0017 mg/L	0.00230	138.44%
QC value within limits for As 188.979		Recovery =	Not calculated			
B 182.528†	3.5	0.0023 mg/L	0.00351	0.0023 mg/L	0.00351	154.09%
QC value within limits for B 182.528		Recovery =	Not calculated			
Ba 233.527†	19.2	-0.0013 mg/L	0.00005	-0.0013 mg/L	0.00005	3.91%
QC value within limits for Ba 233.527		Recovery =	Not calculated			
Be 313.107†	76.2	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	0.37%
QC value within limits for Be 313.107		Recovery =	Not calculated			
Ca 315.886†	226.8	-0.0140 mg/L	0.00068	-0.0140 mg/L	0.00068	4.86%
QC value within limits for Ca 315.886		Recovery =	Not calculated			
Cd 228.802†	-12.3	0.0001 mg/L	0.00000	0.0001 mg/L	0.00000	0.07%
QC value within limits for Cd 228.802		Recovery =	Not calculated			

Co 228.616†	18.7	-0.0017 mg/L	0.00014	-0.0017 mg/L	0.00014	8.07%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-26.2	-0.0014 mg/L	0.00050	-0.0014 mg/L	0.00050	37.04%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-115.7	-0.0008 mg/L	0.00006	-0.0008 mg/L	0.00006	7.27%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204†	-270.4	-0.0095 mg/L	0.00011	-0.0095 mg/L	0.00011	1.13%
QC value within limits for Fe 238.204 Recovery = Not calculated						
Fe 234.349†	-92.4	-0.0071 mg/L	0.00033	-0.0071 mg/L	0.00033	4.57%
QC value within limits for Fe 234.349 Recovery = Not calculated						
Mg 279.077†	85.2	0.0016 mg/L	0.00088	0.0016 mg/L	0.00088	56.40%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	112.4	-0.0025 mg/L	0.00001	-0.0025 mg/L	0.00001	0.34%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	10.2	-0.0009 mg/L	0.00024	-0.0009 mg/L	0.00024	26.32%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 330.237†	-43.4	0.5651 mg/L	0.06923	0.5651 mg/L	0.06923	12.25%
QC value within limits for Na 330.237 Recovery = Not calculated						
Ni 231.604†	-4.6	-0.0021 mg/L	0.00023	-0.0021 mg/L	0.00023	11.10%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	1.2	-0.0015 mg/L	0.00066	-0.0015 mg/L	0.00066	43.72%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-5.4	-0.0012 mg/L	0.00040	-0.0012 mg/L	0.00040	33.54%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	3.6	0.0031 mg/L	0.00571	0.0031 mg/L	0.00571	181.51%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-24.4	-0.0145 mg/L	0.00117	-0.0145 mg/L	0.00117	8.04%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	177.0	-0.0006 mg/L	0.00006	-0.0006 mg/L	0.00006	10.86%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	12.8	0.0283 mg/L	0.00625	0.0283 mg/L	0.00625	22.10%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated						
V 292.402†	-108.2	-0.0008 mg/L	0.00010	-0.0008 mg/L	0.00010	13.11%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-92.7	-0.0016 mg/L	0.00011	-0.0016 mg/L	0.00011	6.79%
QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 59

Sample ID: 0606346-03DIS

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 49

Date Collected: 6/22/2006 8:03:57 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 0606346-03DIS

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2465053.2	2465053.2			20:05:28
1	Ag 328.068†	-454.6	232.3	0.0009 mg/L	0.0009 mg/L	20:05:34
1	Al 237.313†	-275.0	45.1	-0.0009 mg/L	-0.0009 mg/L	20:05:54
1	As 188.979†	4.3	3.3	0.0020 mg/L	0.0020 mg/L	20:05:54
1	B 182.528†	30.0	63.4	0.0507 mg/L	0.0507 mg/L	20:05:54
1	Ba 233.527†	4808.2	4925.4	0.0257 mg/L	0.0257 mg/L	20:05:34
1	Be 313.107†	4931.6	-237.8	-0.0002 mg/L	-0.0002 mg/L	20:05:34
1	Ca 315.886†	3485608.7	3455074.3	23.26 mg/L	23.26 mg/L	20:05:28
1	Cd 228.802†	379.4	-15.4	0.0000 mg/L	0.0000 mg/L	20:05:54
1	Co 228.616†	-350.7	45.6	-0.0013 mg/L	-0.0013 mg/L	20:05:54
1	Cr 267.716†	1676.9	-98.9	-0.0019 mg/L	-0.0019 mg/L	20:05:34
1	Cu 324.752†	1723.2	253.4	0.0012 mg/L	0.0012 mg/L	20:05:34
1	Fe 238.204†	11683.0	10608.5	0.0767 mg/L	0.0767 mg/L	20:05:34
1	Fe 234.349†	4216.8	3959.3	0.0918 mg/L	0.0918 mg/L	20:05:34
1	Mg 279.077†	88164.3	87466.7	3.974 mg/L	3.974 mg/L	20:05:34
1	Mn 257.610†	323299.8	319905.1	0.3186 mg/L	0.3186 mg/L	20:05:28
1	Mo 202.031†	30.0	21.8	0.0000 mg/L	0.0000 mg/L	20:05:54
1	Na 330.237†	19079.3	17770.5	37.86 mg/L	37.86 mg/L	20:05:34
1	Ni 231.604†	438.3	73.1	-0.0007 mg/L	-0.0007 mg/L	20:05:54
1	Pb 220.353†	-78.9	42.6	0.0030 mg/L	0.0030 mg/L	20:05:54
1	Sb 206.836†	80.3	-0.2	0.0003 mg/L	0.0003 mg/L	20:05:54
1	Se 196.026†	-3.4	5.0	0.0052 mg/L	0.0052 mg/L	20:05:54

1	Sn 189.927†	122.5	45.9	0.0076 mg/L	0.0076 mg/L	20:05:54
1	Ti 337.279†	1023.4	83.8	-0.0007 mg/L	-0.0007 mg/L	20:05:34
1	Tl 190.801†	-8.6	3.1	0.0240 mg/L	0.0240 mg/L	20:05:54
1	V 292.402†	2538.2	58.4	-0.0001 mg/L	-0.0001 mg/L	20:05:34
1	Zn 213.857†	3463.1	2480.1	0.0260 mg/L	0.0260 mg/L	20:05:54
2	Y 360.073	2452181.2	2452181.2			20:06:00
2	Ag 328.068†	-520.9	163.8	0.0007 mg/L	0.0007 mg/L	20:06:05
2	Al 237.313†	-274.3	44.3	-0.0011 mg/L	-0.0011 mg/L	20:06:25
2	As 188.979†	6.1	5.1	0.0036 mg/L	0.0036 mg/L	20:06:25
2	B 182.528†	25.6	59.2	0.0473 mg/L	0.0473 mg/L	20:06:25
2	Ba 233.527†	4786.0	4928.4	0.0258 mg/L	0.0258 mg/L	20:06:05
2	Be 313.107†	4979.6	-164.3	-0.0001 mg/L	-0.0001 mg/L	20:06:05
2	Ca 315.886†	3475384.0	3463029.4	23.31 mg/L	23.31 mg/L	20:06:00
2	Cd 228.802†	384.4	-8.4	0.0001 mg/L	0.0001 mg/L	20:06:25
2	Co 228.616†	-347.1	47.4	-0.0013 mg/L	-0.0013 mg/L	20:06:25
2	Cr 267.716†	1795.3	28.0	-0.0011 mg/L	-0.0011 mg/L	20:06:05
2	Cu 324.752†	1699.0	238.2	0.0011 mg/L	0.0011 mg/L	20:06:05
2	Fe 238.204†	11698.3	10684.6	0.0773 mg/L	0.0773 mg/L	20:06:05
2	Fe 234.349†	4275.6	4039.9	0.0937 mg/L	0.0937 mg/L	20:06:05
2	Mg 279.077†	88788.0	88547.9	4.023 mg/L	4.023 mg/L	20:06:05
2	Mn 257.610†	322238.9	320530.7	0.3193 mg/L	0.3193 mg/L	20:06:00
2	Mo 202.031†	23.3	15.3	-0.0005 mg/L	-0.0005 mg/L	20:06:25
2	Na 330.237†	19312.5	18102.5	38.55 mg/L	38.55 mg/L	20:06:05
2	Ni 231.604†	466.2	103.2	-0.0002 mg/L	-0.0002 mg/L	20:06:25
2	Pb 220.353†	-78.9	42.2	0.0030 mg/L	0.0030 mg/L	20:06:25
2	Sb 206.836†	77.7	-2.4	-0.0004 mg/L	-0.0004 mg/L	20:06:25
2	Se 196.026†	3.1	11.5	0.0143 mg/L	0.0143 mg/L	20:06:25
2	Sn 189.927†	130.1	54.1	0.0102 mg/L	0.0102 mg/L	20:06:25
2	Ti 337.279†	1113.6	179.1	-0.0006 mg/L	-0.0006 mg/L	20:06:05
2	Tl 190.801†	-1.4	10.3	0.0306 mg/L	0.0306 mg/L	20:06:25
2	V 292.402†	2511.6	45.0	-0.0002 mg/L	-0.0002 mg/L	20:06:05
2	Zn 213.857†	3446.8	2481.9	0.0260 mg/L	0.0260 mg/L	20:06:25

## Mean Data: 0606346-03DIS

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2458617.2						9101.83	0.37%
Ag 328.068†	198.0	0.0008	mg/L	0.00014	0.0008	mg/L	0.00014	17.96%
Al 237.313†	44.7	-0.0010	mg/L	0.00010	-0.0010	mg/L	0.00010	10.41%
As 188.979†	4.2	0.0028	mg/L	0.00109	0.0028	mg/L	0.00109	38.63%
B 182.528†	61.3	0.0490	mg/L	0.00241	0.0490	mg/L	0.00241	4.92%
Ba 233.527†	4926.9	0.0257	mg/L	0.00001	0.0257	mg/L	0.00001	0.04%
Be 313.107†	-201.1	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	5.73%
Ca 315.886†	3459051.9	23.28	mg/L	0.038	23.28	mg/L	0.038	0.16%
Cd 228.802†	-11.9	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	69.30%
Co 228.616†	46.5	-0.0013	mg/L	0.00002	-0.0013	mg/L	0.00002	1.27%
Cr 267.716†	-35.4	-0.0015	mg/L	0.00059	-0.0015	mg/L	0.00059	39.32%
Cu 324.752†	245.8	0.0012	mg/L	0.00006	0.0012	mg/L	0.00006	5.02%
Fe 238.204†	10646.6	0.0770	mg/L	0.00043	0.0770	mg/L	0.00043	0.55%
Fe 234.349†	3999.6	0.0927	mg/L	0.00139	0.0927	mg/L	0.00139	1.50%
Mg 279.077†	88007.3	3.998	mg/L	0.0347	3.998	mg/L	0.0347	0.87%
Mn 257.610†	320217.9	0.3190	mg/L	0.00044	0.3190	mg/L	0.00044	0.14%
Mo 202.031†	18.6	-0.0002	mg/L	0.00035	-0.0002	mg/L	0.00035	141.89%
Na 330.237†	17936.5	38.21	mg/L	0.491	38.21	mg/L	0.491	1.29%
Ni 231.604†	88.1	-0.0004	mg/L	0.00037	-0.0004	mg/L	0.00037	88.09%
Pb 220.353†	42.4	0.0030	mg/L	0.00003	0.0030	mg/L	0.00003	1.04%
Sb 206.836†	-1.3	-0.0001	mg/L	0.00044	-0.0001	mg/L	0.00044	756.06%
Se 196.026†	8.3	0.0098	mg/L	0.00640	0.0098	mg/L	0.00640	65.63%
Sn 189.927†	50.0	0.0089	mg/L	0.00183	0.0089	mg/L	0.00183	20.57%
Ti 337.279†	131.5	-0.0006	mg/L	0.00009	-0.0006	mg/L	0.00009	14.49%
Tl 190.801†	6.7	0.0273	mg/L	0.00466	0.0273	mg/L	0.00466	17.08%
V 292.402†	51.7	-0.0001	mg/L	0.00003	-0.0001	mg/L	0.00003	23.88%
Zn 213.857†	2481.0	0.0260	mg/L	0.00001	0.0260	mg/L	0.00001	0.04%

Sequence No.: 60  
Sample ID: 0606346-04DIS  
Analyst:  
Initial Sample Wt:  
Dilution:

Autosampler Location: 50  
Date Collected: 6/22/2006 8:08:02 PM  
Data Type: Original  
Initial Sample Vol:  
Sample Prep Vol:

## Replicate Data: 0606346-04DIS

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	Y 360.073	2511629.5	2511629.5					20:09:33
1	Ag 328.068†	-633.2	66.8	0.0004	mg/L	0.0004	mg/L	20:09:38
1	Al 237.313†	-305.2	20.7	-0.0045	mg/L	-0.0045	mg/L	20:09:59
1	As 188.979†	2.6	1.5	0.0006	mg/L	0.0006	mg/L	20:09:59
1	B 182.528†	36.6	69.2	0.0554	mg/L	0.0554	mg/L	20:09:59
1	Ba 233.527†	5676.7	5682.6	0.0299	mg/L	0.0299	mg/L	20:09:38
1	Be 313.107†	4981.1	-280.4	-0.0002	mg/L	-0.0002	mg/L	20:09:38
1	Ca 315.886†	3662035.0	3562736.5	23.98	mg/L	23.98	mg/L	20:09:33
1	Cd 228.802†	381.6	-20.1	0.0000	mg/L	0.0000	mg/L	20:09:59
1	Co 228.616†	-333.6	68.7	-0.0010	mg/L	-0.0010	mg/L	20:09:59
1	Cr 267.716†	1727.5	-80.5	-0.0018	mg/L	-0.0018	mg/L	20:09:38
1	Cu 324.752†	1553.1	56.0	0.0001	mg/L	0.0001	mg/L	20:09:38
1	Fe 238.204†	15248.5	13865.5	0.1025	mg/L	0.1025	mg/L	20:09:38
1	Fe 234.349†	5394.1	5028.1	0.1178	mg/L	0.1178	mg/L	20:09:38
1	Mg 279.077†	94909.8	92413.0	4.199	mg/L	4.199	mg/L	20:09:38
1	Mn 257.610†	465220.4	452149.1	0.4514	mg/L	0.4514	mg/L	20:09:33
1	Mo 202.031†	23.5	14.9	-0.0005	mg/L	-0.0005	mg/L	20:09:59
1	Na 330.237†	19801.7	18122.9	38.60	mg/L	38.60	mg/L	20:09:38
1	Ni 231.604†	452.7	79.1	-0.0006	mg/L	-0.0006	mg/L	20:09:59
1	Pb 220.353†	-80.0	43.0	0.0031	mg/L	0.0031	mg/L	20:09:59
1	Sb 206.836†	80.1	-1.9	-0.0002	mg/L	-0.0002	mg/L	20:09:59
1	Se 196.026†	-2.4	6.1	0.0067	mg/L	0.0067	mg/L	20:09:59
1	Sn 189.927†	122.3	43.4	0.0068	mg/L	0.0068	mg/L	20:09:59
1	Ti 337.279†	1119.8	158.8	-0.0006	mg/L	-0.0006	mg/L	20:09:38
1	Tl 190.801†	-5.7	6.1	0.0286	mg/L	0.0286	mg/L	20:09:59
-1	V 292.402†	2600.5	72.3	-0.0001	mg/L	-0.0001	mg/L	20:09:38
1	Zn 213.857†	3511.3	2463.4	0.0258	mg/L	0.0258	mg/L	20:09:59
2	Y 360.073	2485751.5	2485751.5					20:10:05
2	Ag 328.068†	-592.7	100.2	0.0005	mg/L	0.0005	mg/L	20:10:10
2	Al 237.313†	-274.9	47.4	-0.0017	mg/L	-0.0017	mg/L	20:10:30
2	As 188.979†	5.5	4.5	0.0031	mg/L	0.0031	mg/L	20:10:30
2	B 182.528†	28.1	61.3	0.0490	mg/L	0.0490	mg/L	20:10:30
2	Ba 233.527†	5745.8	5808.1	0.0306	mg/L	0.0306	mg/L	20:10:10
2	Be 313.107†	5051.9	-160.2	-0.0001	mg/L	-0.0001	mg/L	20:10:10
2	Ca 315.886†	3644707.8	3582811.1	24.12	mg/L	24.12	mg/L	20:10:05
2	Cd 228.802†	367.0	-30.6	-0.0001	mg/L	-0.0001	mg/L	20:10:30
2	Co 228.616†	-326.9	71.9	-0.0010	mg/L	-0.0010	mg/L	20:10:30
2	Cr 267.716†	1682.8	-106.9	-0.0020	mg/L	-0.0020	mg/L	20:10:10
2	Cu 324.752†	1597.1	115.0	0.0005	mg/L	0.0005	mg/L	20:10:10
2	Fe 238.204†	15794.1	14556.8	0.1080	mg/L	0.1080	mg/L	20:10:10
2	Fe 234.349†	5608.3	5293.5	0.1243	mg/L	0.1243	mg/L	20:10:10
2	Mg 279.077†	95319.5	93778.1	4.261	mg/L	4.261	mg/L	20:10:10
2	Mn 257.610†	462546.3	454234.1	0.4535	mg/L	0.4535	mg/L	20:10:05
2	Mo 202.031†	22.2	13.9	-0.0006	mg/L	-0.0006	mg/L	20:10:30
2	Na 330.237†	19784.6	18306.8	38.98	mg/L	38.98	mg/L	20:10:10
2	Ni 231.604†	475.6	106.2	-0.0001	mg/L	-0.0001	mg/L	20:10:30
2	Pb 220.353†	-83.3	38.9	0.0026	mg/L	0.0026	mg/L	20:10:30
2	Sb 206.836†	77.6	-3.6	-0.0007	mg/L	-0.0007	mg/L	20:10:30
2	Se 196.026†	-5.5	3.0	0.0024	mg/L	0.0024	mg/L	20:10:30
2	Sn 189.927†	114.2	36.7	0.0047	mg/L	0.0047	mg/L	20:10:30
2	Ti 337.279†	1104.8	155.4	-0.0006	mg/L	-0.0006	mg/L	20:10:10
2	Tl 190.801†	-9.2	2.6	0.0254	mg/L	0.0254	mg/L	20:10:30
2	V 292.402†	2575.3	73.8	-0.0001	mg/L	-0.0001	mg/L	20:10:10
2	Zn 213.857†	3514.3	2501.9	0.0262	mg/L	0.0262	mg/L	20:10:30

## Mean Data: 0606346-04DIS

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2498690.5						18298.53	0.73%
Ag 328.068†	83.5	0.0005	mg/L	0.00007	0.0005	mg/L	0.00007	15.24%
Al 237.313†	34.0	-0.0031	mg/L	0.00203	-0.0031	mg/L	0.00203	65.71%
As 188.979†	3.0	0.0018	mg/L	0.00176	0.0018	mg/L	0.00176	95.93%
B 182.528†	65.3	0.0522	mg/L	0.00453	0.0522	mg/L	0.00453	8.67%
Ba 233.527†	5745.4	0.0303	mg/L	0.00049	0.0303	mg/L	0.00049	1.62%
Be 313.107†	-220.3	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	9.14%

Ca 315.886†	3572773.8	24.05 mg/L	0.096	24.05 mg/L	0.096	0.40%
Cd 228.802†	-25.4	-0.0001 mg/L	0.00009	-0.0001 mg/L	0.00009	118.98%
Co 228.616†	70.3	-0.0010 mg/L	0.00003	-0.0010 mg/L	0.00003	3.17%
Cr 267.716†	-93.7	-0.0019 mg/L	0.00012	-0.0019 mg/L	0.00012	6.41%
Cu 324.752†	85.5	0.0003 mg/L	0.00023	0.0003 mg/L	0.00023	79.03%
Fe 238.204†	14211.1	0.1053 mg/L	0.00388	0.1053 mg/L	0.00388	3.68%
Fe 234.349†	5160.8	0.1211 mg/L	0.00458	0.1211 mg/L	0.00458	3.78%
Mg 279.077†	93095.5	4.230 mg/L	0.0439	4.230 mg/L	0.0439	1.04%
Mn 257.610†	453191.6	0.4525 mg/L	0.00148	0.4525 mg/L	0.00148	0.33%
Mo 202.031†	14.4	-0.0006 mg/L	0.00005	-0.0006 mg/L	0.00005	9.18%
Na 330.237†	18214.9	38.79 mg/L	0.272	38.79 mg/L	0.272	0.70%
Ni 231.604†	92.6	-0.0003 mg/L	0.00034	-0.0003 mg/L	0.00034	97.71%
Pb 220.353†	41.0	0.0029 mg/L	0.00032	0.0029 mg/L	0.00032	11.18%
Sb 206.836†	-2.7	-0.0004 mg/L	0.00033	-0.0004 mg/L	0.00033	73.66%
Se 196.026†	4.5	0.0045 mg/L	0.00303	0.0045 mg/L	0.00303	66.85%
Sn 189.927†	40.1	0.0058 mg/L	0.00150	0.0058 mg/L	0.00150	26.00%
Ti 337.279†	157.1	-0.0006 mg/L	0.00000	-0.0006 mg/L	0.00000	0.55%
Tl 190.801†	4.4	0.0270 mg/L	0.00223	0.0270 mg/L	0.00223	8.25%
V 292.402†	73.1	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	6.03%
Zn 213.857†	2482.7	0.0260 mg/L	0.00029	0.0260 mg/L	0.00029	1.12%

Sequence No.: 61  
 Sample ID: 0606346-05DIS  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 51  
 Date Collected: 6/22/2006 8:12:07 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 0606346-05DIS

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2501186.1	2501186.1					20:13:38
1	Ag 328.068†	-617.1	79.9	0.0005	mg/L	0.0005	mg/L	20:13:43
1	Al 237.313†	-249.3	74.2	0.0043	mg/L	0.0043	mg/L	20:14:03
1	As 188.979†	0.9	-0.0	-0.0007	mg/L	-0.0007	mg/L	20:14:03
1	B 182.528†	12.2	45.6	0.0363	mg/L	0.0363	mg/L	20:14:03
1	Ba 233.527†	3261.5	3344.2	0.0170	mg/L	0.0170	mg/L	20:14:03
1	Be 313.107†	5022.1	-220.0	-0.0001	mg/L	-0.0001	mg/L	20:13:43
1	Ca 315.886†	3306441.2	3229927.6	21.74	mg/L	21.74	mg/L	20:13:38
1	Cd 228.802†	387.6	-12.8	0.0001	mg/L	0.0001	mg/L	20:14:03
1	Co 228.616†	-314.5	86.0	-0.0008	mg/L	-0.0008	mg/L	20:14:03
1	Cr 267.716†	1687.8	-112.3	-0.0019	mg/L	-0.0019	mg/L	20:13:43
1	Cu 324.752†	1649.2	156.3	0.0007	mg/L	0.0007	mg/L	20:13:43
1	Fe 238.204†	4736.5	3648.8	0.0215	mg/L	0.0215	mg/L	20:13:43
1	Fe 234.349†	1984.2	1715.9	0.0370	mg/L	0.0370	mg/L	20:14:03
1	Mg 279.077†	78824.6	77070.8	3.500	mg/L	3.500	mg/L	20:13:43
1	Mn 257.610†	27655.0	26191.5	0.0237	mg/L	0.0237	mg/L	20:13:43
1	Mo 202.031†	23.5	15.1	-0.0005	mg/L	-0.0005	mg/L	20:14:03
1	Na 330.237†	19764.7	18167.3	38.69	mg/L	38.69	mg/L	20:13:43
1	Ni 231.604†	434.5	63.0	-0.0009	mg/L	-0.0009	mg/L	20:14:03
1	Pb 220.353†	-82.8	40.0	0.0027	mg/L	0.0027	mg/L	20:14:03
1	Sb 206.836†	67.0	-14.4	-0.0037	mg/L	-0.0037	mg/L	20:14:03
1	Se 196.026†	-2.3	6.2	0.0068	mg/L	0.0068	mg/L	20:14:03
1	Sn 189.927†	111.7	33.5	0.0037	mg/L	0.0037	mg/L	20:14:03
1	Ti 337.279†	1031.2	76.7	-0.0007	mg/L	-0.0007	mg/L	20:13:43
1	Tl 190.801†	-5.2	6.5	0.0230	mg/L	0.0230	mg/L	20:14:03
1	V 292.402†	2358.2	-154.0	-0.0010	mg/L	-0.0010	mg/L	20:13:43
1	Zn 213.857†	2935.9	1915.0	0.0199	mg/L	0.0199	mg/L	20:14:03
2	Y 360.073	2491550.5	2491550.5					20:14:09
2	Ag 328.068†	-587.4	106.7	0.0005	mg/L	0.0005	mg/L	20:14:15
2	Al 237.313†	-254.2	68.4	0.0036	mg/L	0.0036	mg/L	20:14:35
2	As 188.979†	1.9	0.9	0.0001	mg/L	0.0001	mg/L	20:14:35
2	B 182.528†	17.2	50.6	0.0403	mg/L	0.0403	mg/L	20:14:35
2	Ba 233.527†	3229.7	3325.3	0.0169	mg/L	0.0169	mg/L	20:14:35
2	Be 313.107†	4942.7	-279.0	-0.0002	mg/L	-0.0002	mg/L	20:14:15
2	Ca 315.886†	3304784.8	3240804.8	21.81	mg/L	21.81	mg/L	20:14:09
2	Cd 228.802†	374.9	-23.7	-0.0001	mg/L	-0.0001	mg/L	20:14:35
2	Co 228.616†	-339.7	60.0	-0.0011	mg/L	-0.0011	mg/L	20:14:35
2	Cr 267.716†	1667.4	-125.9	-0.0020	mg/L	-0.0020	mg/L	20:14:15
2	Cu 324.752†	1648.8	162.1	0.0007	mg/L	0.0007	mg/L	20:14:15

2	Fe 238.204†	4742.5	3672.6	0.0217 mg/L	0.0217 mg/L	20:14:15
2	Fe 234.349†	1950.9	1690.7	0.0364 mg/L	0.0364 mg/L	20:14:35
2	Mg 279.077†	78658.2	77205.6	3.506 mg/L	3.506 mg/L	20:14:15
2	Mn 257.610†	27549.6	26192.6	0.0237 mg/L	0.0237 mg/L	20:14:15
2	Mo 202.031†	3.1	-4.9	-0.0020 mg/L	-0.0020 mg/L	20:14:35
2	Na 330.237†	19564.2	18045.2	38.43 mg/L	38.43 mg/L	20:14:15
2	Ni 231.604†	453.8	83.7	-0.0005 mg/L	-0.0005 mg/L	20:14:35
2	Pb 220.353†	-90.8	31.7	0.0018 mg/L	0.0018 mg/L	20:14:35
2	Sb 206.836†	79.9	-1.5	-0.0001 mg/L	-0.0001 mg/L	20:14:35
2	Se 196.026†	-3.8	4.7	0.0047 mg/L	0.0047 mg/L	20:14:35
2	Sn 189.927†	121.2	43.3	0.0068 mg/L	0.0068 mg/L	20:14:35
2	Ti 337.279†	1041.9	91.2	-0.0007 mg/L	-0.0007 mg/L	20:14:15
2	Tl 190.801†	-3.1	8.6	0.0249 mg/L	0.0249 mg/L	20:14:35
2	V 292.402†	2368.7	-134.8	-0.0009 mg/L	-0.0009 mg/L	20:14:15
2	Zn 213.857†	2928.7	1919.0	0.0199 mg/L	0.0199 mg/L	20:14:35

Mean Data: 0606346-05DIS

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2496368.3						6813.41	0.27%
Ag 328.068†	93.3	0.0005	mg/L	0.00006	0.0005	mg/L	0.00006	11.52%
Al 237.313†	71.3	0.0039	mg/L	0.00046	0.0039	mg/L	0.00046	11.63%
As 188.979†	0.5	-0.0003	mg/L	0.00057	-0.0003	mg/L	0.00057	179.09%
B 182.528†	48.1	0.0383	mg/L	0.00283	0.0383	mg/L	0.00283	7.40%
Ba 233.527†	3334.7	0.0170	mg/L	0.00007	0.0170	mg/L	0.00007	0.43%
Be 313.107†	-249.5	-0.0002	mg/L	0.00001	-0.0002	mg/L	0.00001	4.34%
Ca 315.886†	3235366.2	21.78	mg/L	0.052	21.78	mg/L	0.052	0.24%
Cd 228.802†	-18.3	0.0000	mg/L	0.00009	0.0000	mg/L	0.00009	664.34%
Co 228.616†	73.0	-0.0010	mg/L	0.00026	-0.0010	mg/L	0.00026	27.14%
Cr 267.716†	-119.1	-0.0020	mg/L	0.00006	-0.0020	mg/L	0.00006	3.23%
Cu 324.752†	159.2	0.0007	mg/L	0.00002	0.0007	mg/L	0.00002	3.28%
Fe 238.204†	3660.7	0.0216	mg/L	0.00013	0.0216	mg/L	0.00013	0.62%
Fe 234.349†	1703.3	0.0367	mg/L	0.00044	0.0367	mg/L	0.00044	1.19%
Mg 279.077†	77138.2	3.503	mg/L	0.0043	3.503	mg/L	0.0043	0.12%
Mn 257.610†	26192.1	0.0237	mg/L	0.00000	0.0237	mg/L	0.00000	0.00%
Mo 202.031†	5.1	-0.0013	mg/L	0.00108	-0.0013	mg/L	0.00108	83.98%
Na 330.237†	18106.2	38.56	mg/L	0.181	38.56	mg/L	0.181	0.47%
Ni 231.604†	73.3	-0.0007	mg/L	0.00026	-0.0007	mg/L	0.00026	37.55%
Pb 220.353†	35.9	0.0023	mg/L	0.00064	0.0023	mg/L	0.00064	28.12%
Sb 206.836†	-7.9	-0.0019	mg/L	0.00252	-0.0019	mg/L	0.00252	134.45%
Se 196.026†	5.4	0.0058	mg/L	0.00149	0.0058	mg/L	0.00149	25.80%
Sn 189.927†	38.4	0.0053	mg/L	0.00217	0.0053	mg/L	0.00217	41.33%
Ti 337.279†	84.0	-0.0007	mg/L	0.00001	-0.0007	mg/L	0.00001	1.99%
Tl 190.801†	7.6	0.0239	mg/L	0.00135	0.0239	mg/L	0.00135	5.65%
V 292.402†	-144.4	-0.0009	mg/L	0.00005	-0.0009	mg/L	0.00005	5.79%
Zn 213.857†	1917.0	0.0199	mg/L	0.00003	0.0199	mg/L	0.00003	0.14%

Sequence No.: 62

Sample ID: 0606346-06DIS

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 52

Date Collected: 6/22/2006 8:16:11 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 0606346-06DIS

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2480872.7	2480872.7					20:17:43
1	Ag 328.068†	-596.2	95.6	0.0005	mg/L	0.0005	mg/L	20:17:48
1	Al 237.313†	-263.4	58.2	-0.0005	mg/L	-0.0005	mg/L	20:18:09
1	As 188.979†	5.0	4.0	0.0026	mg/L	0.0026	mg/L	20:18:09
1	B 182.528†	34.7	67.9	0.0543	mg/L	0.0543	mg/L	20:18:09
1	Ba 233.527†	5457.8	5535.4	0.0291	mg/L	0.0291	mg/L	20:18:09
1	Be 313.107†	4974.2	-227.0	-0.0001	mg/L	-0.0001	mg/L	20:17:48
1	Ca 315.886†	3715584.1	3659732.8	24.63	mg/L	24.63	mg/L	20:17:43
1	Cd 228.802†	401.4	3.9	0.0003	mg/L	0.0003	mg/L	20:18:09
1	Co 228.616†	-345.9	52.5	-0.0012	mg/L	-0.0012	mg/L	20:18:09
1	Cr 267.716†	1711.3	-75.5	-0.0018	mg/L	-0.0018	mg/L	20:18:09
1	Cu 324.752†	1591.7	112.8	0.0004	mg/L	0.0004	mg/L	20:17:48

1	Fe 238.204†	14291.4	13106.0	0.0965 mg/L	0.0965 mg/L	20:17:48
1	Fe 234.349†	4960.0	4665.3	0.1090 mg/L	0.1090 mg/L	20:18:09
1	Mg 279.077†	97282.4	95897.6	4.358 mg/L	4.358 mg/L	20:17:48
1	Mn 257.610†	480369.3	472698.9	0.4721 mg/L	0.4721 mg/L	20:17:43
1	Mo 202.031†	15.3	7.1	-0.0011 mg/L	-0.0011 mg/L	20:18:09
1	Na 330.237†	19920.2	18478.8	39.34 mg/L	39.34 mg/L	20:17:48
1	Ni 231.604†	433.5	65.6	-0.0008 mg/L	-0.0008 mg/L	20:18:09
1	Pb 220.353†	-80.8	41.3	0.0029 mg/L	0.0029 mg/L	20:18:09
1	Sb 206.836†	66.2	-14.6	-0.0037 mg/L	-0.0037 mg/L	20:18:09
1	Se 196.026†	-6.7	1.9	0.0008 mg/L	0.0008 mg/L	20:18:09
1	Sn 189.927†	122.8	45.4	0.0075 mg/L	0.0075 mg/L	20:18:09
1	Ti 337.279†	1108.2	161.0	-0.0006 mg/L	-0.0006 mg/L	20:17:48
1	Tl 190.801†	-14.5	-2.6	0.0209 mg/L	0.0209 mg/L	20:18:09
1	V 292.402†	2498.9	3.5	-0.0003 mg/L	-0.0003 mg/L	20:17:48
1	Zn 213.857†	1935.3	952.1	0.0096 mg/L	0.0096 mg/L	20:18:09
2	Y 360.073	2485788.5	2485788.5			20:18:15
2	Ag 328.068†	-573.7	118.9	0.0006 mg/L	0.0006 mg/L	20:18:20
2	Al 237.313†	-258.1	64.0	0.0002 mg/L	0.0002 mg/L	20:18:40
2	As 188.979†	7.9	6.8	0.0050 mg/L	0.0050 mg/L	20:18:40
2	B 182.528†	39.0	72.0	0.0576 mg/L	0.0576 mg/L	20:18:40
2	Ba 233.527†	5427.5	5494.9	0.0289 mg/L	0.0289 mg/L	20:18:40
2	Be 313.107†	5009.9	-201.6	-0.0001 mg/L	-0.0001 mg/L	20:18:20
2	Ca 315.886†	3721493.1	3658303.0	24.62 mg/L	24.62 mg/L	20:18:15
2	Cd 228.802†	392.2	-5.8	0.0001 mg/L	0.0001 mg/L	20:18:40
2	Co 228.616†	-340.4	58.7	-0.0012 mg/L	-0.0012 mg/L	20:18:40
2	Cr 267.716†	1715.9	-74.4	-0.0018 mg/L	-0.0018 mg/L	20:18:40
2	Cu 324.752†	1563.8	82.3	0.0003 mg/L	0.0003 mg/L	20:18:20
2	Fe 238.204†	14265.6	13052.7	0.0961 mg/L	0.0961 mg/L	20:18:20
2	Fe 234.349†	4940.2	4636.1	0.1083 mg/L	0.1083 mg/L	20:18:40
2	Mg 279.077†	97147.6	95575.3	4.343 mg/L	4.343 mg/L	20:18:20
2	Mn 257.610†	481816.9	473186.7	0.4726 mg/L	0.4726 mg/L	20:18:15
2	Mo 202.031†	14.1	5.9	-0.0012 mg/L	-0.0012 mg/L	20:18:40
2	Na 330.237†	19996.7	18515.3	39.42 mg/L	39.42 mg/L	20:18:20
2	Ni 231.604†	454.6	85.5	-0.0005 mg/L	-0.0005 mg/L	20:18:40
2	Pb 220.353†	-68.2	53.8	0.0043 mg/L	0.0043 mg/L	20:18:40
2	Sb 206.836†	77.3	-3.9	-0.0008 mg/L	-0.0008 mg/L	20:18:40
2	Se 196.026†	-0.7	7.7	0.0090 mg/L	0.0090 mg/L	20:18:40
2	Sn 189.927†	124.8	47.1	0.0080 mg/L	0.0080 mg/L	20:18:40
2	Ti 337.279†	1161.5	211.2	-0.0005 mg/L	-0.0005 mg/L	20:18:20
2	Tl 190.801†	-17.4	-5.4	0.0184 mg/L	0.0184 mg/L	20:18:40
2	V 292.402†	2443.7	-55.7	-0.0006 mg/L	-0.0006 mg/L	20:18:20
2	Zn 213.857†	1934.8	947.8	0.0095 mg/L	0.0095 mg/L	20:18:40

Mean Data: 0606346-06DIS

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Std.Dev.	RSD
Y 360.073	2483330.6					3475.98	0.14%
Ag 328.068†	107.2	0.0005 mg/L		0.00005	0.0005 mg/L	0.00005	9.22%
Al 237.313†	61.1	-0.0002 mg/L		0.00047	-0.0002 mg/L	0.00047	268.54%
As 188.979†	5.4	0.0038 mg/L		0.00167	0.0038 mg/L	0.00167	43.90%
B 182.528†	69.9	0.0559 mg/L		0.00235	0.0559 mg/L	0.00235	4.19%
Ba 233.527†	5515.1	0.0290 mg/L		0.00016	0.0290 mg/L	0.00016	0.54%
Be 313.107†	-214.3	-0.0001 mg/L		0.00000	-0.0001 mg/L	0.00000	1.95%
Ca 315.886†	3659017.9	24.63 mg/L		0.007	24.63 mg/L	0.007	0.03%
Cd 228.802†	-1.0	0.0002 mg/L		0.00009	0.0002 mg/L	0.00009	42.31%
Co 228.616†	55.6	-0.0012 mg/L		0.00006	-0.0012 mg/L	0.00006	5.05%
Cr 267.716†	-75.0	-0.0018 mg/L		0.00001	-0.0018 mg/L	0.00001	0.29%
Cu 324.752†	97.5	0.0004 mg/L		0.00012	0.0004 mg/L	0.00012	33.25%
Fe 238.204†	13079.3	0.0963 mg/L		0.00030	0.0963 mg/L	0.00030	0.31%
Fe 234.349†	4650.7	0.1086 mg/L		0.00051	0.1086 mg/L	0.00051	0.47%
Mg 279.077†	95736.5	4.350 mg/L		0.0104	4.350 mg/L	0.0104	0.24%
Mn 257.610†	472942.8	0.4723 mg/L		0.00035	0.4723 mg/L	0.00035	0.07%
Mo 202.031†	6.5	-0.0012 mg/L		0.00007	-0.0012 mg/L	0.00007	5.75%
Na 330.237†	18497.0	39.38 mg/L		0.054	39.38 mg/L	0.054	0.14%
Ni 231.604†	75.5	-0.0006 mg/L		0.00025	-0.0006 mg/L	0.00025	38.25%
Pb 220.353†	47.6	0.0036 mg/L		0.00098	0.0036 mg/L	0.00098	27.33%
Sb 206.836†	-9.3	-0.0022 mg/L		0.00209	-0.0022 mg/L	0.00209	93.39%
Se 196.026†	4.8	0.0049 mg/L		0.00580	0.0049 mg/L	0.00580	118.37%
Sn 189.927†	46.3	0.0077 mg/L		0.00039	0.0077 mg/L	0.00039	5.02%
Ti 337.279†	186.1	-0.0005 mg/L		0.00005	-0.0005 mg/L	0.00005	8.66%

Tl 190.801†	-4.0	0.0196 mg/L	0.00178	0.0196 mg/L	0.00178	9.06%
V 292.402†	-26.1	-0.0005 mg/L	0.00017	-0.0005 mg/L	0.00017	36.94%
Zn 213.857†	950.0	0.0095 mg/L	0.00003	0.0095 mg/L	0.00003	0.36%

Sequence No.: 63  
 Sample ID: BF62207-DUP1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 53  
 Date Collected: 6/22/2006 8:20:17 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: BF62207-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2475524.6	2475524.6			20:21:50
1	Ag 328.068†	-560.4	129.7	0.0006 mg/L	0.0006 mg/L	20:21:55
1	Al 237.313†	-256.3	64.7	0.0002 mg/L	0.0002 mg/L	20:22:15
1	As 188.979†	3.9	2.9	0.0017 mg/L	0.0017 mg/L	20:22:15
1	B 182.528†	36.5	69.7	0.0558 mg/L	0.0558 mg/L	20:22:15
1	Ba 233.527†	5503.3	5592.0	0.0294 mg/L	0.0294 mg/L	20:21:55
1	Be 313.107†	5000.6	-190.4	-0.0001 mg/L	-0.0001 mg/L	20:21:55
1	Ca 315.886†	3673901.8	3626466.7	24.41 mg/L	24.41 mg/L	20:21:50
1	Cd 228.802†	374.4	-21.9	0.0000 mg/L	0.0000 mg/L	20:22:15
1	Co 228.616†	-357.0	40.9	-0.0014 mg/L	-0.0014 mg/L	20:22:15
1	Cr 267.716†	1722.2	-61.1	-0.0017 mg/L	-0.0017 mg/L	20:21:55
1	Cu 324.752†	1563.7	88.6	0.0003 mg/L	0.0003 mg/L	20:21:55
1	Fe 238.204†	16700.0	15516.0	0.1156 mg/L	0.1156 mg/L	20:21:55
1	Fe 234.349†	5884.7	5589.4	0.1316 mg/L	0.1316 mg/L	20:21:55
1	Mg 279.077†	95108.0	93956.6	4.269 mg/L	4.269 mg/L	20:21:55
1	Mn 257.610†	474244.7	467671.3	0.4670 mg/L	0.4670 mg/L	20:21:50
1	Mo 202.031†	11.8	3.7	-0.0014 mg/L	-0.0014 mg/L	20:22:15
1	Na 330.237†	19423.9	18030.9	38.41 mg/L	38.41 mg/L	20:21:55
1	Ni 231.604†	439.1	72.0	-0.0007 mg/L	-0.0007 mg/L	20:22:15
1	Pb 220.353†	-99.2	22.9	0.0009 mg/L	0.0009 mg/L	20:22:15
1	Sb 206.836†	70.7	-10.0	-0.0025 mg/L	-0.0025 mg/L	20:22:15
1	Se 196.026†	-2.9	5.5	0.0059 mg/L	0.0059 mg/L	20:22:15
1	Sn 189.927†	123.4	46.2	0.0077 mg/L	0.0077 mg/L	20:22:15
1	Ti 337.279†	1114.9	170.0	-0.0006 mg/L	-0.0006 mg/L	20:21:55
1	Tl 190.801†	-12.7	-0.9	0.0224 mg/L	0.0224 mg/L	20:22:15
1	V 292.402†	2571.6	80.7	0.0000 mg/L	0.0000 mg/L	20:21:55
1	Zn 213.857†	1900.7	922.0	0.0092 mg/L	0.0092 mg/L	20:22:15
2	Y 360.073	2471828.1	2471828.1			20:22:21
2	Ag 328.068†	-479.6	208.8	0.0008 mg/L	0.0008 mg/L	20:22:27
2	Al 237.313†	-287.9	33.0	-0.0034 mg/L	-0.0034 mg/L	20:22:47
2	As 188.979†	4.5	3.5	0.0022 mg/L	0.0022 mg/L	20:22:47
2	B 182.528†	37.6	70.8	0.0567 mg/L	0.0567 mg/L	20:22:47
2	Ba 233.527†	5487.3	5584.3	0.0294 mg/L	0.0294 mg/L	20:22:27
2	Be 313.107†	4945.9	-237.1	-0.0002 mg/L	-0.0002 mg/L	20:22:27
2	Ca 315.886†	3669174.2	3627217.1	24.42 mg/L	24.42 mg/L	20:22:21
2	Cd 228.802†	391.0	-4.9	0.0002 mg/L	0.0002 mg/L	20:22:47
2	Co 228.616†	-337.4	59.7	-0.0011 mg/L	-0.0011 mg/L	20:22:47
2	Cr 267.716†	1731.7	-49.2	-0.0016 mg/L	-0.0016 mg/L	20:22:27
2	Cu 324.752†	1553.1	80.4	0.0003 mg/L	0.0003 mg/L	20:22:27
2	Fe 238.204†	16617.1	15458.6	0.1152 mg/L	0.1152 mg/L	20:22:27
2	Fe 234.349†	5860.7	5574.3	0.1312 mg/L	0.1312 mg/L	20:22:27
2	Mg 279.077†	94966.8	93957.5	4.269 mg/L	4.269 mg/L	20:22:27
2	Mn 257.610†	473618.5	467752.4	0.4671 mg/L	0.4671 mg/L	20:22:21
2	Mo 202.031†	24.6	16.4	-0.0004 mg/L	-0.0004 mg/L	20:22:47
2	Na 330.237†	19256.1	17893.6	38.12 mg/L	38.12 mg/L	20:22:27
2	Ni 231.604†	480.4	113.5	0.0000 mg/L	0.0000 mg/L	20:22:47
2	Pb 220.353†	-88.6	33.2	0.0020 mg/L	0.0020 mg/L	20:22:47
2	Sb 206.836†	74.5	-6.2	-0.0014 mg/L	-0.0014 mg/L	20:22:47
2	Se 196.026†	-6.0	2.5	0.0017 mg/L	0.0017 mg/L	20:22:47
2	Sn 189.927†	121.2	44.3	0.0071 mg/L	0.0071 mg/L	20:22:47
2	Ti 337.279†	1108.2	165.0	-0.0006 mg/L	-0.0006 mg/L	20:22:27
2	Tl 190.801†	-14.3	-2.5	0.0210 mg/L	0.0210 mg/L	20:22:47
2	V 292.402†	2554.9	67.9	-0.0001 mg/L	-0.0001 mg/L	20:22:27
2	Zn 213.857†	1904.9	929.0	0.0093 mg/L	0.0093 mg/L	20:22:47



## Mean Data: BF62207-DUP1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2473676.4						2613.86	0.11%
Ag 328.068†	169.2	0.0007	mg/L	0.00017	0.0007	mg/L	0.00017	23.24%
Al 237.313†	48.9	-0.0016	mg/L	0.00250	-0.0016	mg/L	0.00250	155.71%
As 188.979†	3.2	0.0020	mg/L	0.00034	0.0020	mg/L	0.00034	17.00%
B 182.528†	70.3	0.0562	mg/L	0.00062	0.0562	mg/L	0.00062	1.10%
Ba 233.527†	5588.1	0.0294	mg/L	0.00003	0.0294	mg/L	0.00003	0.10%
Be 313.107†	-213.8	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	3.58%
Ca 315.886†	3626841.9	24.41	mg/L	0.004	24.41	mg/L	0.004	0.01%
Cd 228.802†	-13.4	0.0001	mg/L	0.00014	0.0001	mg/L	0.00014	224.83%
Co 228.616†	50.3	-0.0013	mg/L	0.00019	-0.0013	mg/L	0.00019	14.73%
Cr 267.716†	-55.2	-0.0017	mg/L	0.00006	-0.0017	mg/L	0.00006	3.32%
Cu 324.752†	84.5	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003	11.18%
Fe 238.204†	15487.3	0.1154	mg/L	0.00032	0.1154	mg/L	0.00032	0.28%
Fe 234.349†	5581.8	0.1314	mg/L	0.00027	0.1314	mg/L	0.00027	0.20%
Mg 279.077†	93957.0	4.269	mg/L	0.0000	4.269	mg/L	0.0000	0.00%
Mn 257.610†	467711.8	0.4671	mg/L	0.00006	0.4671	mg/L	0.00006	0.01%
Mo 202.031†	10.0	-0.0009	mg/L	0.00069	-0.0009	mg/L	0.00069	76.28%
Na 330.237†	17962.2	38.26	mg/L	0.203	38.26	mg/L	0.203	0.53%
Ni 231.604†	92.8	-0.0003	mg/L	0.00052	-0.0003	mg/L	0.00052	150.41%
Pb 220.353†	28.1	0.0014	mg/L	0.00080	0.0014	mg/L	0.00080	56.11%
Sb 206.836†	-8.1	-0.0019	mg/L	0.00075	-0.0019	mg/L	0.00075	39.24%
Se 196.026†	4.0	0.0038	mg/L	0.00296	0.0038	mg/L	0.00296	77.45%
Sn 189.927†	45.2	0.0074	mg/L	0.00043	0.0074	mg/L	0.00043	5.86%
Ti 337.279†	167.5	-0.0006	mg/L	0.00000	-0.0006	mg/L	0.00000	0.82%
Tl 190.801†	-1.7	0.0217	mg/L	0.00099	0.0217	mg/L	0.00099	4.57%
V 292.402†	74.3	-0.0001	mg/L	0.00004	-0.0001	mg/L	0.00004	69.90%
Zn 213.857†	925.5	0.0093	mg/L	0.00005	0.0093	mg/L	0.00005	0.54%

## Duplicate Check: BF62207-DUP1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.0005	0.0007	0.000	mg/L	29.6
Al 237.313	-0.0002	-0.0016	0.002	mg/L	-161.0
As 188.979	0.0038	0.0020	0.000	mg/L	62.9
B 182.528	0.0559	0.0562	0.001	mg/L	0.5
Ba 233.527	0.0290	0.0294	0.000	mg/L	1.4
Be 313.107	-0.0001	-0.0001	0.000	mg/L	-0.1
Ca 315.886	24.63	24.41	0.004	mg/L	0.9
Cd 228.802	0.0002	0.0001	0.000	mg/L	106.3
Co 228.616	-0.0012	-0.0013	0.000	mg/L	-6.0
Cr 267.716	-0.0018	-0.0017	0.000	mg/L	-7.6
Cu 324.752	0.0004	0.0003	0.000	mg/L	22.4
Fe 238.204	0.0963	0.1154	0.000	mg/L	18.0
Fe 234.349	0.1086	0.1314	0.000	mg/L	18.9
Mg 279.077	4.350	4.269	0.000	mg/L	1.9
Mn 257.610	0.4723	0.4671	0.000	mg/L	1.1
Mo 202.031	-0.0012	-0.0009	0.001	mg/L	-26.2
Na 330.237	39.38	38.26	0.203	mg/L	2.9
Ni 231.604	-0.0006	-0.0003	0.001	mg/L	-61.3
Pb 220.353	0.0036	0.0014	0.001	mg/L	85.7
Sb 206.836	-0.0022	-0.0019	0.001	mg/L	-15.2
Se 196.026	0.0049	0.0038	0.003	mg/L	24.6
Sn 189.927	0.0077	0.0074	0.000	mg/L	4.3
Ti 337.279	-0.0005	-0.0006	0.000	mg/L	-4.4
Tl 190.801	0.0196	0.0217	0.001	mg/L	9.9
V 292.402	-0.0005	-0.0001	0.000	mg/L	-159.6
Zn 213.857	0.0095	0.0093	0.000	mg/L	2.8

Sequence No.: 64  
Sample ID: BF62207-MS1  
Analyst:  
Initial Sample Wt:  
Dilution:

Autosampler Location: 54  
Date Collected: 6/22/2006 8:24:23 PM  
Data Type: Original  
Initial Sample Vol:  
Sample Prep Vol:

## Replicate Data: BF62207-MS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2479808.9	2479808.9					20:25:57
1	Ag 328.068†	89008.5	88465.6	0.2634	mg/L	0.2634	mg/L	20:26:02
1	Al 237.313†	23310.6	23307.4	2.571	mg/L	2.571	mg/L	20:26:02
1	As 188.979†	634.6	625.0	0.5231	mg/L	0.5231	mg/L	20:26:22
1	B 182.528†	691.1	715.2	0.5771	mg/L	0.5771	mg/L	20:26:22
1	Ba 233.527†	98753.3	97547.9	0.5356	mg/L	0.5356	mg/L	20:26:02
1	Be 313.107†	344138.0	334266.3	0.0531	mg/L	0.0531	mg/L	20:25:57
1	Ca 315.886†	4487057.5	4422149.3	29.77	mg/L	29.77	mg/L	20:25:57
1	Cd 228.802†	22376.5	21676.5	0.2583	mg/L	0.2583	mg/L	20:26:02
1	Co 228.616†	36418.1	36309.9	0.5084	mg/L	0.5084	mg/L	20:26:02
1	Cr 267.716†	81426.9	78542.5	0.5188	mg/L	0.5188	mg/L	20:26:02
1	Cu 324.752†	97664.4	94862.6	0.5259	mg/L	0.5259	mg/L	20:26:02
1	Fe 238.204†	346011.6	340262.2	2.691	mg/L	2.691	mg/L	20:26:02
1	Fe 234.349†	112574.2	110799.0	2.695	mg/L	2.695	mg/L	20:26:02
1	Mg 279.077†	208284.8	205411.9	9.331	mg/L	9.331	mg/L	20:26:02
1	Mn 257.610†	992610.3	978086.2	0.9797	mg/L	0.9797	mg/L	20:25:57
1	Mo 202.031†	6920.5	6817.2	0.5201	mg/L	0.5201	mg/L	20:26:22
1	Na 330.237†	33464.3	31844.7	67.32	mg/L	67.32	mg/L	20:26:02
1	Ni 231.604†	30294.6	29515.5	0.5169	mg/L	0.5169	mg/L	20:26:02
1	Pb 220.353†	4583.8	4641.6	0.5117	mg/L	0.5117	mg/L	20:26:22
1	Sb 206.836†	1984.6	1877.3	0.5091	mg/L	0.5091	mg/L	20:26:22
1	Se 196.026†	762.7	760.7	1.063	mg/L	1.063	mg/L	20:26:22
1	Sn 189.927†	1808.9	1708.3	0.5329	mg/L	0.5329	mg/L	20:26:22
1	Ti 337.279†	402357.7	395883.0	0.5254	mg/L	0.5254	mg/L	20:25:57
1	Tl 190.801†	566.4	570.3	0.5437	mg/L	0.5437	mg/L	20:26:22
1	V 292.402†	131102.1	126836.1	0.5204	mg/L	0.5204	mg/L	20:26:02
1	Zn 213.857†	50755.9	49101.0	0.5234	mg/L	0.5234	mg/L	20:26:02
2	Y 360.073	2469981.4	2469981.4					20:26:29
2	Ag 328.068†	88238.5	88052.5	0.2622	mg/L	0.2622	mg/L	20:26:35
2	Al 237.313†	23105.3	23195.5	2.558	mg/L	2.558	mg/L	20:26:35
2	As 188.979†	635.2	628.0	0.5257	mg/L	0.5257	mg/L	20:26:55
2	B 182.528†	697.7	724.5	0.5845	mg/L	0.5845	mg/L	20:26:55
2	Ba 233.527†	97951.7	97141.7	0.5334	mg/L	0.5334	mg/L	20:26:35
2	Be 313.107†	343051.1	334540.5	0.0531	mg/L	0.0531	mg/L	20:26:29
2	Ca 315.886†	4480181.8	4432948.3	29.84	mg/L	29.84	mg/L	20:26:29
2	Cd 228.802†	22188.7	21578.3	0.2572	mg/L	0.2572	mg/L	20:26:35
2	Co 228.616†	36222.4	36259.0	0.5077	mg/L	0.5077	mg/L	20:26:35
2	Cr 267.716†	80886.5	78326.9	0.5174	mg/L	0.5174	mg/L	20:26:35
2	Cu 324.752†	96534.5	94127.1	0.5218	mg/L	0.5218	mg/L	20:26:35
2	Fe 238.204†	343306.1	338941.1	2.680	mg/L	2.680	mg/L	20:26:35
2	Fe 234.349†	111811.5	110485.5	2.688	mg/L	2.688	mg/L	20:26:35
2	Mg 279.077†	206996.4	204953.5	9.310	mg/L	9.310	mg/L	20:26:35
2	Mn 257.610†	990559.5	979950.5	0.9815	mg/L	0.9815	mg/L	20:26:29
2	Mo 202.031†	6893.6	6817.7	0.5201	mg/L	0.5201	mg/L	20:26:55
2	Na 330.237†	33287.1	31800.6	67.23	mg/L	67.23	mg/L	20:26:35
2	Ni 231.604†	30097.4	29439.0	0.5155	mg/L	0.5155	mg/L	20:26:35
2	Pb 220.353†	4570.5	4646.4	0.5123	mg/L	0.5123	mg/L	20:26:55
2	Sb 206.836†	1979.9	1880.5	0.5100	mg/L	0.5100	mg/L	20:26:55
2	Se 196.026†	762.2	763.2	1.066	mg/L	1.066	mg/L	20:26:55
2	Sn 189.927†	1798.8	1705.4	0.5320	mg/L	0.5320	mg/L	20:26:55
2	Ti 337.279†	400505.8	395628.2	0.5251	mg/L	0.5251	mg/L	20:26:29
2	Tl 190.801†	579.3	585.3	0.5574	mg/L	0.5574	mg/L	20:26:55
2	V 292.402†	130022.6	126281.7	0.5182	mg/L	0.5182	mg/L	20:26:35
2	Zn 213.857†	50291.8	48840.6	0.5206	mg/L	0.5206	mg/L	20:26:35

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Mean Data: BF62207-MS1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2474895.1						6949.07	0.28%
Ag 328.068†	88259.0	0.2628	mg/L	0.00087	0.2628	mg/L	0.00087	0.33%
Al 237.313†	23251.4	2.565	mg/L	0.0088	2.565	mg/L	0.0088	0.34%
As 188.979†	626.5	0.5244	mg/L	0.00180	0.5244	mg/L	0.00180	0.34%
B 182.528†	719.9	0.5808	mg/L	0.00529	0.5808	mg/L	0.00529	0.91%
Ba 233.527†	97344.8	0.5345	mg/L	0.00158	0.5345	mg/L	0.00158	0.30%
Be 313.107†	334403.4	0.0531	mg/L	0.00003	0.0531	mg/L	0.00003	0.06%
Ca 315.886†	4427548.8	29.81	mg/L	0.051	29.81	mg/L	0.051	0.17%
Cd 228.802†	21627.4	0.2578	mg/L	0.00084	0.2578	mg/L	0.00084	0.33%

Co 228.616†	36284.5	0.5080 mg/L	0.00051	0.5080 mg/L	0.00051	0.10%
Cr 267.716†	78434.7	0.5181 mg/L	0.00101	0.5181 mg/L	0.00101	0.19%
Cu 324.752†	94494.9	0.5238 mg/L	0.00288	0.5238 mg/L	0.00288	0.55%
Fe 238.204†	339601.7	2.686 mg/L	0.0074	2.686 mg/L	0.0074	0.28%
Fe 234.349†	110642.3	2.691 mg/L	0.0054	2.691 mg/L	0.0054	0.20%
Mg 279.077†	205182.7	9.321 mg/L	0.0147	9.321 mg/L	0.0147	0.16%
Mn 257.610†	979018.3	0.9806 mg/L	0.00132	0.9806 mg/L	0.00132	0.13%
Mo 202.031†	6817.4	0.5201 mg/L	0.00002	0.5201 mg/L	0.00002	0.00%
Na 330.237†	31822.7	67.28 mg/L	0.065	67.28 mg/L	0.065	0.10%
Ni 231.604†	29477.3	0.5162 mg/L	0.00095	0.5162 mg/L	0.00095	0.18%
Pb 220.353†	4644.0	0.5120 mg/L	0.00037	0.5120 mg/L	0.00037	0.07%
Sb 206.836†	1878.9	0.5096 mg/L	0.00063	0.5096 mg/L	0.00063	0.12%
Se 196.026†	761.9	1.064 mg/L	0.0025	1.064 mg/L	0.0025	0.23%
Sn 189.927†	1706.9	0.5325 mg/L	0.00064	0.5325 mg/L	0.00064	0.12%
Ti 337.279†	395755.6	0.5252 mg/L	0.00024	0.5252 mg/L	0.00024	0.05%
Tl 190.801†	577.8	0.5505 mg/L	0.00971	0.5505 mg/L	0.00971	1.76%
V 292.402†	126558.9	0.5193 mg/L	0.00161	0.5193 mg/L	0.00161	0.31%
Zn 213.857†	48970.8	0.5220 mg/L	0.00197	0.5220 mg/L	0.00197	0.38%

## Matrix Recovery Check: BF62207-MS1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.2505	0.2628	0.001	mg/L	104.9
Al 237.313	2.500	2.565	0.009	mg/L	102.6
As 188.979	0.5038	0.5244	0.002	mg/L	104.1
B 182.528	0.5559	0.5808	0.005	mg/L	105.0
Ba 233.527	0.5290	0.5345	0.002	mg/L	101.1
Be 313.107	0.0499	0.0531	0.000	mg/L	106.5
Ca 315.886	29.63	29.81	0.051	mg/L	103.5
Cd 228.802	0.2502	0.2578	0.001	mg/L	103.0
Co 228.616	0.4988	0.5080	0.001	mg/L	101.8
Cr 267.716	0.4982	0.5181	0.001	mg/L	104.0
Cu 324.752	0.5004	0.5238	0.003	mg/L	104.7
Fe 238.204	2.596	2.686	0.007	mg/L	103.6
Fe 234.349	2.609	2.691	0.005	mg/L	103.3
Mg 279.077	9.350	9.321	0.015	mg/L	99.4
Mn 257.610	0.9723	0.9806	0.001	mg/L	101.7
Mo 202.031	0.4988	0.5201	0.000	mg/L	104.3
Na 330.237	64.38	67.28	0.065	mg/L	111.6
Ni 231.604	0.4994	0.5162	0.001	mg/L	103.4
Pb 220.353	0.5036	0.5120	0.000	mg/L	101.7
Sb 206.836	0.4978	0.5096	0.001	mg/L	102.4
Se 196.026	1.005	1.064	0.002	mg/L	105.9
Sn 189.927	0.5077	0.5325	0.001	mg/L	104.9
Ti 337.279	0.4995	0.5252	0.000	mg/L	105.2
Tl 190.801	0.5196	0.5505	0.010	mg/L	106.2
V 292.402	0.4995	0.5193	0.002	mg/L	104.0
Zn 213.857	0.5095	0.5220	0.002	mg/L	102.5

Sequence No.: 65

Sample ID: BF62207-SD1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 55

Date Collected: 6/22/2006 8:28:32 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: BF62207-SD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2481179.5	2481179.5					20:30:04
1	Ag 328.068†	-613.7	78.4	0.0004	mg/L	0.0004	mg/L	20:30:09
1	Al 237.313†	-272.8	49.0	0.0036	mg/L	0.0036	mg/L	20:30:29
1	As 188.979†	0.6	-0.4	-0.0010	mg/L	-0.0010	mg/L	20:30:29
1	B 182.528†	-8.5	25.3	0.0199	mg/L	0.0199	mg/L	20:30:29
1	Ba 233.527†	998.3	1139.0	0.0049	mg/L	0.0049	mg/L	20:30:29
1	Be 313.107†	5249.0	43.2	-0.0001	mg/L	-0.0001	mg/L	20:30:09
1	Ca 315.886†	760981.6	746991.4	5.016	mg/L	5.016	mg/L	20:30:04
1	Cd 228.802†	371.8	-25.2	-0.0001	mg/L	-0.0001	mg/L	20:30:29
1	Co 228.616†	-389.8	9.3	-0.0019	mg/L	-0.0019	mg/L	20:30:29

1	Cr 267.716†	1737.5	-50.0	-0.0015 mg/L	-0.0015 mg/L	20:30:09
1	Cu 324.752†	1354.4	-121.2	-0.0009 mg/L	-0.0009 mg/L	20:30:09
1	Fe 238.204†	3705.3	2669.7	0.0138 mg/L	0.0138 mg/L	20:30:09
1	Fe 234.349†	1283.2	1040.5	0.0205 mg/L	0.0205 mg/L	20:30:29
1	Mg 279.077†	19448.2	19166.2	0.8691 mg/L	0.8691 mg/L	20:30:09
1	Mn 257.610†	97278.6	95036.1	0.0928 mg/L	0.0928 mg/L	20:30:09
1	Mo 202.031†	17.0	8.8	-0.0010 mg/L	-0.0010 mg/L	20:30:29
1	Na 330.237†	4471.1	3248.5	7.457 mg/L	7.457 mg/L	20:30:09
1	Ni 231.604†	386.1	18.8	-0.0016 mg/L	-0.0016 mg/L	20:30:29
1	Pb 220.353†	-116.6	6.0	-0.0010 mg/L	-0.0010 mg/L	20:30:29
1	Sb 206.836†	70.4	-10.5	-0.0026 mg/L	-0.0026 mg/L	20:30:29
1	Se 196.026†	-1.2	7.3	0.0083 mg/L	0.0083 mg/L	20:30:29
1	Sn 189.927†	65.4	-11.2	-0.0104 mg/L	-0.0104 mg/L	20:30:29
1	Ti 337.279†	1047.6	101.1	-0.0007 mg/L	-0.0007 mg/L	20:30:09
1	Tl 190.801†	-2.7	9.0	0.0262 mg/L	0.0262 mg/L	20:30:29
1	V 292.402†	2388.7	-105.4	-0.0008 mg/L	-0.0008 mg/L	20:30:09
1	Zn 213.857†	1372.8	397.4	0.0036 mg/L	0.0036 mg/L	20:30:29
2	Y 360.073	2478206.8	2478206.8			20:30:35
2	Ag 328.068†	-590.7	100.4	0.0005 mg/L	0.0005 mg/L	20:30:41
2	Al 237.313†	-296.6	25.1	0.0009 mg/L	0.0009 mg/L	20:31:01
2	As 188.979†	-3.0	-3.9	-0.0040 mg/L	-0.0040 mg/L	20:31:01
2	B 182.528†	-11.2	22.6	0.0177 mg/L	0.0177 mg/L	20:31:01
2	Ba 233.527†	999.6	1141.6	0.0049 mg/L	0.0049 mg/L	20:31:01
2	Be 313.107†	5120.3	-77.6	-0.0001 mg/L	-0.0001 mg/L	20:30:41
2	Ca 315.886†	760457.4	747373.9	5.018 mg/L	5.018 mg/L	20:30:35
2	Cd 228.802†	385.7	-11.1	0.0001 mg/L	0.0001 mg/L	20:31:01
2	Co 228.616†	-381.3	17.3	-0.0017 mg/L	-0.0017 mg/L	20:31:01
2	Cr 267.716†	1728.6	-56.7	-0.0016 mg/L	-0.0016 mg/L	20:30:41
2	Cu 324.752†	1383.3	-91.2	-0.0007 mg/L	-0.0007 mg/L	20:30:41
2	Fe 238.204†	3770.5	2738.4	0.0143 mg/L	0.0143 mg/L	20:30:41
2	Fe 234.349†	1271.8	1030.8	0.0203 mg/L	0.0203 mg/L	20:31:01
2	Mg 279.077†	19502.6	19242.9	0.8726 mg/L	0.8726 mg/L	20:30:41
2	Mn 257.610†	97949.9	95813.5	0.0936 mg/L	0.0936 mg/L	20:30:41
2	Mo 202.031†	14.2	6.1	-0.0012 mg/L	-0.0012 mg/L	20:31:01
2	Na 330.237†	4589.7	3370.9	7.713 mg/L	7.713 mg/L	20:30:41
2	Ni 231.604†	366.2	-0.4	-0.0020 mg/L	-0.0020 mg/L	20:31:01
2	Pb 220.353†	-96.6	25.5	0.0012 mg/L	0.0012 mg/L	20:31:01
2	Sb 206.836†	76.5	-4.4	-0.0009 mg/L	-0.0009 mg/L	20:31:01
2	Se 196.026†	-7.7	0.8	-0.0007 mg/L	-0.0007 mg/L	20:31:01
2	Sn 189.927†	70.2	-6.4	-0.0089 mg/L	-0.0089 mg/L	20:31:01
2	Ti 337.279†	1108.5	162.4	-0.0006 mg/L	-0.0006 mg/L	20:30:41
2	Tl 190.801†	-8.1	3.7	0.0214 mg/L	0.0214 mg/L	20:31:01
2	V 292.402†	2400.7	-90.7	-0.0007 mg/L	-0.0007 mg/L	20:30:41
2	Zn 213.857†	1377.3	403.5	0.0037 mg/L	0.0037 mg/L	20:31:01

Mean Data: BF62207-SD1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 360.073	2479693.2					2102.03	0.08%
Ag 328.068†	89.4	0.0005 mg/L		0.00005	0.0005 mg/L	0.00005	9.67%
Al 237.313†	37.1	0.0022 mg/L		0.00189	0.0022 mg/L	0.00189	84.92%
As 188.979†	-2.2	-0.0025 mg/L		0.00211	-0.0025 mg/L	0.00211	84.12%
B 182.528†	23.9	0.0188 mg/L		0.00152	0.0188 mg/L	0.00152	8.09%
Ba 233.527†	1140.3	0.0049 mg/L		0.00001	0.0049 mg/L	0.00001	0.20%
Be 313.107†	-17.2	-0.0001 mg/L		0.00001	-0.0001 mg/L	0.00001	11.72%
Ca 315.886†	747182.7	5.017 mg/L		0.0018	5.017 mg/L	0.0018	0.04%
Cd 228.802†	-18.2	0.0000 mg/L		0.00013	0.0000 mg/L	0.00013	552.99%
Co 228.616†	13.3	-0.0018 mg/L		0.00008	-0.0018 mg/L	0.00008	4.44%
Cr 267.716†	-53.3	-0.0016 mg/L		0.00003	-0.0016 mg/L	0.00003	2.02%
Cu 324.752†	-106.2	-0.0008 mg/L		0.00012	-0.0008 mg/L	0.00012	15.31%
Fe 238.204†	2704.1	0.0141 mg/L		0.00039	0.0141 mg/L	0.00039	2.74%
Fe 234.349†	1035.7	0.0204 mg/L		0.00017	0.0204 mg/L	0.00017	0.81%
Mg 279.077†	19204.6	0.8708 mg/L		0.00247	0.8708 mg/L	0.00247	0.28%
Mn 257.610†	95424.8	0.0932 mg/L		0.00055	0.0932 mg/L	0.00055	0.59%
Mo 202.031†	7.4	-0.0011 mg/L		0.00014	-0.0011 mg/L	0.00014	13.11%
Na 330.237†	3309.7	7.585 mg/L		0.1811	7.585 mg/L	0.1811	2.39%
Ni 231.604†	9.2	-0.0018 mg/L		0.00024	-0.0018 mg/L	0.00024	13.15%
Pb 220.353†	15.8	0.0001 mg/L		0.00152	0.0001 mg/L	0.00152	>999.9%
Sb 206.836†	-7.4	-0.0017 mg/L		0.00118	-0.0017 mg/L	0.00118	67.98%
Se 196.026†	4.0	0.0038 mg/L		0.00640	0.0038 mg/L	0.00640	168.26%

Sn 189.927†	-8.8	-0.0096 mg/L	0.00106	-0.0096 mg/L	0.00106	11.04%
Ti 337.279†	131.7	-0.0006 mg/L	0.00006	-0.0006 mg/L	0.00006	9.32%
Tl 190.801†	6.4	0.0238 mg/L	0.00342	0.0238 mg/L	0.00342	14.37%
V 292.402†	-98.1	-0.0008 mg/L	0.00004	-0.0008 mg/L	0.00004	5.59%
Zn 213.857†	400.5	0.0036 mg/L	0.00005	0.0036 mg/L	0.00005	1.30%

Dilution Check: BF62207-SD1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.0001	0.0005	0.000	mg/L	350.0
Al 237.313	0.0000	0.0022	0.002	mg/L	-6505.2
As 188.979	0.0008	-0.0025	0.002	mg/L	429.8
B 182.528	0.0112	0.0188	0.002	mg/L	68.1
Ba 233.527	0.0058	0.0049	0.000	mg/L	15.8
Be 313.107	0.0000	-0.0001	0.000	mg/L	-294.3
Ca 315.886	4.926	5.017	0.002	mg/L	1.9
Cd 228.802	0.0000	0.0000	0.000	mg/L	45.1
Co 228.616	-0.0002	-0.0018	0.000	mg/L	-648.3
Cr 267.716	-0.0004	-0.0016	0.000	mg/L	-330.5
Cu 324.752	0.0001	-0.0008	0.000	mg/L	1171.0
Fe 238.204	0.0193	0.0141	0.000	mg/L	27.0
Fe 234.349	0.0217	0.0204	0.000	mg/L	6.1
Mg 279.077	0.8701	0.8708	0.002	mg/L	0.1
Mn 257.610	0.0945	0.0932	0.001	mg/L	1.3
Mo 202.031	-0.0002	-0.0011	0.000	mg/L	-372.5
Na 330.237	7.876	7.585	0.181	mg/L	3.7
Ni 231.604	-0.0001	-0.0018	0.000	mg/L	-1301.9
Pb 220.353	0.0007	0.0001	0.002	mg/L	89.3
Sb 206.836	-0.0004	-0.0017	0.001	mg/L	-288.3
Se 196.026	0.0010	0.0038	0.006	mg/L	288.5
Sn 189.927	0.0015	-0.0096	0.001	mg/L	721.9
Ti 337.279	-0.0001	-0.0006	0.000	mg/L	-466.2
Tl 190.801	0.0039	0.0238	0.003	mg/L	505.5
V 292.402	-0.0001	-0.0008	0.000	mg/L	-716.5
Zn 213.857	0.0019	0.0036	0.000	mg/L	91.2

Sequence No.: 66  
 Sample ID: BF62207-PDS1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 56  
 Date Collected: 6/22/2006 8:32:38 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: BF62207-PDS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2483423.6	2483423.6					20:34:12
1	Ag 328.068†	85184.2	84571.7	0.2518	mg/L	0.2518	mg/L	20:34:17
1	Al 237.313†	22276.6	22255.7	2.454	mg/L	2.454	mg/L	20:34:17
1	As 188.979†	599.9	589.9	0.4937	mg/L	0.4937	mg/L	20:34:37
1	B 182.528†	661.9	685.5	0.5530	mg/L	0.5530	mg/L	20:34:37
1	Ba 233.527†	94829.1	93541.6	0.5136	mg/L	0.5136	mg/L	20:34:17
1	Be 313.107†	330149.7	319996.8	0.0508	mg/L	0.0508	mg/L	20:34:12
1	Ca 315.886†	4449967.2	4379182.1	29.48	mg/L	29.48	mg/L	20:34:12
1	Cd 228.802†	21347.1	20630.6	0.2459	mg/L	0.2459	mg/L	20:34:17
1	Co 228.616†	34931.1	34793.3	0.4871	mg/L	0.4871	mg/L	20:34:17
1	Cr 267.716†	78153.7	75202.2	0.4967	mg/L	0.4967	mg/L	20:34:17
1	Cu 324.752†	93749.7	90867.2	0.5037	mg/L	0.5037	mg/L	20:34:17
1	Fe 238.204†	332208.0	326172.0	2.579	mg/L	2.579	mg/L	20:34:17
1	Fe 234.349†	108128.8	106259.7	2.585	mg/L	2.585	mg/L	20:34:17
1	Mg 279.077†	202870.8	199781.3	9.075	mg/L	9.075	mg/L	20:34:17
1	Mn 257.610†	972558.1	956914.1	0.9584	mg/L	0.9584	mg/L	20:34:12
1	Mo 202.031†	6607.7	6499.2	0.4958	mg/L	0.4958	mg/L	20:34:37
1	Na 330.237†	32573.8	30919.8	65.39	mg/L	65.39	mg/L	20:34:17
1	Ni 231.604†	29073.9	28269.9	0.4950	mg/L	0.4950	mg/L	20:34:17
1	Pb 220.353†	4385.5	4439.7	0.4894	mg/L	0.4894	mg/L	20:34:37
1	Sb 206.836†	1904.2	1795.4	0.4869	mg/L	0.4869	mg/L	20:34:37
1	Se 196.026†	725.8	723.2	1.010	mg/L	1.010	mg/L	20:34:37

1	Sn 189.927†	1750.1	1647.8	0.5138 mg/L	0.5138 mg/L	20:34:37
1	Ti 337.279†	387390.6	380566.0	0.5050 mg/L	0.5050 mg/L	20:34:12
1	Tl 190.801†	549.9	553.2	0.5281 mg/L	0.5281 mg/L	20:34:37
1	V 292.402†	125791.9	121418.4	0.4982 mg/L	0.4982 mg/L	20:34:17
1	Zn 213.857†	48548.4	46854.2	0.4994 mg/L	0.4994 mg/L	20:34:17
2	Y 360.073	2465551.6	2465551.6			20:34:44
2	Ag 328.068†	84264.2	84267.2	0.2509 mg/L	0.2509 mg/L	20:34:50
2	Al 237.313†	22077.4	22217.0	2.450 mg/L	2.450 mg/L	20:34:50
2	As 188.979†	603.5	597.7	0.5003 mg/L	0.5003 mg/L	20:35:10
2	B 182.528†	652.6	681.0	0.5494 mg/L	0.5494 mg/L	20:35:10
2	Ba 233.527†	94066.5	93462.1	0.5131 mg/L	0.5131 mg/L	20:34:50
2	Be 313.107†	328438.2	320655.9	0.0509 mg/L	0.0509 mg/L	20:34:44
2	Ca 315.886†	4426931.1	4388097.7	29.54 mg/L	29.54 mg/L	20:34:44
2	Cd 228.802†	21262.7	20699.3	0.2467 mg/L	0.2467 mg/L	20:34:50
2	Co 228.616†	34630.1	34744.0	0.4864 mg/L	0.4864 mg/L	20:34:50
2	Cr 267.716†	77521.3	75132.9	0.4962 mg/L	0.4962 mg/L	20:34:50
2	Cu 324.752†	92260.7	90059.5	0.4992 mg/L	0.4992 mg/L	20:34:50
2	Fe 238.204†	329912.5	326266.4	2.580 mg/L	2.580 mg/L	20:34:50
2	Fe 234.349†	107292.3	106201.8	2.583 mg/L	2.583 mg/L	20:34:50
2	Mg 279.077†	201490.7	199860.5	9.079 mg/L	9.079 mg/L	20:34:50
2	Mn 257.610†	968192.7	959526.5	0.9610 mg/L	0.9610 mg/L	20:34:44
2	Mo 202.031†	6636.5	6575.0	0.5016 mg/L	0.5016 mg/L	20:35:10
2	Na 330.237†	32252.5	30833.5	65.20 mg/L	65.20 mg/L	20:34:50
2	Ni 231.604†	28802.7	28208.4	0.4939 mg/L	0.4939 mg/L	20:34:50
2	Pb 220.353†	4380.4	4466.0	0.4923 mg/L	0.4923 mg/L	20:35:10
2	Sb 206.836†	1883.8	1788.7	0.4851 mg/L	0.4851 mg/L	20:35:10
2	Se 196.026†	729.3	731.9	1.022 mg/L	1.022 mg/L	20:35:10
2	Sn 189.927†	1751.1	1661.3	0.5181 mg/L	0.5181 mg/L	20:35:10
2	Ti 337.279†	384855.0	380816.3	0.5054 mg/L	0.5054 mg/L	20:34:44
2	Tl 190.801†	552.9	560.1	0.5345 mg/L	0.5345 mg/L	20:35:10
2	V 292.402†	124467.9	-121003.2	0.4965 mg/L	0.4965 mg/L	20:34:50
2	Zn 213.857†	48257.3	46912.0	0.5000 mg/L	0.5000 mg/L	20:34:50

## Mean Data: BF62207-PDS1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2474487.6						12637.46	0.51%
Ag 328.068†	84419.5	0.2514 mg/L		0.00064	0.2514 mg/L		0.00064	0.25%
Al 237.313†	22236.3	2.452 mg/L		0.0030	2.452 mg/L		0.0030	0.12%
As 188.979†	593.8	0.4970 mg/L		0.00463	0.4970 mg/L		0.00463	0.93%
B 182.528†	683.2	0.5512 mg/L		0.00258	0.5512 mg/L		0.00258	0.47%
Ba 233.527†	93501.8	0.5134 mg/L		0.00031	0.5134 mg/L		0.00031	0.06%
Be 313.107†	320326.4	0.0509 mg/L		0.00007	0.0509 mg/L		0.00007	0.15%
Ca 315.886†	4383639.9	29.51 mg/L		0.042	29.51 mg/L		0.042	0.14%
Cd 228.802†	20665.0	0.2463 mg/L		0.00057	0.2463 mg/L		0.00057	0.23%
Co 228.616†	34768.7	0.4867 mg/L		0.00049	0.4867 mg/L		0.00049	0.10%
Cr 267.716†	75167.5	0.4965 mg/L		0.00033	0.4965 mg/L		0.00033	0.07%
Cu 324.752†	90463.4	0.5015 mg/L		0.00317	0.5015 mg/L		0.00317	0.63%
Fe 238.204†	326219.2	2.580 mg/L		0.0005	2.580 mg/L		0.0005	0.02%
Fe 234.349†	106230.7	2.584 mg/L		0.0010	2.584 mg/L		0.0010	0.04%
Mg 279.077†	199820.9	9.077 mg/L		0.0026	9.077 mg/L		0.0026	0.03%
Mn 257.610†	958220.3	0.9597 mg/L		0.00185	0.9597 mg/L		0.00185	0.19%
Mo 202.031†	6537.1	0.4987 mg/L		0.00410	0.4987 mg/L		0.00410	0.82%
Na 330.237†	30876.7	65.29 mg/L		0.128	65.29 mg/L		0.128	0.20%
Ni 231.604†	28239.1	0.4945 mg/L		0.00076	0.4945 mg/L		0.00076	0.15%
Pb 220.353†	4452.8	0.4909 mg/L		0.00206	0.4909 mg/L		0.00206	0.42%
Sb 206.836†	1792.0	0.4860 mg/L		0.00130	0.4860 mg/L		0.00130	0.27%
Se 196.026†	727.6	1.016 mg/L		0.0086	1.016 mg/L		0.0086	0.84%
Sn 189.927†	1654.6	0.5159 mg/L		0.00302	0.5159 mg/L		0.00302	0.59%
Ti 337.279†	380691.1	0.5052 mg/L		0.00024	0.5052 mg/L		0.00024	0.05%
Tl 190.801†	556.7	0.5313 mg/L		0.00450	0.5313 mg/L		0.00450	0.85%
V 292.402†	121210.8	0.4974 mg/L		0.00120	0.4974 mg/L		0.00120	0.24%
Zn 213.857†	46883.1	0.4997 mg/L		0.00045	0.4997 mg/L		0.00045	0.09%

## Matrix Recovery Check: BF62207-PDS1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.2505	0.2514	0.001	mg/L	100.3
Al 237.313	2.500	2.452	0.003	mg/L	98.1

As 188.979	0.5038	0.4970	0.005	mg/L	98.6
B 182.528	0.5559	0.5512	0.003	mg/L	99.1
Ba 233.527	0.5290	0.5134	0.000	mg/L	96.9
Be 313.107	0.0499	0.0509	0.000	mg/L	102.0
Ca 315.886	29.63	29.51	0.042	mg/L	97.6
Cd 228.802	0.2502	0.2463	0.001	mg/L	98.4
Co 228.616	0.4988	0.4867	0.000	mg/L	97.6
Cr 267.716	0.4982	0.4965	0.000	mg/L	99.7
Cu 324.752	0.5004	0.5015	0.003	mg/L	100.2
Fe 238.204	2.596	2.580	0.001	mg/L	99.3
Fe 234.349	2.609	2.584	0.001	mg/L	99.0
Mg 279.077	9.350	9.077	0.003	mg/L	94.5
Mn 257.610	0.9723	0.9597	0.002	mg/L	97.5
Mo 202.031	0.4988	0.4987	0.004	mg/L	100.0
Na 330.237	64.38	65.29	0.128	mg/L	103.7
Ni 231.604	0.4994	0.4945	0.001	mg/L	99.0
Pb 220.353	0.5036	0.4909	0.002	mg/L	97.5
Sb 206.836	0.4978	0.4860	0.001	mg/L	97.6
Se 196.026	1.005	1.016	0.009	mg/L	101.1
Sn 189.927	0.5077	0.5159	0.003	mg/L	101.6
Ti 337.279	0.4995	0.5052	0.000	mg/L	101.1
Tl 190.801	0.5196	0.5313	0.005	mg/L	102.3
V 292.402	0.4995	0.4974	0.001	mg/L	99.6
Zn 213.857	0.5095	0.4997	0.000	mg/L	98.0

Sequence No.: 67

Sample ID: 0606346-07DIS

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 57

Date Collected: 6/22/2006 8:36:47 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 0606346-07DIS

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2506308.6	2506308.6			20:38:20
1	Ag 328.068†	-526.8	169.3	0.0007 mg/L	0.0007 mg/L	20:38:26
1	Al 237.313†	-233.5	90.0	0.0026 mg/L	0.0026 mg/L	20:38:46
1	As 188.979†	0.9	-0.1	-0.0008 mg/L	-0.0008 mg/L	20:38:46
1	B 182.528†	55.1	87.4	0.0700 mg/L	0.0700 mg/L	20:38:46
1	Ba 233.527†	6192.9	6198.1	0.0327 mg/L	0.0327 mg/L	20:38:26
1	Be 313.107†	5049.1	-203.7	-0.0001 mg/L	-0.0001 mg/L	20:38:26
1	Ca 315.886†	3946069.3	3847466.2	25.90 mg/L	25.90 mg/L	20:38:20
1	Cd 228.802†	387.2	-13.9	0.0001 mg/L	0.0001 mg/L	20:38:46
1	Co 228.616†	-342.5	59.3	-0.0011 mg/L	-0.0011 mg/L	20:38:46
1	Cr 267.716†	1750.3	-54.6	-0.0017 mg/L	-0.0017 mg/L	20:38:26
1	Cu 324.752†	1688.3	191.1	0.0009 mg/L	0.0009 mg/L	20:38:26
1	Fe 238.204†	14090.4	12766.9	0.0938 mg/L	0.0938 mg/L	20:38:26
1	Fe 234.349†	5084.9	4737.5	0.1107 mg/L	0.1107 mg/L	20:38:26
1	Mg 279.077†	95865.2	93541.4	4.251 mg/L	4.251 mg/L	20:38:26
1	Mn 257.610†	617934.5	602128.5	0.6021 mg/L	0.6021 mg/L	20:38:20
1	Mo 202.031†	32.6	23.8	0.0002 mg/L	0.0002 mg/L	20:38:46
1	Na 330.237†	19138.7	17516.9	37.33 mg/L	37.33 mg/L	20:38:26
1	Ni 231.604†	483.0	109.5	0.0000 mg/L	0.0000 mg/L	20:38:46
1	Pb 220.353†	-76.1	46.6	0.0035 mg/L	0.0035 mg/L	20:38:46
1	Sb 206.836†	76.7	-5.0	-0.0011 mg/L	-0.0011 mg/L	20:38:46
1	Se 196.026†	-1.9	6.5	0.0073 mg/L	0.0073 mg/L	20:38:46
1	Sn 189.927†	132.6	53.7	0.0101 mg/L	0.0101 mg/L	20:38:46
1	Ti 337.279†	1155.2	195.7	-0.0005 mg/L	-0.0005 mg/L	20:38:26
1	Tl 190.801†	4.5	16.1	0.0398 mg/L	0.0398 mg/L	20:38:46
1	V 292.402†	2529.2	8.1	-0.0003 mg/L	-0.0003 mg/L	20:38:26
1	Zn 213.857†	1972.4	969.0	0.0097 mg/L	0.0097 mg/L	20:38:46
2	Y 360.073	2482949.7	2482949.7			20:38:52
2	Ag 328.068†	-598.1	94.2	0.0005 mg/L	0.0005 mg/L	20:38:57
2	Al 237.313†	-261.9	59.9	-0.0008 mg/L	-0.0008 mg/L	20:39:18
2	As 188.979†	4.3	3.3	0.0021 mg/L	0.0021 mg/L	20:39:18
2	B 182.528†	45.0	78.0	0.0625 mg/L	0.0625 mg/L	20:39:18
2	Ba 233.527†	6117.3	6180.5	0.0326 mg/L	0.0326 mg/L	20:38:57
2	Be 313.107†	5137.2	-70.6	-0.0001 mg/L	-0.0001 mg/L	20:38:57
2	Ca 315.886†	3928756.5	3866638.5	26.03 mg/L	26.03 mg/L	20:38:52

2	Cd 228.802†	383.2	-14.3	0.0001 mg/L	0.0001 mg/L	20:39:18
2	Co 228.616†	-336.5	62.1	-0.0011 mg/L	-0.0011 mg/L	20:39:18
2	Cr 267.716†	1704.0	-84.1	-0.0019 mg/L	-0.0019 mg/L	20:38:57
2	Cu 324.752†	1682.2	200.6	0.0009 mg/L	0.0009 mg/L	20:38:57
2	Fe 238.204†	14077.6	12883.6	0.0948 mg/L	0.0948 mg/L	20:38:57
2	Fe 234.349†	5075.4	4774.9	0.1117 mg/L	0.1117 mg/L	20:38:57
2	Mg 279.077†	95724.8	94283.2	4.285 mg/L	4.285 mg/L	20:38:57
2	Mn 257.610†	614282.2	604203.8	0.6041 mg/L	0.6041 mg/L	20:38:52
2	Mo 202.031†	26.6	18.3	-0.0003 mg/L	-0.0003 mg/L	20:39:18
2	Na 330.237†	19053.2	17608.4	37.52 mg/L	37.52 mg/L	20:38:57
2	Ni 231.604†	468.5	99.6	-0.0002 mg/L	-0.0002 mg/L	20:39:18
2	Pb 220.353†	-87.8	34.4	0.0021 mg/L	0.0021 mg/L	20:39:18
2	Sb 206.836†	73.1	-7.9	-0.0019 mg/L	-0.0019 mg/L	20:39:18
2	Se 196.026†	-2.8	5.7	0.0062 mg/L	0.0062 mg/L	20:39:18
2	Sn 189.927†	130.6	53.0	0.0099 mg/L	0.0099 mg/L	20:39:18
2	Ti 337.279†	1217.4	267.6	-0.0004 mg/L	-0.0004 mg/L	20:38:57
2	Tl 190.801†	-20.3	-8.3	0.0176 mg/L	0.0176 mg/L	20:39:18
2	V 292.402†	2567.1	68.7	-0.0001 mg/L	-0.0001 mg/L	20:38:57
2	Zn 213.857†	1971.1	985.8	0.0099 mg/L	0.0099 mg/L	20:39:18

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Mean Data: 0606346-07DIS

Analyte	Mean Corrected		Calib		Sample		Std.Dev.	RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units		
Y 360.073	2494629.1						16517.22	0.66%
Ag 328.068†	131.8	0.0006	mg/L	0.00016	0.0006	mg/L	0.00016	26.12%
Al 237.313†	75.0	0.0009	mg/L	0.00241	0.0009	mg/L	0.00241	261.73%
As 188.979†	1.6	0.0006	mg/L	0.00200	0.0006	mg/L	0.00200	315.57%
B 182.528†	82.7	0.0662	mg/L	0.00534	0.0662	mg/L	0.00534	8.06%
Ba 233.527†	6189.3	0.0327	mg/L	0.00007	0.0327	mg/L	0.00007	0.21%
Be 313.107†	-137.2	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	11.09%
Ca 315.886†	3857052.4	25.96	mg/L	0.091	25.96	mg/L	0.091	0.35%
Cd 228.802†	-14.1	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	15.11%
Co 228.616†	60.7	-0.0011	mg/L	0.00003	-0.0011	mg/L	0.00003	2.50%
Cr 267.716†	-69.4	-0.0018	mg/L	0.00014	-0.0018	mg/L	0.00014	7.63%
Cu 324.752†	195.9	0.0009	mg/L	0.00004	0.0009	mg/L	0.00004	4.12%
Fe 238.204†	12825.2	0.0943	mg/L	0.00065	0.0943	mg/L	0.00065	0.69%
Fe 234.349†	4756.2	0.1112	mg/L	0.00065	0.1112	mg/L	0.00065	0.58%
Mg 279.077†	93912.3	4.268	mg/L	0.0238	4.268	mg/L	0.0238	0.56%
Mn 257.610†	603166.2	0.6031	mg/L	0.00147	0.6031	mg/L	0.00147	0.24%
Mo 202.031†	21.1	-0.0001	mg/L	0.00030	-0.0001	mg/L	0.00030	521.15%
Na 330.237†	17562.7	37.43	mg/L	0.135	37.43	mg/L	0.135	0.36%
Ni 231.604†	104.6	-0.0001	mg/L	0.00012	-0.0001	mg/L	0.00012	90.49%
Pb 220.353†	40.5	0.0028	mg/L	0.00095	0.0028	mg/L	0.00095	34.06%
Sb 206.836†	-6.5	-0.0015	mg/L	0.00057	-0.0015	mg/L	0.00057	38.44%
Se 196.026†	6.1	0.0067	mg/L	0.00081	0.0067	mg/L	0.00081	12.00%
Sn 189.927†	53.4	0.0100	mg/L	0.00016	0.0100	mg/L	0.00016	1.60%
Ti 337.279†	231.6	-0.0005	mg/L	0.00007	-0.0005	mg/L	0.00007	13.93%
Tl 190.801†	3.9	0.0287	mg/L	0.01570	0.0287	mg/L	0.01570	54.72%
V 292.402†	38.4	-0.0002	mg/L	0.00017	-0.0002	mg/L	0.00017	87.19%
Zn 213.857†	977.4	0.0098	mg/L	0.00013	0.0098	mg/L	0.00013	1.31%

Sequence No.: 68

Sample ID: 0606346-08DIS

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 58

Date Collected: 6/22/2006 8:40:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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Replicate Data: 0606346-08DIS

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2484934.2	2484934.2					20:42:29
1	Ag 328.068†	-575.3	117.1	0.0006	mg/L	0.0006	mg/L	20:42:34
1	Al 237.313†	-273.0	49.2	-0.0021	mg/L	-0.0021	mg/L	20:42:54
1	As 188.979†	0.8	-0.2	-0.0009	mg/L	-0.0009	mg/L	20:42:54
1	B 182.528†	53.1	85.9	0.0688	mg/L	0.0688	mg/L	20:42:54
1	Ba 233.527†	6144.8	6202.7	0.0328	mg/L	0.0328	mg/L	20:42:34
1	Be 313.107†	4938.7	-270.0	-0.0002	mg/L	-0.0002	mg/L	20:42:34
1	Ca 315.886†	4094730.0	4026897.5	27.11	mg/L	27.11	mg/L	20:42:29



1	Cd	228.802†	381.5	-16.3	0.0000 mg/L	0.0000 mg/L	20:42:54
1	Co	228.616†	-323.5	75.2	-0.0009 mg/L	-0.0009 mg/L	20:42:54
1	Cr	267.716†	1789.9	-1.0	-0.0014 mg/L	-0.0014 mg/L	20:42:34
1	Cu	324.752†	1636.8	154.6	0.0007 mg/L	0.0007 mg/L	20:42:34
1	Fe	238.204†	11923.0	10752.0	0.0779 mg/L	0.0779 mg/L	20:42:34
1	Fe	234.349†	4397.3	4103.5	0.0953 mg/L	0.0953 mg/L	20:42:34
1	Mg	279.077†	97655.3	96107.8	4.368 mg/L	4.368 mg/L	20:42:34
1	Mn	257.610†	664646.7	653288.8	0.6534 mg/L	0.6534 mg/L	20:42:29
1	Mo	202.031†	24.9	16.6	-0.0004 mg/L	-0.0004 mg/L	20:42:54
1	Na	330.237†	19329.8	17865.7	38.06 mg/L	38.06 mg/L	20:42:34
1	Ni	231.604†	477.5	108.2	-0.0001 mg/L	-0.0001 mg/L	20:42:54
1	Pb	220.353†	-70.9	51.2	0.0040 mg/L	0.0040 mg/L	20:42:54
1	Sb	206.836†	74.1	-6.9	-0.0016 mg/L	-0.0016 mg/L	20:42:54
1	Se	196.026†	-7.5	1.0	-0.0004 mg/L	-0.0004 mg/L	20:42:54
1	Sn	189.927†	127.8	50.1	0.0090 mg/L	0.0090 mg/L	20:42:54
1	Ti	337.279†	1142.1	192.5	-0.0005 mg/L	-0.0005 mg/L	20:42:34
1	Tl	190.801†	-9.1	2.8	0.0284 mg/L	0.0284 mg/L	20:42:54
1	V	292.402†	2456.9	-41.8	-0.0005 mg/L	-0.0005 mg/L	20:42:34
1	Zn	213.857†	1821.4	836.9	0.0083 mg/L	0.0083 mg/L	20:42:54
2	Y	360.073	2480227.4	2480227.4			20:43:01
2	Ag	328.068†	-541.3	149.5	0.0007 mg/L	0.0007 mg/L	20:43:06
2	Al	237.313†	-286.7	35.1	-0.0037 mg/L	-0.0037 mg/L	20:43:26
2	As	188.979†	3.6	2.6	0.0014 mg/L	0.0014 mg/L	20:43:26
2	B	182.528†	51.0	83.9	0.0673 mg/L	0.0673 mg/L	20:43:26
2	Ba	233.527†	6114.3	6184.1	0.0327 mg/L	0.0327 mg/L	20:43:06
2	Be	313.107†	4987.1	-213.1	-0.0001 mg/L	-0.0001 mg/L	20:43:06
2	Ca	315.886†	4094652.0	4034468.4	27.16 mg/L	27.16 mg/L	20:43:01
2	Cd	228.802†	372.3	-24.6	-0.0001 mg/L	-0.0001 mg/L	20:43:26
2	Co	228.616†	-316.1	81.8	-0.0008 mg/L	-0.0008 mg/L	20:43:26
2	Cr	267.716†	1726.1	-60.5	-0.0018 mg/L	-0.0018 mg/L	20:43:06
2	Cu	324.752†	1617.8	139.0	0.0006 mg/L	0.0006 mg/L	20:43:06
2	Fe	238.204†	11893.0	10744.7	0.0778 mg/L	0.0778 mg/L	20:43:06
2	Fe	234.349†	4406.0	4120.3	0.0957 mg/L	0.0957 mg/L	20:43:06
2	Mg	279.077†	97176.2	95817.8	4.355 mg/L	4.355 mg/L	20:43:06
2	Mn	257.610†	663390.9	653291.9	0.6534 mg/L	0.6534 mg/L	20:43:01
2	Mo	202.031†	10.2	2.1	-0.0015 mg/L	-0.0015 mg/L	20:43:26
2	Na	330.237†	19117.8	17692.7	37.70 mg/L	37.70 mg/L	20:43:06
2	Ni	231.604†	466.0	97.7	-0.0003 mg/L	-0.0003 mg/L	20:43:26
2	Pb	220.353†	-105.9	16.5	0.0002 mg/L	0.0002 mg/L	20:43:26
2	Sb	206.836†	76.9	-4.1	-0.0008 mg/L	-0.0008 mg/L	20:43:26
2	Se	196.026†	-2.7	5.8	0.0063 mg/L	0.0063 mg/L	20:43:26
2	Sn	189.927†	128.7	51.2	0.0093 mg/L	0.0093 mg/L	20:43:26
2	Ti	337.279†	1093.9	147.1	-0.0006 mg/L	-0.0006 mg/L	20:43:06
2	Tl	190.801†	-16.1	-4.2	0.0221 mg/L	0.0221 mg/L	20:43:26
2	V	292.402†	2490.7	-3.9	-0.0004 mg/L	-0.0004 mg/L	20:43:06
2	Zn	213.857†	1820.5	839.4	0.0084 mg/L	0.0084 mg/L	20:43:26

Mean Data: 0606346-08DIS

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2482580.8				3328.25	0.13%
Ag 328.068†	133.3	0.0006 mg/L	0.00007	0.0006 mg/L	0.00007	11.23%
Al 237.313†	42.2	-0.0029 mg/L	0.00111	-0.0029 mg/L	0.00111	38.12%
As 188.979†	1.2	0.0003 mg/L	0.00164	0.0003 mg/L	0.00164	564.45%
B 182.528†	84.9	0.0680 mg/L	0.00111	0.0680 mg/L	0.00111	1.63%
Ba 233.527†	6193.4	0.0327 mg/L	0.00007	0.0327 mg/L	0.00007	0.22%
Be 313.107†	-241.5	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	4.21%
Ca 315.886†	4030682.9	27.13 mg/L	0.036	27.13 mg/L	0.036	0.13%
Cd 228.802†	-20.5	0.0000 mg/L	0.00008	0.0000 mg/L	0.00008	490.31%
Co 228.616†	78.5	-0.0009 mg/L	0.00007	-0.0009 mg/L	0.00007	7.56%
Cr 267.716†	-30.7	-0.0016 mg/L	0.00028	-0.0016 mg/L	0.00028	17.65%
Cu 324.752†	146.8	0.0006 mg/L	0.00006	0.0006 mg/L	0.00006	9.68%
Fe 238.204†	10748.4	0.0778 mg/L	0.00004	0.0778 mg/L	0.00004	0.05%
Fe 234.349†	4111.9	0.0955 mg/L	0.00029	0.0955 mg/L	0.00029	0.30%
Mg 279.077†	95962.8	4.362 mg/L	0.0093	4.362 mg/L	0.0093	0.21%
Mn 257.610†	653290.3	0.6534 mg/L	0.00000	0.6534 mg/L	0.00000	0.00%
Mo 202.031†	9.3	-0.0010 mg/L	0.00078	-0.0010 mg/L	0.00078	81.71%
Na 330.237†	17779.2	37.88 mg/L	0.256	37.88 mg/L	0.256	0.68%
Ni 231.604†	102.9	-0.0002 mg/L	0.00013	-0.0002 mg/L	0.00013	79.34%
Pb 220.353†	33.8	0.0021 mg/L	0.00270	0.0021 mg/L	0.00270	130.92%

Sb 206.836†	-5.5	-0.0012 mg/L	0.00057	-0.0012 mg/L	0.00057	46.86
Se 196.026†	3.4	0.0030 mg/L	0.00476	0.0030 mg/L	0.00476	161.20
Sn 189.927†	50.7	0.0091 mg/L	0.00025	0.0091 mg/L	0.00025	2.75
Ti 337.279†	169.8	-0.0006 mg/L	0.00004	-0.0006 mg/L	0.00004	7.53
Tl 190.801†	-0.7	0.0252 mg/L	0.00446	0.0252 mg/L	0.00446	17.69
V 292.402†	-22.9	-0.0004 mg/L	0.00011	-0.0004 mg/L	0.00011	23.99
Zn 213.857†	838.1	0.0083 mg/L	0.00002	0.0083 mg/L	0.00002	0.24

Sequence No.: 69

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/22/2006 8:45:04 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2498755.9	2498755.9			20:46:3
1	Ag 328.068†	84173.7	83068.0	0.2474 mg/L	0.2474 mg/L	20:46:4
1	Al 237.313†	22409.4	22251.0	2.460 mg/L	2.460 mg/L	20:46:4
1	As 188.979†	613.7	599.7	0.5020 mg/L	0.5020 mg/L	20:47:0
1	B 182.528†	597.1	618.1	0.4986 mg/L	0.4986 mg/L	20:47:0
1	Ba 233.527†	91778.9	89983.3	0.4940 mg/L	0.4940 mg/L	20:46:4
1	Be 313.107†	327376.7	315287.7	0.0501 mg/L	0.0501 mg/L	20:46:3
1	Ca 315.886†	763748.1	744423.0	4.999 mg/L	4.999 mg/L	20:46:3
1	Cd 228.802†	21428.8	20581.6	0.2453 mg/L	0.2453 mg/L	20:46:4
1	Co 228.616†	35660.1	35295.7	0.4941 mg/L	0.4941 mg/L	20:46:4
1	Cr 267.716†	78424.2	74994.8	0.4955 mg/L	0.4955 mg/L	20:46:4
1	Cu 324.752†	91405.9	88006.8	0.4879 mg/L	0.4879 mg/L	20:46:4
1	Fe 238.204†	319748.0	311969.3	2.467 mg/L	2.467 mg/L	20:46:4
1	Fe 234.349†	103569.0	101143.4	2.460 mg/L	2.460 mg/L	20:46:4
1	Mg 279.077†	110759.2	108401.7	4.921 mg/L	4.921 mg/L	20:46:4
1	Mn 257.610†	515704.3	503893.8	0.5035 mg/L	0.5035 mg/L	20:46:3
1	Mo 202.031†	6705.3	6554.8	0.5000 mg/L	0.5000 mg/L	20:47:0
1	Na 330.237†	12570.6	11144.8	23.98 mg/L	23.98 mg/L	20:46:4
1	Ni 231.604†	29214.7	28232.0	0.4943 mg/L	0.4943 mg/L	20:46:4
1	Pb 220.353†	4517.7	4542.5	0.5007 mg/L	0.5007 mg/L	20:47:0
1	Sb 206.836†	1932.4	1811.5	0.4913 mg/L	0.4913 mg/L	20:47:0
1	Se 196.026†	729.4	722.3	1.009 mg/L	1.009 mg/L	20:47:0
1	Sn 189.927†	1683.2	1571.7	0.4898 mg/L	0.4898 mg/L	20:47:0
1	Ti 337.279†	390106.3	380883.2	0.5055 mg/L	0.5055 mg/L	20:46:3
1	Tl 190.801†	555.3	555.1	0.5233 mg/L	0.5233 mg/L	20:47:0
1	V 292.402†	126380.7	121234.6	0.4974 mg/L	0.4974 mg/L	20:46:4
1	Zn 213.857†	47933.0	45958.5	0.4898 mg/L	0.4898 mg/L	20:46:4
2	Y 360.073	2497380.6	2497380.6			20:47:1
2	Ag 328.068†	84778.3	83705.3	0.2492 mg/L	0.2492 mg/L	20:47:1
2	Al 237.313†	22459.9	22312.5	2.467 mg/L	2.467 mg/L	20:47:1
2	As 188.979†	608.5	595.0	0.4980 mg/L	0.4980 mg/L	20:47:3
2	B 182.528†	598.1	619.3	0.4996 mg/L	0.4996 mg/L	20:47:3
2	Ba 233.527†	92189.2	90434.5	0.4965 mg/L	0.4965 mg/L	20:47:1
2	Be 313.107†	327522.2	315606.7	0.0501 mg/L	0.0501 mg/L	20:47:1
2	Ca 315.886†	765005.3	746065.8	5.010 mg/L	5.010 mg/L	20:47:1
2	Cd 228.802†	21553.0	20714.8	0.2469 mg/L	0.2469 mg/L	20:47:1
2	Co 228.616†	35884.3	35534.5	0.4975 mg/L	0.4975 mg/L	20:47:1
2	Cr 267.716†	78902.7	75505.6	0.4988 mg/L	0.4988 mg/L	20:47:1
2	Cu 324.752†	92160.3	88794.8	0.4922 mg/L	0.4922 mg/L	20:47:1
2	Fe 238.204†	321799.8	314151.0	2.484 mg/L	2.484 mg/L	20:47:1
2	Fe 234.349†	104190.5	101807.9	2.476 mg/L	2.476 mg/L	20:47:1
2	Mg 279.077†	111280.0	108971.3	4.947 mg/L	4.947 mg/L	20:47:1
2	Mn 257.610†	515849.5	504314.0	0.5039 mg/L	0.5039 mg/L	20:47:1
2	Mo 202.031†	6691.7	6545.1	0.4993 mg/L	0.4993 mg/L	20:47:3
2	Na 330.237†	12626.3	11206.2	24.11 mg/L	24.11 mg/L	20:47:1
2	Ni 231.604†	29421.9	28450.6	0.4982 mg/L	0.4982 mg/L	20:47:1
2	Pb 220.353†	4502.4	4530.0	0.4994 mg/L	0.4994 mg/L	20:47:3
2	Sb 206.836†	1924.5	1804.7	0.4894 mg/L	0.4894 mg/L	20:47:3
2	Se 196.026†	721.6	715.1	0.9989 mg/L	0.9989 mg/L	20:47:3
2	Sn 189.927†	1672.0	1561.7	0.4867 mg/L	0.4867 mg/L	20:47:3
2	Ti 337.279†	390376.6	381358.2	0.5061 mg/L	0.5061 mg/L	20:47:1
2	Tl 190.801†	573.0	572.8	0.5395 mg/L	0.5395 mg/L	20:47:3

2	V 292.402†	127228.2	122132.7	0.5011 mg/L	0.5011 mg/L	20:47:15
2	Zn 213.857†	48151.6	46198.4	0.4923 mg/L	0.4923 mg/L	20:47:15

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2498068.3				972.50	0.04%
Ag 328.068†	83386.6	0.2483 mg/L	0.00134	0.2483 mg/L	0.00134	0.54%
QC value within limits for Ag 328.068		Recovery = 99.32%				
Al 237.313†	22281.7	2.463 mg/L	0.0048	2.463 mg/L	0.0048	0.19%
QC value within limits for Al 237.313		Recovery = 98.54%				
As 188.979†	597.4	0.5000 mg/L	0.00280	0.5000 mg/L	0.00280	0.56%
QC value within limits for As 188.979		Recovery = 100.00%				
B 182.528†	618.7	0.4991 mg/L	0.00074	0.4991 mg/L	0.00074	0.15%
QC value within limits for B 182.528		Recovery = 99.82%				
Ba 233.527†	90208.9	0.4952 mg/L	0.00176	0.4952 mg/L	0.00176	0.35%
QC value within limits for Ba 233.527		Recovery = 99.04%				
Be 313.107†	315447.2	0.0501 mg/L	0.00004	0.0501 mg/L	0.00004	0.07%
QC value within limits for Be 313.107		Recovery = 100.15%				
Ca 315.886†	745244.4	5.004 mg/L	0.0078	5.004 mg/L	0.0078	0.16%
QC value within limits for Ca 315.886		Recovery = 100.09%				
Cd 228.802†	20648.2	0.2461 mg/L	0.00114	0.2461 mg/L	0.00114	0.46%
QC value within limits for Cd 228.802		Recovery = 98.43%				
Co 228.616†	35415.1	0.4958 mg/L	0.00238	0.4958 mg/L	0.00238	0.48%
QC value within limits for Co 228.616		Recovery = 99.16%				
Cr 267.716†	75250.2	0.4971 mg/L	0.00239	0.4971 mg/L	0.00239	0.48%
QC value within limits for Cr 267.716		Recovery = 99.43%				
Cu 324.752†	88400.8	0.4900 mg/L	0.00309	0.4900 mg/L	0.00309	0.63%
QC value within limits for Cu 324.752		Recovery = 98.01%				
Fe 238.204†	313060.2	2.475 mg/L	0.0122	2.475 mg/L	0.0122	0.49%
QC value within limits for Fe 238.204		Recovery = 99.01%				
Fe 234.349†	101475.6	2.468 mg/L	0.0114	2.468 mg/L	0.0114	0.46%
QC value within limits for Fe 234.349		Recovery = 98.71%				
Mg 279.077†	108686.5	4.934 mg/L	0.0183	4.934 mg/L	0.0183	0.37%
QC value within limits for Mg 279.077		Recovery = 98.67%				
Mn 257.610†	504103.9	0.5037 mg/L	0.00030	0.5037 mg/L	0.00030	0.06%
QC value within limits for Mn 257.610		Recovery = 100.74%				
Mo 202.031†	6550.0	0.4996 mg/L	0.00052	0.4996 mg/L	0.00052	0.11%
QC value within limits for Mo 202.031		Recovery = 99.93%				
Na 330.237†	11175.5	24.05 mg/L	0.091	24.05 mg/L	0.091	0.38%
QC value within limits for Na 330.237		Recovery = 96.19%				
Ni 231.604†	28341.3	0.4962 mg/L	0.00272	0.4962 mg/L	0.00272	0.55%
QC value within limits for Ni 231.604		Recovery = 99.25%				
Pb 220.353†	4536.3	0.5001 mg/L	0.00098	0.5001 mg/L	0.00098	0.20%
QC value within limits for Pb 220.353		Recovery = 100.01%				
Sb 206.836†	1808.1	0.4904 mg/L	0.00134	0.4904 mg/L	0.00134	0.27%
QC value within limits for Sb 206.836		Recovery = 98.08%				
Se 196.026†	718.7	1.004 mg/L	0.0071	1.004 mg/L	0.0071	0.71%
QC value within limits for Se 196.026		Recovery = 100.39%				
Sn 189.927†	1566.7	0.4882 mg/L	0.00223	0.4882 mg/L	0.00223	0.46%
QC value within limits for Sn 189.927		Recovery = 97.65%				
Ti 337.279†	381120.7	0.5058 mg/L	0.00045	0.5058 mg/L	0.00045	0.09%
QC value within limits for Ti 337.279		Recovery = 101.15%				
Tl 190.801†	564.0	0.5314 mg/L	0.01140	0.5314 mg/L	0.01140	2.14%
QC value within limits for Tl 190.801		Recovery = 106.28%				
V 292.402†	121683.6	0.4993 mg/L	0.00261	0.4993 mg/L	0.00261	0.52%
QC value within limits for V 292.402		Recovery = 99.86%				
Zn 213.857†	46078.4	0.4911 mg/L	0.00180	0.4911 mg/L	0.00180	0.37%
QC value within limits for Zn 213.857		Recovery = 98.21%				

All analyte(s) passed QC.

Sequence No.: 70  
 Sample ID: ICCB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 1  
 Date Collected: 6/22/2006 8:49:13 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

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Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2484311.4	2484311.4					20:50:4
1	Ag 328.068†	-673.0	20.7	0.0003	mg/L	0.0003	mg/L	20:50:4
1	Al 237.313†	-317.3	5.5	0.0000	mg/L	0.0000	mg/L	20:51:1
1	As 188.979†	-0.6	-1.5	-0.0020	mg/L	-0.0020	mg/L	20:51:1
1	B 182.528†	-30.2	3.9	0.0026	mg/L	0.0026	mg/L	20:51:1
1	Ba 233.527†	-142.8	14.5	-0.0013	mg/L	-0.0013	mg/L	20:51:1
1	Be 313.107†	5301.0	87.8	-0.0001	mg/L	-0.0001	mg/L	20:50:4
1	Ca 315.886†	3525.5	378.8	-0.0130	mg/L	-0.0130	mg/L	20:50:4
1	Cd 228.802†	389.1	-8.7	0.0001	mg/L	0.0001	mg/L	20:51:1
1	Co 228.616†	-378.2	21.2	-0.0017	mg/L	-0.0017	mg/L	20:51:1
1	Cr 267.716†	1751.4	-38.4	-0.0014	mg/L	-0.0014	mg/L	20:50:4
1	Cu 324.752†	1381.1	-96.7	-0.0007	mg/L	-0.0007	mg/L	20:50:4
1	Fe 238.204†	876.1	-120.0	-0.0083	mg/L	-0.0083	mg/L	20:51:1
1	Fe 234.349†	178.9	-48.2	-0.0061	mg/L	-0.0061	mg/L	20:51:1
1	Mg 279.077†	32.1	28.2	-0.0010	mg/L	-0.0010	mg/L	20:50:4
1	Mn 257.610†	994.8	130.0	-0.0025	mg/L	-0.0025	mg/L	20:50:4
1	Mo 202.031†	27.3	18.9	-0.0002	mg/L	-0.0002	mg/L	20:51:1
1	Na 330.237†	1187.1	10.1	0.6772	mg/L	0.6772	mg/L	20:50:4
1	Ni 231.604†	372.0	4.5	-0.0019	mg/L	-0.0019	mg/L	20:51:1
1	Pb 220.353†	-110.3	12.4	-0.0003	mg/L	-0.0003	mg/L	20:51:1
1	Sb 206.836†	79.9	-1.3	-0.0001	mg/L	-0.0001	mg/L	20:51:1
1	Se 196.026†	-0.3	8.2	0.0096	mg/L	0.0096	mg/L	20:51:1
1	Sn 189.927†	45.7	-30.7	-0.0165	mg/L	-0.0165	mg/L	20:51:1
1	Ti 337.279†	1189.8	239.7	-0.0005	mg/L	-0.0005	mg/L	20:50:4
1	Tl 190.801†	7.2	18.8	0.0337	mg/L	0.0337	mg/L	20:51:1
1	V 292.402†	2418.0	-79.5	-0.0007	mg/L	-0.0007	mg/L	20:50:4
1	Zn 213.857†	901.6	-68.2	-0.0014	mg/L	-0.0014	mg/L	20:51:1
2	Y 360.073	2469276.5	2469276.5					20:51:1
2	Ag 328.068†	-561.0	127.7	0.0006	mg/L	0.0006	mg/L	20:51:2
2	Al 237.313†	-274.0	46.5	0.0046	mg/L	0.0046	mg/L	20:51:4
2	As 188.979†	0.5	-0.5	-0.0011	mg/L	-0.0011	mg/L	20:51:4
2	B 182.528†	-23.5	10.4	0.0079	mg/L	0.0079	mg/L	20:51:4
2	Ba 233.527†	-146.6	9.9	-0.0013	mg/L	-0.0013	mg/L	20:51:4
2	Be 313.107†	5231.9	51.2	-0.0001	mg/L	-0.0001	mg/L	20:51:2
2	Ca 315.886†	3675.2	548.2	-0.0118	mg/L	-0.0118	mg/L	20:51:2
2	Cd 228.802†	382.0	-13.4	0.0001	mg/L	0.0001	mg/L	20:51:4
2	Co 228.616†	-390.4	6.9	-0.0019	mg/L	-0.0019	mg/L	20:51:4
2	Cr 267.716†	1773.0	-6.5	-0.0012	mg/L	-0.0012	mg/L	20:51:2
2	Cu 324.752†	1380.5	-89.0	-0.0007	mg/L	-0.0007	mg/L	20:51:2
2	Fe 238.204†	884.5	-106.4	-0.0082	mg/L	-0.0082	mg/L	20:51:4
2	Fe 234.349†	191.3	-34.8	-0.0057	mg/L	-0.0057	mg/L	20:51:4
2	Mg 279.077†	15.2	11.6	-0.0018	mg/L	-0.0018	mg/L	20:51:2
2	Mn 257.610†	1033.8	174.5	-0.0024	mg/L	-0.0024	mg/L	20:51:2
2	Mo 202.031†	21.4	13.2	-0.0007	mg/L	-0.0007	mg/L	20:51:4
2	Na 330.237†	1177.4	7.6	0.6720	mg/L	0.6720	mg/L	20:51:2
2	Ni 231.604†	370.7	5.4	-0.0019	mg/L	-0.0019	mg/L	20:51:4
2	Pb 220.353†	-128.8	-6.6	-0.0024	mg/L	-0.0024	mg/L	20:51:4
2	Sb 206.836†	69.6	-11.0	-0.0027	mg/L	-0.0027	mg/L	20:51:4
2	Se 196.026†	-3.5	4.9	0.0051	mg/L	0.0051	mg/L	20:51:4
2	Sn 189.927†	56.1	-20.1	-0.0132	mg/L	-0.0132	mg/L	20:51:4
2	Ti 337.279†	1086.9	144.9	-0.0006	mg/L	-0.0006	mg/L	20:51:2
2	Tl 190.801†	1.4	13.1	0.0286	mg/L	0.0286	mg/L	20:51:4
2	V 292.402†	2373.5	-109.1	-0.0008	mg/L	-0.0008	mg/L	20:51:2
2	Zn 213.857†	887.7	-76.5	-0.0015	mg/L	-0.0015	mg/L	20:51:4

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2476794.0						10631.26	0.43%
Ag 328.068†	74.2	0.0004	mg/L	0.00022	0.0004	mg/L	0.00022	51.92%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	26.0	0.0023	mg/L	0.00323	0.0023	mg/L	0.00323	140.97%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	-1.0	-0.0016	mg/L	0.00062	-0.0016	mg/L	0.00062	40.31%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	7.2	0.0052	mg/L	0.00369	0.0052	mg/L	0.00369	70.38%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	12.2	-0.0013	mg/L	0.00002	-0.0013	mg/L	0.00002	1.34%

QC value within limits for Ba 233.527	Recovery = Not calculated				
Be 313.107†	69.5	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000 4.01%
QC value within limits for Be 313.107	Recovery = Not calculated				
Ca 315.886†	463.5	-0.0124 mg/L	0.00081	-0.0124 mg/L	0.00081 6.50%
QC value within limits for Ca 315.886	Recovery = Not calculated				
Cd 228.802†	-11.0	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004 38.86%
QC value within limits for Cd 228.802	Recovery = Not calculated				
Co 228.616†	14.1	-0.0018 mg/L	0.00014	-0.0018 mg/L	0.00014 8.01%
QC value within limits for Co 228.616	Recovery = Not calculated				
Cr 267.716†	-22.5	-0.0013 mg/L	0.00015	-0.0013 mg/L	0.00015 11.21%
QC value within limits for Cr 267.716	Recovery = Not calculated				
Cu 324.752†	-92.8	-0.0007 mg/L	0.00003	-0.0007 mg/L	0.00003 4.35%
QC value within limits for Cu 324.752	Recovery = Not calculated				
Fe 238.204†	-113.2	-0.0083 mg/L	0.00008	-0.0083 mg/L	0.00008 0.92%
QC value within limits for Fe 238.204	Recovery = Not calculated				
Fe 234.349†	-41.5	-0.0059 mg/L	0.00023	-0.0059 mg/L	0.00023 3.92%
QC value within limits for Fe 234.349	Recovery = Not calculated				
Mg 279.077†	19.9	-0.0014 mg/L	0.00053	-0.0014 mg/L	0.00053 37.91%
QC value within limits for Mg 279.077	Recovery = Not calculated				
Mn 257.610†	152.3	-0.0024 mg/L	0.00003	-0.0024 mg/L	0.00003 1.29%
QC value within limits for Mn 257.610	Recovery = Not calculated				
Mo 202.031†	16.1	-0.0004 mg/L	0.00031	-0.0004 mg/L	0.00031 68.77%
QC value within limits for Mo 202.031	Recovery = Not calculated				
Na 330.237†	8.9	0.6746 mg/L	0.00374	0.6746 mg/L	0.00374 0.55%
QC value within limits for Na 330.237	Recovery = Not calculated				
Ni 231.604†	4.9	-0.0019 mg/L	0.00001	-0.0019 mg/L	0.00001 0.59%
QC value within limits for Ni 231.604	Recovery = Not calculated				
Pb 220.353†	2.9	-0.0013 mg/L	0.00148	-0.0013 mg/L	0.00148 110.41%
QC value within limits for Pb 220.353	Recovery = Not calculated				
Sb 206.836†	-6.1	-0.0014 mg/L	0.00189	-0.0014 mg/L	0.00189 136.12%
QC value within limits for Sb 206.836	Recovery = Not calculated				
Se 196.026†	6.6	0.0073 mg/L	0.00319	0.0073 mg/L	0.00319 43.46%
QC value within limits for Se 196.026	Recovery = Not calculated				
Sn 189.927†	-25.4	-0.0149 mg/L	0.00236	-0.0149 mg/L	0.00236 15.86%
QC value within limits for Sn 189.927	Recovery = Not calculated				
Ti 337.279†	192.3	-0.0005 mg/L	0.00009	-0.0005 mg/L	0.00009 16.58%
QC value within limits for Ti 337.279	Recovery = Not calculated				
Tl 190.801†	15.9	0.0312 mg/L	0.00366	0.0312 mg/L	0.00366 11.75%
QC value greater than the upper limit for Tl 190.801	Recovery = Not calculated				
V 292.402†	-94.3	-0.0007 mg/L	0.00008	-0.0007 mg/L	0.00008 11.39%
QC value within limits for V 292.402	Recovery = Not calculated				
Zn 213.857†	-72.4	-0.0014 mg/L	0.00006	-0.0014 mg/L	0.00006 4.45%
QC value within limits for Zn 213.857	Recovery = Not calculated				
QC Failed. Continue with analysis.					

Sequence No.: 71  
 Sample ID: 0606346-09DIS  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 59  
 Date Collected: 6/22/2006 8:53:17 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 0606346-09DIS

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2496663.4	2496663.4			20:54:51
1	Ag 328.068†	-552.5	142.1	0.0006 mg/L	0.0006 mg/L	20:54:56
1	Al 237.313†	-269.2	54.2	-0.0017 mg/L	-0.0017 mg/L	20:55:16
1	As 188.979†	2.4	1.4	0.0005 mg/L	0.0005 mg/L	20:55:16
1	B 182.528†	42.7	75.5	0.0604 mg/L	0.0604 mg/L	20:55:16
1	Ba 233.527†	6151.9	6181.2	0.0327 mg/L	0.0327 mg/L	20:55:16
1	Be 313.107†	5136.9	-98.7	-0.0001 mg/L	-0.0001 mg/L	20:54:56
1	Ca 315.886†	4126767.6	4039347.7	27.19 mg/L	27.19 mg/L	20:54:51
1	Cd 228.802†	395.3	-4.5	0.0002 mg/L	0.0002 mg/L	20:55:16
1	Co 228.616†	-334.8	65.6	-0.0011 mg/L	-0.0011 mg/L	20:55:16
1	Cr 267.716†	1759.4	-39.1	-0.0016 mg/L	-0.0016 mg/L	20:55:16
1	Cu 324.752†	1732.8	241.1	0.0012 mg/L	0.0012 mg/L	20:54:56
1	Fe 238.204†	13261.2	12007.8	0.0878 mg/L	0.0878 mg/L	20:54:56
1	Fe 234.349†	4722.5	4401.8	0.1025 mg/L	0.1025 mg/L	20:55:16
1	Mg 279.077†	99622.2	97583.1	4.435 mg/L	4.435 mg/L	20:54:56

1	Mn	257.610†	675526.8	660873.4	0.6610 mg/L	0.6610 mg/L	20:54:51
1	Mo	202.031†	23.6	15.2	-0.0005 mg/L	-0.0005 mg/L	20:55:16
1	Na	330.237†	19946.6	18380.5	39.14 mg/L	39.14 mg/L	20:54:56
1	Ni	231.604†	483.1	111.4	0.0000 mg/L	0.0000 mg/L	20:55:16
1	Pb	220.353†	-74.4	48.0	0.0036 mg/L	0.0036 mg/L	20:55:16
1	Sb	206.836†	79.7	-1.8	-0.0002 mg/L	-0.0002 mg/L	20:55:16
1	Se	196.026†	-1.7	6.7	0.0076 mg/L	0.0076 mg/L	20:55:16
1	Sn	189.927†	133.2	54.8	0.0104 mg/L	0.0104 mg/L	20:55:16
1	Ti	337.279†	1182.9	227.2	-0.0005 mg/L	-0.0005 mg/L	20:54:56
1	Tl	190.801†	-12.4	-0.5	0.0256 mg/L	0.0256 mg/L	20:55:16
1	V	292.402†	2523.2	11.7	-0.0003 mg/L	-0.0003 mg/L	20:54:56
1	Zn	213.857†	2169.7	1169.6	0.0119 mg/L	0.0119 mg/L	20:55:16
2	Y	360.073	2518714.7	2518714.7			20:55:23
2	Ag	328.068†	-588.4	112.0	0.0005 mg/L	0.0005 mg/L	20:55:28
2	Al	237.313†	-308.8	18.1	-0.0057 mg/L	-0.0057 mg/L	20:55:48
2	As	188.979†	5.9	4.8	0.0033 mg/L	0.0033 mg/L	20:55:48
2	B	182.528†	47.2	79.4	0.0636 mg/L	0.0636 mg/L	20:55:48
2	Ba	233.527†	6172.3	6148.3	0.0325 mg/L	0.0325 mg/L	20:55:48
2	Be	313.107†	5140.7	-139.1	-0.0001 mg/L	-0.0001 mg/L	20:55:28
2	Ca	315.886†	4157134.5	4033442.0	27.15 mg/L	27.15 mg/L	20:55:23
2	Cd	228.802†	413.9	10.2	0.0003 mg/L	0.0003 mg/L	20:55:48
2	Co	228.616†	-332.3	70.8	-0.0010 mg/L	-0.0010 mg/L	20:55:48
2	Cr	267.716†	1740.6	-72.5	-0.0019 mg/L	-0.0019 mg/L	20:55:48
2	Cu	324.752†	1767.1	259.5	0.0013 mg/L	0.0013 mg/L	20:55:28
2	Fe	238.204†	13270.6	11903.1	0.0870 mg/L	0.0870 mg/L	20:55:28
2	Fe	234.349†	4710.1	4349.2	0.1013 mg/L	0.1013 mg/L	20:55:48
2	Mg	279.077†	99812.3	96913.3	4.405 mg/L	4.405 mg/L	20:55:28
2	Mn	257.610†	681021.9	660415.8	0.6606 mg/L	0.6606 mg/L	20:55:23
2	Mo	202.031†	24.9	16.2	-0.0004 mg/L	-0.0004 mg/L	20:55:48
2	Na	330.237†	20011.3	18272.2	38.91 mg/L	38.91 mg/L	20:55:28
2	Ni	231.604†	473.3	97.8	-0.0003 mg/L	-0.0003 mg/L	20:55:48
2	Pb	220.353†	-72.7	50.3	0.0039 mg/L	0.0039 mg/L	20:55:48
2	Sb	206.836†	70.8	-11.2	-0.0028 mg/L	-0.0028 mg/L	20:55:48
2	Se	196.026†	8.3	16.5	0.0213 mg/L	0.0213 mg/L	20:55:48
2	Sn	189.927†	142.8	63.0	0.0130 mg/L	0.0130 mg/L	20:55:48
2	Ti	337.279†	1102.7	139.1	-0.0006 mg/L	-0.0006 mg/L	20:55:28
2	Tl	190.801†	-17.8	-5.6	0.0208 mg/L	0.0208 mg/L	20:55:48
2	V	292.402†	2471.7	-59.9	-0.0006 mg/L	-0.0006 mg/L	20:55:28
2	Zn	213.857†	2178.8	1159.8	0.0118 mg/L	0.0118 mg/L	20:55:48

Mean Data: 0606346-09DIS

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 360.073	2507689.1					15592.66	0.62%
Ag 328.068†	127.0	0.0006	mg/L	0.00006	0.0006	0.00006	10.75%
Al 237.313†	36.1	-0.0037	mg/L	0.00282	-0.0037	0.00282	76.20%
As 188.979†	3.1	0.0019	mg/L	0.00199	0.0019	0.00199	104.78%
B 182.528†	77.5	0.0620	mg/L	0.00225	0.0620	0.00225	3.63%
Ba 233.527†	6164.8	0.0326	mg/L	0.00013	0.0326	0.00013	0.39%
Be 313.107†	-118.9	-0.0001	mg/L	0.00000	-0.0001	0.00000	3.46%
Ca 315.886†	4036394.9	27.17	mg/L	0.028	27.17	0.028	0.10%
Cd 228.802†	2.8	0.0003	mg/L	0.00012	0.0003	0.00012	46.06%
Co 228.616†	68.2	-0.0010	mg/L	0.00005	-0.0010	0.00005	5.15%
Cr 267.716†	-55.8	-0.0017	mg/L	0.00016	-0.0017	0.00016	8.94%
Cu 324.752†	250.3	0.0012	mg/L	0.00007	0.0012	0.00007	5.99%
Fe 238.204†	11955.4	0.0874	mg/L	0.00059	0.0874	0.00059	0.67%
Fe 234.349†	4375.5	0.1019	mg/L	0.00091	0.1019	0.00091	0.89%
Mg 279.077†	97248.2	4.420	mg/L	0.0215	4.420	0.0215	0.49%
Mn 257.610†	660644.6	0.6608	mg/L	0.00033	0.6608	0.00033	0.05%
Mo 202.031†	15.7	-0.0005	mg/L	0.00006	-0.0005	0.00006	11.92%
Na 330.237†	18326.4	39.02	mg/L	0.160	39.02	0.160	0.41%
Ni 231.604†	104.6	-0.0001	mg/L	0.00017	-0.0001	0.00017	125.98%
Pb 220.353†	49.2	0.0038	mg/L	0.00018	0.0038	0.00018	4.76%
Sb 206.836†	-6.5	-0.0015	mg/L	0.00181	-0.0015	0.00181	122.34%
Se 196.026†	11.6	0.0144	mg/L	0.00967	0.0144	0.00967	67.04%
Sn 189.927†	58.9	0.0117	mg/L	0.00182	0.0117	0.00182	15.55%
Ti 337.279†	183.2	-0.0005	mg/L	0.00008	-0.0005	0.00008	15.05%
Tl 190.801†	-3.0	0.0232	mg/L	0.00334	0.0232	0.00334	14.39%
V 292.402†	-24.1	-0.0005	mg/L	0.00021	-0.0005	0.00021	45.84%
Zn 213.857†	1164.7	0.0118	mg/L	0.00007	0.0118	0.00007	0.62%

Sequence No.: 72  
 Sample ID: 0606346-10DIS  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 60  
 Date Collected: 6/22/2006 8:57:26 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 0606346-10DIS

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2488350.3	2488350.3			20:59:00
1	Ag 328.068†	-578.0	115.2	0.0006 mg/L	0.0006 mg/L	20:59:05
1	Al 237.313†	-288.2	34.7	-0.0033 mg/L	-0.0033 mg/L	20:59:25
1	As 188.979†	1.9	0.9	0.0001 mg/L	0.0001 mg/L	20:59:25
1	B 182.528†	51.6	84.3	0.0676 mg/L	0.0676 mg/L	20:59:25
1	Ba 233.527†	5742.1	5798.6	0.0305 mg/L	0.0305 mg/L	20:59:25
1	Be 313.107†	5085.6	-132.3	-0.0001 mg/L	-0.0001 mg/L	20:59:05
1	Ca 315.886†	4109977.2	4036350.5	27.17 mg/L	27.17 mg/L	20:59:00
1	Cd 228.802†	390.8	-7.6	0.0001 mg/L	0.0001 mg/L	20:59:25
1	Co 228.616†	-365.6	34.2	-0.0015 mg/L	-0.0015 mg/L	20:59:25
1	Cr 267.716†	1781.5	-11.6	-0.0014 mg/L	-0.0014 mg/L	20:59:25
1	Cu 324.752†	1683.7	198.6	0.0009 mg/L	0.0009 mg/L	20:59:05
1	Fe 238.204†	11243.8	10068.4	0.0724 mg/L	0.0724 mg/L	20:59:05
1	Fe 234.349†	4120.9	3825.9	0.0885 mg/L	0.0885 mg/L	20:59:25
1	Mg 279.077†	96865.8	95200.0	4.326 mg/L	4.326 mg/L	20:59:05
1	Mn 257.610†	583716.1	572849.1	0.5727 mg/L	0.5727 mg/L	20:59:00
1	Mo 202.031†	16.8	8.5	-0.0010 mg/L	-0.0010 mg/L	20:59:25
1	Na 330.237†	19204.5	17716.3	37.75 mg/L	37.75 mg/L	20:59:05
1	Ni 231.604†	471.5	101.6	-0.0002 mg/L	-0.0002 mg/L	20:59:25
1	Pb 220.353†	-94.0	28.5	0.0015 mg/L	0.0015 mg/L	20:59:25
1	Sb 206.836†	74.8	-6.4	-0.0015 mg/L	-0.0015 mg/L	20:59:25
1	Se 196.026†	-4.3	4.2	0.0041 mg/L	0.0041 mg/L	20:59:25
1	Sn 189.927†	142.1	64.0	0.0133 mg/L	0.0133 mg/L	20:59:25
1	Ti 337.279†	1006.7	57.9	-0.0007 mg/L	-0.0007 mg/L	20:59:05
1	Tl 190.801†	-14.6	-2.6	0.0223 mg/L	0.0223 mg/L	20:59:25
1	V 292.402†	2490.7	-11.9	-0.0004 mg/L	-0.0004 mg/L	20:59:05
1	Zn 213.857†	1908.5	920.1	0.0092 mg/L	0.0092 mg/L	20:59:25
2	Y 360.073	2484316.7	2484316.7			20:59:32
2	Ag 328.068†	-595.2	97.3	0.0005 mg/L	0.0005 mg/L	20:59:37
2	Al 237.313†	-270.1	52.0	-0.0015 mg/L	-0.0015 mg/L	20:59:57
2	As 188.979†	4.3	3.3	0.0020 mg/L	0.0020 mg/L	20:59:57
2	B 182.528†	45.8	78.8	0.0631 mg/L	0.0631 mg/L	20:59:57
2	Ba 233.527†	5733.0	5798.8	0.0305 mg/L	0.0305 mg/L	20:59:57
2	Be 313.107†	5105.7	-104.4	-0.0001 mg/L	-0.0001 mg/L	20:59:37
2	Ca 315.886†	4112576.6	4045467.9	27.23 mg/L	27.23 mg/L	20:59:32
2	Cd 228.802†	381.1	-16.5	0.0000 mg/L	0.0000 mg/L	20:59:57
2	Co 228.616†	-358.9	40.2	-0.0014 mg/L	-0.0014 mg/L	20:59:57
2	Cr 267.716†	1785.3	-5.1	-0.0014 mg/L	-0.0014 mg/L	20:59:57
2	Cu 324.752†	1695.4	212.7	0.0010 mg/L	0.0010 mg/L	20:59:37
2	Fe 238.204†	11619.3	10455.9	0.0755 mg/L	0.0755 mg/L	20:59:37
2	Fe 234.349†	4164.5	3875.4	0.0897 mg/L	0.0897 mg/L	20:59:57
2	Mg 279.077†	97668.0	96144.2	4.369 mg/L	4.369 mg/L	20:59:37
2	Mn 257.610†	583478.7	573546.9	0.5734 mg/L	0.5734 mg/L	20:59:32
2	Mo 202.031†	21.3	13.0	-0.0007 mg/L	-0.0007 mg/L	20:59:57
2	Na 330.237†	19408.4	17947.7	38.23 mg/L	38.23 mg/L	20:59:37
2	Ni 231.604†	479.3	110.1	0.0000 mg/L	0.0000 mg/L	20:59:57
2	Pb 220.353†	-87.7	34.6	0.0021 mg/L	0.0021 mg/L	20:59:57
2	Sb 206.836†	74.8	-6.3	-0.0014 mg/L	-0.0014 mg/L	20:59:57
2	Se 196.026†	-5.6	3.0	0.0023 mg/L	0.0023 mg/L	20:59:57
2	Sn 189.927†	140.8	63.0	0.0130 mg/L	0.0130 mg/L	20:59:57
2	Ti 337.279†	1019.5	72.1	-0.0007 mg/L	-0.0007 mg/L	20:59:37
2	Tl 190.801†	-11.6	0.3	0.0250 mg/L	0.0250 mg/L	20:59:57
2	V 292.402†	2557.3	57.6	-0.0001 mg/L	-0.0001 mg/L	20:59:37
2	Zn 213.857†	1911.1	925.7	0.0093 mg/L	0.0093 mg/L	20:59:57

Mean Data: 0606346-10DIS

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
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Y 360.073	2486333.5					2852.17	0.11%
Ag 328.068†	106.3	0.0005 mg/L	0.00004	0.0005 mg/L	0.00004	7.11%	
Al 237.313†	43.4	-0.0024 mg/L	0.00134	-0.0024 mg/L	0.00134	55.53%	
As 188.979†	2.1	0.0011 mg/L	0.00141	0.0011 mg/L	0.00141	134.63%	
B 182.528†	81.6	0.0653 mg/L	0.00318	0.0653 mg/L	0.00318	4.87%	
Ba 233.527†	5798.7	0.0305 mg/L	0.00000	0.0305 mg/L	0.00000	0.00%	
Be 313.107†	-118.4	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	2.38%	
Ca 315.886†	4040909.2	27.20 mg/L	0.043	27.20 mg/L	0.043	0.16%	
Cd 228.802†	-12.1	0.0001 mg/L	0.00008	0.0001 mg/L	0.00008	95.99%	
Co 228.616†	37.2	-0.0015 mg/L	0.00006	-0.0015 mg/L	0.00006	4.10%	
Cr 267.716†	-8.3	-0.0014 mg/L	0.00003	-0.0014 mg/L	0.00003	2.16%	
Cu 324.752†	205.6	0.0010 mg/L	0.00006	0.0010 mg/L	0.00006	5.78%	
Fe 238.204†	10262.2	0.0740 mg/L	0.00217	0.0740 mg/L	0.00217	2.94%	
Fe 234.349†	3850.6	0.0891 mg/L	0.00085	0.0891 mg/L	0.00085	0.96%	
Mg 279.077†	95672.1	4.348 mg/L	0.0303	4.348 mg/L	0.0303	0.70%	
Mn 257.610†	573198.0	0.5730 mg/L	0.00050	0.5730 mg/L	0.00050	0.09%	
Mo 202.031†	10.8	-0.0008 mg/L	0.00024	-0.0008 mg/L	0.00024	28.87%	
Na 330.237†	17832.0	37.99 mg/L	0.343	37.99 mg/L	0.343	0.90%	
Ni 231.604†	105.8	-0.0001 mg/L	0.00011	-0.0001 mg/L	0.00011	94.03%	
Pb 220.353†	31.6	0.0018 mg/L	0.00047	0.0018 mg/L	0.00047	26.03%	
Sb 206.836†	-6.3	-0.0014 mg/L	0.00002	-0.0014 mg/L	0.00002	1.59%	
Se 196.026†	3.6	0.0032 mg/L	0.00124	0.0032 mg/L	0.00124	38.90%	
Sn 189.927†	63.5	0.0132 mg/L	0.00023	0.0132 mg/L	0.00023	1.78%	
Ti 337.279†	65.0	-0.0007 mg/L	0.00001	-0.0007 mg/L	0.00001	1.89%	
Tl 190.801†	-1.2	0.0237 mg/L	0.00190	0.0237 mg/L	0.00190	8.03%	
V 292.402†	22.9	-0.0003 mg/L	0.00020	-0.0003 mg/L	0.00020	77.46%	
Zn 213.857†	922.9	0.0092 mg/L	0.00004	0.0092 mg/L	0.00004	0.45%	

Sequence No.: 73  
 Sample ID: 0606346-11DIS  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 61  
 Date Collected: 6/22/2006 9:01:36 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 0606346-11DIS

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2510405.0	2510405.0			21:03:10
1	Ag 328.068†	-528.3	168.6	0.0007 mg/L	0.0007 mg/L	21:03:16
1	Al 237.313†	-283.0	42.1	-0.0028 mg/L	-0.0028 mg/L	21:03:36
1	As 188.979†	6.7	5.6	0.0040 mg/L	0.0040 mg/L	21:03:36
1	B 182.528†	41.8	74.4	0.0595 mg/L	0.0595 mg/L	21:03:36
1	Ba 233.527†	5971.2	5972.2	0.0315 mg/L	0.0315 mg/L	21:03:36
1	Be 313.107†	4936.4	-321.6	-0.0002 mg/L	-0.0002 mg/L	21:03:16
1	Ca 315.886†	4027001.9	3920027.8	26.39 mg/L	26.39 mg/L	21:03:10
1	Cd 228.802†	407.4	5.2	0.0003 mg/L	0.0003 mg/L	21:03:36
1	Co 228.616†	-360.1	42.7	-0.0014 mg/L	-0.0014 mg/L	21:03:36
1	Cr 267.716†	1766.1	-42.1	-0.0016 mg/L	-0.0016 mg/L	21:03:36
1	Cu 324.752†	1649.7	150.8	0.0007 mg/L	0.0007 mg/L	21:03:16
1	Fe 238.204†	13764.9	12427.3	0.0911 mg/L	0.0911 mg/L	21:03:16
1	Fe 234.349†	4820.4	4471.7	0.1043 mg/L	0.1043 mg/L	21:03:36
1	Mg 279.077†	97673.0	95150.0	4.324 mg/L	4.324 mg/L	21:03:16
1	Mn 257.610†	632642.7	615473.4	0.6155 mg/L	0.6155 mg/L	21:03:10
1	Mo 202.031†	15.8	7.4	-0.0011 mg/L	-0.0011 mg/L	21:03:36
1	Na 330.237†	19441.5	17781.4	37.88 mg/L	37.88 mg/L	21:03:16
1	Ni 231.604†	469.3	95.4	-0.0003 mg/L	-0.0003 mg/L	21:03:36
1	Pb 220.353†	-88.4	34.7	0.0022 mg/L	0.0022 mg/L	21:03:36
1	Sb 206.836†	80.9	-1.1	0.0000 mg/L	0.0000 mg/L	21:03:36
1	Se 196.026†	-7.1	1.5	0.0003 mg/L	0.0003 mg/L	21:03:36
1	Sn 189.927†	133.1	54.0	0.0102 mg/L	0.0102 mg/L	21:03:36
1	Ti 337.279†	1114.0	153.7	-0.0006 mg/L	-0.0006 mg/L	21:03:16
1	Tl 190.801†	-10.7	1.2	0.0264 mg/L	0.0264 mg/L	21:03:36
1	V 292.402†	2493.3	-30.9	-0.0005 mg/L	-0.0005 mg/L	21:03:16
1	Zn 213.857†	1899.1	894.4	0.0089 mg/L	0.0089 mg/L	21:03:36
2	Y 360.073	2504984.4	2504984.4			21:03:42
2	Ag 328.068†	-549.7	146.6	0.0006 mg/L	0.0006 mg/L	21:03:47
2	Al 237.313†	-263.5	60.6	-0.0007 mg/L	-0.0007 mg/L	21:04:08
2	As 188.979†	2.0	1.1	0.0002 mg/L	0.0002 mg/L	21:04:08
2	B 182.528†	41.8	74.5	0.0596 mg/L	0.0596 mg/L	21:04:08



2	Ba 233.527†	6007.3	6020.1	0.0318 mg/L	0.0318 mg/L	21:04:08
2	Be 313.107†	5044.0	-206.1	-0.0001 mg/L	-0.0001 mg/L	21:03:47
2	Ca 315.886†	4026838.5	3928357.7	26.44 mg/L	26.44 mg/L	21:03:42
2	Cd 228.802†	389.4	-11.6	0.0001 mg/L	0.0001 mg/L	21:04:08
2	Co 228.616†	-362.4	39.7	-0.0014 mg/L	-0.0014 mg/L	21:04:08
2	Cr 267.716†	1793.2	-11.8	-0.0014 mg/L	-0.0014 mg/L	21:04:08
2	Cu 324.752†	1659.3	163.7	0.0007 mg/L	0.0007 mg/L	21:03:47
2	Fe 238.204†	13815.4	12505.7	0.0918 mg/L	0.0918 mg/L	21:03:47
2	Fe 234.349†	4827.7	4489.0	0.1047 mg/L	0.1047 mg/L	21:04:08
2	Mg 279.077†	97752.1	95433.1	4.337 mg/L	4.337 mg/L	21:03:47
2	Mn 257.610†	632579.1	616745.0	0.6167 mg/L	0.6167 mg/L	21:03:42
2	Mo 202.031†	15.2	6.9	-0.0011 mg/L	-0.0011 mg/L	21:04:08
2	Na 330.237†	19375.1	17757.6	37.83 mg/L	37.83 mg/L	21:03:47
2	Ni 231.604†	470.9	97.9	-0.0003 mg/L	-0.0003 mg/L	21:04:08
2	Pb 220.353†	-82.2	40.6	0.0028 mg/L	0.0028 mg/L	21:04:08
2	Sb 206.836†	80.8	-1.1	0.0000 mg/L	0.0000 mg/L	21:04:08
2	Se 196.026†	-8.7	-0.1	-0.0020 mg/L	-0.0020 mg/L	21:04:08
2	Sn 189.927†	117.1	38.7	0.0053 mg/L	0.0053 mg/L	21:04:08
2	Ti 337.279†	1031.9	75.9	-0.0007 mg/L	-0.0007 mg/L	21:03:47
2	Tl 190.801†	-17.9	-5.8	0.0200 mg/L	0.0200 mg/L	21:04:08
2	V 292.402†	2543.1	22.9	-0.0003 mg/L	-0.0003 mg/L	21:03:47
2	Zn 213.857†	1919.8	918.7	0.0092 mg/L	0.0092 mg/L	21:04:08

Mean Data: 0606346-11DIS

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2507694.7				3832.97	0.15%
Ag 328.068†	157.6	0.0007 mg/L	0.00005	0.0007 mg/L	0.00005	6.79%
Al 237.313†	51.4	-0.0018 mg/L	0.00144	-0.0018 mg/L	0.00144	81.62%
As 188.979†	3.3	0.0021 mg/L	0.00270	0.0021 mg/L	0.00270	129.45%
B 182.528†	74.4	0.0596 mg/L	0.00008	0.0596 mg/L	0.00008	0.13%
Ba 233.527†	5996.2	0.0316 mg/L	0.00019	0.0316 mg/L	0.00019	0.59%
Be 313.107†	-263.9	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	8.39%
Ca 315.886†	3924192.7	26.42 mg/L	0.040	26.42 mg/L	0.040	0.15%
Cd 228.802†	-3.2	0.0002 mg/L	0.00013	0.0002 mg/L	0.00013	72.02%
Co 228.616†	41.2	-0.0014 mg/L	0.00003	-0.0014 mg/L	0.00003	2.17%
Cr 267.716†	-26.9	-0.0015 mg/L	0.00014	-0.0015 mg/L	0.00014	9.16%
Cu 324.752†	157.3	0.0007 mg/L	0.00005	0.0007 mg/L	0.00005	7.31%
Fe 238.204†	12466.5	0.0914 mg/L	0.00044	0.0914 mg/L	0.00044	0.48%
Fe 234.349†	4480.4	0.1045 mg/L	0.00030	0.1045 mg/L	0.00030	0.29%
Mg 279.077†	95291.5	4.331 mg/L	0.0091	4.331 mg/L	0.0091	0.21%
Mn 257.610†	616109.2	0.6161 mg/L	0.00090	0.6161 mg/L	0.00090	0.15%
Mo 202.031†	7.1	-0.0011 mg/L	0.00003	-0.0011 mg/L	0.00003	2.27%
Na 330.237†	17769.5	37.86 mg/L	0.035	37.86 mg/L	0.035	0.09%
Ni 231.604†	96.7	-0.0003 mg/L	0.00003	-0.0003 mg/L	0.00003	11.52%
Pb 220.353†	37.7	0.0025 mg/L	0.00046	0.0025 mg/L	0.00046	18.39%
Sb 206.836†	-1.1	0.0000 mg/L	0.00000	0.0000 mg/L	0.00000	15.55%
Se 196.026†	0.7	-0.0008 mg/L	0.00160	-0.0008 mg/L	0.00160	193.12%
Sn 189.927†	46.3	0.0078 mg/L	0.00341	0.0078 mg/L	0.00341	44.03%
Ti 337.279†	114.8	-0.0006 mg/L	0.00007	-0.0006 mg/L	0.00007	11.42%
Tl 190.801†	-2.3	0.0232 mg/L	0.00453	0.0232 mg/L	0.00453	19.50%
V 292.402†	-4.0	-0.0004 mg/L	0.00016	-0.0004 mg/L	0.00016	42.28%
Zn 213.857†	906.5	0.0091 mg/L	0.00018	0.0091 mg/L	0.00018	2.03%

Sequence No.: 74  
 Sample ID: 0606346-12DIS  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 62  
 Date Collected: 6/22/2006 9:05:46 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 0606346-12DIS

Rep#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2493413.6	2493413.6			21:07:21
1	Ag 328.068†	-624.2	71.1	0.0004 mg/L	0.0004 mg/L	21:07:26
1	Al 237.313†	-254.2	68.5	0.0023 mg/L	0.0023 mg/L	21:07:46
1	As 188.979†	5.1	4.1	0.0027 mg/L	0.0027 mg/L	21:07:46
1	B 182.528†	22.4	55.6	0.0444 mg/L	0.0444 mg/L	21:07:46

1	Ba	233.527†	4355.4	4427.0	0.0230	mg/L	0.0230	mg/L	21:07:26
1	Be	313.107†	5033.6	-193.5	-0.0001	mg/L	-0.0001	mg/L	21:07:26
1	Ca	315.886†	3471716.5	3402114.6	22.90	mg/L	22.90	mg/L	21:07:21
1	Cd	228.802†	374.5	-24.5	-0.0001	mg/L	-0.0001	mg/L	21:07:46
1	Co	228.616†	-340.4	59.7	-0.0011	mg/L	-0.0011	mg/L	21:07:46
1	Cr	267.716†	1711.4	-84.0	-0.0018	mg/L	-0.0018	mg/L	21:07:26
1	Cu	324.752†	1586.8	100.1	0.0004	mg/L	0.0004	mg/L	21:07:26
1	Fe	238.204†	8974.0	7819.6	0.0546	mg/L	0.0546	mg/L	21:07:26
1	Fe	234.349†	3377.8	3088.8	0.0705	mg/L	0.0705	mg/L	21:07:26
1	Mg	279.077†	86020.8	84369.4	3.833	mg/L	3.833	mg/L	21:07:26
1	Mn	257.610†	233750.4	228422.9	0.2268	mg/L	0.2268	mg/L	21:07:21
1	Mo	202.031†	12.9	4.7	-0.0013	mg/L	-0.0013	mg/L	21:07:46
1	Na	330.237†	19251.3	17723.9	37.76	mg/L	37.76	mg/L	21:07:26
1	Ni	231.604†	461.2	90.5	-0.0004	mg/L	-0.0004	mg/L	21:07:46
1	Pb	220.353†	-92.1	30.5	0.0017	mg/L	0.0017	mg/L	21:07:46
1	Sb	206.836†	87.0	5.4	0.0018	mg/L	0.0018	mg/L	21:07:46
1	Se	196.026†	0.1	8.5	0.0101	mg/L	0.0101	mg/L	21:07:46
1	Sn	189.927†	119.0	41.1	0.0061	mg/L	0.0061	mg/L	21:07:46
1	Ti	337.279†	911.3	-37.7	-0.0008	mg/L	-0.0008	mg/L	21:07:26
1	Tl	190.801†	-12.2	-0.3	0.0196	mg/L	0.0196	mg/L	21:07:46
1	V	292.402†	2501.1	-6.7	-0.0004	mg/L	-0.0004	mg/L	21:07:26
1	Zn	213.857†	2472.0	1468.9	0.0151	mg/L	0.0151	mg/L	21:07:46
2	Y	360.073	2493307.7	2493307.7					21:07:52
2	Ag	328.068†	-584.3	110.2	0.0005	mg/L	0.0005	mg/L	21:07:58
2	Al	237.313†	-256.7	66.0	0.0020	mg/L	0.0020	mg/L	21:08:18
2	As	188.979†	4.6	3.6	0.0023	mg/L	0.0023	mg/L	21:08:18
2	B	182.528†	18.6	51.9	0.0414	mg/L	0.0414	mg/L	21:08:18
2	Ba	233.527†	4398.0	4469.0	0.0232	mg/L	0.0232	mg/L	21:07:58
2	Be	313.107†	4992.2	-233.8	-0.0002	mg/L	-0.0002	mg/L	21:07:58
2	Ca	315.886†	3480941.9	3411308.3	22.96	mg/L	22.96	mg/L	21:07:52
2	Cd	228.802†	399.4	0.0	0.0002	mg/L	0.0002	mg/L	21:08:18
2	Co	228.616†	-340.7	59.3	-0.0011	mg/L	-0.0011	mg/L	21:08:18
2	Cr	267.716†	1692.2	-102.7	-0.0019	mg/L	-0.0019	mg/L	21:07:58
2	Cu	324.752†	1609.4	122.3	0.0005	mg/L	0.0005	mg/L	21:07:58
2	Fe	238.204†	9080.8	7924.7	0.0554	mg/L	0.0554	mg/L	21:07:58
2	Fe	234.349†	3444.6	3154.4	0.0721	mg/L	0.0721	mg/L	21:07:58
2	Mg	279.077†	86373.2	84718.7	3.849	mg/L	3.849	mg/L	21:07:58
2	Mn	257.610†	234049.5	228726.0	0.2271	mg/L	0.2271	mg/L	21:07:52
2	Mo	202.031†	15.2	7.0	-0.0011	mg/L	-0.0011	mg/L	21:08:18
2	Na	330.237†	19333.5	17805.3	37.93	mg/L	37.93	mg/L	21:07:58
2	Ni	231.604†	462.1	91.5	-0.0004	mg/L	-0.0004	mg/L	21:08:18
2	Pb	220.353†	-85.3	37.2	0.0024	mg/L	0.0024	mg/L	21:08:18
2	Sb	206.836†	70.7	-10.5	-0.0026	mg/L	-0.0026	mg/L	21:08:18
2	Se	196.026†	-4.1	4.5	0.0044	mg/L	0.0044	mg/L	21:08:18
2	Sn	189.927†	120.9	42.9	0.0067	mg/L	0.0067	mg/L	21:08:18
2	Ti	337.279†	1082.4	130.2	-0.0006	mg/L	-0.0006	mg/L	21:07:58
2	Tl	190.801†	-16.7	-4.7	0.0155	mg/L	0.0155	mg/L	21:08:18
2	V	292.402†	2540.3	31.8	-0.0002	mg/L	-0.0002	mg/L	21:07:58
2	Zn	213.857†	2478.6	1475.5	0.0152	mg/L	0.0152	mg/L	21:08:18

Mean Data: 0606346-12DIS

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 360.073	2493360.7						74.87	0.00%
Ag 328.068†	90.6	0.0005	mg/L	0.00008	0.0005	mg/L	0.00008	17.07%
Al 237.313†	67.3	0.0022	mg/L	0.00021	0.0022	mg/L	0.00021	9.82%
As 188.979†	3.8	0.0025	mg/L	0.00029	0.0025	mg/L	0.00029	11.65%
B 182.528†	53.7	0.0429	mg/L	0.00212	0.0429	mg/L	0.00212	4.95%
Ba 233.527†	4448.0	0.0231	mg/L	0.00016	0.0231	mg/L	0.00016	0.71%
Be 313.107†	-213.6	-0.0001	mg/L	0.00000	-0.0001	mg/L	0.00000	3.09%
Ca 315.886†	3406711.4	22.93	mg/L	0.044	22.93	mg/L	0.044	0.19%
Cd 228.802†	-12.2	0.0001	mg/L	0.00021	0.0001	mg/L	0.00021	269.15%
Co 228.616†	59.5	-0.0011	mg/L	0.00000	-0.0011	mg/L	0.00000	0.30%
Cr 267.716†	-93.3	-0.0019	mg/L	0.00009	-0.0019	mg/L	0.00009	4.69%
Cu 324.752†	111.2	0.0004	mg/L	0.00009	0.0004	mg/L	0.00009	20.07%
Fe 238.204†	7872.2	0.0550	mg/L	0.00059	0.0550	mg/L	0.00059	1.07%
Fe 234.349†	3121.6	0.0713	mg/L	0.00113	0.0713	mg/L	0.00113	1.59%
Mg 279.077†	84544.0	3.841	mg/L	0.0112	3.841	mg/L	0.0112	0.29%
Mn 257.610†	228574.4	0.2269	mg/L	0.00022	0.2269	mg/L	0.00022	0.09%
Mo 202.031†	5.8	-0.0012	mg/L	0.00012	-0.0012	mg/L	0.00012	10.18%

Na 330.237†	17764.6	37.85 mg/L	0.121	37.85 mg/L	0.121	0.32%
Ni 231.604†	91.0	-0.0004 mg/L	0.00001	-0.0004 mg/L	0.00001	3.08%
Pb 220.353†	33.9	0.0021 mg/L	0.00052	0.0021 mg/L	0.00052	25.23%
Sb 206.836†	-2.6	-0.0004 mg/L	0.00310	-0.0004 mg/L	0.00310	781.93%
Se 196.026†	6.5	0.0073 mg/L	0.00403	0.0073 mg/L	0.00403	55.47%
Sn 189.927†	42.0	0.0064 mg/L	0.00041	0.0064 mg/L	0.00041	6.37%
Ti 337.279†	46.3	-0.0007 mg/L	0.00016	-0.0007 mg/L	0.00016	21.57%
Tl 190.801†	-2.5	0.0176 mg/L	0.00285	0.0176 mg/L	0.00285	16.24%
V 292.402†	12.5	-0.0003 mg/L	0.00011	-0.0003 mg/L	0.00011	36.14%
Zn 213.857†	1472.2	0.0151 mg/L	0.00005	0.0151 mg/L	0.00005	0.33%

Sequence No.: 75  
 Sample ID: 0606346-13DIS  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 63  
 Date Collected: 6/22/2006 9:09:57 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 0606346-13DIS

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2485388.6	2485388.6			21:11:27
1	Ag 328.068†	-621.0	72.3	0.0004 mg/L	0.0004 mg/L	21:11:33
1	Al 237.313†	-244.9	76.9	0.0028 mg/L	0.0028 mg/L	21:11:53
1	As 188.979†	6.6	5.6	0.0039 mg/L	0.0039 mg/L	21:11:53
1	B 182.528†	29.9	63.1	0.0504 mg/L	0.0504 mg/L	21:11:53
1	Ba 233.527†	5265.5	5336.4	0.0280 mg/L	0.0280 mg/L	21:11:33
1	Be 313.107†	5090.8	-121.2	-0.0001 mg/L	-0.0001 mg/L	21:11:33
1	Ca 315.886†	3641989.0	3580659.3	24.10 mg/L	24.10 mg/L	21:11:27
1	Cd 228.802†	401.5	3.3	0.0003 mg/L	0.0003 mg/L	21:11:53
1	Co 228.616†	-342.3	56.7	-0.0012 mg/L	-0.0012 mg/L	21:11:53
1	Cr 267.716†	1709.2	-80.7	-0.0018 mg/L	-0.0018 mg/L	21:11:33
1	Cu 324.752†	1702.2	218.7	0.0010 mg/L	0.0010 mg/L	21:11:33
1	Fe 238.204†	9863.1	8722.9	0.0618 mg/L	0.0618 mg/L	21:11:33
1	Fe 234.349†	3680.1	3396.9	0.0780 mg/L	0.0780 mg/L	21:11:33
1	Mg 279.077†	92051.9	90576.5	4.115 mg/L	4.115 mg/L	21:11:33
1	Mn 257.610†	262844.5	257792.1	0.2563 mg/L	0.2563 mg/L	21:11:27
1	Mo 202.031†	25.8	17.4	-0.0003 mg/L	-0.0003 mg/L	21:11:53
1	Na 330.237†	19602.3	18130.3	38.61 mg/L	38.61 mg/L	21:11:33
1	Ni 231.604†	481.4	111.9	0.0000 mg/L	0.0000 mg/L	21:11:53
1	Pb 220.353†	-102.2	20.3	0.0006 mg/L	0.0006 mg/L	21:11:53
1	Sb 206.836†	79.9	-1.2	0.0000 mg/L	0.0000 mg/L	21:11:53
1	Se 196.026†	-6.3	2.2	0.0013 mg/L	0.0013 mg/L	21:11:53
1	Sn 189.927†	114.7	37.2	0.0049 mg/L	0.0049 mg/L	21:11:53
1	Ti 337.279†	936.4	-10.1	-0.0008 mg/L	-0.0008 mg/L	21:11:33
1	Tl 190.801†	-17.6	-5.6	0.0150 mg/L	0.0150 mg/L	21:11:53
1	V 292.402†	6019.1	3463.0	0.0138 mg/L	0.0138 mg/L	21:11:33
1	Zn 213.857†	2671.9	1673.4	0.0173 mg/L	0.0173 mg/L	21:11:53
2	Y 360.073	2497082.4	2497082.4			21:11:59
2	Ag 328.068†	-558.8	136.0	0.0006 mg/L	0.0006 mg/L	21:12:04
2	Al 237.313†	-276.3	47.3	-0.0004 mg/L	-0.0004 mg/L	21:12:25
2	As 188.979†	5.2	4.2	0.0028 mg/L	0.0028 mg/L	21:12:25
2	B 182.528†	30.1	63.1	0.0504 mg/L	0.0504 mg/L	21:12:25
2	Ba 233.527†	5298.3	5344.2	0.0280 mg/L	0.0280 mg/L	21:12:04
2	Be 313.107†	5115.7	-120.3	-0.0001 mg/L	-0.0001 mg/L	21:12:04
2	Ca 315.886†	3654416.4	3576048.0	24.07 mg/L	24.07 mg/L	21:11:59
2	Cd 228.802†	380.1	-19.5	0.0000 mg/L	0.0000 mg/L	21:12:25
2	Co 228.616†	-337.0	63.5	-0.0011 mg/L	-0.0011 mg/L	21:12:25
2	Cr 267.716†	1693.5	-104.0	-0.0019 mg/L	-0.0019 mg/L	21:12:04
2	Cu 324.752†	1656.0	165.6	0.0007 mg/L	0.0007 mg/L	21:12:04
2	Fe 238.204†	9902.8	8716.3	0.0617 mg/L	0.0617 mg/L	21:12:04
2	Fe 234.349†	3668.5	3368.6	0.0773 mg/L	0.0773 mg/L	21:12:04
2	Mg 279.077†	92129.4	90228.2	4.099 mg/L	4.099 mg/L	21:12:04
2	Mn 257.610†	263834.5	257550.5	0.2560 mg/L	0.2560 mg/L	21:11:59
2	Mo 202.031†	17.6	9.3	-0.0009 mg/L	-0.0009 mg/L	21:12:25
2	Na 330.237†	19582.4	18020.5	38.38 mg/L	38.38 mg/L	21:12:04
2	Ni 231.604†	474.7	103.1	-0.0002 mg/L	-0.0002 mg/L	21:12:25
2	Pb 220.353†	-99.2	23.8	0.0010 mg/L	0.0010 mg/L	21:12:25
2	Sb 206.836†	80.6	-1.0	0.0000 mg/L	0.0000 mg/L	21:12:25
2	Se 196.026†	-4.4	4.1	0.0039 mg/L	0.0039 mg/L	21:12:25

2	Sn 189.927†	117.3	39.2	0.0055 mg/L	0.0055 mg/L	21:12:25
2	Ti 337.279†	958.5	7.2	-0.0008 mg/L	-0.0008 mg/L	21:12:04
2	Tl 190.801†	-11.4	0.5	0.0206 mg/L	0.0206 mg/L	21:12:25
2	V 292.402†	6043.3	3458.9	0.0138 mg/L	0.0138 mg/L	21:12:04
2	Zn 213.857†	2668.9	1658.2	0.0171 mg/L	0.0171 mg/L	21:12:25

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 Mean Data: 0606346-13DIS

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2491235.5				8268.77	0.33%
Ag 328.068†	104.2	0.0005 mg/L	0.00013	0.0005 mg/L	0.00013	25.49%
Al 237.313†	62.1	0.0012 mg/L	0.00232	0.0012 mg/L	0.00232	194.53%
As 188.979†	4.9	0.0034 mg/L	0.00083	0.0034 mg/L	0.00083	24.64%
B 182.528†	63.1	0.0504 mg/L	0.00003	0.0504 mg/L	0.00003	0.06%
Ba 233.527†	5340.3	0.0280 mg/L	0.00003	0.0280 mg/L	0.00003	0.11%
Be 313.107†	-120.8	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	0.07%
Ca 315.886†	3578353.7	24.09 mg/L	0.022	24.09 mg/L	0.022	0.09%
Cd 228.802†	-8.1	0.0001 mg/L	0.00019	0.0001 mg/L	0.00019	156.47%
Co 228.616†	60.1	-0.0011 mg/L	0.00007	-0.0011 mg/L	0.00007	5.93%
Cr 267.716†	-92.3	-0.0019 mg/L	0.00011	-0.0019 mg/L	0.00011	5.83%
Cu 324.752†	192.2	0.0009 mg/L	0.00021	0.0009 mg/L	0.00021	23.56%
Fe 238.204†	8719.6	0.0618 mg/L	0.00004	0.0618 mg/L	0.00004	0.06%
Fe 234.349†	3382.8	0.0777 mg/L	0.00049	0.0777 mg/L	0.00049	0.63%
Mg 279.077†	90402.4	4.107 mg/L	0.0112	4.107 mg/L	0.0112	0.27%
Mn 257.610†	257671.3	0.2562 mg/L	0.00017	0.2562 mg/L	0.00017	0.07%
Mo 202.031†	13.4	-0.0006 mg/L	0.00044	-0.0006 mg/L	0.00044	68.38%
Na 330.237†	18075.4	38.50 mg/L	0.163	38.50 mg/L	0.163	0.42%
Ni 231.604†	107.5	-0.0001 mg/L	0.00011	-0.0001 mg/L	0.00011	131.34%
Pb 220.353†	22.0	0.0008 mg/L	0.00027	0.0008 mg/L	0.00027	35.07%
Sb 206.836†	-1.1	0.0000 mg/L	0.00005	0.0000 mg/L	0.00005	>999.9%
Se 196.026†	3.2	0.0026 mg/L	0.00185	0.0026 mg/L	0.00185	70.57%
Sn 189.927†	38.2	0.0052 mg/L	0.00046	0.0052 mg/L	0.00046	8.81%
Ti 337.279†	-1.4	-0.0008 mg/L	0.00002	-0.0008 mg/L	0.00002	2.05%
Tl 190.801†	-2.6	0.0178 mg/L	0.00398	0.0178 mg/L	0.00398	22.35%
V 292.402†	3461.0	0.0138 mg/L	0.00001	0.0138 mg/L	0.00001	0.09%
Zn 213.857†	1665.8	0.0172 mg/L	0.00012	0.0172 mg/L	0.00012	0.67%

Sequence No.: 76

Sample ID: 0606346-14DIS

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 64

Date Collected: 6/22/2006 9:14:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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 Replicate Data: 0606346-14DIS

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2511125.3	2511125.3			21:15:31
1	Ag 328.068†	-629.9	69.8	0.0004 mg/L	0.0004 mg/L	21:15:36
1	Al 237.313†	-272.6	52.4	-0.0001 mg/L	-0.0001 mg/L	21:15:56
1	As 188.979†	3.7	2.7	0.0015 mg/L	0.0015 mg/L	21:15:56
1	B 182.528†	31.7	64.5	0.0516 mg/L	0.0516 mg/L	21:15:56
1	Ba 233.527†	4359.4	4400.8	0.0228 mg/L	0.0228 mg/L	21:15:56
1	Be 313.107†	5073.2	-189.7	-0.0001 mg/L	-0.0001 mg/L	21:15:36
1	Ca 315.886†	3581268.1	3484791.7	23.46 mg/L	23.46 mg/L	21:15:31
1	Cd 228.802†	391.2	-10.7	0.0001 mg/L	0.0001 mg/L	21:15:56
1	Co 228.616†	-335.1	67.1	-0.0010 mg/L	-0.0010 mg/L	21:15:56
1	Cr 267.716†	1725.3	-82.2	-0.0018 mg/L	-0.0018 mg/L	21:15:56
1	Cu 324.752†	1685.3	185.1	0.0008 mg/L	0.0008 mg/L	21:15:36
1	Fe 238.204†	11604.5	10319.4	0.0744 mg/L	0.0744 mg/L	21:15:36
1	Fe 234.349†	4141.6	3809.3	0.0881 mg/L	0.0881 mg/L	21:15:56
1	Mg 279.077†	95105.3	92622.0	4.208 mg/L	4.208 mg/L	21:15:36
1	Mn 257.610†	279438.8	271302.8	0.2698 mg/L	0.2698 mg/L	21:15:36
1	Mo 202.031†	16.3	7.9	-0.0011 mg/L	-0.0011 mg/L	21:15:56
1	Na 330.237†	20112.4	18429.4	39.24 mg/L	39.24 mg/L	21:15:36
1	Ni 231.604†	440.3	67.1	-0.0008 mg/L	-0.0008 mg/L	21:15:56
1	Pb 220.353†	-84.7	38.4	0.0026 mg/L	0.0026 mg/L	21:15:56
1	Sb 206.836†	82.6	0.5	0.0005 mg/L	0.0005 mg/L	21:15:56
1	Se 196.026†	-4.2	4.4	0.0043 mg/L	0.0043 mg/L	21:15:56

1	Sn 189.927†	129.1	50.1	0.0089 mg/L	0.0089 mg/L	21:15:56
1	Ti 337.279†	1053.5	94.5	-0.0007 mg/L	-0.0007 mg/L	21:15:36
1	Tl 190.801†	-15.6	-3.5	0.0172 mg/L	0.0172 mg/L	21:15:56
1	V 292.402†	2547.5	21.2	-0.0003 mg/L	-0.0003 mg/L	21:15:36
1	Zn 213.857†	2709.3	1683.0	0.0174 mg/L	0.0174 mg/L	21:15:56
2	Y 360.073	2516424.0	2516424.0			21:16:02
2	Ag 328.068†	-506.6	191.0	0.0008 mg/L	0.0008 mg/L	21:16:08
2	Al 237.313†	-242.6	82.2	0.0032 mg/L	0.0032 mg/L	21:16:28
2	As 188.979†	3.1	2.1	0.0011 mg/L	0.0011 mg/L	21:16:28
2	B 182.528†	30.2	63.0	0.0504 mg/L	0.0504 mg/L	21:16:28
2	Ba 233.527†	4364.9	4397.2	0.0228 mg/L	0.0228 mg/L	21:16:28
2	Be 313.107†	5124.1	-150.6	-0.0001 mg/L	-0.0001 mg/L	21:16:08
2	Ca 315.886†	3591949.3	3487828.1	23.48 mg/L	23.48 mg/L	21:16:02
2	Cd 228.802†	389.4	-13.3	0.0001 mg/L	0.0001 mg/L	21:16:28
2	Co 228.616†	-332.0	70.8	-0.0010 mg/L	-0.0010 mg/L	21:16:28
2	Cr 267.716†	1750.1	-61.7	-0.0017 mg/L	-0.0017 mg/L	21:16:28
2	Cu 324.752†	1699.6	195.5	0.0009 mg/L	0.0009 mg/L	21:16:08
2	Fe 238.204†	11667.5	10356.8	0.0747 mg/L	0.0747 mg/L	21:16:08
2	Fe 234.349†	4144.3	3803.5	0.0880 mg/L	0.0880 mg/L	21:16:28
2	Mg 279.077†	95253.0	92570.4	4.206 mg/L	4.206 mg/L	21:16:08
2	Mn 257.610†	280102.7	271375.0	0.2699 mg/L	0.2699 mg/L	21:16:08
2	Mo 202.031†	9.3	1.1	-0.0016 mg/L	-0.0016 mg/L	21:16:28
2	Na 330.237†	20109.5	18385.4	39.15 mg/L	39.15 mg/L	21:16:08
2	Ni 231.604†	440.7	66.5	-0.0008 mg/L	-0.0008 mg/L	21:16:28
2	Pb 220.353†	-79.9	43.3	0.0031 mg/L	0.0031 mg/L	21:16:28
2	Sb 206.836†	77.8	-4.3	-0.0009 mg/L	-0.0009 mg/L	21:16:28
2	Se 196.026†	-2.3	6.2	0.0068 mg/L	0.0068 mg/L	21:16:28
2	Sn 189.927†	128.5	49.3	0.0087 mg/L	0.0087 mg/L	21:16:28
2	Ti 337.279†	974.6	15.7	-0.0008 mg/L	-0.0008 mg/L	21:16:08
2	Tl 190.801†	-15.0	-2.9	0.0178 mg/L	0.0178 mg/L	21:16:28
2	V 292.402†	2499.9	-30.3	-0.0005 mg/L	-0.0005 mg/L	21:16:08
2	Zn 213.857†	2714.8	1682.7	0.0174 mg/L	0.0174 mg/L	21:16:28

Mean Data: 0606346-14DIS

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 360.073	2513774.6					3746.75	0.15%
Ag 328.068†	130.4	0.0006 mg/L		0.00025	0.0006 mg/L	0.00025	42.43%
Al 237.313†	67.3	0.0016 mg/L		0.00235	0.0016 mg/L	0.00235	149.59%
As 188.979†	2.4	0.0013 mg/L		0.00034	0.0013 mg/L	0.00034	26.34%
B 182.528†	63.8	0.0510 mg/L		0.00086	0.0510 mg/L	0.00086	1.69%
Ba 233.527†	4399.0	0.0228 mg/L		0.00001	0.0228 mg/L	0.00001	0.06%
Be 313.107†	-170.2	-0.0001 mg/L		0.00000	-0.0001 mg/L	0.00000	3.15%
Ca 315.886†	3486309.9	23.47 mg/L		0.014	23.47 mg/L	0.014	0.06%
Cd 228.802†	-12.0	0.0001 mg/L		0.00002	0.0001 mg/L	0.00002	24.99%
Co 228.616†	69.0	-0.0010 mg/L		0.00004	-0.0010 mg/L	0.00004	3.65%
Cr 267.716†	-71.9	-0.0017 mg/L		0.00010	-0.0017 mg/L	0.00010	5.54%
Cu 324.752†	190.3	0.0009 mg/L		0.00004	0.0009 mg/L	0.00004	4.67%
Fe 238.204†	10338.1	0.0746 mg/L		0.00021	0.0746 mg/L	0.00021	0.28%
Fe 234.349†	3806.4	0.0880 mg/L		0.00010	0.0880 mg/L	0.00010	0.11%
Mg 279.077†	92596.2	4.207 mg/L		0.0017	4.207 mg/L	0.0017	0.04%
Mn 257.610†	271338.9	0.2699 mg/L		0.00005	0.2699 mg/L	0.00005	0.02%
Mo 202.031†	4.5	-0.0013 mg/L		0.00037	-0.0013 mg/L	0.00037	27.75%
Na 330.237†	18407.4	39.19 mg/L		0.065	39.19 mg/L	0.065	0.17%
Ni 231.604†	66.8	-0.0008 mg/L		0.00001	-0.0008 mg/L	0.00001	0.89%
Pb 220.353†	40.9	0.0028 mg/L		0.00038	0.0028 mg/L	0.00038	13.23%
Sb 206.836†	-1.9	-0.0002 mg/L		0.00095	-0.0002 mg/L	0.00095	446.08%
Se 196.026†	5.3	0.0056 mg/L		0.00175	0.0056 mg/L	0.00175	31.54%
Sn 189.927†	49.7	0.0088 mg/L		0.00018	0.0088 mg/L	0.00018	2.09%
Ti 337.279†	55.1	-0.0007 mg/L		0.00007	-0.0007 mg/L	0.00007	10.29%
Tl 190.801†	-3.2	0.0175 mg/L		0.00037	0.0175 mg/L	0.00037	2.13%
V 292.402†	-4.5	-0.0004 mg/L		0.00015	-0.0004 mg/L	0.00015	39.49%
Zn 213.857†	1682.8	0.0174 mg/L		0.00000	0.0174 mg/L	0.00000	0.01%

Sequence No.: 77  
 Sample ID: 0606346-15DIS  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 65  
 Date Collected: 6/22/2006 9:18:03 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

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Replicate Data: 0606346-15DIS

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2505595.5	2505595.5			21:19:34
1	Ag 328.068†	-572.9	124.1	0.0006 mg/L	0.0006 mg/L	21:19:40
1	Al 237.313†	-281.1	43.5	-0.0012 mg/L	-0.0012 mg/L	21:20:00
1	As 188.979†	-0.6	-1.5	-0.0020 mg/L	-0.0020 mg/L	21:20:00
1	B 182.528†	29.7	62.7	0.0501 mg/L	0.0501 mg/L	21:20:00
1	Ba 233.527†	4685.6	4728.5	0.0247 mg/L	0.0247 mg/L	21:20:00
1	Be 313.107†	4962.8	-286.6	-0.0002 mg/L	-0.0002 mg/L	21:19:40
1	Ca 315.886†	3624714.0	3534895.6	23.79 mg/L	23.79 mg/L	21:19:34
1	Cd 228.802†	406.8	5.3	0.0003 mg/L	0.0003 mg/L	21:20:00
1	Co 228.616†	-339.0	62.7	-0.0011 mg/L	-0.0011 mg/L	21:20:00
1	Cr 267.716†	1747.0	-57.4	-0.0016 mg/L	-0.0016 mg/L	21:20:00
1	Cu 324.752†	1612.1	117.2	0.0005 mg/L	0.0005 mg/L	21:19:40
1	Fe 238.204†	14770.8	13434.9	0.0991 mg/L	0.0991 mg/L	21:19:40
1	Fe 234.349†	5144.7	4797.3	0.1122 mg/L	0.1122 mg/L	21:20:00
1	Mg 279.077†	93349.7	91112.7	4.139 mg/L	4.139 mg/L	21:19:40
1	Mn 257.610†	283717.7	276079.9	0.2746 mg/L	0.2746 mg/L	21:19:40
1	Mo 202.031†	5.5	-2.6	-0.0019 mg/L	-0.0019 mg/L	21:20:00
1	Na 330.237†	19958.4	18322.3	39.02 mg/L	39.02 mg/L	21:19:40
1	Ni 231.604†	463.0	90.1	-0.0004 mg/L	-0.0004 mg/L	21:20:00
1	Pb 220.353†	-83.3	39.6	0.0027 mg/L	0.0027 mg/L	21:20:00
1	Sb 206.836†	73.2	-8.4	-0.0020 mg/L	-0.0020 mg/L	21:20:00
1	Se 196.026†	0.3	8.7	0.0103 mg/L	0.0103 mg/L	21:20:00
1	Sn 189.927†	113.0	34.6	0.0041 mg/L	0.0041 mg/L	21:20:00
1	Ti 337.279†	1133.9	175.2	-0.0006 mg/L	-0.0006 mg/L	21:19:40
1	Tl 190.801†	-6.3	5.5	0.0256 mg/L	0.0256 mg/L	21:20:00
1	V 292.402†	2569.9	48.5	-0.0002 mg/L	-0.0002 mg/L	21:19:40
1	Zn 213.857†	2571.6	1554.3	0.0160 mg/L	0.0160 mg/L	21:20:00
2	Y 360.073	2520230.8	2520230.8			21:20:06
2	Ag 328.068†	-570.2	130.0	0.0006 mg/L	0.0006 mg/L	21:20:11
2	Al 237.313†	-249.9	75.3	0.0023 mg/L	0.0023 mg/L	21:20:31
2	As 188.979†	3.9	2.8	0.0017 mg/L	0.0017 mg/L	21:20:31
2	B 182.528†	27.9	60.7	0.0485 mg/L	0.0485 mg/L	21:20:31
2	Ba 233.527†	4675.1	4691.9	0.0244 mg/L	0.0244 mg/L	21:20:31
2	Be 313.107†	5134.0	-148.5	-0.0001 mg/L	-0.0001 mg/L	21:20:11
2	Ca 315.886†	3642526.3	3531635.2	23.77 mg/L	23.77 mg/L	21:20:06
2	Cd 228.802†	403.3	-0.4	0.0002 mg/L	0.0002 mg/L	21:20:31
2	Co 228.616†	-344.6	59.1	-0.0012 mg/L	-0.0012 mg/L	21:20:31
2	Cr 267.716†	1739.3	-74.8	-0.0018 mg/L	-0.0018 mg/L	21:20:31
2	Cu 324.752†	1645.0	140.0	0.0006 mg/L	0.0006 mg/L	21:20:11
2	Fe 238.204†	14775.4	13355.6	0.0985 mg/L	0.0985 mg/L	21:20:11
2	Fe 234.349†	5152.1	4775.3	0.1117 mg/L	0.1117 mg/L	21:20:31
2	Mg 279.077†	94010.0	91224.4	4.144 mg/L	4.144 mg/L	21:20:11
2	Mn 257.610†	285266.7	275975.0	0.2745 mg/L	0.2745 mg/L	21:20:11
2	Mo 202.031†	16.0	7.5	-0.0011 mg/L	-0.0011 mg/L	21:20:31
2	Na 330.237†	20225.9	18468.8	39.32 mg/L	39.32 mg/L	21:20:11
2	Ni 231.604†	452.1	76.9	-0.0006 mg/L	-0.0006 mg/L	21:20:31
2	Pb 220.353†	-104.9	19.1	0.0004 mg/L	0.0004 mg/L	21:20:31
2	Sb 206.836†	78.5	-3.7	-0.0007 mg/L	-0.0007 mg/L	21:20:31
2	Se 196.026†	-1.7	6.8	0.0076 mg/L	0.0076 mg/L	21:20:31
2	Sn 189.927†	139.5	59.8	0.0120 mg/L	0.0120 mg/L	21:20:31
2	Ti 337.279†	1035.7	73.5	-0.0007 mg/L	-0.0007 mg/L	21:20:11
2	Tl 190.801†	-6.0	5.8	0.0259 mg/L	0.0259 mg/L	21:20:31
2	V 292.402†	2577.8	41.6	-0.0002 mg/L	-0.0002 mg/L	21:20:11
2	Zn 213.857†	2569.0	1537.3	0.0158 mg/L	0.0158 mg/L	21:20:31

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Mean Data: 0606346-15DIS

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2512913.2				10348.74	0.41%
Ag 328.068†	127.0	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	2.09%
Al 237.313†	59.4	0.0006 mg/L	0.00251	0.0006 mg/L	0.00251	442.72%
As 188.979†	0.7	-0.0001 mg/L	0.00256	-0.0001 mg/L	0.00256	>999.9%
B 182.528†	61.7	0.0493 mg/L	0.00110	0.0493 mg/L	0.00110	2.24%
Ba 233.527†	4710.2	0.0245 mg/L	0.00014	0.0245 mg/L	0.00014	0.58%
Be 313.107†	-217.6	-0.0001 mg/L	0.00002	-0.0001 mg/L	0.00002	10.52%

Ca 315.886†	3533265.4	23.78 mg/L	0.016	23.78 mg/L	0.016	0.07%
Cd 228.802†	2.5	0.0003 mg/L	0.00006	0.0003 mg/L	0.00006	21.46%
Co 228.616†	60.9	-0.0011 mg/L	0.00003	-0.0011 mg/L	0.00003	3.10%
Cr 267.716†	-66.1	-0.0017 mg/L	0.00008	-0.0017 mg/L	0.00008	4.79%
Cu 324.752†	128.6	0.0005 mg/L	0.00009	0.0005 mg/L	0.00009	16.82%
Fe 238.204†	13395.3	0.0988 mg/L	0.00044	0.0988 mg/L	0.00044	0.45%
Fe 234.349†	4786.3	0.1119 mg/L	0.00038	0.1119 mg/L	0.00038	0.34%
Mg 279.077†	91168.6	4.142 mg/L	0.0036	4.142 mg/L	0.0036	0.09%
Mn 257.610†	276027.5	0.2746 mg/L	0.00007	0.2746 mg/L	0.00007	0.03%
Mo 202.031†	2.5	-0.0015 mg/L	0.00055	-0.0015 mg/L	0.00055	37.02%
Na 330.237†	18395.5	39.17 mg/L	0.217	39.17 mg/L	0.217	0.55%
Ni 231.604†	83.5	-0.0005 mg/L	0.00016	-0.0005 mg/L	0.00016	32.37%
Pb 220.353†	29.4	0.0016 mg/L	0.00159	0.0016 mg/L	0.00159	101.39%
Sb 206.836†	-6.1	-0.0014 mg/L	0.00091	-0.0014 mg/L	0.00091	67.28%
Se 196.026†	7.7	0.0090 mg/L	0.00191	0.0090 mg/L	0.00191	21.27%
Sn 189.927†	47.2	0.0080 mg/L	0.00560	0.0080 mg/L	0.00560	69.67%
Ti 337.279†	124.4	-0.0006 mg/L	0.00010	-0.0006 mg/L	0.00010	15.24%
Tl 190.801†	5.7	0.0257 mg/L	0.00022	0.0257 mg/L	0.00022	0.84%
V 292.402†	45.1	-0.0002 mg/L	0.00002	-0.0002 mg/L	0.00002	11.83%
Zn 213.857†	1545.8	0.0159 mg/L	0.00013	0.0159 mg/L	0.00013	0.81%

Sequence No.: 78  
 Sample ID: BF62207-DUP2  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 66  
 Date Collected: 6/22/2006 9:22:08 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: BF62207-DUP2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2506107.0	2506107.0					21:23:39
1	Ag 328.068†	-685.9	14.0	0.0003	mg/L	0.0003	mg/L	21:23:44
1	Al 237.313†	-200.2	122.5	0.0077	mg/L	0.0077	mg/L	21:24:04
1	As 188.979†	0.6	-0.4	-0.0010	mg/L	-0.0010	mg/L	21:24:04
1	B 182.528†	30.5	63.4	0.0506	mg/L	0.0506	mg/L	21:24:04
1	Ba 233.527†	4634.9	4678.2	0.0244	mg/L	0.0244	mg/L	21:24:04
1	Be 313.107†	5124.9	-129.4	-0.0001	mg/L	-0.0001	mg/L	21:23:44
1	Ca 315.886†	3577752.6	3488345.2	23.48	mg/L	23.48	mg/L	21:23:39
1	Cd 228.802†	389.1	-12.0	0.0001	mg/L	0.0001	mg/L	21:24:04
1	Co 228.616†	-353.6	48.4	-0.0013	mg/L	-0.0013	mg/L	21:24:04
1	Cr 267.716†	1756.4	-48.5	-0.0016	mg/L	-0.0016	mg/L	21:24:04
1	Cu 324.752†	1688.9	191.9	0.0009	mg/L	0.0009	mg/L	21:23:44
1	Fe 238.204†	13459.1	12151.9	0.0890	mg/L	0.0890	mg/L	21:23:44
1	Fe 234.349†	4704.6	4366.8	0.1017	mg/L	0.1017	mg/L	21:24:04
1	Mg 279.077†	92191.3	89963.7	4.087	mg/L	4.087	mg/L	21:23:44
1	Mn 257.610†	280608.6	272989.4	0.2715	mg/L	0.2715	mg/L	21:23:44
1	Mo 202.031†	26.2	17.6	-0.0003	mg/L	-0.0003	mg/L	21:24:04
1	Na 330.237†	19815.1	18178.5	38.71	mg/L	38.71	mg/L	21:23:44
1	Ni 231.604†	454.1	81.3	-0.0005	mg/L	-0.0005	mg/L	21:24:04
1	Pb 220.353†	-103.2	20.2	0.0006	mg/L	0.0006	mg/L	21:24:04
1	Sb 206.836†	80.1	-1.7	-0.0002	mg/L	-0.0002	mg/L	21:24:04
1	Se 196.026†	-1.7	6.8	0.0077	mg/L	0.0077	mg/L	21:24:04
1	Sn 189.927†	114.2	35.8	0.0044	mg/L	0.0044	mg/L	21:24:04
1	Ti 337.279†	1005.7	49.9	-0.0007	mg/L	-0.0007	mg/L	21:23:44
1	Tl 190.801†	-12.2	-0.2	0.0203	mg/L	0.0203	mg/L	21:24:04
1	V 292.402†	2527.3	6.4	-0.0003	mg/L	-0.0003	mg/L	21:23:44
1	Zn 213.857†	2566.0	1548.4	0.0160	mg/L	0.0160	mg/L	21:24:04
2	Y 360.073	2506431.4	2506431.4					21:24:10
2	Ag 328.068†	-635.2	63.5	0.0004	mg/L	0.0004	mg/L	21:24:16
2	Al 237.313†	-184.1	138.3	0.0095	mg/L	0.0095	mg/L	21:24:36
2	As 188.979†	2.7	1.7	0.0007	mg/L	0.0007	mg/L	21:24:36
2	B 182.528†	26.2	59.2	0.0473	mg/L	0.0473	mg/L	21:24:36
2	Ba 233.527†	4586.9	4630.7	0.0241	mg/L	0.0241	mg/L	21:24:36
2	Be 313.107†	5076.7	-177.1	-0.0001	mg/L	-0.0001	mg/L	21:24:16
2	Ca 315.886†	3573085.3	3483339.2	23.45	mg/L	23.45	mg/L	21:24:10
2	Cd 228.802†	402.6	1.1	0.0002	mg/L	0.0002	mg/L	21:24:36
2	Co 228.616†	-352.8	49.3	-0.0013	mg/L	-0.0013	mg/L	21:24:36
2	Cr 267.716†	1793.5	-12.6	-0.0013	mg/L	-0.0013	mg/L	21:24:36
2	Cu 324.752†	1620.5	124.9	0.0005	mg/L	0.0005	mg/L	21:24:16

2	Fe 238.204†	13350.0	12043.7	0.0881 mg/L	0.0881 mg/L	21:24:16
2	Fe 234.349†	4685.6	4347.7	0.1012 mg/L	0.1012 mg/L	21:24:36
2	Mg 279.077†	92291.0	90049.3	4.091 mg/L	4.091 mg/L	21:24:16
2	Mn 257.610†	280818.3	273158.6	0.2717 mg/L	0.2717 mg/L	21:24:16
2	Mo 202.031†	19.1	10.6	-0.0009 mg/L	-0.0009 mg/L	21:24:36
2	Na 330.237†	19803.4	18164.6	38.69 mg/L	38.69 mg/L	21:24:16
2	Ni 231.604†	454.8	82.0	-0.0005 mg/L	-0.0005 mg/L	21:24:36
2	Pb 220.353†	-110.9	12.7	-0.0003 mg/L	-0.0003 mg/L	21:24:36
2	Sb 206.836†	73.1	-8.5	-0.0020 mg/L	-0.0020 mg/L	21:24:36
2	Se 196.026†	-3.9	4.7	0.0047 mg/L	0.0047 mg/L	21:24:36
2	Sn 189.927†	119.5	40.9	0.0061 mg/L	0.0061 mg/L	21:24:36
2	Ti 337.279†	1108.9	150.5	-0.0006 mg/L	-0.0006 mg/L	21:24:16
2	Tl 190.801†	-14.8	-2.8	0.0180 mg/L	0.0180 mg/L	21:24:36
2	V 292.402†	2555.8	33.9	-0.0002 mg/L	-0.0002 mg/L	21:24:16
2	Zn 213.857†	2573.8	1555.6	0.0160 mg/L	0.0160 mg/L	21:24:36

Mean Data: BF62207-DUP2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2506269.2						229.34	0.01%
Ag 328.068†	38.7	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	31.76%
Al 237.313†	130.4	0.0086	mg/L	0.00124	0.0086	mg/L	0.00124	14.44%
As 188.979†	0.7	-0.0001	mg/L	0.00123	-0.0001	mg/L	0.00123	934.20%
B 182.528†	61.3	0.0490	mg/L	0.00238	0.0490	mg/L	0.00238	4.86%
Ba 233.527†	4654.5	0.0242	mg/L	0.00018	0.0242	mg/L	0.00018	0.76%
Be 313.107†	-153.2	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	3.89%
Ca 315.886†	3485842.2	23.46	mg/L	0.024	23.46	mg/L	0.024	0.10%
Cd 228.802†	-5.5	0.0002	mg/L	0.00011	0.0002	mg/L	0.00011	65.00%
Co 228.616†	48.9	-0.0013	mg/L	0.00001	-0.0013	mg/L	0.00001	0.64%
Cr 267.716†	-30.6	-0.0015	mg/L	0.00017	-0.0015	mg/L	0.00017	11.50%
Cu 324.752†	158.4	0.0007	mg/L	0.00026	0.0007	mg/L	0.00026	37.65%
Fe 238.204†	12097.8	0.0885	mg/L	0.00061	0.0885	mg/L	0.00061	0.68%
Fe 234.349†	4357.3	0.1015	mg/L	0.00033	0.1015	mg/L	0.00033	0.32%
Mg 279.077†	90006.5	4.089	mg/L	0.0028	4.089	mg/L	0.0028	0.07%
Mn 257.610†	273074.0	0.2716	mg/L	0.00012	0.2716	mg/L	0.00012	0.04%
Mo 202.031†	14.1	-0.0006	mg/L	0.00038	-0.0006	mg/L	0.00038	63.77%
Na 330.237†	18171.5	38.70	mg/L	0.021	38.70	mg/L	0.021	0.05%
Ni 231.604†	81.6	-0.0005	mg/L	0.00001	-0.0005	mg/L	0.00001	1.49%
Pb 220.353†	16.4	0.0002	mg/L	0.00058	0.0002	mg/L	0.00058	379.98%
Sb 206.836†	-5.1	-0.0011	mg/L	0.00133	-0.0011	mg/L	0.00133	121.05%
Se 196.026†	5.7	0.0062	mg/L	0.00211	0.0062	mg/L	0.00211	34.19%
Sn 189.927†	38.4	0.0052	mg/L	0.00114	0.0052	mg/L	0.00114	21.77%
Ti 337.279†	100.2	-0.0007	mg/L	0.00009	-0.0007	mg/L	0.00009	14.33%
Tl 190.801†	-1.5	0.0191	mg/L	0.00166	0.0191	mg/L	0.00166	8.66%
V 292.402†	20.2	-0.0003	mg/L	0.00008	-0.0003	mg/L	0.00008	29.66%
Zn 213.857†	1552.0	0.0160	mg/L	0.00006	0.0160	mg/L	0.00006	0.34%

Duplicate Check: BF62207-DUP2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.0006	0.0003	0.000	mg/L	57.2
Al 237.313	0.0006	0.0086	0.001	mg/L	175.3
As 188.979	-0.0001	-0.0001	0.001	mg/L	-7.7
B 182.528	0.0493	0.0490	0.002	mg/L	0.7
Ba 233.527	0.0245	0.0242	0.000	mg/L	1.3
Be 313.107	-0.0001	-0.0001	0.000	mg/L	-7.2
Ca 315.886	23.78	23.46	0.024	mg/L	1.4
Cd 228.802	0.0003	0.0002	0.000	mg/L	44.5
Co 228.616	-0.0011	-0.0013	0.000	mg/L	-14.0
Cr 267.716	-0.0017	-0.0015	0.000	mg/L	-14.9
Cu 324.752	0.0005	0.0007	0.000	mg/L	26.9
Fe 238.204	0.0988	0.0885	0.001	mg/L	11.0
Fe 234.349	0.1119	0.1015	0.000	mg/L	9.8
Mg 279.077	4.142	4.089	0.003	mg/L	1.3
Mn 257.610	0.2746	0.2716	0.000	mg/L	1.1
Mo 202.031	-0.0015	-0.0006	0.000	mg/L	-86.1
Na 330.237	39.17	38.70	0.021	mg/L	1.2
Ni 231.604	-0.0005	-0.0005	0.000	mg/L	-6.3



Pb 220.353	0.0016	0.0002	0.001	mg/L	164.6
Sb 206.836	-0.0014	-0.0011	0.001	mg/L	-20.8
Se 196.026	0.0090	0.0062	0.002	mg/L	37.0
Sn 189.927	0.0080	0.0052	0.001	mg/L	41.9
Ti 337.279	-0.0006	-0.0007	0.000	mg/L	-5.0
Tl 190.801	0.0257	0.0191	0.002	mg/L	29.3
V 292.402	-0.0002	-0.0003	0.000	mg/L	-45.0
Zn 213.857	0.0159	0.0160	0.000	mg/L	0.4

Sequence No.: 79

Sample ID: BF62207-MS2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 67

Date Collected: 6/22/2006 9:26:12 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: BF62207-MS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2472588.2	2472588.2			21:27:45
1	Ag 328.068†	89648.3	89354.8	0.2661 mg/L	0.2661 mg/L	21:27:50
1	Al 237.313†	23499.3	23561.2	2.599 mg/L	2.599 mg/L	21:27:50
1	As 188.979†	637.5	629.6	0.5270 mg/L	0.5270 mg/L	21:28:10
1	B 182.528†	682.1	708.4	0.5715 mg/L	0.5715 mg/L	21:28:10
1	Ba 233.527†	99136.6	98211.4	0.5393 mg/L	0.5393 mg/L	21:27:50
1	Be 313.107†	347669.2	338750.2	0.0538 mg/L	0.0538 mg/L	21:27:45
1	Ca 315.886†	4392593.7	4341637.8	29.23 mg/L	29.23 mg/L	21:27:45
1	Cd 228.802†	22604.1	21966.1	0.2618 mg/L	0.2618 mg/L	21:27:50
1	Co 228.616†	36925.6	36916.7	0.5169 mg/L	0.5169 mg/L	21:27:50
1	Cr 267.716†	82614.1	79951.4	0.5282 mg/L	0.5282 mg/L	21:27:50
1	Cu 324.752†	98710.8	96178.9	0.5332 mg/L	0.5332 mg/L	21:27:50
1	Fe 238.204†	351854.5	347038.0	2.745 mg/L	2.745 mg/L	21:27:50
1	Fe 234.349†	114236.4	112767.3	2.743 mg/L	2.743 mg/L	21:27:50
1	Mg 279.077†	206790.2	204533.4	9.290 mg/L	9.290 mg/L	21:27:50
1	Mn 257.610†	810674.8	800991.9	0.8018 mg/L	0.8018 mg/L	21:27:45
1	Mo 202.031†	7053.7	6968.9	0.5317 mg/L	0.5317 mg/L	21:28:10
1	Na 330.237†	33499.4	31975.8	67.60 mg/L	67.60 mg/L	21:27:50
1	Ni 231.604†	30767.5	30070.4	0.5266 mg/L	0.5266 mg/L	21:27:50
1	Pb 220.353†	4648.6	4718.8	0.5203 mg/L	0.5203 mg/L	21:28:10
1	Sb 206.836†	2027.2	1925.2	0.5221 mg/L	0.5221 mg/L	21:28:10
1	Se 196.026†	765.5	765.6	1.069 mg/L	1.069 mg/L	21:28:10
1	Sn 189.927†	1849.7	1753.9	0.5473 mg/L	0.5473 mg/L	21:28:10
1	Ti 337.279†	404641.8	399301.1	0.5299 mg/L	0.5299 mg/L	21:27:45
1	Tl 190.801†	576.0	581.3	0.5511 mg/L	0.5511 mg/L	21:28:10
1	V 292.402†	132695.3	128789.5	0.5285 mg/L	0.5285 mg/L	21:27:50
1	Zn 213.857†	51789.2	50269.1	0.5359 mg/L	0.5359 mg/L	21:27:50
2	Y 360.073	2514009.6	2514009.6			21:28:17
2	Ag 328.068†	90938.3	89148.7	0.2654 mg/L	0.2654 mg/L	21:28:23
2	Al 237.313†	23856.6	23525.8	2.596 mg/L	2.596 mg/L	21:28:23
2	As 188.979†	650.3	631.7	0.5287 mg/L	0.5287 mg/L	21:28:43
2	B 182.528†	696.0	710.7	0.5734 mg/L	0.5734 mg/L	21:28:43
2	Ba 233.527†	100308.7	97736.1	0.5367 mg/L	0.5367 mg/L	21:28:23
2	Be 313.107†	352230.4	337521.5	0.0536 mg/L	0.0536 mg/L	21:28:17
2	Ca 315.886†	4445986.1	4321993.5	29.10 mg/L	29.10 mg/L	21:28:17
2	Cd 228.802†	22822.5	21810.2	0.2599 mg/L	0.2599 mg/L	21:28:23
2	Co 228.616†	37352.4	36730.2	0.5143 mg/L	0.5143 mg/L	21:28:23
2	Cr 267.716†	83653.3	79615.9	0.5260 mg/L	0.5260 mg/L	21:28:23
2	Cu 324.752†	100017.3	95841.2	0.5313 mg/L	0.5313 mg/L	21:28:23
2	Fe 238.204†	356043.5	345379.0	2.731 mg/L	2.731 mg/L	21:28:23
2	Fe 234.349†	115620.9	112252.5	2.731 mg/L	2.731 mg/L	21:28:23
2	Mg 279.077†	208892.7	203208.8	9.230 mg/L	9.230 mg/L	21:28:23
2	Mn 257.610†	820672.6	797506.5	0.7983 mg/L	0.7983 mg/L	21:28:17
2	Mo 202.031†	7112.7	6911.3	0.5273 mg/L	0.5273 mg/L	21:28:43
2	Na 330.237†	34206.7	32117.9	67.89 mg/L	67.89 mg/L	21:28:23
2	Ni 231.604†	31074.5	29867.7	0.5231 mg/L	0.5231 mg/L	21:28:23
2	Pb 220.353†	4680.0	4673.7	0.5153 mg/L	0.5153 mg/L	21:28:43
2	Sb 206.836†	2032.2	1897.0	0.5144 mg/L	0.5144 mg/L	21:28:43
2	Se 196.026†	778.2	765.5	1.069 mg/L	1.069 mg/L	21:28:43
2	Sn 189.927†	1870.9	1744.4	0.5443 mg/L	0.5443 mg/L	21:28:43
2	Ti 337.279†	411354.7	399237.1	0.5298 mg/L	0.5298 mg/L	21:28:17

2	Tl 190.801†	603.6	598.8	0.5671 mg/L	0.5671 mg/L	21:28:43
2	V 292.402†	134440.7	128324.9	0.5266 mg/L	0.5266 mg/L	21:28:23
2	Zn 213.857†	52307.3	49929.2	0.5322 mg/L	0.5322 mg/L	21:28:23

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Mean Data: BF62207-MS2

Analyte	Mean Corrected		Calib		Std.Dev.	Sample		RSD
	Intensity	Conc.	Units	Conc.		Units	Std.Dev.	
Y 360.073	2493298.9						29289.38	1.17%
Ag 328.068†	89251.7	0.2657	mg/L	0.00043	0.2657	mg/L	0.00043	0.16%
Al 237.313†	23543.5	2.598	mg/L	0.0027	2.598	mg/L	0.0027	0.10%
As 188.979†	630.7	0.5279	mg/L	0.00124	0.5279	mg/L	0.00124	0.23%
B 182.528†	709.5	0.5725	mg/L	0.00136	0.5725	mg/L	0.00136	0.24%
Ba 233.527†	97973.8	0.5380	mg/L	0.00185	0.5380	mg/L	0.00185	0.34%
Be 313.107†	338135.9	0.0537	mg/L	0.00014	0.0537	mg/L	0.00014	0.26%
Ca 315.886†	4331815.7	29.16	mg/L	0.094	29.16	mg/L	0.094	0.32%
Cd 228.802†	21888.1	0.2609	mg/L	0.00133	0.2609	mg/L	0.00133	0.51%
Co 228.616†	36823.5	0.5156	mg/L	0.00186	0.5156	mg/L	0.00186	0.36%
Cr 267.716†	79783.6	0.5271	mg/L	0.00157	0.5271	mg/L	0.00157	0.30%
Cu 324.752†	96010.1	0.5322	mg/L	0.00132	0.5322	mg/L	0.00132	0.25%
Fe 238.204†	346208.5	2.738	mg/L	0.0093	2.738	mg/L	0.0093	0.34%
Fe 234.349†	112509.9	2.737	mg/L	0.0089	2.737	mg/L	0.0089	0.32%
Mg 279.077†	203871.1	9.260	mg/L	0.0426	9.260	mg/L	0.0426	0.46%
Mn 257.610†	799249.2	0.8001	mg/L	0.00248	0.8001	mg/L	0.00248	0.31%
Mo 202.031†	6940.1	0.5295	mg/L	0.00311	0.5295	mg/L	0.00311	0.59%
Na 330.237†	32046.9	67.74	mg/L	0.210	67.74	mg/L	0.210	0.31%
Ni 231.604†	29969.0	0.5249	mg/L	0.00252	0.5249	mg/L	0.00252	0.48%
Pb 220.353†	4696.3	0.5178	mg/L	0.00353	0.5178	mg/L	0.00353	0.68%
Sb 206.836†	1911.1	0.5183	mg/L	0.00545	0.5183	mg/L	0.00545	1.05%
Se 196.026†	765.5	1.069	mg/L	0.0001	1.069	mg/L	0.0001	0.01%
Sn 189.927†	1749.1	0.5458	mg/L	0.00212	0.5458	mg/L	0.00212	0.39%
Ti 337.279†	399269.1	0.5299	mg/L	0.00006	0.5299	mg/L	0.00006	0.01%
Tl 190.801†	590.1	0.5591	mg/L	0.01129	0.5591	mg/L	0.01129	2.02%
V 292.402†	128557.2	0.5275	mg/L	0.00135	0.5275	mg/L	0.00135	0.26%
Zn 213.857†	50099.2	0.5341	mg/L	0.00256	0.5341	mg/L	0.00256	0.48%

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Matrix Recovery Check: BF62207-MS2

Analyte	Expected	Measured	Std.	Units	Recovery (%)
	Conc.	Conc.	Dev.		
Ag 328.068	0.2506	0.2657	0.000	mg/L	106.1
Al 237.313	2.501	2.598	0.003	mg/L	103.9
As 188.979	0.4999	0.5279	0.001	mg/L	105.6
B 182.528	0.5493	0.5725	0.001	mg/L	104.6
Ba 233.527	0.5245	0.5380	0.002	mg/L	102.7
Be 313.107	0.0499	0.0537	0.000	mg/L	107.7
Ca 315.886	28.78	29.16	0.094	mg/L	107.6
Cd 228.802	0.2503	0.2609	0.001	mg/L	104.2
Co 228.616	0.4989	0.5156	0.002	mg/L	103.3
Cr 267.716	0.4983	0.5271	0.002	mg/L	105.8
Cu 324.752	0.5005	0.5322	0.001	mg/L	106.3
Fe 238.204	2.599	2.738	0.009	mg/L	105.6
Fe 234.349	2.612	2.737	0.009	mg/L	105.0
Mg 279.077	9.142	9.260	0.043	mg/L	102.4
Mn 257.610	0.7746	0.8001	0.002	mg/L	105.1
Mo 202.031	0.4985	0.5295	0.003	mg/L	106.2
Na 330.237	64.17	67.74	0.210	mg/L	114.3
Ni 231.604	0.4995	0.5249	0.003	mg/L	105.1
Pb 220.353	0.5016	0.5178	0.004	mg/L	103.2
Sb 206.836	0.4986	0.5183	0.005	mg/L	103.9
Se 196.026	1.009	1.069	0.000	mg/L	106.0
Sn 189.927	0.5080	0.5458	0.002	mg/L	107.6
Ti 337.279	0.4994	0.5299	0.000	mg/L	106.1
Tl 190.801	0.5257	0.5591	0.011	mg/L	106.7
V 292.402	0.4998	0.5275	0.001	mg/L	105.5
Zn 213.857	0.5159	0.5341	0.003	mg/L	103.6

Sequence No.: 80  
Sample ID: BF62207-SD2  
Analyst:

Autosampler Location: 68  
Date Collected: 6/22/2006 9:30:19 PM  
Data Type: Original

Initial Sample Wt:  
Dilution:Initial Sample Vol:  
Sample Prep Vol:-----  
Replicate Data: BF62207-SD2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2505168.0	2505168.0			21:31:51
1	Ag 328.068†	-563.7	133.0	0.0006 mg/L	0.0006 mg/L	21:31:56
1	Al 237.313†	-267.4	56.8	0.0045 mg/L	0.0045 mg/L	21:32:16
1	As 188.979†	1.4	0.4	-0.0004 mg/L	-0.0004 mg/L	21:32:16
1	B 182.528†	-14.4	19.6	0.0153 mg/L	0.0153 mg/L	21:32:16
1	Ba 233.527†	878.1	1012.3	0.0042 mg/L	0.0042 mg/L	21:32:16
1	Be 313.107†	5254.3	-1.2	-0.0001 mg/L	-0.0001 mg/L	21:31:56
1	Ca 315.886†	754778.2	733753.0	4.927 mg/L	4.927 mg/L	21:31:51
1	Cd 228.802†	389.2	-11.8	0.0001 mg/L	0.0001 mg/L	21:32:16
1	Co 228.616†	-382.8	19.8	-0.0017 mg/L	-0.0017 mg/L	21:32:16
1	Cr 267.716†	1856.3	49.7	-0.0009 mg/L	-0.0009 mg/L	21:31:56
1	Cu 324.752†	1425.4	-64.7	-0.0005 mg/L	-0.0005 mg/L	21:31:56
1	Fe 238.204†	4609.1	3517.1	0.0205 mg/L	0.0205 mg/L	21:31:56
1	Fe 234.349†	1566.6	1305.1	0.0270 mg/L	0.0270 mg/L	21:32:16
1	Mg 279.077†	19300.2	18838.2	0.8540 mg/L	0.8540 mg/L	21:31:56
1	Mn 257.610†	60442.5	58157.0	0.0558 mg/L	0.0558 mg/L	21:31:56
1	Mo 202.031†	22.9	14.4	-0.0006 mg/L	-0.0006 mg/L	21:32:16
1	Na 330.237†	4661.1	3391.8	7.757 mg/L	7.757 mg/L	21:31:56
1	Ni 231.604†	408.1	36.6	-0.0013 mg/L	-0.0013 mg/L	21:32:16
1	Pb 220.353†	-100.9	22.4	0.0008 mg/L	0.0008 mg/L	21:32:16
1	Sb 206.836†	84.8	2.9	0.0011 mg/L	0.0011 mg/L	21:32:16
1	Se 196.026†	-6.6	2.0	0.0010 mg/L	0.0010 mg/L	21:32:16
1	Sn 189.927†	74.7	-2.7	-0.0077 mg/L	-0.0077 mg/L	21:32:16
1	Ti 337.279†	1188.4	228.7	-0.0005 mg/L	-0.0005 mg/L	21:31:56
1	Tl 190.801†	2.7	14.3	0.0305 mg/L	0.0305 mg/L	21:32:16
1	V 292.402†	2497.8	-21.4	-0.0004 mg/L	-0.0004 mg/L	21:31:56
1	Zn 213.857†	1505.0	513.5	0.0049 mg/L	0.0049 mg/L	21:32:16
2	Y 360.073	2509193.2	2509193.2			21:32:22
2	Ag 328.068†	-609.3	89.4	0.0005 mg/L	0.0005 mg/L	21:32:27
2	Al 237.313†	-309.7	16.0	0.0000 mg/L	0.0000 mg/L	21:32:48
2	As 188.979†	3.8	2.7	0.0016 mg/L	0.0016 mg/L	21:32:48
2	B 182.528†	-15.0	19.0	0.0148 mg/L	0.0148 mg/L	21:32:48
2	Ba 233.527†	839.2	973.0	0.0040 mg/L	0.0040 mg/L	21:32:48
2	Be 313.107†	5142.7	-118.2	-0.0001 mg/L	-0.0001 mg/L	21:32:27
2	Ca 315.886†	755763.9	733531.7	4.925 mg/L	4.925 mg/L	21:32:22
2	Cd 228.802†	393.1	-8.6	0.0001 mg/L	0.0001 mg/L	21:32:48
2	Co 228.616†	-380.5	22.6	-0.0017 mg/L	-0.0017 mg/L	21:32:48
2	Cr 267.716†	1730.4	-75.9	-0.0017 mg/L	-0.0017 mg/L	21:32:27
2	Cu 324.752†	1494.6	0.5	-0.0002 mg/L	-0.0002 mg/L	21:32:27
2	Fe 238.204†	4615.9	3516.5	0.0205 mg/L	0.0205 mg/L	21:32:27
2	Fe 234.349†	1539.4	1276.1	0.0263 mg/L	0.0263 mg/L	21:32:48
2	Mg 279.077†	19213.7	18723.6	0.8488 mg/L	0.8488 mg/L	21:32:27
2	Mn 257.610†	60367.2	57988.9	0.0556 mg/L	0.0556 mg/L	21:32:27
2	Mo 202.031†	18.7	10.2	-0.0009 mg/L	-0.0009 mg/L	21:32:48
2	Na 330.237†	4670.8	3394.0	7.761 mg/L	7.761 mg/L	21:32:27
2	Ni 231.604†	401.6	29.6	-0.0015 mg/L	-0.0015 mg/L	21:32:48
2	Pb 220.353†	-99.8	23.6	0.0009 mg/L	0.0009 mg/L	21:32:48
2	Sb 206.836†	77.2	-4.6	-0.0010 mg/L	-0.0010 mg/L	21:32:48
2	Se 196.026†	-4.8	3.8	0.0035 mg/L	0.0035 mg/L	21:32:48
2	Sn 189.927†	65.3	-12.0	-0.0106 mg/L	-0.0106 mg/L	21:32:48
2	Ti 337.279†	1106.4	146.8	-0.0006 mg/L	-0.0006 mg/L	21:32:27
2	Tl 190.801†	-0.2	11.5	0.0280 mg/L	0.0280 mg/L	21:32:48
2	V 292.402†	2532.3	8.3	-0.0003 mg/L	-0.0003 mg/L	21:32:27
2	Zn 213.857†	1513.7	519.6	0.0049 mg/L	0.0049 mg/L	21:32:48

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Mean Data: BF62207-SD2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2507180.6				2846.28	0.11%
Ag 328.068†	111.2	0.0005 mg/L	0.00009	0.0005 mg/L	0.00009	16.85%
Al 237.313†	36.4	0.0023 mg/L	0.00321	0.0023 mg/L	0.00321	141.87%
As 188.979†	1.6	0.0006 mg/L	0.00140	0.0006 mg/L	0.00140	231.37%
B 182.528†	19.3	0.0150 mg/L	0.00033	0.0150 mg/L	0.00033	2.22%

Ba 233.527†	992.6	0.0041 mg/L	0.00015	0.0041 mg/L	0.00015	3.77%
Be 313.107†	-59.7	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	10.76%
Ca 315.886†	733642.3	4.926 mg/L	0.0011	4.926 mg/L	0.0011	0.02%
Cd 228.802†	-10.2	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	21.05%
Co 228.616†	21.2	-0.0017 mg/L	0.00003	-0.0017 mg/L	0.00003	1.69%
Cr 267.716†	-13.1	-0.0013 mg/L	0.00059	-0.0013 mg/L	0.00059	45.70%
Cu 324.752†	-32.1	-0.0004 mg/L	0.00026	-0.0004 mg/L	0.00026	71.14%
Fe 238.204†	3516.8	0.0205 mg/L	0.00000	0.0205 mg/L	0.00000	0.02%
Fe 234.349†	1290.6	0.0266 mg/L	0.00050	0.0266 mg/L	0.00050	1.88%
Mg 279.077†	18780.9	0.8514 mg/L	0.00368	0.8514 mg/L	0.00368	0.43%
Mn 257.610†	58073.0	0.0557 mg/L	0.00012	0.0557 mg/L	0.00012	0.21%
Mo 202.031†	12.3	-0.0007 mg/L	0.00023	-0.0007 mg/L	0.00023	30.99%
Na 330.237†	3392.9	7.759 mg/L	0.0032	7.759 mg/L	0.0032	0.04%
Ni 231.604†	33.1	-0.0014 mg/L	0.00009	-0.0014 mg/L	0.00009	6.27%
Pb 220.353†	23.0	0.0009 mg/L	0.00009	0.0009 mg/L	0.00009	10.51%
Sb 206.836†	-0.9	0.0001 mg/L	0.00146	0.0001 mg/L	0.00146	>999.9%
Se 196.026†	2.9	0.0022 mg/L	0.00175	0.0022 mg/L	0.00175	78.01%
Sn 189.927†	-7.4	-0.0092 mg/L	0.00207	-0.0092 mg/L	0.00207	22.53%
Ti 337.279†	187.7	-0.0005 mg/L	0.00008	-0.0005 mg/L	0.00008	14.16%
Tl 190.801†	12.9	0.0292 mg/L	0.00178	0.0292 mg/L	0.00178	6.09%
V 292.402†	-6.5	-0.0004 mg/L	0.00008	-0.0004 mg/L	0.00008	21.44%
Zn 213.857†	516.6	0.0049 mg/L	0.00005	0.0049 mg/L	0.00005	0.95%

Dilution Check: BF62207-SD2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.0001	0.0005	0.000	mg/L	360.0
Al 237.313	0.0001	0.0023	0.003	mg/L	1899.1
As 188.979	0.0000	0.0006	0.001	mg/L	-2215.5
B 182.528	0.0099	0.0150	0.000	mg/L	52.6
Ba 233.527	0.0049	0.0041	0.000	mg/L	17.1
Be 313.107	0.0000	-0.0001	0.000	mg/L	-315.7
Ca 315.886	4.757	4.926	0.001	mg/L	3.6
Cd 228.802	0.0001	0.0001	0.000	mg/L	108.2
Co 228.616	-0.0002	-0.0017	0.000	mg/L	-648.3
Cr 267.716	-0.0003	-0.0013	0.001	mg/L	-278.8
Cu 324.752	0.0001	-0.0004	0.000	mg/L	437.9
Fe 238.204	0.0198	0.0205	0.000	mg/L	3.7
Fe 234.349	0.0224	0.0266	0.000	mg/L	18.9
Mg 279.077	0.8284	0.8514	0.004	mg/L	2.8
Mn 257.610	0.0549	0.0557	0.000	mg/L	1.5
Mo 202.031	-0.0003	-0.0007	0.000	mg/L	-147.7
Na 330.237	7.834	7.759	0.003	mg/L	1.0
Ni 231.604	-0.0001	-0.0014	0.000	mg/L	-1276.2
Pb 220.353	0.0003	0.0009	0.000	mg/L	178.0
Sb 206.836	-0.0003	0.0001	0.001	mg/L	-124.3
Se 196.026	0.0018	0.0022	0.002	mg/L	25.2
Sn 189.927	0.0016	-0.0092	0.002	mg/L	671.3
Ti 337.279	-0.0001	-0.0005	0.000	mg/L	-332.9
Tl 190.801	0.0051	0.0292	0.002	mg/L	468.2
V 292.402	0.0000	-0.0004	0.000	mg/L	-1005.4
Zn 213.857	0.0032	0.0049	0.000	mg/L	53.5

Sequence No.: 81  
Sample ID: CCV  
Analyst:  
Initial Sample Wt:  
Dilution:

Autosampler Location: 3  
Date Collected: 6/22/2006 9:34:24 PM  
Data Type: Original  
Initial Sample Vol:  
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2536401.2	2536401.2			21:35:58
1	Ag 328.068†	84960.5	82603.8	0.2460 mg/L	0.2460 mg/L	21:36:04
1	Al 237.313†	22536.2	22047.8	2.438 mg/L	2.438 mg/L	21:36:04
1	As 188.979†	613.3	590.4	0.4942 mg/L	0.4942 mg/L	21:36:24
1	B 182.528†	595.7	608.0	0.4905 mg/L	0.4905 mg/L	21:36:24

1	Ba	233.527†	92600.2	89441.9	0.4910 mg/L	0.4910 mg/L	21:36:04
1	Be	313.107†	330970.4	313997.3	0.0498 mg/L	0.0498 mg/L	21:35:58
1	Ca	315.886†	772998.7	742248.0	4.984 mg/L	4.984 mg/L	21:35:58
1	Cd	228.802†	21619.2	20453.9	0.2438 mg/L	0.2438 mg/L	21:36:04
1	Co	228.616†	36100.4	35202.2	0.4928 mg/L	0.4928 mg/L	21:36:04
1	Cr	267.716†	79084.8	74492.5	0.4921 mg/L	0.4921 mg/L	21:36:04
1	Cu	324.752†	92474.6	87709.4	0.4862 mg/L	0.4862 mg/L	21:36:04
1	Fe	238.204†	323362.4	310809.6	2.457 mg/L	2.457 mg/L	21:36:04
1	Fe	234.349†	104533.7	100569.0	2.446 mg/L	2.446 mg/L	21:36:04
1	Mg	279.077†	111892.0	107884.9	4.897 mg/L	4.897 mg/L	21:36:04
1	Mn	257.610†	520932.0	501443.0	0.5010 mg/L	0.5010 mg/L	21:35:58
1	Mo	202.031†	6722.7	6474.2	0.4938 mg/L	0.4938 mg/L	21:36:24
1	Na	330.237†	12614.9	11005.0	23.69 mg/L	23.69 mg/L	21:36:04
1	Ni	231.604†	29553.7	28134.5	0.4926 mg/L	0.4926 mg/L	21:36:04
1	Pb	220.353†	4532.5	4491.2	0.4951 mg/L	0.4951 mg/L	21:36:24
1	Sb	206.836†	1930.3	1781.3	0.4831 mg/L	0.4831 mg/L	21:36:24
1	Se	196.026†	725.9	708.4	0.9895 mg/L	0.9895 mg/L	21:36:24
1	Sn	189.927†	1694.8	1558.5	0.4856 mg/L	0.4856 mg/L	21:36:24
1	Ti	337.279†	393016.1	378022.0	0.5017 mg/L	0.5017 mg/L	21:35:58
1	Tl	190.801†	574.0	565.2	0.5325 mg/L	0.5325 mg/L	21:36:24
1	V	292.402†	127556.2	120532.2	0.4946 mg/L	0.4946 mg/L	21:36:04
1	Zn	213.857†	48352.7	45666.9	0.4867 mg/L	0.4867 mg/L	21:36:04
2	Y	360.073	2519282.4	2519282.4			21:36:30
2	Ag	328.068†	85284.6	83475.1	0.2486 mg/L	0.2486 mg/L	21:36:36
2	Al	237.313†	22734.4	22387.8	2.475 mg/L	2.475 mg/L	21:36:36
2	As	188.979†	612.3	593.5	0.4967 mg/L	0.4967 mg/L	21:36:56
2	B	182.528†	595.4	611.6	0.4934 mg/L	0.4934 mg/L	21:36:56
2	Ba	233.527†	92946.0	90384.3	0.4962 mg/L	0.4962 mg/L	21:36:36
2	Be	313.107†	329521.8	314759.4	0.0500 mg/L	0.0500 mg/L	21:36:30
2	Ca	315.886†	771467.1	745825.8	5.008 mg/L	5.008 mg/L	21:36:30
2	Cd	228.802†	21726.2	20699.4	0.2467 mg/L	0.2467 mg/L	21:36:36
2	Co	228.616†	36215.1	35550.1	0.4977 mg/L	0.4977 mg/L	21:36:36
2	Cr	267.716†	79427.0	75342.9	0.4978 mg/L	0.4978 mg/L	21:36:36
2	Cu	324.752†	93554.4	89363.6	0.4954 mg/L	0.4954 mg/L	21:36:36
2	Fe	238.204†	324627.2	314156.1	2.484 mg/L	2.484 mg/L	21:36:36
2	Fe	234.349†	105034.5	101740.2	2.474 mg/L	2.474 mg/L	21:36:36
2	Mg	279.077†	112278.0	108992.8	4.948 mg/L	4.948 mg/L	21:36:36
2	Mn	257.610†	518878.8	502863.0	0.5025 mg/L	0.5025 mg/L	21:36:30
2	Mo	202.031†	6751.3	6546.0	0.4993 mg/L	0.4993 mg/L	21:36:56
2	Na	330.237†	12603.1	11076.2	23.84 mg/L	23.84 mg/L	21:36:36
2	Ni	231.604†	29600.1	28373.2	0.4968 mg/L	0.4968 mg/L	21:36:36
2	Pb	220.353†	4550.9	4538.8	0.5003 mg/L	0.5003 mg/L	21:36:56
2	Sb	206.836†	1948.7	1811.8	0.4914 mg/L	0.4914 mg/L	21:36:56
2	Se	196.026†	728.2	715.3	0.9992 mg/L	0.9992 mg/L	21:36:56
2	Sn	189.927†	1694.6	1569.4	0.4891 mg/L	0.4891 mg/L	21:36:56
2	Ti	337.279†	391352.6	378982.1	0.5029 mg/L	0.5029 mg/L	21:36:30
2	Tl	190.801†	577.9	572.7	0.5393 mg/L	0.5393 mg/L	21:36:56
2	V	292.402†	128205.2	121998.0	0.5006 mg/L	0.5006 mg/L	21:36:36
2	Zn	213.857†	48544.8	46170.2	0.4920 mg/L	0.4920 mg/L	21:36:36

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2527841.8					
Ag 328.068†	83039.4	0.2473 mg/L	0.00183	0.2473 mg/L	12104.81	0.48%
QC value within limits for Ag 328.068 Recovery = 98.91%						
Al 237.313†	22217.8	2.456 mg/L	0.0267	2.456 mg/L	0.00183	0.74%
QC value within limits for Al 237.313 Recovery = 98.26%						
As 188.979†	591.9	0.4954 mg/L	0.00182	0.4954 mg/L	0.00182	0.37%
QC value within limits for As 188.979 Recovery = 99.09%						
B 182.528†	609.8	0.4919 mg/L	0.00205	0.4919 mg/L	0.00205	0.42%
QC value within limits for B 182.528 Recovery = 98.39%						
Ba 233.527†	89913.1	0.4936 mg/L	0.00367	0.4936 mg/L	0.00367	0.74%
QC value within limits for Ba 233.527 Recovery = 98.72%						
Be 313.107†	314378.4	0.0499 mg/L	0.00009	0.0499 mg/L	0.00009	0.17%
QC value within limits for Be 313.107 Recovery = 99.81%						
Ca 315.886†	744036.9	4.996 mg/L	0.0170	4.996 mg/L	0.0170	0.34%
QC value within limits for Ca 315.886 Recovery = 99.93%						
Cd 228.802†	20576.6	0.2452 mg/L	0.00208	0.2452 mg/L	0.00208	0.85%
QC value within limits for Cd 228.802 Recovery = 98.10%						

Co 228.616†	35376.1	0.4953 mg/L	0.00346	0.4953 mg/L	0.00346	0.70%
QC value within limits for Co 228.616 Recovery = 99.06%						
Cr 267.716†	74917.7	0.4949 mg/L	0.00398	0.4949 mg/L	0.00398	0.80%
QC value within limits for Cr 267.716 Recovery = 98.99%						
Cu 324.752†	88536.5	0.4908 mg/L	0.00648	0.4908 mg/L	0.00648	1.32%
QC value within limits for Cu 324.752 Recovery = 98.16%						
Fe 238.204†	312482.8	2.471 mg/L	0.0188	2.471 mg/L	0.0188	0.76%
QC value within limits for Fe 238.204 Recovery = 98.82%						
Fe 234.349†	101154.6	2.460 mg/L	0.0202	2.460 mg/L	0.0202	0.82%
QC value within limits for Fe 234.349 Recovery = 98.40%						
Mg 279.077†	108438.9	4.922 mg/L	0.0356	4.922 mg/L	0.0356	0.72%
QC value within limits for Mg 279.077 Recovery = 98.45%						
Mn 257.610†	502153.0	0.5017 mg/L	0.00101	0.5017 mg/L	0.00101	0.20%
QC value within limits for Mn 257.610 Recovery = 100.35%						
Mo 202.031†	6510.1	0.4966 mg/L	0.00389	0.4966 mg/L	0.00389	0.78%
QC value within limits for Mo 202.031 Recovery = 99.32%						
Na 330.237†	11040.6	23.77 mg/L	0.105	23.77 mg/L	0.105	0.44%
QC value within limits for Na 330.237 Recovery = 95.06%						
Ni 231.604†	28253.8	0.4947 mg/L	0.00297	0.4947 mg/L	0.00297	0.60%
QC value within limits for Ni 231.604 Recovery = 98.94%						
Pb 220.353†	4515.0	0.4977 mg/L	0.00372	0.4977 mg/L	0.00372	0.75%
QC value within limits for Pb 220.353 Recovery = 99.54%						
Sb 206.836†	1796.6	0.4873 mg/L	0.00588	0.4873 mg/L	0.00588	1.21%
QC value within limits for Sb 206.836 Recovery = 97.45%						
Se 196.026†	711.9	0.9943 mg/L	0.00685	0.9943 mg/L	0.00685	0.69%
QC value within limits for Se 196.026 Recovery = 99.43%						
Sn 189.927†	1563.9	0.4874 mg/L	0.00244	0.4874 mg/L	0.00244	0.50%
QC value within limits for Sn 189.927 Recovery = 97.47%						
Ti 337.279†	378502.1	0.5023 mg/L	0.00090	0.5023 mg/L	0.00090	0.18%
QC value within limits for Ti 337.279 Recovery = 100.46%						
Tl 190.801†	568.9	0.5359 mg/L	0.00479	0.5359 mg/L	0.00479	0.89%
QC value within limits for Tl 190.801 Recovery = 107.18%						
V 292.402†	121265.1	0.4976 mg/L	0.00426	0.4976 mg/L	0.00426	0.86%
QC value within limits for V 292.402 Recovery = 99.51%						
Zn 213.857†	45918.5	0.4894 mg/L	0.00380	0.4894 mg/L	0.00380	0.78%
QC value within limits for Zn 213.857 Recovery = 97.87%						

All analyte(s) passed QC.

Sequence No.: 82

Sample ID: ICCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 6/22/2006 9:38:33 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2489425.6	2489425.6			21:40:04
1	Ag 328.068†	-681.9	13.4	0.0003 mg/L	0.0003 mg/L	21:40:09
1	Al 237.313†	-306.8	16.5	0.0012 mg/L	0.0012 mg/L	21:40:30
1	As 188.979†	0.5	-0.4	-0.0011 mg/L	-0.0011 mg/L	21:40:30
1	B 182.528†	-27.6	6.5	0.0048 mg/L	0.0048 mg/L	21:40:30
1	Ba 233.527†	-128.2	29.1	-0.0012 mg/L	-0.0012 mg/L	21:40:30
1	Be 313.107†	5205.8	-16.3	-0.0001 mg/L	-0.0001 mg/L	21:40:09
1	Ca 315.886†	3879.6	719.6	-0.0107 mg/L	-0.0107 mg/L	21:40:09
1	Cd 228.802†	376.6	-21.8	0.0000 mg/L	0.0000 mg/L	21:40:30
1	Co 228.616†	-376.3	23.9	-0.0016 mg/L	-0.0016 mg/L	21:40:30
1	Cr 267.716†	1808.0	13.7	-0.0011 mg/L	-0.0011 mg/L	21:40:09
1	Cu 324.752†	1460.7	-21.3	-0.0003 mg/L	-0.0003 mg/L	21:40:09
1	Fe 238.204†	851.4	-146.0	-0.0085 mg/L	-0.0085 mg/L	21:40:30
1	Fe 234.349†	212.0	-16.0	-0.0053 mg/L	-0.0053 mg/L	21:40:30
1	Mg 279.077†	99.7	94.5	0.0020 mg/L	0.0020 mg/L	21:40:09
1	Mn 257.610†	1133.9	264.6	-0.0023 mg/L	-0.0023 mg/L	21:40:09
1	Mo 202.031†	28.6	20.1	-0.0001 mg/L	-0.0001 mg/L	21:40:30
1	Na 330.237†	1180.5	1.2	0.6586 mg/L	0.6586 mg/L	21:40:09
1	Ni 231.604†	382.9	14.4	-0.0017 mg/L	-0.0017 mg/L	21:40:30
1	Pb 220.353†	-117.4	5.6	-0.0010 mg/L	-0.0010 mg/L	21:40:30
1	Sb 206.836†	76.7	-4.5	-0.0009 mg/L	-0.0009 mg/L	21:40:30
1	Se 196.026†	-8.4	0.2	-0.0016 mg/L	-0.0016 mg/L	21:40:30

1	Sn 189.927†	45.5	-31.0	-0.0166 mg/L	-0.0166 mg/L	21:40:30
1	Ti 337.279†	1160.5	208.5	-0.0005 mg/L	-0.0005 mg/L	21:40:09
1	Tl 190.801†	-5.6	6.2	0.0223 mg/L	0.0223 mg/L	21:40:30
1	V 292.402†	2403.1	-99.1	-0.0008 mg/L	-0.0008 mg/L	21:40:09
1	Zn 213.857†	899.4	-72.1	-0.0014 mg/L	-0.0014 mg/L	21:40:30
2	Y 360.073	2472098.9	2472098.9			21:40:35
2	Ag 328.068†	-583.2	106.4	0.0005 mg/L	0.0005 mg/L	21:40:40
2	Al 237.313†	-278.1	42.8	0.0042 mg/L	0.0042 mg/L	21:41:01
2	As 188.979†	0.6	-0.3	-0.0010 mg/L	-0.0010 mg/L	21:41:01
2	B 182.528†	-27.8	6.2	0.0045 mg/L	0.0045 mg/L	21:41:01
2	Ba 233.527†	-144.9	11.7	-0.0013 mg/L	-0.0013 mg/L	21:41:01
2	Be 313.107†	5292.7	105.5	-0.0001 mg/L	-0.0001 mg/L	21:40:40
2	Ca 315.886†	3726.5	594.8	-0.0115 mg/L	-0.0115 mg/L	21:40:40
2	Cd 228.802†	397.4	1.5	0.0003 mg/L	0.0003 mg/L	21:41:01
2	Co 228.616†	-392.0	5.7	-0.0019 mg/L	-0.0019 mg/L	21:41:01
2	Cr 267.716†	1789.3	7.6	-0.0011 mg/L	-0.0011 mg/L	21:40:40
2	Cu 324.752†	1404.4	-66.9	-0.0006 mg/L	-0.0006 mg/L	21:40:40
2	Fe 238.204†	859.2	-132.5	-0.0084 mg/L	-0.0084 mg/L	21:41:01
2	Fe 234.349†	197.5	-28.9	-0.0056 mg/L	-0.0056 mg/L	21:41:01
2	Mg 279.077†	73.8	69.5	0.0009 mg/L	0.0009 mg/L	21:40:40
2	Mn 257.610†	1052.7	192.1	-0.0024 mg/L	-0.0024 mg/L	21:40:40
2	Mo 202.031†	34.1	25.7	0.0003 mg/L	0.0003 mg/L	21:41:01
2	Na 330.237†	1220.2	48.6	0.7578 mg/L	0.7578 mg/L	21:40:40
2	Ni 231.604†	362.6	-3.1	-0.0020 mg/L	-0.0020 mg/L	21:41:01
2	Pb 220.353†	-122.2	0.1	-0.0016 mg/L	-0.0016 mg/L	21:41:01
2	Sb 206.836†	73.3	-7.4	-0.0017 mg/L	-0.0017 mg/L	21:41:01
2	Se 196.026†	-1.2	7.2	0.0083 mg/L	0.0083 mg/L	21:41:01
2	Sn 189.927†	51.0	-25.2	-0.0148 mg/L	-0.0148 mg/L	21:41:01
2	Ti 337.279†	1135.5	191.8	-0.0005 mg/L	-0.0005 mg/L	21:40:40
2	Tl 190.801†	1.9	13.6	0.0290 mg/L	0.0290 mg/L	21:41:01
2	V 292.402†	2467.5	-18.8	-0.0004 mg/L	-0.0004 mg/L	21:40:40
2	Zn 213.857†	900.9	-64.4	-0.0013 mg/L	-0.0013 mg/L	21:41:01

## Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2480762.2						12251.77	0.49%
Ag 328.068†	59.9	0.0004 mg/L		0.00020	0.0004 mg/L		0.00020	50.09%
QC value within limits for Ag 328.068								Recovery = Not calculated
Al 237.313†	29.6	0.0027 mg/L		0.00208	0.0027 mg/L		0.00208	77.41%
QC value within limits for Al 237.313								Recovery = Not calculated
As 188.979†	-0.4	-0.0010 mg/L		0.00008	-0.0010 mg/L		0.00008	7.59%
QC value within limits for As 188.979								Recovery = Not calculated
B 182.528†	6.4	0.0046 mg/L		0.00021	0.0046 mg/L		0.00021	4.65%
QC value within limits for B 182.528								Recovery = Not calculated
Ba 233.527†	20.4	-0.0013 mg/L		0.00007	-0.0013 mg/L		0.00007	5.28%
QC value within limits for Ba 233.527								Recovery = Not calculated
Be 313.107†	44.6	-0.0001 mg/L		0.00001	-0.0001 mg/L		0.00001	12.89%
QC value within limits for Be 313.107								Recovery = Not calculated
Ca 315.886†	657.2	-0.0111 mg/L		0.00059	-0.0111 mg/L		0.00059	5.34%
QC value within limits for Ca 315.886								Recovery = Not calculated
Cd 228.802†	-10.2	0.0001 mg/L		0.00020	0.0001 mg/L		0.00020	171.14%
QC value within limits for Cd 228.802								Recovery = Not calculated
Co 228.616†	14.8	-0.0018 mg/L		0.00018	-0.0018 mg/L		0.00018	10.18%
QC value within limits for Co 228.616								Recovery = Not calculated
Cr 267.716†	10.6	-0.0011 mg/L		0.00003	-0.0011 mg/L		0.00003	2.56%
QC value within limits for Cr 267.716								Recovery = Not calculated
Cu 324.752†	-44.1	-0.0004 mg/L		0.00018	-0.0004 mg/L		0.00018	42.00%
QC value within limits for Cu 324.752								Recovery = Not calculated
Fe 238.204†	-139.3	-0.0085 mg/L		0.00008	-0.0085 mg/L		0.00008	0.90%
QC value within limits for Fe 238.204								Recovery = Not calculated
Fe 234.349†	-22.5	-0.0054 mg/L		0.00022	-0.0054 mg/L		0.00022	4.07%
QC value within limits for Fe 234.349								Recovery = Not calculated
Mg 279.077†	82.0	0.0014 mg/L		0.00080	0.0014 mg/L		0.00080	56.64%
QC value within limits for Mg 279.077								Recovery = Not calculated
Mn 257.610†	228.3	-0.0024 mg/L		0.00005	-0.0024 mg/L		0.00005	2.17%
QC value within limits for Mn 257.610								Recovery = Not calculated
Mo 202.031†	22.9	0.0001 mg/L		0.00030	0.0001 mg/L		0.00030	391.79%
QC value within limits for Mo 202.031								Recovery = Not calculated
Na 330.237†	24.9	0.7082 mg/L		0.07014	0.7082 mg/L		0.07014	9.90%

Ni	231.604†	5.7	-0.0019 mg/L	0.00022	-0.0019 mg/L	0.00022	11.59%
QC value within limits for Na 330.237 Recovery = Not calculated							
Pb	220.353†	2.8	-0.0013 mg/L	0.00043	-0.0013 mg/L	0.00043	31.91%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Sb	206.836†	-6.0	-0.0013 mg/L	0.00056	-0.0013 mg/L	0.00056	41.82%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Se	196.026†	3.7	0.0033 mg/L	0.00698	0.0033 mg/L	0.00698	209.34%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Sn	189.927†	-28.1	-0.0157 mg/L	0.00128	-0.0157 mg/L	0.00128	8.14%
QC value within limits for Se 196.026 Recovery = Not calculated							
Ti	337.279†	200.2	-0.0005 mg/L	0.00002	-0.0005 mg/L	0.00002	2.98%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Tl	190.801†	9.9	0.0256 mg/L	0.00477	0.0256 mg/L	0.00477	18.61%
QC value within limits for Ti 337.279 Recovery = Not calculated							
V	292.402†	-58.9	-0.0006 mg/L	0.00023	-0.0006 mg/L	0.00023	39.08%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated							
Zn	213.857†	-68.3	-0.0014 mg/L	0.00006	-0.0014 mg/L	0.00006	4.31%
QC value within limits for V 292.402 Recovery = Not calculated							
QC value within limits for Zn 213.857 Recovery = Not calculated							
QC Failed. Continue with analysis.							

Sequence No.: 83  
 Sample ID: BF62207-PDS2  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 69  
 Date Collected: 6/22/2006 9:42:37 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: BF62207-PDS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2519460.6	2519460.6			21:44:10
1	Ag 328.068†	84628.2	82832.1	0.2466 mg/L	0.2466 mg/L	21:44:16
1	Al 237.313†	22293.8	21958.5	2.422 mg/L	2.422 mg/L	21:44:16
1	As 188.979†	606.5	587.8	0.4920 mg/L	0.4920 mg/L	21:44:36
1	B 182.528†	642.2	657.0	0.5301 mg/L	0.5301 mg/L	21:44:36
1	Ba 233.527†	94036.2	91436.2	0.5020 mg/L	0.5020 mg/L	21:44:16
1	Be 313.107†	332887.5	318004.0	0.0505 mg/L	0.0505 mg/L	21:44:10
1	Ca 315.886†	4367637.8	4236583.1	28.52 mg/L	28.52 mg/L	21:44:10
1	Cd 228.802†	21402.0	20383.3	0.2429 mg/L	0.2429 mg/L	21:44:16
1	Co 228.616†	34911.4	34282.1	0.4799 mg/L	0.4799 mg/L	21:44:16
1	Cr 267.716†	78244.3	74189.4	0.4900 mg/L	0.4900 mg/L	21:44:16
1	Cu 324.752†	93244.9	89056.7	0.4937 mg/L	0.4937 mg/L	21:44:16
1	Fe 238.204†	334153.2	323380.7	2.557 mg/L	2.557 mg/L	21:44:16
1	Fe 234.349†	108719.8	105310.2	2.561 mg/L	2.561 mg/L	21:44:16
1	Mg 279.077†	200151.1	194283.7	8.825 mg/L	8.825 mg/L	21:44:16
1	Mn 257.610†	788119.7	764180.1	0.7649 mg/L	0.7649 mg/L	21:44:10
1	Mo 202.031†	6679.3	6475.6	0.4939 mg/L	0.4939 mg/L	21:44:36
1	Na 330.237†	32746.3	30628.4	64.77 mg/L	64.77 mg/L	21:44:16
1	Ni 231.604†	29141.9	27926.3	0.4890 mg/L	0.4890 mg/L	21:44:16
1	Pb 220.353†	4389.4	4381.7	0.4830 mg/L	0.4830 mg/L	21:44:36
1	Sb 206.836†	1902.9	1767.3	0.4793 mg/L	0.4793 mg/L	21:44:36
1	Se 196.026†	717.6	705.0	0.9848 mg/L	0.9848 mg/L	21:44:36
1	Sn 189.927†	1763.1	1635.8	0.5100 mg/L	0.5100 mg/L	21:44:36
1	Ti 337.279†	389375.0	377035.6	0.5003 mg/L	0.5003 mg/L	21:44:10
1	Tl 190.801†	563.1	558.2	0.5301 mg/L	0.5301 mg/L	21:44:36
1	V 292.402†	125607.6	119467.6	0.4902 mg/L	0.4902 mg/L	21:44:16
1	Zn 213.857†	49160.4	46764.4	0.4985 mg/L	0.4985 mg/L	21:44:16
2	Y 360.073	2501310.3	2501310.3			21:44:43
2	Ag 328.068†	84628.6	83428.6	0.2484 mg/L	0.2484 mg/L	21:44:48
2	Al 237.313†	22183.7	22007.9	2.428 mg/L	2.428 mg/L	21:44:48
2	As 188.979†	603.0	588.6	0.4926 mg/L	0.4926 mg/L	21:45:08
2	B 182.528†	656.8	675.8	0.5453 mg/L	0.5453 mg/L	21:45:08
2	Ba 233.527†	93835.7	91902.5	0.5046 mg/L	0.5046 mg/L	21:44:48
2	Be 313.107†	331273.6	318770.8	0.0506 mg/L	0.0506 mg/L	21:44:43
2	Ca 315.886†	4346547.3	4246726.3	28.59 mg/L	28.59 mg/L	21:44:43
2	Cd 228.802†	21335.5	20468.9	0.2440 mg/L	0.2440 mg/L	21:44:48
2	Co 228.616†	34833.2	34451.5	0.4823 mg/L	0.4823 mg/L	21:44:48
2	Cr 267.716†	78117.4	74616.4	0.4929 mg/L	0.4929 mg/L	21:44:48
2	Cu 324.752†	93604.7	90065.3	0.4993 mg/L	0.4993 mg/L	21:44:48



2	Fe 238.204†	333250.9	324852.2	2.569 mg/L	2.569 mg/L	21:44:48
2	Fe 234.349†	108499.0	105860.2	2.575 mg/L	2.575 mg/L	21:44:48
2	Mg 279.077†	199335.9	194896.4	8.852 mg/L	8.852 mg/L	21:44:48
2	Mn 257.610†	784683.6	766371.7	0.7671 mg/L	0.7671 mg/L	21:44:43
2	Mo 202.031†	6650.9	6494.9	0.4954 mg/L	0.4954 mg/L	21:45:08
2	Na 330.237†	32733.3	30846.3	65.23 mg/L	65.23 mg/L	21:44:48
2	Ni 231.604†	28988.5	27981.6	0.4899 mg/L	0.4899 mg/L	21:44:48
2	Pb 220.353†	4373.4	4397.0	0.4847 mg/L	0.4847 mg/L	21:45:08
2	Sb 206.836†	1899.5	1777.3	0.4820 mg/L	0.4820 mg/L	21:45:08
2	Se 196.026†	715.3	707.8	0.9887 mg/L	0.9887 mg/L	21:45:08
2	Sn 189.927†	1751.2	1636.6	0.5103 mg/L	0.5103 mg/L	21:45:08
2	Ti 337.279†	386600.7	377065.6	0.5004 mg/L	0.5004 mg/L	21:44:43
2	Tl 190.801†	572.3	571.2	0.5419 mg/L	0.5419 mg/L	21:45:08
2	V 292.402†	125366.4	120116.5	0.4929 mg/L	0.4929 mg/L	21:44:48
2	Zn 213.857†	49078.1	47030.2	0.5013 mg/L	0.5013 mg/L	21:44:48

## Mean Data: BF62207-PDS2

Analyte	Mean Corrected		Calib		Sample		RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	
Y 360.073	2510385.5						12834.17 0.51%
Ag 328.068†	83130.3	0.2475	mg/L	0.00125	0.2475	mg/L	0.00125 0.51%
Al 237.313†	21983.2	2.425	mg/L	0.0038	2.425	mg/L	0.0038 0.16%
As 188.979†	588.2	0.4923	mg/L	0.00047	0.4923	mg/L	0.00047 0.10%
B 182.528†	666.4	0.5377	mg/L	0.01076	0.5377	mg/L	0.01076 2.00%
Ba 233.527†	91669.3	0.5033	mg/L	0.00182	0.5033	mg/L	0.00182 0.36%
Be 313.107†	318387.4	0.0505	mg/L	0.00009	0.0505	mg/L	0.00009 0.17%
Ca 315.886†	4241654.7	28.55	mg/L	0.048	28.55	mg/L	0.048 0.17%
Cd 228.802†	20426.1	0.2435	mg/L	0.00072	0.2435	mg/L	0.00072 0.30%
Co 228.616†	34366.8	0.4811	mg/L	0.00169	0.4811	mg/L	0.00169 0.35%
Cr 267.716†	74402.9	0.4915	mg/L	0.00200	0.4915	mg/L	0.00200 0.41%
Cu 324.752†	89561.0	0.4965	mg/L	0.00395	0.4965	mg/L	0.00395 0.80%
Fe 238.204†	324116.5	2.563	mg/L	0.0083	2.563	mg/L	0.0083 0.32%
Fe 234.349†	105585.2	2.568	mg/L	0.0095	2.568	mg/L	0.0095 0.37%
Mg 279.077†	194590.0	8.838	mg/L	0.0197	8.838	mg/L	0.0197 0.22%
Mn 257.610†	765275.9	0.7660	mg/L	0.00156	0.7660	mg/L	0.00156 0.20%
Mo 202.031†	6485.3	0.4947	mg/L	0.00104	0.4947	mg/L	0.00104 0.21%
Na 330.237†	30737.4	65.00	mg/L	0.323	65.00	mg/L	0.323 0.50%
Ni 231.604†	27954.0	0.4894	mg/L	0.00069	0.4894	mg/L	0.00069 0.14%
Pb 220.353†	4389.3	0.4839	mg/L	0.00119	0.4839	mg/L	0.00119 0.25%
Sb 206.836†	1772.3	0.4806	mg/L	0.00193	0.4806	mg/L	0.00193 0.40%
Se 196.026†	706.4	0.9867	mg/L	0.00278	0.9867	mg/L	0.00278 0.28%
Sn 189.927†	1636.2	0.5101	mg/L	0.00017	0.5101	mg/L	0.00017 0.03%
Ti 337.279†	377050.6	0.5004	mg/L	0.00003	0.5004	mg/L	0.00003 0.01%
Tl 190.801†	564.7	0.5360	mg/L	0.00837	0.5360	mg/L	0.00837 1.56%
V 292.402†	119792.1	0.4915	mg/L	0.00189	0.4915	mg/L	0.00189 0.38%
Zn 213.857†	46897.3	0.4999	mg/L	0.00201	0.4999	mg/L	0.00201 0.40%

## Matrix Recovery Check: BF62207-PDS2

Analyte	Expected	Measured	Std. Dev.	Units	Recovery (%)
	Conc.	Conc.			
Ag 328.068	0.2506	0.2475	0.001	mg/L	98.8
Al 237.313	2.501	2.425	0.004	mg/L	97.0
As 188.979	0.4999	0.4923	0.000	mg/L	98.5
B 182.528	0.5493	0.5377	0.011	mg/L	97.7
Ba 233.527	0.5245	0.5033	0.002	mg/L	95.7
Be 313.107	0.0499	0.0505	0.000	mg/L	101.4
Ca 315.886	28.78	28.55	0.048	mg/L	95.4
Cd 228.802	0.2503	0.2435	0.001	mg/L	97.3
Co 228.616	0.4989	0.4811	0.002	mg/L	96.4
Cr 267.716	0.4983	0.4915	0.002	mg/L	98.6
Cu 324.752	0.5005	0.4965	0.004	mg/L	99.2
Fe 238.204	2.599	2.563	0.008	mg/L	98.6
Fe 234.349	2.612	2.568	0.009	mg/L	98.2
Mg 279.077	9.142	8.838	0.020	mg/L	93.9
Mn 257.610	0.7746	0.7660	0.002	mg/L	98.3
Mo 202.031	0.4985	0.4947	0.001	mg/L	99.2
Na 330.237	64.17	65.00	0.323	mg/L	103.3
Ni 231.604	0.4995	0.4894	0.001	mg/L	98.0
Pb 220.353	0.5016	0.4839	0.001	mg/L	96.5

Sb 206.836	0.4986	0.4806	0.002	mg/L	96.4
Se 196.026	1.009	0.9867	0.003	mg/L	97.8
Sn 189.927	0.5080	0.5101	0.000	mg/L	100.4
Ti 337.279	0.4994	0.5004	0.000	mg/L	100.2
Tl 190.801	0.5257	0.5360	0.008	mg/L	102.1
V 292.402	0.4998	0.4915	0.002	mg/L	98.3
Zn 213.857	0.5159	0.4999	0.002	mg/L	96.8

Sequence No.: 84  
 Sample ID: 060622FILTBK  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 70  
 Date Collected: 6/22/2006 9:46:46 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: 060622FILTBK

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2528485.7	2528485.7			21:48:17
1	Ag 328.068†	-485.8	213.5	0.0008 mg/L	0.0008 mg/L	21:48:23
1	Al 237.313†	-285.4	41.9	0.0040 mg/L	0.0040 mg/L	21:48:43
1	As 188.979†	-0.2	-1.1	-0.0017 mg/L	-0.0017 mg/L	21:48:43
1	B 182.528†	-20.8	13.5	0.0104 mg/L	0.0104 mg/L	21:48:43
1	Ba 233.527†	-107.0	51.6	-0.0011 mg/L	-0.0011 mg/L	21:48:43
1	Be 313.107†	5189.8	-110.8	-0.0001 mg/L	-0.0001 mg/L	21:48:23
1	Ca 315.886†	9519.5	6115.8	0.0257 mg/L	0.0257 mg/L	21:48:23
1	Cd 228.802†	400.5	-4.3	0.0002 mg/L	0.0002 mg/L	21:48:43
1	Co 228.616†	-382.4	23.6	-0.0017 mg/L	-0.0017 mg/L	21:48:43
1	Cr 267.716†	1862.3	38.7	-0.0009 mg/L	-0.0009 mg/L	21:48:23
1	Cu 324.752†	1714.8	202.4	0.0009 mg/L	0.0009 mg/L	21:48:23
1	Fe 238.204†	1354.3	327.4	-0.0048 mg/L	-0.0048 mg/L	21:48:43
1	Fe 234.349†	362.1	126.0	-0.0018 mg/L	-0.0018 mg/L	21:48:43
1	Mg 279.077†	85.8	79.5	0.0013 mg/L	0.0013 mg/L	21:48:23
1	Mn 257.610†	1716.7	811.1	-0.0018 mg/L	-0.0018 mg/L	21:48:23
1	Mo 202.031†	36.2	27.1	0.0004 mg/L	0.0004 mg/L	21:48:43
1	Na 330.237†	1241.2	42.0	0.7435 mg/L	0.7435 mg/L	21:48:23
1	Ni 231.604†	380.9	6.7	-0.0019 mg/L	-0.0019 mg/L	21:48:43
1	Pb 220.353†	-100.8	23.4	0.0009 mg/L	0.0009 mg/L	21:48:43
1	Sb 206.836†	87.3	4.6	0.0016 mg/L	0.0016 mg/L	21:48:43
1	Se 196.026†	-6.5	2.2	0.0012 mg/L	0.0012 mg/L	21:48:43
1	Sn 189.927†	44.6	-32.6	-0.0171 mg/L	-0.0171 mg/L	21:48:43
1	Ti 337.279†	1727.3	739.2	0.0002 mg/L	0.0002 mg/L	21:48:23
1	Tl 190.801†	-0.8	10.9	0.0266 mg/L	0.0266 mg/L	21:48:43
1	V 292.402†	2417.4	-121.7	-0.0008 mg/L	-0.0008 mg/L	21:48:23
1	Zn 213.857†	1591.4	583.5	0.0056 mg/L	0.0056 mg/L	21:48:43
2	Y 360.073	2501803.4	2501803.4			21:48:48
2	Ag 328.068†	-605.4	91.5	0.0005 mg/L	0.0005 mg/L	21:48:54
2	Al 237.313†	-266.7	57.2	0.0057 mg/L	0.0057 mg/L	21:49:14
2	As 188.979†	3.2	2.2	0.0011 mg/L	0.0011 mg/L	21:49:14
2	B 182.528†	-20.8	13.3	0.0103 mg/L	0.0103 mg/L	21:49:14
2	Ba 233.527†	-83.7	73.3	-0.0010 mg/L	-0.0010 mg/L	21:49:14
2	Be 313.107†	5283.3	34.0	-0.0001 mg/L	-0.0001 mg/L	21:48:54
2	Ca 315.886†	9336.8	6035.4	0.0251 mg/L	0.0251 mg/L	21:48:54
2	Cd 228.802†	396.7	-4.0	0.0002 mg/L	0.0002 mg/L	21:49:14
2	Co 228.616†	-386.5	15.7	-0.0018 mg/L	-0.0018 mg/L	21:49:14
2	Cr 267.716†	1875.2	70.5	-0.0007 mg/L	-0.0007 mg/L	21:48:54
2	Cu 324.752†	1681.4	187.4	0.0009 mg/L	0.0009 mg/L	21:48:54
2	Fe 238.204†	1269.4	258.4	-0.0053 mg/L	-0.0053 mg/L	21:49:14
2	Fe 234.349†	350.3	118.2	-0.0020 mg/L	-0.0020 mg/L	21:49:14
2	Mg 279.077†	100.8	95.1	0.0020 mg/L	0.0020 mg/L	21:48:54
2	Mn 257.610†	1698.7	811.2	-0.0018 mg/L	-0.0018 mg/L	21:48:54
2	Mo 202.031†	30.5	21.8	0.0000 mg/L	0.0000 mg/L	21:49:14
2	Na 330.237†	1187.3	2.1	0.6600 mg/L	0.6600 mg/L	21:48:54
2	Ni 231.604†	390.9	20.3	-0.0016 mg/L	-0.0016 mg/L	21:49:14
2	Pb 220.353†	-107.5	15.8	0.0001 mg/L	0.0001 mg/L	21:49:14
2	Sb 206.836†	82.2	0.5	0.0004 mg/L	0.0004 mg/L	21:49:14
2	Se 196.026†	-2.1	6.4	0.0071 mg/L	0.0071 mg/L	21:49:14
2	Sn 189.927†	44.6	-32.0	-0.0170 mg/L	-0.0170 mg/L	21:49:14
2	Ti 337.279†	1593.5	626.2	0.0000 mg/L	0.0000 mg/L	21:48:54
2	Tl 190.801†	5.4	17.0	0.0321 mg/L	0.0321 mg/L	21:49:14

1	V 292.402†	128357.4	121901.6	0.5002 mg/L	0.5002 mg/L	21:52:30
1	Zn 213.857†	48657.0	46186.5	0.4922 mg/L	0.4922 mg/L	21:52:30
2	Y 360.073	2523513.6	2523513.6			21:52:57
2	Ag 328.068†	84838.4	82903.8	0.2469 mg/L	0.2469 mg/L	21:53:03
2	Al 237.313†	22526.5	22149.3	2.449 mg/L	2.449 mg/L	21:53:03
2	As 188.979†	608.4	588.7	0.4927 mg/L	0.4927 mg/L	21:53:23
2	B 182.528†	601.7	616.8	0.4975 mg/L	0.4975 mg/L	21:53:23
2	Ba 233.527†	92479.5	89781.0	0.4929 mg/L	0.4929 mg/L	21:53:03
2	Be 313.107†	328081.9	312827.6	0.0497 mg/L	0.0497 mg/L	21:52:57
2	Ca 315.886†	766911.5	740155.0	4.970 mg/L	4.970 mg/L	21:52:57
2	Cd 228.802†	21662.2	20602.1	0.2456 mg/L	0.2456 mg/L	21:53:03
2	Co 228.616†	36027.2	35309.1	0.4943 mg/L	0.4943 mg/L	21:53:03
2	Cr 267.716†	78962.0	74763.0	0.4939 mg/L	0.4939 mg/L	21:53:03
2	Cu 324.752†	93164.5	88833.4	0.4924 mg/L	0.4924 mg/L	21:53:03
2	Fe 238.204†	322989.8	312040.8	2.467 mg/L	2.467 mg/L	21:53:03
2	Fe 234.349†	104531.0	101081.2	2.458 mg/L	2.458 mg/L	21:53:03
2	Mg 279.077†	111638.4	108190.2	4.911 mg/L	4.911 mg/L	21:53:03
2	Mn 257.610†	516064.8	499291.2	0.4989 mg/L	0.4989 mg/L	21:52:57
2	Mo 202.031†	6745.3	6529.2	0.4980 mg/L	0.4980 mg/L	21:53:23
2	Na 330.237†	12558.8	11012.8	23.71 mg/L	23.71 mg/L	21:53:03
2	Ni 231.604†	29467.5	28196.4	0.4937 mg/L	0.4937 mg/L	21:53:03
2	Pb 220.353†	4542.1	4522.8	0.4986 mg/L	0.4986 mg/L	21:53:23
2	Sb 206.836†	1942.1	1802.3	0.4888 mg/L	0.4888 mg/L	21:53:23
2	Se 196.026†	725.5	711.6	0.9939 mg/L	0.9939 mg/L	21:53:23
2	Sn 189.927†	1676.7	1549.3	0.4827 mg/L	0.4827 mg/L	21:53:23
2	Ti 337.279†	388813.6	375884.5	0.4988 mg/L	0.4988 mg/L	21:52:57
2	Tl 190.801†	592.1	585.5	0.5510 mg/L	0.5510 mg/L	21:53:23
2	V 292.402†	127465.8	121072.7	0.4968 mg/L	0.4968 mg/L	21:53:03
2	Zn 213.857†	48360.1	45912.2	0.4893 mg/L	0.4893 mg/L	21:53:03

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2523870.8				505.10	0.02%
Ag 328.068†	83185.0	0.2477 mg/L	0.00118	0.2477 mg/L	0.00118	0.48%
QC value within limits for Ag 328.068		Recovery = 99.08%				
Al 237.313†	22193.1	2.454 mg/L	0.0068	2.454 mg/L	0.0068	0.28%
QC value within limits for Al 237.313		Recovery = 98.15%				
As 188.979†	591.0	0.4946 mg/L	0.00268	0.4946 mg/L	0.00268	0.54%
QC value within limits for As 188.979		Recovery = 98.93%				
B 182.528†	611.2	0.4931 mg/L	0.00633	0.4931 mg/L	0.00633	1.28%
QC value within limits for B 182.528		Recovery = 98.61%				
Ba 233.527†	90081.5	0.4945 mg/L	0.00234	0.4945 mg/L	0.00234	0.47%
QC value within limits for Ba 233.527		Recovery = 98.90%				
Be 313.107†	312886.3	0.0497 mg/L	0.00001	0.0497 mg/L	0.00001	0.03%
QC value within limits for Be 313.107		Recovery = 99.34%				
Ca 315.886†	740539.1	4.973 mg/L	0.0037	4.973 mg/L	0.0037	0.07%
QC value within limits for Ca 315.886		Recovery = 99.46%				
Cd 228.802†	20639.8	0.2460 mg/L	0.00063	0.2460 mg/L	0.00063	0.26%
QC value within limits for Cd 228.802		Recovery = 98.40%				
Co 228.616†	35373.4	0.4952 mg/L	0.00128	0.4952 mg/L	0.00128	0.26%
QC value within limits for Co 228.616		Recovery = 99.05%				
Cr 267.716†	75001.3	0.4955 mg/L	0.00223	0.4955 mg/L	0.00223	0.45%
QC value within limits for Cr 267.716		Recovery = 99.10%				
Cu 324.752†	89382.4	0.4955 mg/L	0.00430	0.4955 mg/L	0.00430	0.87%
QC value within limits for Cu 324.752		Recovery = 99.10%				
Fe 238.204†	313045.2	2.475 mg/L	0.0113	2.475 mg/L	0.0113	0.46%
QC value within limits for Fe 238.204		Recovery = 99.00%				
Fe 234.349†	101346.8	2.465 mg/L	0.0091	2.465 mg/L	0.0091	0.37%
QC value within limits for Fe 234.349		Recovery = 98.58%				
Mg 279.077†	108438.8	4.922 mg/L	0.0160	4.922 mg/L	0.0160	0.32%
QC value within limits for Mg 279.077		Recovery = 98.45%				
Mn 257.610†	499538.8	0.4991 mg/L	0.00035	0.4991 mg/L	0.00035	0.07%
QC value within limits for Mn 257.610		Recovery = 99.82%				
Mo 202.031†	6539.6	0.4988 mg/L	0.00113	0.4988 mg/L	0.00113	0.23%
QC value within limits for Mo 202.031		Recovery = 99.77%				
Na 330.237†	11003.4	23.69 mg/L	0.028	23.69 mg/L	0.028	0.12%
QC value within limits for Na 330.237		Recovery = 94.75%				
Ni 231.604†	28294.7	0.4954 mg/L	0.00244	0.4954 mg/L	0.00244	0.49%
QC value within limits for Ni 231.604		Recovery = 99.09%				

Pb 220.353†	4514.7	0.4977 mg/L	0.00126	0.4977 mg/L	0.00126	0.25%
QC value within limits for Pb 220.353 Recovery = 99.53%						
Sb 206.836†	1803.1	0.4890 mg/L	0.00028	0.4890 mg/L	0.00028	0.06%
QC value within limits for Sb 206.836 Recovery = 97.81%						
Se 196.026†	713.8	0.9970 mg/L	0.00433	0.9970 mg/L	0.00433	0.43%
QC value within limits for Se 196.026 Recovery = 99.70%						
Sn 189.927†	1555.1	0.4846 mg/L	0.00257	0.4846 mg/L	0.00257	0.53%
QC value within limits for Sn 189.927 Recovery = 96.91%						
Ti 337.279†	375740.6	0.4986 mg/L	0.00027	0.4986 mg/L	0.00027	0.05%
QC value within limits for Ti 337.279 Recovery = 99.72%						
Tl 190.801†	577.6	0.5437 mg/L	0.01022	0.5437 mg/L	0.01022	1.88%
QC value within limits for Tl 190.801 Recovery = 108.74%						
V 292.402†	121487.2	0.4985 mg/L	0.00241	0.4985 mg/L	0.00241	0.48%
QC value within limits for V 292.402 Recovery = 99.70%						
Zn 213.857†	46049.4	0.4907 mg/L	0.00206	0.4907 mg/L	0.00206	0.42%
QC value within limits for Zn 213.857 Recovery = 98.15%						

All analyte(s) passed QC.

Sequence No.: 86

Sample ID: ICCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 6/22/2006 9:55:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2498363.7	2498363.7					21:56:31
1	Ag 328.068†	-610.2	86.0	0.0005	mg/L	0.0005	mg/L	21:56:36
1	Al 237.313†	-323.4	1.3	-0.0005	mg/L	-0.0005	mg/L	21:56:57
1	As 188.979†	1.8	0.8	0.0000	mg/L	0.0000	mg/L	21:56:57
1	B 182.528†	-32.6	1.7	0.0009	mg/L	0.0009	mg/L	21:56:57
1	Ba 233.527†	-122.6	35.1	-0.0012	mg/L	-0.0012	mg/L	21:56:57
1	Be 313.107†	5317.7	74.9	-0.0001	mg/L	-0.0001	mg/L	21:56:36
1	Ca 315.886†	3494.3	328.7	-0.0133	mg/L	-0.0133	mg/L	21:56:36
1	Cd 228.802†	396.8	-3.3	0.0002	mg/L	0.0002	mg/L	21:56:57
1	Co 228.616†	-379.3	22.2	-0.0017	mg/L	-0.0017	mg/L	21:56:57
1	Cr 267.716†	1814.8	13.9	-0.0011	mg/L	-0.0011	mg/L	21:56:36
1	Cu 324.752†	1424.0	-62.3	-0.0005	mg/L	-0.0005	mg/L	21:56:36
1	Fe 238.204†	908.2	-93.5	-0.0081	mg/L	-0.0081	mg/L	21:56:57
1	Fe 234.349†	214.3	-14.5	-0.0052	mg/L	-0.0052	mg/L	21:56:57
1	Mg 279.077†	34.1	29.9	-0.0010	mg/L	-0.0010	mg/L	21:56:36
1	Mn 257.610†	1114.1	241.2	-0.0024	mg/L	-0.0024	mg/L	21:56:36
1	Mo 202.031†	32.5	23.9	0.0002	mg/L	0.0002	mg/L	21:56:57
1	Na 330.237†	1157.9	-25.1	0.6035	mg/L	0.6035	mg/L	21:56:36
1	Ni 231.604†	372.9	3.3	-0.0019	mg/L	-0.0019	mg/L	21:56:57
1	Pb 220.353†	-116.5	6.8	-0.0009	mg/L	-0.0009	mg/L	21:56:57
1	Sb 206.836†	86.2	4.5	0.0015	mg/L	0.0015	mg/L	21:56:57
1	Se 196.026†	-3.6	4.9	0.0050	mg/L	0.0050	mg/L	21:56:57
1	Sn 189.927†	50.9	-25.9	-0.0150	mg/L	-0.0150	mg/L	21:56:57
1	Ti 337.279†	1110.8	155.8	-0.0006	mg/L	-0.0006	mg/L	21:56:36
1	Tl 190.801†	2.0	13.6	0.0290	mg/L	0.0290	mg/L	21:56:57
1	V 292.402†	2395.3	-115.1	-0.0008	mg/L	-0.0008	mg/L	21:56:36
1	Zn 213.857†	909.9	-65.0	-0.0013	mg/L	-0.0013	mg/L	21:56:57
2	Y 360.073	2494438.1	2494438.1					21:57:02
2	Ag 328.068†	-614.7	80.7	0.0005	mg/L	0.0005	mg/L	21:57:07
2	Al 237.313†	-295.3	28.3	0.0025	mg/L	0.0025	mg/L	21:57:28
2	As 188.979†	1.6	0.7	-0.0002	mg/L	-0.0002	mg/L	21:57:28
2	B 182.528†	-25.9	8.2	0.0061	mg/L	0.0061	mg/L	21:57:28
2	Ba 233.527†	-130.6	27.0	-0.0013	mg/L	-0.0013	mg/L	21:57:28
2	Be 313.107†	5335.5	100.5	-0.0001	mg/L	-0.0001	mg/L	21:57:07
2	Ca 315.886†	3465.0	305.4	-0.0135	mg/L	-0.0135	mg/L	21:57:07
2	Cd 228.802†	389.2	-10.2	0.0001	mg/L	0.0001	mg/L	21:57:28
2	Co 228.616†	-381.1	19.9	-0.0017	mg/L	-0.0017	mg/L	21:57:28
2	Cr 267.716†	1822.7	24.5	-0.0010	mg/L	-0.0010	mg/L	21:57:07
2	Cu 324.752†	1415.5	-68.5	-0.0006	mg/L	-0.0006	mg/L	21:57:07
2	Fe 238.204†	884.8	-115.0	-0.0083	mg/L	-0.0083	mg/L	21:57:28
2	Fe 234.349†	228.6	-0.1	-0.0049	mg/L	-0.0049	mg/L	21:57:28
2	Mg 279.077†	56.3	51.8	0.0000	mg/L	0.0000	mg/L	21:57:07

2	Mn 257.610†	1077.9	207.4	-0.0024 mg/L	-0.0024 mg/L	21:57:07
2	Mo 202.031†	24.2	15.7	-0.0005 mg/L	-0.0005 mg/L	21:57:28
2	Na 330.237†	1147.2	-33.8	0.5854 mg/L	0.5854 mg/L	21:57:07
2	Ni 231.604†	365.4	-3.5	-0.0020 mg/L	-0.0020 mg/L	21:57:28
2	Pb 220.353†	-122.6	0.7	-0.0016 mg/L	-0.0016 mg/L	21:57:28
2	Sb 206.836†	85.0	3.4	0.0012 mg/L	0.0012 mg/L	21:57:28
2	Se 196.026†	-4.1	4.4	0.0044 mg/L	0.0044 mg/L	21:57:28
2	Sn 189.927†	38.9	-37.5	-0.0187 mg/L	-0.0187 mg/L	21:57:28
2	Ti 337.279†	1174.7	220.2	-0.0005 mg/L	-0.0005 mg/L	21:57:07
2	Tl 190.801†	5.9	17.4	0.0326 mg/L	0.0326 mg/L	21:57:28
2	V 292.402†	2388.2	-118.4	-0.0008 mg/L	-0.0008 mg/L	21:57:07
2	Zn 213.857†	913.7	-59.9	-0.0013 mg/L	-0.0013 mg/L	21:57:28

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Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2496400.9				2775.82	0.11%
Ag 328.068†	83.3	0.0005 mg/L	0.00001	0.0005 mg/L	0.00001	2.42%
QC value within limits for Ag 328.068						Recovery = Not calculated
Al 237.313†	14.8	0.0010 mg/L	0.00213	0.0010 mg/L	0.00213	205.18%
QC value within limits for Al 237.313						Recovery = Not calculated
As 188.979†	0.8	-0.0001 mg/L	0.00011	-0.0001 mg/L	0.00011	150.45%
QC value within limits for As 188.979						Recovery = Not calculated
B 182.528†	5.0	0.0035 mg/L	0.00371	0.0035 mg/L	0.00371	106.55%
QC value within limits for B 182.528						Recovery = Not calculated
Ba 233.527†	31.0	-0.0012 mg/L	0.00003	-0.0012 mg/L	0.00003	2.55%
QC value within limits for Ba 233.527						Recovery = Not calculated
Be 313.107†	87.7	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	2.91%
QC value within limits for Be 313.107						Recovery = Not calculated
Ca 315.886†	317.1	-0.0134 mg/L	0.00011	-0.0134 mg/L	0.00011	0.83%
QC value within limits for Ca 315.886						Recovery = Not calculated
Cd 228.802†	-6.7	0.0002 mg/L	0.00006	0.0002 mg/L	0.00006	37.78%
QC value within limits for Cd 228.802						Recovery = Not calculated
Co 228.616†	21.0	-0.0017 mg/L	0.00002	-0.0017 mg/L	0.00002	1.37%
QC value within limits for Co 228.616						Recovery = Not calculated
Cr 267.716†	19.2	-0.0011 mg/L	0.00005	-0.0011 mg/L	0.00005	4.68%
QC value within limits for Cr 267.716						Recovery = Not calculated
Cu 324.752†	-65.4	-0.0005 mg/L	0.00002	-0.0005 mg/L	0.00002	4.42%
QC value within limits for Cu 324.752						Recovery = Not calculated
Fe 238.204†	-104.2	-0.0082 mg/L	0.00012	-0.0082 mg/L	0.00012	1.47%
QC value within limits for Fe 238.204						Recovery = Not calculated
Fe 234.349†	-7.3	-0.0051 mg/L	0.00025	-0.0051 mg/L	0.00025	4.91%
QC value within limits for Fe 234.349						Recovery = Not calculated
Mg 279.077†	40.8	-0.0005 mg/L	0.00070	-0.0005 mg/L	0.00070	154.23%
QC value within limits for Mg 279.077						Recovery = Not calculated
Mn 257.610†	224.3	-0.0024 mg/L	0.00002	-0.0024 mg/L	0.00002	1.01%
QC value within limits for Mn 257.610						Recovery = Not calculated
Mo 202.031†	19.8	-0.0002 mg/L	0.00044	-0.0002 mg/L	0.00044	272.93%
QC value within limits for Mo 202.031						Recovery = Not calculated
Na 330.237†	-29.4	0.5944 mg/L	0.01280	0.5944 mg/L	0.01280	2.15%
QC value within limits for Na 330.237						Recovery = Not calculated
Ni 231.604†	-0.1	-0.0020 mg/L	0.00008	-0.0020 mg/L	0.00008	4.26%
QC value within limits for Ni 231.604						Recovery = Not calculated
Pb 220.353†	3.8	-0.0012 mg/L	0.00048	-0.0012 mg/L	0.00048	38.82%
QC value within limits for Pb 220.353						Recovery = Not calculated
Sb 206.836†	4.0	0.0014 mg/L	0.00021	0.0014 mg/L	0.00021	15.40%
QC value within limits for Sb 206.836						Recovery = Not calculated
Se 196.026†	4.7	0.0047 mg/L	0.00044	0.0047 mg/L	0.00044	9.27%
QC value within limits for Se 196.026						Recovery = Not calculated
Sn 189.927†	-31.7	-0.0168 mg/L	0.00260	-0.0168 mg/L	0.00260	15.43%
QC value within limits for Sn 189.927						Recovery = Not calculated
Ti 337.279†	188.0	-0.0005 mg/L	0.00006	-0.0005 mg/L	0.00006	11.13%
QC value within limits for Ti 337.279						Recovery = Not calculated
Tl 190.801†	15.5	0.0308 mg/L	0.00248	0.0308 mg/L	0.00248	8.05%
QC value greater than the upper limit for Tl 190.801						Recovery = Not calculated
V 292.402†	-116.8	-0.0008 mg/L	0.00001	-0.0008 mg/L	0.00001	1.11%
QC value within limits for V 292.402						Recovery = Not calculated
Zn 213.857†	-62.4	-0.0013 mg/L	0.00004	-0.0013 mg/L	0.00004	2.98%
QC value within limits for Zn 213.857						Recovery = Not calculated

QC Failed. Continue with analysis.

Sequence No.: 87  
 Sample ID: ICSA  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 106  
 Date Collected: 6/22/2006 9:59:04 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

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 Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2424746.6	2424746.6			22:00:52
1	Ag 328.068†	-871.1	-195.3	-0.0004 mg/L	-0.0004 mg/L	22:00:58
1	Al 237.313†	2167952.4	2186955.9	243.1 mg/L	243.1 mg/L	22:00:52
1	As 188.979†	13.2	12.4	0.0097 mg/L	0.0097 mg/L	22:01:18
1	B 182.528†	-7.3	26.3	0.0207 mg/L	0.0207 mg/L	22:01:18
1	Ba 233.527†	-136.0	17.9	-0.0013 mg/L	-0.0013 mg/L	22:01:18
1	Be 313.107†	2138.7	-2973.5	-0.0003 mg/L	-0.0003 mg/L	22:00:58
1	Ca 315.886†	34339460.4	34632340.8	233.2 mg/L	233.2 mg/L	22:00:45
1	Cd 228.802†	490.9	103.4	-0.0004 mg/L	-0.0004 mg/L	22:01:18
1	Co 228.616†	-356.7	33.7	-0.0015 mg/L	-0.0015 mg/L	22:01:18
1	Cr 267.716†	1294.2	-457.2	0.0002 mg/L	0.0002 mg/L	22:01:18
1	Cu 324.752†	590.0	-861.2	-0.0050 mg/L	-0.0050 mg/L	22:00:58
1	Fe 238.204†	10404464.1	10493157.8	83.17 mg/L	83.17 mg/L	22:00:45
1	Fe 234.349†	3617274.9	3648228.0	89.06 mg/L	89.06 mg/L	22:00:52
1	Mg 279.077†	5195169.8	5239943.6	237.9 mg/L	237.9 mg/L	22:00:52
1	Mn 257.610†	5602.4	4801.3	0.0052 mg/L	0.0052 mg/L	22:00:58
1	Mo 202.031†	-175.4	-184.9	-0.0096 mg/L	-0.0096 mg/L	22:01:18
1	Na 330.237†	531.9	-622.0	-0.2822 mg/L	-0.2822 mg/L	22:00:58
1	Ni 231.604†	448.1	90.1	-0.0004 mg/L	-0.0004 mg/L	22:01:18
1	Pb 220.353†	-427.7	-310.5	-0.0194 mg/L	-0.0194 mg/L	22:01:18
1	Sb 206.836†	68.0	-11.3	-0.0028 mg/L	-0.0028 mg/L	22:01:18
1	Se 196.026†	-33.4	-25.3	-0.0372 mg/L	-0.0372 mg/L	22:01:18
1	Sn 189.927†	135.4	60.9	0.0124 mg/L	0.0124 mg/L	22:01:18
1	Ti 337.279†	5418.7	4533.8	0.0052 mg/L	0.0052 mg/L	22:00:58
1	Tl 190.801†	12.8	24.6	0.0392 mg/L	0.0392 mg/L	22:01:18
1	V 292.402†	2976.2	542.0	0.0018 mg/L	0.0018 mg/L	22:01:18
1	Zn 213.857†	3184.9	2256.6	0.0236 mg/L	0.0236 mg/L	22:01:18
2	Y 360.073	2427650.6	2427650.6			22:01:38
2	Ag 328.068†	-821.2	-143.9	-0.0002 mg/L	-0.0002 mg/L	22:01:43
2	Al 237.313†	2169392.3	2185790.8	242.9 mg/L	242.9 mg/L	22:01:38
2	As 188.979†	3.2	2.3	0.0013 mg/L	0.0013 mg/L	22:02:04
2	B 182.528†	-4.7	28.9	0.0228 mg/L	0.0228 mg/L	22:02:04
2	Ba 233.527†	-172.5	-18.7	-0.0015 mg/L	-0.0015 mg/L	22:02:04
2	Be 313.107†	2122.5	-2992.4	-0.0003 mg/L	-0.0003 mg/L	22:01:43
2	Ca 315.886†	34396864.3	34648739.7	233.4 mg/L	233.4 mg/L	22:01:30
2	Cd 228.802†	522.3	134.5	0.0000 mg/L	0.0000 mg/L	22:02:04
2	Co 228.616†	-352.2	38.7	-0.0014 mg/L	-0.0014 mg/L	22:02:04
2	Cr 267.716†	1321.9	-430.9	0.0004 mg/L	0.0004 mg/L	22:02:04
2	Cu 324.752†	604.8	-847.0	-0.0049 mg/L	-0.0049 mg/L	22:01:43
2	Fe 238.204†	10417874.4	10494114.5	83.18 mg/L	83.18 mg/L	22:01:30
2	Fe 234.349†	3620769.3	3647384.1	89.04 mg/L	89.04 mg/L	22:01:38
2	Mg 279.077†	5197455.9	5235978.7	237.8 mg/L	237.8 mg/L	22:01:38
2	Mn 257.610†	5533.0	4724.7	0.0052 mg/L	0.0052 mg/L	22:01:43
2	Mo 202.031†	-189.0	-198.4	-0.0106 mg/L	-0.0106 mg/L	22:02:04
2	Na 330.237†	499.9	-654.9	-0.3511 mg/L	-0.3511 mg/L	22:01:43
2	Ni 231.604†	436.9	78.3	-0.0006 mg/L	-0.0006 mg/L	22:02:04
2	Pb 220.353†	-403.1	-285.2	-0.0166 mg/L	-0.0166 mg/L	22:02:04
2	Sb 206.836†	77.0	-2.3	-0.0003 mg/L	-0.0003 mg/L	22:02:04
2	Se 196.026†	-19.4	-11.1	-0.0173 mg/L	-0.0173 mg/L	22:02:04
2	Sn 189.927†	117.1	42.3	0.0065 mg/L	0.0065 mg/L	22:02:04
2	Ti 337.279†	5283.6	4391.3	0.0050 mg/L	0.0050 mg/L	22:01:43
2	Tl 190.801†	-6.6	5.0	0.0212 mg/L	0.0212 mg/L	22:02:04
2	V 292.402†	2958.5	520.6	0.0017 mg/L	0.0017 mg/L	22:02:04
2	Zn 213.857†	3179.4	2247.2	0.0235 mg/L	0.0235 mg/L	22:02:04

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 Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
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Y 360.073	2426198.6				2053.38	0.08%
Ag 328.068†	-169.6	-0.0003 mg/L	0.00011	-0.0003 mg/L	0.00011	37.24%
QC value within limits for Ag 328.068						
Al 237.313†	2186373.4	243.0 mg/L	0.09	243.0 mg/L	0.09	0.04%
QC value within limits for Al 237.313						
As 188.979†	7.3	0.0055 mg/L	0.00595	0.0055 mg/L	0.00595	108.37%
QC value within limits for As 188.979						
B 182.528†	27.6	0.0217 mg/L	0.00151	0.0217 mg/L	0.00151	6.96%
QC value within limits for B 182.528						
Ba 233.527†	-0.4	-0.0014 mg/L	0.00014	-0.0014 mg/L	0.00014	10.16%
QC value within limits for Ba 233.527						
Be 313.107†	-2983.0	-0.0003 mg/L	0.00000	-0.0003 mg/L	0.00000	0.67%
QC value within limits for Be 313.107						
Ca 315.886†	34640540.3	233.3 mg/L	0.08	233.3 mg/L	0.08	0.03%
QC value within limits for Ca 315.886						
Cd 228.802†	118.9	-0.0002 mg/L	0.00028	-0.0002 mg/L	0.00028	124.95%
QC value within limits for Cd 228.802						
Co 228.616†	36.2	-0.0015 mg/L	0.00005	-0.0015 mg/L	0.00005	3.37%
QC value within limits for Co 228.616						
Cr 267.716†	-444.0	0.0003 mg/L	0.00012	0.0003 mg/L	0.00012	37.31%
QC value within limits for Cr 267.716						
Cu 324.752†	-854.1	-0.0049 mg/L	0.00006	-0.0049 mg/L	0.00006	1.14%
QC value within limits for Cu 324.752						
Fe 238.204†	10493636.1	83.18 mg/L	0.005	83.18 mg/L	0.005	0.01%
QC value within limits for Fe 238.204						
Fe 234.349†	3647806.0	89.05 mg/L	0.015	89.05 mg/L	0.015	0.02%
QC value within limits for Fe 234.349						
Mg 279.077†	5237961.1	237.8 mg/L	0.13	237.8 mg/L	0.13	0.05%
QC value within limits for Mg 279.077						
Mn 257.610†	4763.0	0.0052 mg/L	0.00005	0.0052 mg/L	0.00005	1.05%
QC value within limits for Mn 257.610						
Mo 202.031†	-191.6	-0.0101 mg/L	0.00073	-0.0101 mg/L	0.00073	7.22%
QC value within limits for Mo 202.031						
Na 330.237†	-638.5	-0.3166 mg/L	0.04876	-0.3166 mg/L	0.04876	15.40%
QC value within limits for Na 330.237						
Ni 231.604†	84.2	-0.0005 mg/L	0.00015	-0.0005 mg/L	0.00015	29.82%
QC value within limits for Ni 231.604						
Pb 220.353†	-297.9	-0.0180 mg/L	0.00196	-0.0180 mg/L	0.00196	10.90%
QC value less than the lower limit for Pb 220.353						
Sb 206.836†	-6.8	-0.0015 mg/L	0.00174	-0.0015 mg/L	0.00174	114.62%
QC value within limits for Sb 206.836						
Se 196.026†	-18.2	-0.0273 mg/L	0.01403	-0.0273 mg/L	0.01403	51.45%
QC value within limits for Se 196.026						
Sn 189.927†	51.6	0.0094 mg/L	0.00416	0.0094 mg/L	0.00416	44.06%
QC value within limits for Sn 189.927						
Ti 337.279†	4462.6	0.0051 mg/L	0.00013	0.0051 mg/L	0.00013	2.61%
QC value within limits for Ti 337.279						
Tl 190.801†	14.8	0.0302 mg/L	0.01268	0.0302 mg/L	0.01268	41.99%
QC value within limits for Tl 190.801						
V 292.402†	531.3	0.0018 mg/L	0.00006	0.0018 mg/L	0.00006	3.39%
QC value within limits for V 292.402						
Zn 213.857†	2251.9	0.0235 mg/L	0.00007	0.0235 mg/L	0.00007	0.30%
QC value within limits for Zn 213.857						
QC Failed. Continue with analysis.						

Sequence No.: 88  
 Sample ID: ICSAB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 105  
 Date Collected: 6/22/2006 10:03:42 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2412000.1	2412000.1			22:05:30
1	Ag 328.068†	162079.5	165023.7	0.4910 mg/L	0.4910 mg/L	22:05:36
1	Al 237.313†	2158497.3	2188924.5	243.3 mg/L	243.3 mg/L	22:05:30
1	As 188.979†	4.8	3.9	0.0025 mg/L	0.0025 mg/L	22:05:56
1	B 182.528†	-12.6	20.9	0.0164 mg/L	0.0164 mg/L	22:05:56

1	Ba	233.527†	40574.6	41295.7	0.2259 mg/L	0.2259 mg/L	22:05:36
1	Be	313.107†	1480380.6	1495900.1	0.2380 mg/L	0.2380 mg/L	22:05:30
1	Ca	315.886†	34260308.9	34735120.0	233.9 mg/L	233.9 mg/L	22:05:22
1	Cd	228.802†	36491.5	36608.8	0.4378 mg/L	0.4378 mg/L	22:05:36
1	Co	228.616†	14403.2	14997.6	0.2091 mg/L	0.2091 mg/L	22:05:56
1	Cr	267.716†	35525.6	34258.6	0.2301 mg/L	0.2301 mg/L	22:05:36
1	Cu	324.752†	41900.5	41028.7	0.2272 mg/L	0.2272 mg/L	22:05:36
1	Fe	238.204†	10382263.5	10526105.0	83.44 mg/L	83.44 mg/L	22:05:22
1	Fe	234.349†	3604936.2	3654997.8	89.22 mg/L	89.22 mg/L	22:05:30
1	Mg	279.077†	5175331.9	5247520.1	238.3 mg/L	238.3 mg/L	22:05:30
1	Mn	257.610†	227610.1	229935.7	0.2313 mg/L	0.2313 mg/L	22:05:36
1	Mo	202.031†	-198.8	-209.5	-0.0113 mg/L	-0.0113 mg/L	22:05:56
1	Na	330.237†	497.5	-654.1	-0.3786 mg/L	-0.3786 mg/L	22:05:36
1	Ni	231.604†	24444.8	24424.0	0.4275 mg/L	0.4275 mg/L	22:05:56
1	Pb	220.353†	3562.6	3733.2	0.4260 mg/L	0.4260 mg/L	22:05:56
1	Sb	206.836†	61.3	-17.7	-0.0073 mg/L	-0.0073 mg/L	22:05:56
1	Se	196.026†	-27.3	-19.2	-0.0287 mg/L	-0.0287 mg/L	22:05:56
1	Sn	189.927†	117.0	43.0	0.0067 mg/L	0.0067 mg/L	22:05:56
1	Ti	337.279†	5296.5	4438.8	0.0051 mg/L	0.0051 mg/L	22:05:36
1	Tl	190.801†	-0.9	10.8	0.0259 mg/L	0.0259 mg/L	22:05:56
1	V	292.402†	58321.3	56675.0	0.2325 mg/L	0.2325 mg/L	22:05:36
1	Zn	213.857†	43848.8	43504.7	0.4636 mg/L	0.4636 mg/L	22:05:36
2	Y	360.073	2421562.9	2421562.9			22:06:17
2	Ag	328.068†	161706.4	163997.9	0.4880 mg/L	0.4880 mg/L	22:06:22
2	Al	237.313†	2167786.3	2189663.0	243.4 mg/L	243.4 mg/L	22:06:17
2	As	188.979†	6.7	5.9	0.0041 mg/L	0.0041 mg/L	22:06:43
2	B	182.528†	-6.3	27.3	0.0215 mg/L	0.0215 mg/L	22:06:43
2	Ba	233.527†	40450.8	41008.2	0.2244 mg/L	0.2244 mg/L	22:06:22
2	Be	313.107†	1486578.3	1496231.8	0.2381 mg/L	0.2381 mg/L	22:06:17
2	Ca	315.886†	34496483.9	34836462.4	234.6 mg/L	234.6 mg/L	22:06:09
2	Cd	228.802†	36586.1	36558.2	0.4372 mg/L	0.4372 mg/L	22:06:22
2	Co	228.616†	14485.4	15023.0	0.2095 mg/L	0.2095 mg/L	22:06:43
2	Cr	267.716†	35559.4	34150.5	0.2294 mg/L	0.2294 mg/L	22:06:22
2	Cu	324.752†	41949.1	40910.0	0.2266 mg/L	0.2266 mg/L	22:06:22
2	Fe	238.204†	10440734.6	10543586.1	83.57 mg/L	83.57 mg/L	22:06:09
2	Fe	234.349†	3620179.4	3655958.1	89.24 mg/L	89.24 mg/L	22:06:17
2	Mg	279.077†	5196348.9	5248023.6	238.3 mg/L	238.3 mg/L	22:06:17
2	Mn	257.610†	227227.7	228638.1	0.2300 mg/L	0.2300 mg/L	22:06:22
2	Mo	202.031†	-184.6	-194.4	-0.0101 mg/L	-0.0101 mg/L	22:06:43
2	Na	330.237†	560.4	-592.5	-0.2494 mg/L	-0.2494 mg/L	22:06:22
2	Ni	231.604†	24605.0	24487.9	0.4287 mg/L	0.4287 mg/L	22:06:43
2	Pb	220.353†	3592.6	3749.2	0.4278 mg/L	0.4278 mg/L	22:06:43
2	Sb	206.836†	74.6	-4.6	-0.0037 mg/L	-0.0037 mg/L	22:06:43
2	Se	196.026†	-33.0	-24.9	-0.0367 mg/L	-0.0367 mg/L	22:06:43
2	Sn	189.927†	110.9	36.4	0.0046 mg/L	0.0046 mg/L	22:06:43
2	Ti	337.279†	5362.2	4484.0	0.0052 mg/L	0.0052 mg/L	22:06:22
2	Tl	190.801†	5.2	16.9	0.0315 mg/L	0.0315 mg/L	22:06:43
2	V	292.402†	58222.4	56341.6	0.2312 mg/L	0.2312 mg/L	22:06:22
2	Zn	213.857†	43857.7	43338.2	0.4618 mg/L	0.4618 mg/L	22:06:22

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2416781.5				6761.90	0.28%
Ag 328.068†	164510.8	0.4895 mg/L	0.00216	0.4895 mg/L	0.00216	0.44%
QC value within limits for Ag 328.068 Recovery = 97.90%						
Al 237.313†	2189293.7	243.3 mg/L	0.06	243.3 mg/L	0.06	0.02%
QC value within limits for Al 237.313 Recovery = 97.33%						
As 188.979†	4.9	0.0033 mg/L	0.00114	0.0033 mg/L	0.00114	34.62%
QC value within limits for As 188.979 Recovery = Not calculated						
B 182.528†	24.1	0.0189 mg/L	0.00365	0.0189 mg/L	0.00365	19.30%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	41151.9	0.2251 mg/L	0.00112	0.2251 mg/L	0.00112	0.50%
QC value within limits for Ba 233.527 Recovery = 90.06%						
Be 313.107†	1496066.0	0.2381 mg/L	0.00004	0.2381 mg/L	0.00004	0.02%
QC value within limits for Be 313.107 Recovery = 95.23%						
Ca 315.886†	34785791.2	234.3 mg/L	0.48	234.3 mg/L	0.48	0.21%
QC value within limits for Ca 315.886 Recovery = 93.71%						
Cd 228.802†	36583.5	0.4375 mg/L	0.00043	0.4375 mg/L	0.00043	0.10%
QC value within limits for Cd 228.802 Recovery = 87.50%						



Co 228.616†	15010.3	0.2093 mg/L	0.00025	0.2093 mg/L	0.00025	0.12%
QC value within limits for Co 228.616 Recovery = 83.73%						
Cr 267.716†	34204.5	0.2297 mg/L	0.00051	0.2297 mg/L	0.00051	0.22%
QC value within limits for Cr 267.716 Recovery = 91.89%						
Cu 324.752†	40969.4	0.2269 mg/L	0.00047	0.2269 mg/L	0.00047	0.21%
QC value within limits for Cu 324.752 Recovery = 90.77%						
Fe 238.204†	10534845.6	83.51 mg/L	0.098	83.51 mg/L	0.098	0.12%
QC value within limits for Fe 238.204 Recovery = 83.51%						
Fe 234.349†	3655477.9	89.23 mg/L	0.017	89.23 mg/L	0.017	0.02%
QC value within limits for Fe 234.349 Recovery = 89.23%						
Mg 279.077†	5247771.8	238.3 mg/L	0.02	238.3 mg/L	0.02	0.01%
QC value within limits for Mg 279.077 Recovery = 95.32%						
Mn 257.610†	229286.9	0.2307 mg/L	0.00092	0.2307 mg/L	0.00092	0.40%
QC value within limits for Mn 257.610 Recovery = 92.27%						
Mo 202.031†	-202.0	-0.0107 mg/L	0.00082	-0.0107 mg/L	0.00082	7.64%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 330.237†	-623.3	-0.3140 mg/L	0.09138	-0.3140 mg/L	0.09138	29.10%
QC value within limits for Na 330.237 Recovery = Not calculated						
Ni 231.604†	24456.0	0.4281 mg/L	0.00079	0.4281 mg/L	0.00079	0.19%
QC value within limits for Ni 231.604 Recovery = 85.62%						
Pb 220.353†	3741.2	0.4269 mg/L	0.00126	0.4269 mg/L	0.00126	0.29%
QC value within limits for Pb 220.353 Recovery = 85.38%						
Sb 206.836†	-11.2	-0.0055 mg/L	0.00255	-0.0055 mg/L	0.00255	46.16%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-22.1	-0.0327 mg/L	0.00560	-0.0327 mg/L	0.00560	17.14%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	39.7	0.0057 mg/L	0.00147	0.0057 mg/L	0.00147	25.98%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	4461.4	0.0051 mg/L	0.00004	0.0051 mg/L	0.00004	0.83%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	13.8	0.0287 mg/L	0.00395	0.0287 mg/L	0.00395	13.74%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	56508.3	0.2318 mg/L	0.00097	0.2318 mg/L	0.00097	0.42%
QC value within limits for V 292.402 Recovery = 92.73%						
Zn 213.857†	43421.5	0.4627 mg/L	0.00127	0.4627 mg/L	0.00127	0.27%
QC value within limits for Zn 213.857 Recovery = 92.54%						

All analyte(s) passed QC.

Sequence No.: 89  
 Sample ID: WASH  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 0  
 Date Collected: 6/22/2006 10:08:21 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: WASH

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2488611.1	2488611.1			22:09:47
1	Ag 328.068†	-535.0	157.6	0.0007 mg/L	0.0007 mg/L	22:09:53
1	Al 237.313†	23.8	341.3	0.0371 mg/L	0.0371 mg/L	22:10:13
1	As 188.979†	3.7	2.7	0.0016 mg/L	0.0016 mg/L	22:10:13
1	B 182.528†	-34.1	0.1	-0.0004 mg/L	-0.0004 mg/L	22:10:13
1	Ba 233.527†	-80.7	75.7	-0.0010 mg/L	-0.0010 mg/L	22:10:13
1	Be 313.107†	5726.2	496.7	0.0000 mg/L	0.0000 mg/L	22:09:53
1	Ca 315.886†	13818.3	10487.9	0.0551 mg/L	0.0551 mg/L	22:09:53
1	Cd 228.802†	390.2	-8.2	0.0001 mg/L	0.0001 mg/L	22:10:13
1	Co 228.616†	-333.2	66.1	-0.0011 mg/L	-0.0011 mg/L	22:10:13
1	Cr 267.716†	1812.3	18.4	-0.0011 mg/L	-0.0011 mg/L	22:09:53
1	Cu 324.752†	1633.9	149.4	0.0006 mg/L	0.0006 mg/L	22:09:53
1	Fe 238.204†	5510.3	4432.7	0.0278 mg/L	0.0278 mg/L	22:09:53
1	Fe 234.349†	1698.4	1444.8	0.0304 mg/L	0.0304 mg/L	22:10:13
1	Mg 279.077†	1423.4	1395.4	0.0610 mg/L	0.0610 mg/L	22:09:53
1	Mn 257.610†	1782.4	902.3	-0.0017 mg/L	-0.0017 mg/L	22:09:53
1	Mo 202.031†	15.1	6.9	-0.0011 mg/L	-0.0011 mg/L	22:10:13
1	Na 330.237†	1214.2	34.7	0.7286 mg/L	0.7286 mg/L	22:09:53
1	Ni 231.604†	391.5	23.0	-0.0016 mg/L	-0.0016 mg/L	22:10:13
1	Pb 220.353†	-109.6	13.2	-0.0002 mg/L	-0.0002 mg/L	22:10:13
1	Sb 206.836†	79.3	-2.0	-0.0002 mg/L	-0.0002 mg/L	22:10:13
1	Se 196.026†	-3.6	4.9	0.0050 mg/L	0.0050 mg/L	22:10:13

## ANALYSIS SEQUENCE

BPG0206

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0206-CAL1	QC		1		6F21081		
BPG0206-CAL2	QC		2		6F26074		
BPG0206-CAL3	QC		3		6F26075		
BPG0206-CAL4	QC		4		6F26076		
BPG0206-CAL5	QC		5		6F26077		
BPG0206-ICV1	QC		6		6F26076		
BPG0206-SCV1	QC		7		6F26078		
BPG0206-ICB1	QC		8				
BF62206-BLK2	QC		9				
BF62206-BS2	QC		10				
BPG0206-CCB1	QC		11				
BPG0206-CCV1	QC		12		6F26076		
BF62206-BSD2	QC		13				
BF62206-DUP3	QC		14				
BF62206-MS3	QC		15				
BF62206-PS1	QC		16				
BF62206-DUP4	QC		17				
BF62206-MS4	QC		18				
BF62206-PS2	QC		19				
0606346-01	Sb: ppm Diss Antimony 7041	G	20				MACTEC Engineering & Consulting, Inc
0606346-01	Pb: ppm Diss Lead 7421	G	21				MACTEC Engineering & Consulting, Inc
0606346-01	As: ppm Diss Arsenic 7060	G	22				MACTEC Engineering & Consulting, Inc
0606346-01	Sb: ppm Antimony 7041	A	23				MACTEC Engineering & Consulting, Inc
0606346-01	Pb: ppm Lead 7421	A	24				MACTEC Engineering & Consulting, Inc
0606346-01	As: ppm Arsenic 7060	A	25				MACTEC Engineering & Consulting, Inc
0606346-02	Sb: ppm Diss Antimony 7041	O	26				MACTEC Engineering & Consulting, Inc
0606346-02	Pb: ppm Diss Lead 7421	O	27				MACTEC Engineering & Consulting, Inc
0606346-02	As: ppm Diss Arsenic 7060	O	28				MACTEC Engineering & Consulting, Inc
0606346-02	Sb: ppm Antimony 7041	A	29				MACTEC Engineering & Consulting, Inc
0606346-02	Pb: ppm Lead 7421	A	30				MACTEC Engineering & Consulting, Inc
0606346-02	As: ppm Arsenic 7060	A	31				MACTEC Engineering & Consulting, Inc
0606346-03	Sb: ppm Diss Antimony 7041	O	32				MACTEC Engineering & Consulting, Inc
0606346-03	Sb: ppm Antimony 7041	A	33				MACTEC Engineering & Consulting, Inc

## ANALYSIS SEQUENCE

BPG0206

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606346-03	Pb: ppm Diss Lead 7421	O	34				MACTEC Engineering & Consulting, Inc
0606346-03	Pb: ppm Lead 7421	A	35				MACTEC Engineering & Consulting, Inc
0606346-03	As: ppm Arsenic 7060	A	36				MACTEC Engineering & Consulting, Inc
0606346-03	As: ppm Diss Arsenic 7060	O	37				MACTEC Engineering & Consulting, Inc
BPG0206-CCB2	QC		38				
BPG0206-CCV2	QC		39		6F26076		
0606346-05	Sb: ppm Diss Antimony 7041	G	40				MACTEC Engineering & Consulting, Inc
0606346-05	Sb: ppm Antimony 7041	A	41				MACTEC Engineering & Consulting, Inc
0606346-05	Pb: ppm Lead 7421	A	42				MACTEC Engineering & Consulting, Inc
0606346-05	As: ppm Arsenic 7060	A	43				MACTEC Engineering & Consulting, Inc
0606346-05	As: ppm Diss Arsenic 7060	G	44				MACTEC Engineering & Consulting, Inc
0606346-06	Sb: ppm Diss Antimony 7041	G	45				MACTEC Engineering & Consulting, Inc
0606346-06	Sb: ppm Antimony 7041	A	46				MACTEC Engineering & Consulting, Inc
0606346-06	Pb: ppm Lead 7421	A	47				MACTEC Engineering & Consulting, Inc
0606346-06	As: ppm Arsenic 7060	A	48				MACTEC Engineering & Consulting, Inc
0606346-06	As: ppm Diss Arsenic 7060	G	49				MACTEC Engineering & Consulting, Inc
0606346-07	Sb: ppm Diss Antimony 7041	G	50				MACTEC Engineering & Consulting, Inc
0606346-07	Sb: ppm Antimony 7041	A	51				MACTEC Engineering & Consulting, Inc
0606346-07	Pb: ppm Diss Lead 7421	G	52				MACTEC Engineering & Consulting, Inc
0606346-07	Pb: ppm Lead 7421	A	53				MACTEC Engineering & Consulting, Inc
0606346-07	As: ppm Arsenic 7060	A	54				MACTEC Engineering & Consulting, Inc
0606346-07	As: ppm Diss Arsenic 7060	G	55				MACTEC Engineering & Consulting, Inc
0606346-08	Sb: ppm Diss Antimony 7041	G	56				MACTEC Engineering & Consulting, Inc
0606346-08	Sb: ppm Antimony 7041	A	57				MACTEC Engineering & Consulting, Inc
0606346-08	Pb: ppm Diss Lead 7421	G	58				MACTEC Engineering & Consulting, Inc
0606346-08	Pb: ppm Lead 7421	A	59				MACTEC Engineering & Consulting, Inc
0606346-08	As: ppm Arsenic 7060	A	60				MACTEC Engineering & Consulting, Inc
0606346-08	As: ppm Diss Arsenic 7060	G	61				MACTEC Engineering & Consulting, Inc
0606346-09	Sb: ppm Diss Antimony 7041	G	62				MACTEC Engineering & Consulting, Inc
0606346-09	Sb: ppm Antimony 7041	A	63				MACTEC Engineering & Consulting, Inc
0606346-09	Pb: ppm Diss Lead 7421	G	64				MACTEC Engineering & Consulting, Inc
0606346-09	Pb: ppm Lead 7421	A	65				MACTEC Engineering & Consulting, Inc
0606346-09	As: ppm Arsenic 7060	A	66				MACTEC Engineering & Consulting, Inc

Samples Loaded By

Date

Data Processed By

Date

## ANALYSIS SEQUENCE

BPG0206

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606346-09	As: ppm Diss Arsenic 7060	G	67				MACTEC Engineering & Consulting, Inc
0606346-10	Sb: ppm Diss Antimony 7041	G	68				MACTEC Engineering & Consulting, Inc
0606346-10	Sb: ppm Antimony 7041	A	69				MACTEC Engineering & Consulting, Inc
0606346-10	Pb: ppm Diss Lead 7421	G	70				MACTEC Engineering & Consulting, Inc
0606346-10	Pb: ppm Lead 7421	A	71				MACTEC Engineering & Consulting, Inc
0606346-10	As: ppm Arsenic 7060	A	72				MACTEC Engineering & Consulting, Inc
0606346-10	As: ppm Diss Arsenic 7060	G	73				MACTEC Engineering & Consulting, Inc
0606346-11	Sb: ppm Diss Antimony 7041	G	74				MACTEC Engineering & Consulting, Inc
0606346-11	Sb: ppm Antimony 7041	A	75				MACTEC Engineering & Consulting, Inc
0606346-11	Pb: ppm Diss Lead 7421	G	76				MACTEC Engineering & Consulting, Inc
0606346-11	Pb: ppm Lead 7421	A	77				MACTEC Engineering & Consulting, Inc
0606346-11	As: ppm Arsenic 7060	A	78				MACTEC Engineering & Consulting, Inc
0606346-11	As: ppm Diss Arsenic 7060	G	79				MACTEC Engineering & Consulting, Inc
BF62207-DUP3	QC		80				
BF62207-MS3	QC		81				
BF62207-PS1	QC		82				
BPG0206-CCB3	QC		83				
BPG0206-CCV3	QC		84		6F26076		
BF62207-DUP4	QC		85				
BF62207-MS4	QC		86				
BF62207-PS2	QC		87				
0606346-13	Sb: ppm Diss Antimony 7041	A	88				MACTEC Engineering & Consulting, Inc
0606346-13	Sb: ppm Antimony 7041	A	89				MACTEC Engineering & Consulting, Inc
0606346-13	Pb: ppm Diss Lead 7421	A	90				MACTEC Engineering & Consulting, Inc
0606346-13	Pb: ppm Lead 7421	A	91				MACTEC Engineering & Consulting, Inc
0606346-13	As: ppm Arsenic 7060	A	92				MACTEC Engineering & Consulting, Inc
0606346-13	As: ppm Diss Arsenic 7060	A	93				MACTEC Engineering & Consulting, Inc
0606346-14	Sb: ppm Diss Antimony 7041	A	94				MACTEC Engineering & Consulting, Inc
0606346-14	Sb: ppm Antimony 7041	A	95				MACTEC Engineering & Consulting, Inc
0606346-14	Pb: ppm Diss Lead 7421	A	96				MACTEC Engineering & Consulting, Inc
0606346-14	Pb: ppm Lead 7421	A	97				MACTEC Engineering & Consulting, Inc
0606346-14	As: ppm Arsenic 7060	A	98				MACTEC Engineering & Consulting, Inc
0606346-14	As: ppm Diss Arsenic 7060	A	99				MACTEC Engineering & Consulting, Inc

Samples Loaded By

Date

Data Processed By

Date

## ANALYSIS SEQUENCE

BPG0206

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606346-15	Sb: ppm Diss Antimony 7041	A	100				MACTEC Engineering & Consulting, In
0606346-15	Sb: ppm Antimony 7041	A	101				MACTEC Engineering & Consulting, In
0606346-15	Pb: ppm Diss Lead 7421	A	102				MACTEC Engineering & Consulting, In
0606346-15	Pb: ppm Lead 7421	A	103				MACTEC Engineering & Consulting, In
0606346-15	As: ppm Arsenic 7060	A	104				MACTEC Engineering & Consulting, In
0606346-15	As: ppm Diss Arsenic 7060	A	105				MACTEC Engineering & Consulting, In
BPG0206-SRD1	QC		106				
BPG0206-SRD2	QC		107				
BPG0206-SRD3	QC		108				
BPG0206-SRD4	QC		109				
BPG0206-CCB4	QC		110				
BPG0206-CCV4	QC		111		6F26076		
BPG0206-CCV5	QC		112		6F26076		
BPG0206-CCV6	QC		113		6F26076		
BPG0206-CCV7	QC		114		6F26076		
BPG0206-CCB5	QC		115				
BPG0206-CCB6	QC		116				
BPG0206-CCB7	QC		117				
BF62302-BLK2	QC		118				
BF62302-BS2	QC		119				
BF62302-BSD2	QC		120				
BF62302-DUP2	QC		121				
BF62302-MS2	QC		122				
BF62302-PS2	QC		123				
BPG0206-SRD5	QC		124				
0606372-01	As: ppm Arsenic 7060	G	125				MACTEC Engineering & Consulting, In
0606372-01	As: ppm Diss Arsenic 7060	G	126				MACTEC Engineering & Consulting, In
0606372-01	Pb: ppm Diss Lead 7421	G	127				MACTEC Engineering & Consulting, In
0606372-01	Pb: ppm Lead 7421	G	128				MACTEC Engineering & Consulting, In
0606372-01	Sb: ppm Antimony 7041	G	129				MACTEC Engineering & Consulting, In
0606372-01	Sb: ppm Diss Antimony 7041	G	130				MACTEC Engineering & Consulting, In
0606372-02	As: ppm Arsenic 7060	G	131				MACTEC Engineering & Consulting, In
0606372-02	As: ppm Diss Arsenic 7060	G	132				MACTEC Engineering & Consulting, In

Samples Loaded By

Date

Data Processed By

Date

## ANALYSIS SEQUENCE

BPG0206

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606372-02	Pb: ppm Diss Lead 7421	G	133				MACTEC Engineering & Consulting, Inc
0606372-02	Pb: ppm Lead 7421	G	134				MACTEC Engineering & Consulting, Inc
0606372-02	Sb: ppm Antimony 7041	G	135				MACTEC Engineering & Consulting, Inc
0606372-02	Sb: ppm Diss Antimony 7041	G	136				MACTEC Engineering & Consulting, Inc
0606372-03	As: ppm Arsenic 7060	G	137				MACTEC Engineering & Consulting, Inc
0606372-03	As: ppm Diss Arsenic 7060	G	138				MACTEC Engineering & Consulting, Inc
0606372-03	Pb: ppm Diss Lead 7421	G	139				MACTEC Engineering & Consulting, Inc
0606372-03	Pb: ppm Lead 7421	G	140				MACTEC Engineering & Consulting, Inc
0606372-03	Sb: ppm Antimony 7041	G	141				MACTEC Engineering & Consulting, Inc
0606372-03	Sb: ppm Diss Antimony 7041	G	142				MACTEC Engineering & Consulting, Inc

Samples Loaded By \_\_\_\_\_

Date \_\_\_\_\_

Data Processed By \_\_\_\_\_

Date \_\_\_\_\_

## ANALYSIS SEQUENCE

BPG0208

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0208-CAL1	QC		1		6F21081		
BPG0208-CAL2	QC		2		6F26079		
BPG0208-CAL3	QC		3		6F26074		
BPG0208-CAL4	QC		4		6F26075		
BPG0208-CAL5	QC		5		6F26076		
BPG0208-ICV1	QC		6		6F26075		
BPG0208-SCV1	QC		7		6F26082		
BPG0208-ICB1	QC		8				
BF62206-DUP5	QC		9				
BF62206-MS5	QC		10				
BF62206-PS3	QC		11				
BPG0208-CCB1	QC		12				
BPG0208-CCV1	QC		13		6F26075		
BF62206-DUP6	QC		14				
BF62206-MS6	QC		15				
BF62206-PS4	QC		16				
0606346-01	Tl: ppm Diss Thallium 7841	G	17				MACTEC Engineering & Consulting, In
0606346-01	Tl: ppm Thallium 7841	A	18				MACTEC Engineering & Consulting, In
0606346-02	Tl: ppm Diss Thallium 7841	O	19				MACTEC Engineering & Consulting, In
0606346-02	Tl: ppm Thallium 7841	A	20				MACTEC Engineering & Consulting, In
0606346-03	Tl: ppm Diss Thallium 7841	O	21				MACTEC Engineering & Consulting, In
0606346-03	Tl: ppm Thallium 7841	A	22				MACTEC Engineering & Consulting, In
0606346-05	Tl: ppm Diss Thallium 7841	G	23				MACTEC Engineering & Consulting, In
0606346-05	Tl: ppm Thallium 7841	A	24				MACTEC Engineering & Consulting, In
0606346-06	Tl: ppm Diss Thallium 7841	G	25				MACTEC Engineering & Consulting, In
0606346-06	Tl: ppm Thallium 7841	A	26				MACTEC Engineering & Consulting, In
0606346-07	Tl: ppm Diss Thallium 7841	G	27				MACTEC Engineering & Consulting, In
0606346-07	Tl: ppm Thallium 7841	A	28				MACTEC Engineering & Consulting, In
0606346-08	Tl: ppm Diss Thallium 7841	G	29				MACTEC Engineering & Consulting, In
0606346-08	Tl: ppm Thallium 7841	A	30				MACTEC Engineering & Consulting, In
BPG0208-CCB2	QC		31				
BPG0208-CCV2	QC		32		6F26075		
0606346-09	Tl: ppm Diss Thallium 7841	G	33				MACTEC Engineering & Consulting, In

Samples Loaded By

Date

Data Processed By

Date

## ANALYSIS SEQUENCE

BPG0208

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606346-09	Tl: ppm Thallium 7841	A	34				MACTEC Engineering & Consulting, In
0606346-10	Tl: ppm Diss Thallium 7841	G	35				MACTEC Engineering & Consulting, In
0606346-10	Tl: ppm Thallium 7841	A	36				MACTEC Engineering & Consulting, In
0606346-11	Tl: ppm Diss Thallium 7841	G	37				MACTEC Engineering & Consulting, In
0606346-11	Tl: ppm Thallium 7841	A	38				MACTEC Engineering & Consulting, In
BF62207-DUP5	QC		39				
BF62207-MS5	QC		40				
BF62207-PS3	QC		41				
BF62207-DUP6	QC		42				
BF62207-MS6	QC		43				
BF62207-PS4	QC		44				
0606346-13	Tl: ppm Diss Thallium 7841	A	45				MACTEC Engineering & Consulting, In
0606346-13	Tl: ppm Thallium 7841	A	46				MACTEC Engineering & Consulting, In
BPG0208-CCB3	QC		47				
BPG0208-CCV3	QC		48		6F26075		
0606346-14	Tl: ppm Diss Thallium 7841	A	49				MACTEC Engineering & Consulting, In
0606346-14	Tl: ppm Thallium 7841	A	50				MACTEC Engineering & Consulting, In
0606346-15	Tl: ppm Diss Thallium 7841	A	51				MACTEC Engineering & Consulting, In
0606346-15	Tl: ppm Thallium 7841	A	52				MACTEC Engineering & Consulting, In
BPG0208-SRD1	QC		53				
BPG0208-SRD2	QC		54				
BPG0208-SRD3	QC		55				
BPG0208-SRD4	QC		56				
BPG0208-CCV4	QC		57		6F26075		
BPG0208-CCB4	QC		58				
BF62302-BLK3	QC		59				
BF62302-BS3	QC		60				
BF62302-BSD3	QC		61				
BF62302-DUP3	QC		62				
BF62302-MS3	QC		63				
BF62302-PS3	QC		64				
0606372-01	Tl: ppm Diss Thallium 7841	G	65				MACTEC Engineering & Consulting, In
0606372-01	Tl: ppm Thallium 7841	G	66				MACTEC Engineering & Consulting, In

Samples Loaded By

Date

Data Processed By

Date



## ANALYSIS SEQUENCE

BPG0208

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606372-02	Tl: ppm Diss Thallium 7841	G	67				MACTEC Engineering & Consulting, Inc
0606372-02	Tl: ppm Thallium 7841	G	68				MACTEC Engineering & Consulting, Inc
0606372-03	Tl: ppm Diss Thallium 7841	G	69				MACTEC Engineering & Consulting, Inc
0606372-03	Tl: ppm Thallium 7841	G	70				MACTEC Engineering & Consulting, Inc
BPG0208-SRD5	QC		71				

Samples Loaded By

Date

Data Processed By

Date

**ESS LABORATORY**  
**GFAA Data Review Check List**

SIF Method: <u>As Pb Sb Tl<sub>2</sub></u>		Run Date: <u>6/26/06</u>		
Project Number(s): <u>06341-02dis, 06346, 352, 353, 371, 372, 375, 407, 386</u>				
Batch Number (s): <u>0626064A</u>				
SOP NO. 30 2009				
Review Item	Yes (X)	No (X)	N/A (X)	
1. Does the cal curve consist of four Calibration Standards including a blank and is its correlation within QC limits ( $\geq 0.995$ )?	X			
2. Is the low calibration standard at the reporting limit?	X			
3. If the low standard is above the reporting limit, is a CRI analyzed at the beginning of the run? Does the recovery meet QC limits (80-120%)?				X
4. Is the midpoint calibration standard reanalyzed immediately after the curve and is it within QC limits of 90-110% ( $\pm 5\%$ for 200.9)?	X			<u>8/6/2806</u>
5. Is the ICV from a second source and is its recovery within QC limits (90-110%)	X	X		
6. Is the mid-point calibration standard re-analyzed every 10 samples and at the end of the run and are its recoveries within QC limits (90-110%)?		X		
7. Is the CCB analyzed at beginning, after every 10 samples and at end of the run and are its recoveries within QC limits ( $< 2 \times MDL$ )?	X			
8. Are the method blank recoveries within QC limits?	X			
9. Are the LCS and ERA recoveries within QC limits (LCS: 80-120% for 7000, 85-115% for 200.9, ERA see COA)?	X			
10. Are matrix dups run at desired frequency (1 per 10 samples or per analytical batch) and are RPD's within QC limits ( $< 20\%$ )?	X			
11. Are matrix spikes run at desired frequency frequency (1 per 10 samples or per analytical batch) and are recoveries within QC limits (80-120%)?		X		
12. Are all samples with concentrations $>$ the highest calibration standard diluted and reanalyzed?				X
13. Has the serial dilution been analyzed at the required frequency (once per analytical batch) and are results within criterion ( $\pm 10\%$ RPD)?	X			
14. Is the batch post digestion spike within QC limits (85-115%)?		X		
15. Are all sample hold times met?	X			
16. Are all non-conformances included and noted?	X			
17. Is the correct methodology used for sample prep and analysis?	X			
18. Are all calculations checked?	X			
19. Did analyst sign/date appropriate printouts and report sheets?	X			
20. Are all samples located in the correct auto-sampler locations?	X			

Comments on any "No" response:

Tl-06346-06 PDS high 06371-01 PDS high BFG2403-BIK1 PDS high

As OK

Pb-BFG2706-MS4 high; 06346-15dis 06372-03 PDS high CCVs high @ end  
all all hits plus high PSD samples

Return BFG2706-DefZ 06346-05dis No dis BFG2301-BIK1 BS2 BSD2; BFG2302-BIK1 DP  
0606375-01 Batch BFG2403 (06407) 06386-16

Analyst: SP Date: 6/28/06 2<sup>nd</sup> Rvw: STJ Date: 6/28/06

Sb: BFG2403-BIK1 PDS high

Control Number: 30.0022-0602A

Page \_\_\_\_\_

## Autosampler Loading List

Sample Information File: 062606YA.SIF

Methods: Tl 2 As 5 Pb 2 Sb 5

Location	Elements	Solution
1	Sb	Sample: 0606341-02 dis
2	Tl, As, Pb, Sb	Sample: bf62206-blk1
3	Tl, As, Pb, Sb	Sample: bf62206-bs2
4	Tl, As, Pb, Sb	Sample: bf62206-bsd2
5	Tl, As, Pb, Sb	Sample: 0606346-01
6	Tl, As, Pb, Sb	Sample: bf62206-dup1
7	Tl, As, Pb, Sb	Sample: bf62206-ms3
8	Tl, As, Pb, Sb	Sample: bf62206-sd1 x5
9	Tl, As, Pb, Sb	Sample: 0606346-02
10	Tl, As, Pb, Sb	Sample: 0606346-03
11	Tl, As, Pb, Sb	Sample: 0606346-05
12	Tl, As, Pb, Sb	Sample: 0606346-06
13	Tl, As, Pb, Sb	Sample: 0606346-07
14	Tl, As, Pb, Sb	Sample: 0606346-08
15	Tl, As, Pb, Sb	Sample: 0606346-09
16	Tl, As, Pb, Sb	Sample: 0606346-10
17	Tl, As, Pb, Sb	Sample: 0606346-11
18	Tl, As, Pb, Sb	Sample: bf62206-dup2
19	Tl, As, Pb, Sb	Sample: bf62206-ms4
20	Tl, As, Pb, Sb	Sample: bf62206-sd2 x5
21	Tl, As, Pb, Sb	Sample: 0606346-13
22	Tl, As, Pb, Sb	Sample: 0606346-14
23	Tl, As, Pb, Sb	Sample: 0606346-15
24	Tl, As, Pb, Sb	Sample: 0606346-01 dis
25	Tl, As, Pb, Sb	Sample: 0606346-02 dis
26	Tl, As, Pb, Sb	Sample: 0606346-03 dis
27	Tl, As, Pb, Sb	Sample: 0606346-05 dis
28	Tl, As, Pb, Sb	Sample: 0606346-06 dis
29	Tl, As, Pb, Sb	Sample: bf62207-dup1
30	Tl, As, Pb, Sb	Sample: bf62207-ms3
31	Tl, As, Pb, Sb	Sample: bf62207-sd1 x5
32	Tl, As, Pb, Sb	Sample: 0606346-07 dis
33	Tl, As, Pb, Sb	Sample: 0606346-08 dis
34	Tl, As, Pb, Sb	Sample: 0606346-09 dis
35	Tl, As, Pb, Sb	Sample: 0606346-10 dis
36	Tl, As, Pb, Sb	Sample: 0606346-11 dis
37	Tl, As, Pb, Sb	Sample: 0606346-13 dis
38	Tl, As, Pb, Sb	Sample: 0606346-14 dis
39	Tl, As, Pb, Sb	Sample: 0606346-15 dis
40	Tl, As, Pb, Sb	Sample: bf62207-dup2
41	Tl, As, Pb, Sb	Sample: bf62207-ms4
42	Tl, As, Pb, Sb	Sample: bf62207-sd2 x5
43	Tl, As, Pb, Sb	Sample: bf62301-blk1
44	Tl, As, Pb, Sb	Sample: bf62301-bs2
45	Tl, As, Pb, Sb	Sample: bf62301-bsd2
46	Tl, As, Pb, Sb	Sample: <del>bf62301-blk1</del> BF62301-BLK2
47	Pb	Sample: 0606352-01
48	Pb	Sample: 0606353-01
49	Tl, As, Pb, Sb	Sample: 0606371-01 dis
50	Tl, As, Pb, Sb	Sample: 0606371-01
51	Tl, As, Pb, Sb	Sample: bf62301-dup2
52	Tl, As, Pb, Sb	Sample: bf62301-ms3
53	Tl, As, Pb, Sb	Sample: bf62301-sd2 x5
54	Tl, As, Pb, Sb	Sample: bf62302-blk1
55	Tl, As, Pb, Sb	Sample: bf62302-bs2
56	Tl, As, Pb, Sb	Sample: bf62302-bsd2
57	Tl, As, Pb, Sb	Sample: 0606372-01 dis
58	Tl, As, Pb, Sb	Sample: 0606372-02 dis
59	Tl, As, Pb, Sb	Sample: 0606372-03 dis
60	Tl, As, Pb, Sb	Sample: 0606372-01
61	Tl, As, Pb, Sb	Sample: 0606372-02

62	Tl, As, Pb, Sb	Sample: 0606372-03
63	Tl, As, Pb, Sb	Sample: bf62302-dup1
64	Tl, As, Pb, Sb	Sample: bf62302-ms2
65	Tl, As, Pb, Sb	Sample: bf62302-sd1 x5
66	Tl, As, Pb, Sb	Sample: 0606375-01
67	Tl, As, Pb, Sb	Sample: bf62403-blk1
68	Tl, As, Pb, Sb	Sample: bf62403-bs2
69	Tl, As, Pb, Sb	Sample: bf62403-bsd2
70	Tl, As, Pb, Sb	Sample: 0606407-01
71	Tl, As, Pb, Sb	Sample: 0606407-02
72	Tl, As, Pb, Sb	Sample: bf62403-dup1
73	Tl, As, Pb, Sb	Sample: bf62403-ms3
74	Tl, As, Pb, Sb	Sample: bf62403-sd1 x5
75	Tl, As, Pb, Sb	Sample: 0606407-03
76	Tl, As, Pb, Sb	Sample: 0606407-01 dis
77	Tl, As, Pb, Sb	Sample: 0606407-02 dis
78	Tl, As, Pb, Sb	Sample: 0606407-03 dis
79	Pb	Sample: 0606386-01
80	Pb	Sample: 0606386-02
81	Pb	Sample: 0606386-03
82	Pb	Sample: 0606386-04
83	Pb	Sample: 0606386-05
84	Pb	Sample: 0606386-06
85	Pb	Sample: 0606386-07
86	Pb	Sample: 0606386-08
87	Pb	Sample: 0606386-09
88	Pb	Sample: 0606386-10
89	Pb	Sample: bf62613-dup1
90	Pb	Sample: bf62613-sd1 x5
91	Pb	Sample: 0606386-11
92	Pb	Sample: 0606386-12
93	Pb	Sample: 0606386-13
94	Pb	Sample: 0606386-14
95	Pb	Sample: 0606386-15
96	Pb	Sample: 0606386-16
97	Pb	Sample: 0606386-17
98	Pb	Sample: 0606386-18
99	Pb	Sample: 0606386-19
100	Pb	Sample: 0606386-20
101	Pb	Sample: bf62613-dup2
102	Pb	Sample: bf62613-sd2 x5
121	Tl, As, Pb, Sb	Stock Standard: 5.0 µg/L
124	Tl, As, Pb, Sb	Stock Standard: 10.0 µg/L
	Tl	STD 3: 10.0000 µg/L
	Tl	CCV: 10.0000 µg/L
126	Tl, As, Pb, Sb	Stock Standard: 25.0 µg/L
	As, Pb, Sb	STD 3: 25.0000 µg/L
	As, Pb, Sb	CCV: 25.0000 µg/L
129	As, Pb, Sb	Stock Standard: 50.0 µg/L
131	Tl, As, Pb, Sb	Recovery Stock: 50.0 µg/L
134	As, Pb, Sb	ICV: 25.0000 µg/L
136	Tl	Stock Standard: 2.0 µg/L
	As, Pb, Sb	CRA 2: 2.0000 µg/L
139	Tl	ICV: 10.0000 µg/L
141	Pb	Standard 0
	Pb	ICB/CCB: 0.0000 µg/L
	Pb	Diluent
146	Pb	Modifier 2
147	Tl, As, Sb	Modifier 1
148	Tl, As, Sb	Standard 0
	Tl, As, Sb	ICB/CCB: 0.0000 µg/L
	Tl, As, Sb	Diluent

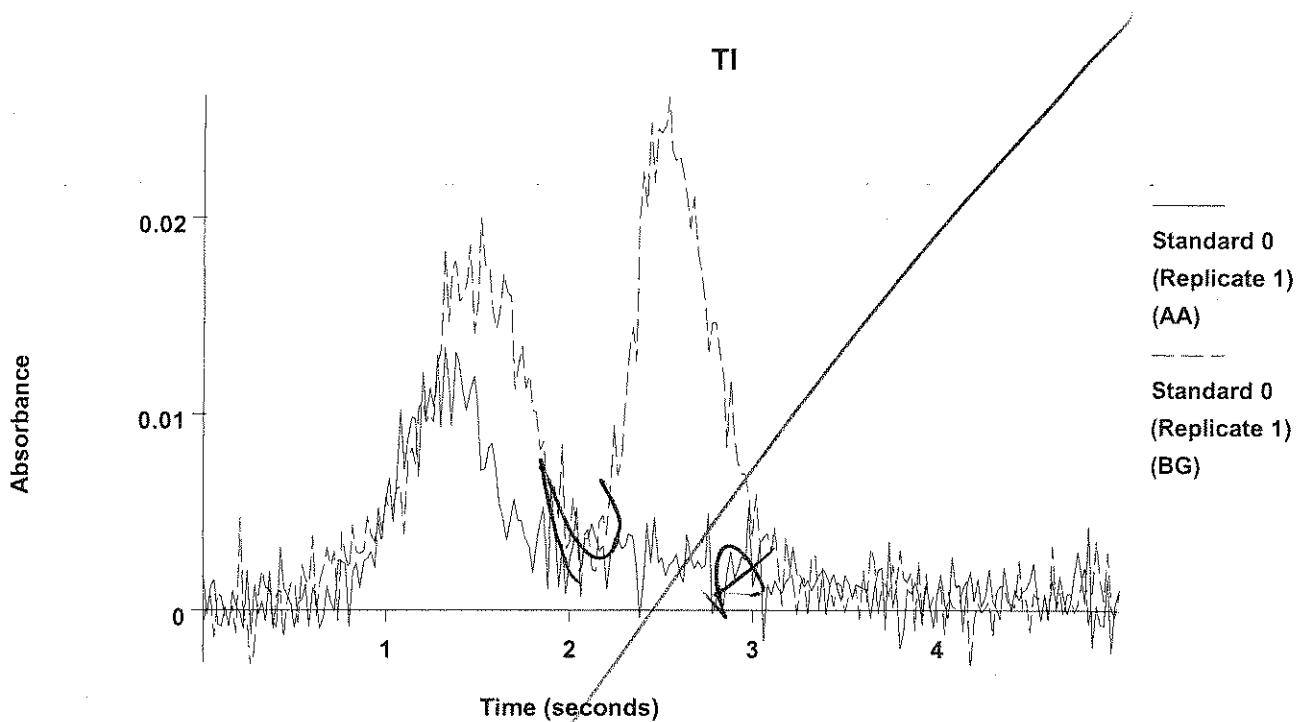
Method Name: Tl 2  
 Method Description: Tl 2  
 Element: Tl

Date: 06/26/2006  
 Technique: Furnace  
 Calibration Type:  
 Tl, Calc. Intercept : Linear  
 Wavelength: 276.8 nm  
 Energy: 100  
 Slit Width: 0.7  
 Lamp Current: 6 mA  
 Sample Info Name: 062606YA.SIF

Results Data Set Name: 062606yad

Element: Tl Seq. No.: 1 AS Loc.: 148 Date: 06/26/2006  
 Sample ID: Standard 0  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0127	0.0127	0.0134	0.0283	0.0262	12:25:51	Yes



2			0.0019	0.0019	0.0038	0.0012	0.0046	12:28:41	Yes
Mean:			0.0073						
SD :			0.0077						
%RSD:			104.91						

Auto-zero performed.

Element: Tl Seq. No.: 2 AS Loc.: 136 Date: 06/26/2006  
 Sample ID: Standard 2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 136

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			-0.0034	0.0040	0.0059	0.0002	0.0054	12:31:56	Yes





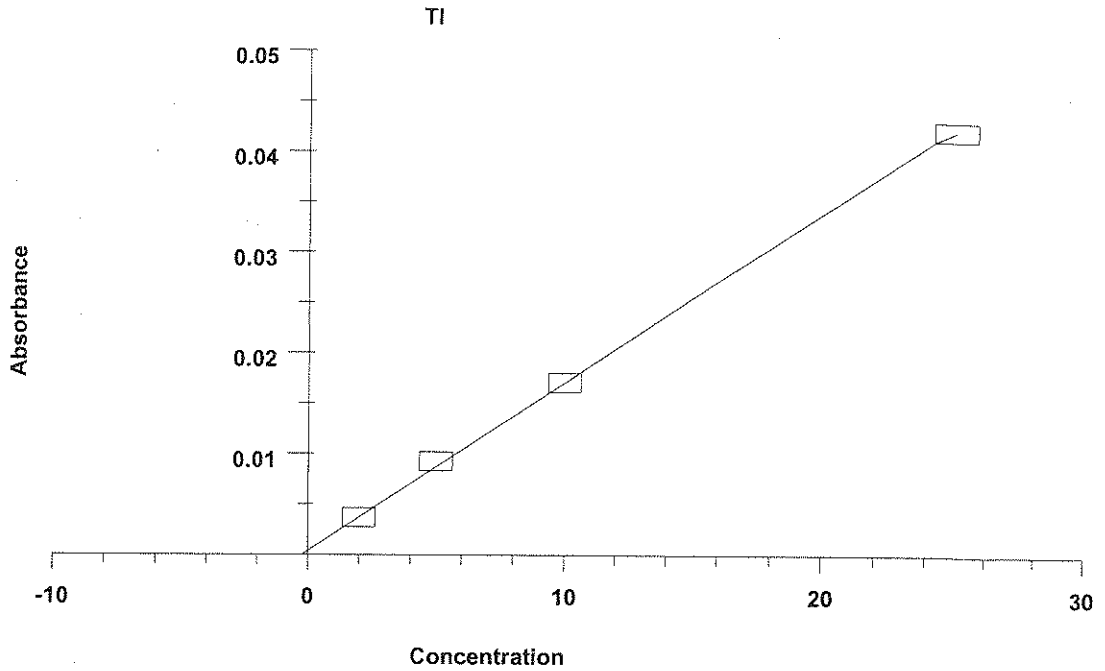






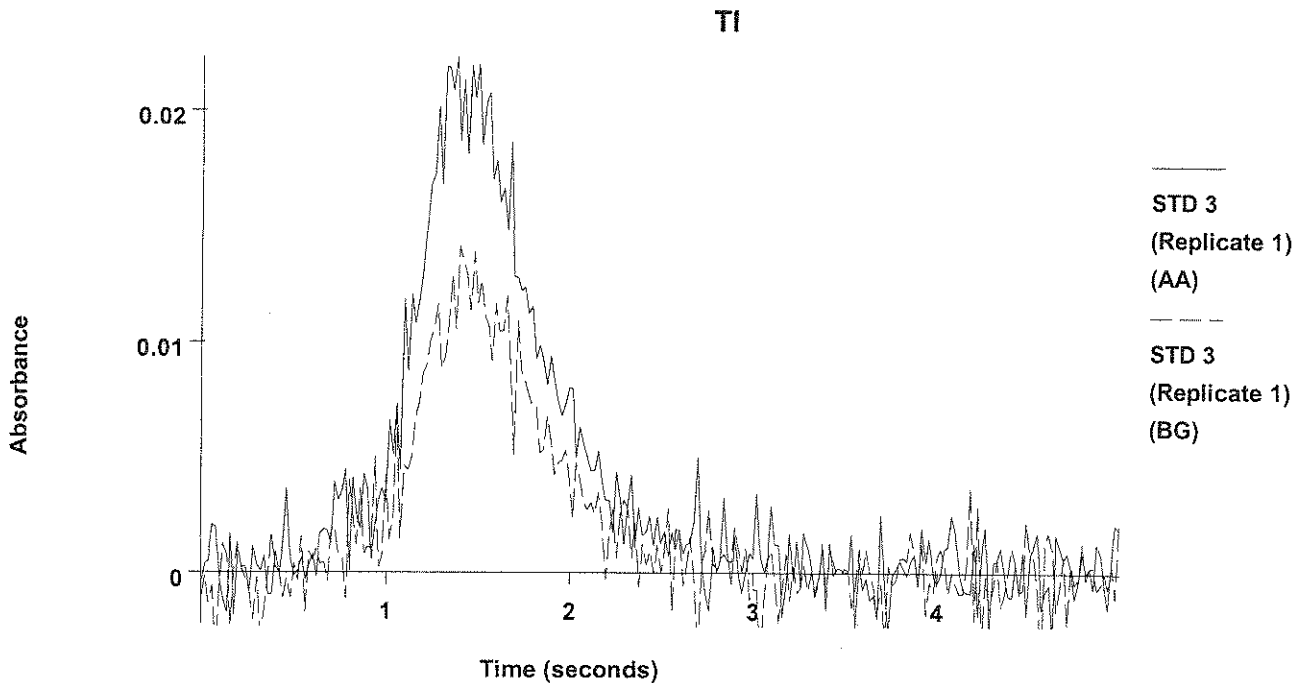






=====  
 Element: Tl    Seq. No.: 9    AS Loc.: 124    Date: 06/26/2006  
 Sample ID: STD 3  
 µL dispensed: 10 from 148, 5 from 147, 15 from 124  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	10.4	10.4	0.0177	0.0179	0.0223	0.0096	0.0141	01:15:09	Yes



2            9.8            9.8            0.0167            204            0.0224            0.0109            0.0144            01:18:02    Yes

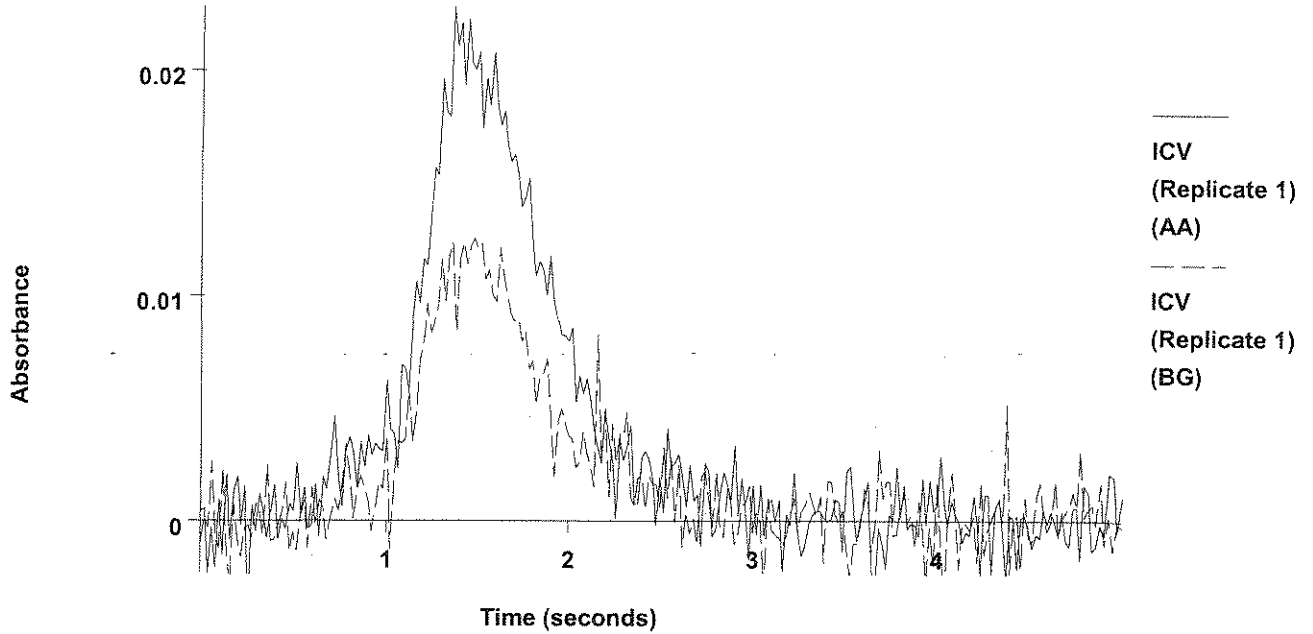
Mean: 10.1 10.1 0.0172  
 SD : 0.41 0.41 0.0007  
 %RSD: 4.04 4.04 3.95  
 QC value within specified limits.



=====  
 Element: Tl Seq. No.: 10 AS Loc.: 139 Date: 06/26/2006  
 Sample ID: ICV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 139  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	10.2	10.2	0.0175	0.0177	0.0228	0.0101	0.0126	01:20:52	Yes

Tl

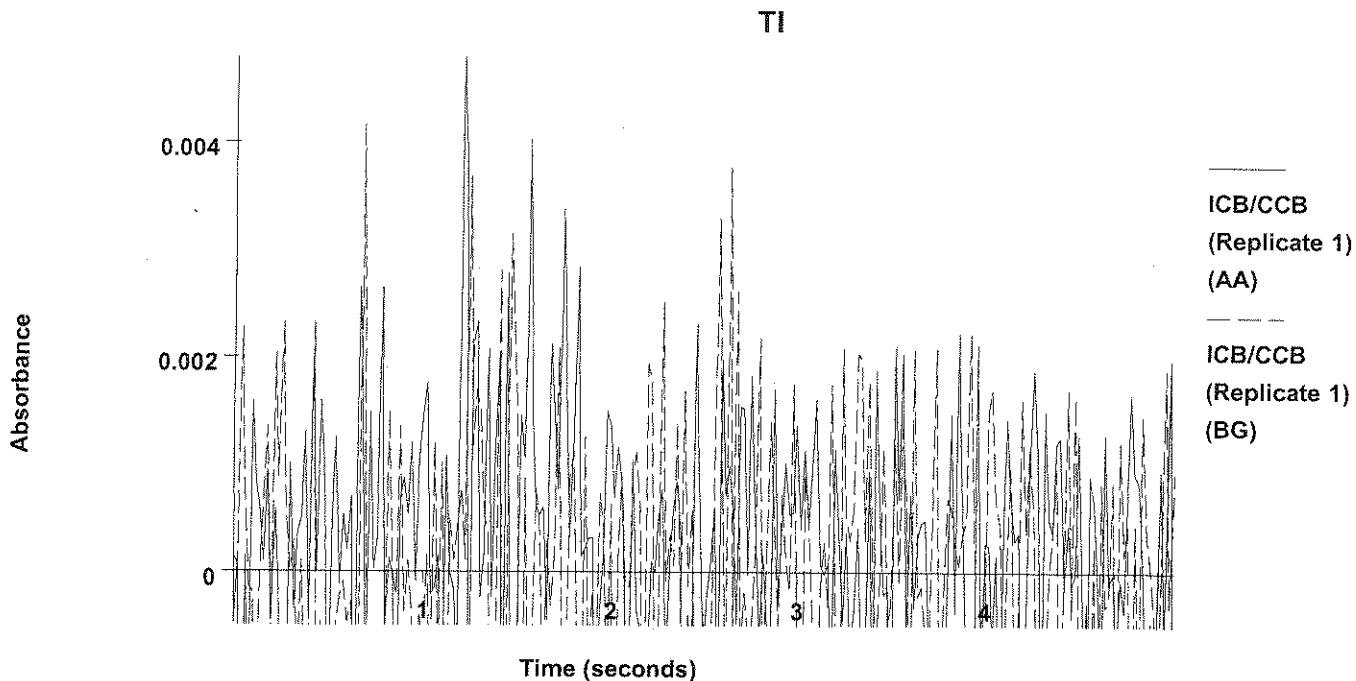


2 11.0 11.0 0.0188 0.0190 0.0245 0.0095 0.0167 01:23:42 Yes  
 Mean: 10.6 10.6 0.0181  
 SD : 0.54 0.54 0.0009  
 %RSD: 5.10 5.10 4.99  
 QC value within specified limits.



=====  
 Element: Tl Seq. No.: 11 AS Loc.: 148 Date: 06/26/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	0.0012	0.0014	0.0048	0.0003	0.0042	01:26:32	Yes



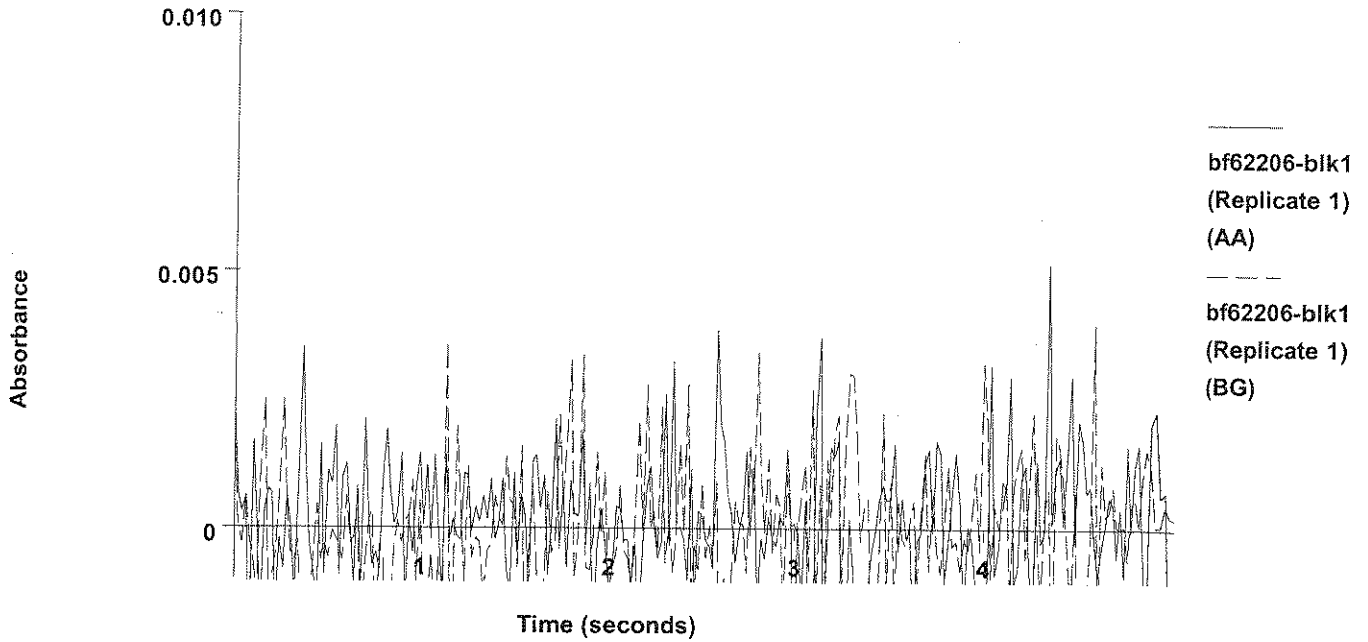
2	0.9	0.9	0.0019	0.0021	0.0032	-0.0003	0.0045	01:29:23	Yes
Mean:	0.7	0.7	0.0015						
SD :	0.30	0.30	0.0005						
%RSD:	42.03	42.03	32.08						

QC value within specified limits.

=====  
 Element: Tl    Seq. No.: 12    AS Loc.: 2    Date: 06/26/2006  
 Sample ID: bf62206-blk1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 2  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0007	0.0009	0.0052	0.0002	0.0040	01:32:12	Yes

TI

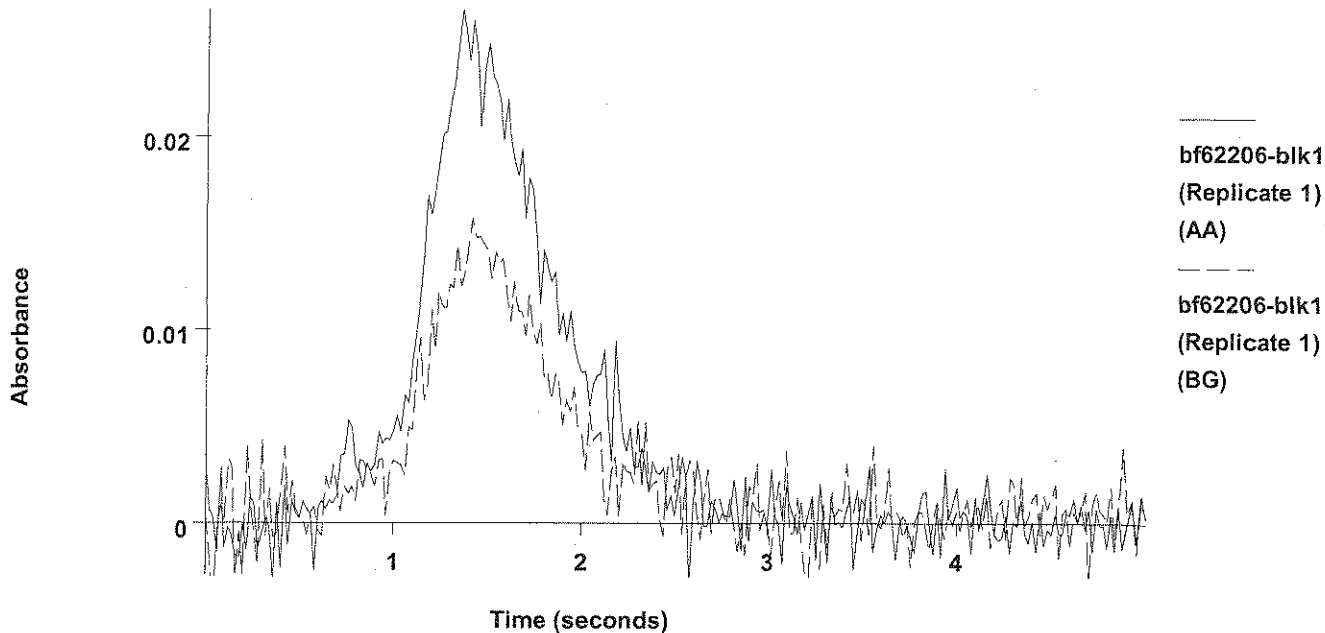


2	0.0	0.0	0.0003	0.0005	0.0026	0.0003	0.0038	01:35:02	Yes
Mean:	0.1	0.1	0.0005						
SD :	0.15	0.15	0.0002						
%RSD:	164.1	164.1	48.06						

=====  
 Element: Tl    Seq. No.: 13    AS Loc.: 2    Date: 06/26/2006  
 Sample ID: bf62206-blk1  
 µL dispensed: 7 from 148, 5 from 147, 3 from 131, 15 from 2  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	11.9	11.9	0.0203	0.0205	0.0265	0.0134	0.0158	01:38:01	Yes

Tl



2	11.4	11.4	0.0195	0.0197	0.0254	0.0117	0.0166	01:41:00	Yes
Mean:	11.7	11.7	0.0199						
SD :	0.34	0.34	0.0006						
%RSD:	2.93	2.93	2.88						

Recovery for Tl = 116.7 %, greater than upper limit 115 %

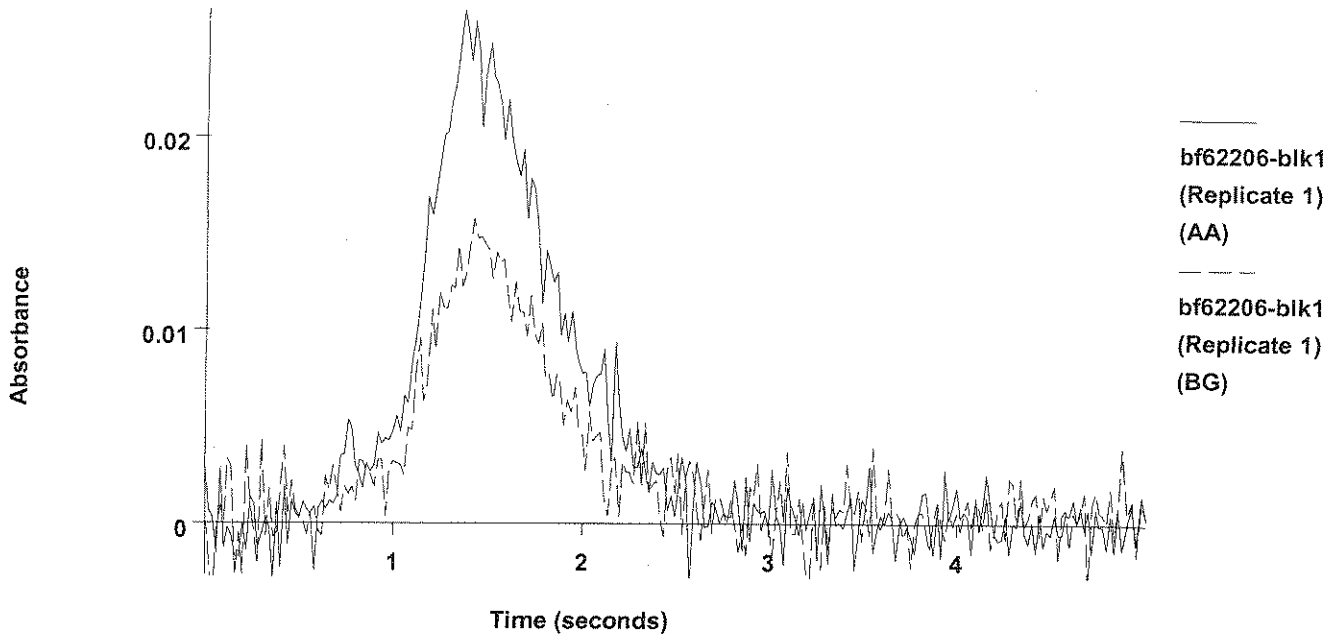
*high*

=====  
 Element: Tl    Seq. No.: 14    AS Loc.: 2    Date: 06/26/2006  
 Sample ID: bf62206-blk1  
 µL dispensed: 20 from 148, 5 from 147, 5 from 2

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	1.3	0.4	0.0011	0.0013	0.0038	0.0010	0.0041	01:43:50	Yes



Tl



2	11.4	11.4	0.0195	0.0197	0.0254	0.0117	0.0166	01:41:00	Yes
Mean:	11.7	11.7	0.0199						
SD :	0.34	0.34	0.0006						
%RSD:	2.93	2.93	2.88						

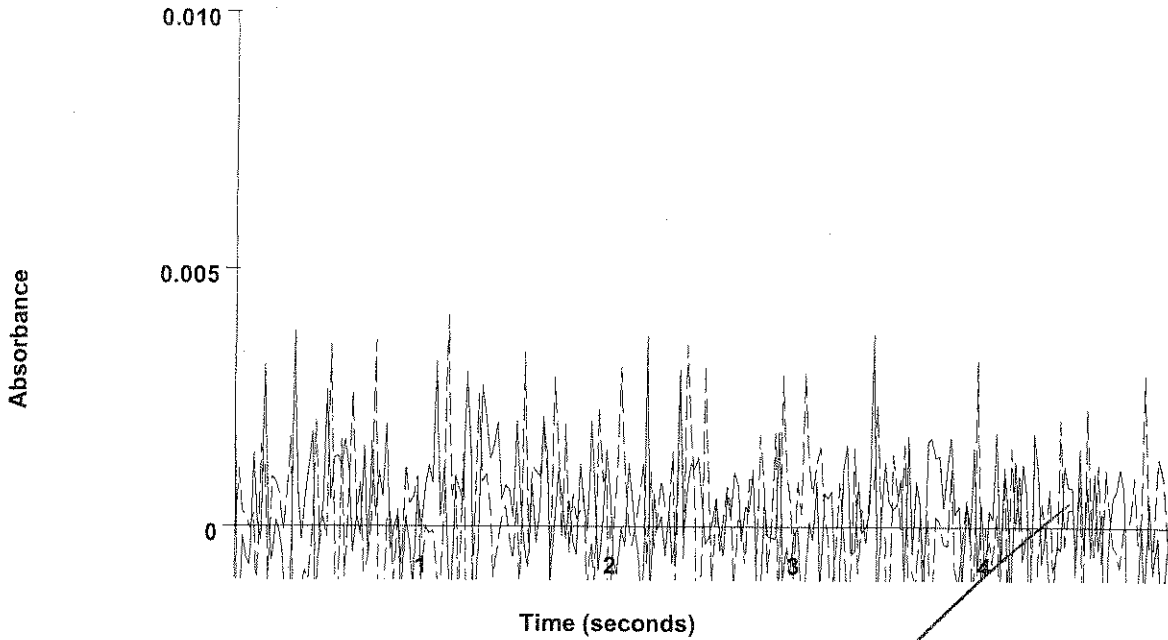
Recovery for Tl = 116.7 %, greater than upper limit 115 %

*high*

=====  
 Element: Tl    Seq. No.: 14    AS Loc.: 2    Date: 06/26/2006  
 Sample ID: bf62206-blk1  
 µL dispensed: 20 from 148, 5 from 147, 5 from 2  
 =====

Repl #	Sample Conc µg/L	Stdnd Conc µg/L	Blnk Corr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.3	0.4	0.0011	0.0013	0.0038	0.0010	0.0041	01:43:50	Yes

TI



bf62206-blk1  
(Replicate 1)  
(AA)

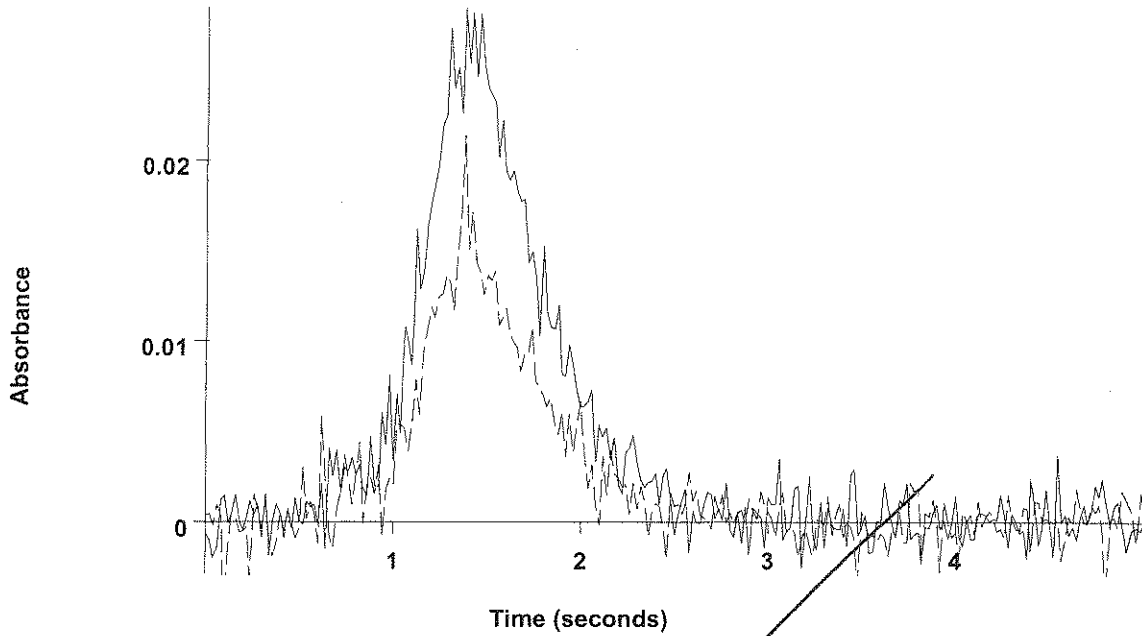
bf62206-blk1  
(Replicate 1)  
(BG)

2	-0.2	-0.1	0.0002	0.0004	0.0041	0.0016	0.0055	01:46:41	Yes
Mean:	0.5	0.2	0.0007						
SD :	1.04	0.35	0.0006						
%RSD:	202.5	202.5	89.26						

=====  
 Element: Tl    Seq. No.: 15    AS Loc.: 2    Date: 06/26/2006  
 Sample ID: bf62206-blk1  
 µL dispensed: 17 from 148, 5 from 147, 3 from 131, 5 from 2  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	35.8	11.9	0.0203	0.0205	0.0284	0.0113	0.0214	01:49:40	Yes

TI



-----  
 bf62206-blk1  
 (Replicate 1)  
 (AA)

-----  
 bf62206-blk1  
 (Replicate 1)  
 (BG)

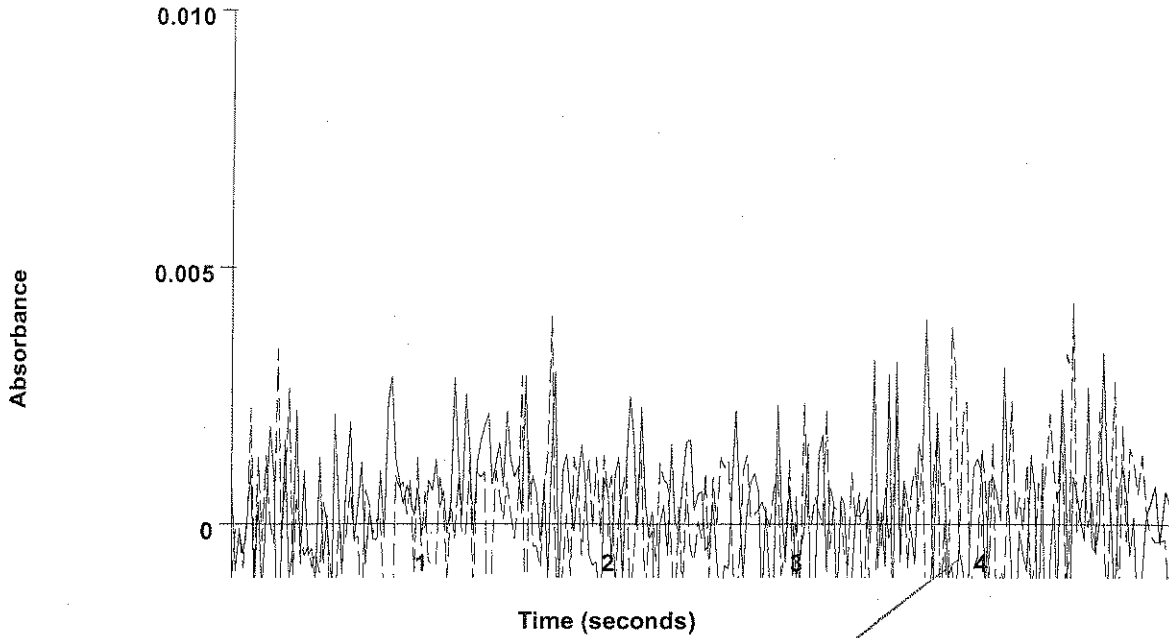
2	37.4	12.5	0.0212	0.0214	0.0290	0.0143	0.0176	01:52:39	Yes
Mean:	36.6	12.2	0.0207						
SD :	1.17	0.39	0.0007						
%RSD:	3.21	3.21	3.15						

Recovery for Tl = 122.0 %, greater than upper limit 115 %

=====  
 Element: Tl    Seq. No.: 16    AS Loc.: 2    Date: 06/26/2006  
 Sample ID: bf62206-blk1  
 µL dispensed: 22 from 148, 5 from 147, 3 from 2

Repl #	SampleConc µg/L	StdndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.9	0.6	0.0013	0.0015	0.0040	0.0007	0.0043	01:55:28	Yes

TI



-----  
 bf62206-blk1  
 (Replicate 1)  
 (AA)

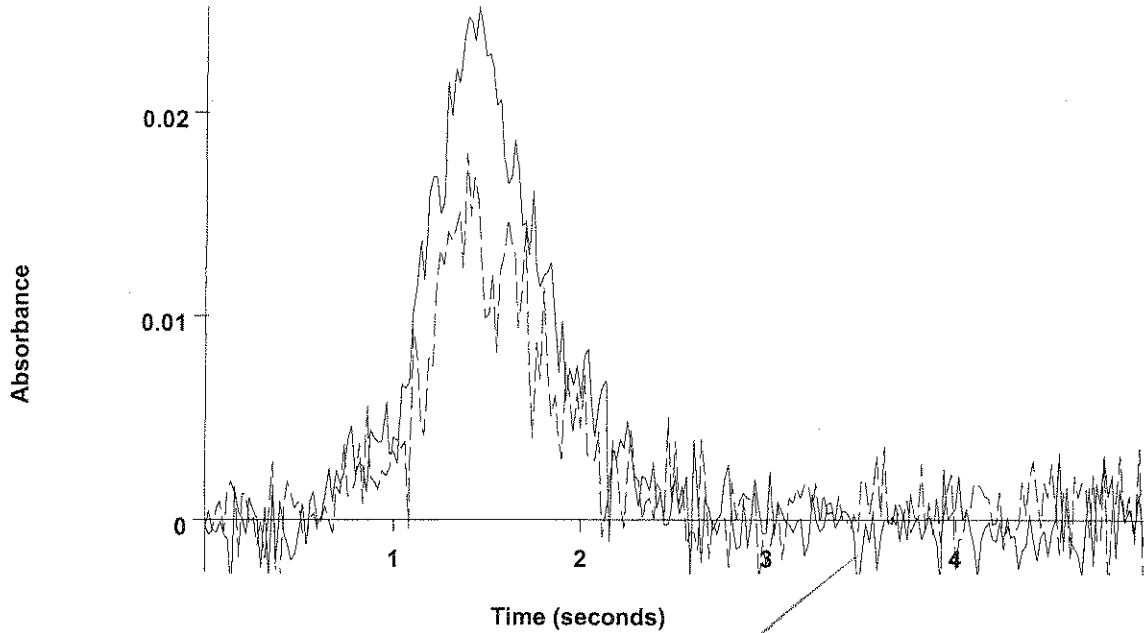
-----  
 bf62206-blk1  
 (Replicate 1)  
 (BG)

2	1.3	0.3	0.0008	0.0010	0.0039	0.0004	0.0053	01:58:18	Yes
Mean:	2.1	0.4	0.0011						
SD :	1.14	0.23	0.0004						
%RSD:	54.71	54.71	35.93						

=====  
 Element: Tl    Seq. No.: 17    AS Lod. 2    Date: 06/26/2006  
 Sample ID: bf62206-blk1  
 µL dispensed: 19 from 148, 5 from 147, 3 from 131, 3 from 2  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	49.9	10.0	0.0170	0.0172	0.0252	0.0124	0.0180	02:01:16	Yes

TI



bf62206-blk1  
(Replicate 1)  
(AA)

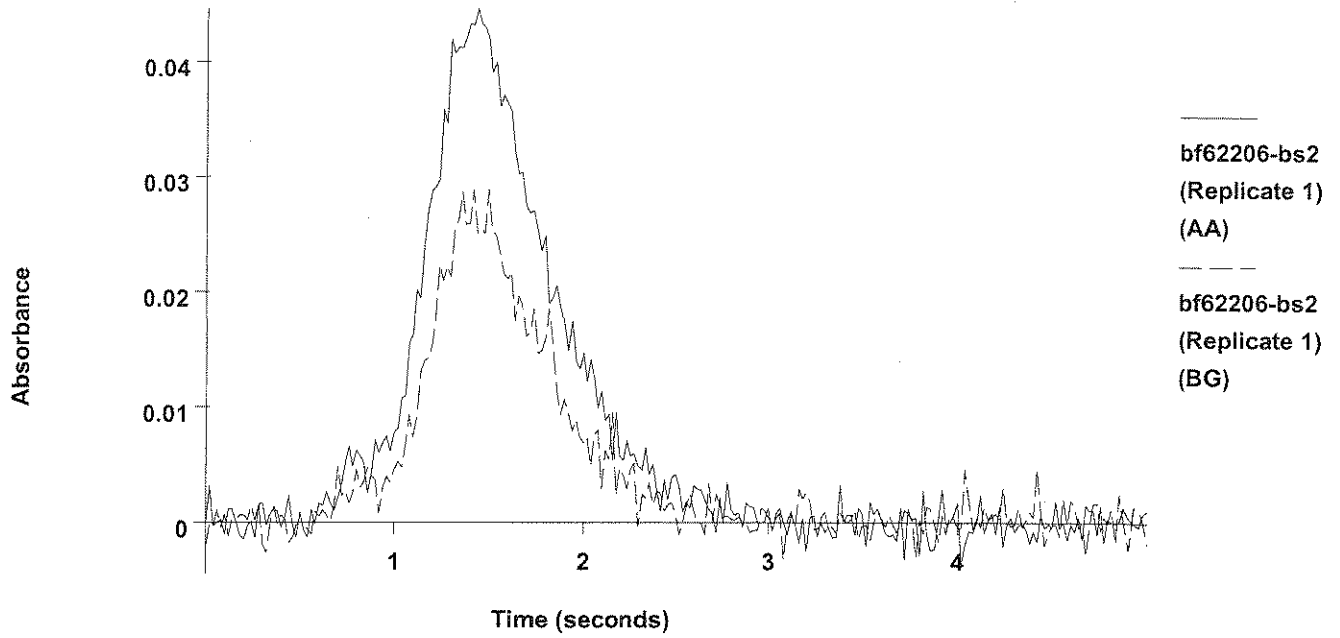
bf62206-blk1  
(Replicate 1)  
(BG)

2            53.3        10.7        0.0182    0.0184    0.0248    0.0115    0.0150    02:04:15   Yes  
 Mean:       51.6        10.3        0.0176  
 SD :        2.39        0.48        0.0008  
 %RSD:      4.62        4.62        4.53  
 Recovery for Tl = 103.2 % within 85 % to 115 %

=====  
 Element: Tl    Seq. No.: 18        AS Loc.: 3    Date: 06/26/2006  
 Sample ID: bf62206-bs2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 3  
 -----

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.1	20.1	0.0340	0.0342	0.0446	0.0210	0.0289	02:07:05	Yes

Tl

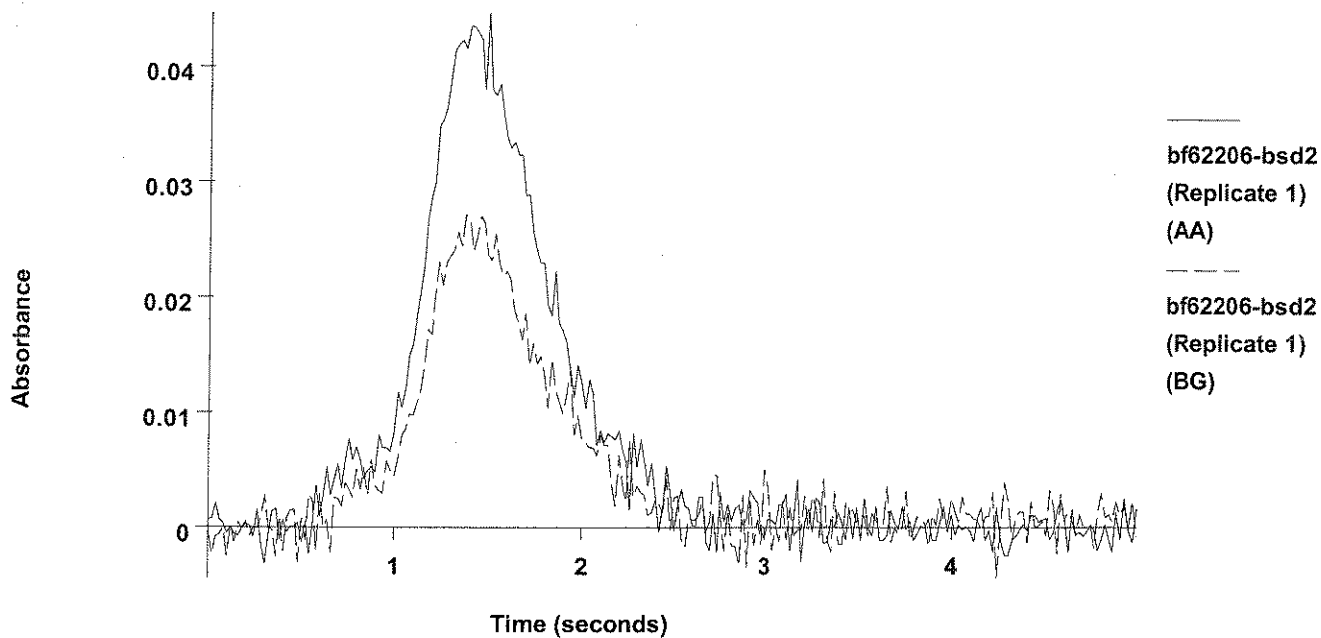


2.	20.4	20.4	0.0344	0.0346	0.0440	0.0210	-0.0277	02:09:56	Yes
Mean:	20.3	20.3	0.0342						
SD :	0.18	0.18	0.0003						
%RSD:	0.91	0.91	0.90						

=====  
 Element: Tl    Seq. No.: 19    AS Loc.: 4    Date: 06/26/2006  
 Sample ID: bf62206-bsd2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 4  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.2	20.2	0.0342	0.0344	0.0447	0.0223	0.0271	02:12:46	Yes

T1

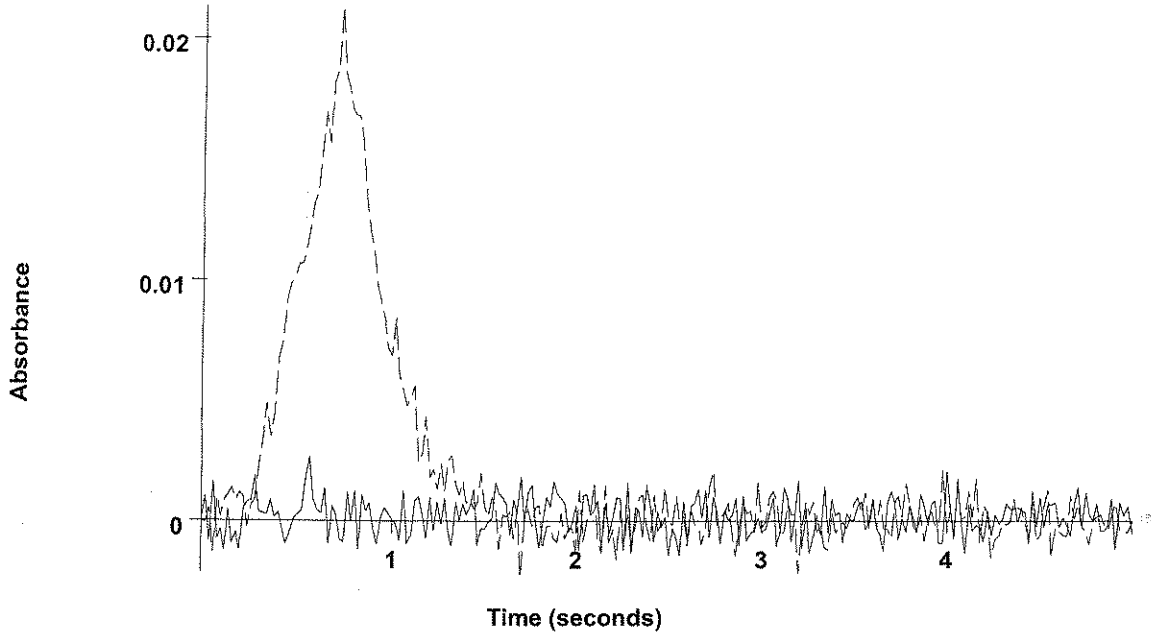


2	20.5	20.5	0.0347	0.0349	0.0462	0.0219	0.0282	02:15:38	Yes
Mean:	20.4	20.4	0.0344						
SD :	0.21	0.21	0.0003						
%RSD:	1.02	1.02	1.01						

=====  
 Element: T1    Seq. No.: 20    AS Loc.: 5    Date: 06/26/2006  
 Sample ID: 0606346-01  
 µL dispensed: 10 from 148, 5 from 147, 15 from 5  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0008	0.0010	0.0027	0.0101	0.0213	02:18:28	Yes

TI



0606346-01  
(Replicate 1)  
(AA)  
0606346-01  
(Replicate 1)  
(BG)

2	0.0	0.0	0.0003	0.0005	0.0020	0.0085	0.0219	02:21:18	Yes
Mean:	0.1	0.1	0.0006						
SD :	0.19	0.19	0.0003						
%RSD:	169.1	169.1	57.40						

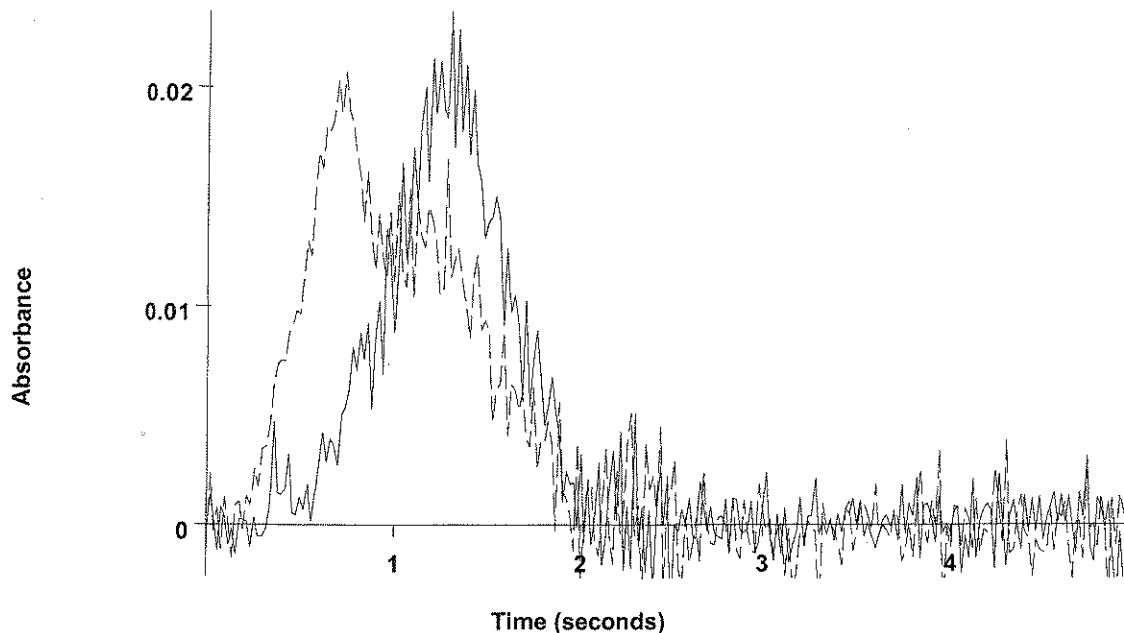
*Handwritten initials*

=====  
Element: Tl    Seq. No.: 21    AS Loc.: 5    Date: 06/26/2006  
Sample ID: 0606346-01  
µL dispensed: 7 from 148, 5 from 147, 3 from 131, 15 from 5  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	9.2	9.2	0.0157	0.0159	0.0235	0.0173	0.0207	02:24:17	Yes



TI



0606346-01  
(Replicate 1)  
(AA)  
-----  
0606346-01  
(Replicate 1)  
(BG)

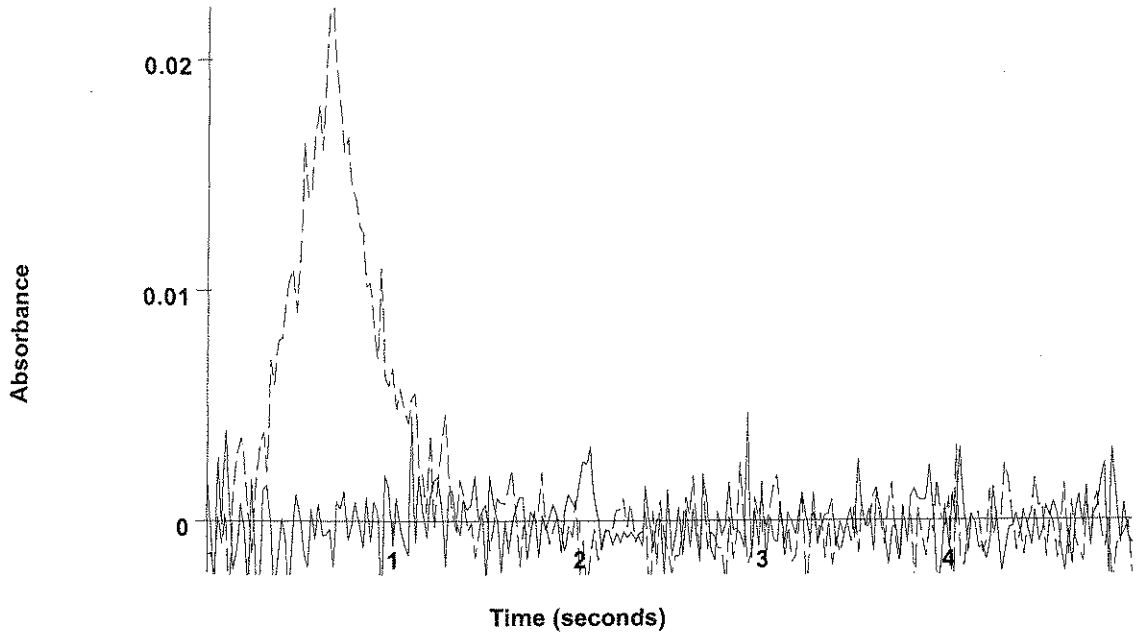
2	10.8	10.8	0.0184	0.0186	0.0263	0.0221	0.0260	02:27:16	Yes
Mean:	10.0	10.0	0.0170						
SD :	1.17	1.17	0.0020						
%RSD:	11.70	11.70	11.45						

Recovery for Tl = 99.8 % within 85 % to 115 %

=====  
Element: Tl    Seq. No.: 22    AS Loc.: 6    Date: 06/26/2006  
Sample ID: bf62206-dup1  
µL dispensed: 10 from 148, 5 from 147, 15 from 6  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0004	-0.0002	0.0047	0.0087	0.0223	02:30:07	Yes

TI



-----  
 bf62206-dup1  
 (Replicate 1)  
 (AA)  
 -----  
 bf62206-dup1  
 (Replicate 1)  
 (BG)

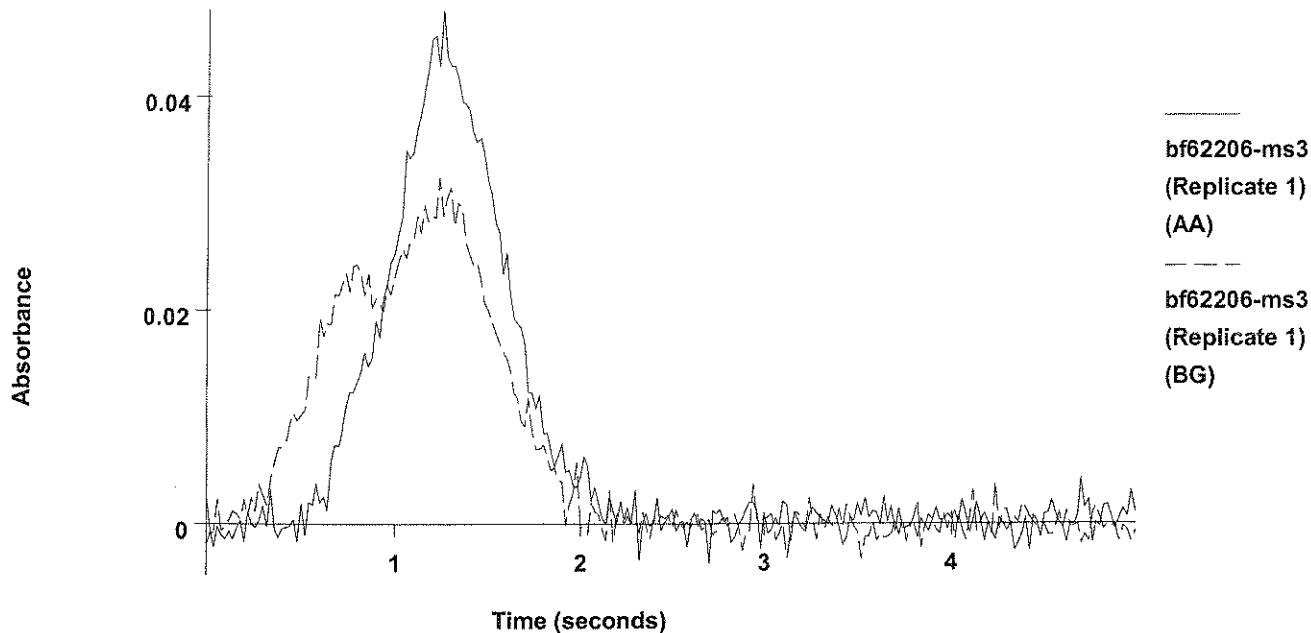
2	0.2	0.2	0.0007	0.0009	0.0037	0.0081	0.0194	02:32:57	Yes
Mean:	-0.1	-0.1	0.0001						
SD :	0.45	0.45	0.0007						
%RSD:	311.0	311.0	598.96						



=====  
 Element: Tl    Seq. No.: 23    AS Loc.: 7    Date: 06/26/2006  
 Sample ID: bf62206-ms3  
 µL dispensed: 10 from 148, 5 from 147, 15 from 7  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.5	19.5	0.0330	0.0332	0.0482	0.0297	0.0324	02:35:47	Yes

TI



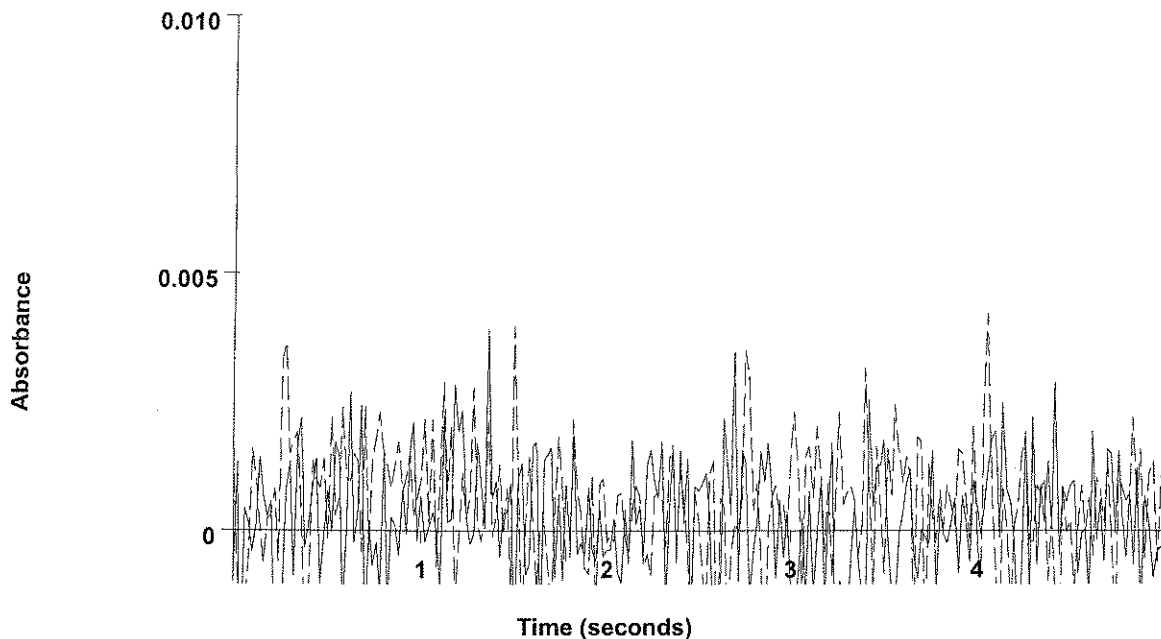
2	18.5	18.5	0.0312	0.0314	0.0424	0.0283	0.0286	02:38:38	Yes
Mean:	19.0	19.0	0.0321						
SD :	0.74	0.74	0.0012						
%RSD:	3.90	3.90	3.86						

955

=====  
 Element: Tl    Seq. No.: 24    AS Loc.: 8    Date: 06/26/2006  
 Sample ID: bf62206-sd1 x5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 8  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0010	0.0012	0.0039	0.0026	0.0042	02:41:29	Yes

Tl



-----  
 bf62206-sd1 x5  
 (Replicate 1)  
 (AA)  
 -----  
 bf62206-sd1 x5  
 (Replicate 1)  
 (BG)

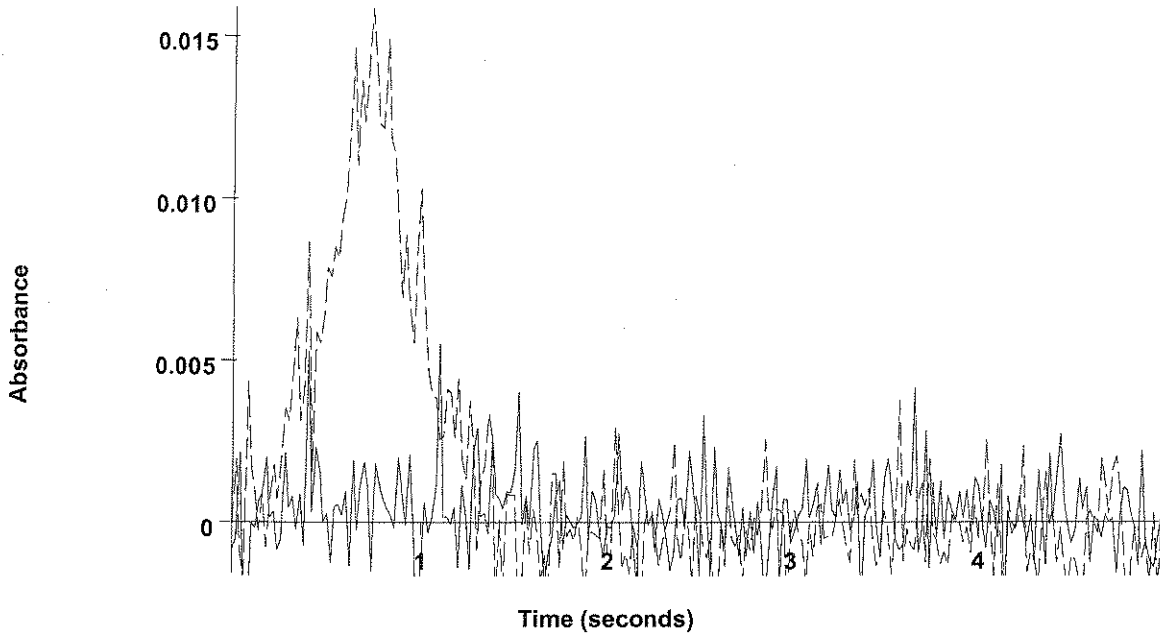
2	-0.4	-0.4	-0.0003	-0.0001	0.0044	0.0019	0.0044	02:44:20	Yes
Mean:	0.0	0.0	0.0004						
SD :	0.59	0.59	0.0010						
%RSD:	10320	10320	275.79						

*M*

=====  
 Element: Tl    Seq. No.: 25    AS Loc.: 9    Date: 06/26/2006  
 Sample ID: 0606346-02  
 µL dispensed: 10 from 148, 5 from 147, 15 from 9  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.7	0.7	0.0015	0.0017	0.0055	0.0069	0.0159	02:47:12	Yes

TI



0606346-02  
(Replicate 1)  
(AA)

0606346-02  
(Replicate 1)  
(BG)

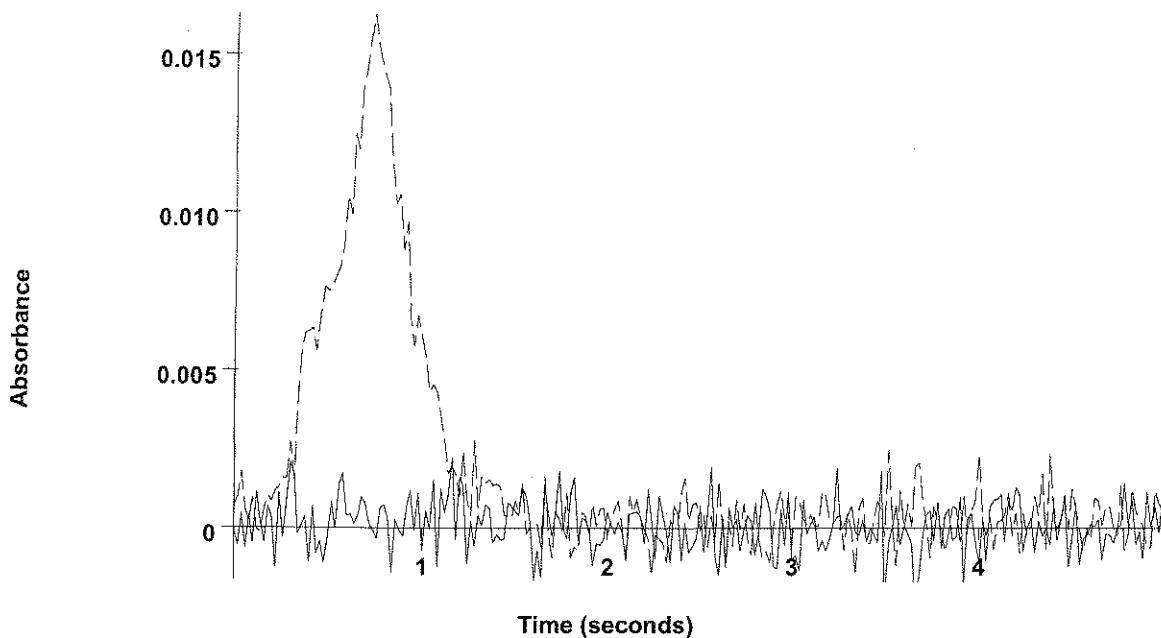
2	0.5	0.5	0.0012	0.0014	0.0058	0.0076	0.0178	02:50:07	Yes
Mean:	0.6	0.6	0.0013						
SD :	0.15	0.15	0.0003						
%RSD:	26.08	26.08	18.99						

*Handwritten signature or initials*

=====  
 Element: Tl    Seq. No.: 26    AS Loc.: 10    Date: 06/26/2006  
 Sample ID: 0606346-03  
 µL dispensed: 10 from 148, 5 from 147, 15 from 10  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	0.0003	0.0005	0.0022	0.0088	0.0163	02:52:58	Yes

TI



0606346-03  
(Replicate 1)  
(AA)

0606346-03  
(Replicate 1)  
(BG)

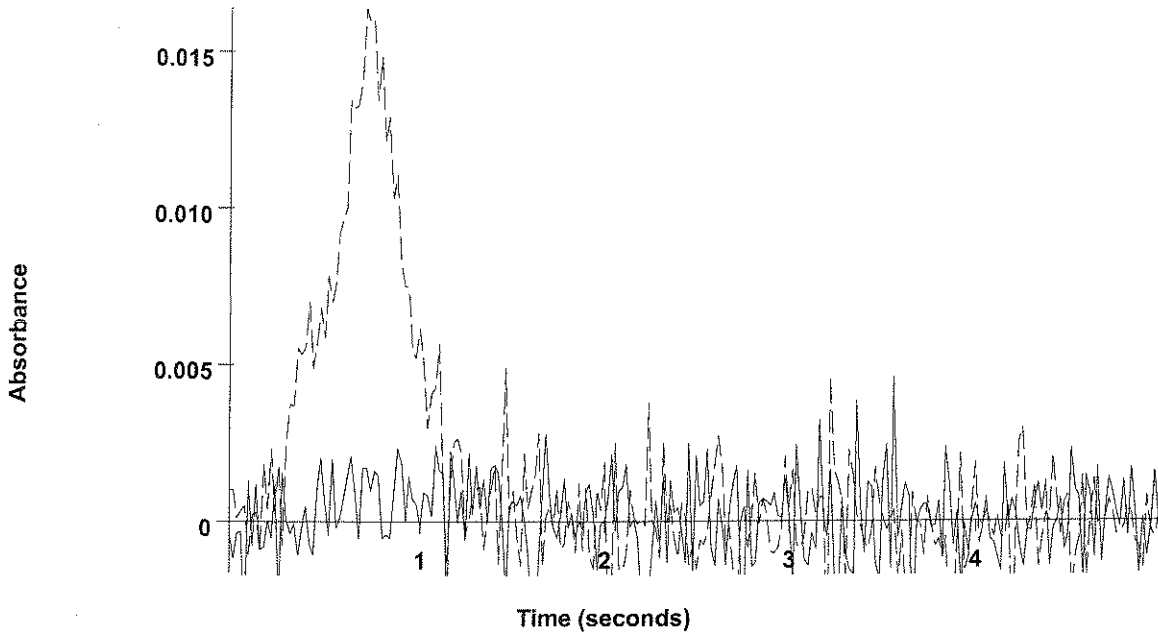
2	-0.2	-0.2	0.0000	0.0002	0.0047	0.0085	0.0192	02:55:50	Yes
Mean:	-0.1	-0.1	0.0001						
SD :	0.11	0.11	0.0002						
%RSD:	79.92	79.92	137.07						

*Handwritten signature*

=====  
 Element: T1    Seq. No.: 27    AS Loc.: 11    Date: 06/26/2006  
 Sample ID: 0606346-05  
 µL dispensed: 10 from 148, 5 from 147, 15 from 11

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0006	0.0008	0.0046	0.0074	0.0164	02:58:40	Yes

Tl



0606346-05  
(Replicate 1)  
(AA)

0606346-05  
(Replicate 1)  
(BG)

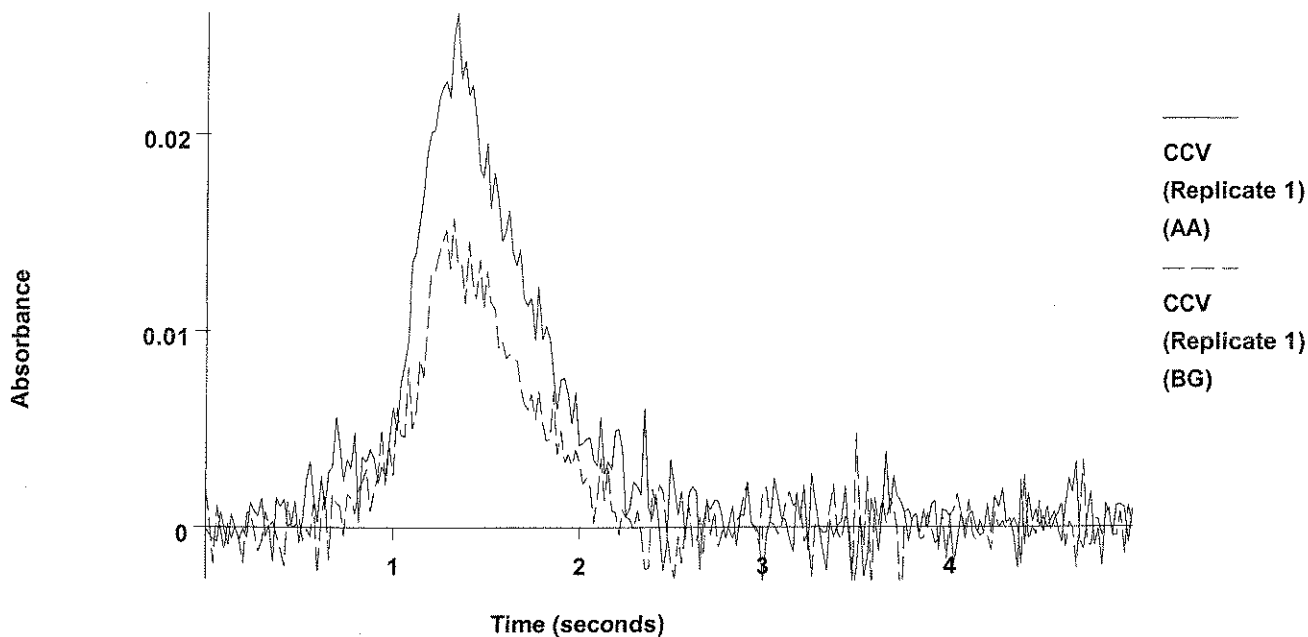
2	0.9	0.9	0.0018	0.0020	0.0047	0.0056	0.0183	03:01:30	Yes
Mean:	0.5	0.5	0.0012						
SD :	0.51	0.51	0.0009						
%RSD:	97.07	97.07	68.60						

*Handwritten mark*

=====  
 Element: Tl    Seq. No.: 28    AS Loc.: 124    Date: 06/26/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	10.7	10.7	0.0183	0.0185	0.0262	0.0101	0.0158	03:04:21	Yes

Tl



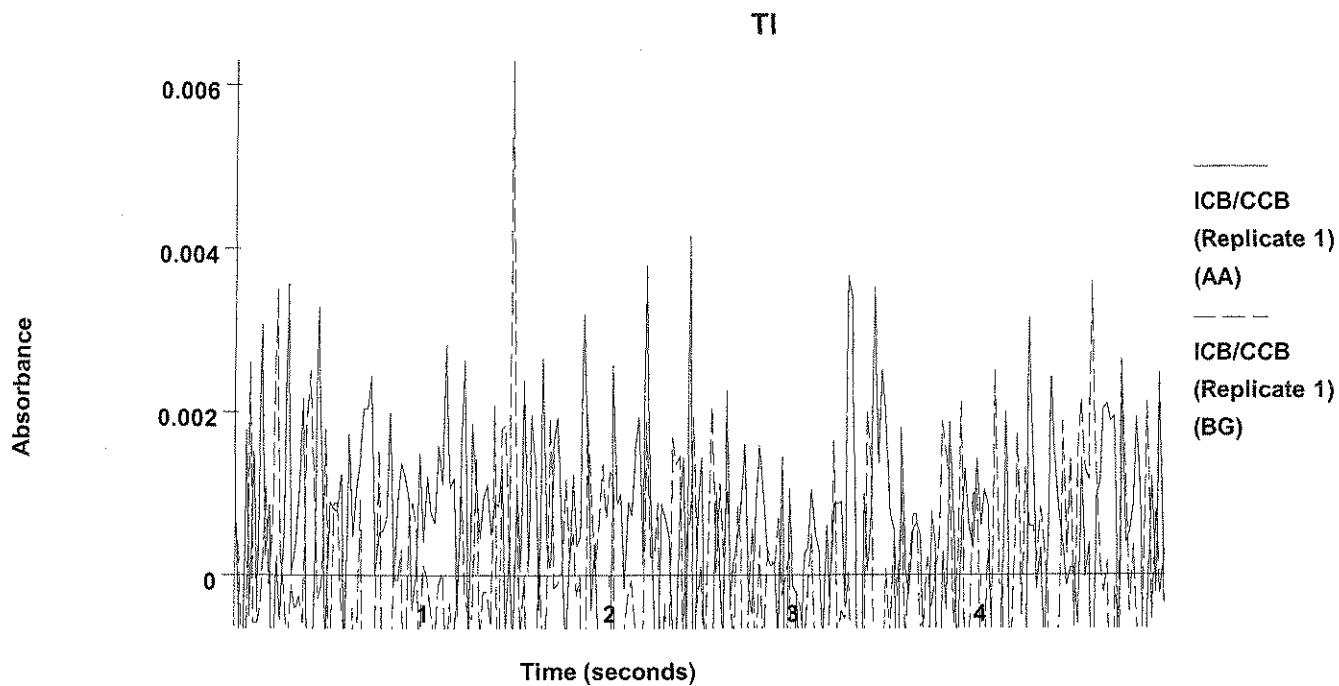
2	10.1	10.1	0.0172	0.0174	0.0256	0.0106	0.0155	03:07:12	Yes
Mean:	10.4	10.4	0.0178						
SD :	0.46	0.46	0.0008						
%RSD:	4.43	4.43	4.34						

QC value within specified limits. ✓

=====  
 Element: Tl    Seq. No.: 29    AS Loc.: 148    Date: 06/26/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.2	1.2	0.0024	0.0026	0.0042	-0.0001	0.0063	03:10:02	Yes





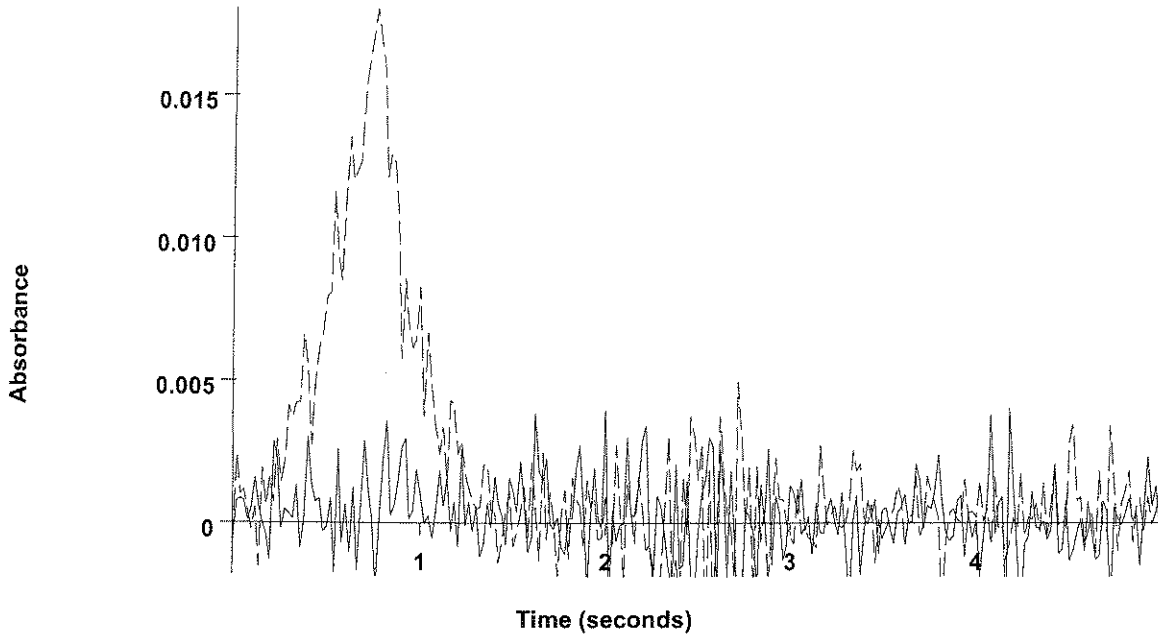
2	-0.3	-0.3	-0.0002	0.0000	0.0027	-0.0009	0.0044	03:12:52	Yes
Mean:	0.4	0.4	0.0011						
SD :	1.08	1.08	0.0018						
%RSD:	243.6	243.6	163.02						

QC value within specified limits. ✓

=====  
 Element: Tl    Seq. No.: 30    AS Loc.: 12    Date: 06/26/2006  
 Sample ID: 0606346-06  
 µL dispensed: 10 from 148, 5 from 147, 15 from 12  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	0.0013	0.0015	0.0040	0.0094	0.0180	03:15:42	Yes

TI



0606346-06  
 (Replicate 1)  
 (AA)  
 0606346-06  
 (Replicate 1)  
 (BG)

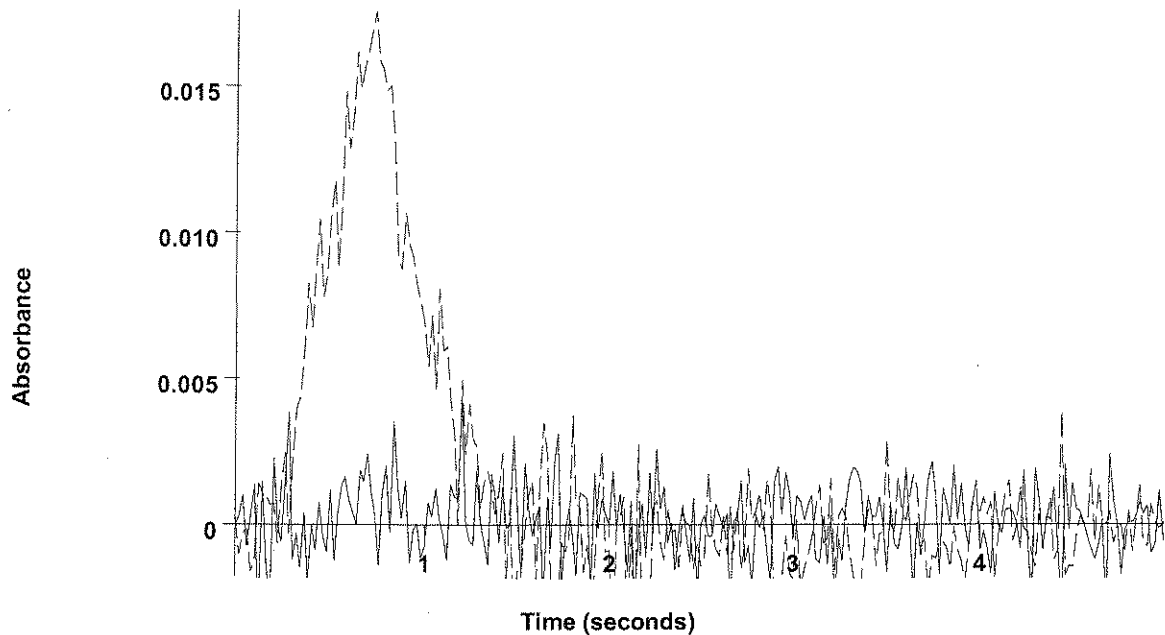
2	-0.3	-0.3	-0.0001	0.0001	0.0022	0.0080	0.0185	03:18:32	Yes
Mean:	0.1	0.1	0.0006						
SD :	0.57	0.57	0.0009						
%RSD:	418.5	418.5	160.36						

*Handwritten mark*

=====  
 Element: Tl    Seq. No.: 31    AS Loc.: 13    Date: 06/26/2006  
 Sample ID: 0606346-07  
 µL dispensed: 10 from 148, 5 from 147, 15 from 13  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0006	0.0008	0.0043	0.0083	0.0176	03:21:23	Yes

Tl



0606346-07  
(Replicate 1)  
(AA)

0606346-07  
(Replicate 1)  
(BG)

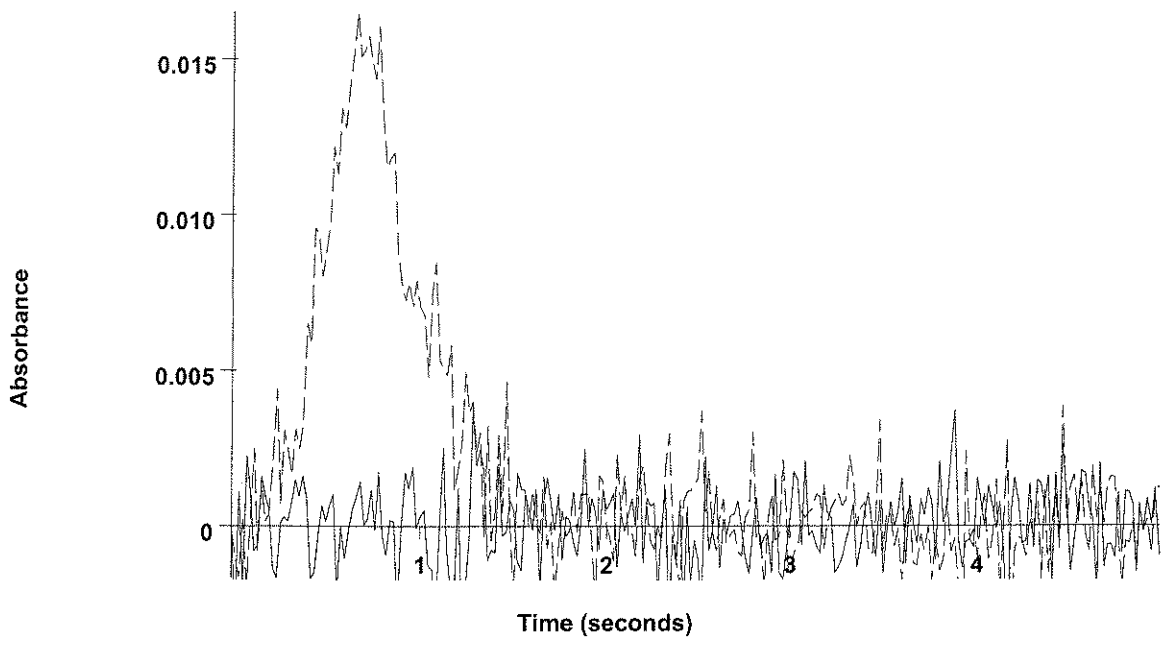
2	-0.6	-0.6	-0.0007	-0.0005	0.0030	0.0093	0.0218	03:24:14	Yes
Mean:	-0.3	-0.3	-0.0001						
SD :	0.56	0.56	0.0009						
%RSD:	219.0	219.0	1520.05						

*P*

=====  
 Element: Tl    Seq. No.: 32    AS Loc.: 14    Date: 06/26/2006  
 Sample ID: 0606346-08  
 µL dispensed: 10 from 148, 5 from 147, 15 from 14  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	0.0002	0.0004	0.0038	0.0096	0.0165	03:27:04	Yes

TI



-----  
 0606346-08  
 (Replicate 1)  
 (AA)  
 -----  
 0606346-08  
 (Replicate 1)  
 (BG)

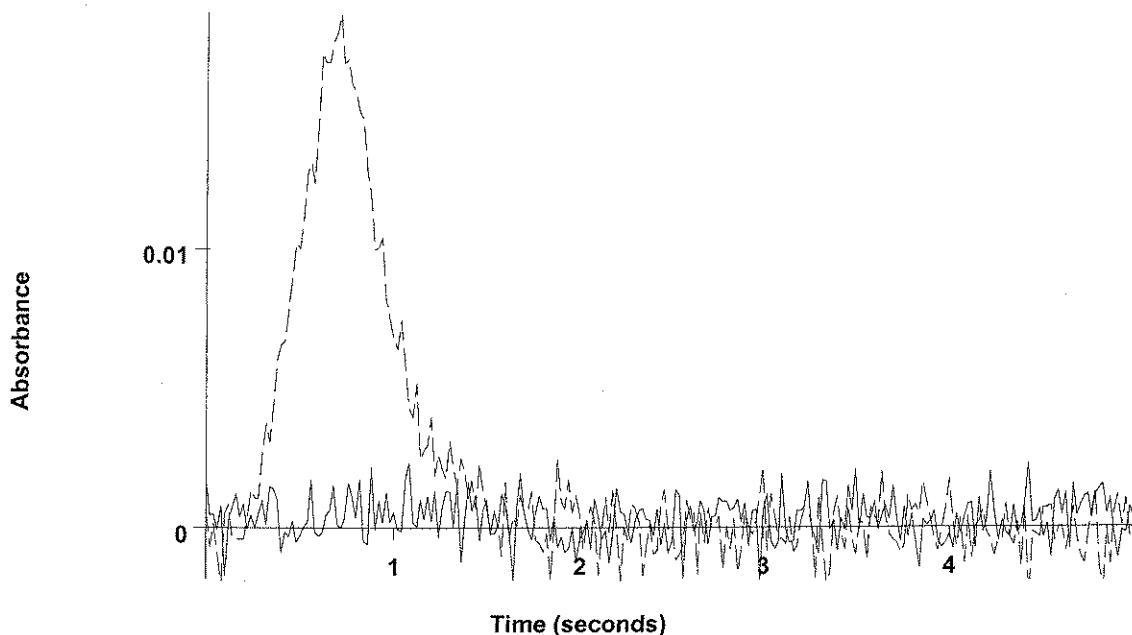
2	0.1	0.1	0.0005	0.0007	0.0022	0.0098	0.0190	03:29:54	Yes
Mean:	0.0	0.0	0.0004						
SD :	0.13	0.13	0.0002						
%RSD:	725.3	725.3	53.39						

*Handwritten mark resembling a stylized 'B' or 'P'.*

=====  
 Element: Tl    Seq. No.: 33    AS Loc.: 15    Date: 06/26/2006  
 Sample ID: 0606346-09  
 µL dispensed: 10 from 148, 5 from 147, 15 from 15  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.7	0.7	0.0015	0.0017	0.0024	0.0096	0.0184	03:32:44	Yes

TI



0606346-09  
(Replicate 1)  
(AA)

0606346-09  
(Replicate 1)  
(BG)

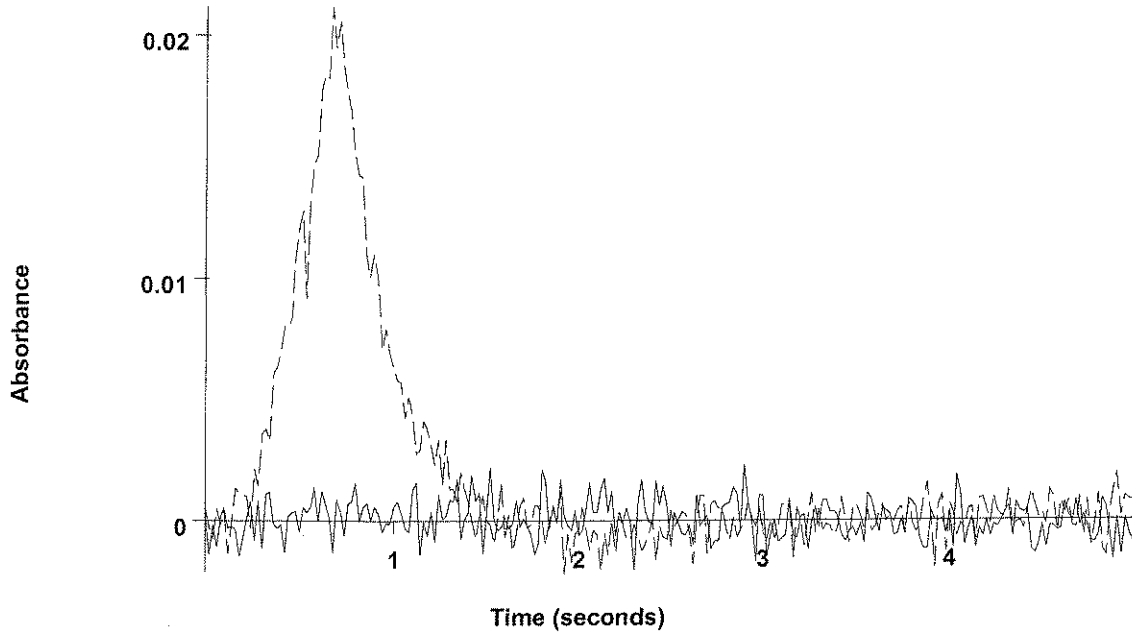
2	0.2	0.2	0.0007	0.0009	0.0022	0.0090	0.0196	03:35:34	Yes
Mean:	0.4	0.4	0.0011						
SD :	0.33	0.33	0.0006						
%RSD:	74.27	74.27	49.98						

*Handwritten mark resembling a stylized 'D' or 'P'.*

=====  
 Element: TI    Seq. No.: 34    AS Loc.: 16    Date: 06/26/2006  
 Sample ID: 0606346-10  
 µL dispensed: 10 from 148, 5 from 147, 15 from 16  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	0.0001	0.0003	0.0023	0.0098	0.0212	03:38:23	Yes

Tl



0606346-10  
(Replicate 1)  
(AA)

0606346-10  
(Replicate 1)  
(BG)

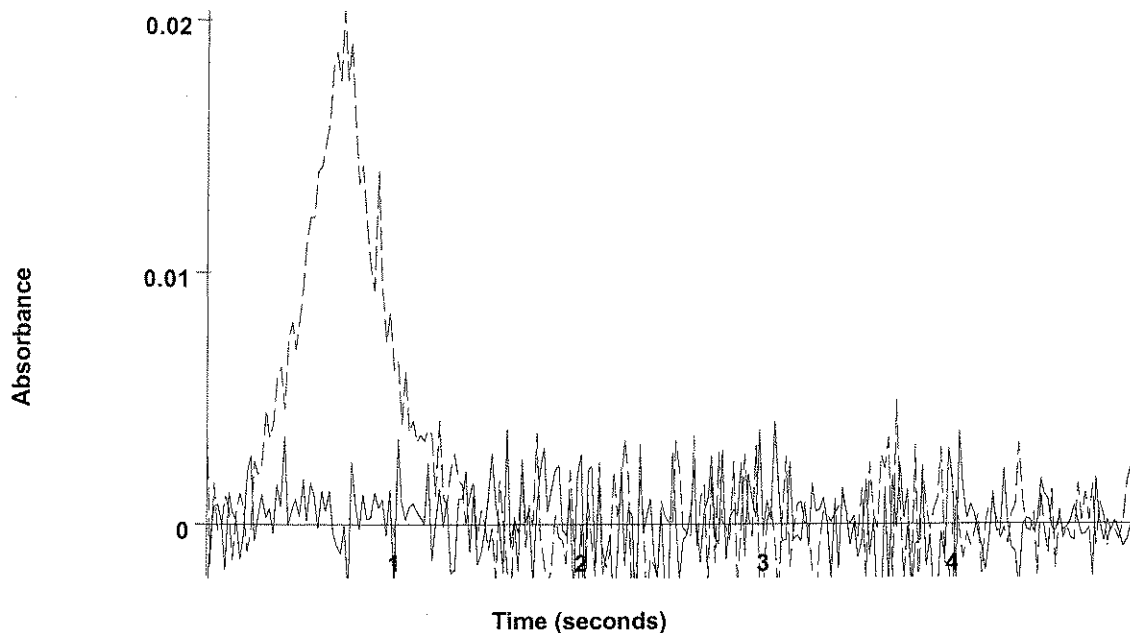
2	-0.2	-0.2	0.0000	0.0002	0.0043	0.0085	0.0190	03:41:13	Yes
Mean:	-0.2	-0.2	0.0000						
SD :	0.06	0.06	0.0001						
%RSD:	27.93	27.93	470.84						

*Handwritten signature or initials*

=====  
 Element: Tl    Seq. No.: 35    AS Loc.: 17    Date: 06/26/2006  
 Sample ID: 0606346-11  
 µL dispensed: 10 from 148, 5 from 147, 15 from 17  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0007	0.0009	0.0041	0.0095	0.0204	03:44:04	Yes

Tl



0606346-11  
(Replicate 1)  
(AA)

0606346-11  
(Replicate 1)  
(BG)

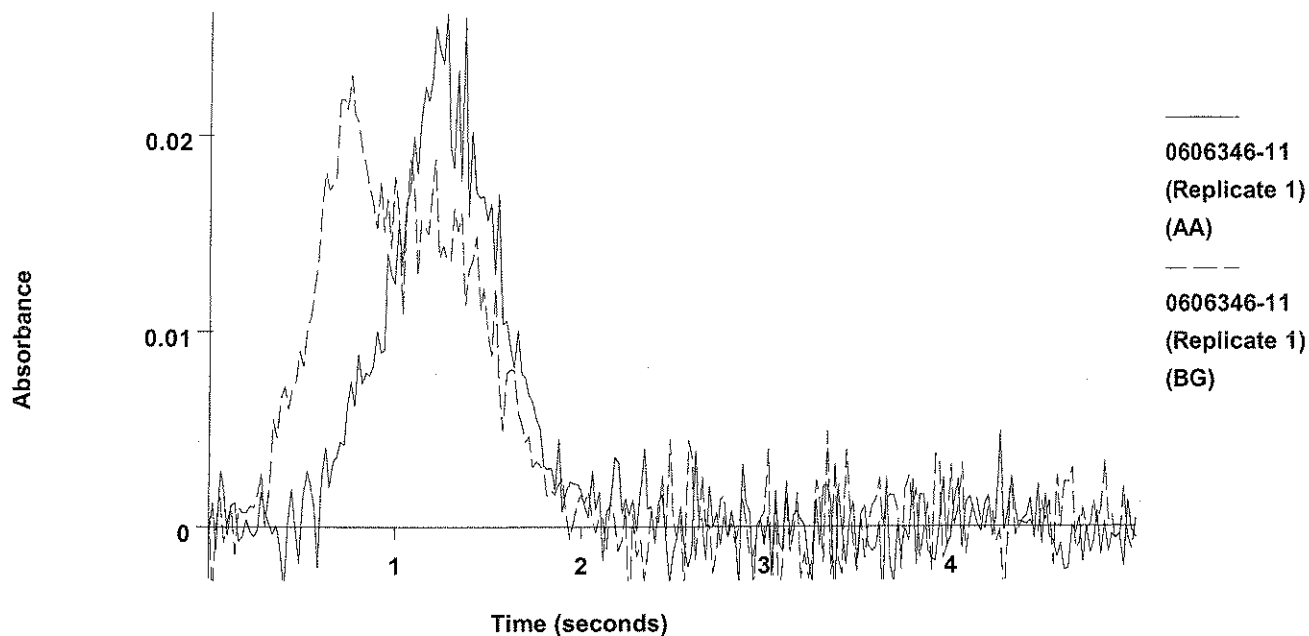
2	-0.2	-0.2	0.0000	0.0002	0.0040	0.0090	0.0203	03:46:55	Yes
Mean:	0.0	0.0	0.0004						
SD :	0.28	0.28	0.0005						
%RSD:	3710	3710	131.80						

*Handwritten mark*

=====  
 Element: Tl    Seq. No.: 36    AS Loc.: 17    Date: 06/26/2006  
 Sample ID: 0606346-11  
 µL dispensed: 7 from 148, 5 from 147, 3 from 131, 15 from 17  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	9.7	9.7	0.0165	0.0167	0.0263	0.0202	0.0231	03:49:53	Yes

Tl



2	10.5	10.5	0.0178	0.0180	0.0259	0.0215	0.0236	03:52:52	Yes
Mean:	10.1	10.1	0.0172						
SD :	0.56	0.56	0.0009						
%RSD:	5.59	5.59	5.47						

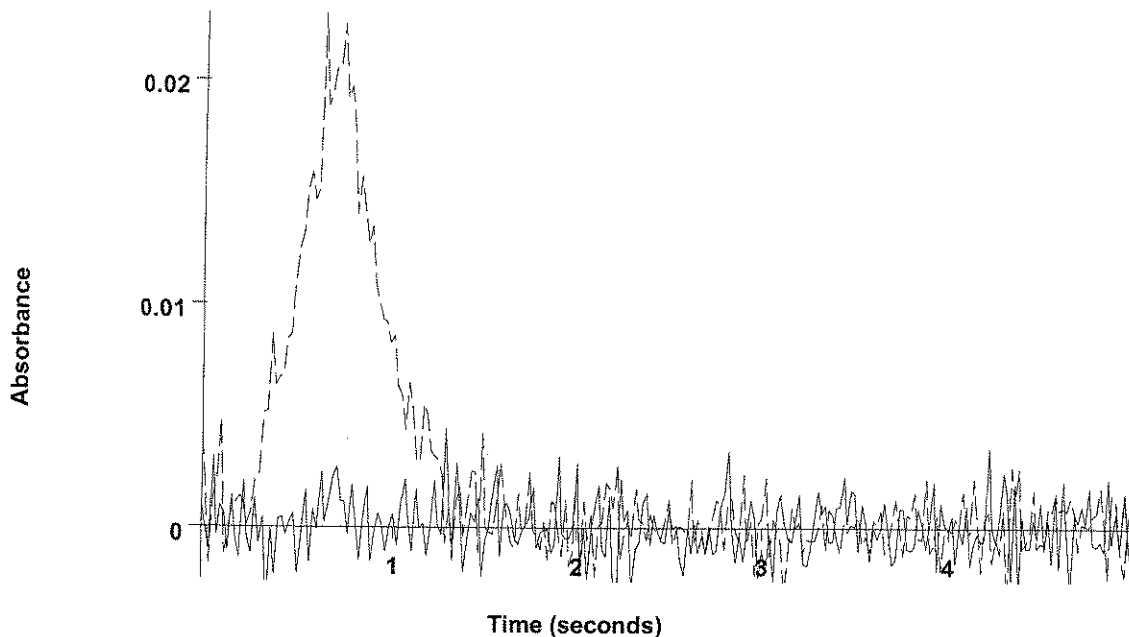
Recovery for Tl = 100.6 % within 85 % to 115 %

=====  
 Element: Tl    Seq. No.: 37    AS Loc.: 18    Date: 06/26/2006  
 Sample ID: bf62206-dup2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 18  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	0.0000	0.0002	0.0044	0.0114	0.0230	03:55:42	Yes



TI



bf62206-dup2  
(Replicate 1)  
(AA)

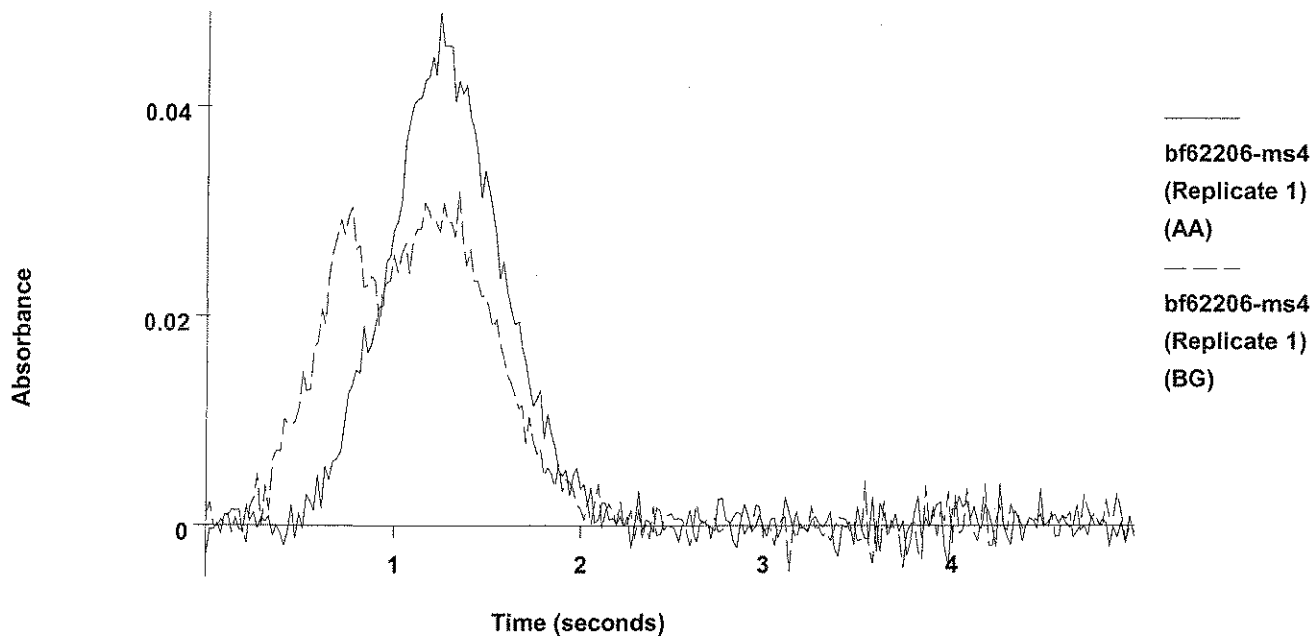
bf62206-dup2  
(Replicate 1)  
(BG)

2	0.3	0.3	0.0009	0.0011	0.0027	0.0098	0.0216	03:58:32	Yes
Mean:	0.1	0.1	0.0005						
SD :	0.38	0.38	0.0006						
%RSD:	705.6	705.6	138.29						

=====  
 Element: Tl    Seq. No.: 38    AS Loc.: 19    Date: 06/26/2006  
 Sample ID: bf62206-ms4  
 µL dispensed: 10 from 148, 5 from 147, 15 from 19  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.8	19.8	0.0335	0.0337	0.0490	0.0317	0.0319	04:01:24	Yes

Tl



2	19.3	19.3	0.0326	0.0328	0.0440	0.0295	0.0323	04:04:14	Yes
Mean:	19.6	19.6	0.0331						
SD :	0.38	0.38	0.0006						
%RSD:	1.94	1.94	1.91						

0.45

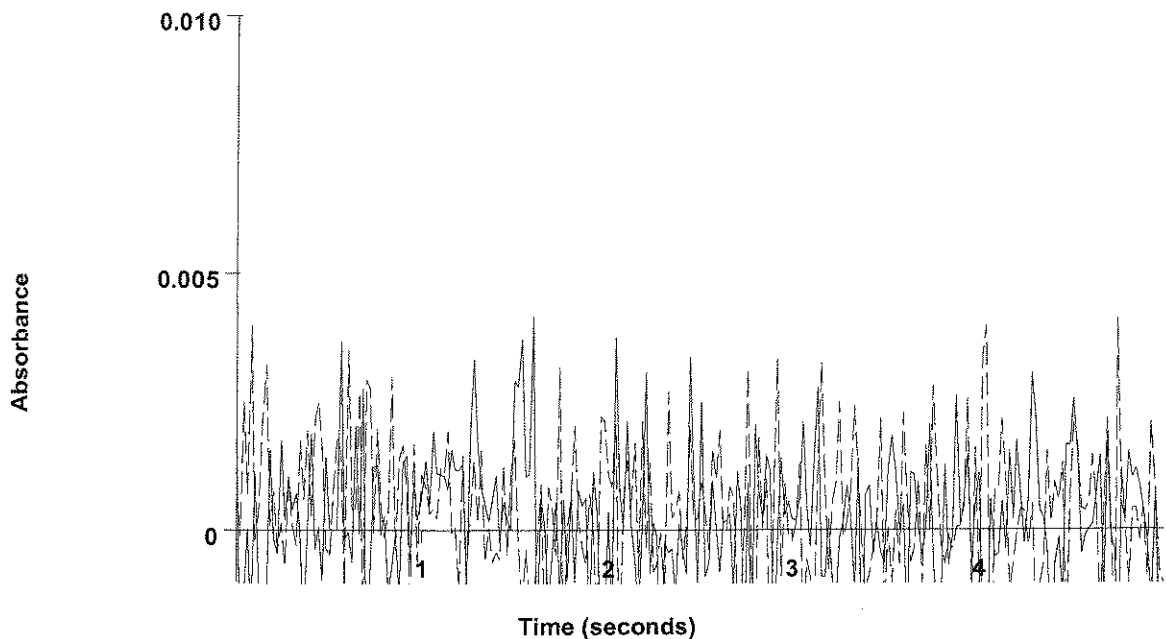
=====  
 Element: Tl Seq. No.: 39 AS Loc.: 20 Date: 06/26/2006

Sample ID: bf62206-sd2 x5

µL dispensed: 10 from 148, 5 from 147, 15 from 20

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0010	0.0012	0.0042	0.0021	0.0041	04:07:04	Yes

Tl



-----  
 bf62206-sd2 x5  
 (Replicate 1)  
 (AA)  
 -----  
 bf62206-sd2 x5  
 (Replicate 1)  
 (BG)

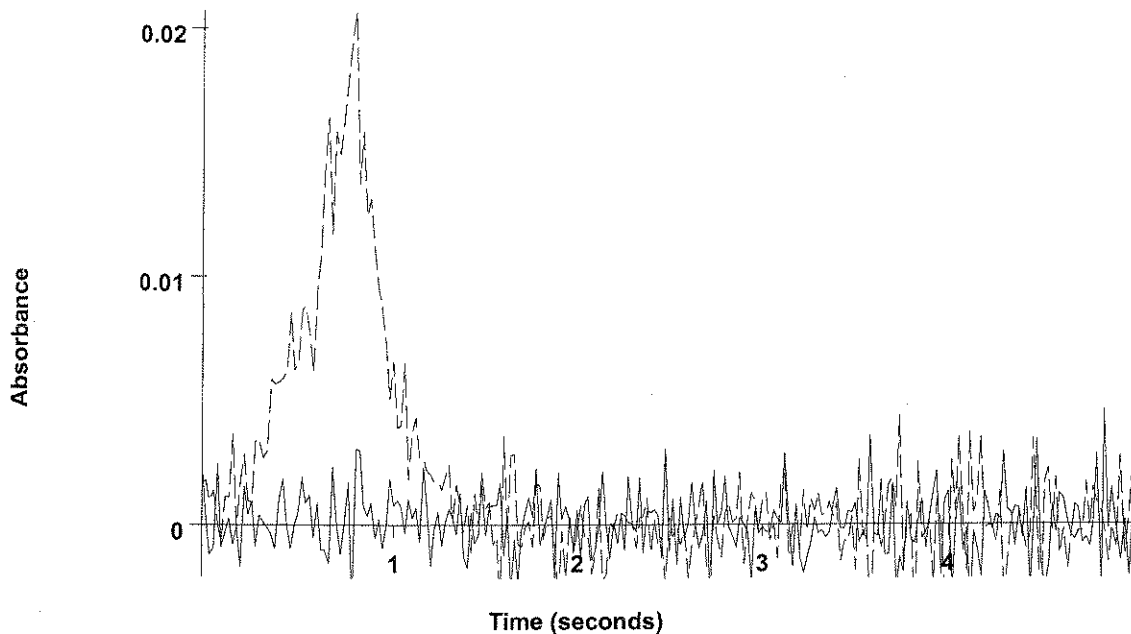
2	-0.6	-0.6	-0.0007	-0.0005	0.0035	0.0025	0.0039	04:09:55	Yes
Mean:	-0.1	-0.1	0.0002						
SD :	0.70	0.70	0.0012						
%RSD:	619.9	619.9	671.69						



=====  
 Element: Tl    Seq. No.: 40    AS Loc.: 21    Date: 06/26/2006  
 Sample ID: 0606346-13  
 µL dispensed: 10 from 148, 5 from 147, 15 from 21  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	0.0002	0.0004	0.0046	0.0088	0.0207	04:12:45	Yes

Tl



0606346-13  
(Replicate 1)  
(AA)

0606346-13  
(Replicate 1)  
(BG)

2	0.0	0.0	0.0004	0.0006	0.0051	0.0104	0.0221	04:15:35	Yes
Mean:	0.0	0.0	0.0003						
SD :	0.09	0.09	0.0002						
%RSD:	282.1	282.1	50.33						

*Handwritten signature*

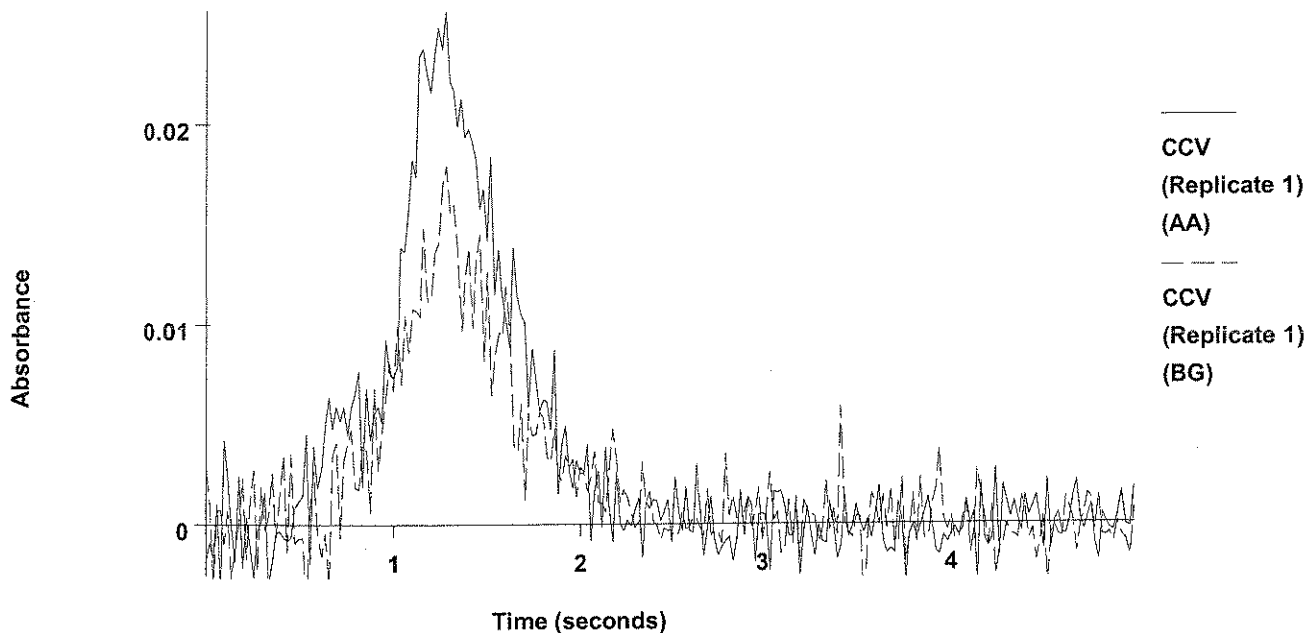
=====  
Element: Tl    Seq. No.: 41    AS Loc.: 124    Date: 06/26/2006

Sample ID: CCV

µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	9.4	9.4	0.0161	0.0163	0.0257	0.0110	0.0179	04:18:26	Yes

TI



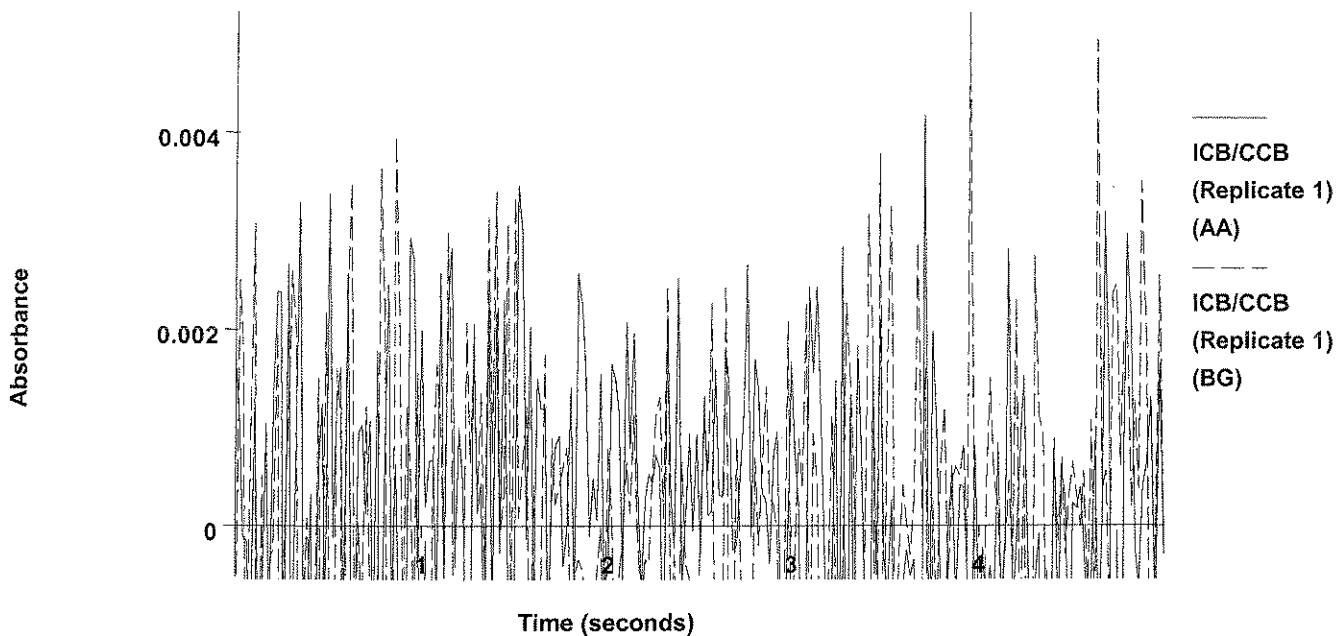
2	10.8	10.8	0.0183	0.0185	0.0269	0.0119	0.0170	04:21:18	Yes
Mean:	10.1	10.1	0.0172						
SD :	0.93	0.93	0.0016						
%RSD:	9.21	9.21	9.02						

QC value within specified limits. ✓

=====  
 Element: Tl    Seq. No.: 42    AS Loc.: 148    Date: 06/26/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0011	0.0013	0.0042	0.0005	0.0052	04:24:08	Yes

Tl



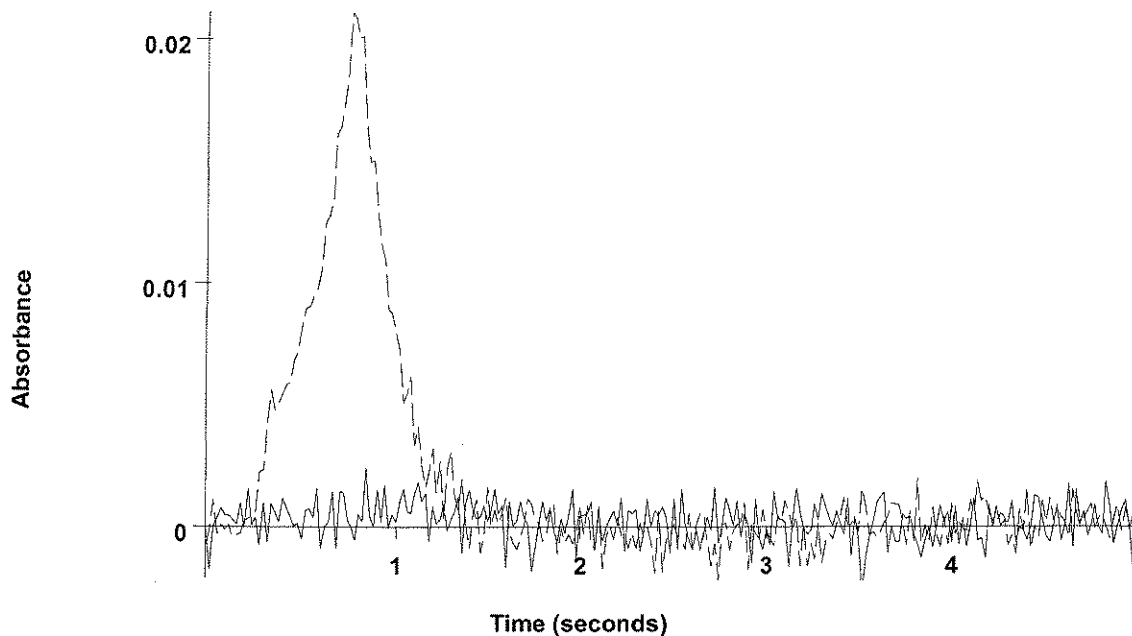
2	-0.2	-0.2	0.0000	0.0002	0.0026	0.0003	0.0019	04:26:57	Yes
Mean:	0.1	0.1	0.0005						
SD :	0.46	0.46	0.0008						
%RSD:	439.7	439.7	142.75						

QC value within specified limits. ✓

=====  
 Element: Tl    Seq. No.: 43    AS Loc.: 22    Date: 06/26/2006  
 Sample ID: 0606346-14  
 µL dispensed: 10 from 148, 5 from 147, 15 from 22  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0010	0.0012	0.0025	0.0093	0.0211	04:29:48	Yes

Tl



0606346-14  
(Replicate 1)  
(AA)  
-----  
0606346-14  
(Replicate 1)  
(BG)

2	-0.5	-0.5	-0.0004	-0.0002	0.0040	0.0120	0.0213	04:32:39	Yes
Mean:	0.0	0.0	0.0003						
SD :	0.62	0.62	0.0010						
%RSD:	1470	1470	351.30						

*Handwritten signature*

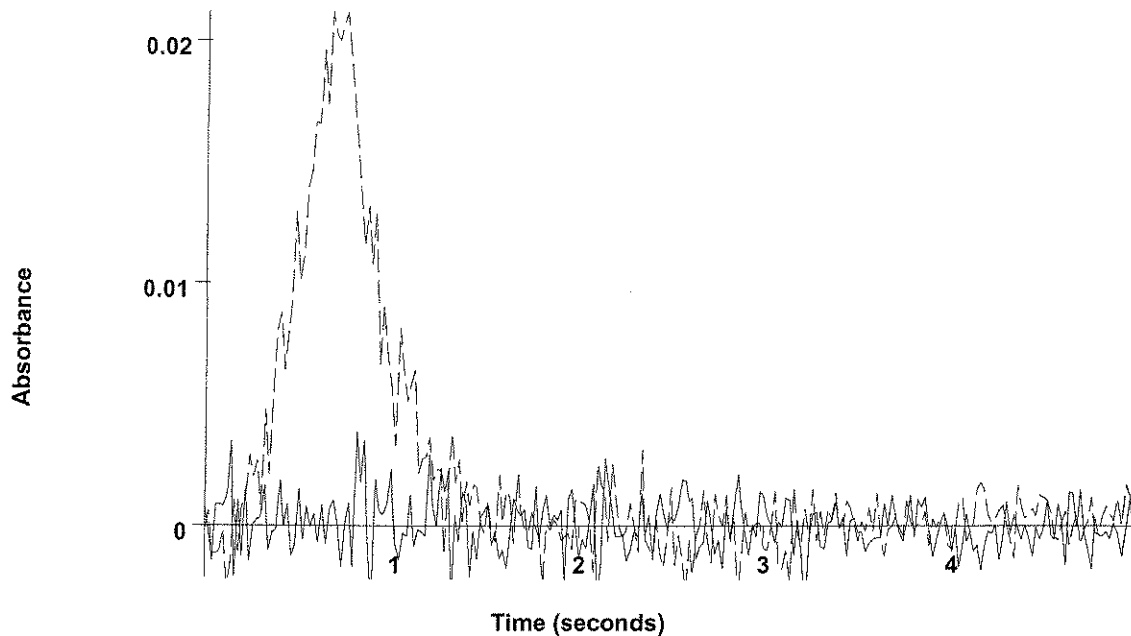
=====  
Element: Tl    Seq. No.: 44    AS Loc.: 23    Date: 06/26/2006

Sample ID: 0606346-15

µL dispensed: 10 from 148, 5 from 147, 15 from 23

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	0.0000	0.0002	0.0038	0.0105	0.0212	04:35:29	Yes

TI



0606346-15  
(Replicate 1)  
(AA)

0606346-15  
(Replicate 1)  
(BG)

2	-0.7	-0.7	-0.0009	-0.0007	0.0039	0.0106	0.0225	04:38:19	Yes
Mean:	-0.5	-0.5	-0.0004						
SD :	0.36	0.36	0.0006						
%RSD:	75.96	75.96	140.93						

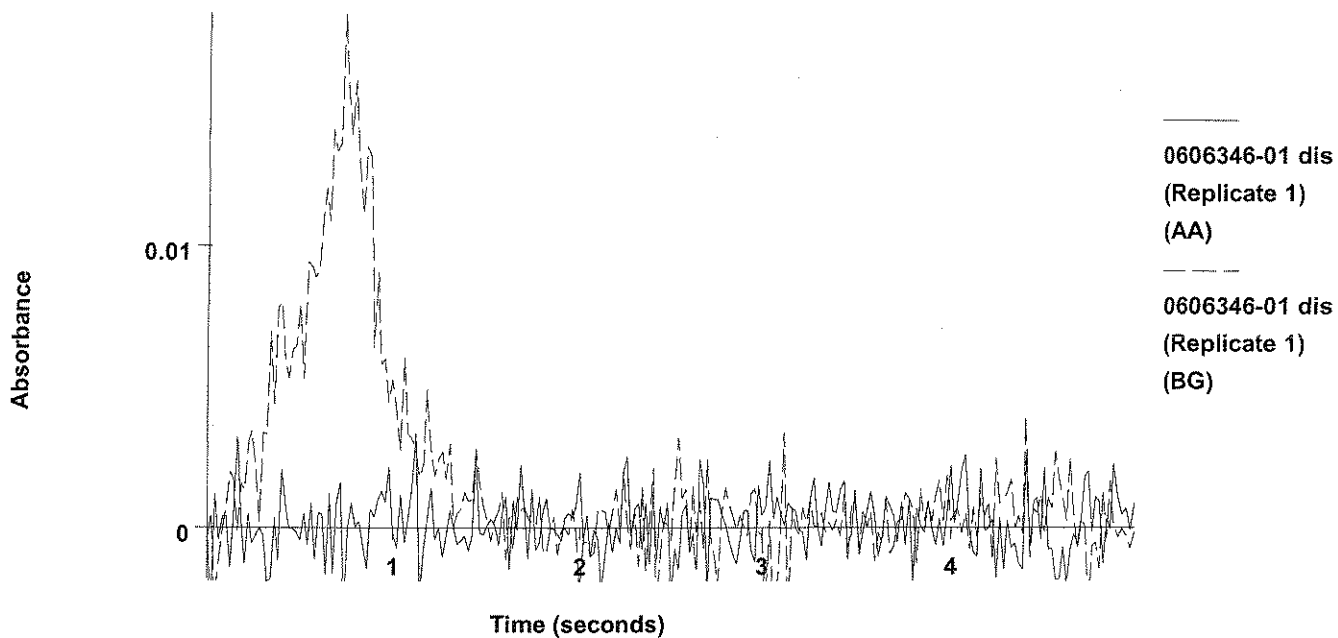
*Handwritten signature*

=====  
 Element: Tl    Seq. No.: 45    AS Loc.: 24    Date: 06/26/2006  
 Sample ID: 0606346-01 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 24  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0005	0.0007	0.0034	0.0088	0.0182	04:41:08	Yes



TI



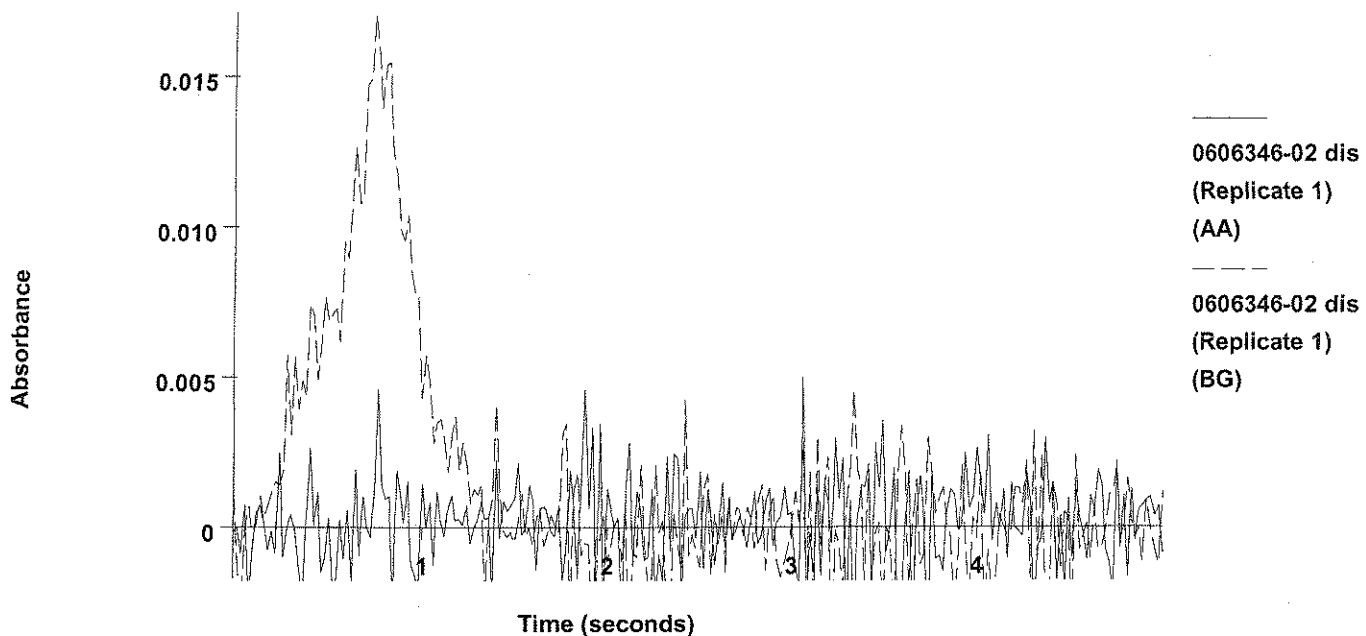
2	0.4	0.4	0.0011	0.0013	0.0052	0.0080	0.0184	04:43:57	Yes
Mean:	0.2	0.2	0.0008						
SD :	0.25	0.25	0.0004						
%RSD:	105.1	105.1	54.85						

*Handwritten signature*

=====  
 Element: Tl    Seq. No.: 46    AS Loc.: 25    Date: 06/26/2006  
 Sample ID: 0606346-02 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 25  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.3	0.3	0.0008	0.0010	0.0050	0.0078	0.0171	04:46:48	Yes

TI

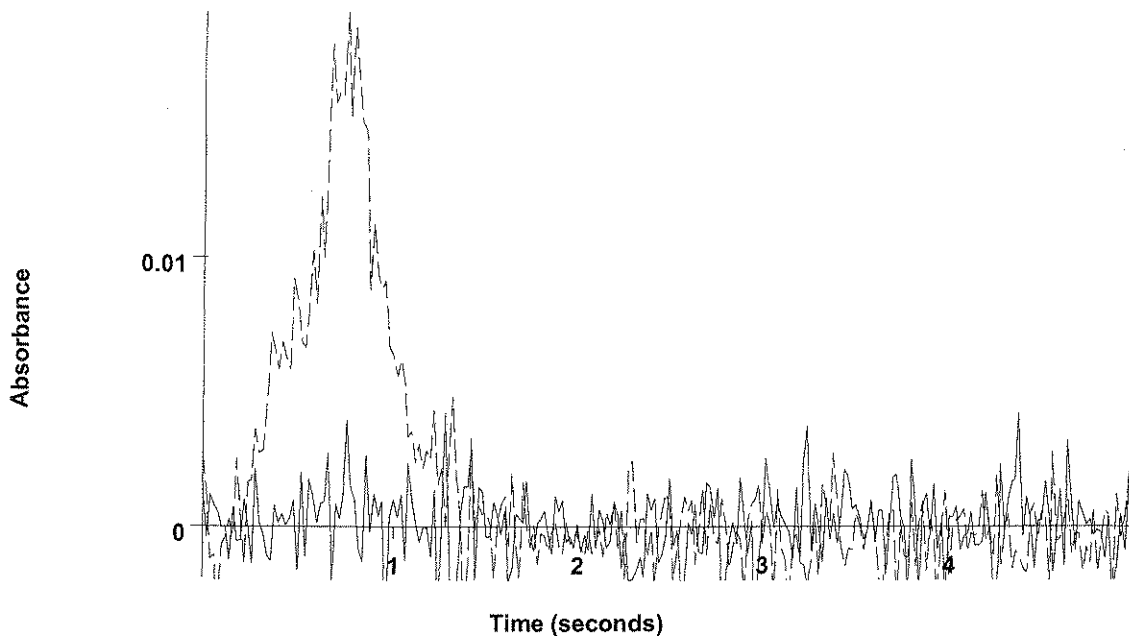


2	0.6	0.6	0.0014	0.0016	0.0034	0.0073	0.0165	04:49:39	Yes
Mean:	0.5	0.5	0.0011						
SD :	0.26	0.26	0.0004						
%RSD:	55.56	55.56	37.67						

=====  
 Element: T1    Seq. No.: 47    AS Loc.: 26    Date: 06/26/2006  
 Sample ID: 0606346-03 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 26  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	0.0003	0.0005	0.0042	0.0077	0.0191	04:52:29	Yes

TI



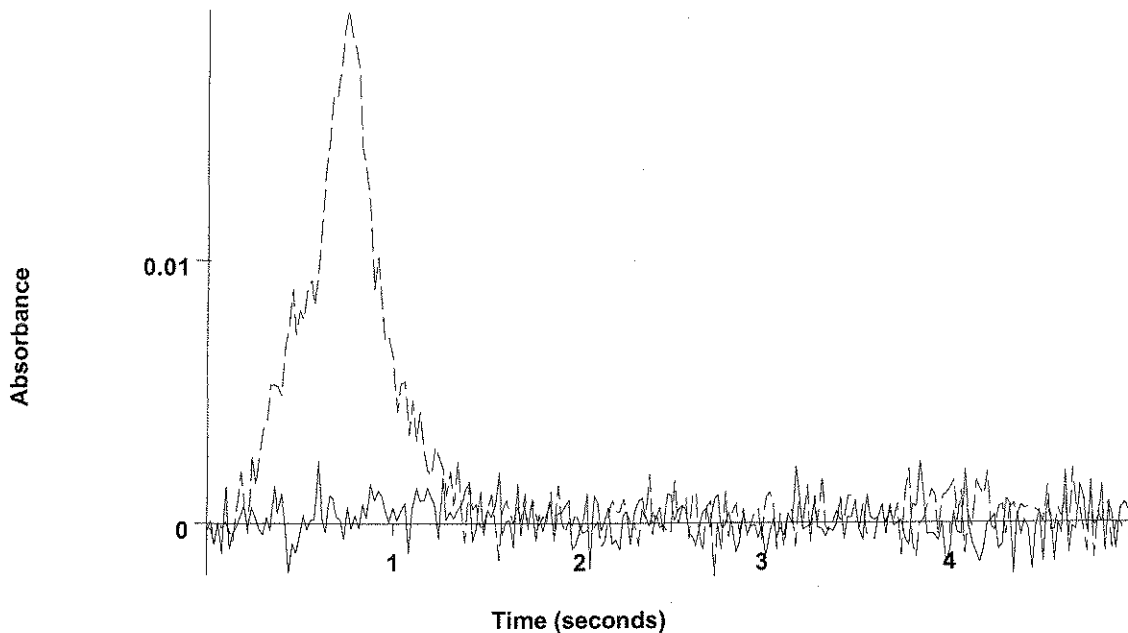
0606346-03 dis  
(Replicate 1)  
(AA)  
0606346-03 dis  
(Replicate 1)  
(BG)

2	-0.2	-0.2	0.0000	0.0002	0.0040	0.0087	0.0219	04:55:19	Yes
Mean:	-0.1	-0.1	0.0002						
SD :	0.15	0.15	0.0002						
%RSD:	118.3	118.3	160.21						

=====  
 Element: T1    Seq. No.: 48    AS Loc.: 27    Date: 06/26/2006  
 Sample ID: 0606346-05 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 27  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	0.0004	0.0006	0.0024	0.0097	0.0195	04:58:08	Yes

Tl



0606346-05 dis  
(Replicate 1)  
(AA)

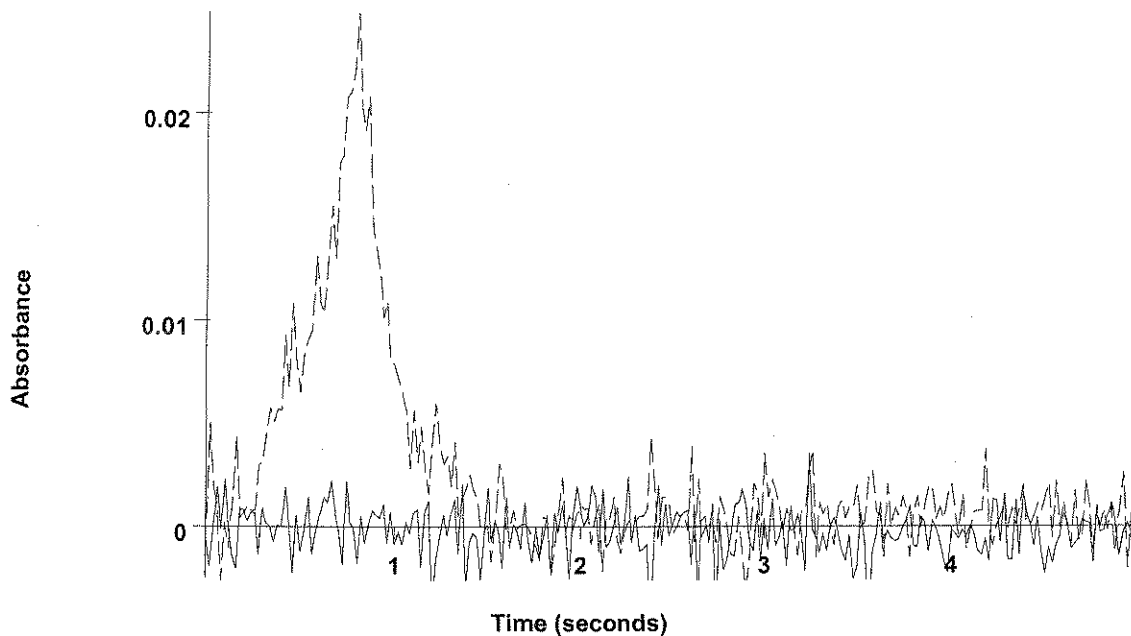
0606346-05 dis  
(Replicate 1)  
(BG)

2	0.0	0.0	0.0003	0.0005	0.0026	0.0096	0.0194	05:00:57	Yes
Mean:	0.0	0.0	0.0004						
SD :	0.04	0.04	0.0001						
%RSD:	829.0	829.0	16.79						

=====  
 Element: Tl    Seq. No.: 49    AS Loc.: 28    Date: 06/26/2006  
 Sample ID: 0606346-06 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 28  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-1.1	-1.1	-0.0014	-0.0012	0.0035	0.0124	0.0249	05:03:46	Yes

Tl



0606346-06 dis  
(Replicate 1)  
(AA)

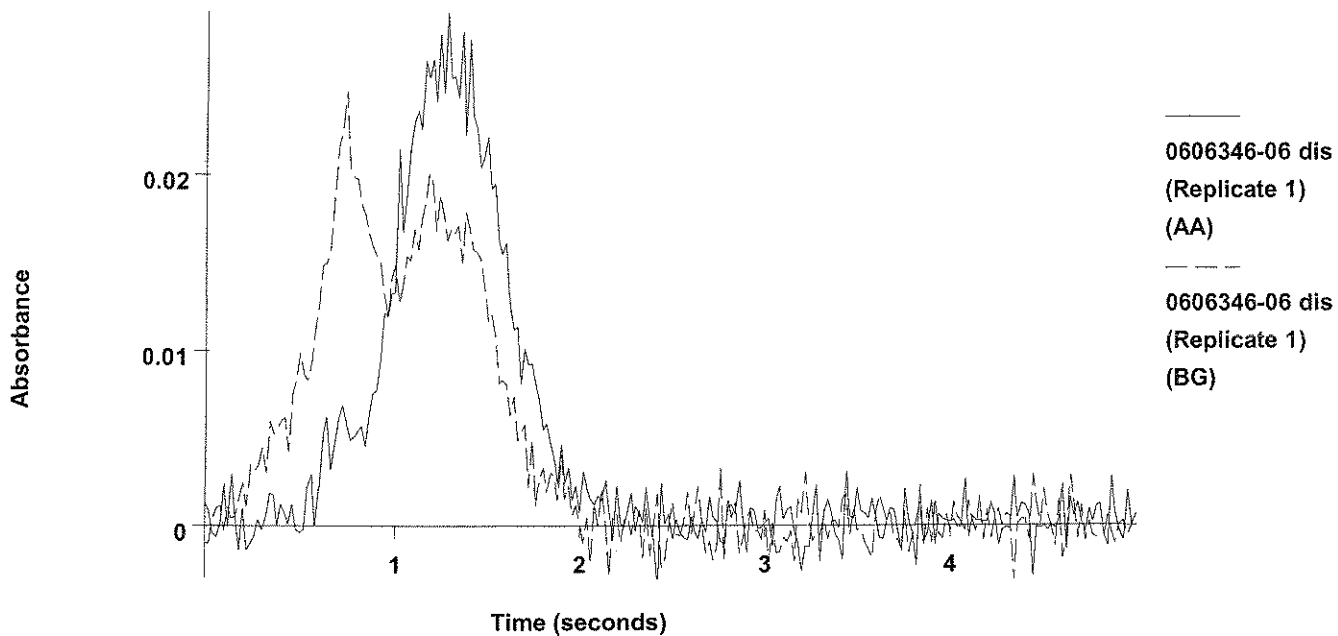
0606346-06 dis  
(Replicate 1)  
(BG)

2	0.4	0.4	0.0011	0.0013	0.0037	0.0088	0.0179	05:06:35	Yes
Mean:	-0.3	-0.3	-0.0001						
SD :	1.06	1.06	0.0018						
%RSD:	348.5	348.5	1232.87						

=====  
 Element: Tl      Seq. No.: 50      AS Loc.: 28      Date: 06/26/2006  
 Sample ID: 0606346-06 dis  
 µL dispensed: 7 from 148, 5 from 147, 3 from 131, 15 from 28  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	11.9	11.9	0.0203	0.0205	0.0293	0.0200	0.0247	05:09:33	Yes

Tl



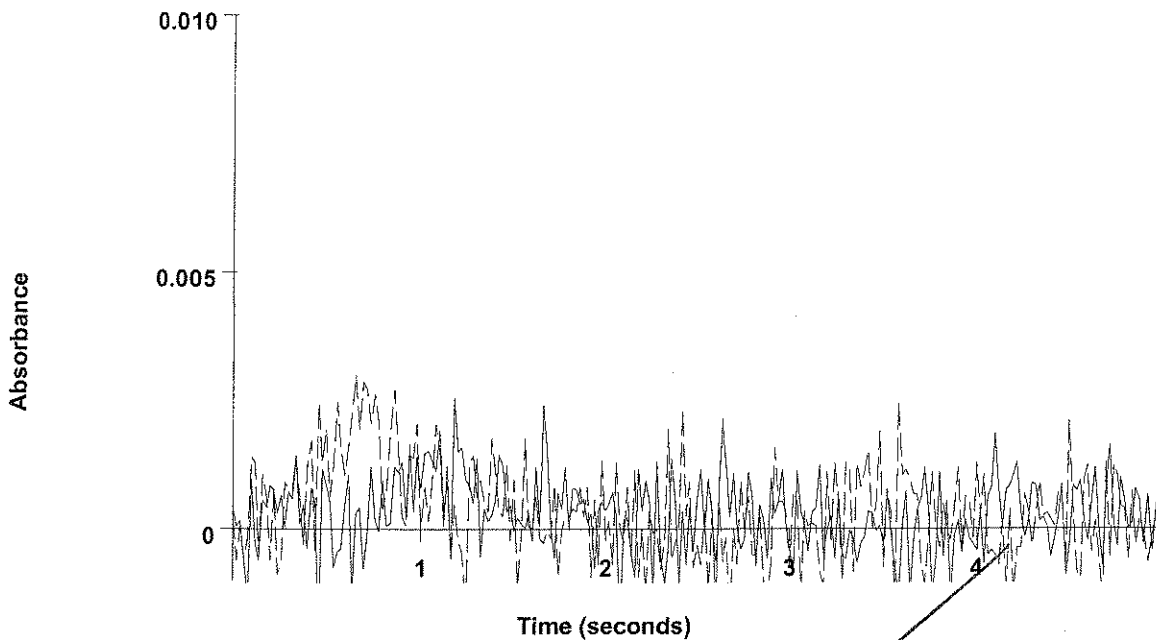
2	12.4	12.4	0.0211	0.0213	0.0288	0.0225	0.0239	05:12:30	Yes
Mean:	12.2	12.2	0.0207						
SD :	0.37	0.37	0.0006						
%RSD:	3.08	3.08	3.02						

Recovery for Tl = 121.7 %, greater than upper limit 115 % *high*

=====  
 Element: Tl    Seq. No.: 51    AS Loc.: 28    Date: 06/26/2006  
 Sample ID: 0606346-06 dis  
 µL dispensed: 20 from 148, 5 from 147, 5 from 28  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlankCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.7	0.6	0.0013	0.0015	0.0026	0.0019	0.0030	05:15:21	Yes

TI



0606346-06 dis  
(Replicate 1)  
(AA)

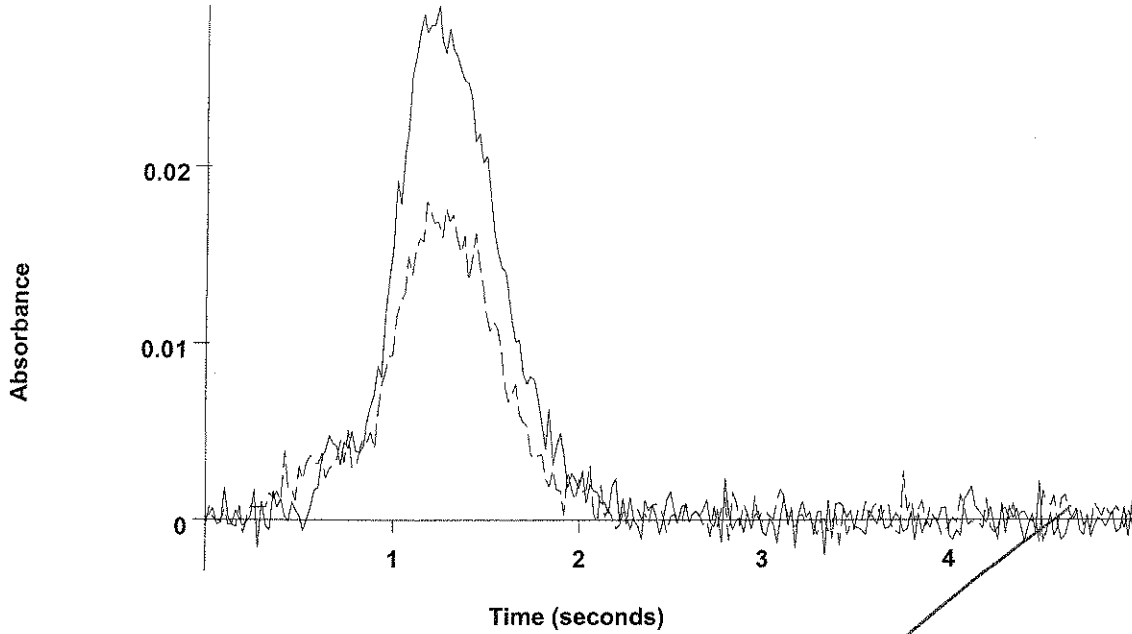
0606346-06 dis  
(Replicate 1)  
(BG)

2	0.6	0.2	0.0007	0.0009	0.0024	0.0018	0.0031	05:18:11	Yes
Mean:	1.1	0.4	0.0010						
SD :	0.76	0.25	0.0004						
%RSD:	65.94	65.94	41.97						

=====  
 Element: Tl    Seq. No.: 52    AS Loc.: 28    Date: 06/26/2006  
 Sample ID: 0606346-06 dis  
 µL dispensed: 17 from 148, 5 from 147, 3 from 131, 5 from 28  
 =====

Repl #	Sample Conc µg/L	Stnd Conc µg/L	Blnk Corr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	34.1	11.4	0.0194	0.0196	0.0291	0.0136	0.0180	05:21:07	Yes

Tl



0606346-06 dis  
(Replicate 1)  
(AA)

0606346-06 dis  
(Replicate 1)  
(BG)

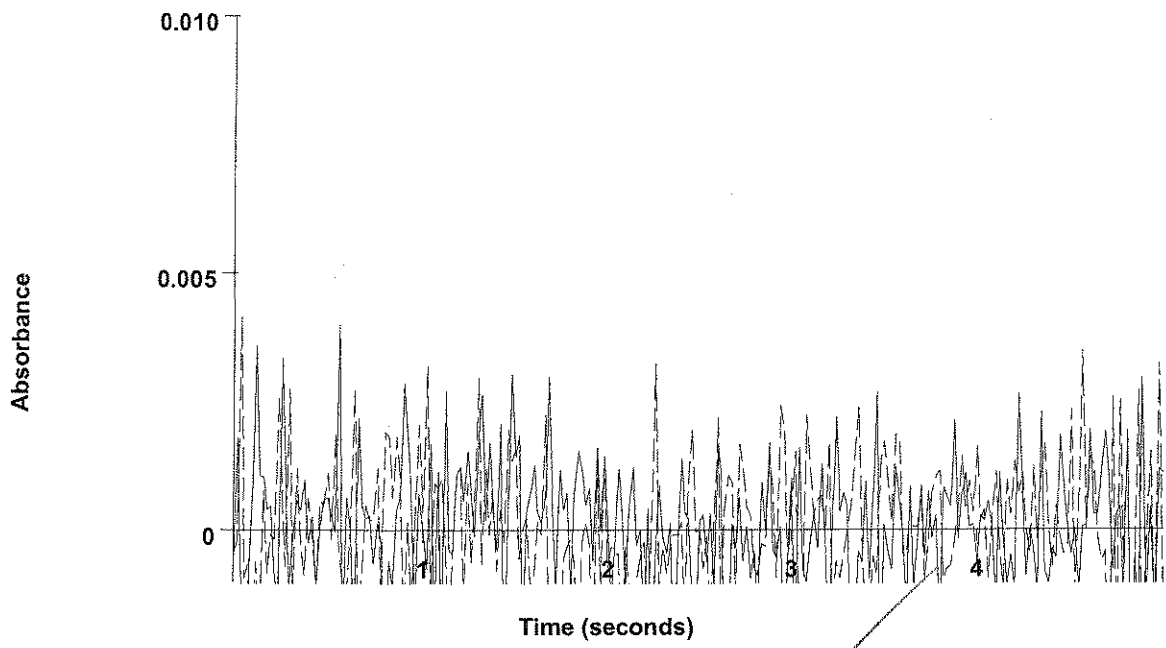
2            36.8            12.3            0.0209            0.0211            0.0296            0.0139            0.0201 05:24:05 Yes  
 Mean:        35.5            11.8            0.0201  
 SD :           1.89            0.63            0.0011  
 %RSD:        5.34            5.34            5.24  
 Recovery for Tl = 118.3 %, greater than upper limit 115 %

=====  
 Element: Tl    Seq. No.: 53            AS Loc.: 28            Date: 06/26/2006  
 Sample ID: 0606346-06 dis  
 µL dispensed: 22 from 148, 5 from 147, 3 from 28  
 =====

Repl #	Sample Conc µg/L	Stnd Conc µg/L	Blk Corr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	0.0	0.0003	0.0005	0.0040	0.0005	0.0041	05:26:53	Yes



Tl



0606346-06 dis  
(Replicate 1)  
(AA)

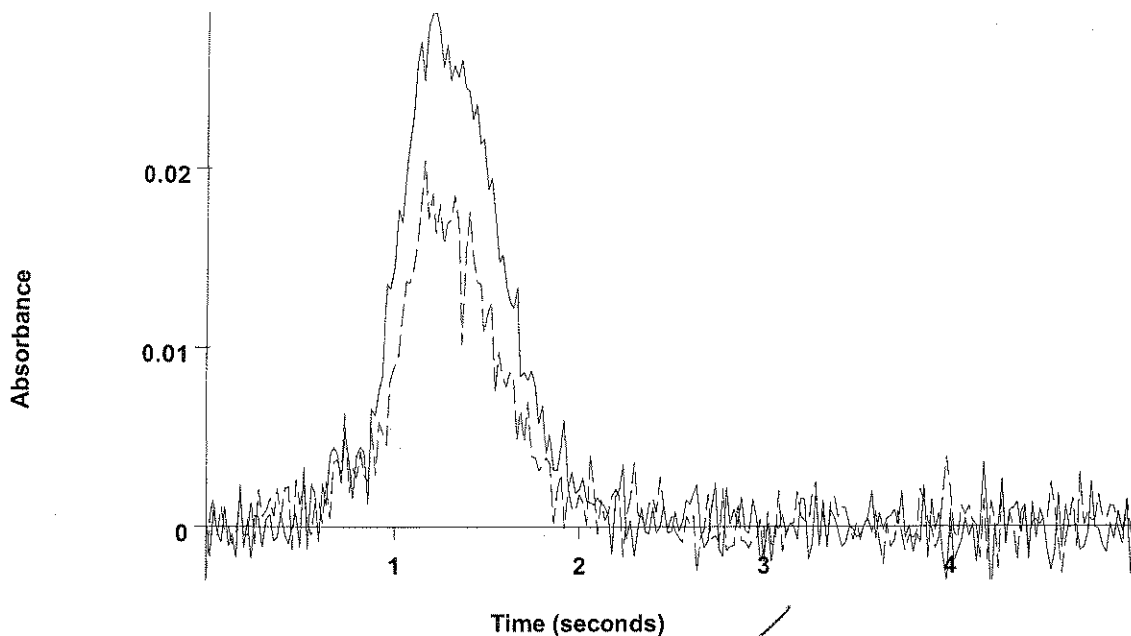
0606346-06 dis  
(Replicate 1)  
(BG)

2	-2.2	-0.4	-0.0004	-0.0002	0.0050	0.0015	0.0049	05:29:43	Yes
Mean:	-1.1	-0.2	0.0000						
SD :	1.49	0.30	0.0005						
%RSD:	133.8	133.8	5706.86						

=====  
 Element: Tl    Seq. No.: 54    AS Loc.: 28    Date: 06/26/2006  
 Sample ID: 0606346-06 dis  
 µL dispensed: 19 from 148, 5 from 147, 3 from 131, 3 from 28  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	54.8	11.0	0.0187	0.0189	0.0287	0.0129	0.0205	05:32:40	Yes

Tl



0606346-06 dis  
(Replicate 1)  
(AA)

0606346-06 dis  
(Replicate 1)  
(BG)

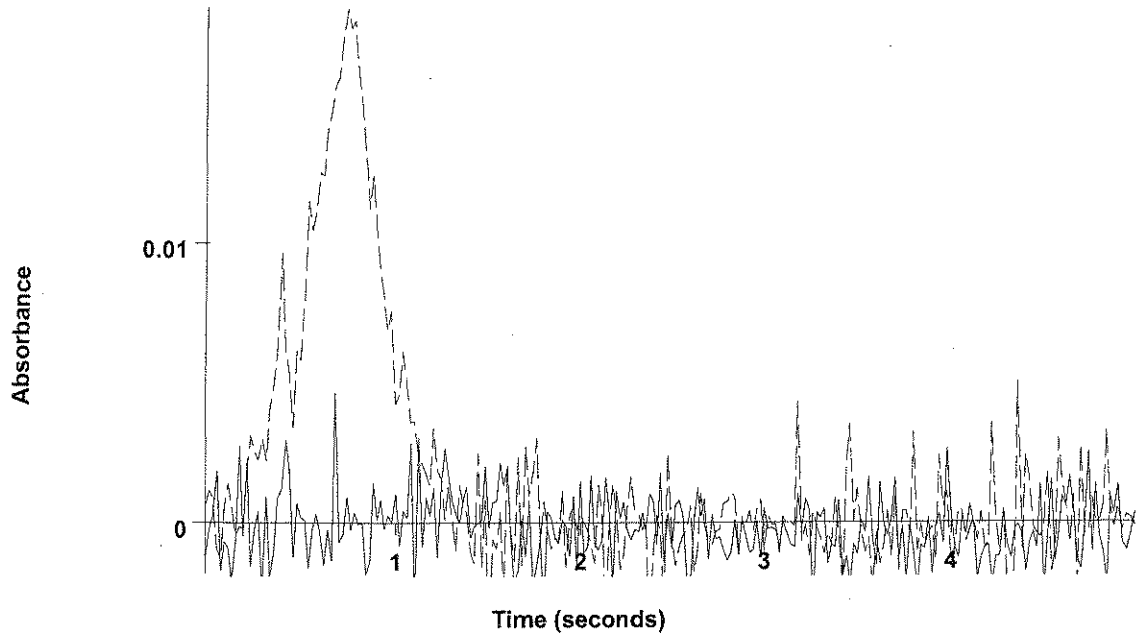
2	58.1	11.6	0.0198	0.0200	0.0267	0.0120	0.0179	05:35:37	Yes
Mean:	56.5	11.3	0.0192						
SD :	2.36	0.47	0.0008						
%RSD:	4.18	4.18	4.10						

Recovery for Tl = 112.9 % within 85 % to 115 %

=====  
 Element: Tl    Seq. No.: 55    AS Loc.: 29    Date: 06/26/2006  
 Sample ID: bf62207-dupl  
 µL dispensed: 10 from 148, 5 from 147, 15 from 29  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.9	-0.9	-0.0011	-0.0009	0.0047	0.0083	0.0184	05:38:26	Yes

TI



-----  
bf62207-dup1  
(Replicate 1)  
(AA)

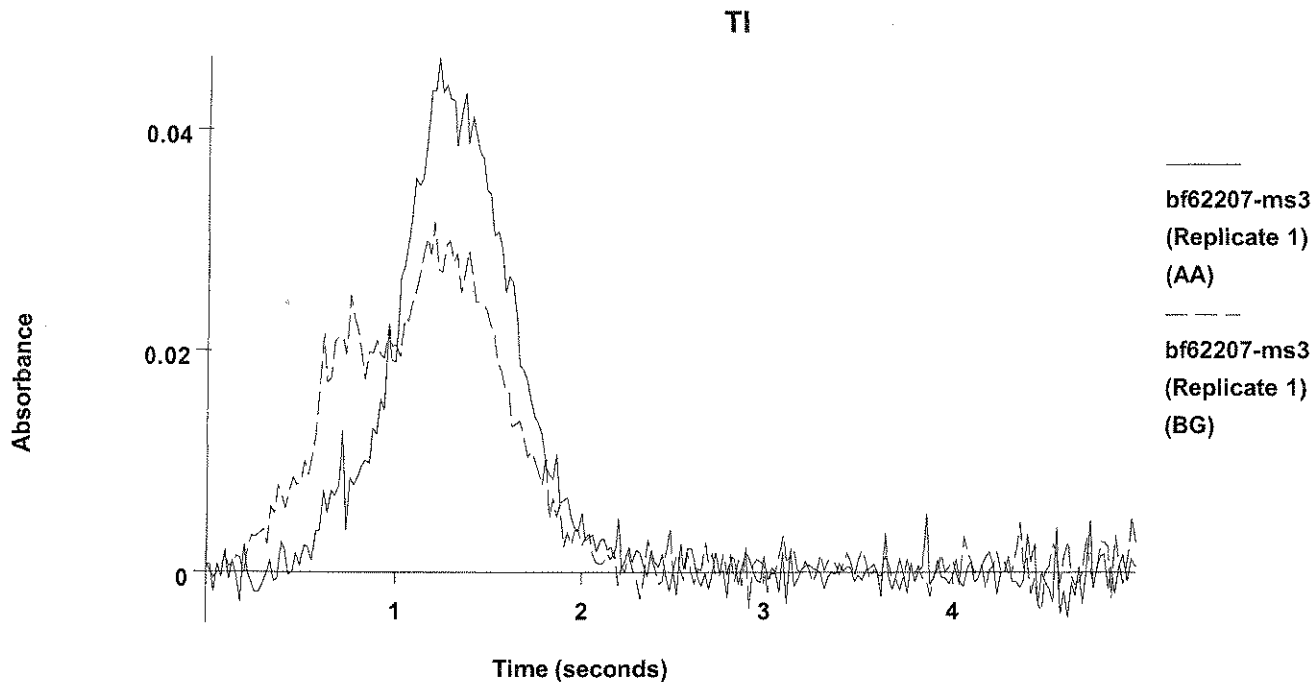
-----  
bf62207-dup1  
(Replicate 1)  
(BG)

2	-0.2	-0.2	0.0000	0.0002	0.0043	0.0105	0.0181	05:41:16	Yes
Mean:	-0.5	-0.5	-0.0005						
SD :	0.46	0.46	0.0008						
%RSD:	86.68	86.68	147.39						

*Handwritten mark resembling a stylized 'B' or '15'.*

=====  
Element: Tl    Seq. No.: 56    AS Loc.: 30    Date: 06/26/2006  
Sample ID: bf62207-ms3  
µL dispensed: 10 from 148, 5 from 147, 15 from 30  
=====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	18.9	18.9	0.0320	0.0322	0.0465	0.0309	0.0316	05:44:06	Yes



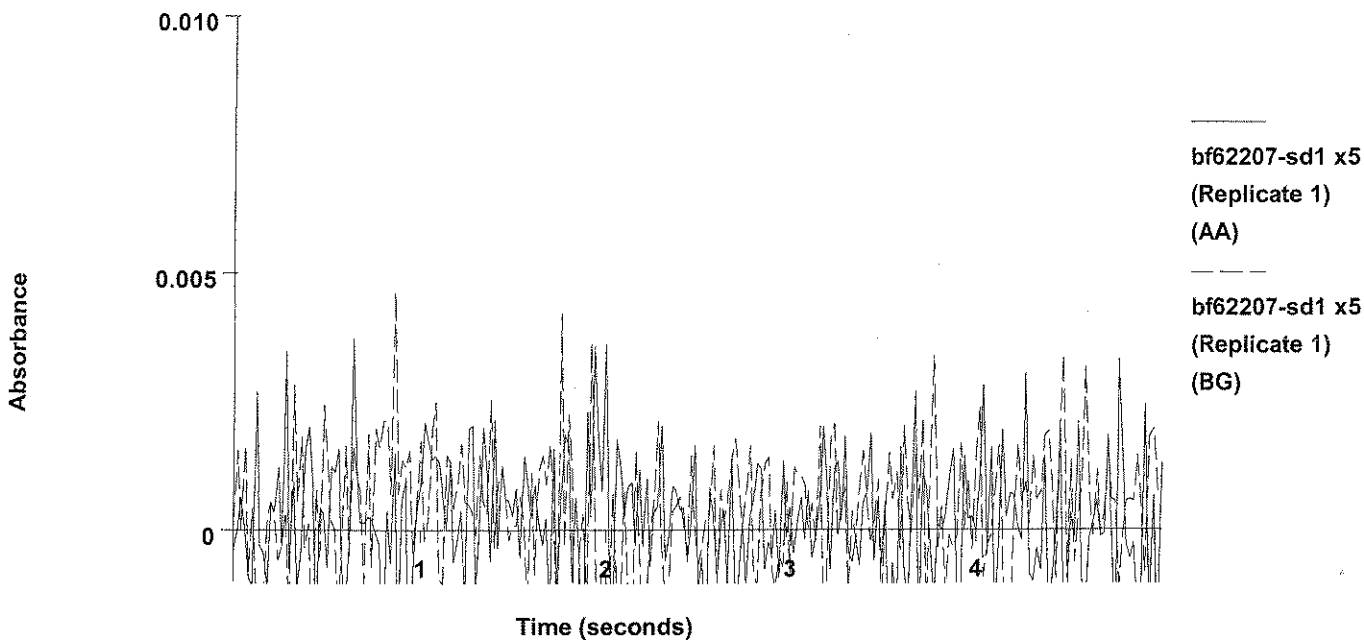
2	18.7	18.7	0.0316	0.0318	0.0482	0.0288	0.0317	05:46:56	Yes
Mean:	18.8	18.8	0.0318						
SD :	0.18	0.18	0.0003						
%RSD:	0.96	0.96	0.95						

(945)

=====  
 Element: Tl    Seq. No.: 57    AS Loc.: 31    Date: 06/26/2006  
 Sample ID: bf62207-sd1 x5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 31  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0010	0.0012	0.0037	0.0020	0.0046	05:49:45	Yes

Tl



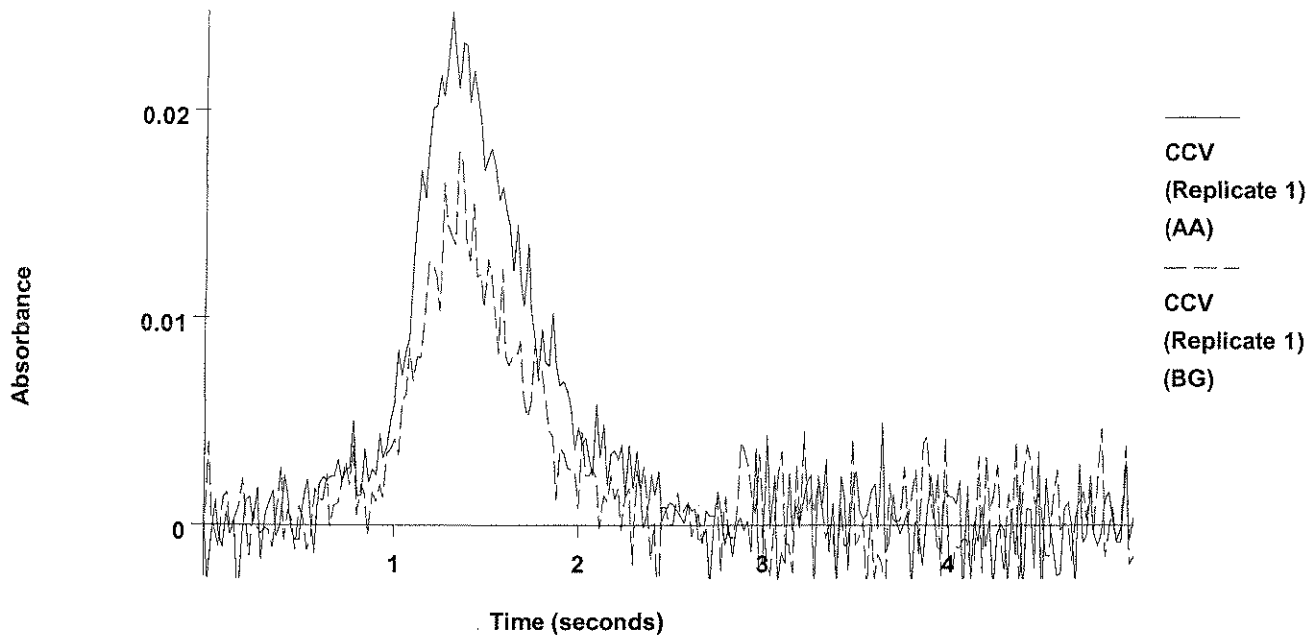
2	-0.1	-0.1	0.0003	0.0005	0.0035	0.0001	0.0042	05:52:34	Yes
Mean:	0.2	0.2	0.0006						
SD :	0.29	0.29	0.0005						
%RSD:	188.5	188.5	78.70						

*Handwritten mark resembling a stylized 'M' or 'W'.*

=====  
 Element: Tl    Seq. No.: 58    AS Loc.: 124    Date: 06/26/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 124  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	9.9	9.9	0.0170	0.0172	0.0248	0.0116	0.0180	05:55:26	Yes

Tl



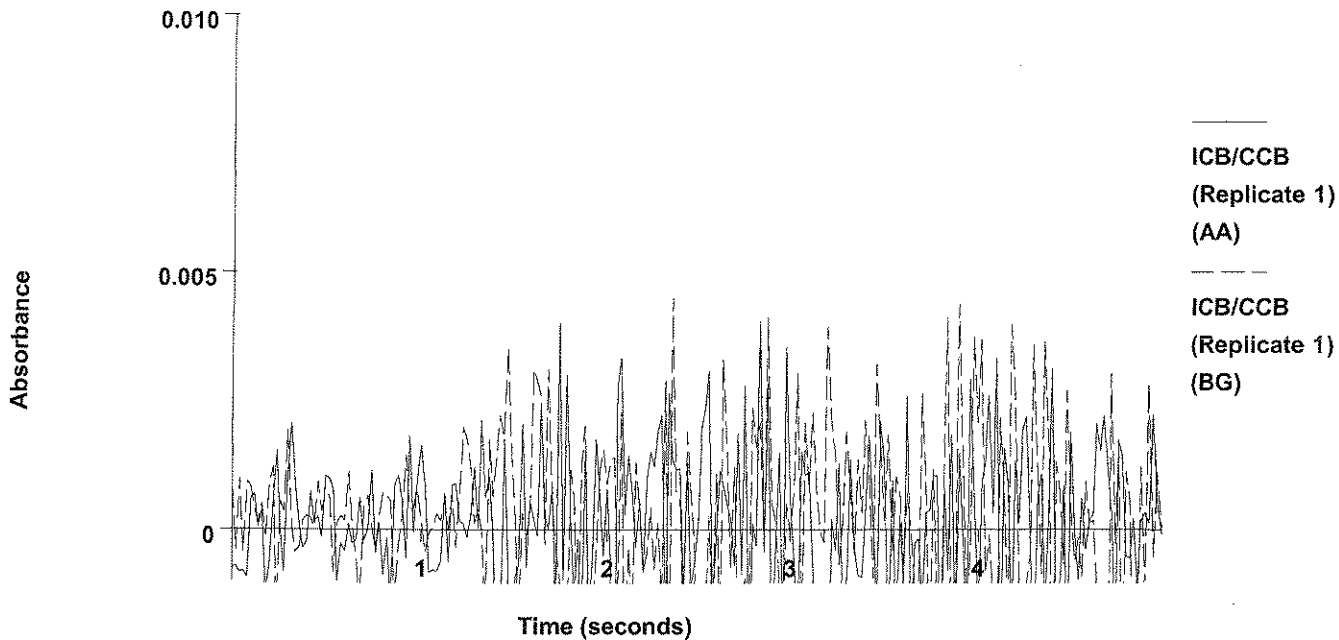
2	10.6	10.6	0.0181	0.0183	0.0284	0.0113	0.0176	05:58:17	Yes
Mean:	10.3	10.3	0.0175						
SD :	0.47	0.47	0.0008						
%RSD:	4.60	4.60	4.50						

QC value within specified limits. ✓

=====  
 Element: Tl    Seq. No.: 59    AS Loc.: 148    Date: 06/26/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0007	0.0009	0.0040	0.0015	0.0045	06:01:08	Yes

Tl

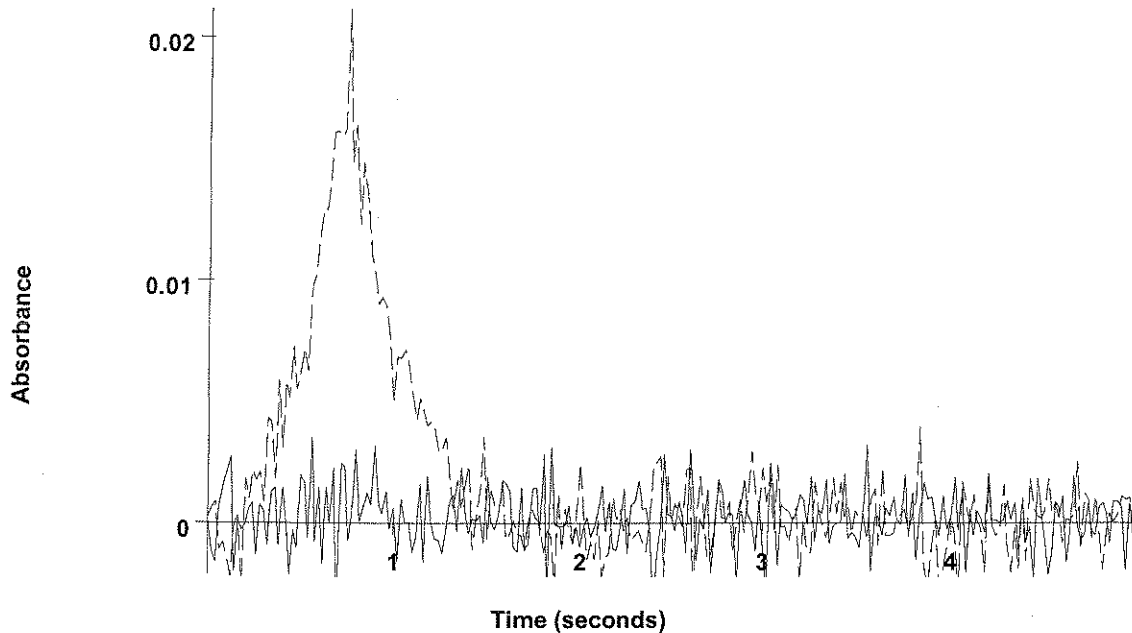


2            -0.2        -0.2        0.0001    0.0003    0.0042    -0.0002    0.0047    06:03:57    Yes  
 Mean:        0.0        0.0        0.0004  
 SD :        0.26        0.26        0.0004  
 %RSD:       2550        2550        113.72  
 QC value within specified limits.

=====  
 Element: Tl    Seq. No.: 60            AS Loc.: 32    Date: 06/26/2006  
 Sample ID: 0606346-07 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 32  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0010	0.0012	0.0036	0.0092	0.0212	06:06:47	Yes

Tl



0606346-07 dis  
(Replicate 1)  
(AA)

0606346-07 dis  
(Replicate 1)  
(BG)

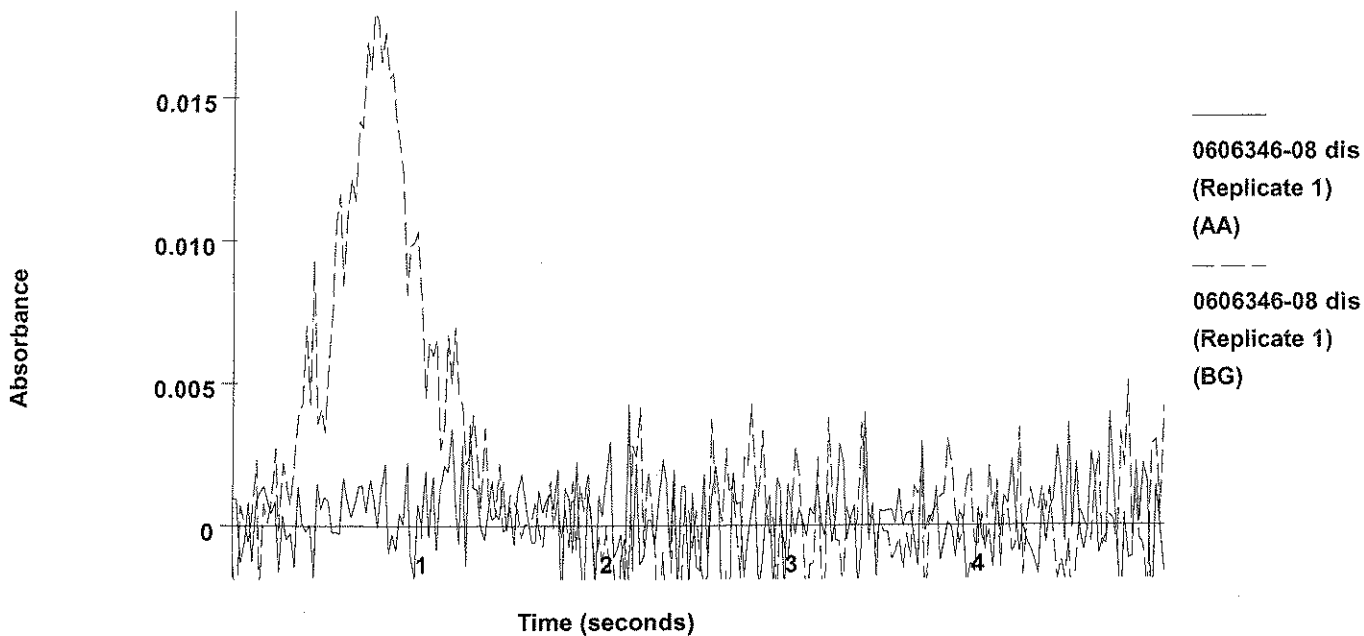
2	0.2	0.2	0.0007	0.0009	0.0034	0.0097	0.0188	06:09:37	Yes
Mean:	0.3	0.3	0.0009						
SD :	0.12	0.12	0.0002						
%RSD:	38.99	38.99	22.61						

=====  
 Element: Tl    Seq. No.: 61    AS Loc.: 33    Date: 06/26/2006  
 Sample ID: 0606346-08 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 33  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	0.0011	0.0013	0.0043	0.0098	0.0180	06:12:27	Yes



Tl

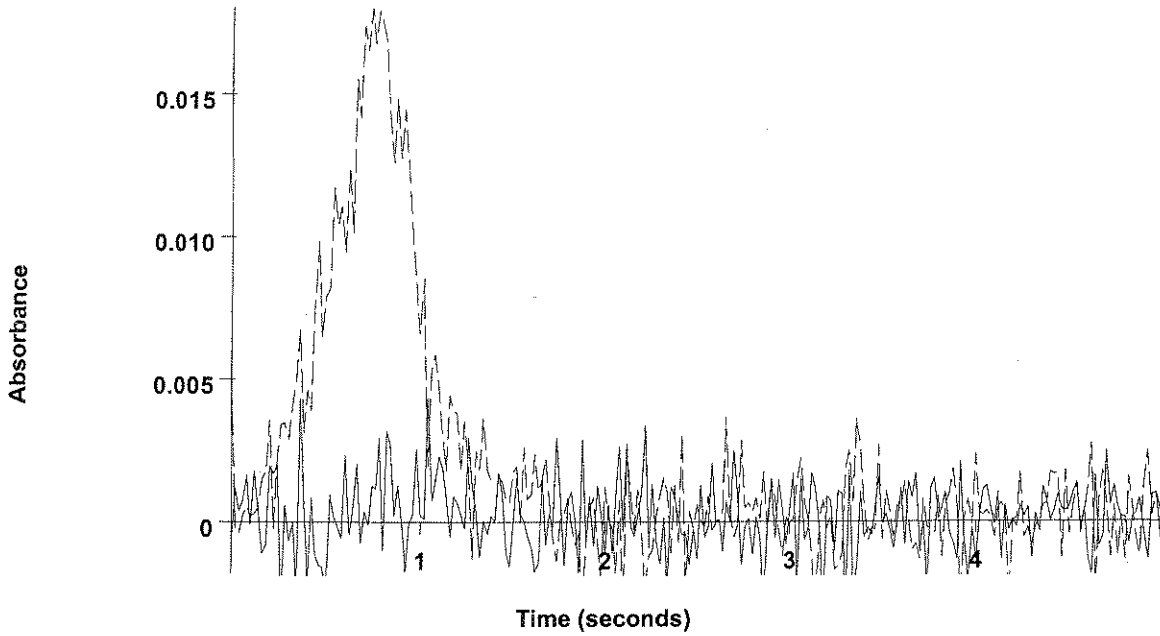


2	-0.1	-0.1	0.0003	0.0005	0.0055	0.0102	0.0197	06:15:18	Yes
Mean:	0.2	0.2	0.0007						
SD :	0.37	0.37	0.0006						
%RSD:	189.7	189.7	89.48						

=====  
 Element: Tl      Seq. No.: 62      AS Loc.: 34      Date: 06/26/2006  
 Sample ID: 0606346-09 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 34  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.3	0.3	0.0009	0.0011	0.0044	0.0106	0.0180	06:18:08	Yes

TI



0606346-09 dis  
(Replicate 1)  
(AA)

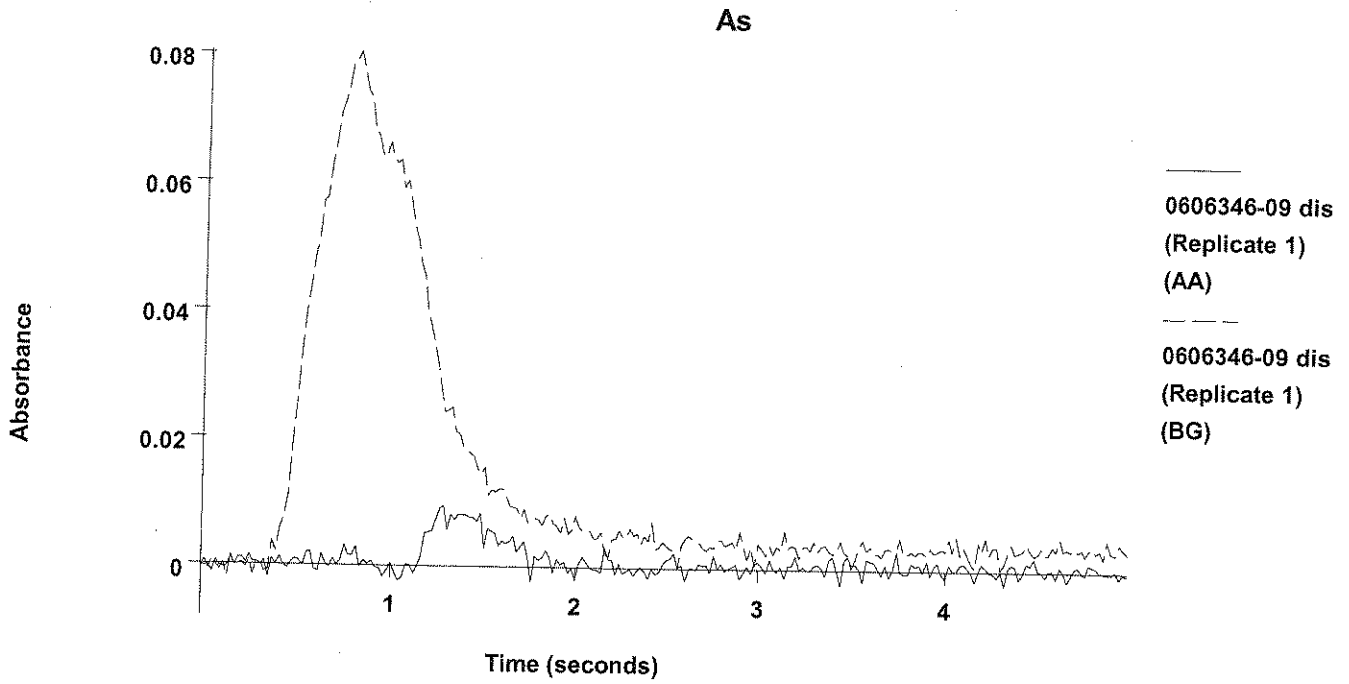
0606346-09 dis  
(Replicate 1)  
(BG)

2	0.5	0.5	0.0012	0.0014	0.0044	0.0073	0.0180	06:20:58	Yes
Mean:	0.4	0.4	0.0011						
SD :	0.15	0.15	0.0002						
%RSD:	35.69	35.69	23.42						

*Handwritten mark resembling a stylized 'A' or '7' with an arrow pointing to the right.*

=====  
 Element: TI    Seq. No.: 63    AS Loc.: 35    Date: 06/26/2006  
 Sample ID: 0606346-10 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 35  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	0.0004	0.0006	0.0056	0.0102	0.0193	06:23:48	Yes



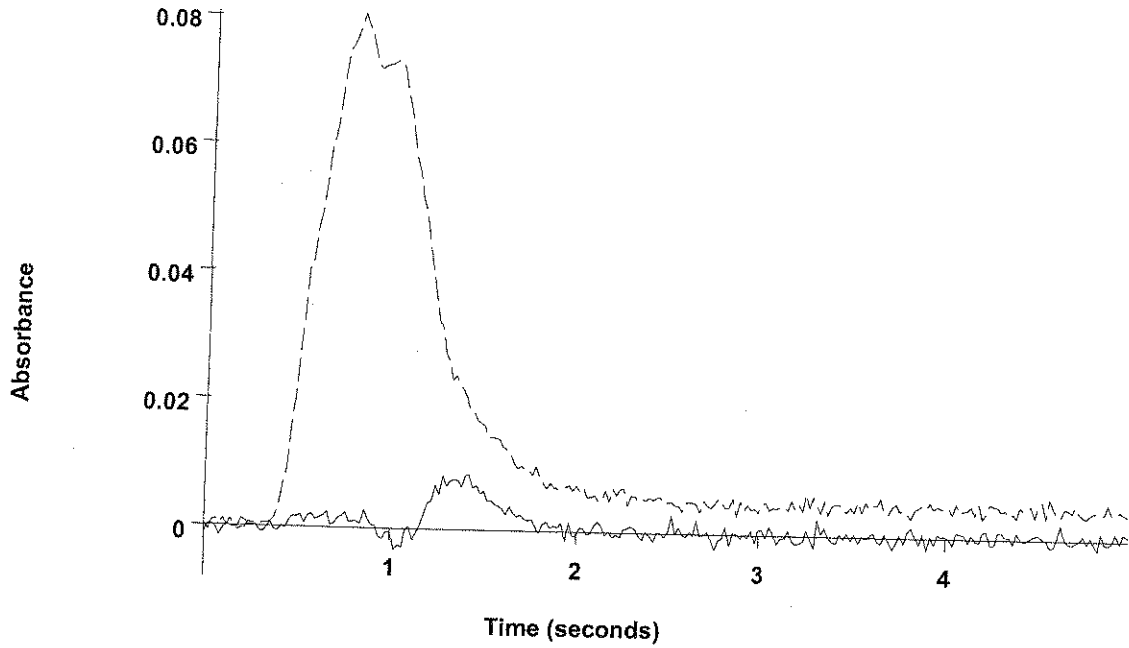
2	1.0	1.0	0.0043	0.0056	0.0093	0.0627	0.0695	05:38:54	Yes
Mean:	0.9	0.9	0.0038						
SD :	0.21	0.21	0.0008						
%RSD:	24.8	24.8	20.17						

*M*

=====  
 Element: As    Seq. No.: 181    AS Loc.: 35    Date: 06/27/2006  
 Sample ID: 0606346-10 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 35  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0023	0.0036	0.0086	0.0723	0.0805	05:41:44	Yes

As



0606346-10 dis  
(Replicate 1)  
(AA)  
0606346-10 dis  
(Replicate 1)  
(BG)

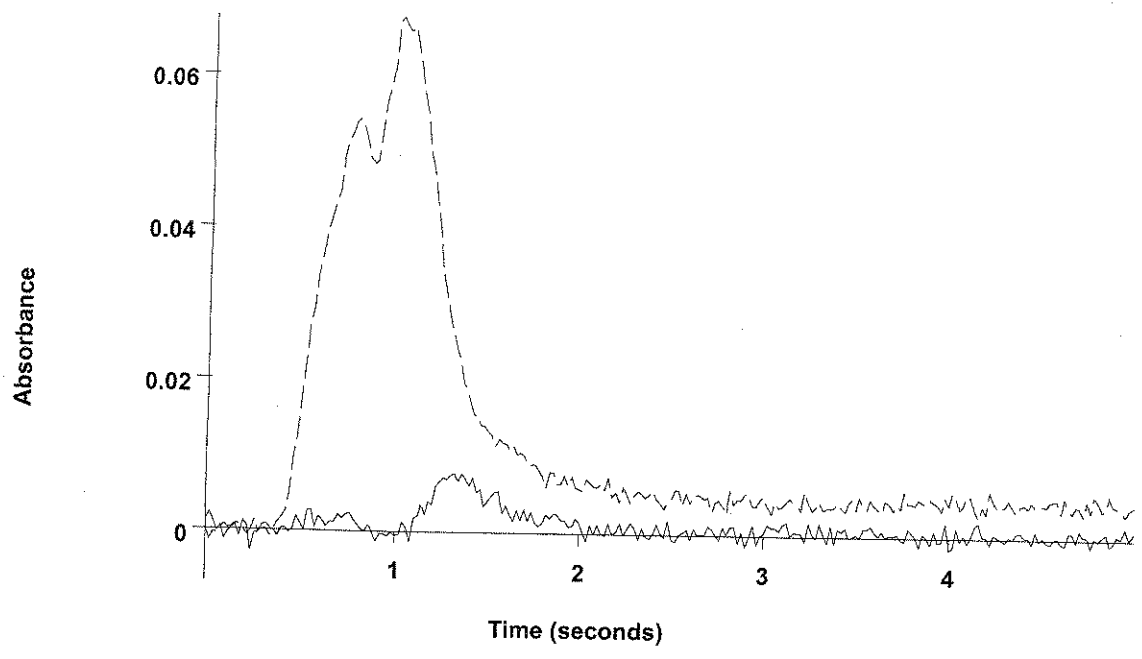
2	0.8	0.8	0.0036	0.0049	0.0101	0.0711	0.0720	05:44:34	Yes
Mean:	0.6	0.6	0.0030						
SD :	0.26	0.26	0.0010						
%RSD:	42.4	42.4	32.29						

*M*

=====  
 Element: As    Seq. No.: 182    AS Loc.: 36    Date: 06/27/2006  
 Sample ID: 0606346-11 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 36  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.8	0.8	0.0037	0.0050	0.0077	0.0615	0.0677	05:47:25	Yes

As



0606346-11 dis  
(Replicate 1)  
(AA)

0606346-11 dis  
(Replicate 1)  
(BG)

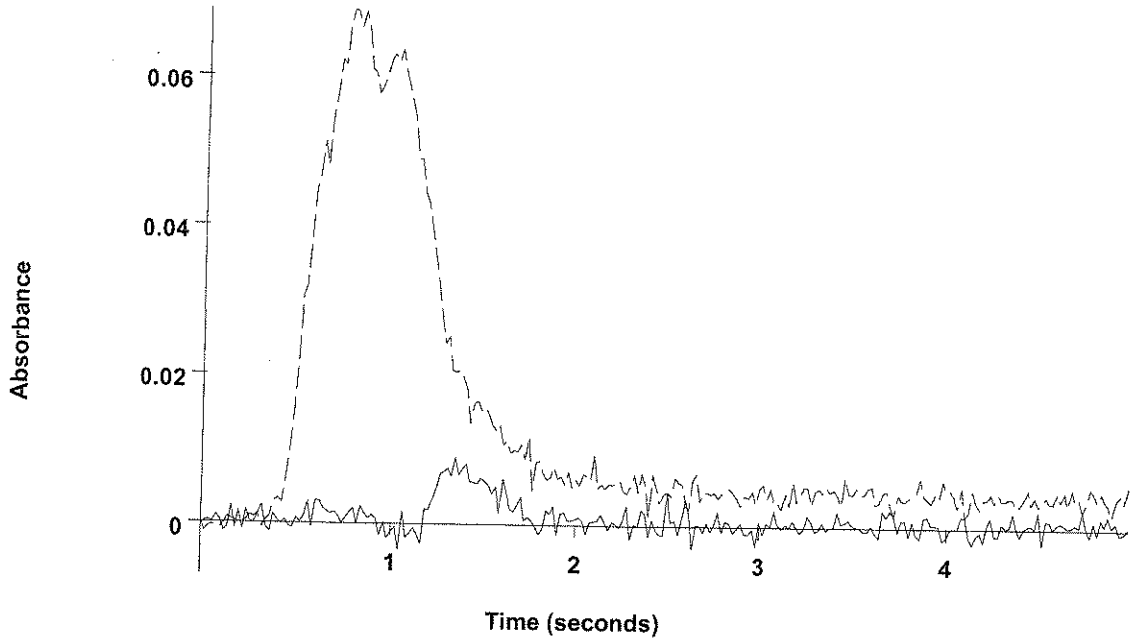
2	0.6	0.6	0.0030	0.0043	0.0079	0.0633	0.0707	05:50:16	Yes
Mean:	0.7	0.7	0.0034						
SD :	0.13	0.13	0.0005						
%RSD:	17.4	17.4	13.74						

*Handwritten signature/initials*

=====  
 Element: As    Seq. No.: 183    AS Loc.: 37    Date: 06/27/2006  
 Sample ID: 0606346-13 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 37  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	0.0029	0.0042	0.0090	0.0642	0.0689	05:53:06	Yes

As



-----  
 0606346-13 dis  
 (Replicate 1)  
 (AA)  
 -----  
 0606346-13 dis  
 (Replicate 1)  
 (BG)

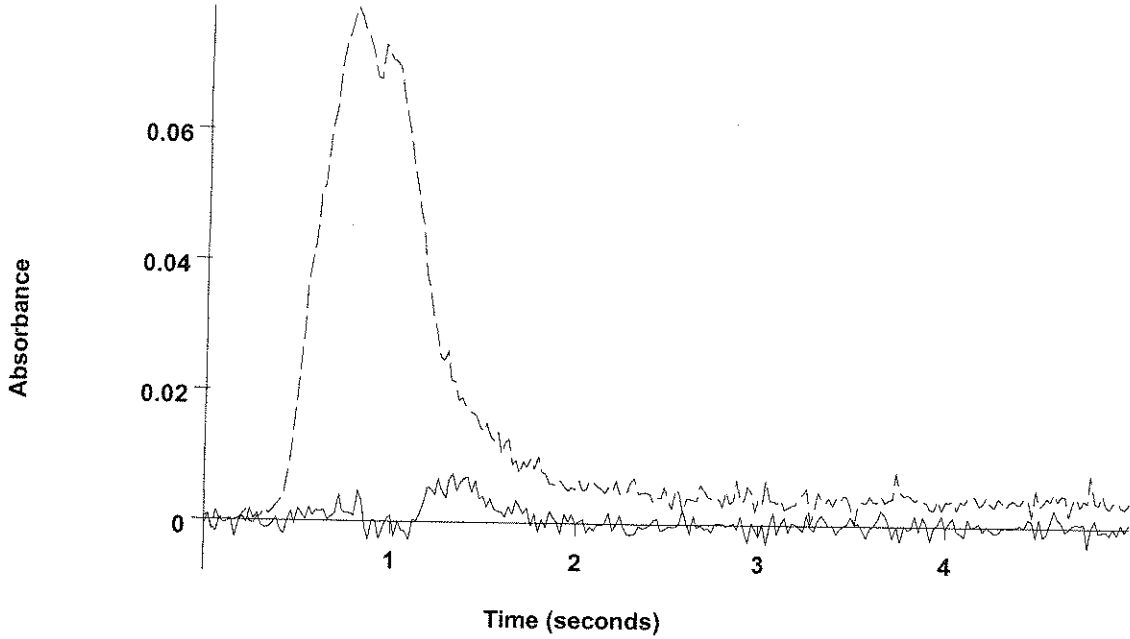
2	0.6	0.6	0.0028	0.0041	0.0085	0.0605	0.0717	05:55:56	Yes
Mean:	0.6	0.6	0.0029						
SD :	0.01	0.01	0.0000						
%RSD:	1.62	1.62	1.22						

*Handwritten signature*

=====  
 Element: As    Seq. No.: 184    AS Loc.: 38    Date: 06/27/2006  
 Sample ID: 0606346-14 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 38  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0012	0.0025	0.0074	0.0673	0.0788	05:58:47	Yes

As



0606346-14 dis  
(Replicate 1)  
(AA)  
0606346-14 dis  
(Replicate 1)  
(BG)

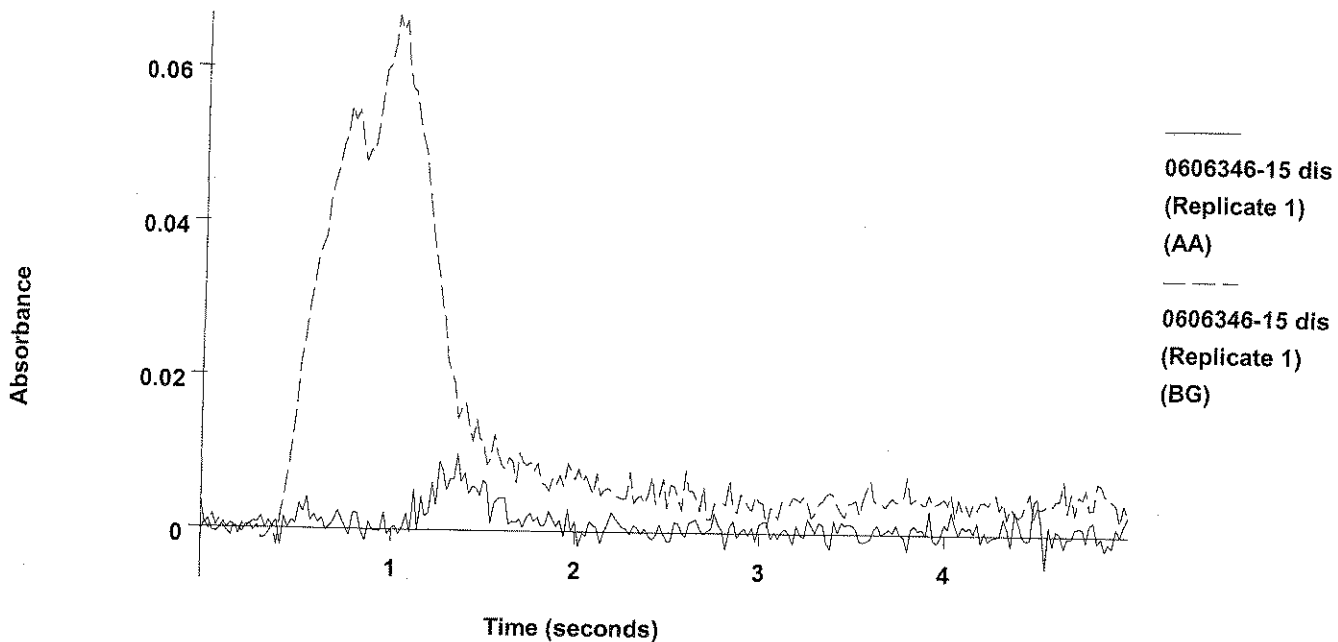
2	0.3	0.3	0.0018	0.0030	0.0061	0.0600	0.0678	06:01:37	Yes
Mean:	0.2	0.2	0.0015						
SD :	0.11	0.11	0.0004						
%RSD:	51.7	51.7	27.00						

*PD*

=====  
Element: As    Seq. No.: 185    AS Loc.: 39    Date: 06/27/2006  
Sample ID: 0606346-15 dis  
µL dispensed: 10 from 148, 5 from 147, 15 from 39  
=====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.9	0.9	0.0038	0.0051	0.0100	0.0582	0.0669	06:04:27	Yes

As



2	0.9	0.9	0.0039	0.0052	0.0088	0.0664	0.0807	06:07:18	Yes
Mean:	0.9	0.9	0.0038						
SD :	0.02	0.02	0.0001						
%RSD:	2.02	2.02	1.65						

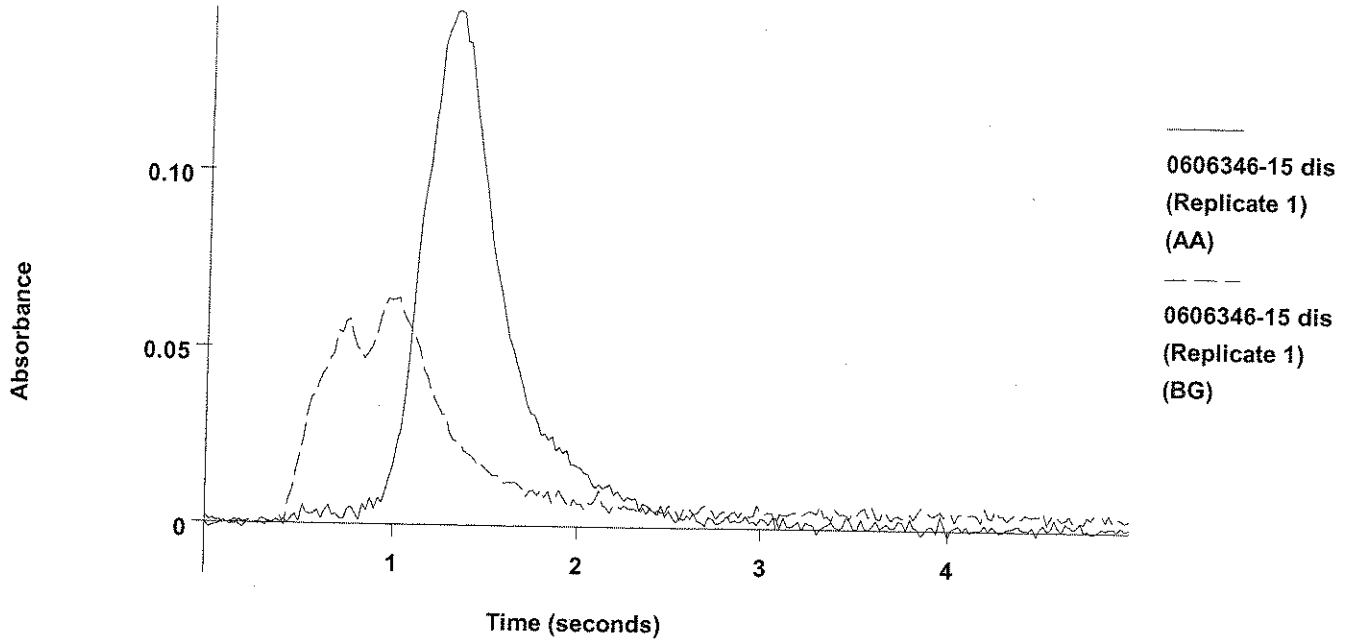
*Handwritten initials*

=====  
 Element: As    Seq. No.: 186    AS Loc.: 39    Date: 06/27/2006  
 Sample ID: 0606346-15 dis  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 39  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	21.7	21.7	0.0795	0.0808	0.1454	0.0620	0.0644	06:10:17	Yes



As



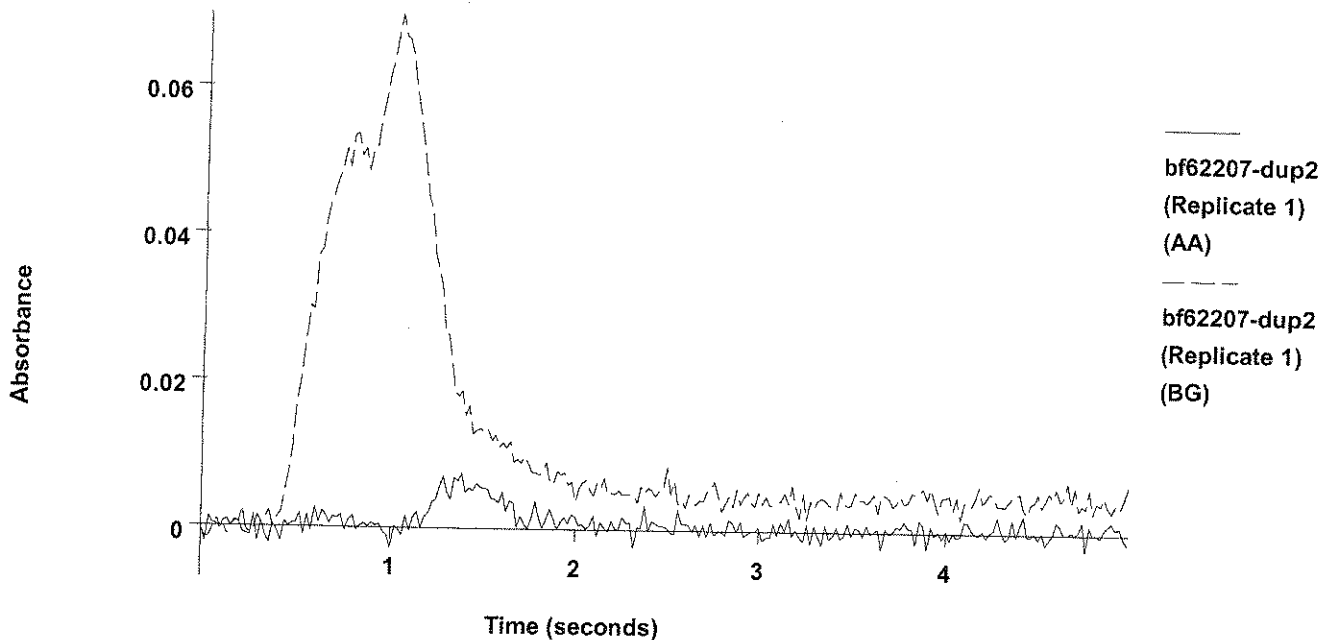
2	21.3	21.3	0.0780	0.0793	0.1277	0.0628	0.0603	06:13:16	Yes
Mean:	21.5	21.5	0.0788						
SD :	0.29	0.29	0.0011						
%RSD:	1.35	1.35	1.33						

Recovery for As = 107.5 % within 85 % to 115 %

=====  
 Element: As    Seq. No.: 187    AS Loc.: 40    Date: 06/27/2006  
 Sample ID: bf62207-dup2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 40  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	0.0026	0.0038	0.0075	0.0606	0.0699	06:16:06	Yes

As

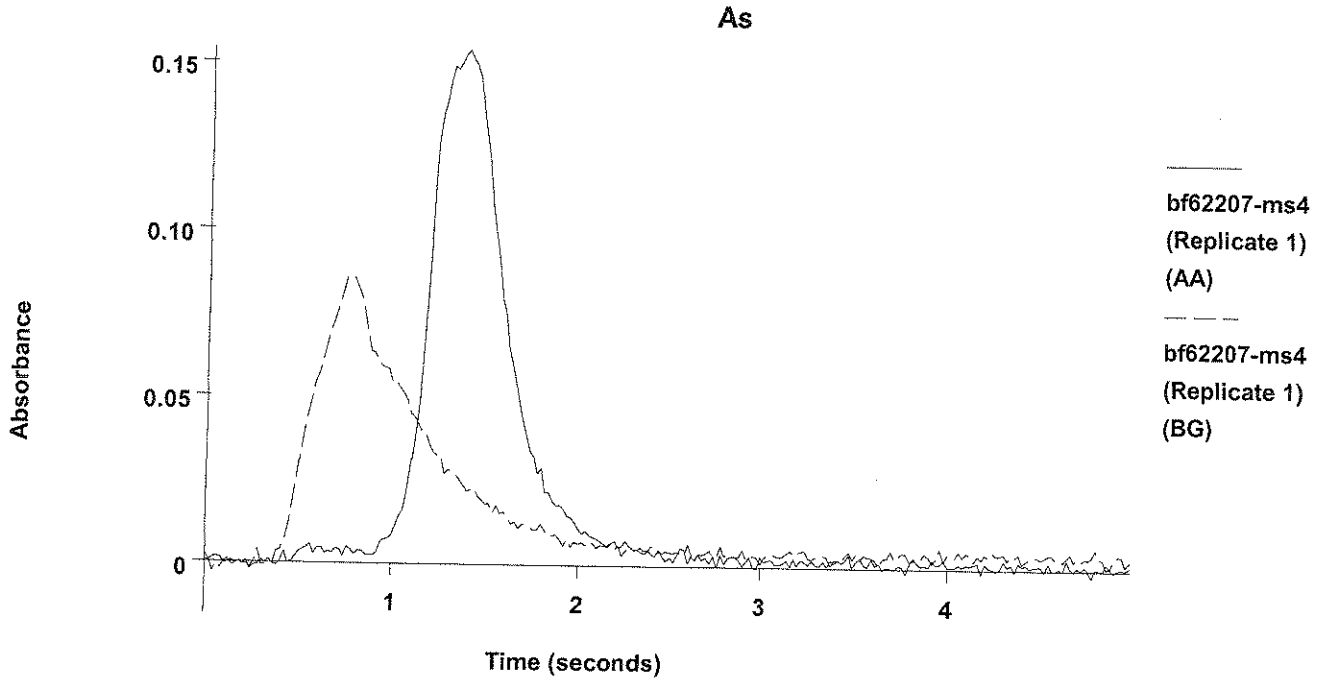


2	0.9	0.9	0.0039	0.0051	0.0091	0.0586	0.0695	06:18:56	Yes
Mean:	0.7	0.7	0.0032						
SD :	0.25	0.25	0.0009						
%RSD:	36.8	36.8	28.74						

*Handwritten signature or initials*

=====  
 Element: As    Seq. No.: 188    AS Loc.: 41    Date: 06/27/2006  
 Sample ID: bf62207-ms4  
 µL dispensed: 10 from 148, 5 from 147, 15 from 41  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	21.6	21.6	0.0793	0.0805	0.1540	0.0689	0.0857	06:21:47	Yes



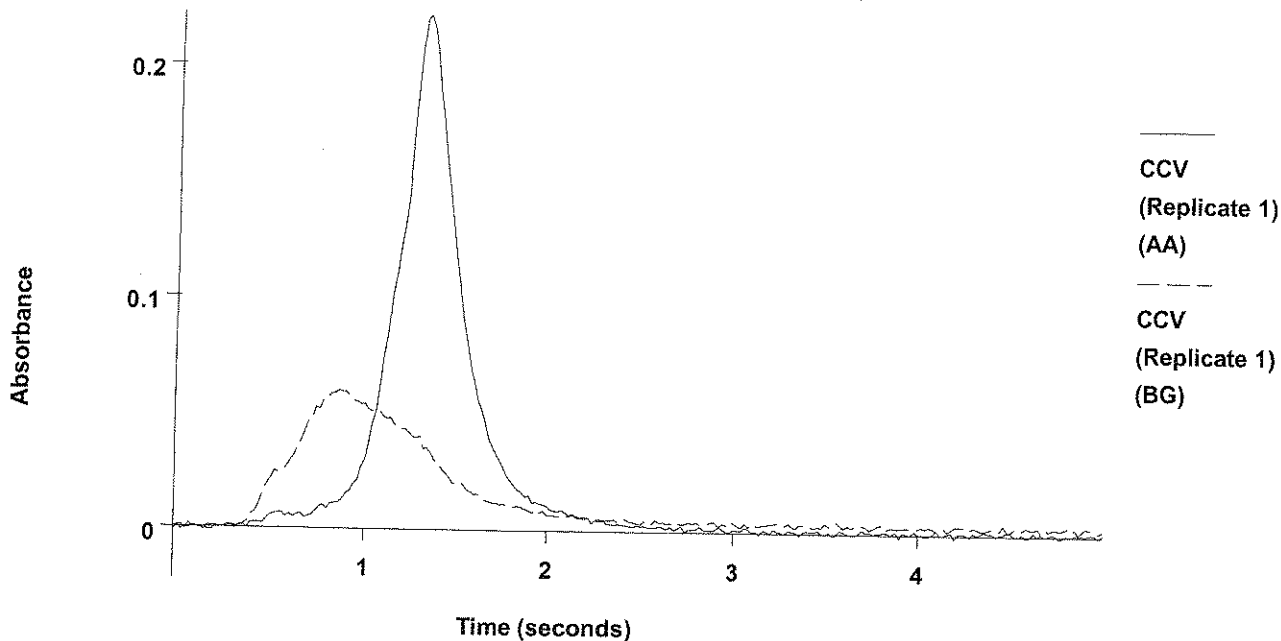
2	21.4	21.4	0.0783	0.0796	0.1605	0.0670	0.0769	06:24:36	Yes
Mean:	21.5	21.5	0.0788						
SD :	0.18	0.18	0.0007						
%RSD:	0.85	0.85	0.84						

1085

=====  
 Element: As    Seq. No.: 189    AS Loc.: 126    Date: 06/27/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.2	26.2	0.0959	0.0972	0.2218	0.0611	0.0599	06:27:28	Yes

As



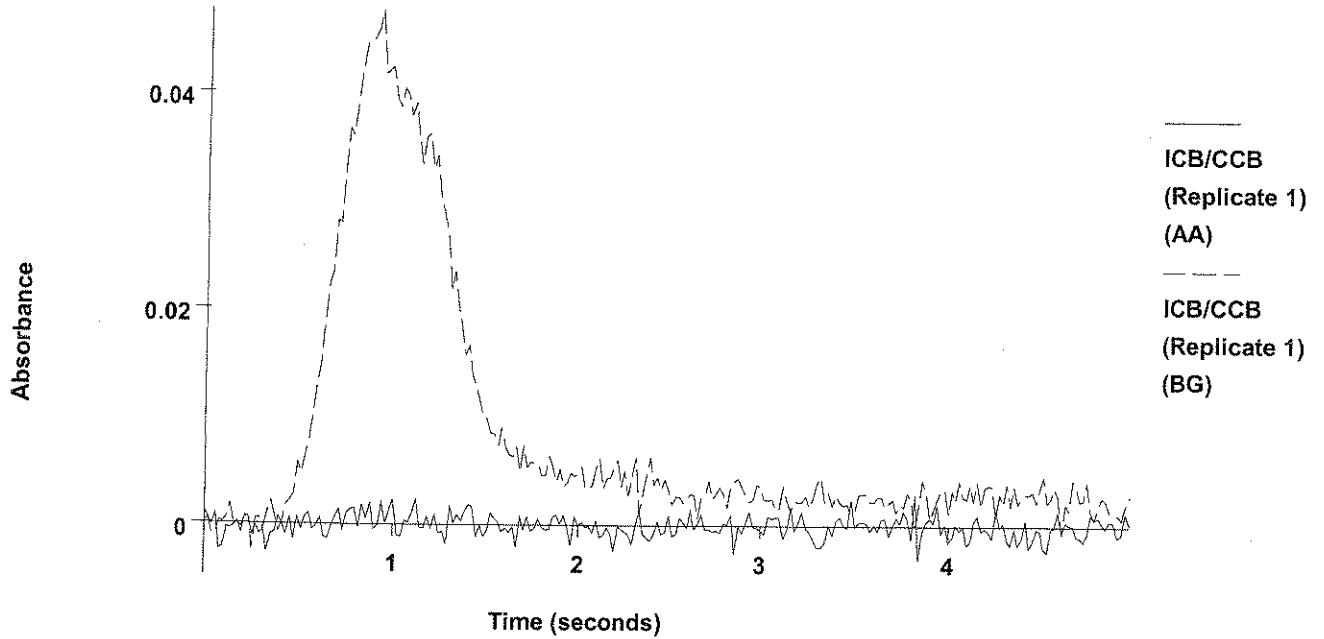
2	25.6	25.6	0.0935	0.0947	0.1955	0.0590	0.0677	06:30:22	Yes
Mean:	25.9	25.9	0.0947						
SD :	0.48	0.48	0.0018						
%RSD:	1.87	1.87	1.85						

QC value within specified limits. ✓

=====  
 Element: As    Seq. No.: 190    AS Loc.: 148    Date: 06/27/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0017	-0.0004	0.0030	0.0403	0.0476	06:33:13	Yes

As



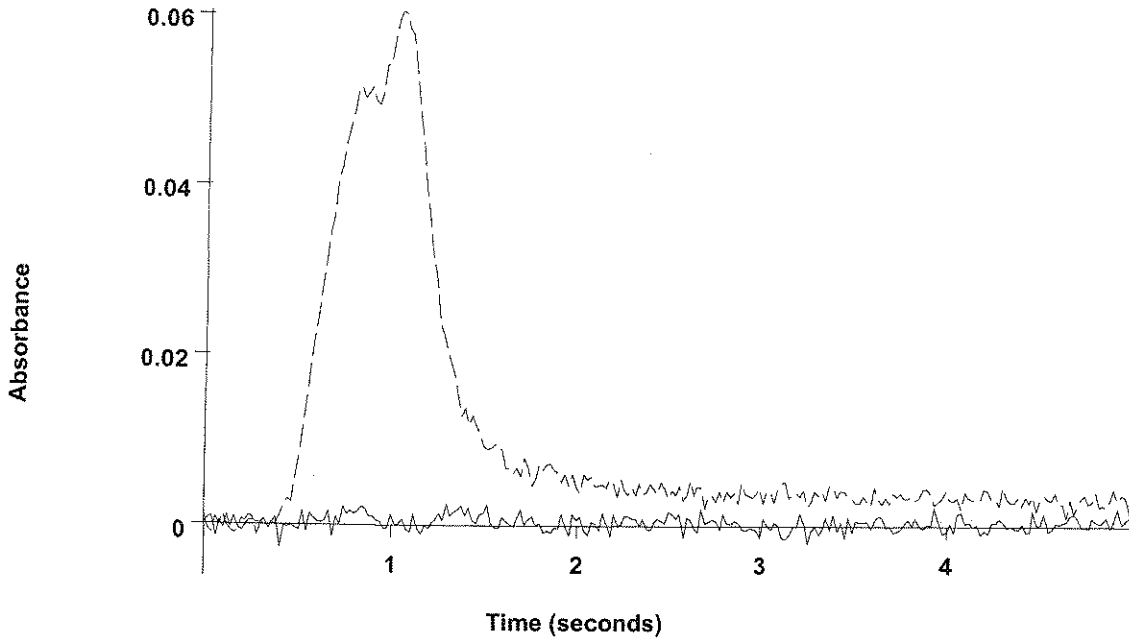
2	-0.2	-0.2	0.0001	0.0014	0.0042	0.0409	0.0494	06:36:02	Yes
Mean:	-0.4	-0.4	-0.0008						
SD :	0.37	0.37	0.0013						
%RSD:	88.4	88.4	167.18						

QC value within specified limits. ✓

=====  
 Element: As    Seq. No.: 191    AS Loc.: 42    Date: 06/27/2006  
 Sample ID: bf62207-sd2 x5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 42  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	0.0005	0.0017	0.0025	0.0507	0.0604	06:38:51	Yes

As



-----  
 bf62207-sd2 x5  
 (Replicate 1)  
 (AA)  
 -----  
 bf62207-sd2 x5  
 (Replicate 1)  
 (BG)

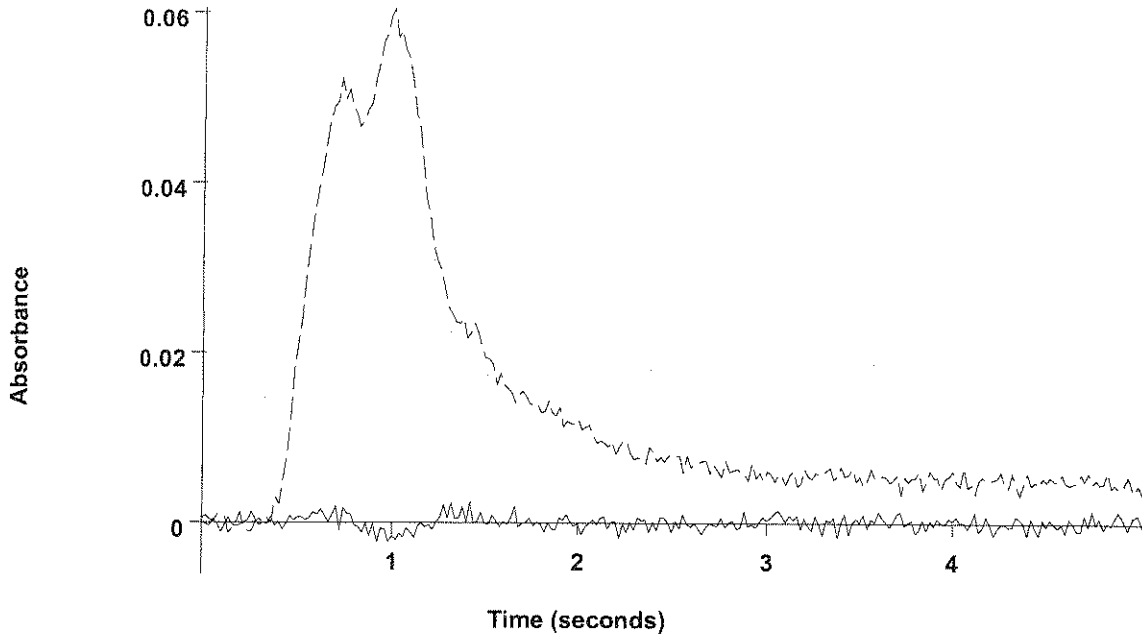
2	-0.4	-0.4	-0.0006	0.0007	0.0042	0.0534	0.0620	06:41:41	Yes
Mean:	-0.2	-0.2	-0.0001						
SD :	0.20	0.20	0.0007						
%RSD:	96.7	96.7	1274.73						

*M*

=====  
 Element: As    Seq. No.: 192    AS Loc.: 43    Date: 06/27/2006  
 Sample ID: bf62301-blk1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 43  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0013	0.0026	0.0036	0.0561	0.0637	06:44:30	Yes

As



bf62301-sd2 x5  
(Replicate 1)  
(AA)  
bf62301-sd2 x5  
(Replicate 1)  
(BG)

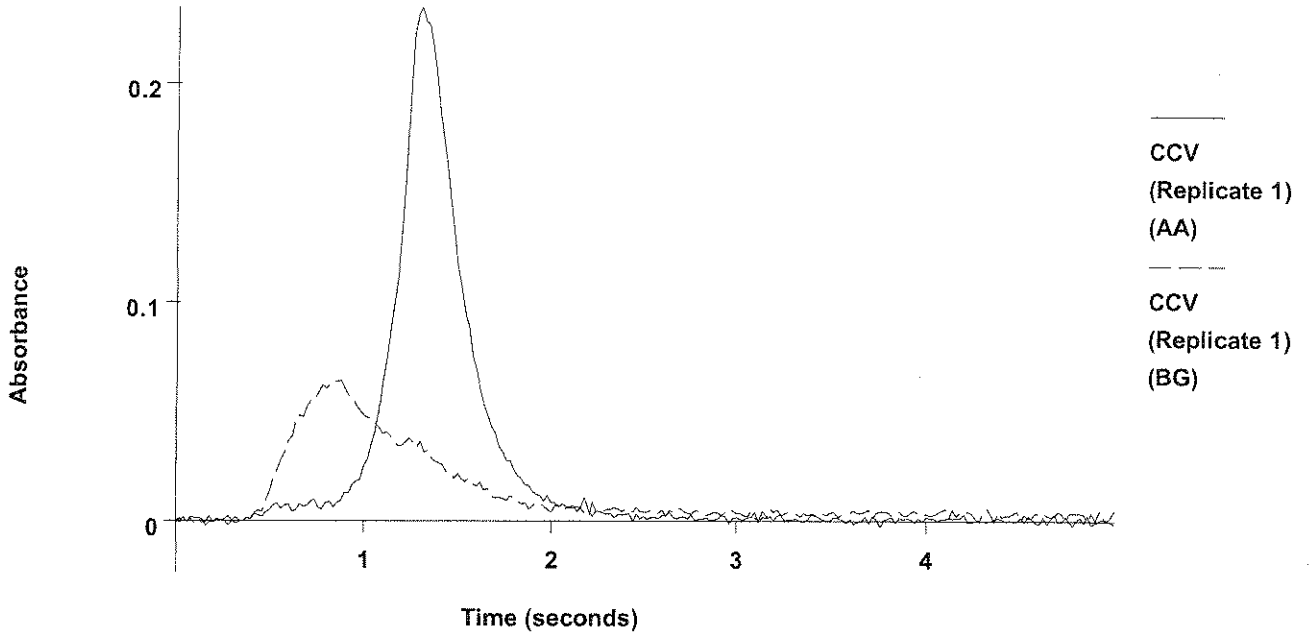
2	-0.5	-0.5	-0.0012	0.0000	0.0020	0.0703	0.0648	07:44:39	Yes
Mean:	-0.5	-0.5	-0.0012						
SD :	0.02	0.02	0.0001						
%RSD:	4.61	4.61	7.38						

*Handwritten initials*

=====  
Element: As    Seq. No.: 203    AS Loc.: 126    Date: 06/27/2006  
Sample ID: CCV  
µL dispensed: 10 from 148, 5 from 147, 15 from 126  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.0	27.0	0.0988	0.1001	0.2347	0.0590	0.0640	07:47:30	Yes

As



2	26.2	26.2	0.0958	0.0971	0.2314	0.0558	0.0593	07:50:22	Yes
Mean:	26.6	26.6	0.0973						
SD :	0.57	0.57	0.0021						
%RSD:	2.15	2.15	2.13						

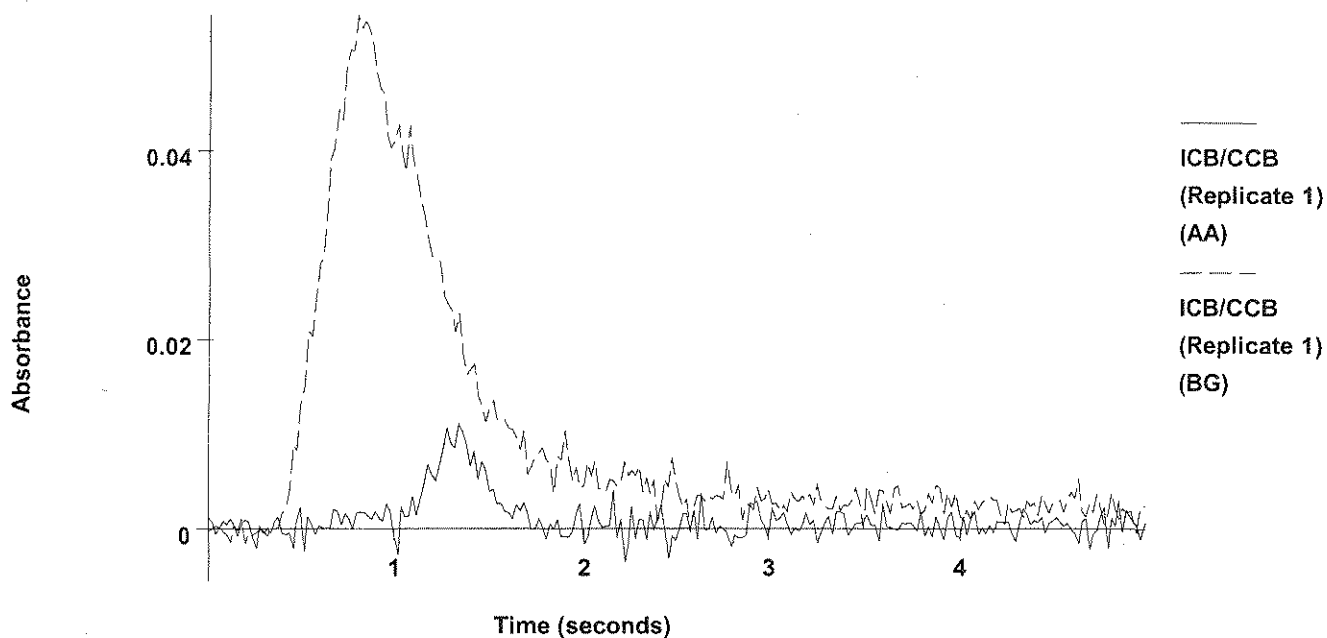
QC value within specified limits. ✓

=====  
 Element: As    Seq. No.: 204    AS Loc.: 148    Date: 06/27/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.8	0.8	0.0036	0.0049	0.0111	0.0474	0.0544	07:53:13	Yes



As



2	-0.2	-0.2	0.0001	0.0013	0.0046	0.0438	0.0494	07:56:03	Yes
Mean:	0.3	0.3	0.0019						
SD :	0.70	0.70	0.0025						
%RSD:	222	222	137.10						

QC value within specified limits. ✓

=====  
 Element: As    Seq. No.: 205    AS Loc.: 54    Date: 06/27/2006  
 Sample ID: bf62302-blk1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 54  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	0.0002	0.0015	0.0037	0.0378	0.0480	07:58:51	Yes

Method Name: Pb 2  
 Method Description: Pb  
 Element: Pb

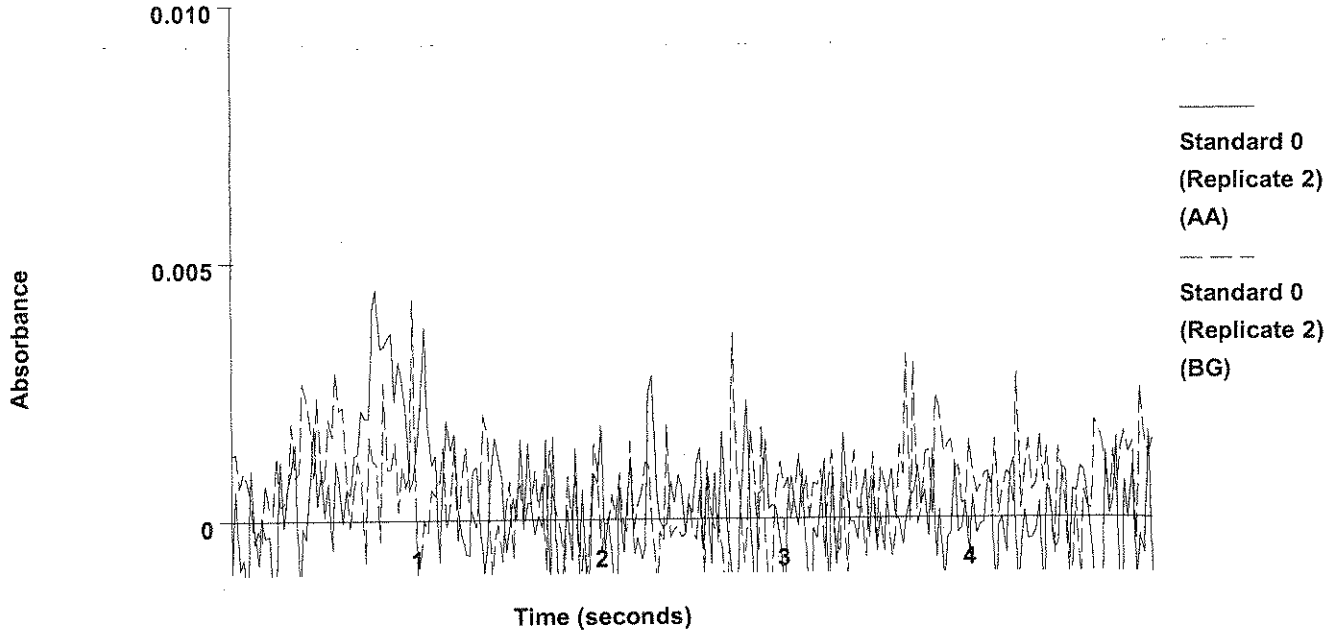
Date: 06/27/2006  
 Technique: Furnace  
 Calibration Type:  
 Pb, Calc. Intercept : Linear  
 Wavelength: 283.3 nm  
 Energy: 100  
 Slit Width: 0.7  
 Lamp Current: 10 mA  
 Sample Info Name: 062606YA.SIF

Results Data Set Name: 062606yad

Element: Pb Seq. No.: 240 AS Loc.: 141 Date: 06/27/2006  
 Sample ID: Standard 0  
 µL dispensed: 10 from 141, 5 from 146, 15 from 141

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0015	0.0015	0.0051	0.0017	0.0025	11:20:35	Yes
2			0.0015	0.0015	0.0045	0.0029	0.0043	11:23:27	Yes

**Pb**

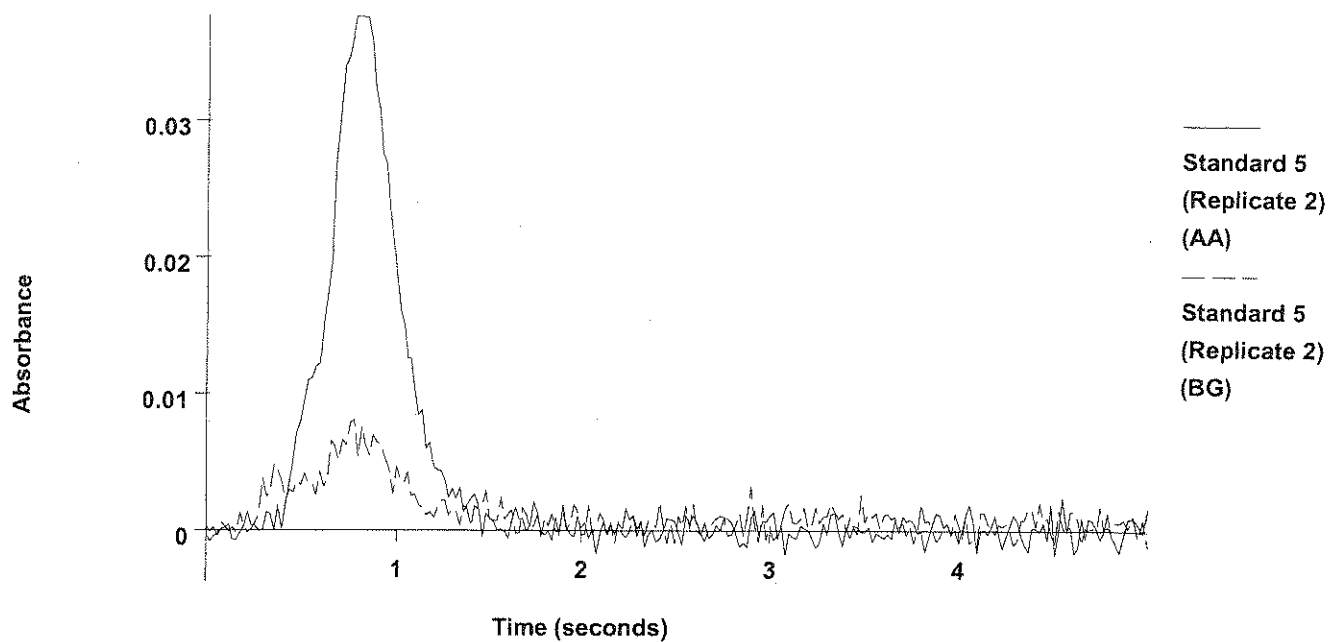


Mean: 0.0015  
 SD : 0.0000  
 %RSD: 2.29  
 Auto-zero performed.

Element: Pb Seq. No.: 241 AS Loc.: 121 Date: 06/27/2006  
 Sample ID: Standard 5  
 µL dispensed: 10 from 141, 5 from 146, 15 from 121

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0156	0.0171	0.0432	0.0051	0.0112	11:26:46	Yes
2			0.0151	0.0166	0.0376	0.0062	0.0081	11:29:38	Yes

Pb



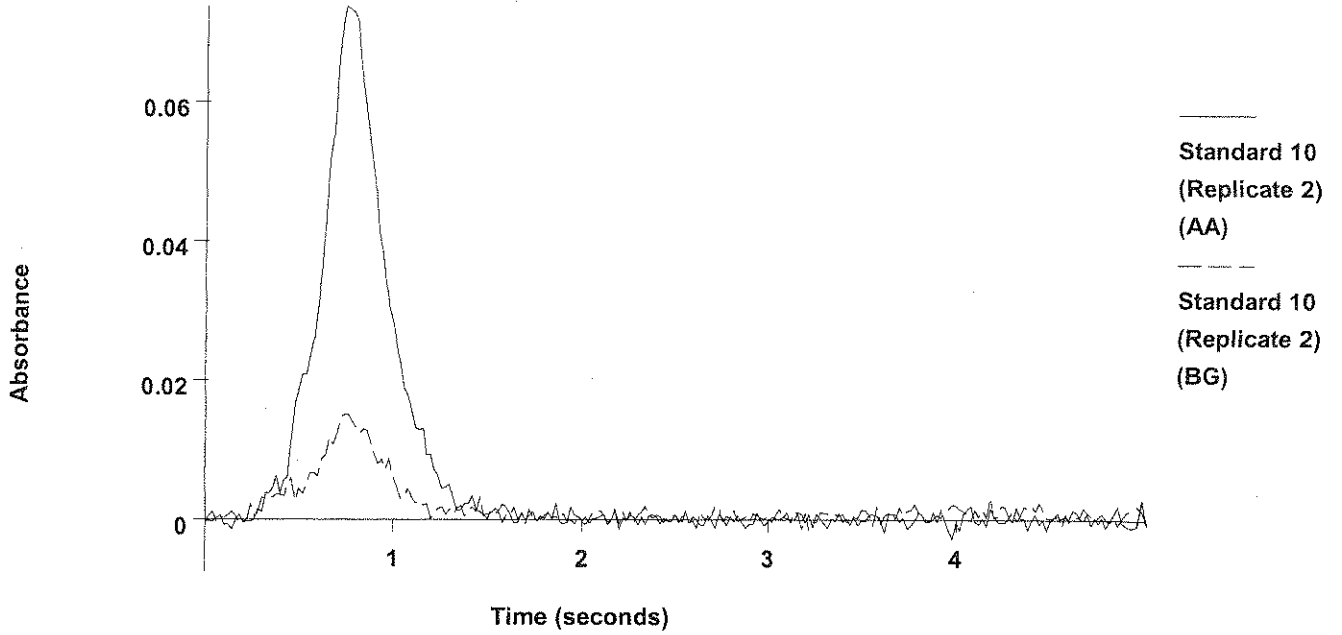
Mean: 0.0154  
 SD : 0.0004  
 %RSD: 2.44  
 [Pb] Standard number 1 applied. [5.0]  
 Correlation Coefficient: 1.00000  
 Intercept : 0.00000

Slope: 0.00308

=====  
 Element: Pb Seq. No.: 242 AS Loc.: 124 Date: 06/27/2006  
 Sample ID: Standard 10  
 µL dispensed: 10 from 141, 5 from 146, 15 from 124  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0287	0.0302	0.0736	0.0079	0.0154	11:33:00	Yes
2			0.0286	0.0301	0.0737	0.0090	0.0152	11:35:54	Yes

Pb



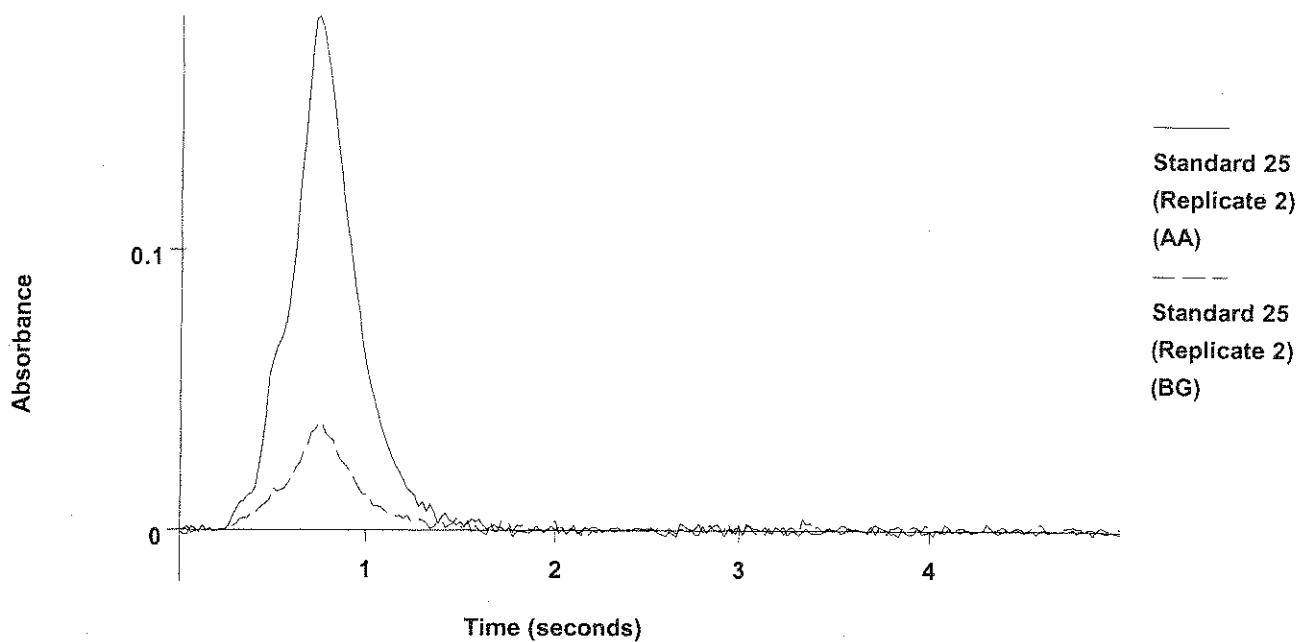
Mean: 0.0286  
 SD : 0.0001  
 %RSD: 0.20  
 [Pb] Standard number 2 applied. [10.0]  
 Correlation Coefficient: 0.99908  
 Intercept : 0.00035

Slope: 0.00286

=====  
 Element: Pb Seq. No.: 243 AS Loc.: 126 Date: 06/27/2006  
 Sample ID: Standard 25  
 µL dispensed: 10 from 141, 5 from 146, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0746	0.0761	0.1733	0.0179	0.0343	11:39:14	Yes
2			0.0730	0.0745	0.1834	0.0177	0.0381	11:42:09	Yes

Pb

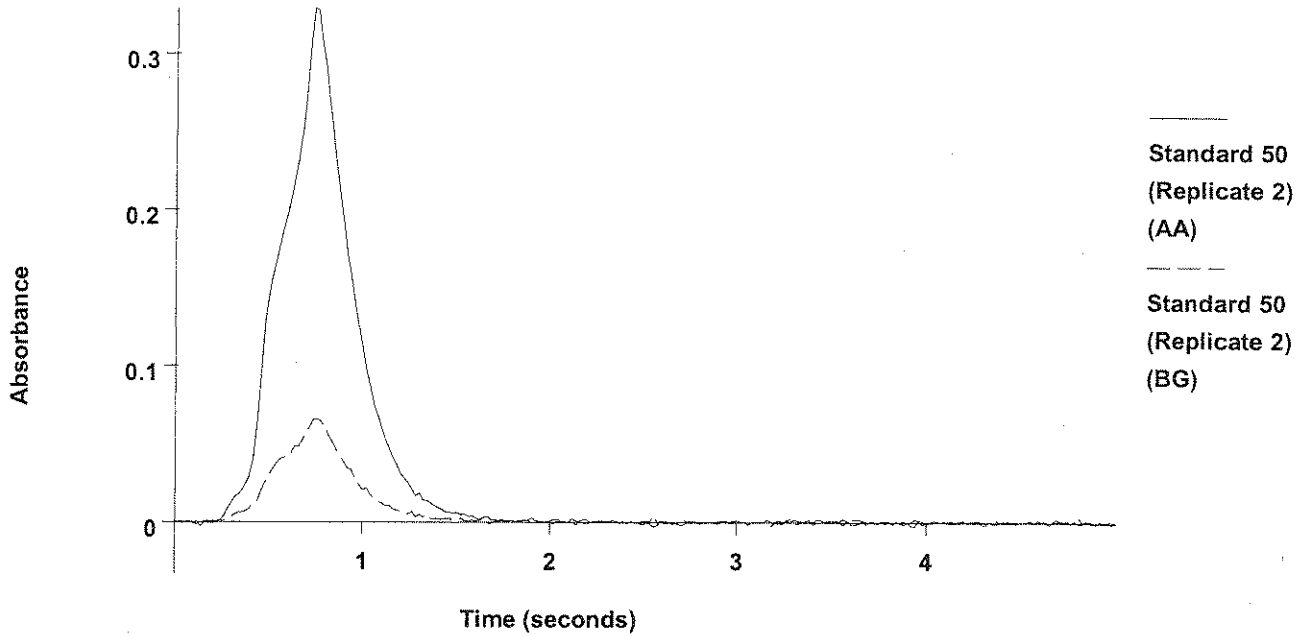


Mean: 0.0738  
 SD : 0.0011  
 %RSD: 1.52  
 [Pb] Standard number 3 applied. [25.0]  
 Correlation Coefficient: 0.99981 Slope: 0.00294  
 Intercept : 0.00002

=====  
 Element: Pb Seq. No.: 244 AS Loc.: 129 Date: 06/27/2006  
 Sample ID: Standard 50  
 µL dispensed: 10 from 141, 5 from 146, 15 from 129

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.1350	0.1364	0.3278	0.0304	0.0668	11:45:28	Yes
2			0.1372	0.1387	0.3291	0.0304	0.0659	11:48:21	Yes

Pb

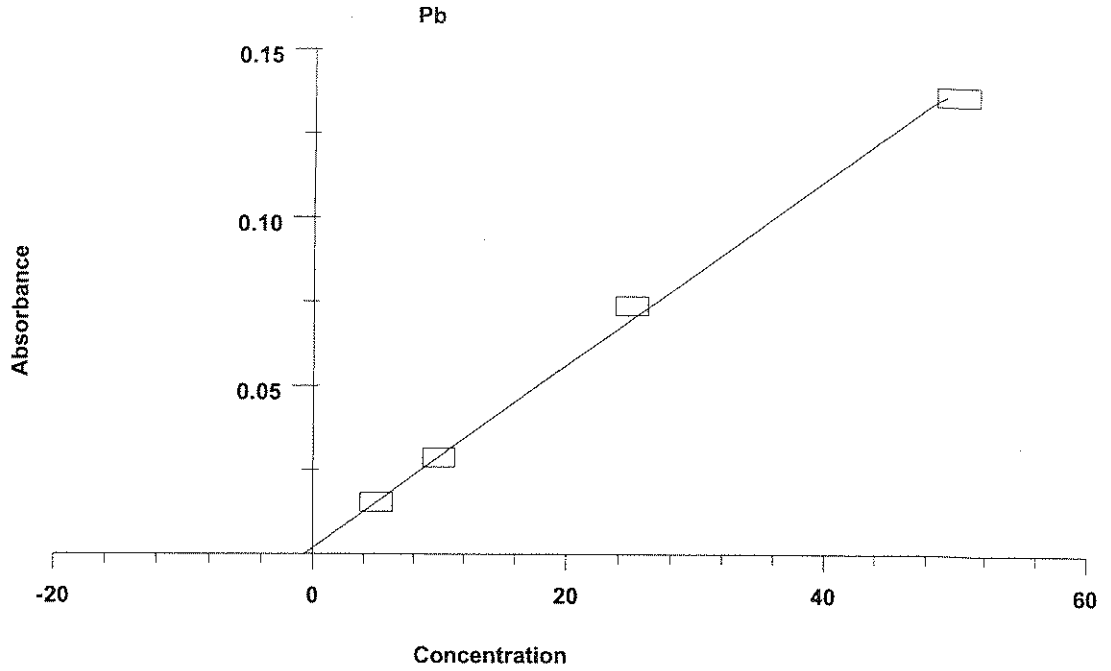


Mean: 0.1361  
 SD : 0.0016  
 %RSD: 1.15  
 [Pb] Standard number 4 applied. [50.0]  
 Correlation Coefficient: 0.99907 Slope: 0.00273  
 Intercept : 0.00173

Calibration data for Pb

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	0.0015	-	----	----	----
Standard 5	0.0154	5.0	5.0	0.00	2.44
Standard 10	0.0286	10.0	9.9	0.00	0.20
Standard 25	0.0738	25.0	26.5	0.00	1.52
Standard 50	0.1361	50.0	49.3	0.00	1.15
Correlation Coefficient: 0.99907		Slope:	0.00273	Intercept: 0.0017	

*Cal good  
JH 4/27/06*



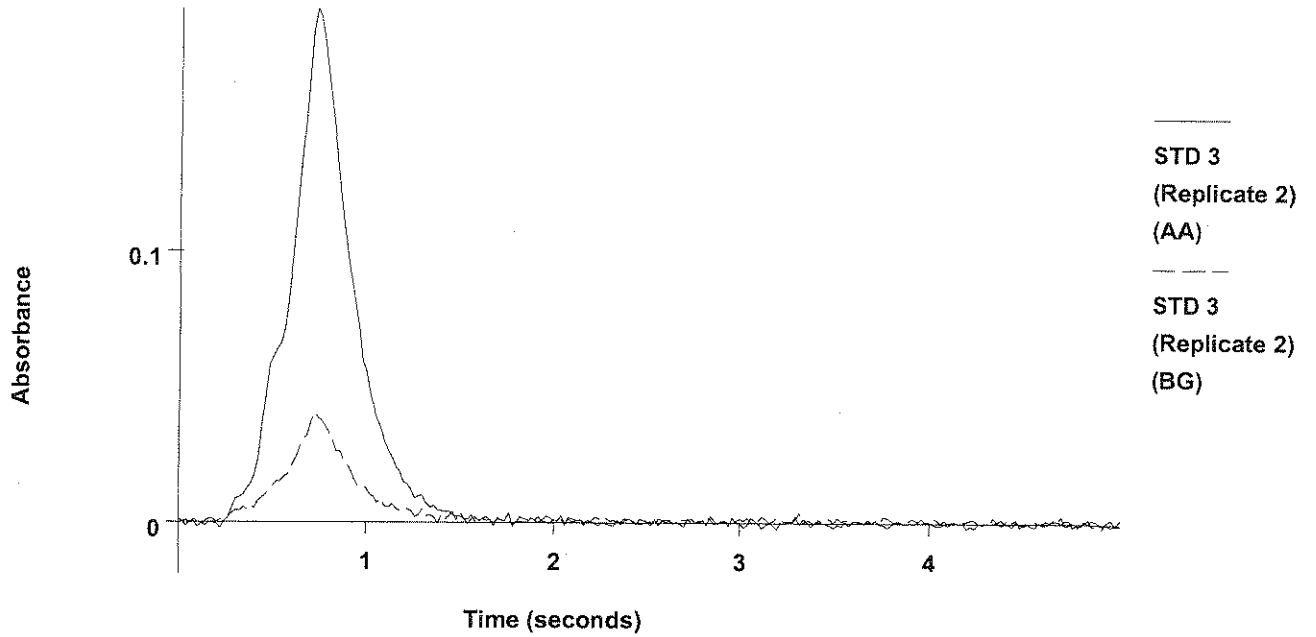
```

=====
Element: Pb   Seq. No.: 245   AS Loc.: 126   Date: 06/27/2006
Sample ID: STD 3
µL dispensed: 10 from 141, 5 from 146, 15 from 126
=====

```

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.2	26.2	0.0732	0.0747	0.1722	0.0178	0.0349	11:51:20	Yes
2	25.8	25.8	0.0720	0.0735	0.1891	0.0192	0.0403	11:54:13	Yes

Pb



Mean: 26.0 26.0 0.0726  
 SD : 0.32 0.32 0.0009  
 %RSD: 1.21 1.21 1.18  
 QC value within specified limits.

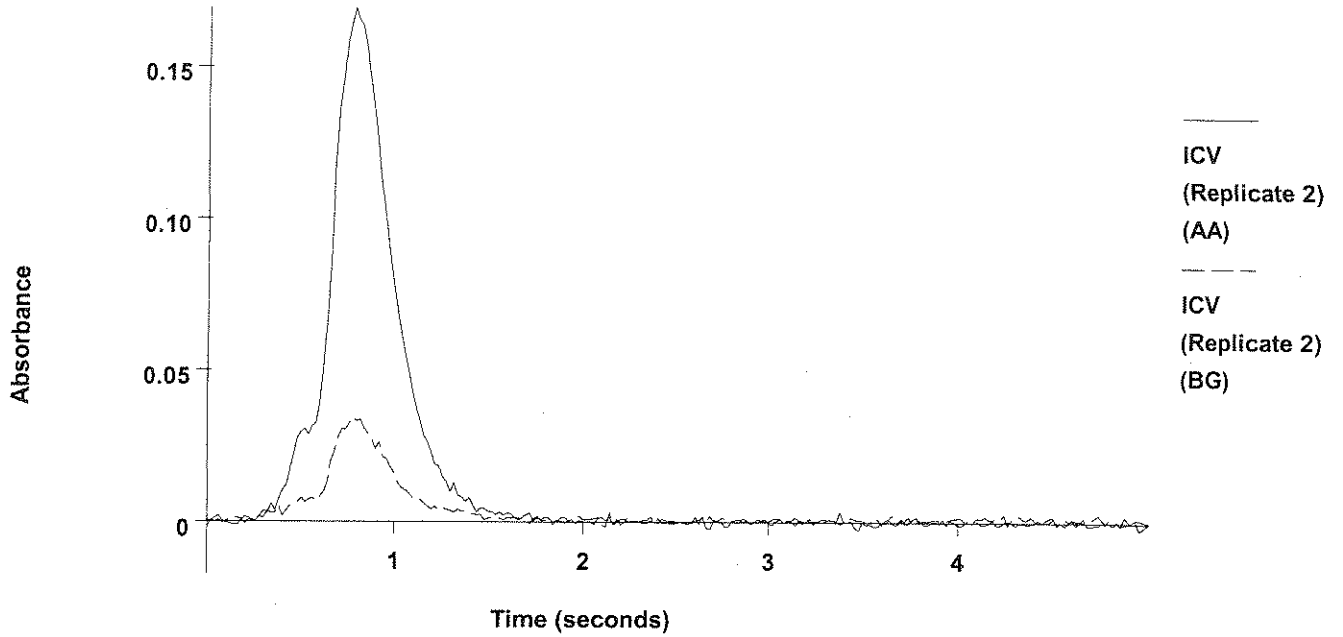
1045 ✓

=====  
 Element: Pb Seq. No.: 246 AS Loc.: 134 Date: 06/27/2006  
 Sample ID: ICV  
 µL dispensed: 10 from 141, 5 from 146, 15 from 134  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.2	24.2	0.0677	0.0692	0.1775	0.0165	0.0362	11:57:06	Yes
2	23.7	23.7	0.0663	0.0678	0.1692	0.0169	0.0342	11:59:56	Yes



Pb

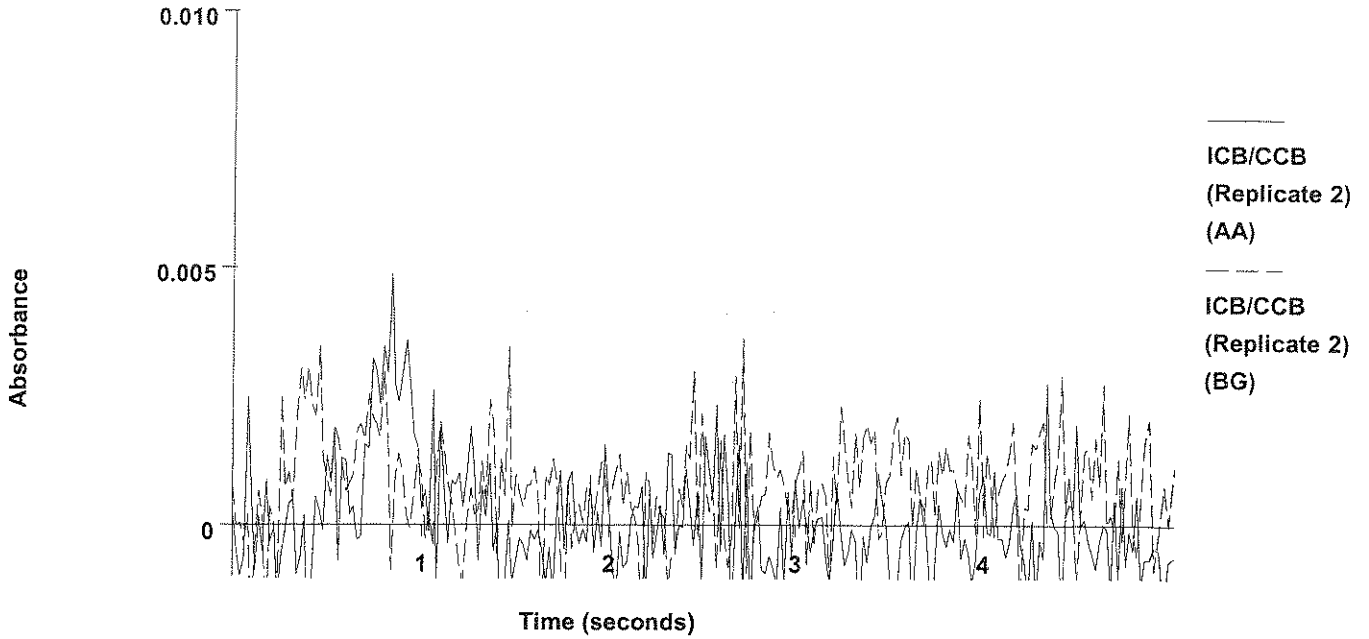


Mean: 24.0 24.0 0.0670  
SD : 0.37 0.37 0.0010  
%RSD: 1.53 1.53 1.49  
QC value within specified limits.

=====  
Element: Pb Seq. No.: 247 AS Loc.: 141 Date: 06/27/2006  
Sample ID: ICB/CCB  
µL dispensed: 10 from 141, 5 from 146, 15 from 141  
=====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.9	-0.9	-0.0007	0.0008	0.0043	0.0034	0.0036	12:02:48	Yes
2	-1.0	-1.0	-0.0010	0.0005	0.0049	0.0038	0.0036	12:05:41	Yes

Pb

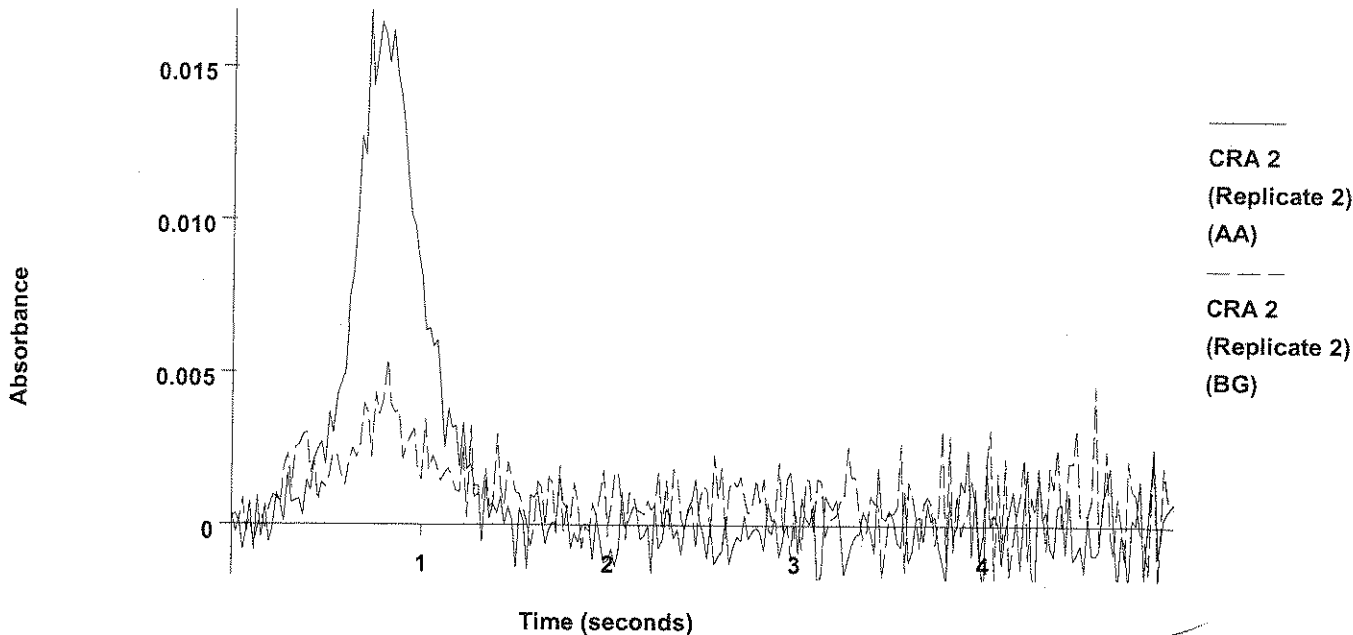


Mean: -0.9 -0.9 -0.0009  
 SD : 0.07 0.07 0.0002  
 %RSD: 7.87 7.87 23.78  
 QC value within specified limits.

=====  
 Element: Pb Seq. No.: 248 AS Loc.: 136 Date: 06/27/2006  
 Sample ID: CRA 2  
 µL dispensed: 10 from 141, 5 from 146, 15 from 136  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.1	1.1	0.0049	0.0062	0.0164	0.0045	0.0045	12:08:33	Yes
2	1.3	1.3	0.0052	0.0067	0.0168	0.0050	0.0054	12:11:23	Yes

Pb

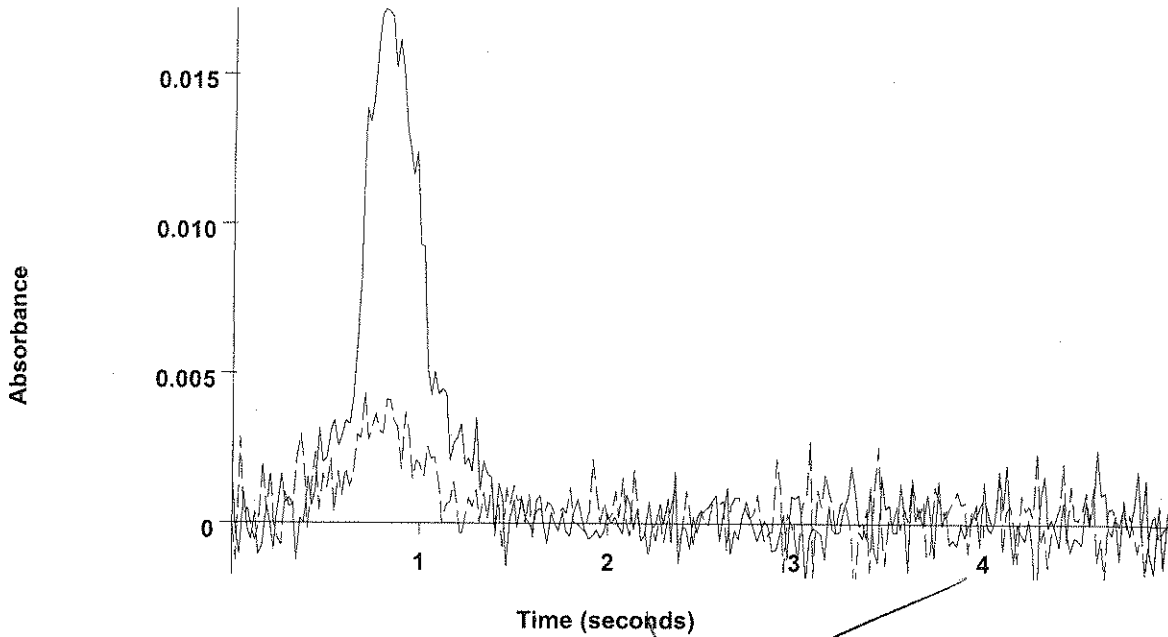


Mean: 1.2 1.2 0.0050  
 SD : 0.09 0.09 0.0003  
 %RSD: 7.59 7.59 4.98  
 QC failed, value less than lower limit for Pb.

=====  
 Element: Pb Seq. No.: 249 AS Loc.: 136 Date: 06/27/2006  
 Sample ID: CRA 2  
 µL dispensed: 10 from 141, 5 from 146, 15 from 136  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.6	1.6	0.0061	0.0076	0.0181	0.0041	0.0052	12:14:13	Yes
2	1.4	1.4	0.0057	0.0071	0.0172	0.0030	0.0044	12:17:04	Yes

Pb



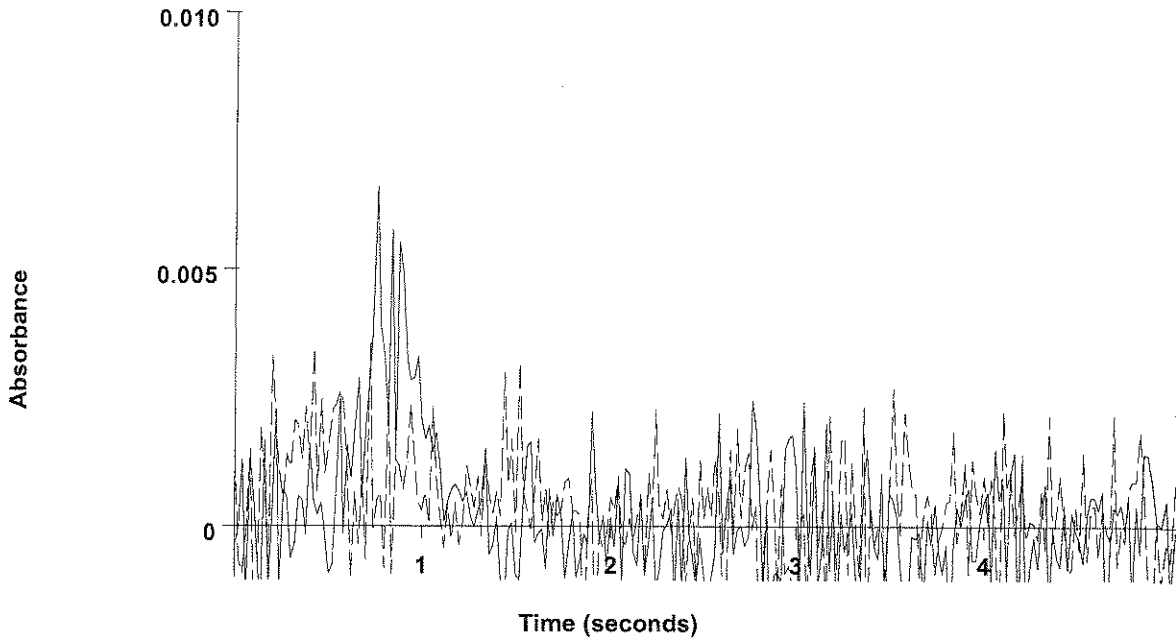
-----  
 CRA 2  
 (Replicate 2)  
 (AA)  
 -----  
 CRA 2  
 (Replicate 2)  
 (BG)

Mean:        1.5            1.5            0.0059  
 SD :        0.11            0.11            0.0003  
 %RSD:      7.38            7.38            5.21  
 QC failed, value less than lower limit for Pb.  
 Current analysis method being continued.

=====  
 Element: Pb    Seq. No.: 250        AS Loc.: 2    Date: 06/27/2006  
 Sample ID: bf62206-blk1  
 µL dispensed: 10 from 141, 5 from 146, 15 from 2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	0.0005	0.0020	0.0048	0.0047	0.0044	12:19:57	Yes
2	-0.7	-0.7	-0.0001	0.0014	0.0066	0.0021	0.0036	12:22:49	Yes

Pb



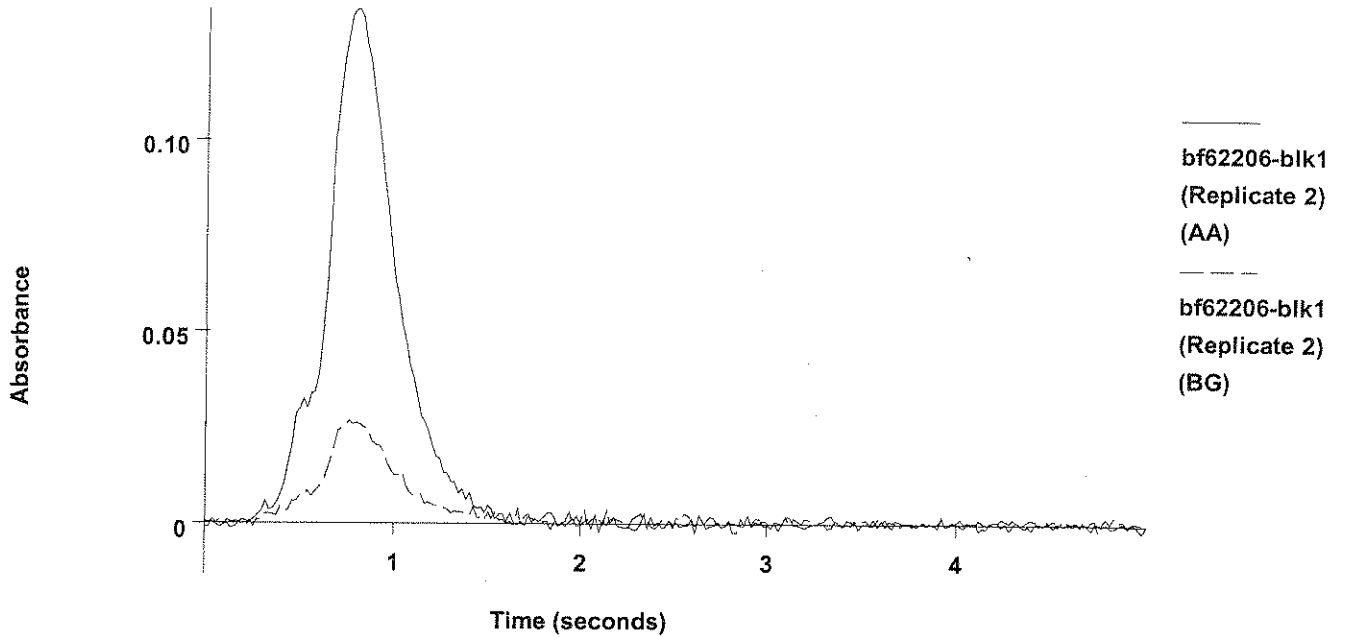
bf62206-blk1  
(Replicate 2)  
(AA)  
bf62206-blk1  
(Replicate 2)  
(BG)

Mean: -0.6 -0.6 0.0002  
SD : 0.17 0.17 0.0005  
%RSD: 30.48 30.48 204.65

=====  
Element: Pb Seq. No.: 251 AS Loc.: 2 Date: 06/27/2006  
Sample ID: bf62206-blk1  
µL dispensed: 4 from 141, 5 from 146, 6 from 131, 15 from 2  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	21.3	21.3	0.0599	0.0614	0.1461	0.0151	0.0287	12:25:49	Yes
2	20.0	20.0	0.0562	0.0577	0.1339	0.0147	0.0267	12:28:48	Yes

Pb



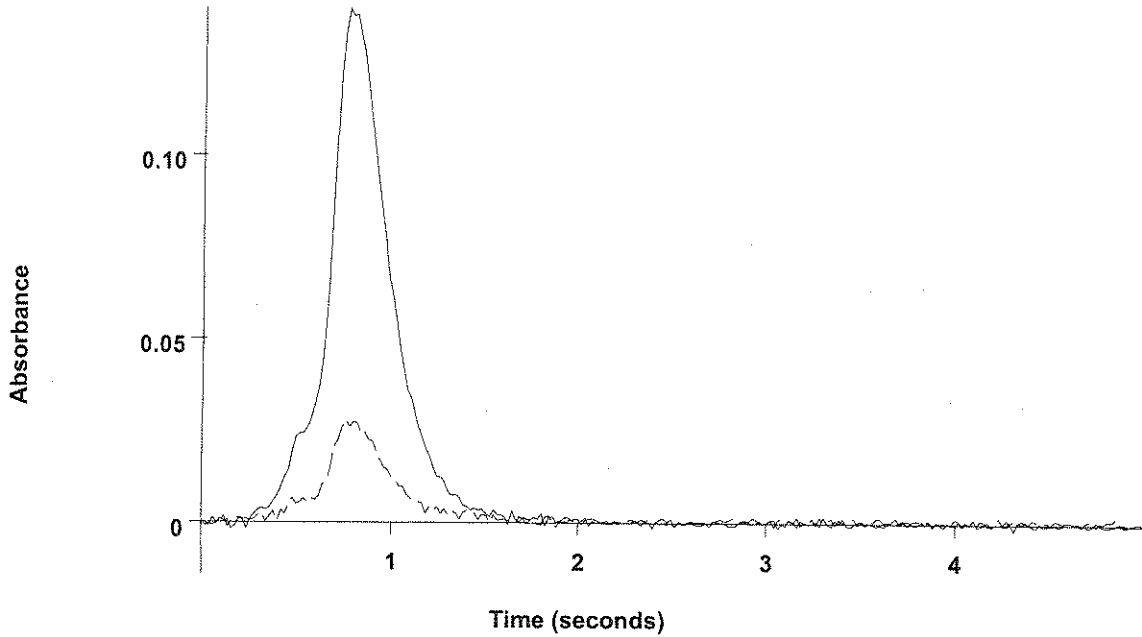
Mean: 20.7 20.7 0.0581  
 SD : 0.95 0.95 0.0026  
 %RSD: 4.58 4.58 4.44  
 Recovery for Pb = 103.4 % within 85 % to 115 %



=====  
 Element: Pb Seq. No.: 252 AS Loc.: 3 Date: 06/27/2006  
 Sample ID: bf62206-bs2  
 µL dispensed: 10 from 141, 5 from 146, 15 from 3  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	18.7	18.7	0.0527	0.0542	0.1404	0.0119	0.0280	12:31:41	Yes
2	18.6	18.6	0.0524	0.0539	0.1399	0.0129	0.0279	12:34:33	Yes

Pb



bf62206-bs2  
(Replicate 2)  
(AA)

bf62206-bs2  
(Replicate 2)  
(BG)

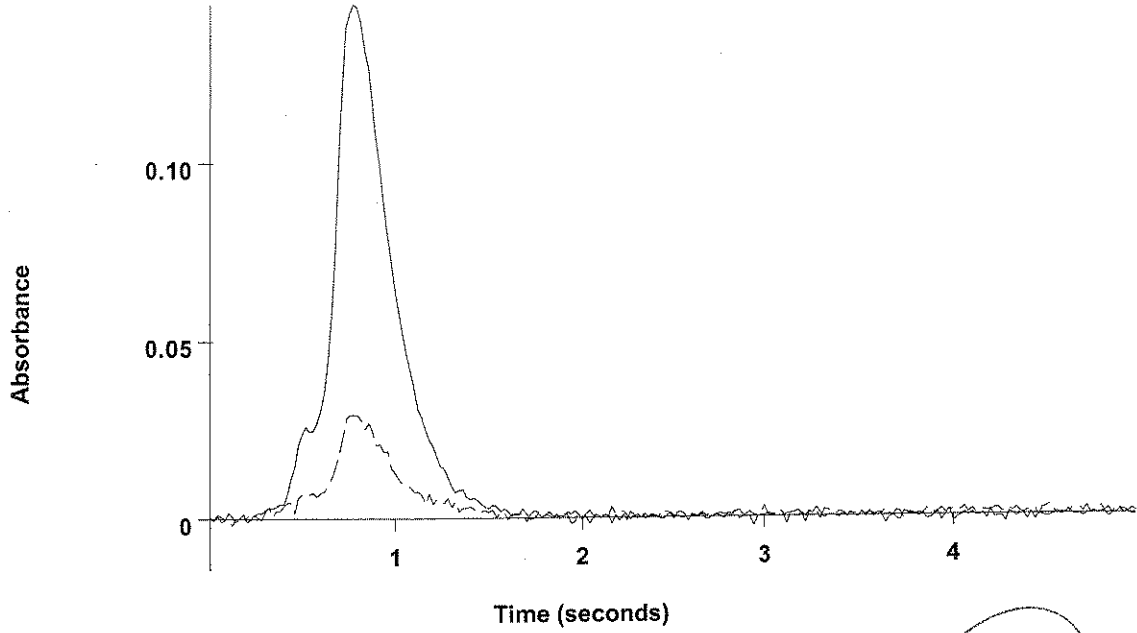
Mean: 18.7 18.7 0.0526  
 SD : 0.06 0.06 0.0002  
 %RSD: 0.34 0.34 0.32

945

=====  
 Element: Pb Seq. No.: 253 AS Loc.: 4 Date: 06/27/2006  
 Sample ID: bf62206-bsd2  
 µL dispensed: 10 from 141, 5 from 146, 15 from 4  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.0	19.0	0.0536	0.0550	0.1444	0.0137	0.0305	12:37:25	Yes
2	19.3	19.3	0.0544	0.0558	0.1445	0.0146	0.0293	12:40:17	Yes

Pb



bf62206-bsd2  
(Replicate 2)  
(AA)  
bf62206-bsd2  
(Replicate 2)  
(BG)

965

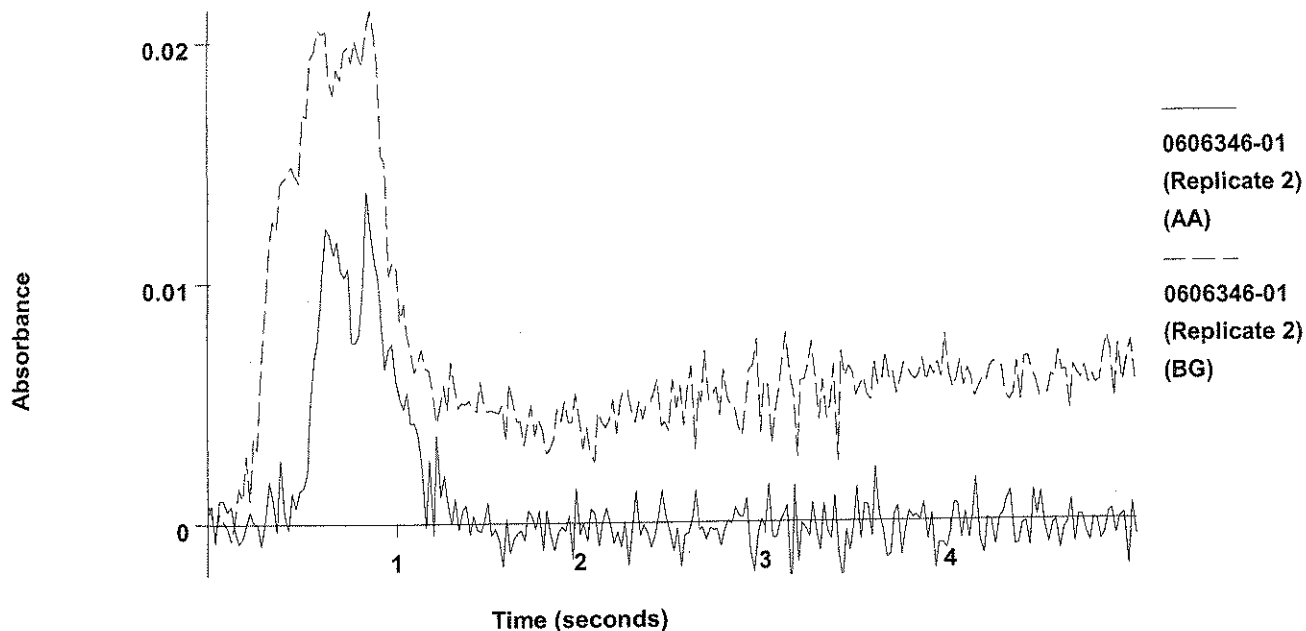
Mean: 19.2 19.2 0.0540  
SD : 0.21 0.21 0.0006  
%RSD: 1.07 1.07 1.04

=====  
Element: Pb Seq. No.: 254 AS Loc.: 5 Date: 06/27/2006  
Sample ID: 0606346-01  
µL dispensed: 10 from 141, 5 from 146, 15 from 5  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.9	0.9	0.0042	0.0057	0.0121	0.0296	0.0232	12:43:11	Yes
2	0.6	0.6	0.0033	0.0048	0.0138	0.0341	0.0214	12:46:03	Yes



Pb



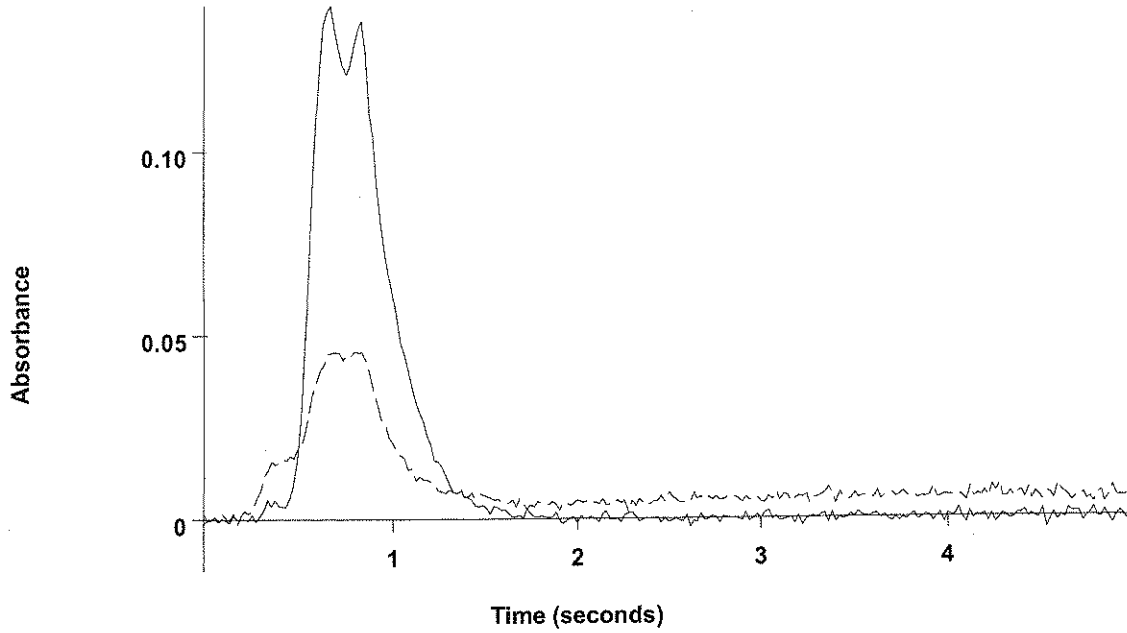
Mean: 0.7 0.7 0.0037  
 SD : 0.23 0.23 0.0006  
 %RSD: 30.67 30.67 16.49

*Handwritten initials*

=====  
 Element: Pb Seq. No.: 255 AS Loc.: 5 Date: 06/27/2006  
 Sample ID: 0606346-01  
 µL dispensed: 4 from 141, 5 from 146, 6 from 131, 15 from 5  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	22.4	22.4	0.0627	0.0642	0.1529	0.0383	0.0519	12:49:02	Yes
2	22.1	22.1	0.0619	0.0634	0.1396	0.0452	0.0456	12:52:01	Yes

Pb



0606346-01  
(Replicate 2)  
(AA)

0606346-01  
(Replicate 2)  
(BG)

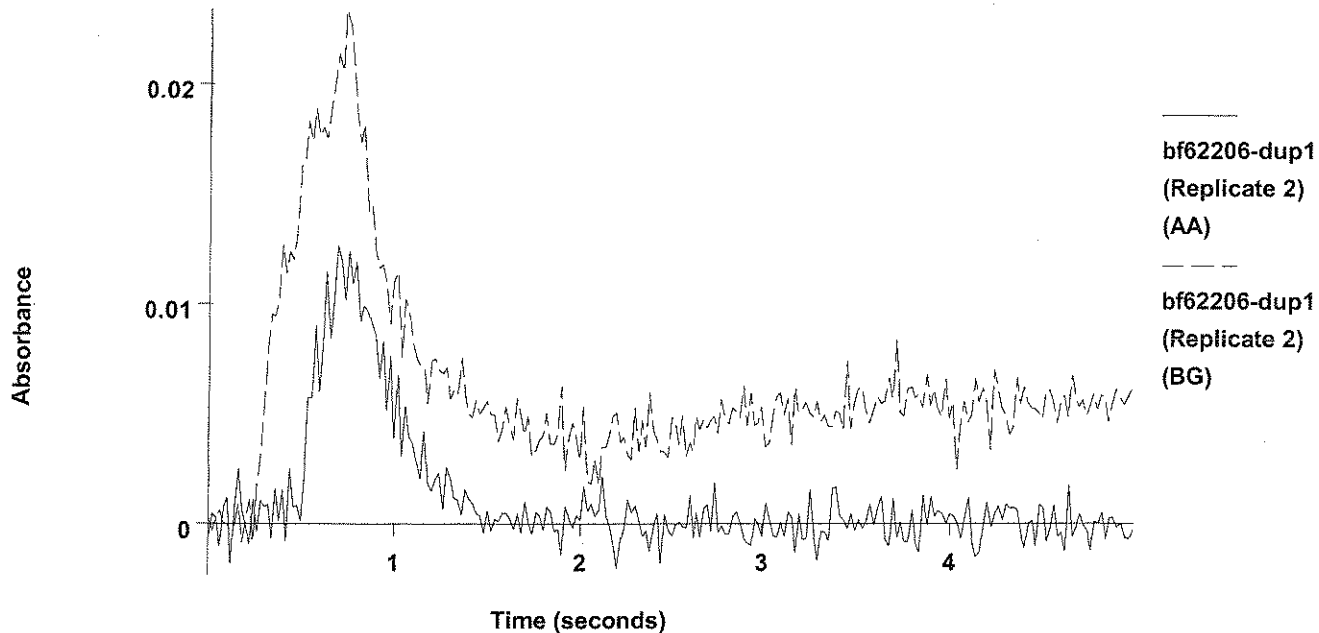
Mean: 22.2 22.2 0.0623  
 SD : 0.21 0.21 0.0006  
 %RSD: 0.92 0.92 0.90  
 Recovery for Pb = 111.1 % within 85 % to 115 %



=====  
 Element: Pb Seq. No.: 256 AS Loc.: 6 Date: 06/27/2006  
 Sample ID: bf62206-dup1  
 µL dispensed: 10 from 141, 5 from 146, 15 from 6  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	0.0032	0.0047	0.0118	0.0391	0.0250	12:54:54	Yes
2	0.9	0.9	0.0042	0.0057	0.0126	0.0314	0.0234	12:57:46	Yes

Pb



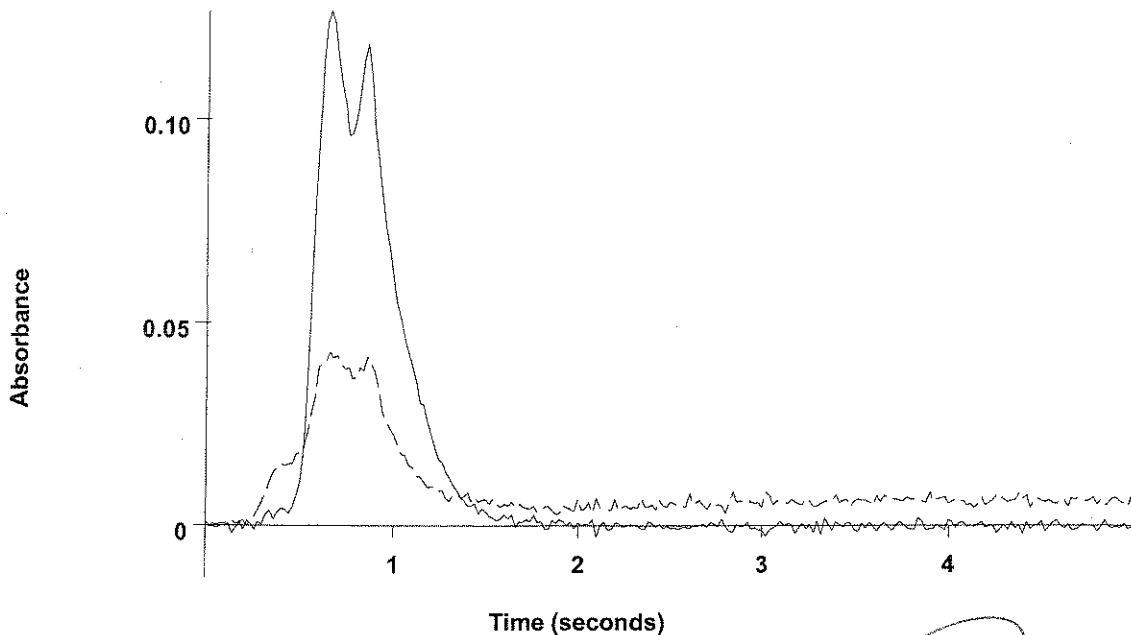
Mean: 0.7 0.7 0.0037  
 SD : 0.24 0.24 0.0007  
 %RSD: 33.49 33.49 17.87

*Handwritten signature*

=====  
 Element: Pb Seq. No.: 257 AS Loc.: 7 Date: 06/27/2006  
 Sample ID: bf62206-ms3  
 µL dispensed: 10 from 141, 5 from 146, 15 from 7

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.6	20.6	0.0578	0.0593	0.1231	0.0470	0.0446	01:00:39	Yes
2	19.9	19.9	0.0560	0.0575	0.1267	0.0453	0.0428	01:03:32	Yes

Pb



bf62206-ms3  
(Replicate 2)  
(AA)

bf62206-ms3  
(Replicate 2)  
(BG)

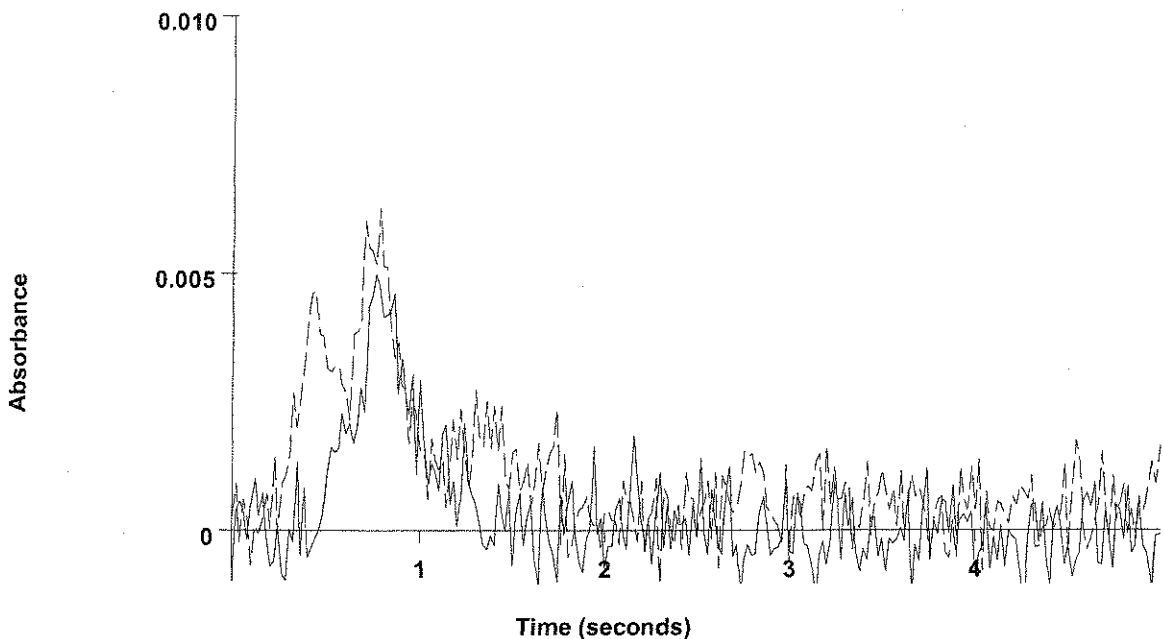
Mean: 20.2 20.2 0.0569  
SD : 0.47 0.47 0.0013  
%RSD: 2.31 2.31 2.24

1019

=====  
Element: Pb Seq. No.: 258 AS Loc.: 8 Date: 06/27/2006  
Sample ID: bf62206-sd1 x5  
µL dispensed: 10 from 141, 5 from 146, 15 from 8  
=====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0001	0.0014	0.0048	0.0072	0.0057	01:06:26	Yes
2	-0.5	-0.5	0.0003	0.0017	0.0050	0.0053	0.0063	01:09:18	Yes

Pb



-----  
 bf62206-sd1 x5  
 (Replicate 2)  
 (AA)  
 -----  
 bf62206-sd1 x5  
 (Replicate 2)  
 (BG)

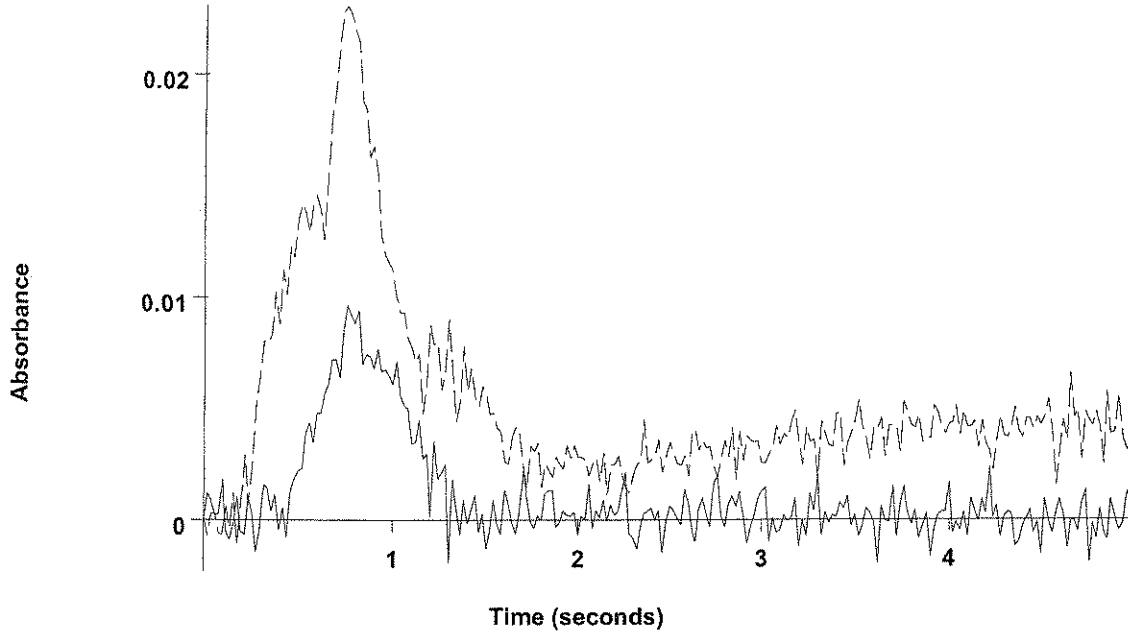
Mean:        -0.6        -0.6        0.0001  
 SD :        0.09        0.09        0.0003  
 %RSD:      15.27       15.27       319.61

*PD*

=====  
 Element: Pb    Seq. No.: 259    AS Loc.: 9    Date: 06/27/2006  
 Sample ID: 0606346-02  
 µL dispensed: 10 from 141, 5 from 146, 15 from 9

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.9	1.9	0.0068	0.0083	0.0194	0.0234	0.0365	01:12:11	Yes
2	0.7	0.7	0.0037	0.0051	0.0096	0.0265	0.0231	01:15:04	Yes

Pb



-----  
 0606346-02  
 (Replicate 2)  
 (AA)  
 -----  
 0606346-02  
 (Replicate 2)  
 (BG)

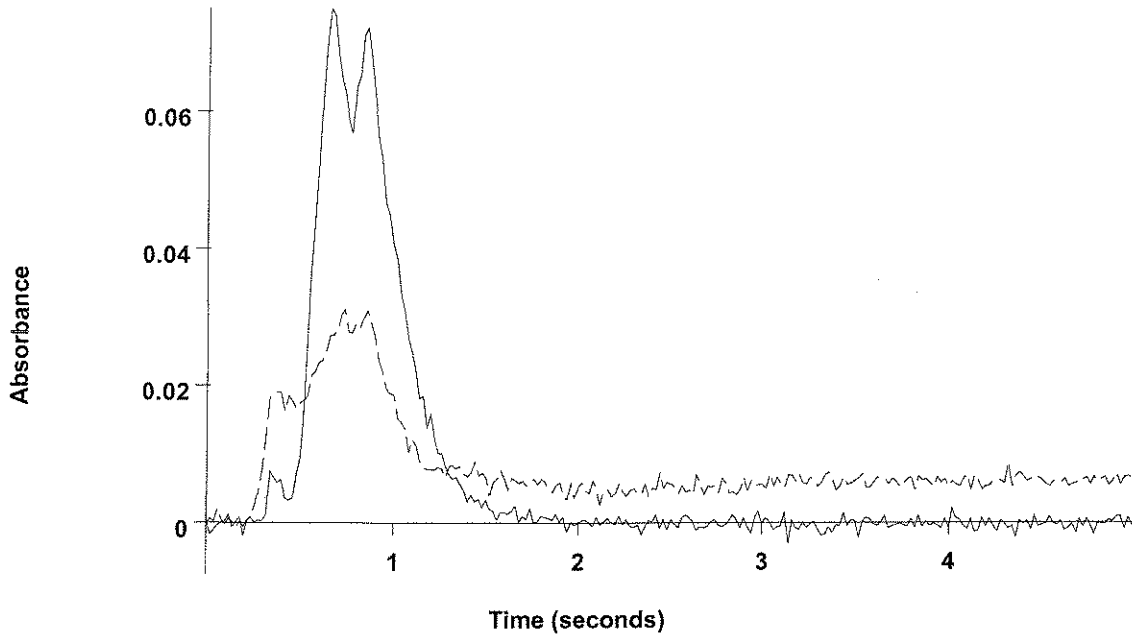
Mean: 1.3 1.3 0.0052  
 SD : 0.81 0.81 0.0022  
 %RSD: 63.22 63.22 42.26

*PD*

=====  
 Element: Pb Seq. No.: 260 AS Loc.: 10 Date: 06/27/2006  
 Sample ID: 0606346-03  
 µL dispensed: 10 from 141, 5 from 146, 15 from 10  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	12.1	12.1	0.0347	0.0362	0.0679	0.0341	0.0317	01:17:55	Yes
2	12.0	12.0	0.0346	0.0360	0.0750	0.0408	0.0311	01:20:48	Yes

Pb



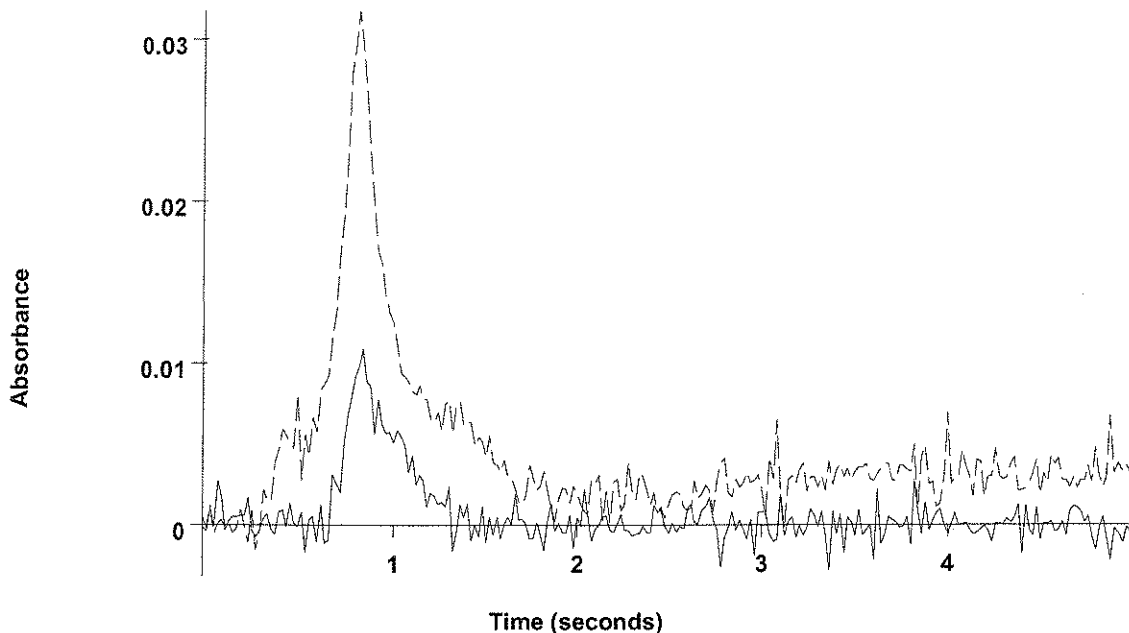
-----  
 0606346-03  
 (Replicate 2)  
 (AA)  
 -----  
 0606346-03  
 (Replicate 2)  
 (BG)

Mean:	12.1	12.1	0.0346
SD :	0.04	0.04	0.0001
%RSD:	0.35	0.35	0.33

=====  
 Element: Pb    Seq. No.: 261    AS Loc.: 11    Date: 06/27/2006  
 Sample ID: 0606346-05  
 µL dispensed: 10 from 141, 5 from 146, 15 from 11  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	0.0012	0.0027	0.0070	0.0267	0.0215	01:23:41	Yes
2	0.0	0.0	0.0018	0.0032	0.0109	0.0219	0.0318	01:26:34	Yes

Pb



-----  
0606346-05  
(Replicate 2)  
(AA)

-----  
0606346-05  
(Replicate 2)  
(BG)

Mean:        -0.1        -0.1        0.0015  
SD :         0.14        0.14        0.0004  
%RSD:       161.2       161.2       25.98

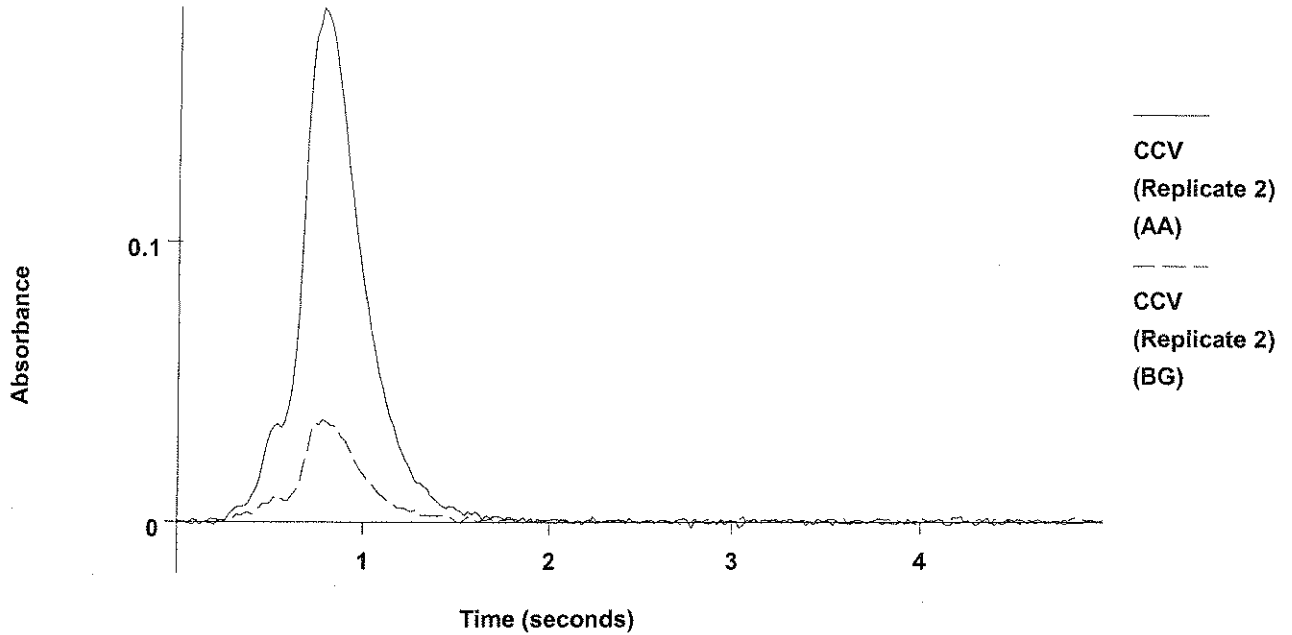
*Handwritten mark resembling 'M' or 'D'.*

=====  
Element: Pb    Seq. No.: 262        AS Loc.: 126    Date: 06/27/2006  
Sample ID: CCV  
µL dispensed: 10 from 141, 5 from 146, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.3	27.3	0.0761	0.0776	0.1800	0.0189	0.0352	01:29:29	Yes
2	25.8	25.8	0.0721	0.0736	0.1833	0.0168	0.0366	01:32:22	Yes



Pb



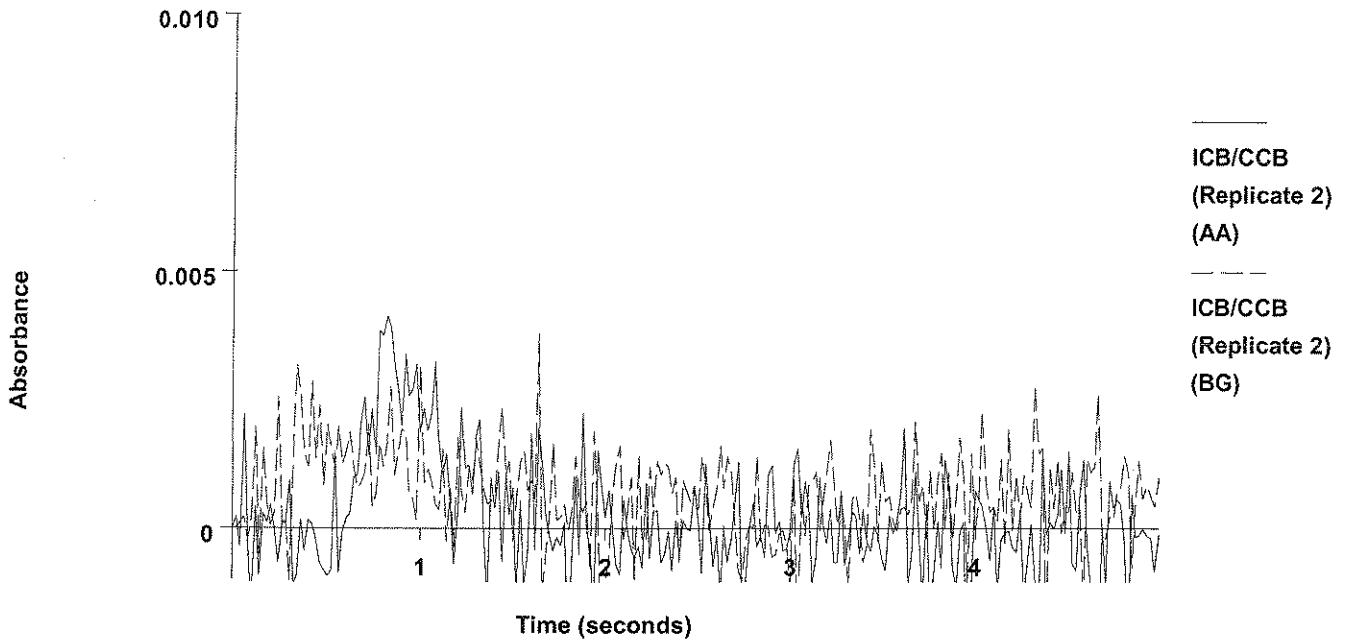
Mean: 26.6 26.6 0.0741  
 SD : 1.03 1.03 0.0028  
 %RSD: 3.87 3.87 3.78  
 QC value within specified limits.



=====  
 Element: Pb Seq. No.: 263 AS Loc.: 141 Date: 06/27/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 141, 5 from 146, 15 from 141  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.9	-0.9	-0.0008	0.0007	0.0044	0.0036	0.0036	01:35:15	Yes
2	-0.8	-0.8	-0.0004	0.0011	0.0041	0.0034	0.0038	01:38:07	Yes

Pb

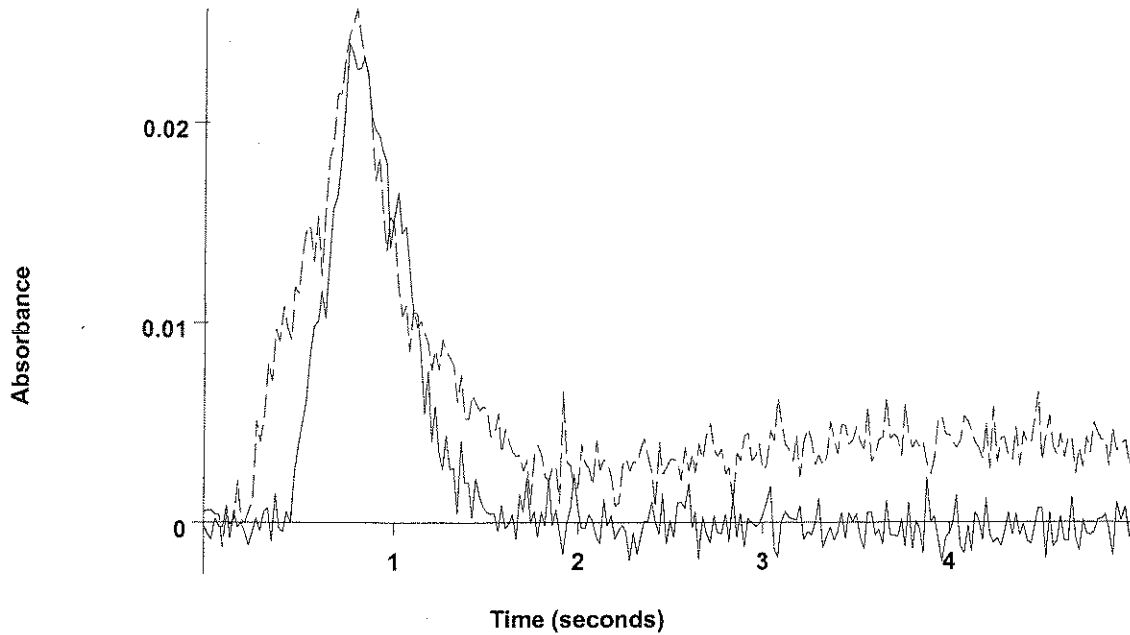


Mean: -0.8 -0.8 -0.0006  
 SD : 0.11 0.11 0.0003  
 %RSD: 13.20 13.20 53.33  
 QC value within specified limits.

=====  
 Element: Pb Seq. No.: 264 AS Loc.: 12 Date: 06/27/2006  
 Sample ID: 0606346-06  
 µL dispensed: 10 from 141, 5 from 146, 15 from 12  
 =====

Repl #	Sample Conc µg/L	Std Conc µg/L	Blk Corr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.0	3.0	0.0100	0.0115	0.0266	0.0365	0.0251	01:40:59	Yes
2	2.7	2.7	0.0091	0.0106	0.0240	0.0281	0.0257	01:43:52	Yes

Pb



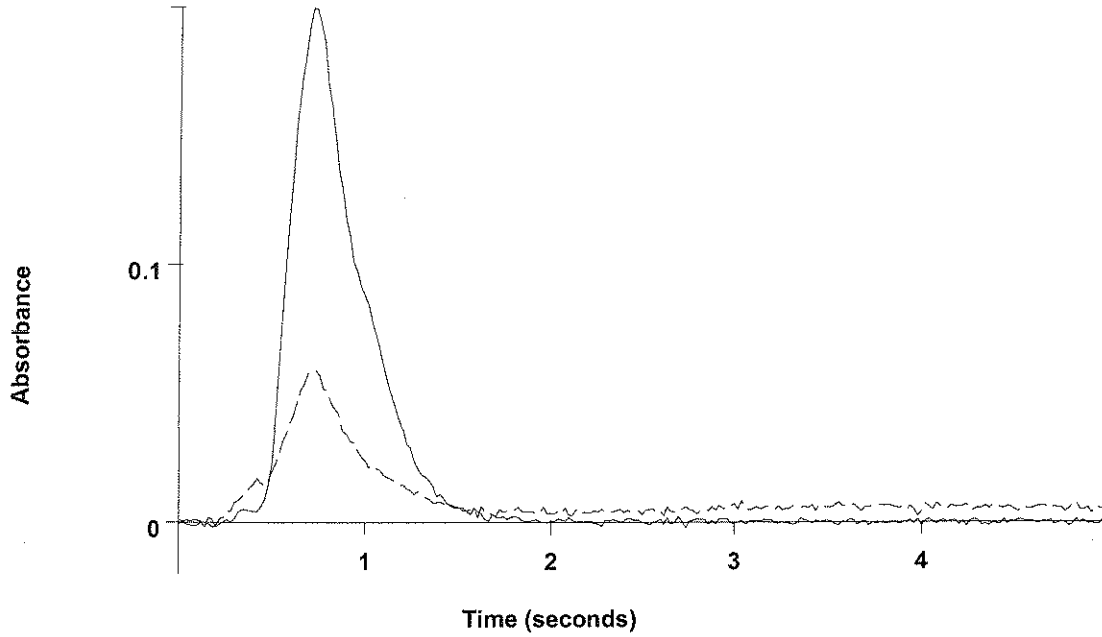
-----  
 0606346-06  
 (Replicate 2)  
 (AA)  
 -----  
 0606346-06  
 (Replicate 2)  
 (BG)

Mean:            2.9            2.9            0.0096  
 SD :            0.22            0.22            0.0006  
 %RSD:          7.51            7.51            6.15

=====  
 Element: Pb    Seq. No.: 265            AS Loc.: 13    Date: 06/27/2006  
 Sample ID: 0606346-07  
 µL dispensed: 10 from 141, 5 from 146, 15 from 13  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	33.0	33.0	0.0916	0.0931	0.1903	0.0574	0.0562	01:46:45	Yes
2	30.7	30.7	0.0854	0.0869	0.1997	0.0483	0.0591	01:49:38	Yes

Pb



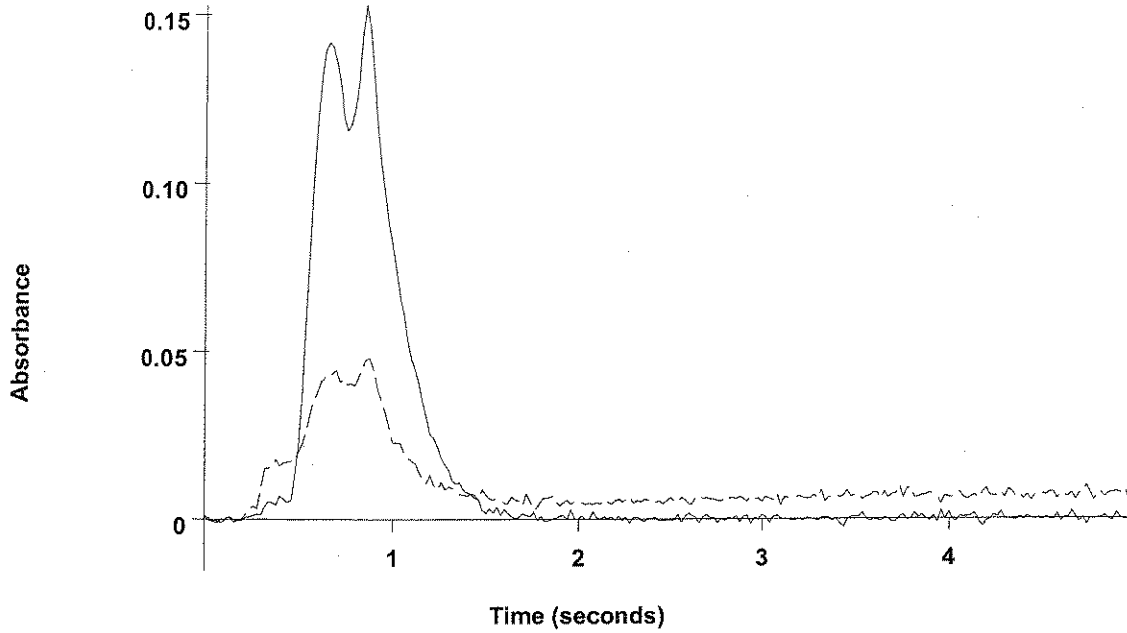
-----  
 0606346-07  
 (Replicate 2)  
 (AA)  
 -----  
 0606346-07  
 (Replicate 2)  
 (BG)

Mean: 31.8      31.8      0.0885  
 SD : 1.60      1.60      0.0044  
 %RSD: 5.02      5.02      4.92

=====  
 Element: Pb      Seq. No.: 266      AS Loc.: 14      Date: 06/27/2006  
 Sample ID: 0606346-08  
 µL dispensed: 10 from 141, 5 from 146, 15 from 14  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.8	25.8	0.0720	0.0735	0.1578	0.0520	0.0494	01:52:31	Yes
2	25.8	25.8	0.0719	0.0734	0.1529	0.0509	0.0479	01:55:22	Yes

Pb



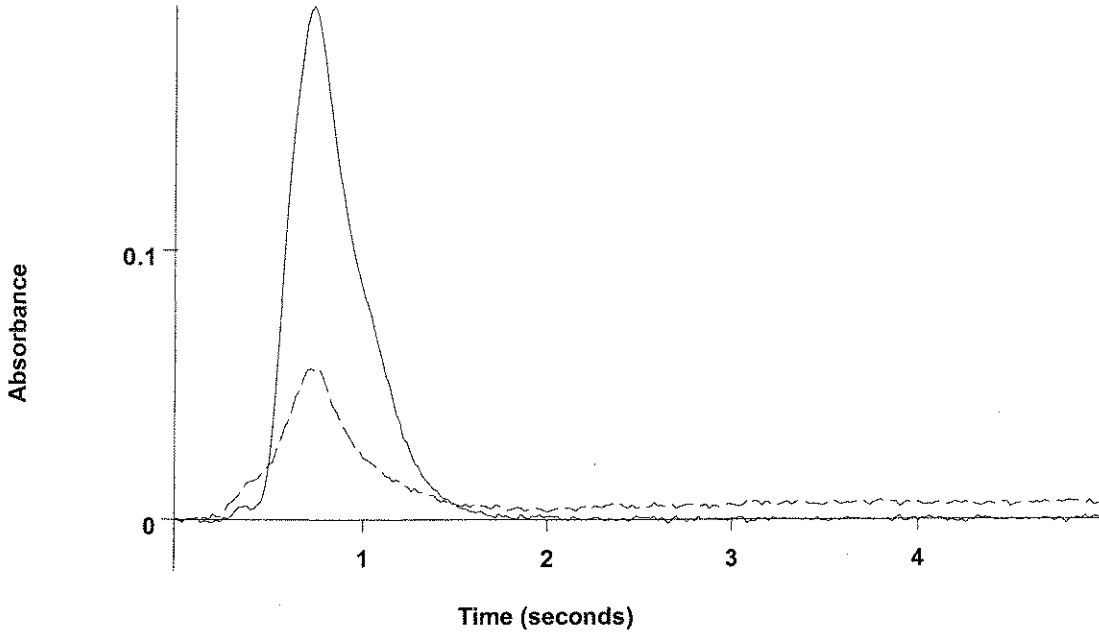
0606346-08  
(Replicate 2)  
(AA)  
-----  
0606346-08  
(Replicate 2)  
(BG)

Mean: 25.8      25.8      0.0720  
SD : 0.02      0.02      0.0001  
%RSD: 0.09      0.09      0.09

=====  
Element: Pb      Seq. No.: 267      AS Loc.: 15      Date: 06/27/2006  
Sample ID: 0606346-09  
µL dispensed: 10 from 141, 5 from 146, 15 from 15  
=====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	32.0	32.0	0.0890	0.0905	0.1814	0.0572	0.0549	01:58:15	Yes
2	29.8	29.8	0.0830	0.0845	0.1905	0.0485	0.0566	02:01:08	Yes

Pb



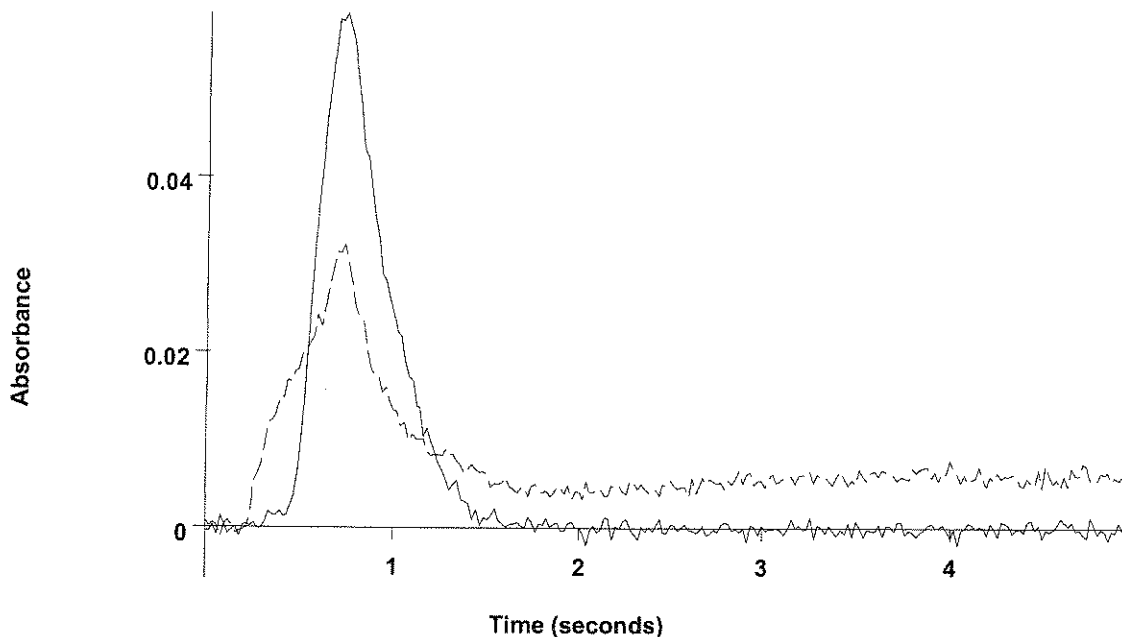
0606346-09  
(Replicate 2)  
(AA)  
-----  
0606346-09  
(Replicate 2)  
(BG)

Mean:	30.9	30.9	0.0860
SD :	1.56	1.56	0.0043
%RSD:	5.05	5.05	4.95

=====  
 Element: Pb    Seq. No.: 268    AS Loc.: 16    Date: 06/27/2006  
 Sample ID: 0606346-10  
 µL dispensed: 10 from 141, 5 from 146, 15 from 16  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	8.7	8.7	0.0253	0.0268	0.0567	0.0471	0.0323	02:04:01	Yes
2	7.9	7.9	0.0232	0.0247	0.0587	0.0378	0.0323	02:06:53	Yes

Pb



0606346-10  
(Replicate 2)  
(AA)

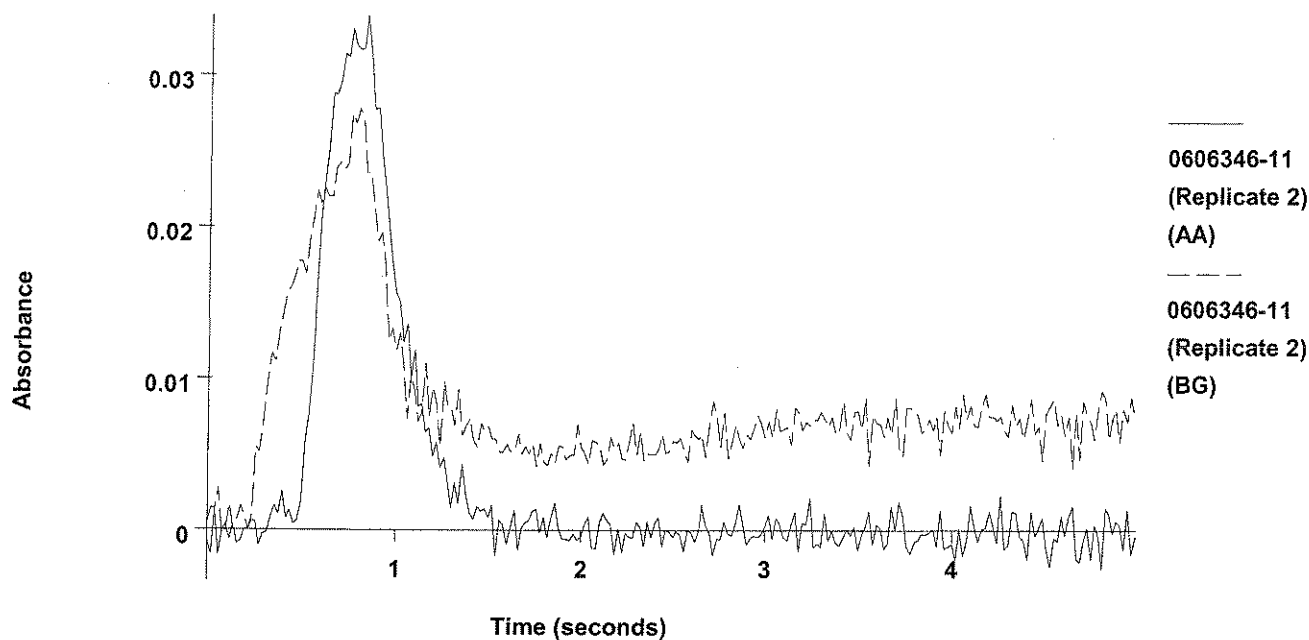
0606346-10  
(Replicate 2)  
(BG)

Mean:	8.3	8.3	0.0243
SD :	0.55	0.55	0.0015
%RSD:	6.64	6.64	6.16

=====  
 Element: Pb    Seq. No.: 269    AS Loc.: 17    Date: 06/27/2006  
 Sample ID: 0606346-11  
 µL dispensed: 10 from 141, 5 from 146, 15 from 17  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.6	4.6	0.0143	0.0157	0.0328	0.0389	0.0248	02:09:46	Yes
2	4.2	4.2	0.0132	0.0146	0.0339	0.0409	0.0278	02:12:38	Yes

Pb



0606346-11  
(Replicate 2)  
(AA)  
-----  
0606346-11  
(Replicate 2)  
(BG)

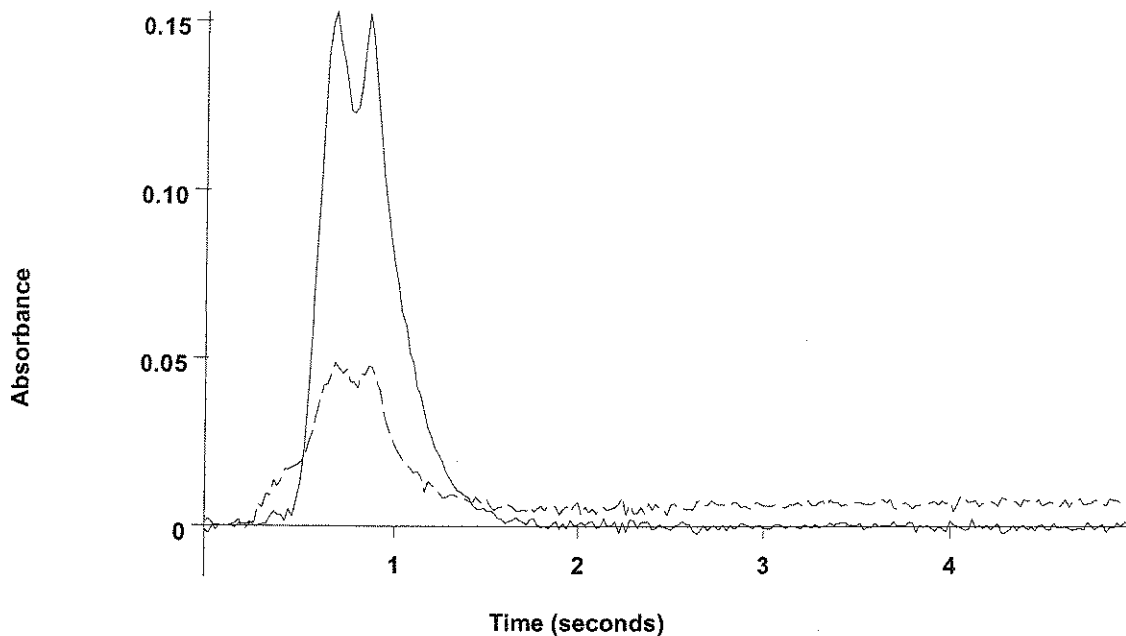
Mean: 4.4 4.4 0.0137  
SD : 0.29 0.29 0.0008  
%RSD: 6.53 6.53 5.71

=====  
Element: Pb Seq. No.: 270 AS Loc.: 17 Date: 06/27/2006  
Sample ID: 0606346-11  
µL dispensed: 4 from 141, 5 from 146, 6 from 131, 15 from 17

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.7	24.7	0.0692	0.0706	0.1755	0.0451	0.0552	02:15:38	Yes
2	24.9	24.9	0.0696	0.0711	0.1528	0.0509	0.0486	02:18:37	Yes



Pb



0606346-11  
(Replicate 2)  
(AA)

0606346-11  
(Replicate 2)  
(BG)

Mean: 24.8 24.8 0.0694  
SD : 0.12 0.12 0.0003  
%RSD: 0.47 0.47 0.46  
Recovery for Pb = 124.1 %, greater than upper limit 115 %

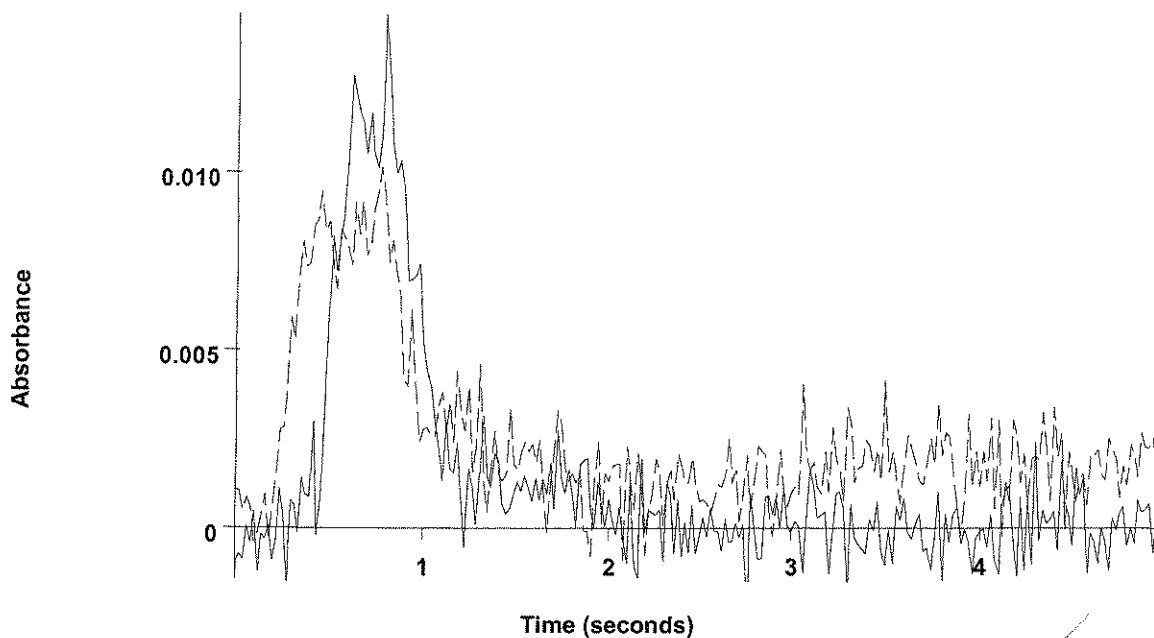
$\frac{24.8 - 4.4}{20} = 102\%$

OK  
8/26/27/06

=====  
Element: Pb Seq. No.: 271 AS Loc.: 17 Date: 06/27/2006  
Sample ID: 0606346-11  
μL dispensed: 20 from 141, 5 from 146, 5 from 17  
=====

Repl #	SampleConc μg/L	StndConc μg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.5	0.8	0.0040	0.0055	0.0145	0.0119	0.0096	02:21:28	Yes
2	3.8	1.3	0.0052	0.0067	0.0145	0.0125	0.0102	02:24:18	Yes

Pb



0606346-11  
(Replicate 2)  
(AA)

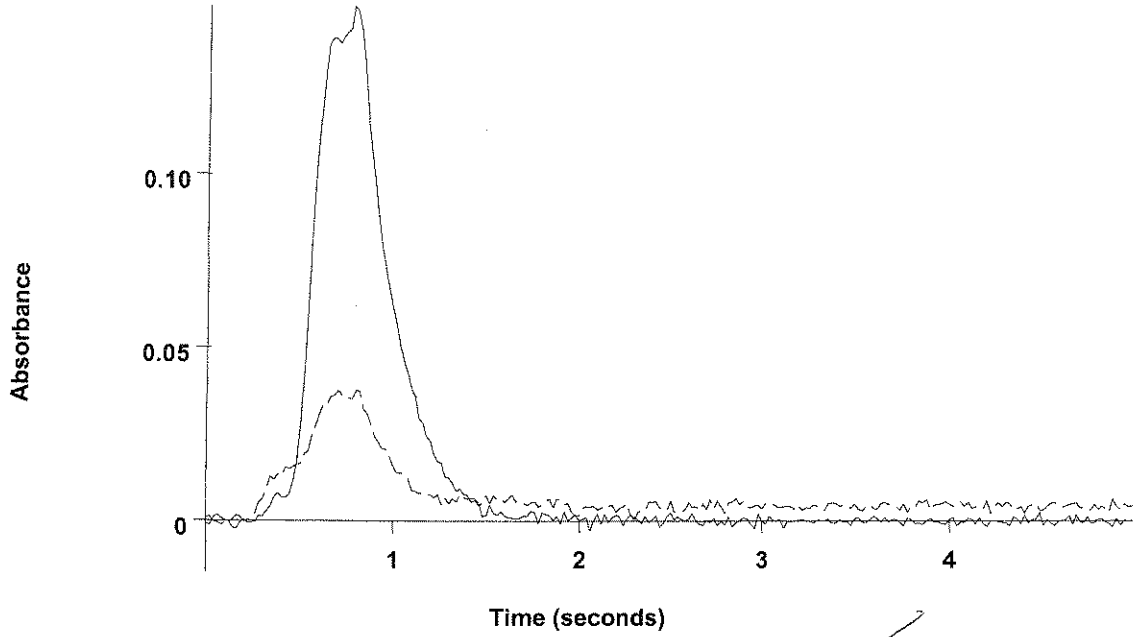
0606346-11  
(Replicate 2)  
(BG)

Mean:           3.2           1.1           0.0046  
SD :            0.88           0.29           0.0008  
%RSD:          27.75          27.75          17.34

=====  
Element: Pb   Seq. No.: 272   AS Loc.: 17   Date: 06/27/2006  
Sample ID: 0606346-11  
µL dispensed: 14 from 141, 5 from 146, 6 from 131, 5 from 17

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	71.3	23.8	0.0665	0.0680	0.1299	0.0238	0.0327	02:27:16	Yes
2	72.1	24.0	0.0672	0.0687	0.1484	0.0368	0.0379	02:30:15	Yes

Pb



0606346-11  
(Replicate 2)  
(AA)

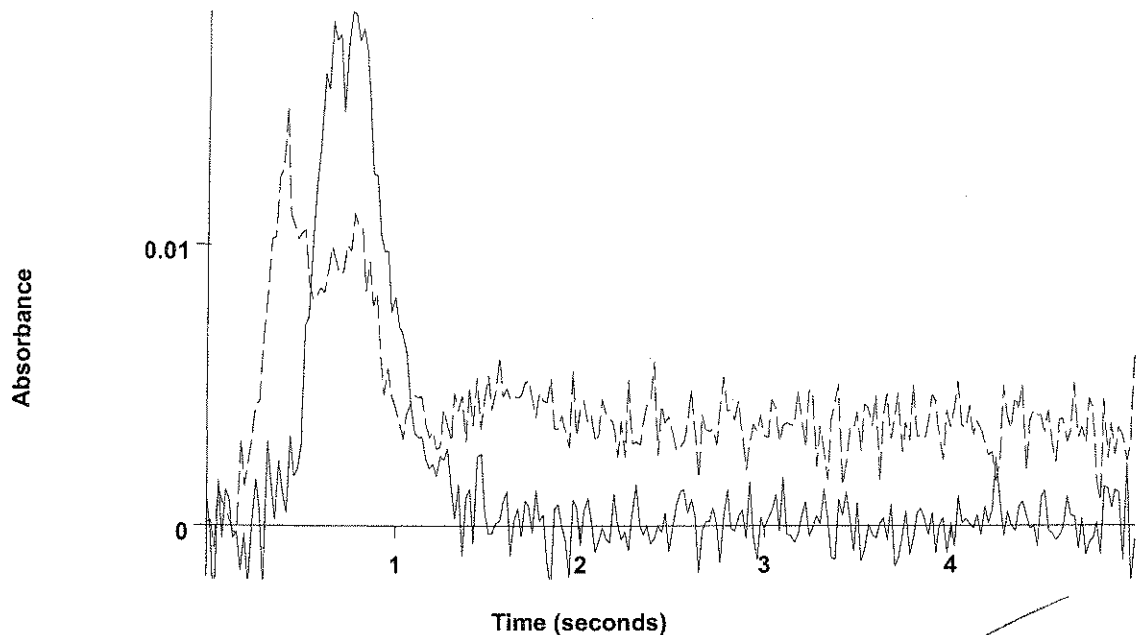
0606346-11  
(Replicate 2)  
(BG)

Mean: 71.7 23.9 0.0668  
 SD : 0.53 0.18 0.0005  
 %RSD: 0.74 0.74 0.72  
 Recovery for Pb = 119.5 %, greater than upper limit 115 %

=====  
 Element: Pb Seq. No.: 273 AS Loc.: 17 Date: 06/27/2006  
 Sample ID: 0606346-11  
 µL dispensed: 22 from 141, 5 from 146, 3 from 17  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.4	0.9	0.0041	0.0056	0.0136	0.0097	0.0090	02:33:06	Yes
2	9.8	2.0	0.0071	0.0086	0.0183	0.0218	0.0149	02:35:57	Yes

Pb



0606346-11  
(Replicate 2)  
(AA)

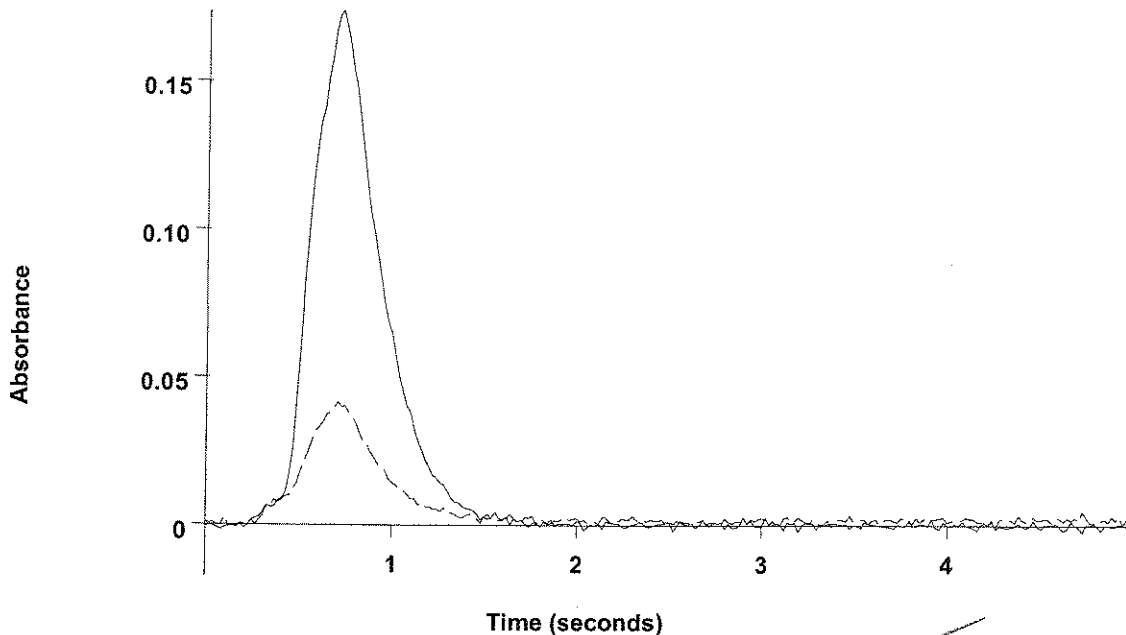
0606346-11  
(Replicate 2)  
(BG)

Mean:           7.1           1.4           0.0056  
SD :            3.82           0.76           0.0021  
%RSD:          53.77          53.77          37.16

=====  
Element: Pb   Seq. No.: 274   AS Loc.: 17   Date: 06/27/2006  
Sample ID: 0606346-11  
µL dispensed: 16 from 141, 5 from 146, 6 from 131, 3 from 17  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	125.9	25.2	0.0704	0.0718	0.1617	0.0219	0.0363	02:38:58	Yes
2	135.2	27.0	0.0754	0.0769	0.1737	0.0261	0.0414	02:41:56	Yes

Pb



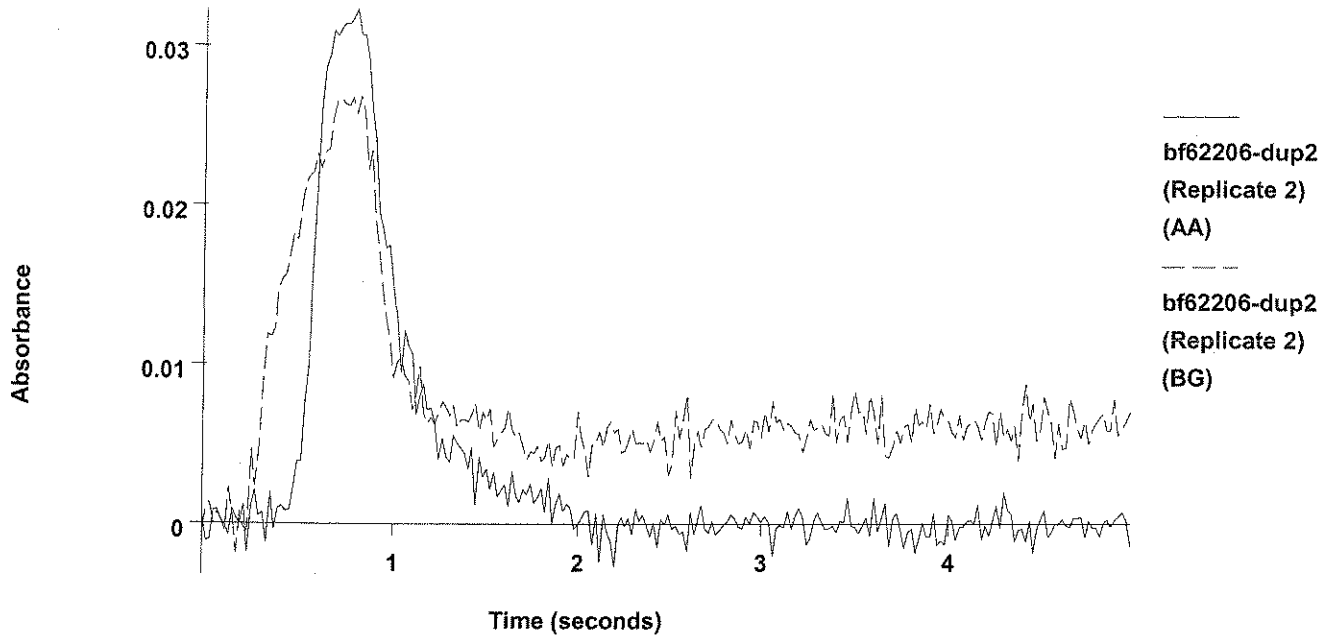
0606346-11  
(Replicate 2)  
(AA)  
-----  
0606346-11  
(Replicate 2)  
(BG)

Mean: 130.6 26.1 0.0729  
SD : 6.57 1.31 0.0036  
%RSD: 5.03 5.03 4.91  
Recovery for Pb = 130.6 %, greater than upper limit 115 %

=====  
Element: Pb Seq. No.: 275 AS Loc.: 18 Date: 06/27/2006  
Sample ID: bf62206-dup2  
µL dispensed: 10 from 141, 5 from 146, 15 from 18  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	10.7	10.7	0.0310	0.0325	0.0684	0.0443	0.0375	02:44:48	Yes
2	4.6	4.6	0.0143	0.0158	0.0323	0.0381	0.0268	02:47:40	Yes

Pb



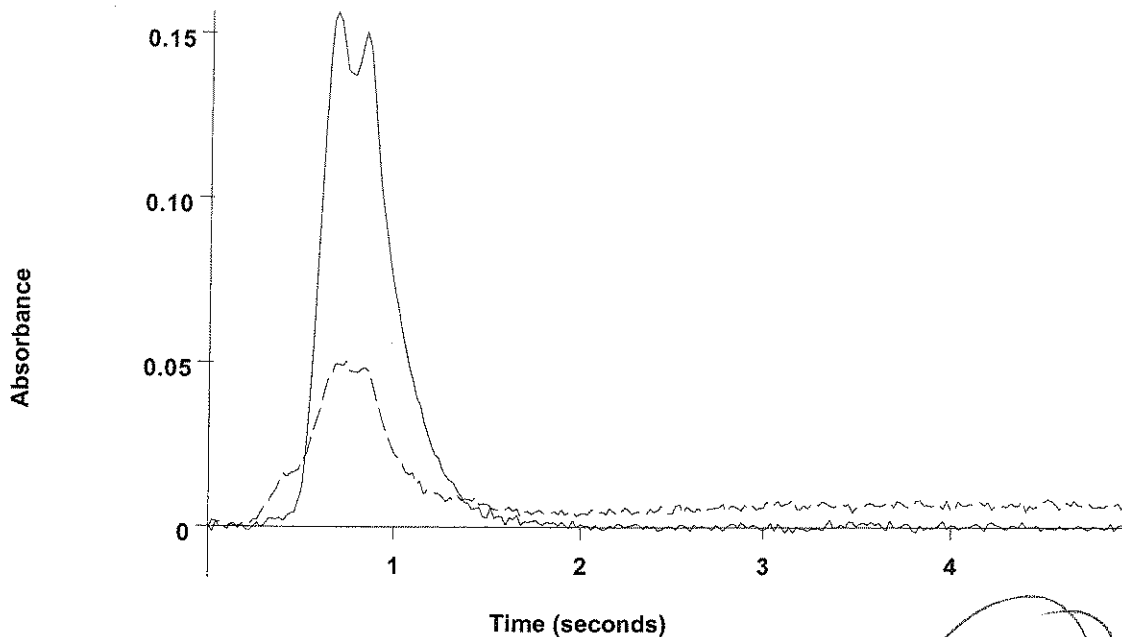
Mean: 7.7 7.7 0.0227  
 SD : 4.32 4.32 0.0118  
 %RSD: 56.29 56.29 51.99

*Mean high RSD*

=====  
 Element: Pb Seq. No.: 276 AS Loc.: 19 Date: 06/27/2006  
 Sample ID: bf62206-ms4  
 µL dispensed: 10 from 141, 5 from 146, 15 from 19  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.2	25.2	0.0703	0.0718	0.1575	0.0502	0.0518	02:50:32	Yes
2	25.0	25.0	0.0700	0.0715	0.1564	0.0499	0.0504	02:53:24	Yes

Pb



bf62206-ms4  
(Replicate 2)  
(AA)  
bf62206-ms4  
(Replicate 2)  
(BG)

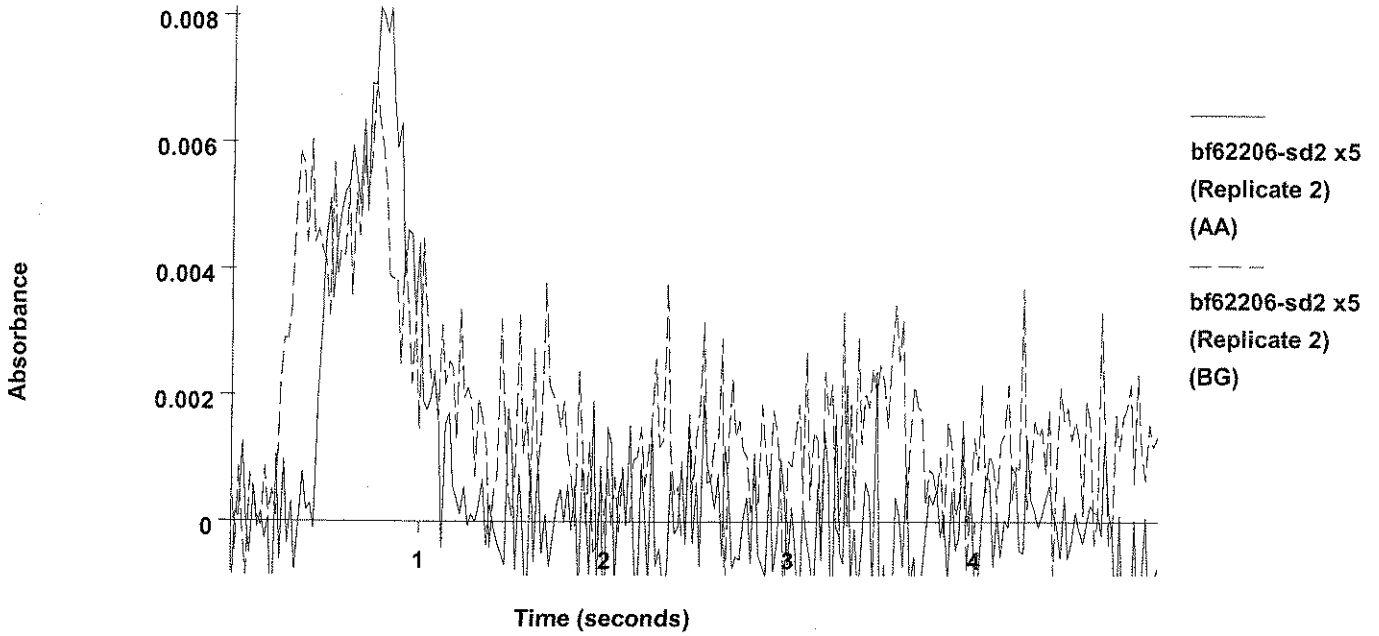
17265

Mean: 25.1 25.1 0.0701  
SD : 0.08 0.08 0.0002  
%RSD: 0.33 0.33 0.32

=====  
Element: Pb Seq. No.: 277 AS Loc.: 20 Date: 06/27/2006  
Sample ID: bf62206-sd2 x5  
µL dispensed: 10 from 141, 5 from 146, 15 from 20  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	0.0014	0.0029	0.0087	0.0092	0.0089	02:56:15	Yes
2	-0.1	-0.1	0.0016	0.0031	0.0081	0.0085	0.0070	02:59:07	Yes

Pb



Mean:            -0.1            -0.1            0.0015  
 SD :             0.04            0.04            0.0001  
 %RSD:           49.96           49.96           7.60

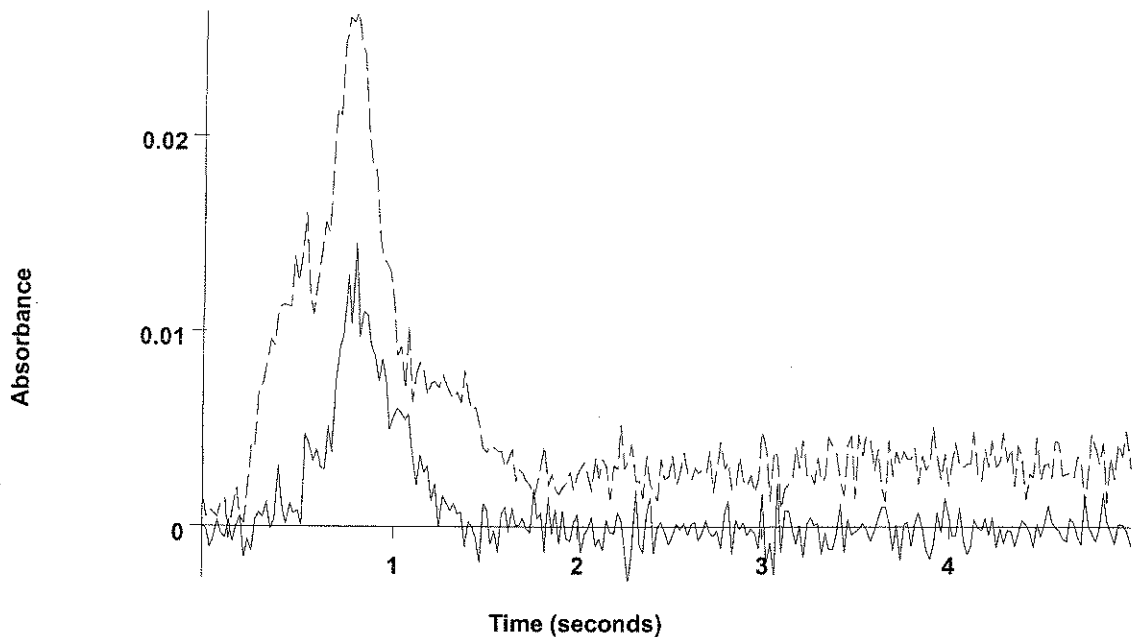
*Handwritten mark resembling a stylized 'M' or 'D'.*

=====  
 Element: Pb    Seq. No.: 278            AS Loc.: 21    Date: 06/27/2006  
 Sample ID: 0606346-13  
 µL dispensed: 10 from 141, 5 from 146, 15 from 21

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	0.0032	0.0047	0.0119	0.0254	0.0246	03:02:00	Yes
2	0.3	0.3	0.0026	0.0041	0.0145	0.0258	0.0263	03:04:51	Yes



Pb



0606346-13  
(Replicate 2)  
(AA)

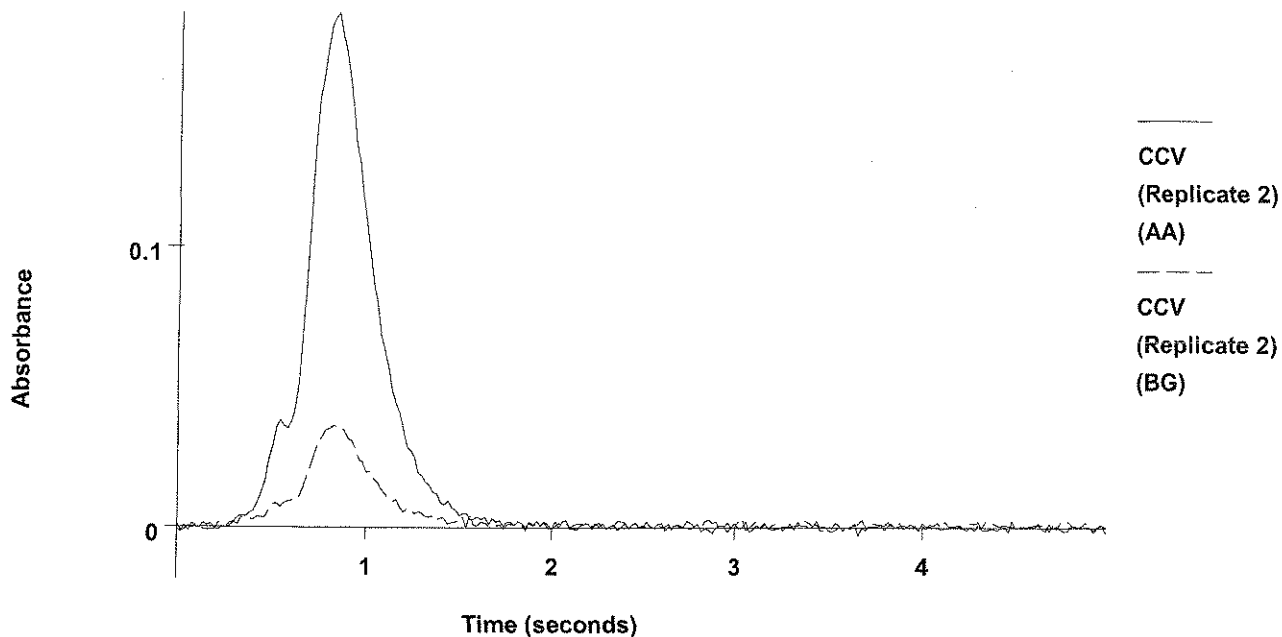
0606346-13  
(Replicate 2)  
(BG)

Mean:           0.4           0.4           0.0029  
SD :            0.16          0.16          0.0004  
%RSD:          37.01         37.01         14.84

=====  
Element: Pb   Seq. No.: 279       AS Loc.: 126   Date: 06/27/2006  
Sample ID: CCV  
µL dispensed: 10 from 141, 5 from 146, 15 from 126  
=====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.1	26.1	0.0728	0.0743	0.1936	0.0170	0.0381	03:07:44	Yes
2	27.6	27.6	0.0769	0.0784	0.1835	0.0192	0.0365	03:10:38	Yes

Pb



Mean: 26.8 26.8 0.0749  
 SD : 1.08 1.08 0.0029  
 %RSD: 4.03 4.03 3.94

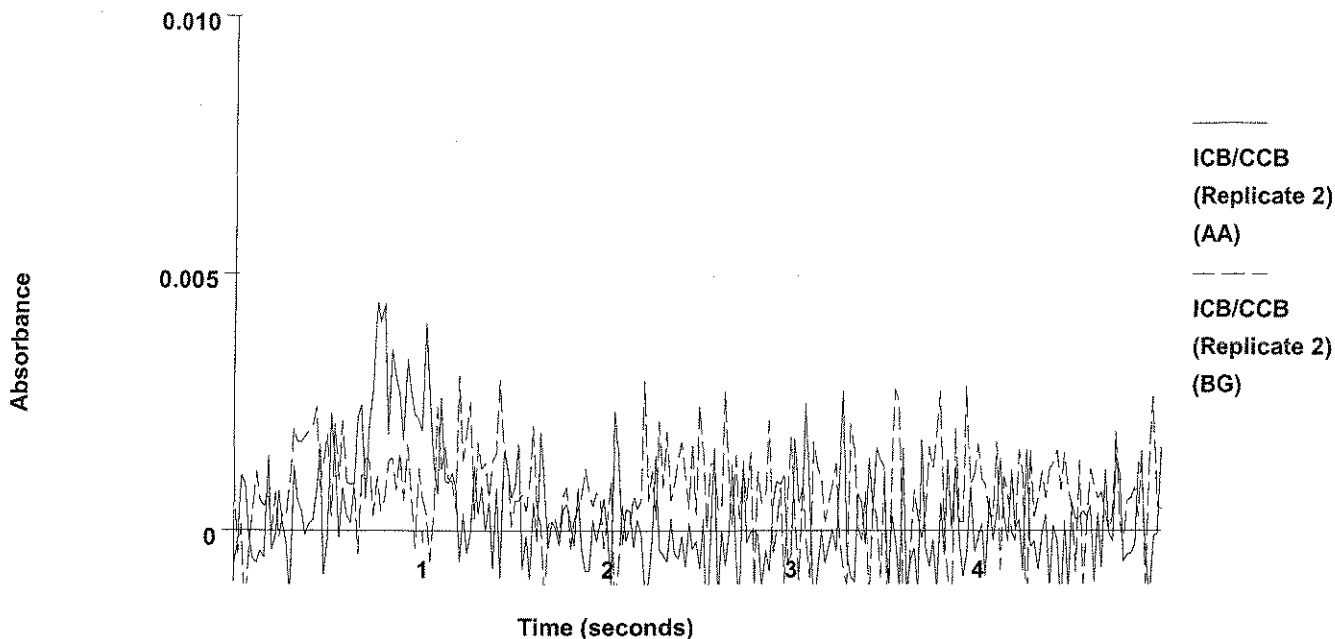


QC value within specified limits.

=====  
 Element: Pb Seq. No.: 280 AS Loc.: 141 Date: 06/27/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 141, 5 from 146, 15 from 141

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0001	0.0014	0.0039	0.0046	0.0040	03:13:33	Yes
2	-0.5	-0.5	0.0003	0.0018	0.0044	0.0036	0.0030	03:16:24	Yes

Pb

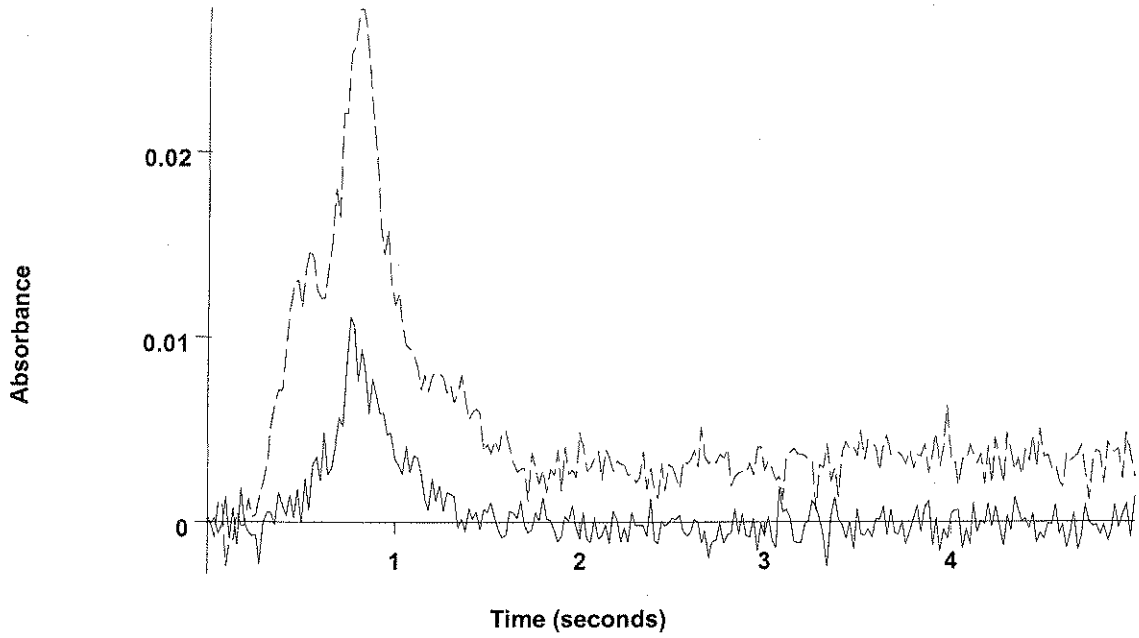


Mean: -0.6 -0.6 0.0001  
 SD : 0.10 0.10 0.0003  
 %RSD: 16.84 16.84 229.43  
 QC value within specified limits.

=====  
 Element: Pb Seq. No.: 281 AS Loc.: 22 Date: 06/27/2006  
 Sample ID: 0606346-14  
 µL dispensed: 10 from 141, 5 from 146, 15 from 22

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0021	0.0036	0.0092	0.0281	0.0246	03:19:16	Yes
2	-0.1	-0.1	0.0015	0.0029	0.0111	0.0261	0.0278	03:22:07	Yes

Pb



0606346-14  
(Replicate 2)  
(AA)

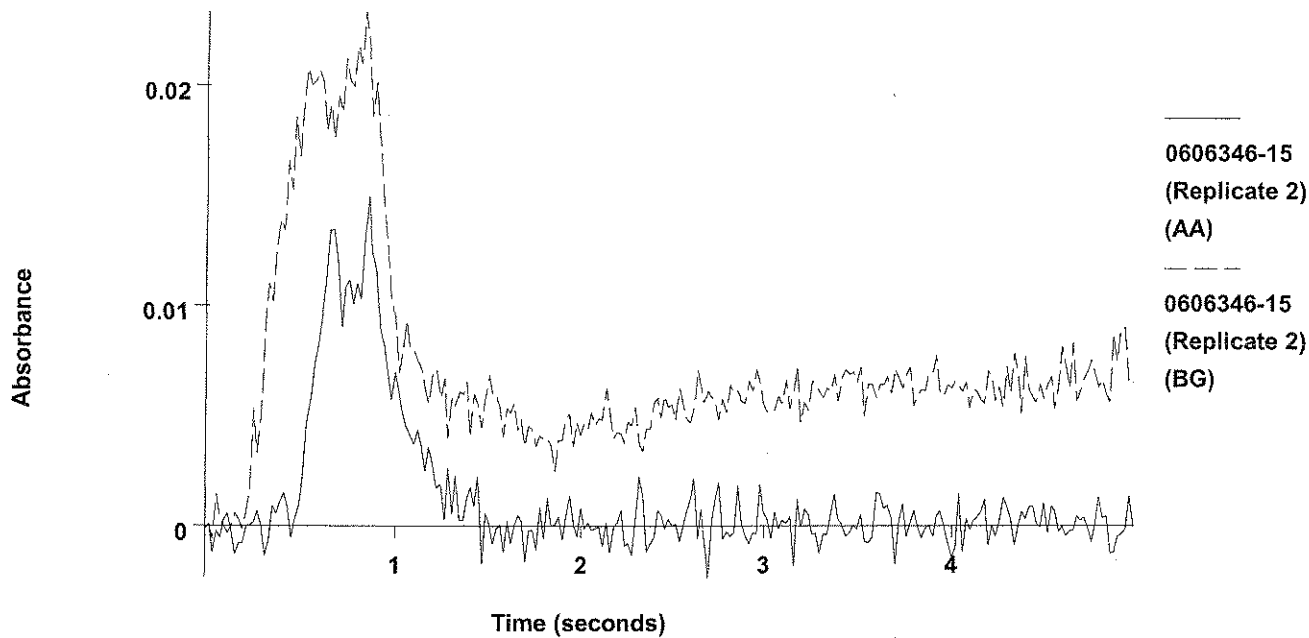
0606346-14  
(Replicate 2)  
(BG)

Mean: 0.0 0.0 0.0018  
SD : 0.17 0.17 0.0005  
%RSD: 1033 1033 25.78

=====  
Element: Pb Seq. No.: 282 AS Loc.: 23 Date: 06/27/2006  
Sample ID: 0606346-15  
µL dispensed: 10 from 141, 5 from 146, 15 from 23  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.0	1.0	0.0045	0.0060	0.0140	0.0369	0.0234	03:24:59	Yes
2	1.1	1.1	0.0046	0.0061	0.0150	0.0359	0.0233	03:27:51	Yes

Pb

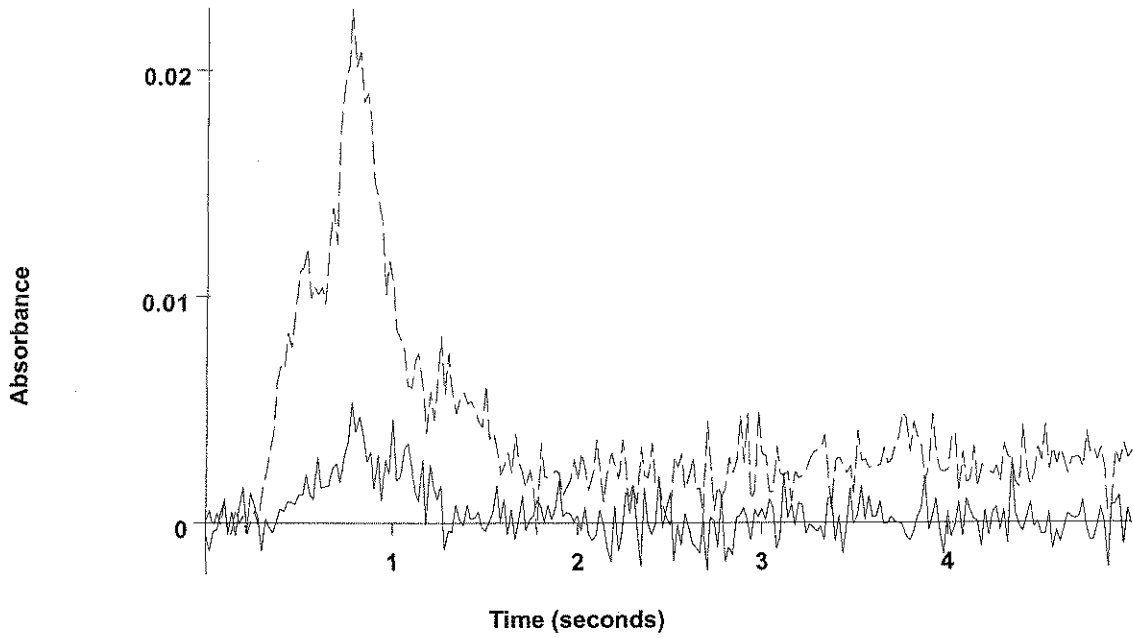


Mean: 1.0 1.0 0.0046  
 SD : 0.03 0.03 0.0001  
 %RSD: 2.56 2.56 1.59

=====  
 Element: Pb Seq. No.: 283 AS Loc.: 24 Date: 06/27/2006  
 Sample ID: 0606346-01 dis  
 µL dispensed: 10 from 141, 5 from 146, 15 from 24  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.8	-0.8	-0.0005	0.0009	0.0038	0.0207	0.0194	03:30:41	Yes
2	-0.3	-0.3	0.0008	0.0023	0.0053	0.0205	0.0227	03:33:33	Yes

Pb



0606346-01 dis  
(Replicate 2)  
(AA)

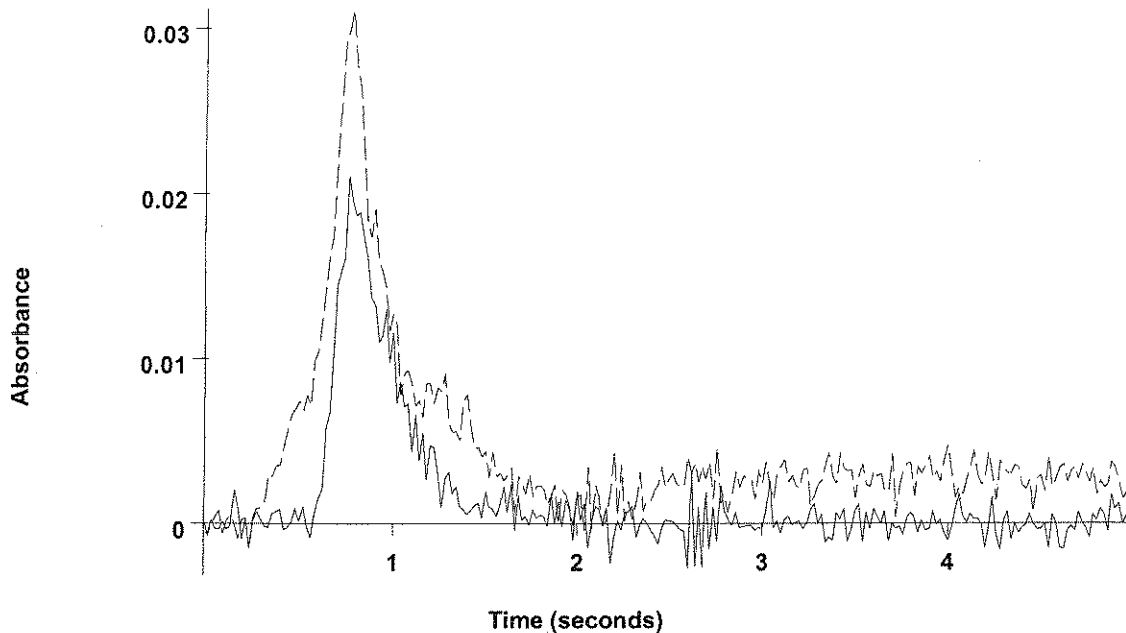
0606346-01 dis  
(Replicate 2)  
(BG)

Mean:            -0.6            -0.6            0.0001  
SD :              0.35            0.35            0.0009  
%RSD:            58.71            58.71            793.70

=====  
Element: Pb    Seq. No.: 284    AS Loc.: 25    Date: 06/27/2006  
Sample ID: 0606346-02 dis  
µL dispensed: 10 from 141, 5 from 146, 15 from 25  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.4	2.4	0.0084	0.0099	0.0211	0.0252	0.0223	03:36:25	Yes
2	1.6	1.6	0.0060	0.0075	0.0210	0.0222	0.0312	03:39:15	Yes

Pb



0606346-02 dis  
(Replicate 2)  
(AA)

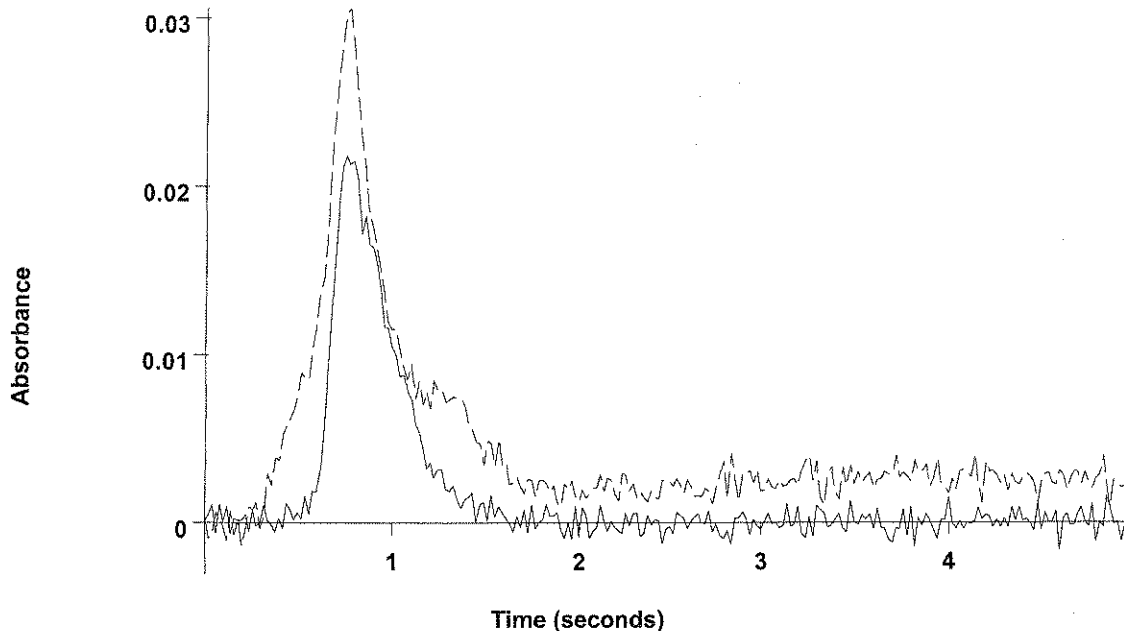
0606346-02 dis  
(Replicate 2)  
(BG)

Mean: 2.0 2.0 0.0072  
SD : 0.61 0.61 0.0017  
%RSD: 30.18 30.18 22.94

=====  
Element: Pb Seq. No.: 285 AS Loc.: 26 Date: 06/27/2006  
Sample ID: 0606346-03 dis  
µL dispensed: 10 from 141, 5 from 146, 15 from 26  
=====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	0.0033	0.0048	0.0137	0.0268	0.0254	03:42:06	Yes
2	1.8	1.8	0.0067	0.0082	0.0218	0.0223	0.0305	03:44:57	Yes

Pb



0606346-03 dis  
(Replicate 2)  
(AA)

0606346-03 dis  
(Replicate 2)  
(BG)

Mean:	1.2	1.2	0.0050
SD :	0.88	0.88	0.0024
%RSD:	72.65	72.65	47.71

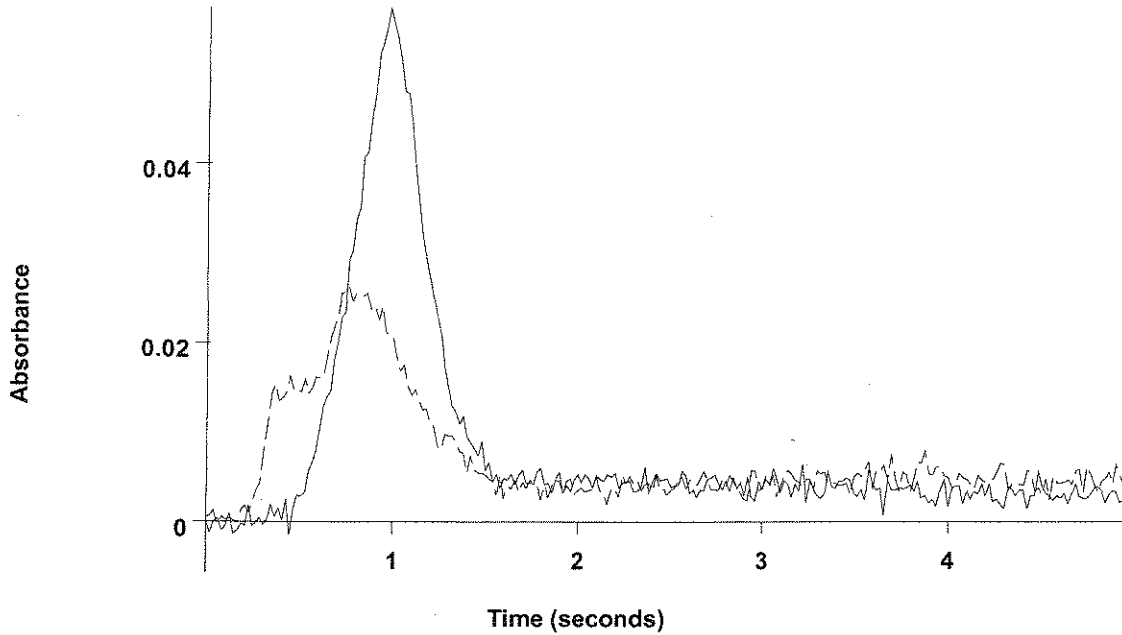
*Handwritten signature*

=====  
 Element: Pb    Seq. No.: 286    AS Loc.: 27    Date: 06/27/2006  
 Sample ID: 0606346-05 dis  
 µL dispensed: 10 from 141, 5 from 146, 15 from 27  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.3	7.3	0.0216	0.0231	0.0424	0.0276	0.0251	03:47:48	Yes
2	13.7	13.7	0.0390	0.0405	0.0574	0.0349	0.0262	03:50:38	Yes



Pb



-----  
 0606346-05 dis  
 (Replicate 2)  
 (AA)  
 -----  
 0606346-05 dis  
 (Replicate 2)  
 (BG)

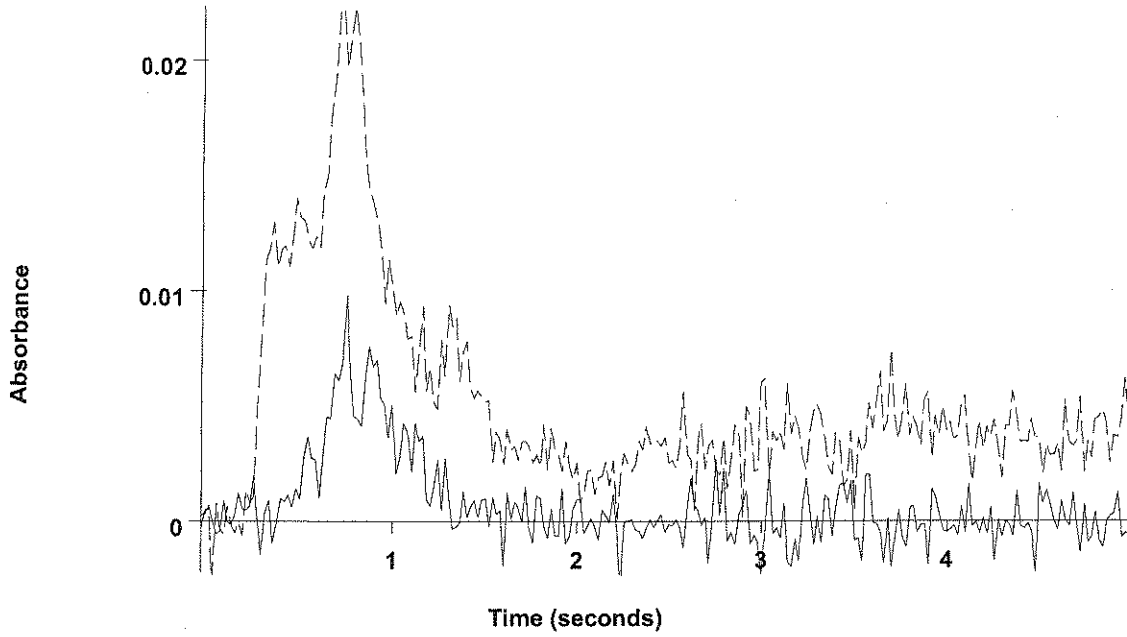
Mean: 10.5 10.5 0.0303  
 SD : 4.50 4.50 0.0123  
 %RSD: 42.96 42.96 40.51

*Mean high RSD*

=====  
 Element: Pb Seq. No.: 287 AS Loc.: 28 Date: 06/27/2006  
 Sample ID: 0606346-06 dis  
 µL dispensed: 10 from 141, 5 from 146, 15 from 28  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.2	5.2	0.0159	0.0174	0.0281	0.0319	0.0235	03:53:28	Yes
2	0.1	0.1	0.0019	0.0034	0.0098	0.0258	0.0223	03:56:18	Yes

Pb



0606346-06 dis  
(Replicate 2)  
(AA)

0606346-06 dis  
(Replicate 2)  
(BG)

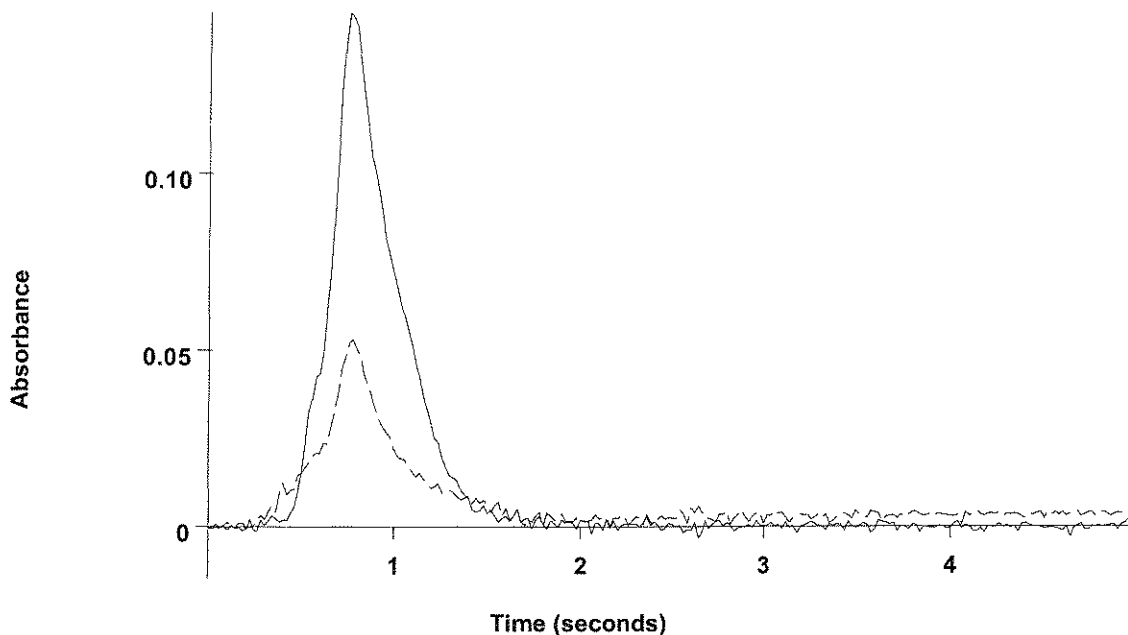
Mean: 2.6 2.6 0.0089  
SD : 3.62 3.62 0.0099  
%RSD: 137.9 137.9 111.05

*Return  
high RSD*

=====  
Element: Pb Seq. No.: 288 AS Loc.: 28 Date: 06/27/2006  
Sample ID: 0606346-06 dis  
µL dispensed: 4 from 141, 5 from 146, 6 from 131, 15 from 28  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	21.6	21.6	0.0606	0.0621	0.1291	0.0411	0.0467	03:59:16	Yes
2	20.9	20.9	0.0588	0.0603	0.1455	0.0350	0.0531	04:02:14	Yes

Pb



0606346-06 dis  
(Replicate 2)  
(AA)

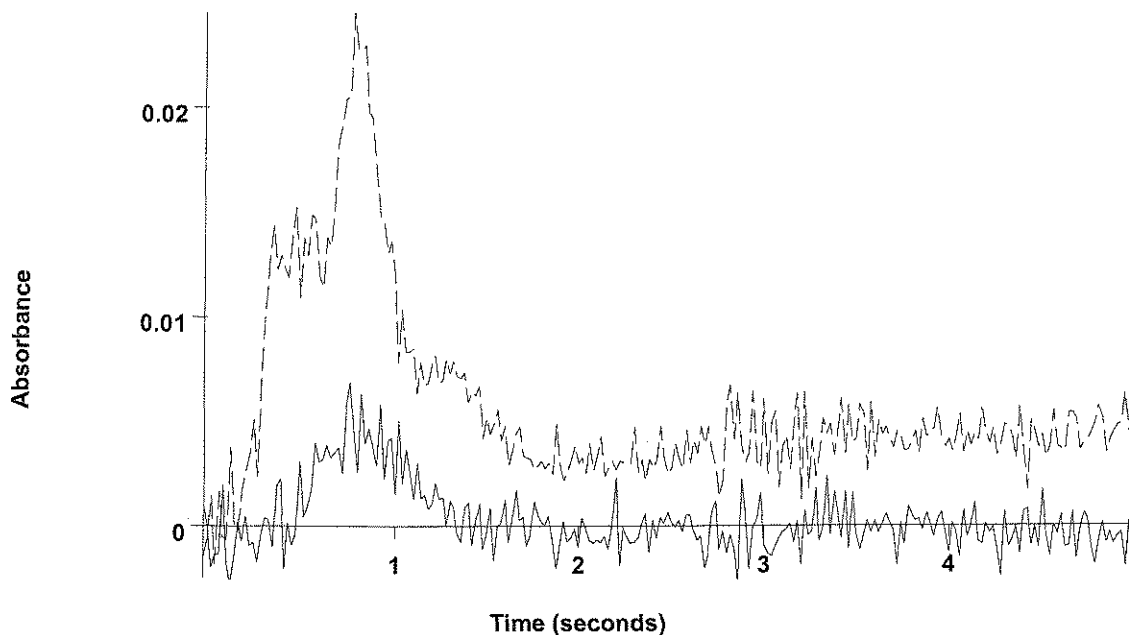
0606346-06 dis  
(Replicate 2)  
(BG)

Mean: 21.3 21.3 0.0597  
 SD : 0.49 0.49 0.0013  
 %RSD: 2.28 2.28 2.22  
 Recovery for Pb = 106.4 % within 85 % to 115 %

=====  
 Element: Pb Seq. No.: 289 AS Loc.: 29 Date: 06/27/2006  
 Sample ID: bf62207-dup1  
 µL dispensed: 10 from 141, 5 from 146, 15 from 29

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	0.0005	0.0020	0.0063	0.0301	0.0217	04:05:04	Yes
2	-0.6	-0.6	0.0000	0.0015	0.0069	0.0288	0.0245	04:07:55	Yes

Pb



-----  
bf62207-dup1  
(Replicate 2)  
(AA)

-----  
bf62207-dup1  
(Replicate 2)  
(BG)

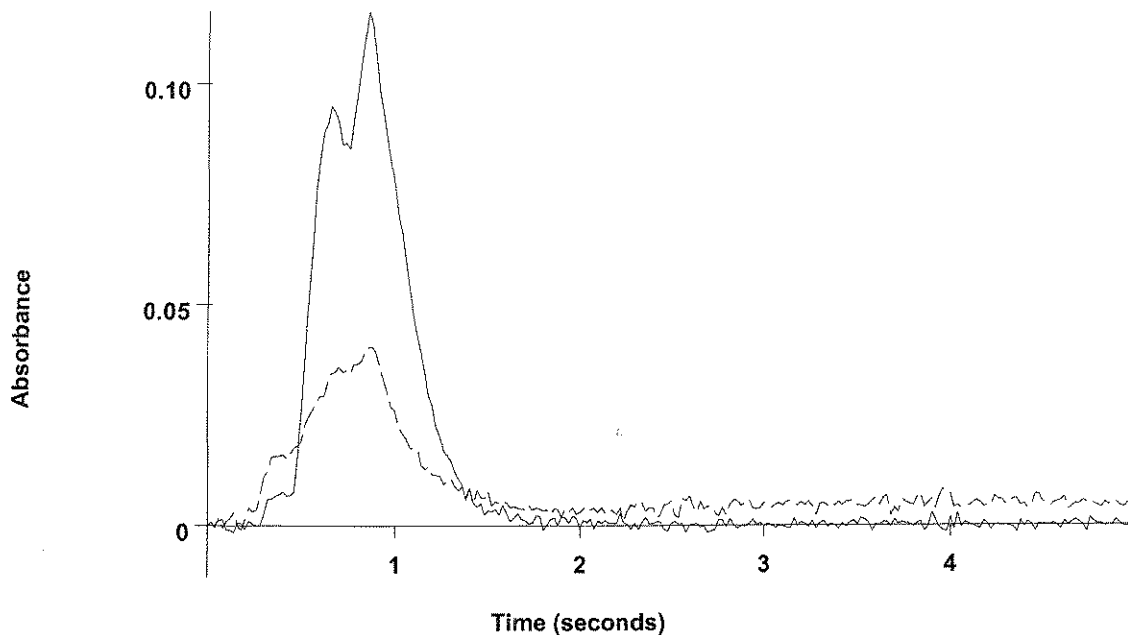
Mean:            -0.5            -0.5            0.0003  
SD :              0.13            0.13            0.0004  
%RSD:            24.66            24.66            143.90

*M*

=====  
Element: Pb    Seq. No.: 290    AS Loc.: 30    Date: 06/27/2006  
Sample ID: bf62207-ms3  
µL dispensed: 10 from 141, 5 from 146, 15 from 30  
-----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.7	20.7	0.0580	0.0595	0.1146	0.0425	0.0410	04:10:46	Yes
2	21.0	21.0	0.0588	0.0603	0.1164	0.0422	0.0405	04:13:37	Yes

Pb



bf62207-ms3  
(Replicate 2)  
(AA)

bf62207-ms3  
(Replicate 2)  
(BG)

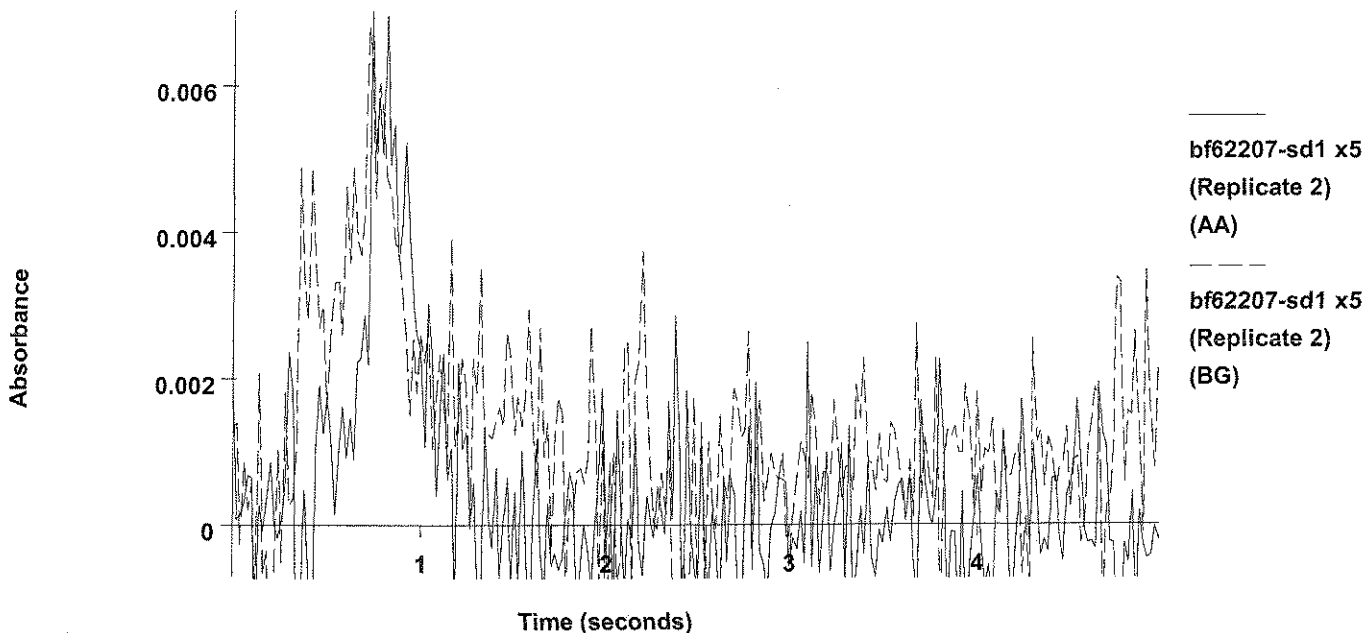
Mean: 20.8 20.8 0.0584  
SD : 0.21 0.21 0.0006  
%RSD: 1.02 1.02 0.99

1045

=====  
Element: Pb Seq. No.: 291 AS Loc.: 31 Date: 06/27/2006  
Sample ID: bf62207-sd1 x5  
µL dispensed: 10 from 141, 5 from 146, 15 from 31  
=====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	0.0006	0.0021	0.0066	0.0071	0.0068	04:16:28	Yes
2	-0.3	-0.3	0.0008	0.0023	0.0070	0.0065	0.0068	04:19:18	Yes

Pb

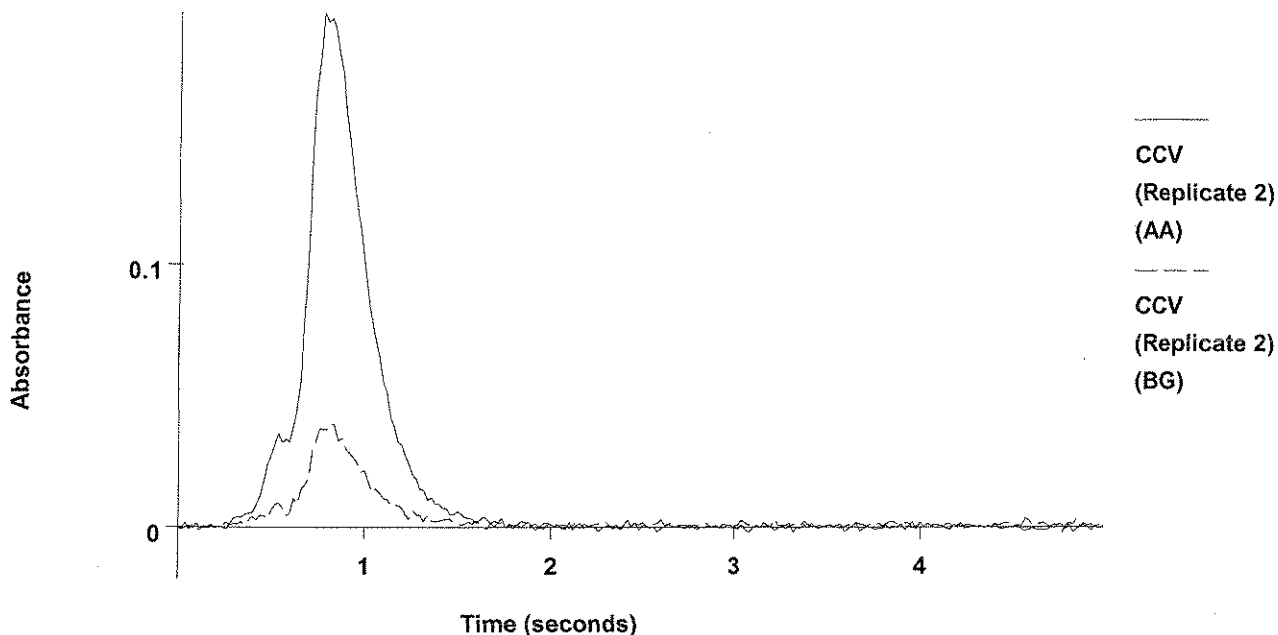


Mean:            -0.4            -0.4            0.0007  
 SD :             0.06            0.06            0.0002  
 %RSD:           15.94           15.94           22.93

=====  
 Element: Pb    Seq. No.: 292    AS Loc.: 126    Date: 06/27/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 141, 5 from 146, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.8	26.8	0.0747	0.0762	0.1836	0.0177	0.0352	04:22:11	Yes
2	26.7	26.7	0.0745	0.0760	0.1953	0.0182	0.0396	04:25:16	Yes

Pb



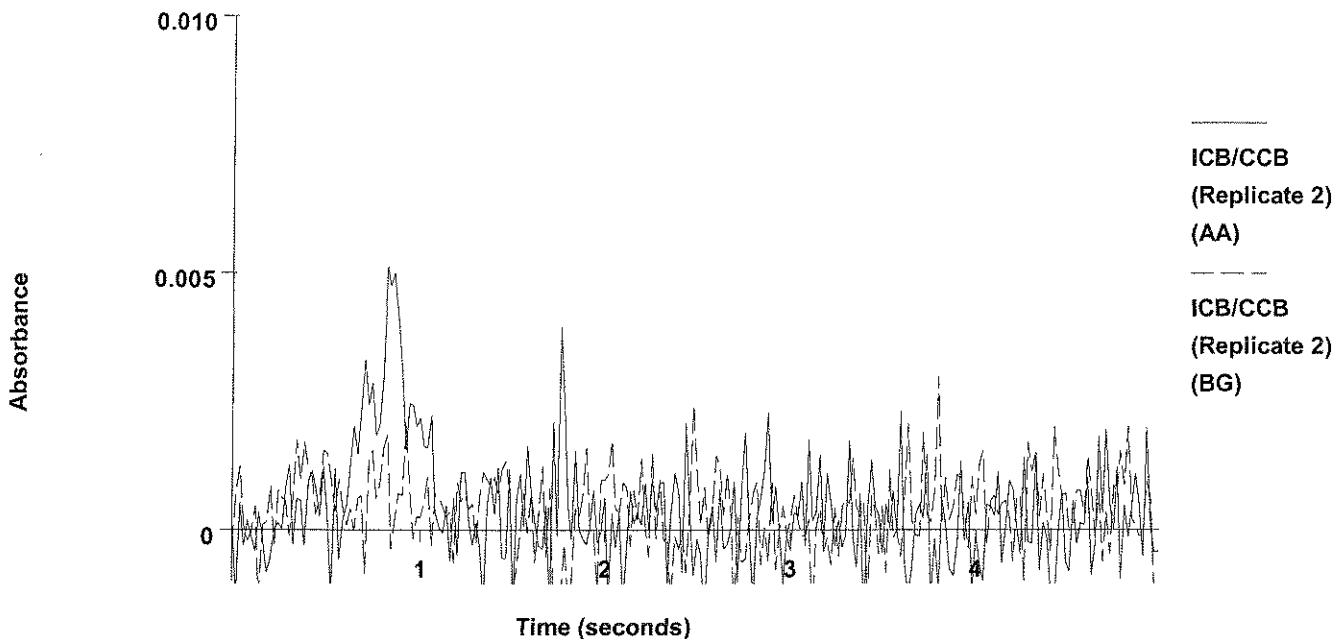
Mean: 26.7 26.7 0.0746  
 SD : 0.05 0.05 0.0001  
 %RSD: 0.19 0.19 0.19

QC value within specified limits.

=====  
 Element: Pb Seq. No.: 293 AS Loc.: 141 Date: 06/27/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 141, 5 from 146, 15 from 141  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0001	0.0014	0.0050	0.0036	0.0031	04:28:10	Yes
2	-0.4	-0.4	0.0006	0.0021	0.0051	0.0020	0.0030	04:31:02	Yes

Pb



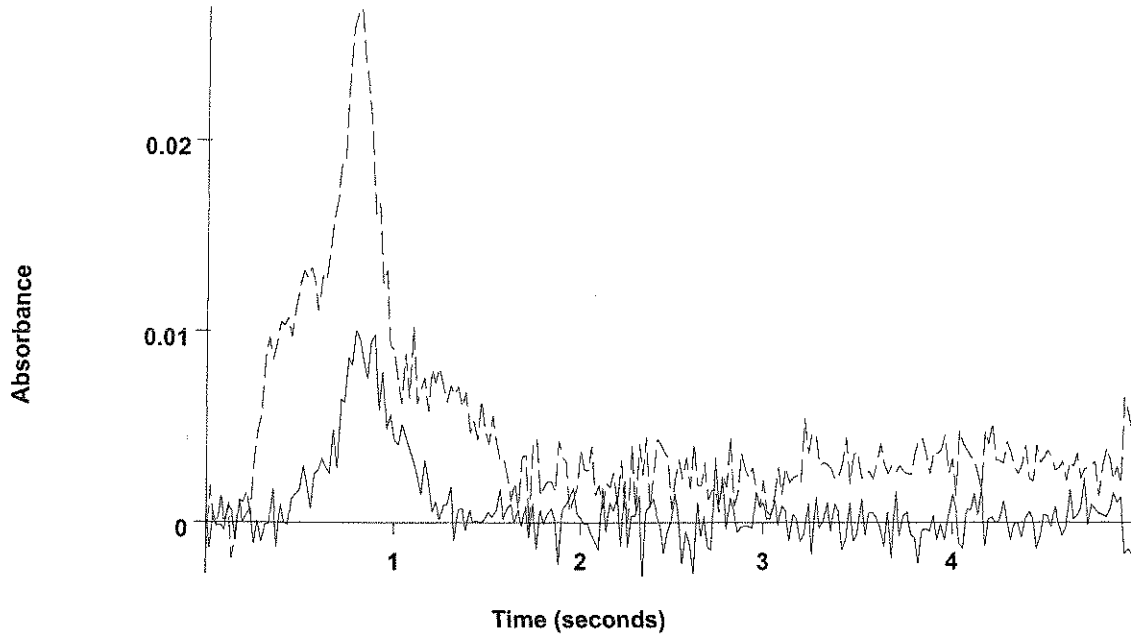
Mean: -0.5 -0.5 0.0003  
 SD : 0.19 0.19 0.0005  
 %RSD: 35.19 35.19 205.11  
 QC value within specified limits.

=====  
 Element: Pb Seq. No.: 294 AS Loc.: 32 Date: 06/27/2006  
 Sample ID: 0606346-07 dis  
 µL dispensed: 10 from 141, 5 from 146, 15 from 32

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0022	0.0037	0.0096	0.0234	0.0264	04:33:54	Yes
2	0.3	0.3	0.0026	0.0041	0.0101	0.0241	0.0270	04:36:44	Yes



Pb



0606346-07 dis  
(Replicate 2)  
(AA)

0606346-07 dis  
(Replicate 2)  
(BG)

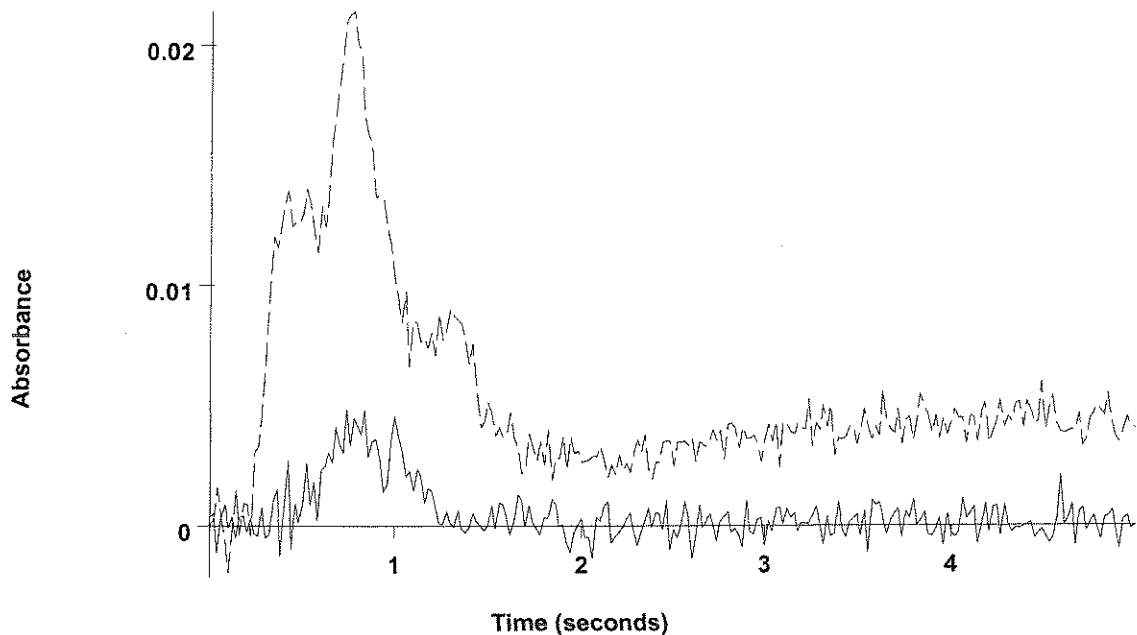
Mean:           0.3           0.3           0.0024  
SD :            0.10          0.10          0.0003  
%RSD:          38.82         38.82         10.97

*Handwritten signature*

=====  
Element: Pb   Seq. No.: 295   AS Loc.: 33   Date: 06/27/2006  
Sample ID: 0606346-08 dis  
µL dispensed: 10 from 141, 5 from 146, 15 from 33  
=====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	0.0006	0.0020	0.0054	0.0258	0.0249	04:39:35	Yes
2	-0.2	-0.2	0.0011	0.0025	0.0049	0.0278	0.0214	04:42:25	Yes

Pb



0606346-08 dis  
(Replicate 2)  
(AA)

0606346-08 dis  
(Replicate 2)  
(BG)

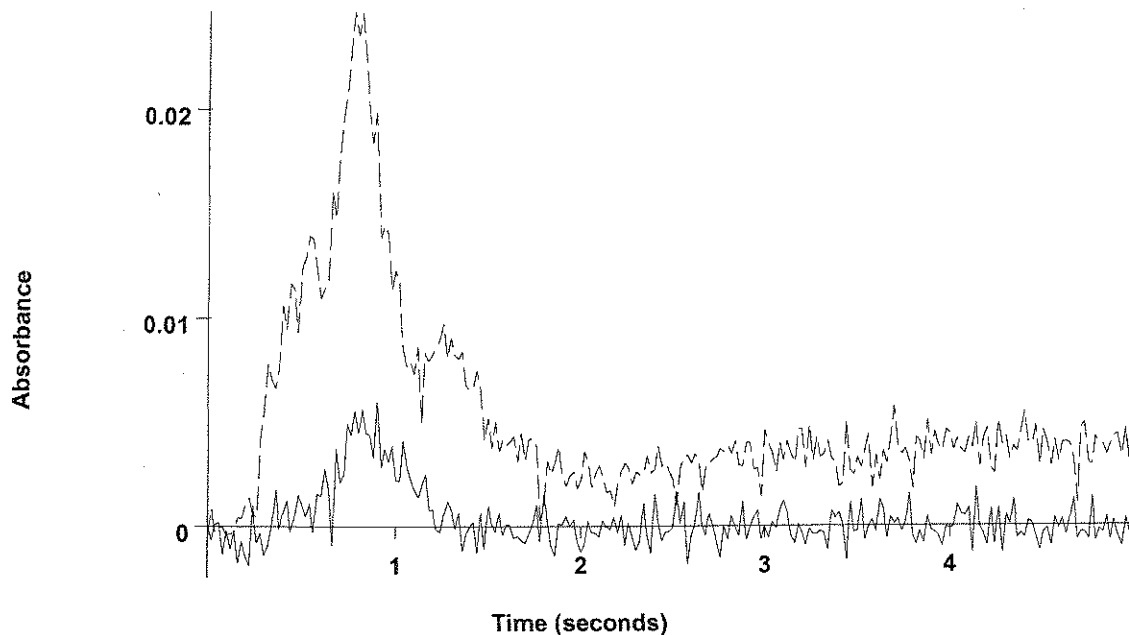
Mean:            -0.3            -0.3            0.0008  
SD :              0.13            0.13            0.0004  
%RSD:           38.84           38.84           43.72

*Handwritten signature*

=====  
Element: Pb    Seq. No.: 296    AS Loc.: 34    Date: 06/27/2006  
Sample ID: 0606346-09 dis  
μL dispensed: 10 from 141, 5 from 146, 15 from 34  
=====

Repl #	SampleConc μg/L	StndConc μg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0019	0.0034	0.0058	0.0294	0.0240	04:45:16	Yes
2	-0.6	-0.6	0.0001	0.0016	0.0060	0.0261	0.0247	04:48:06	Yes

Pb



0606346-09 dis  
(Replicate 2)  
(AA)

0606346-09 dis  
(Replicate 2)  
(BG)

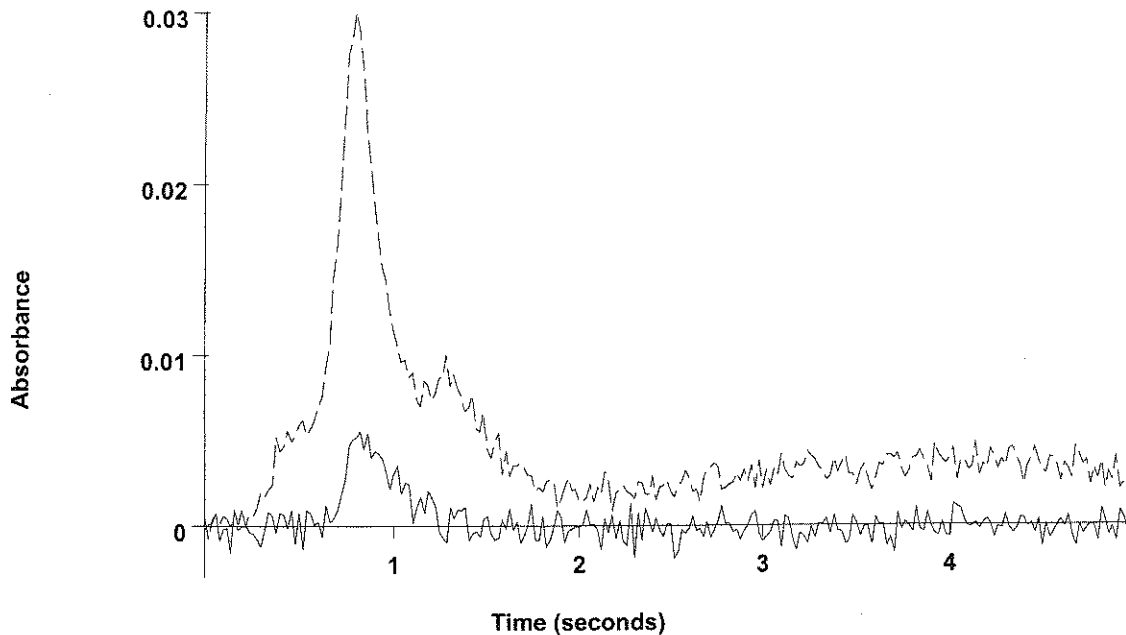
Mean:        -0.3        -0.3        0.0010  
SD :         0.46        0.46        0.0012  
%RSD:       174.2       174.2       122.61

*Handwritten signature*

=====  
Element: Pb    Seq. No.: 297    AS Loc.: 35    Date: 06/27/2006  
Sample ID: 0606346-10 dis  
µL dispensed: 10 from 141, 5 from 146, 15 from 35  
=====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	0.0007	0.0022	0.0047	0.0236	0.0227	04:50:57	Yes
2	-0.8	-0.8	-0.0004	0.0011	0.0056	0.0238	0.0301	04:53:47	Yes

Pb



0606346-10 dis  
(Replicate 2)  
(AA)

0606346-10 dis  
(Replicate 2)  
(BG)

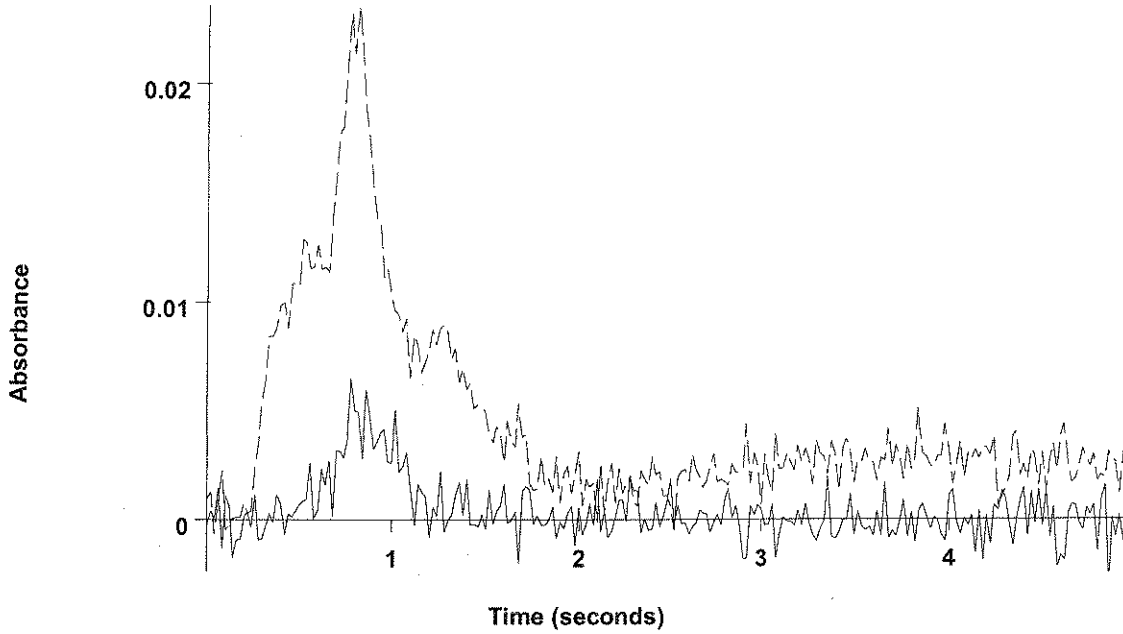
Mean:            -0.6            -0.6            0.0002  
SD :              0.30            0.30            0.0008  
%RSD:            51.44            51.44            512.35

*Handwritten signature*

=====  
Element: Pb    Seq. No.: 298    AS Loc.: 36    Date: 06/27/2006  
Sample ID: 0606346-11 dis  
µL dispensed: 10 from 141, 5 from 146, 15 from 36  
=====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	0.0000	0.0015	0.0073	0.0238	0.0216	04:56:38	Yes
2	-0.4	-0.4	0.0006	0.0021	0.0065	0.0222	0.0236	04:59:28	Yes

Pb



0606346-11 dis  
(Replicate 2)  
(AA)

0606346-11 dis  
(Replicate 2)  
(BG)

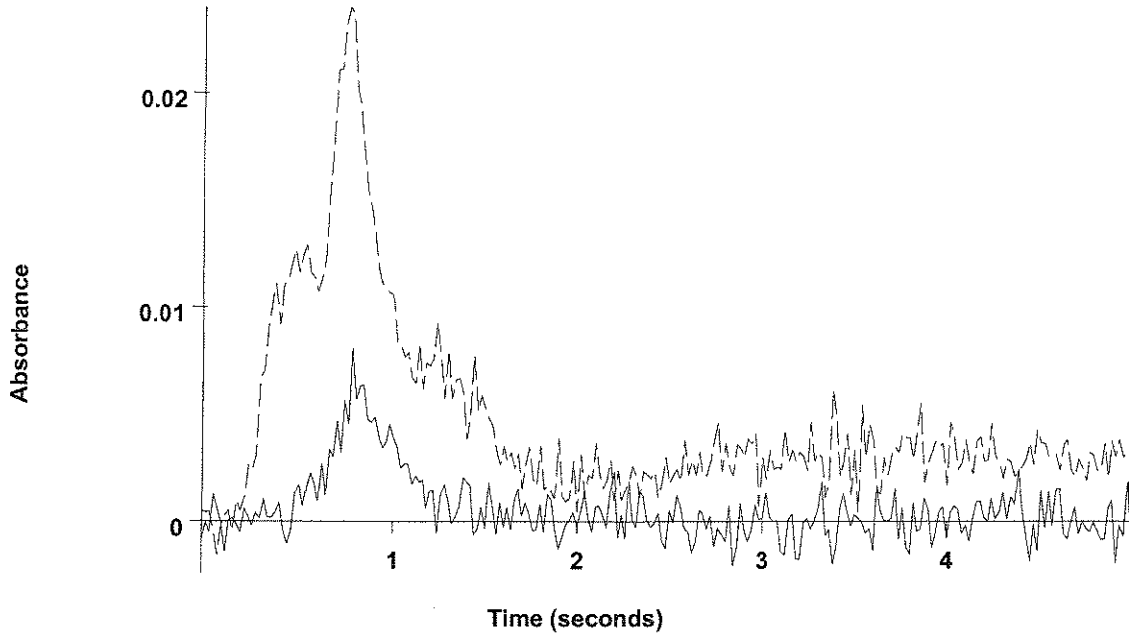
Mean:            -0.5            -0.5            0.0003  
SD :              0.14            0.14            0.0004  
%RSD:            26.81           26.81           122.98

*Handwritten signature*

=====  
Element: Pb      Seq. No.: 299      AS Loc.: 37      Date: 06/27/2006  
Sample ID: 0606346-13 dis  
μL dispensed: 10 from 141, 5 from 146, 15 from 37  
-----

Repl #	SampleConc μg/L	StndConc μg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	0.0018	0.0033	0.0077	0.0243	0.0240	05:02:19	Yes
2	-0.1	-0.1	0.0014	0.0028	0.0081	0.0233	0.0240	05:05:11	Yes

Pb



0606346-13 dis  
(Replicate 2)  
(AA)

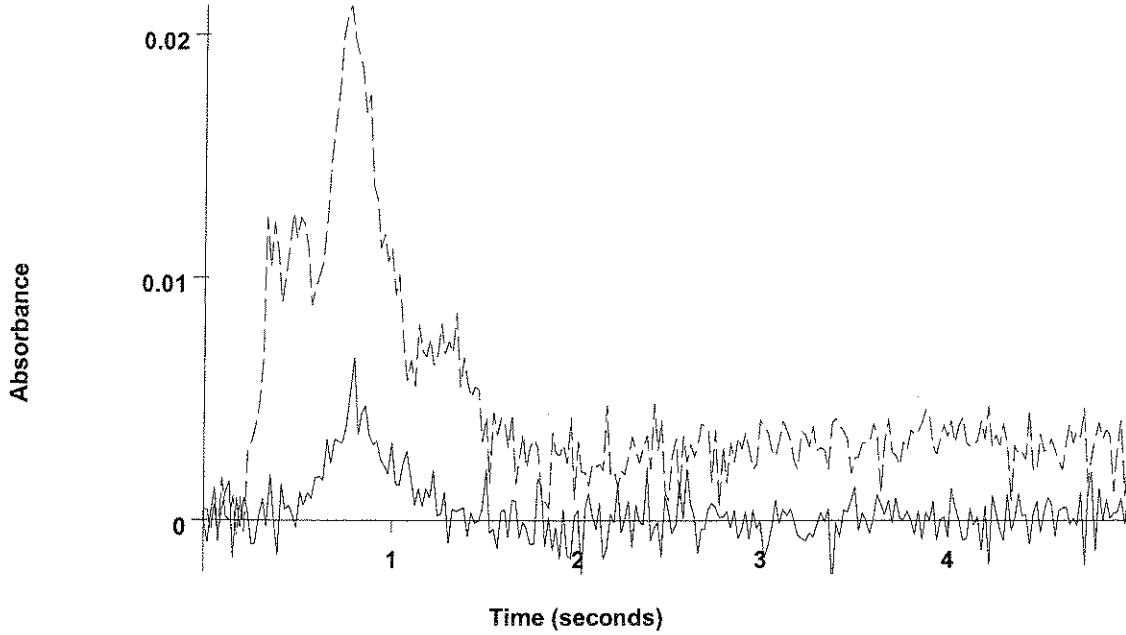
0606346-13 dis  
(Replicate 2)  
(BG)

Mean:        -0.1        -0.1        0.0016  
SD :         0.12        0.12        0.0003  
%RSD:       209.3        209.3        20.14

=====  
Element: Pb    Seq. No.: 300    AS Loc.: 38    Date: 06/27/2006  
Sample ID: 0606346-14 dis  
µL dispensed: 10 from 141, 5 from 146, 15 from 38  
=====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	0.0011	0.0026	0.0049	0.0258	0.0208	05:08:04	Yes
2	-0.4	-0.4	0.0006	0.0021	0.0067	0.0235	0.0212	05:10:56	Yes

Pb



-----  
 0606346-14 dis  
 (Replicate 2)  
 (AA)  
 -----  
 0606346-14 dis  
 (Replicate 2)  
 (BG)

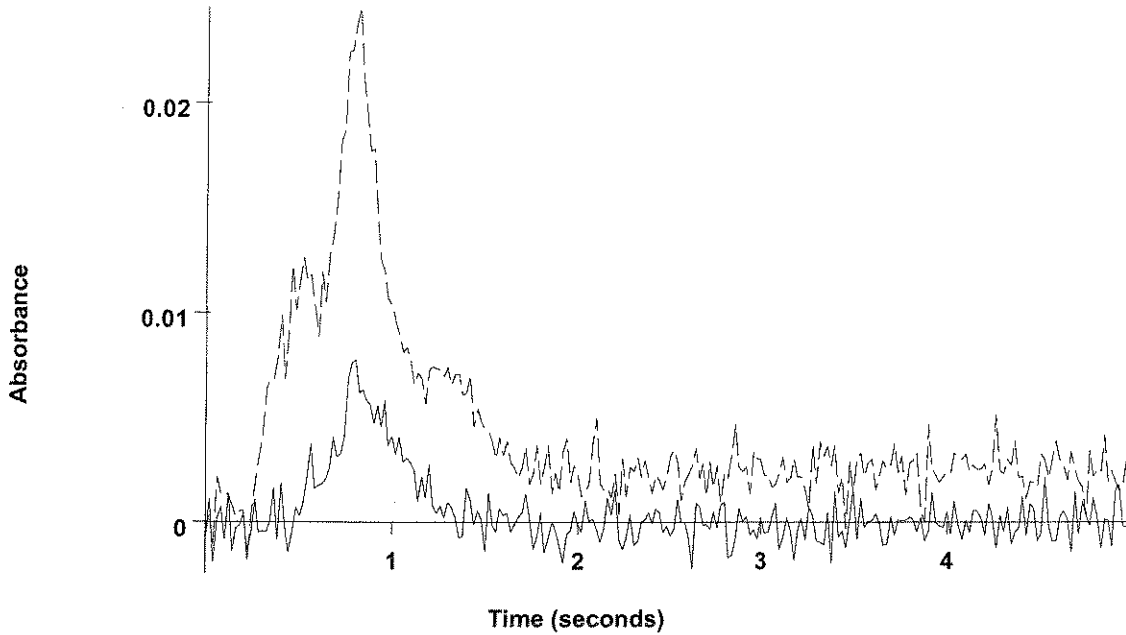
Mean:        -0.3        -0.3        0.0009  
 SD :        0.14        0.14        0.0004  
 %RSD:      43.75      43.75      41.94

*Handwritten signature*

=====  
 Element: Pb    Seq. No.: 301    AS Loc.: 39    Date: 06/27/2006  
 Sample ID: 0606346-15 dis  
 µL dispensed: 10 from 141, 5 from 146, 15 from 39  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	0.0016	0.0031	0.0071	0.0246	0.0198	05:13:47	Yes
2	-0.3	-0.3	0.0009	0.0024	0.0078	0.0219	0.0246	05:16:39	Yes

Pb



0606346-15 dis  
(Replicate 2)  
(AA)

0606346-15 dis  
(Replicate 2)  
(BG)

Mean:            -0.2            -0.2            0.0012  
SD :              0.18            0.18            0.0005  
%RSD:            100.8           100.8           40.23

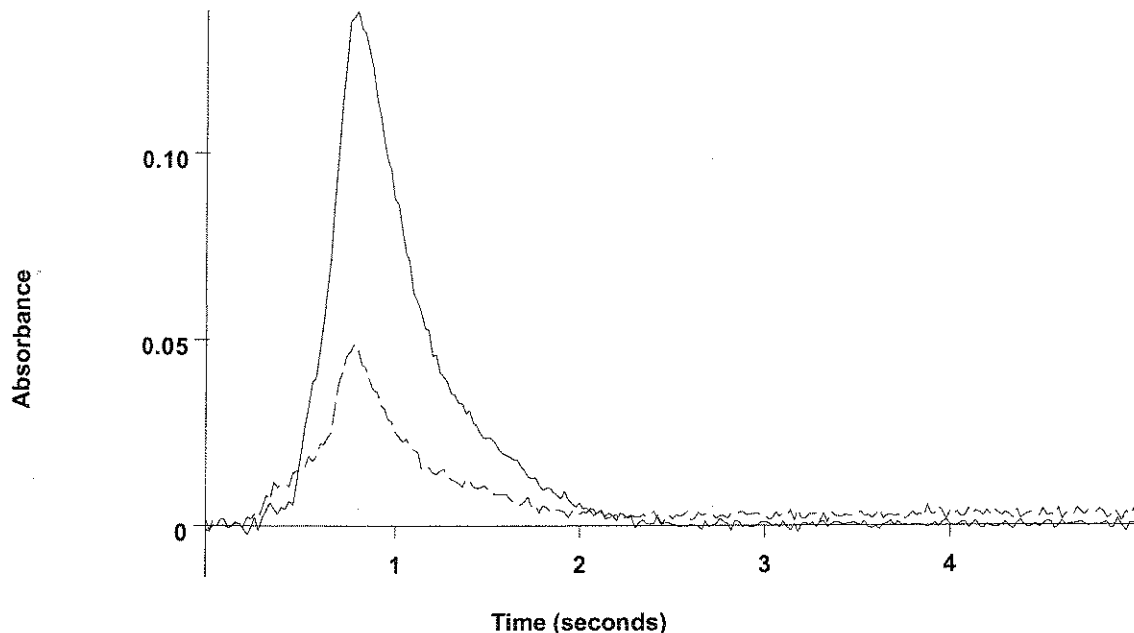
*μ*

=====  
Element: Pb    Seq. No.: 302    AS Loc.: 39    Date: 06/27/2006  
Sample ID: 0606346-15 dis  
μL dispensed: 4 from 141, 5 from 146, 6 from 131, 15 from 39  
=====

Repl #	SampleConc μg/L	StndConc μg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.9	20.9	0.0586	0.0600	0.1537	0.0317	0.0591	05:19:40	Yes
2	27.7	27.7	0.0773	0.0788	0.1380	0.0377	0.0489	05:22:39	Yes



Pb



0606346-15 dis  
(Replicate 2)  
(AA)

0606346-15 dis  
(Replicate 2)  
(BG)

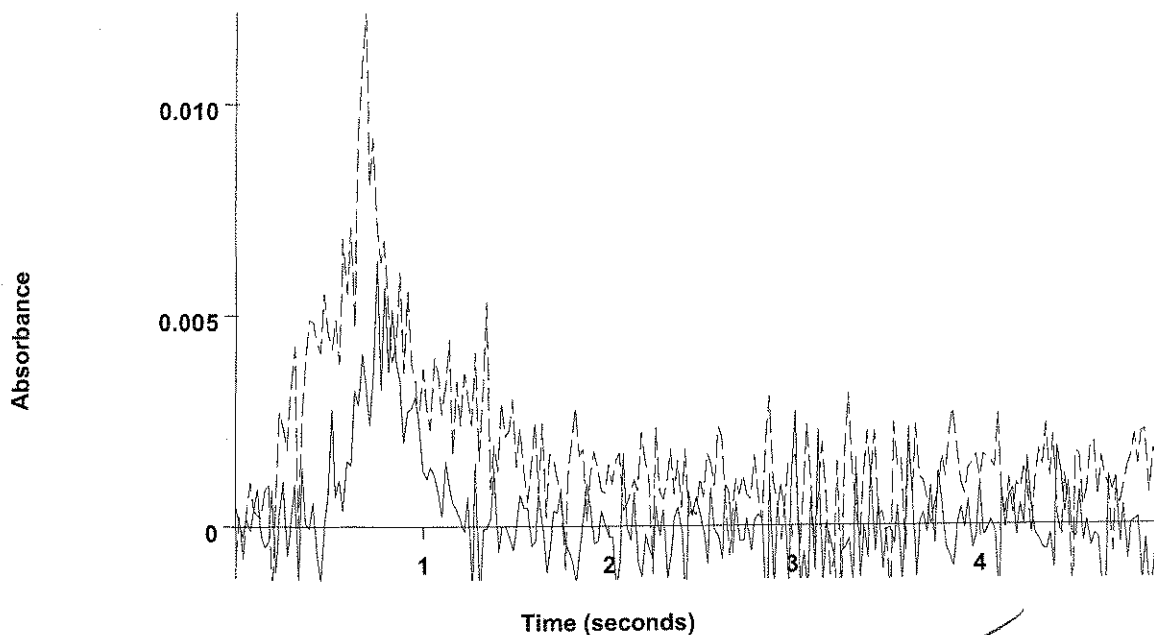
Mean: 24.3 24.3 0.0679  
 SD : 4.86 4.86 0.0133  
 %RSD: 20.02 20.02 19.51  
 Recovery for Pb = 121.5 %, greater than upper limit 115 %

*high*

=====  
 Element: Pb Seq. No.: 303 AS Loc.: 39 Date: 06/27/2006  
 Sample ID: 0606346-15 dis  
 µL dispensed: 20 from 141, 5 from 146, 5 from 39  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-1.5	-0.5	0.0004	0.0019	0.0055	0.0096	0.0092	05:25:32	Yes
2	-2.0	-0.7	-0.0001	0.0014	0.0063	0.0091	0.0122	05:28:23	Yes

Pb



0606346-15 dis  
(Replicate 2)  
(AA)

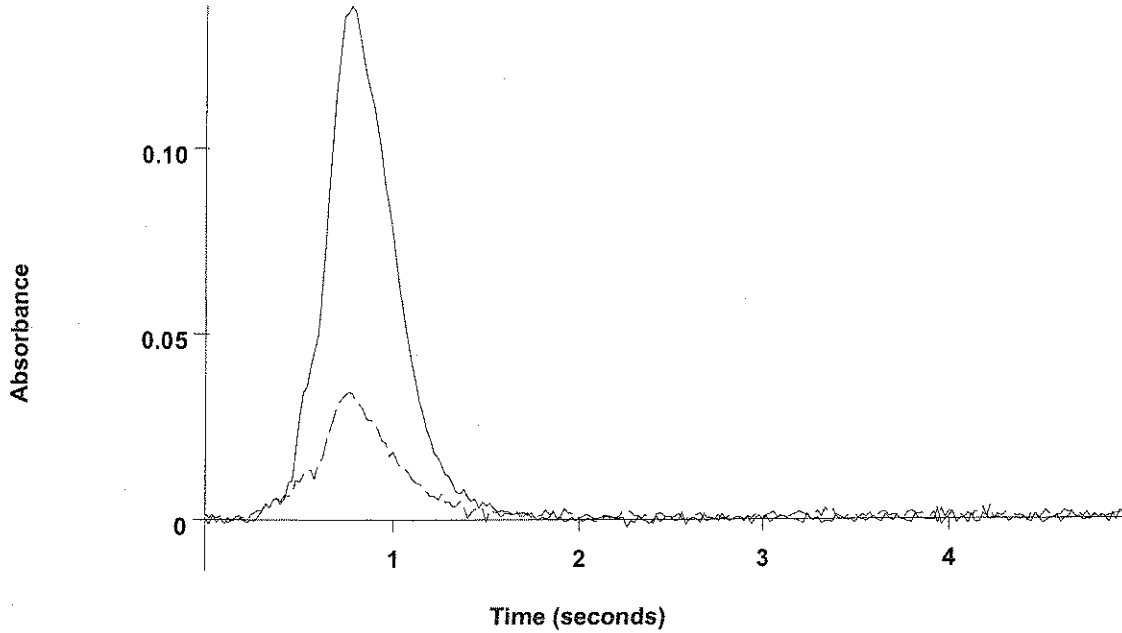
0606346-15 dis  
(Replicate 2)  
(BG)

Mean:        -1.7        -0.6        0.0001  
SD :         0.40        0.13        0.0004  
%RSD:       22.95       22.95       245.19

=====  
Element: Pb    Seq. No.: 304    AS Lot: 39    Date: 06/27/2006  
Sample ID: 0606346-15 dis  
µL dispensed: 14 from 141, 5 from 146, 6 from 131, 5 from 39  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	64.2	21.4	0.0601	0.0616	0.1381	0.0207	0.0343	05:31:24	Yes
2	64.6	21.5	0.0604	0.0619	0.1384	0.0203	0.0344	05:34:24	Yes

Pb



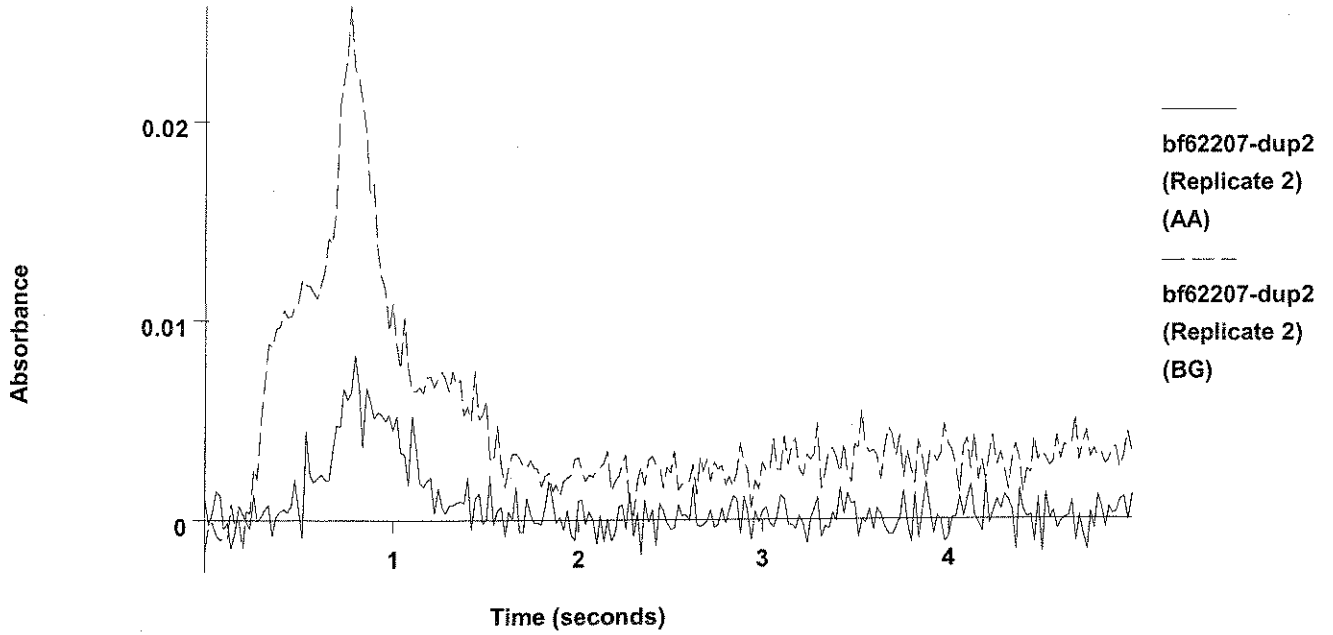
0606346-15 dis  
(Replicate 2)  
(AA)  
0606346-15 dis  
(Replicate 2)  
(BG)

Mean: 64.4 21.5 0.0602  
SD : 0.25 0.08 0.0002  
%RSD: 0.39 0.39 0.38  
Recovery for Pb = 107.4 % within 85 % to 115 %

=====  
Element: Pb Seq. No.: 305 AS Loc.: 40 Date: 06/27/2006  
Sample ID: bf62207-dup2  
µL dispensed: 10 from 141, 5 from 146, 15 from 40  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	0.0012	0.0027	0.0078	0.0238	0.0237	05:37:17	Yes
2	0.2	0.2	0.0023	0.0037	0.0083	0.0232	0.0258	05:40:08	Yes

Pb

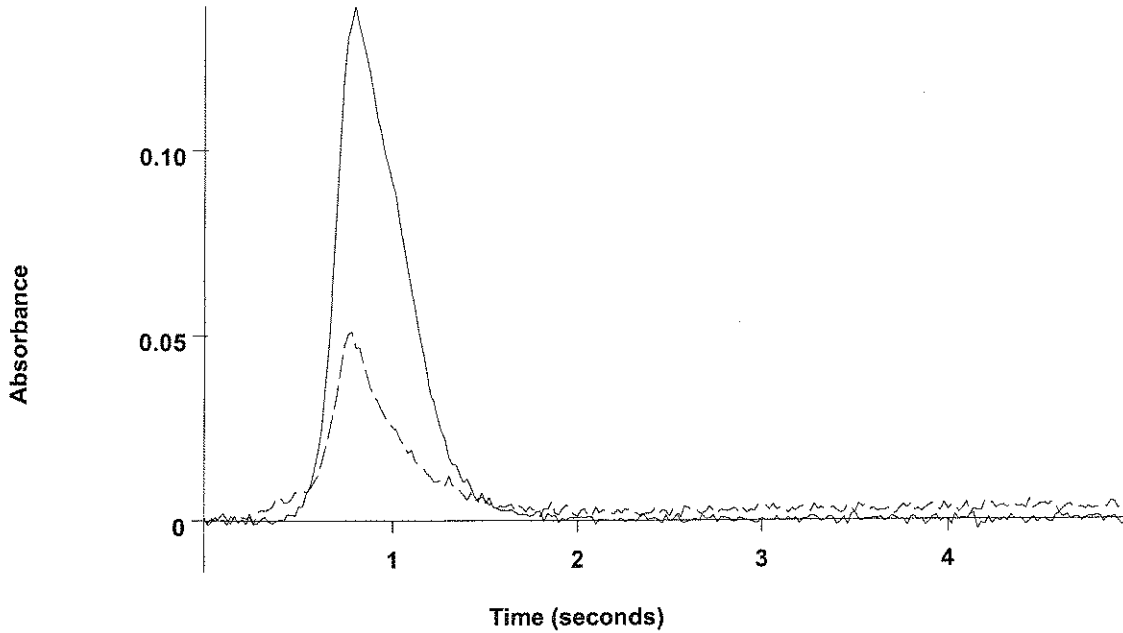


Mean:           0.0           0.0           0.0017  
 SD :            0.27          0.27          0.0007  
 %RSD:          4799          4799          41.70

=====  
 Element: Pb   Seq. No.: 306   AS Loc.: 41   Date: 06/27/2006  
 Sample ID: bf62207-ms4  
 µL dispensed: 10 from 141, 5 from 146, 15 from 41  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.7	20.7	0.0582	0.0597	0.1237	0.0359	0.0452	05:43:00	Yes
2	20.6	20.6	0.0579	0.0594	0.1390	0.0327	0.0511	05:45:51	Yes

Pb



bf62207-ms4  
(Replicate 2)  
(AA)  
bf62207-ms4  
(Replicate 2)  
(BG)

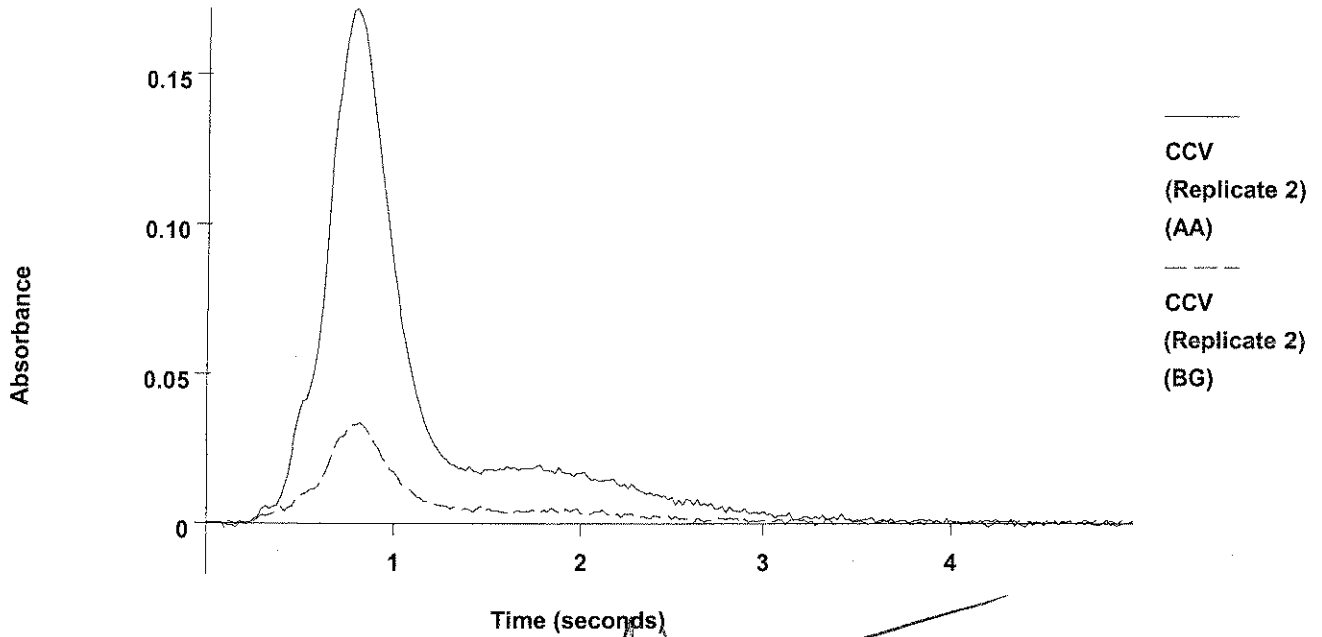
Mean: 20.7 20.7 0.0581  
SD : 0.08 0.08 0.0002  
%RSD: 0.39 0.39 0.38

1045

=====  
Element: Pb Seq. No.: 307 AS Loc.: 126 Date: 06/27/2006  
Sample ID: CCV  
µL dispensed: 10 from 141, 5 from 146, 15 from 126  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.0	27.0	0.0754	0.0769	0.1741	0.0179	0.0345	05:48:45	Yes
2	34.0	34.0	0.0943	0.0958	0.1719	0.0215	0.0337	05:51:39	Yes

Pb

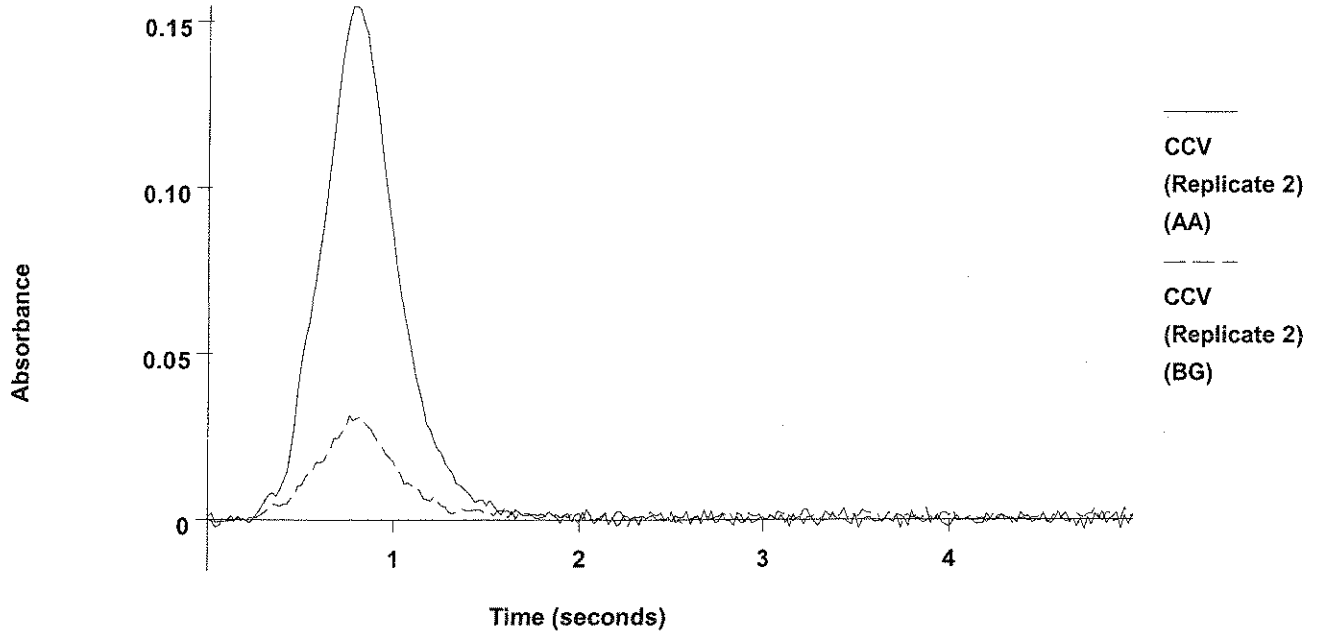


Mean: 30.5 30.5 0.0849  
 SD : 4.90 4.90 0.0134  
 %RSD: 16.07 16.07 15.74  
 QC failed, value greater than upper limit for Pb.

=====  
 Element: Pb Seq. No.: 308 AS Loc.: 126 Date: 06/27/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 141, 5 from 146, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.1	27.1	0.0755	0.0770	0.1667	0.0190	0.0334	05:54:33	Yes
2	26.7	26.7	0.0746	0.0760	0.1547	0.0190	0.0314	05:57:26	Yes

Pb

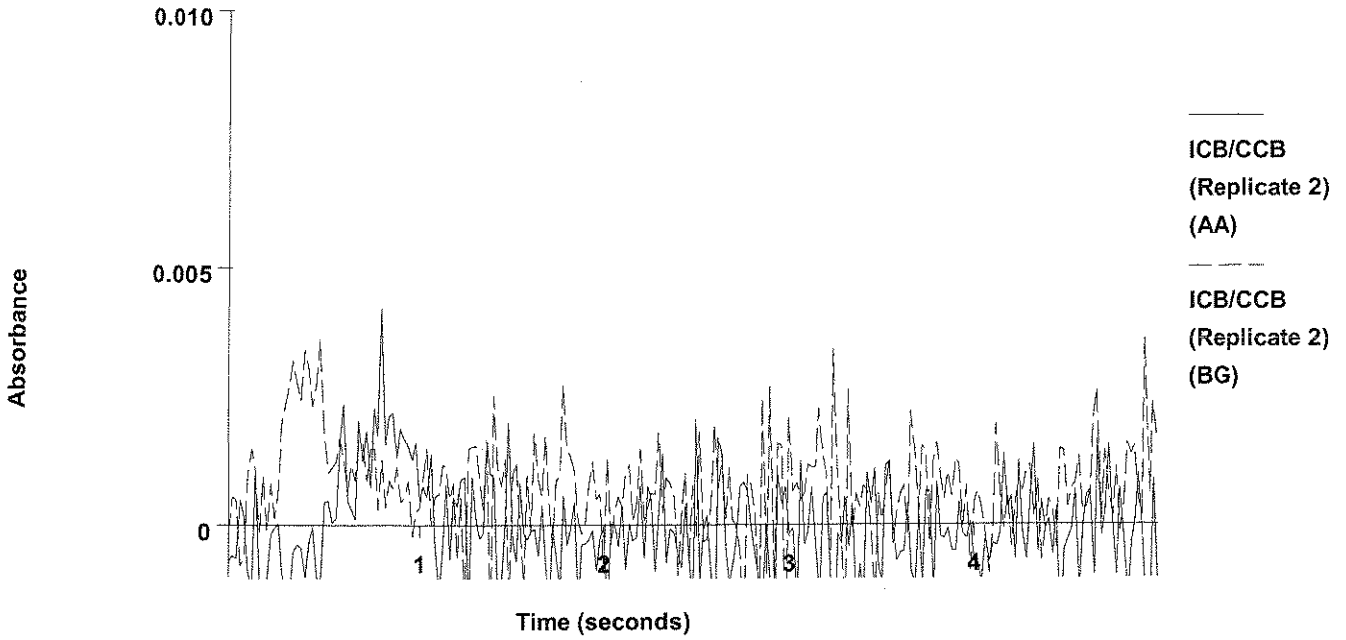


Mean: 26.9 26.9 0.0750  
 SD : 0.25 0.25 0.0007  
 %RSD: 0.92 0.92 0.90  
 QC value within specified limits.

=====  
 Element: Pb Seq. No.: 309 AS Loc.: 141 Date: 06/27/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 141, 5 from 146, 15 from 141  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0002	0.0012	0.0039	0.0047	0.0043	06:00:20	Yes
2	-1.2	-1.2	-0.0017	-0.0002	0.0042	0.0037	0.0036	06:03:14	Yes

Pb



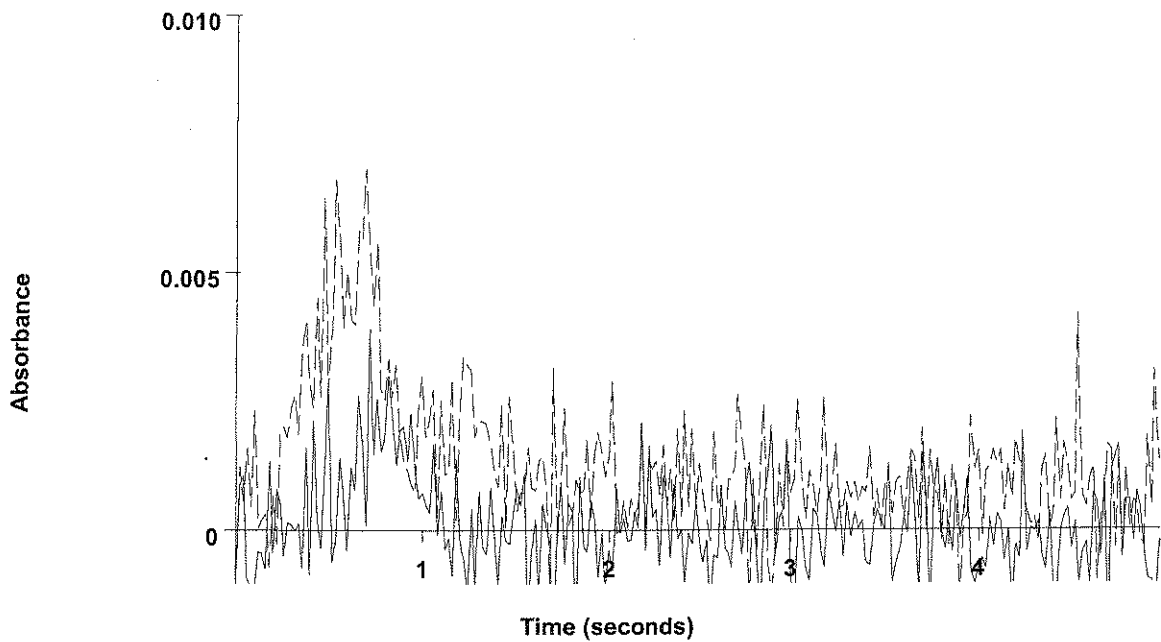
Mean:        -1.0        -1.0        -0.0009  
 SD :        0.37        0.37        0.0010  
 %RSD:      37.78        37.78        106.95  
 QC value within specified limits.

=====  
 Element: Pb    Seq. No.: 310    AS Loc.: 42    Date: 06/27/2006  
 Sample ID: bf62207-sd2 x5  
 µL dispensed: 10 from 141, 5 from 146, 15 from 42  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.8	-0.8	-0.0005	0.0010	0.0041	0.0077	0.0063	06:06:07	Yes
2	-0.9	-0.9	-0.0008	0.0006	0.0039	0.0067	0.0070	06:09:00	Yes



Pb



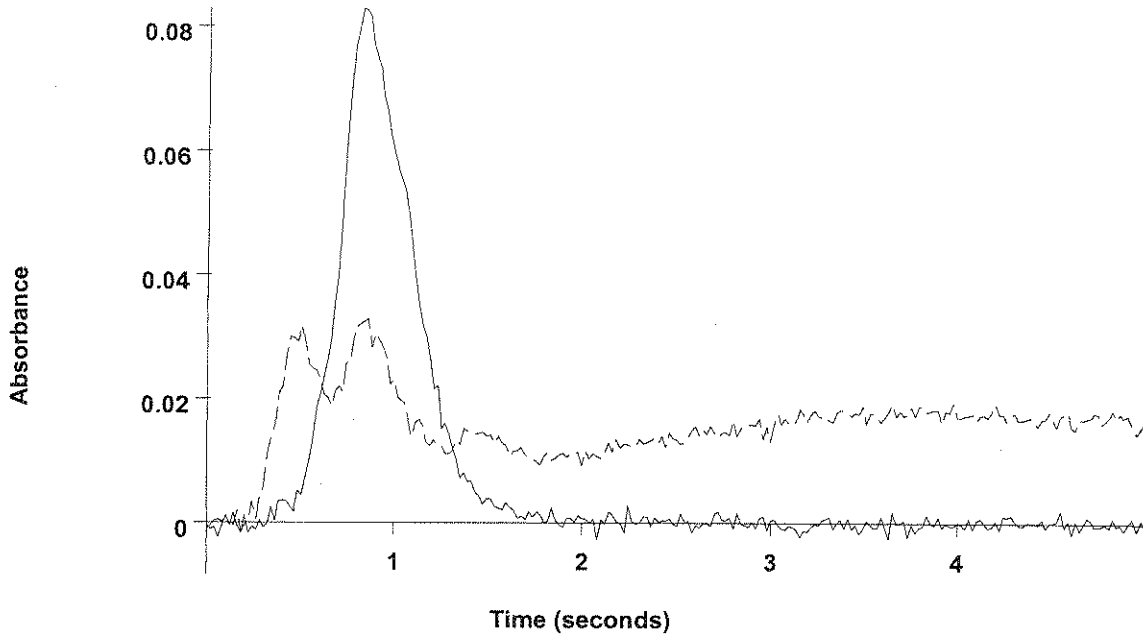
Mean:            -0.9            -0.9            -0.0007  
 SD :             0.08            0.08            0.0002  
 %RSD:           8.87            8.87            31.53

*μ*

=====  
 Element: Pb    Seq. No.: 311    AS Loc.: 43    Date: 06/27/2006  
 Sample ID: bf62301-blk1  
 μL dispensed: 10 from 141, 5 from 146, 15 from 43  
 =====

Repl #	SampleConc μg/L	StndConc μg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.7	7.7	0.0226	0.0241	0.0529	0.0081	0.0114	06:11:52	Yes
2	7.7	7.7	0.0227	0.0242	0.0542	0.0094	0.0113	06:14:43	Yes

Pb



bf62301-dup2  
(Replicate 2)  
(AA)

bf62301-dup2  
(Replicate 2)  
(BG)

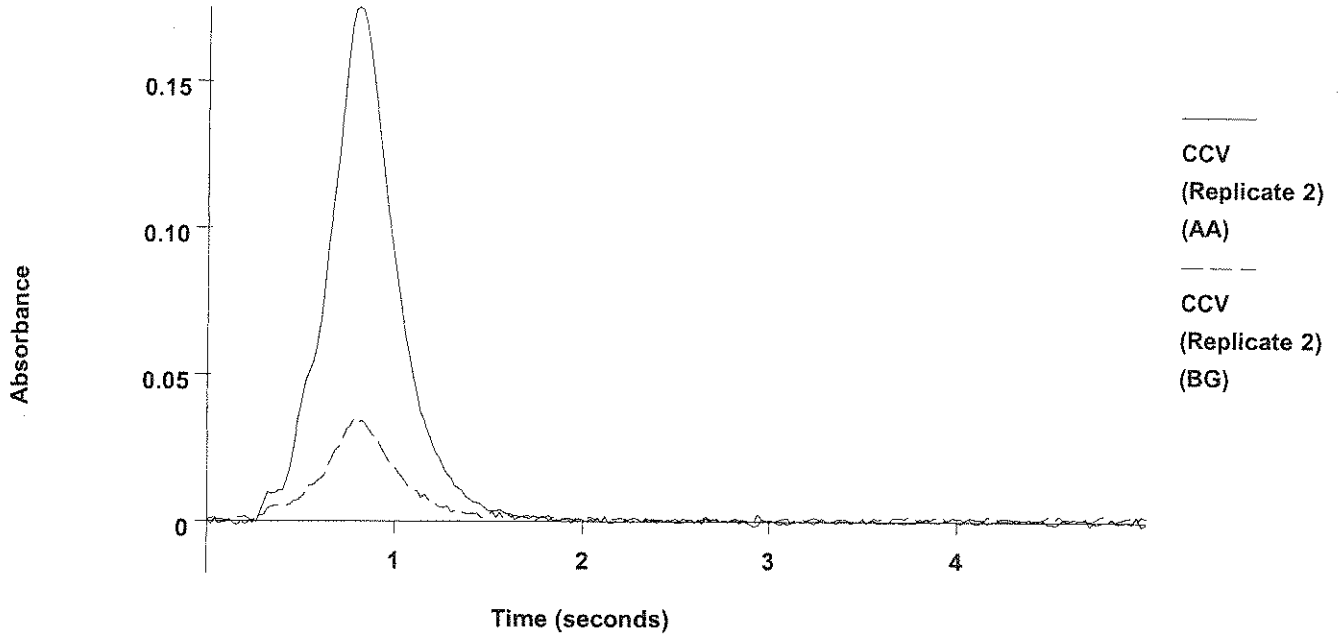
Mean: 12.9 12.9 0.0369  
SD : 0.00 0.00 0.0000  
%RSD: 0.00 0.00 0.00

052

=====  
Element: Pb Seq. No.: 326 AS Loc.: 126 Date: 06/27/2006  
Sample ID: CCV  
µL dispensed: 10 from 141, 5 from 146, 15 from 126  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.2	27.2	0.0759	0.0774	0.1633	0.0203	0.0309	07:39:03	Yes
2	27.1	27.1	0.0757	0.0772	0.1751	0.0197	0.0346	07:41:55	Yes

Pb



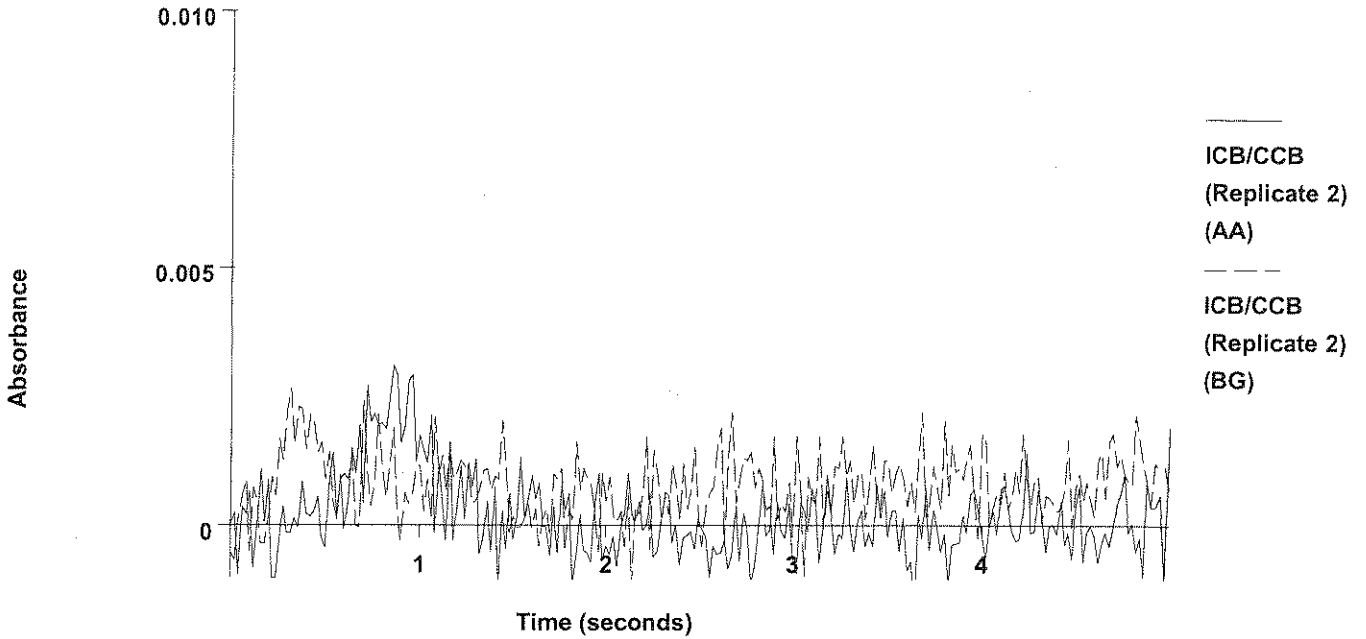
Mean: 27.2 - 27.2 0.0758  
 SD : 0.06 0.06 0.0002  
 %RSD: 0.22 0.22 0.21  
 QC value within specified limits.

1095

=====  
 Element: Pb Seq. No.: 327 AS Loc.: 141 Date: 06/27/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 141, 5 from 146, 15 from 141  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	0.0000	0.0015	0.0032	0.0043	0.0032	07:44:47	Yes
2	-0.8	-0.8	-0.0005	0.0010	0.0031	0.0039	0.0027	07:47:41	Yes

Pb



Mean: -0.7 -0.7 -0.0002  
SD : 0.13 0.13 0.0004  
%RSD: 18.79 18.79 173.22  
QC value within specified limits.

=====  
Element: Pb Seq. No.: 328 AS Loc.: 52 Date: 06/27/2006  
Sample ID: bf62301-ms3  
µL dispensed: 10 from 141, 5 from 146, 15 from 52

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	30.9	30.9	0.0859	0.0874	0.1839	0.0760	0.0550	07:50:31	Yes
2	30.6	30.6	0.0852	0.0866	0.1572	0.0945	0.0459	07:53:21	Yes

Method Name: Sb 5  
 Method Description: Sb 5  
 Element: Sb

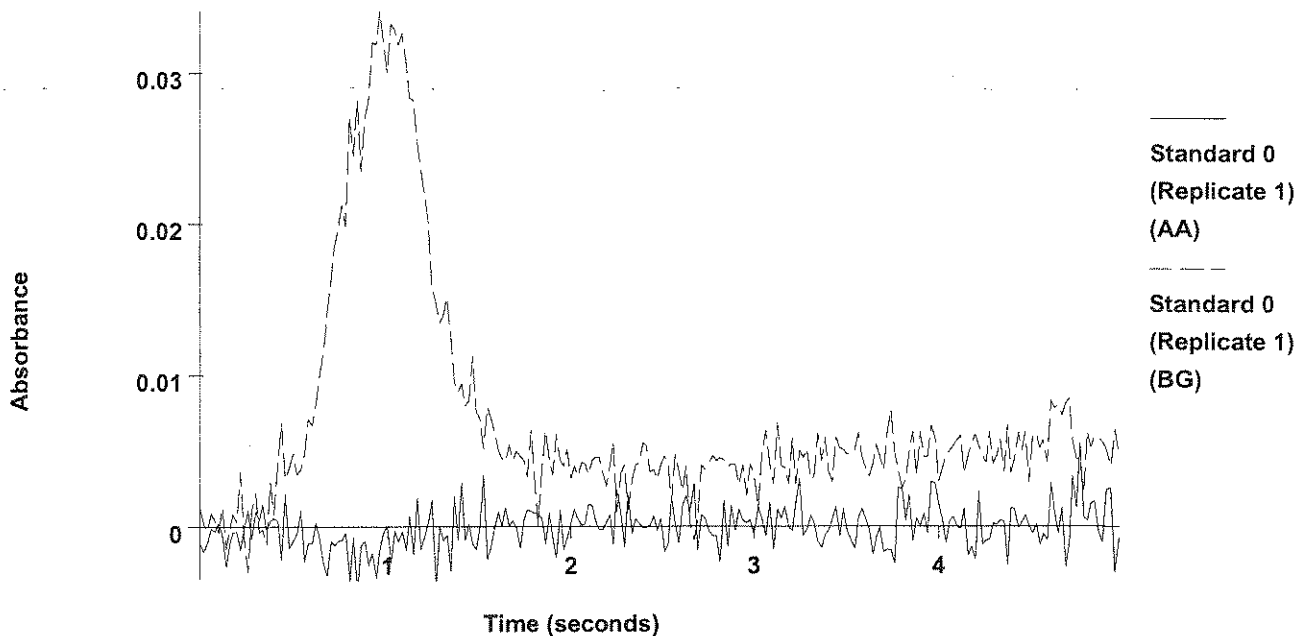
Date: 06/28/2006  
 Technique: Furnace  
 Calibration Type:  
 Sb, Calc. Intercept : Linear  
 Wavelength: 217.6 nm  
 Energy: 100  
 Slit Width: 0.7  
 Lamp Current: 20 mA  
 Sample Info Name: 062606YA.SIF

Results Data Set Name: 062606yad

Element: Sb Seq. No.: 413 AS Loc.: 148 Date: 06/28/2006  
 Sample ID: Standard 0  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc	StndConc	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			-0.0004	-0.0004	0.0055	0.0354	0.0341	04:02:18	Yes

**Sb**



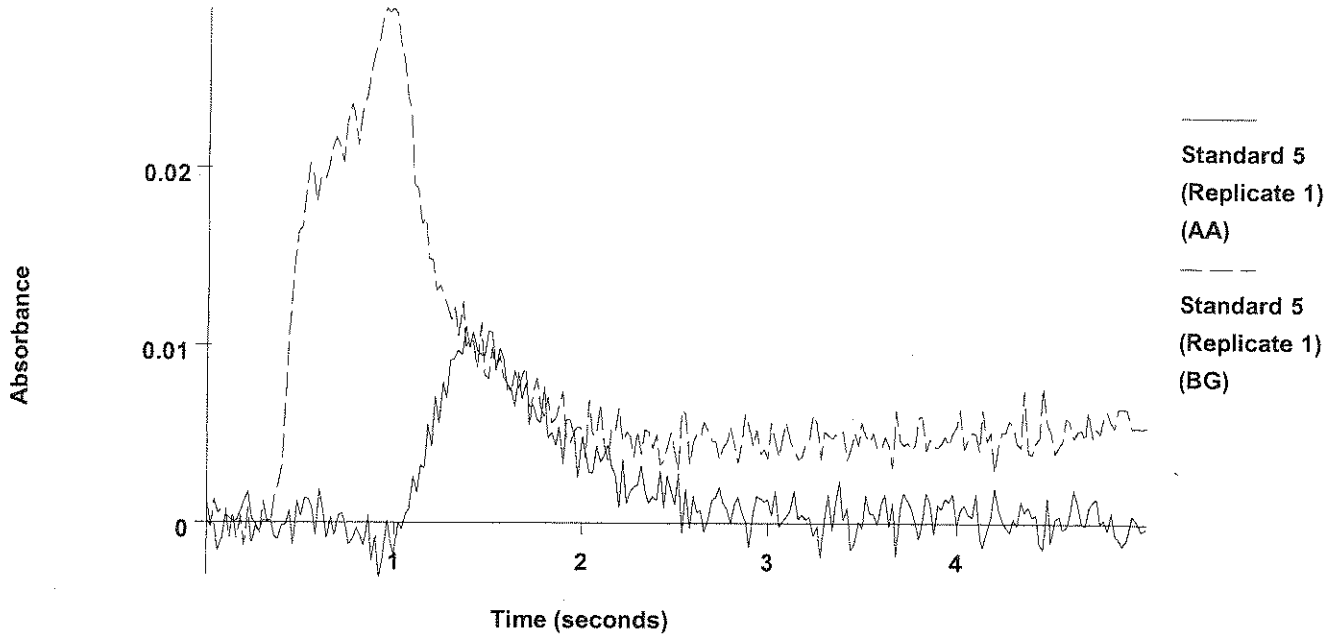
2			-0.0003	-0.0003	0.0043	0.0336	0.0333	04:05:08	Yes
Mean:			-0.0004						
SD :			0.0000						
%RSD:			9.27						

Auto-zero performed.

Element: Sb Seq. No.: 414 AS Loc.: 121 Date: 06/28/2006  
 Sample ID: Standard 5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 121

Repl #	SampleConc	StndConc	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0089	0.0086	0.0111	0.0385	0.0290	04:08:23	Yes

Sb

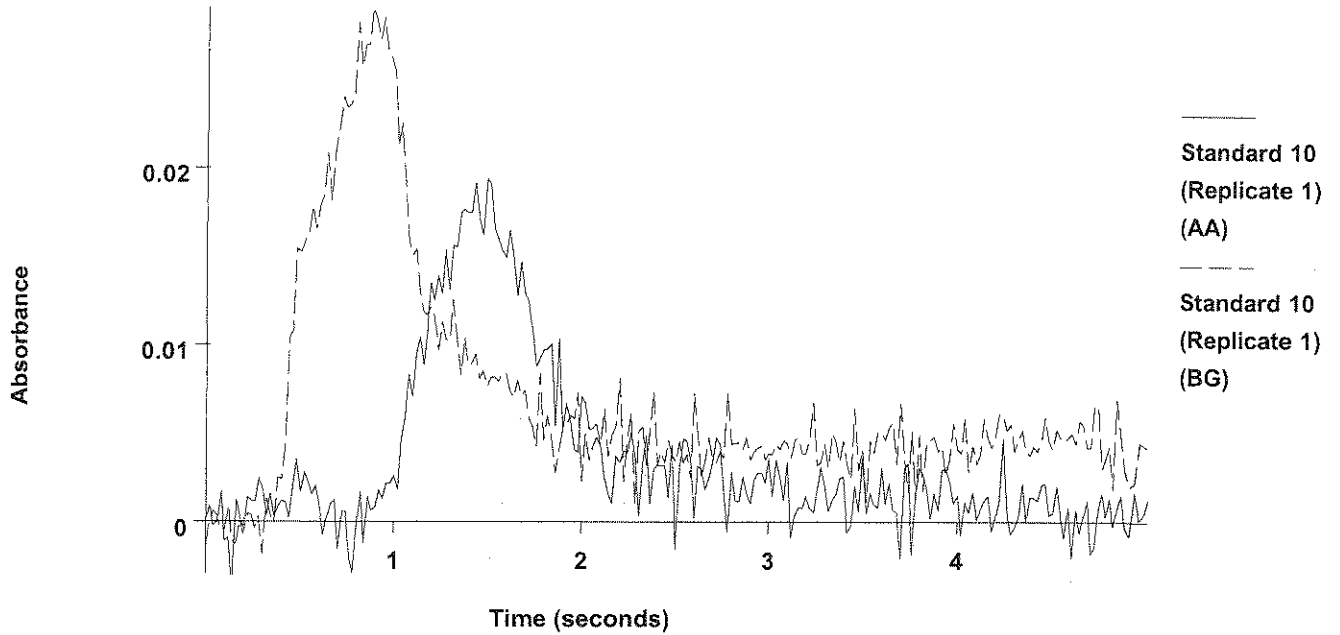


2 0.0088 0.0085 0.0132 0.0342 0.0281 04:11:13 Yes  
 Mean: 0.0089  
 SD : 0.0001  
 %RSD: 1.00  
 [Sb] Standard number 1 applied. [5.0]  
 Correlation Coefficient: 1.00000 Slope: 0.00178  
 Intercept : 0.00000

=====  
 Element: Sb Seq. No.: 415 AS Loc.: 124 Date: 06/28/2006  
 Sample ID: Standard 10  
 µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0180	0.0176	0.0194	0.0349	0.0290	04:14:31	Yes

Sb

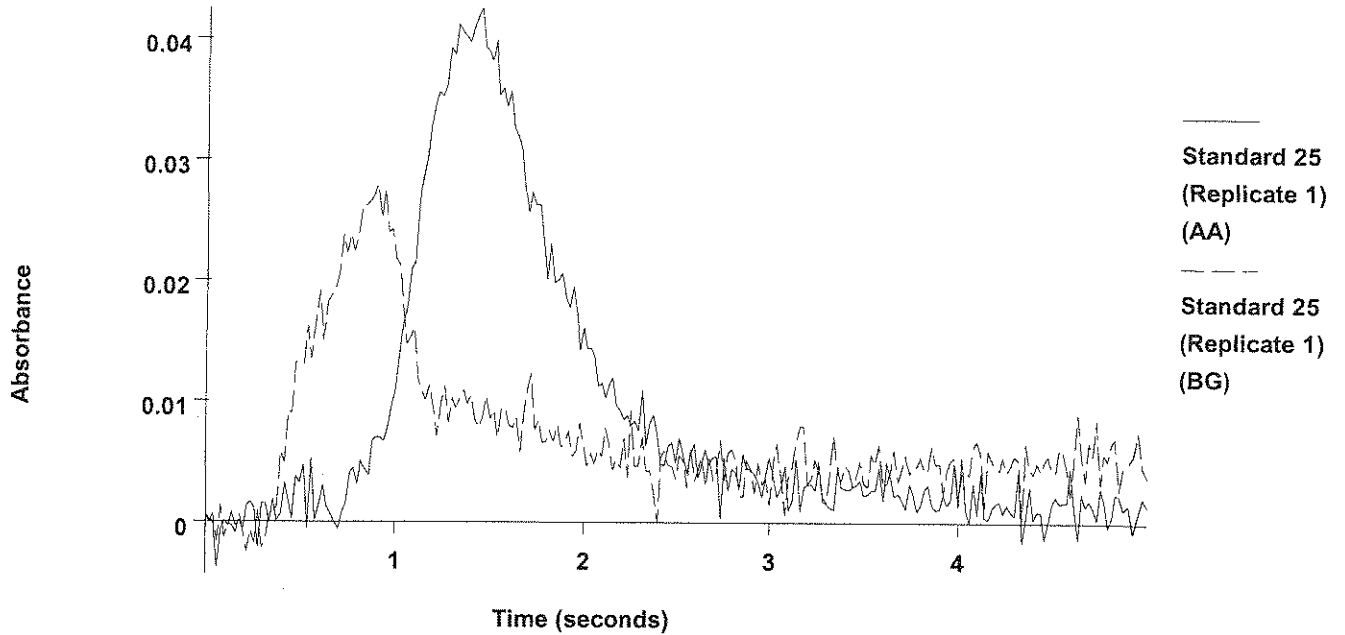


2 0.0173 0.0169 0.0193 0.0347 0.0287 04:17:23 Yes  
 Mean: 0.0176  
 SD : 0.0005  
 %RSD: 2.88  
 [Sb] Standard number 2 applied. [10.0]  
 Correlation Coefficient: 0.99999 Slope: 0.00176  
 Intercept : 0.00002

=====  
 Element: Sb Seq. No.: 416 AS Loc.: 126 Date: 06/28/2006  
 Sample ID: Standard 25  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0428	0.0424	0.0425	0.0353	0.0279	04:20:42	Yes

Sb



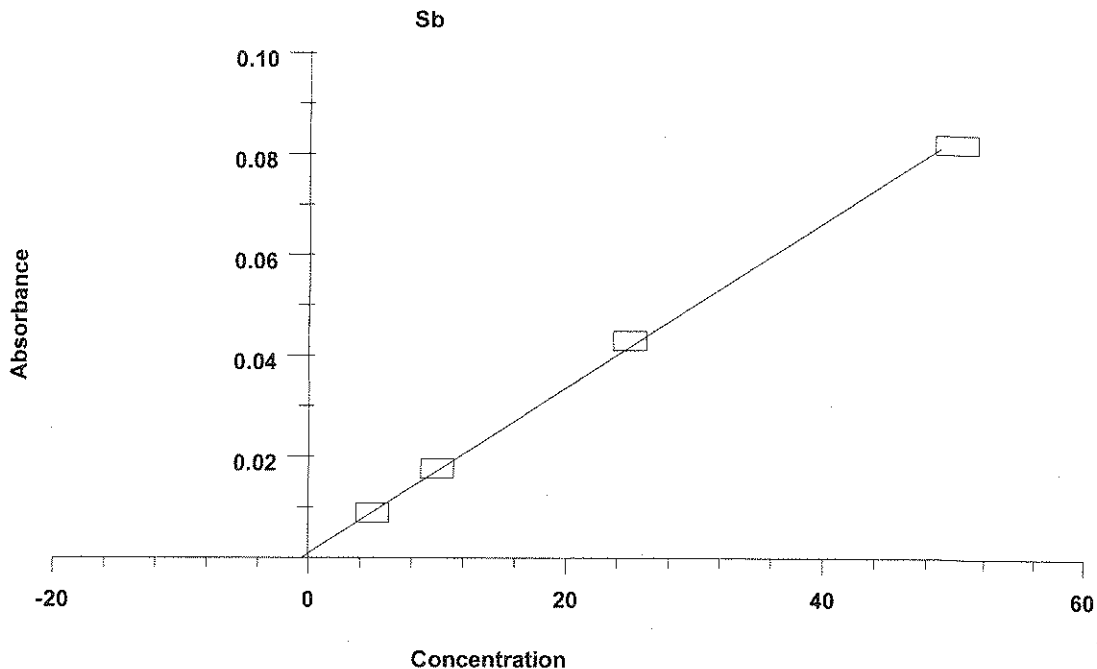
2                                    -0.0431    0.0428    -0.0398    0.0401    0.0312    04:23:35    Yes  
 Mean:                                    0.0430  
 SD :                                        0.0002  
 %RSD:                                    0.54  
 [Sb] Standard number 3 applied. [25.0]  
 Correlation Coefficient: 0.99993                                    Slope: 0.00171  
 Intercept : 0.00022

=====  
 Element: Sb    Seq. No.: 417    AS Loc.: 129    Date: 06/28/2006  
 Sample ID: Standard 50  
 µL dispensed: 10 from 148, 5 from 147, 15 from 129

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0795	0.0792	0.0862	0.0389	0.0287	04:26:53	Yes

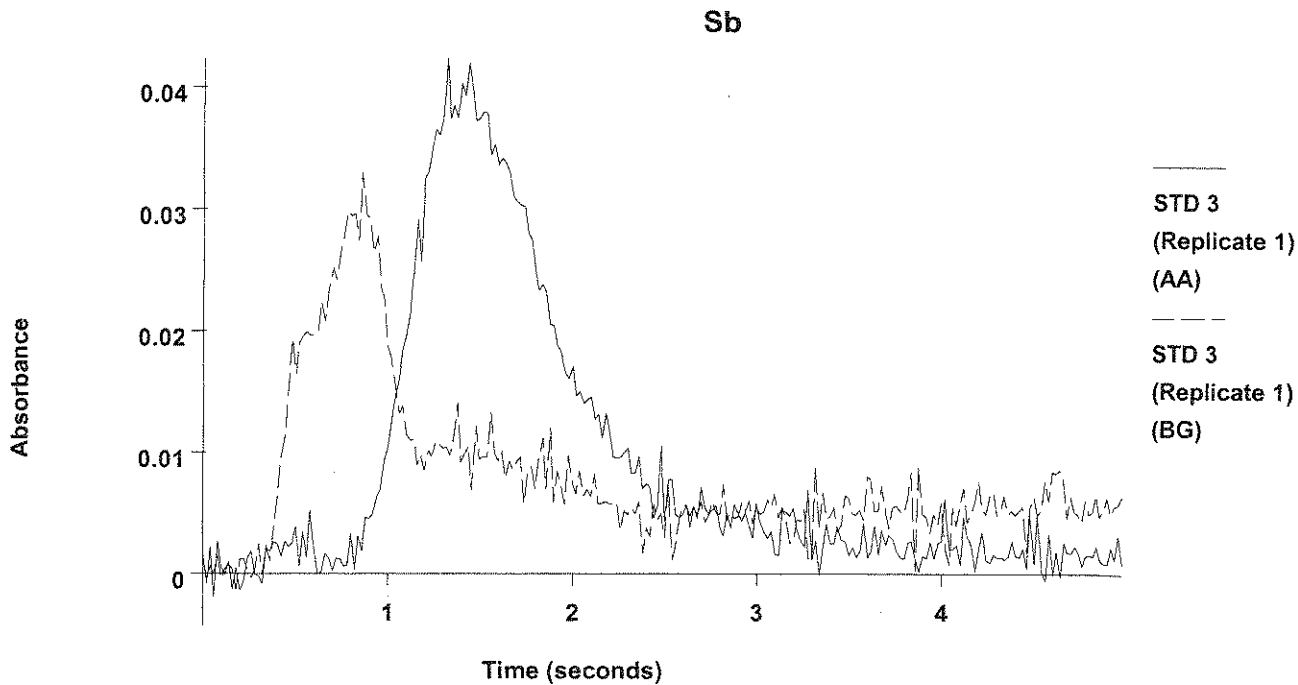






=====  
 Element: Sb    Seq. No.: 418    AS Loc.: 126    Date: 06/28/2006  
 Sample ID: STD 3  
 μL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc μg/L	StndConc μg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.2	26.2	0.0438	0.0434	0.0424	0.0398	0.0329	04:32:41	Yes



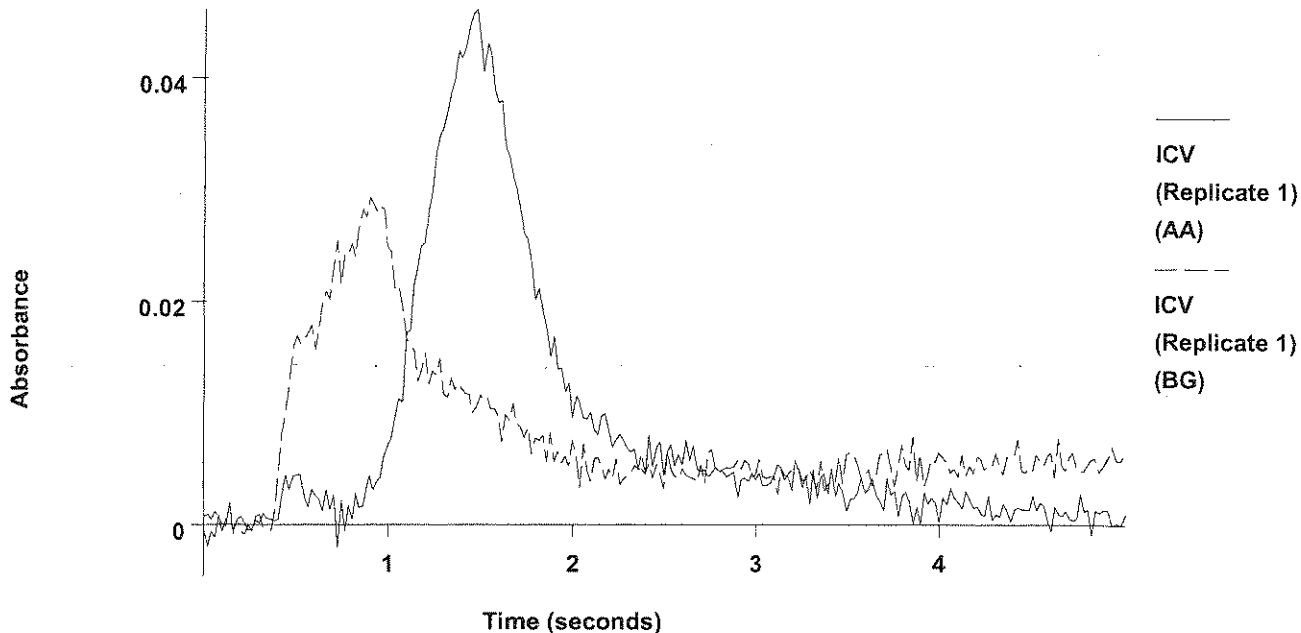
2            25.8            25.8            0.0430            0.0427            0.0429            0.0411            0.0312            04:35:33    Yes

Mean: 26.0 26.0 0.0434  
 SD : 0.33 0.33 0.0005  
 %RSD: 1.29 1.29 1.26  
 QC value within specified limits.

=====  
 Element: Sb Seq. No.: 419 AS Loc.: 134 Date: 06/28/2006  
 Sample ID: ICV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 134  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.4	24.4	0.0407	0.0404	0.0461	0.0397	0.0293	04:38:24	Yes

Sb



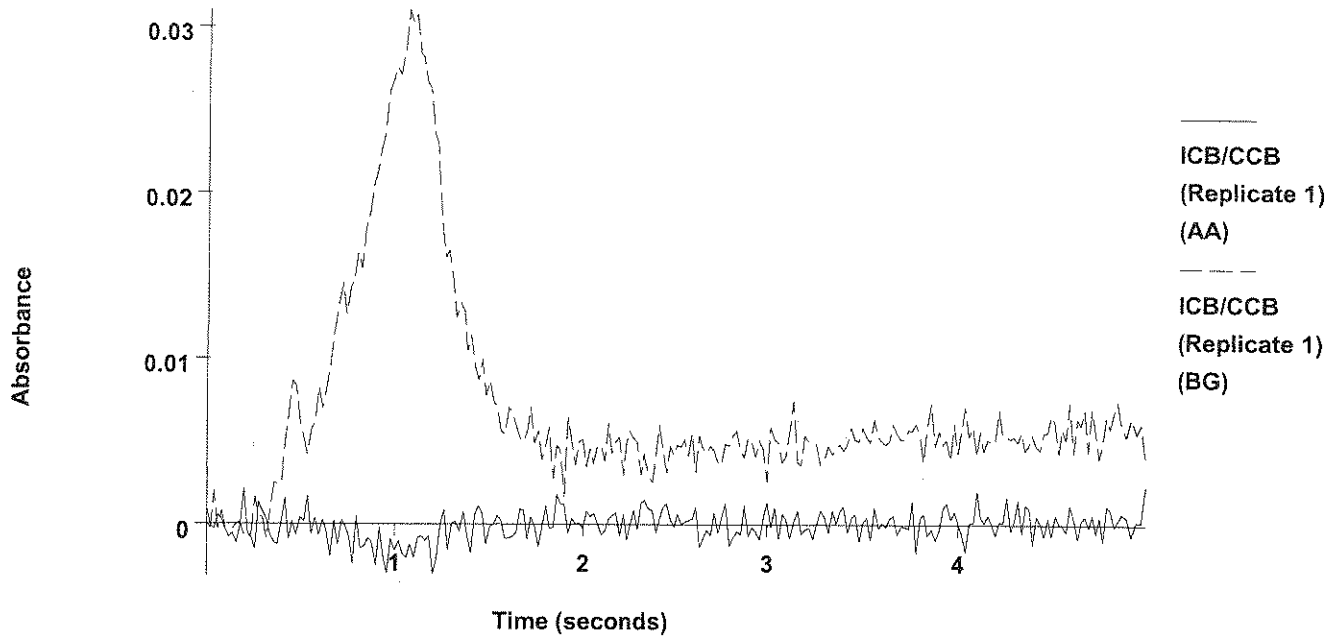
2	24.3	24.3	0.0407	0.0403	0.0479	0.0376	0.0282	04:41:13	Yes
Mean:	24.3	24.3	0.0407						
SD :	0.02	0.02	0.0000						
%RSD:	0.10	0.10	0.09						

QC value within specified limits.

=====  
 Element: Sb Seq. No.: 420 AS Loc.: 148 Date: 06/28/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	0.0001	-0.0003	0.0024	0.0354	0.0310	04:44:02	Yes

Sb



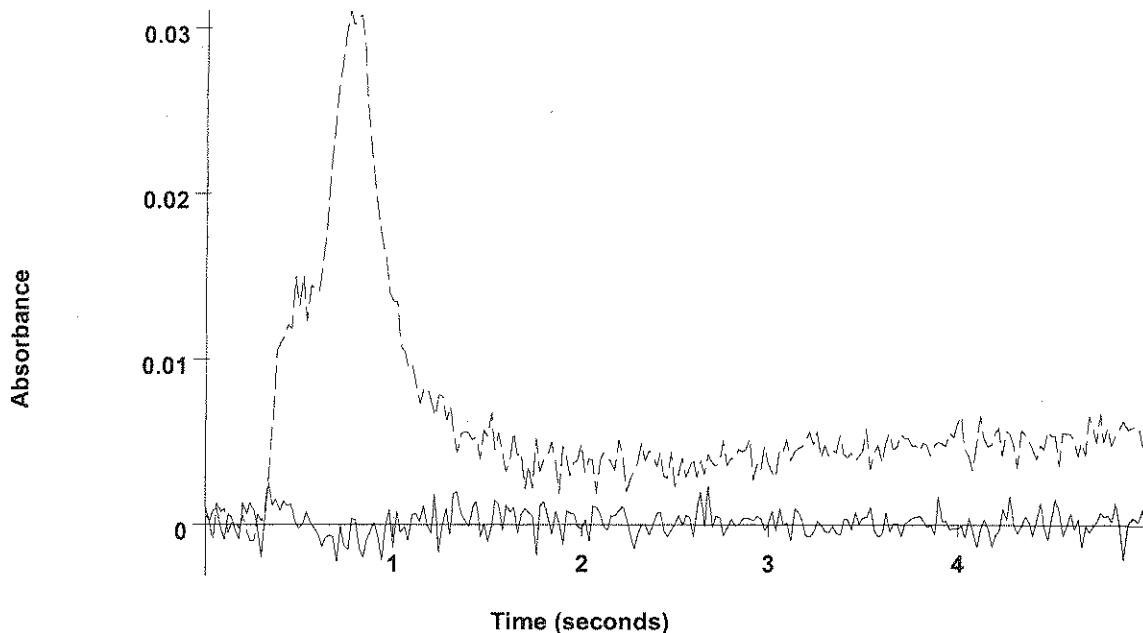
2	-1.1	-1.1	-0.0010	-0.0013	0.0022	0.0308	0.0278	04:46:51	Yes
Mean:	-0.8	-0.8	-0.0004						
SD :	0.44	0.44	0.0007						
%RSD:	56.8	56.8	160.89						

QC value within specified limits.

=====  
 Element: Sb    Seq. No.: 421    AS Loc.: 1    Date: 06/28/2006  
 Sample ID: 0606341-02 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 1  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0010	0.0006	0.0025	0.0318	0.0311	04:49:41	Yes

Sb



0606341-02 dis  
(Replicate 1)  
(AA)

0606341-02 dis  
(Replicate 1)  
(BG)

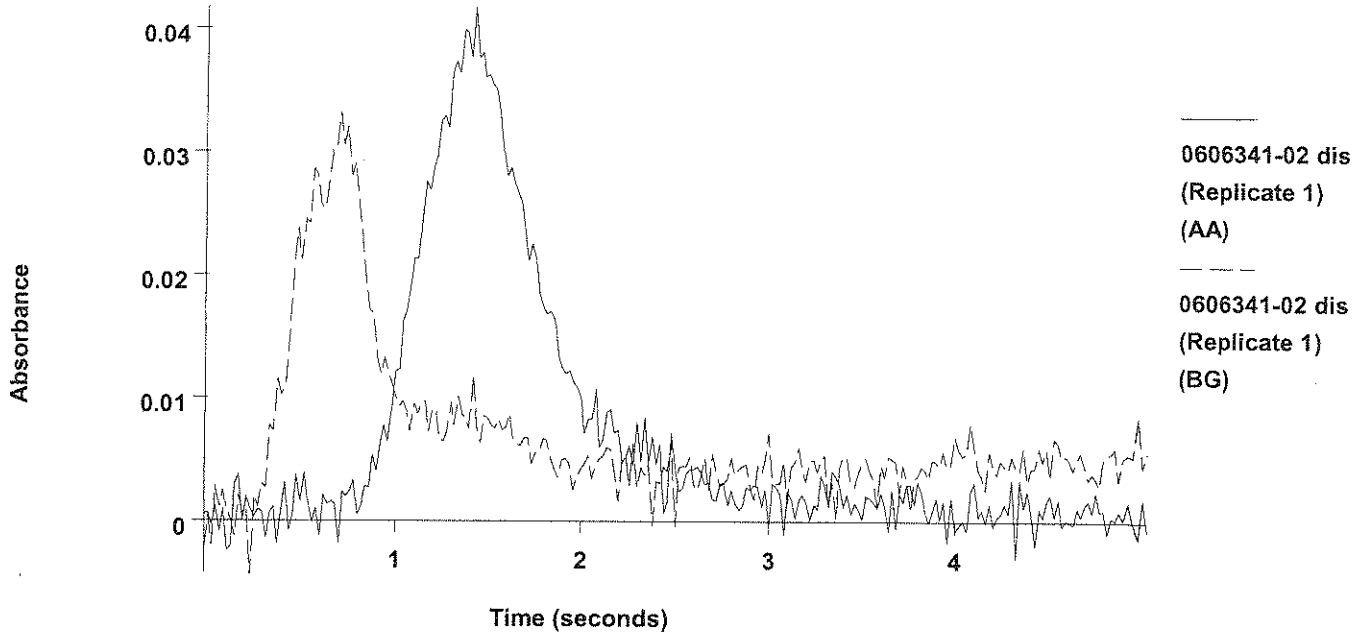
2	0.1	0.1	0.0010	0.0007	0.0045	0.0320	0.0341	04:52:31	Yes
Mean:	0.1	0.1	0.0010						
SD :	0.01	0.01	0.0000						
%RSD:	8.19	8.19	1.47						

*M*

=====  
 Element: Sb    Seq. No.: 422    AS Loc.: 1    Date: 06/28/2006  
 Sample ID: 0606341-02 dis  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 1  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.7	20.7	0.0347	0.0343	0.0417	0.0343	0.0332	04:55:30	Yes

Sb

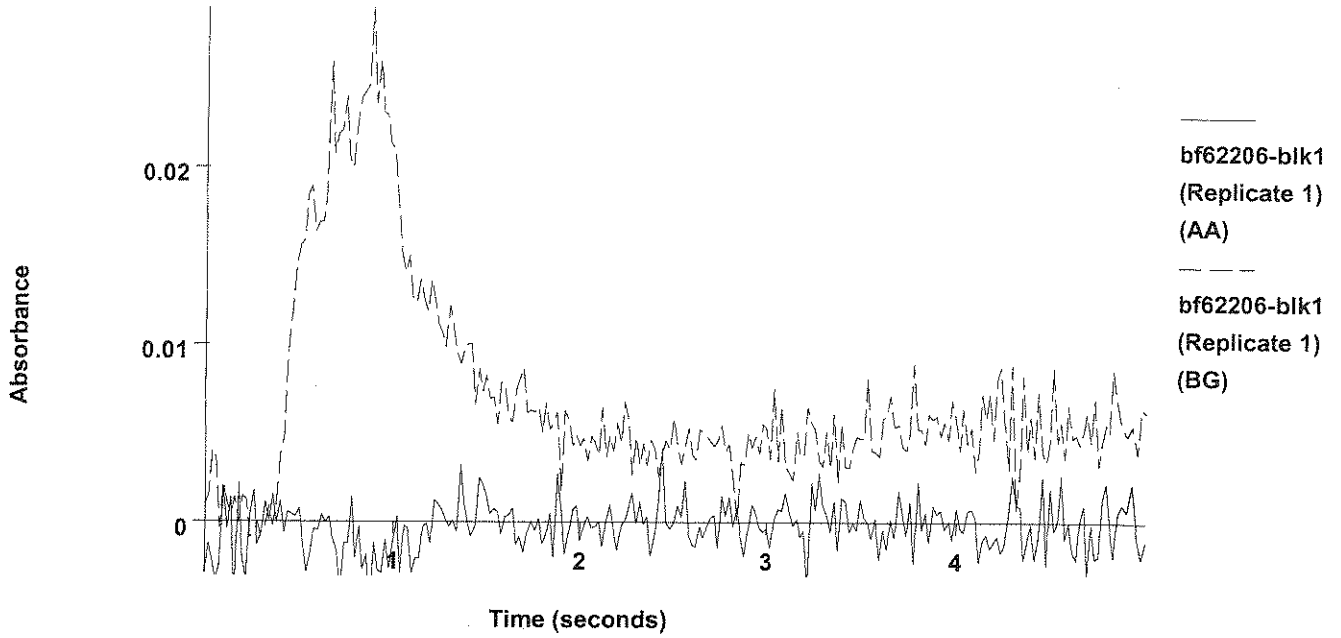


2 19.6 19.6 0.0330 0.0326 0.0367 0.0286 0.0289 04:58:29 Yes  
 Mean: 20.1 20.1 0.0338  
 SD : 0.71 0.71 0.0012  
 %RSD: 3.55 3.55 3.46  
 Recovery for Sb = 100.7 % within 85 % to 115 %

=====  
 Element: Sb Seq. No.: 423 AS Loc.: 2 Date: 06/28/2006  
 Sample ID: bf62206-blk1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 2  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-1.0	-1.0	-0.0008	-0.0012	0.0042	0.0356	0.0290	05:01:20	Yes

Sb



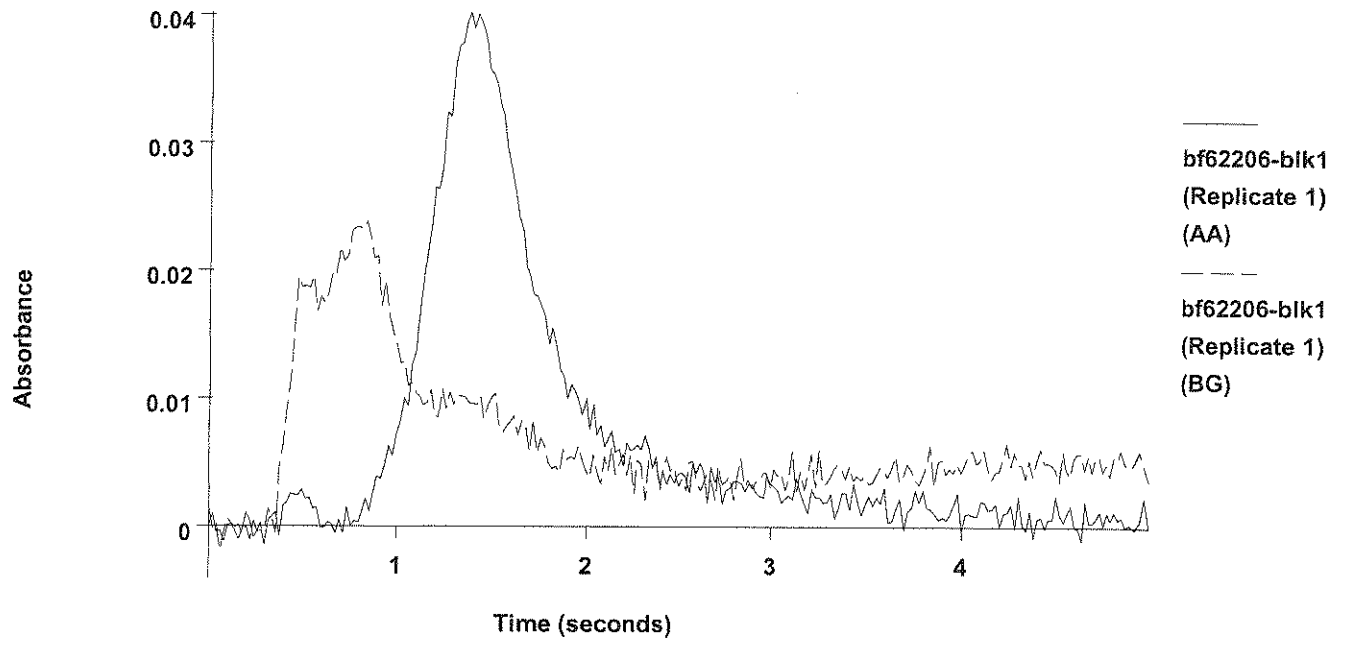
2	-0.9	-0.9	-0.0006	-0.0010	0.0044	0.0381	0.0272	05:04:10	Yes
Mean:	-0.9	-0.9	-0.0007						
SD :	0.10	0.10	0.0002						
%RSD:	10.7	10.7	22.81						

*Handwritten signature*

=====  
 Element: Sb    Seq. No.: 424    AS Loc.: 2    Date: 06/28/2006  
 Sample ID: bf62206-blk1  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 2  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.1	19.1	0.0321	0.0317	0.0402	0.0330	0.0238	05:07:08	Yes

Sb



2 - 18.9 18.9 0.0318 0.0314 0.0405 0.0338 0.0256 05:10:07 Yes  
 Mean: 19.0 19.0 0.0319  
 SD : 0.14 0.14 0.0002  
 %RSD: 0.73 0.73 0.71  
 Recovery for Sb = 95.0 % within 85 % to 115 %

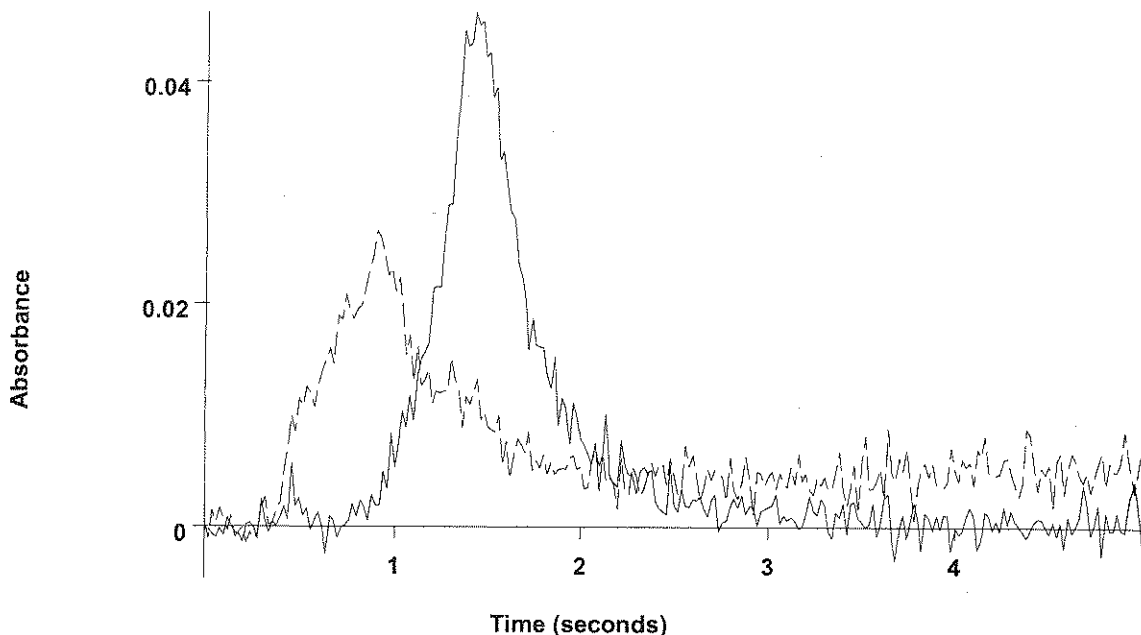


=====  
 Element: Sb Seq. No.: 425 AS Loc.: 3 Date: 06/28/2006  
 Sample ID: bf62206-bs2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 3

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	17.3	17.3	0.0292	0.0288	0.0462	0.0343	0.0265	05:12:57	Yes



Sb



bf62206-bs2  
(Replicate 1)  
(AA)

bf62206-bs2  
(Replicate 1)  
(BG)

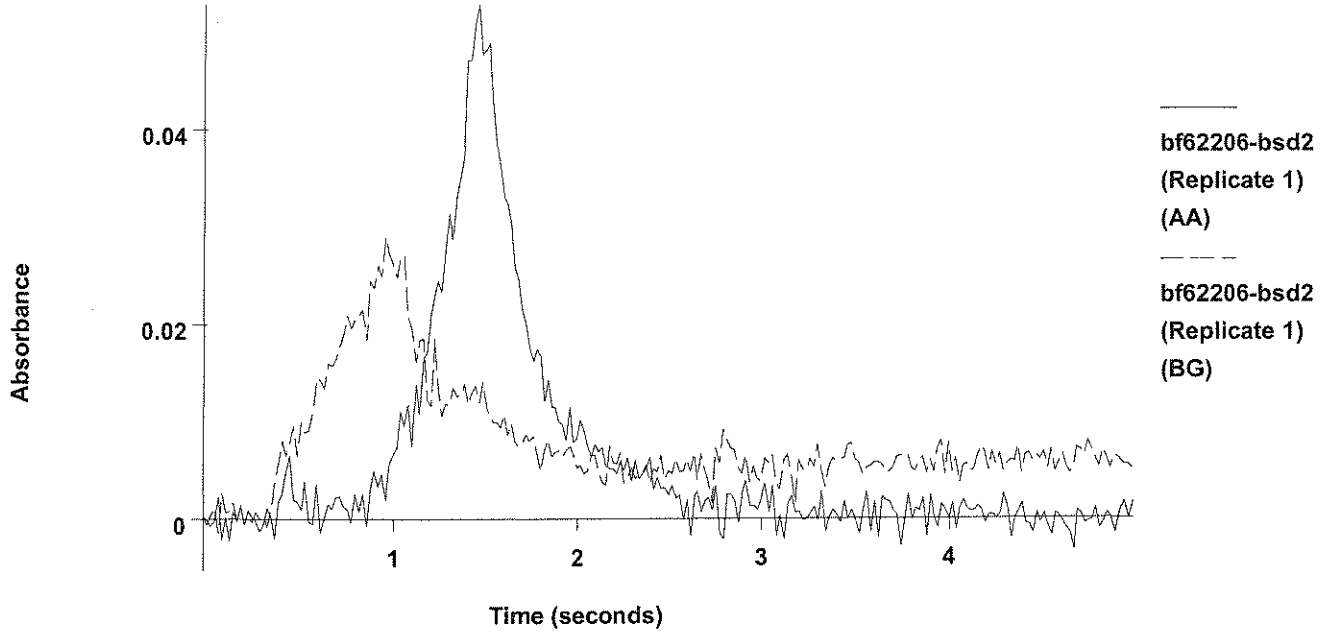
2	18.5	18.5	0.0312	0.0308	0.0504	0.0365	0.0263	05:15:48	Yes
Mean:	17.9	17.9	0.0302						
SD :	0.87	0.87	0.0014						
%RSD:	4.87	4.87	4.74						

905

=====  
 Element: Sb    Seq. No.: 426    AS Loc.: 4    Date: 06/28/2006  
 Sample ID: bf62206-bsd2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 4  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	17.8	17.8	0.0301	0.0297	0.0528	0.0390	0.0290	05:18:38	Yes

Sb



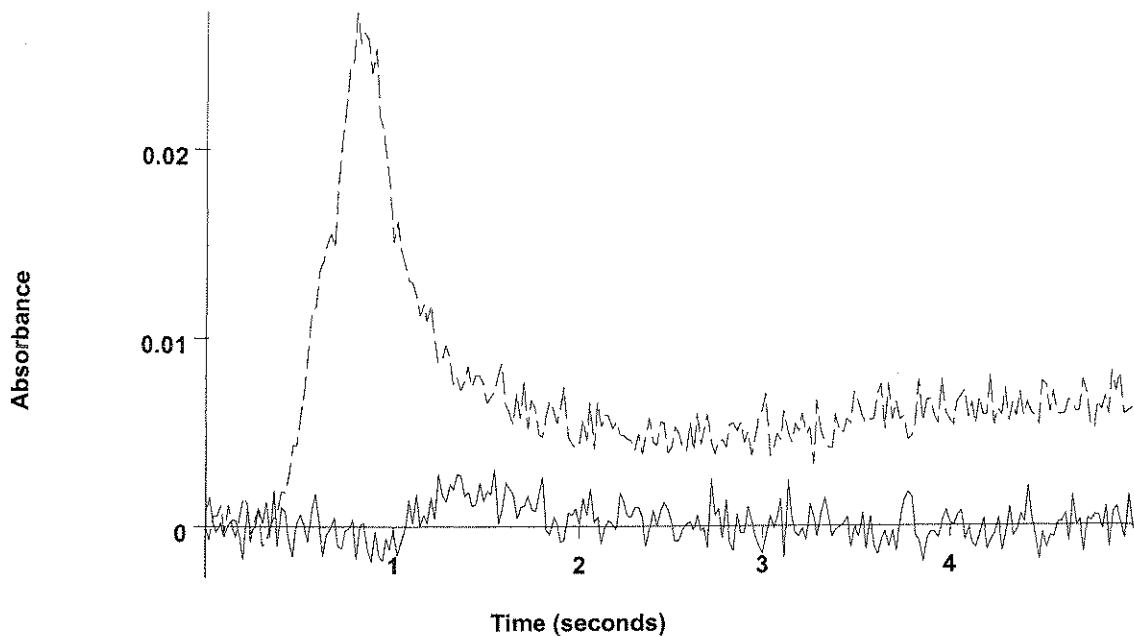
2	18.4	18.4	0.0310	0.0306	0.0549	0.0348	0.0267	05:21:29	Yes
Mean:	18.1	18.1	0.0305						
SD :	0.39	0.39	0.0006						
%RSD:	2.14	2.14	2.08						

915

=====  
 Element: Sb    Seq. No.: 427    AS Loc.: 5    Date: 06/28/2006  
 Sample ID: 0606346-01  
 µL dispensed: 10 from 148, 5 from 147, 15 from 5  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.3	0.3	0.0014	0.0010	0.0030	0.0349	0.0273	05:24:19	Yes

Sb



0606346-01  
 (Replicate 1)  
 (AA)

0606346-01  
 (Replicate 1)  
 (BG)

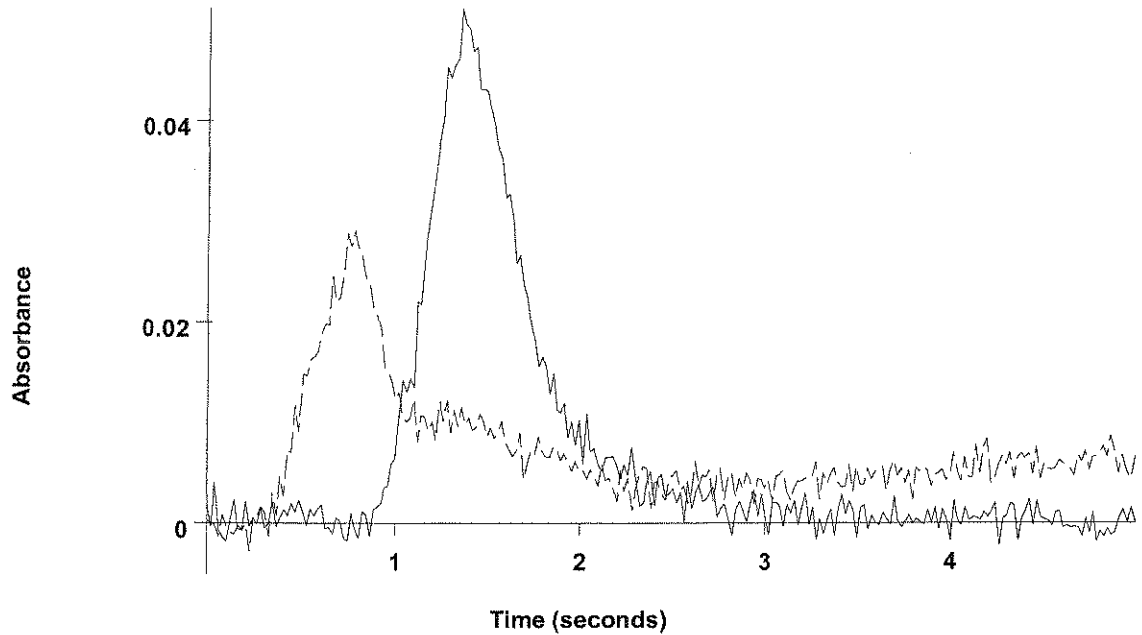
2	-0.2	-0.2	0.0005	0.0002	0.0033	0.0352	0.0273	05:27:09	Yes
Mean:	0.1	0.1	0.0010						
SD :	0.36	0.36	0.0006						
%RSD:	417	417	61.90						

*Handwritten mark resembling a stylized 'W' or 'U'.*

=====  
 Element: Sb    Seq. No.: 428    AS Loc.: 5    Date: 06/28/2006  
 Sample ID: 0606346-01  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 5  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.0	20.0	0.0336	0.0332	0.0511	0.0349	0.0291	05:30:08	Yes

Sb



0606346-01  
 (Replicate 1)  
 (AA)  
 -----  
 0606346-01  
 (Replicate 1)  
 (BG)

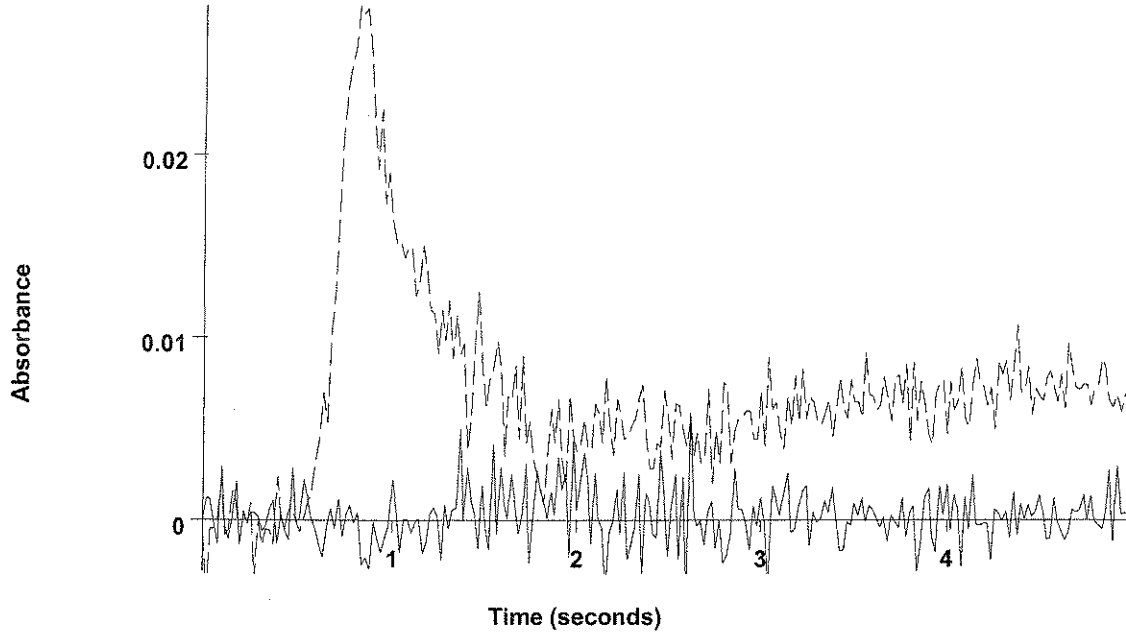
2	20.6	20.6	0.0345	0.0342	0.0512	0.0397	0.0345	05:33:08	Yes
Mean:	20.3	20.3	0.0340						
SD :	0.42	0.42	0.0007						
%RSD:	2.06	2.06	2.01						

Recovery for Sb = 101.4 % within 85 % to 115 %

=====  
 Element: Sb    Seq. No.: 429    AS Loc.: 6    Date: 06/28/2006  
 Sample ID: bf62206-dup1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 6  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	0.0016	0.0012	0.0059	0.0344	0.0281	05:35:59	Yes

Sb



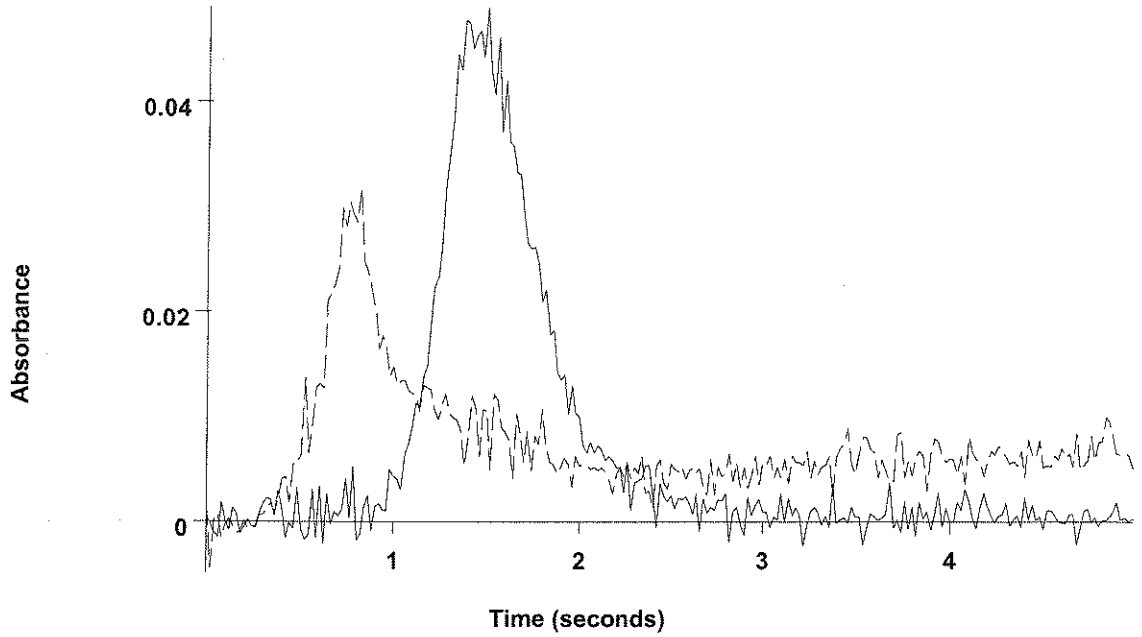
-----  
 bf62206-dup1  
 (Replicate 1)  
 (AA)  
 -----  
 bf62206-dup1  
 (Replicate 1)  
 (BG)

2	0.1	0.1	0.0010	0.0006	0.0042	0.0332	0.0309	05:38:49	Yes
Mean:	0.3	0.3	0.0013						
SD :	0.26	0.26	0.0004						
%RSD:	91.0	91.0	32.76						

=====  
 Element: Sb    Seq. No.: 430    AS Loc.: 7    Date: 06/28/2006  
 Sample ID: bf62206-ms3  
 µL dispensed: 10 from 148, 5 from 147, 15 from 7  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.0	19.0	0.0319	0.0316	0.0490	0.0363	0.0319	05:41:39	Yes

Sb



bf62206-ms3  
(Replicate 1)  
(AA)  
bf62206-ms3  
(Replicate 1)  
(BG)

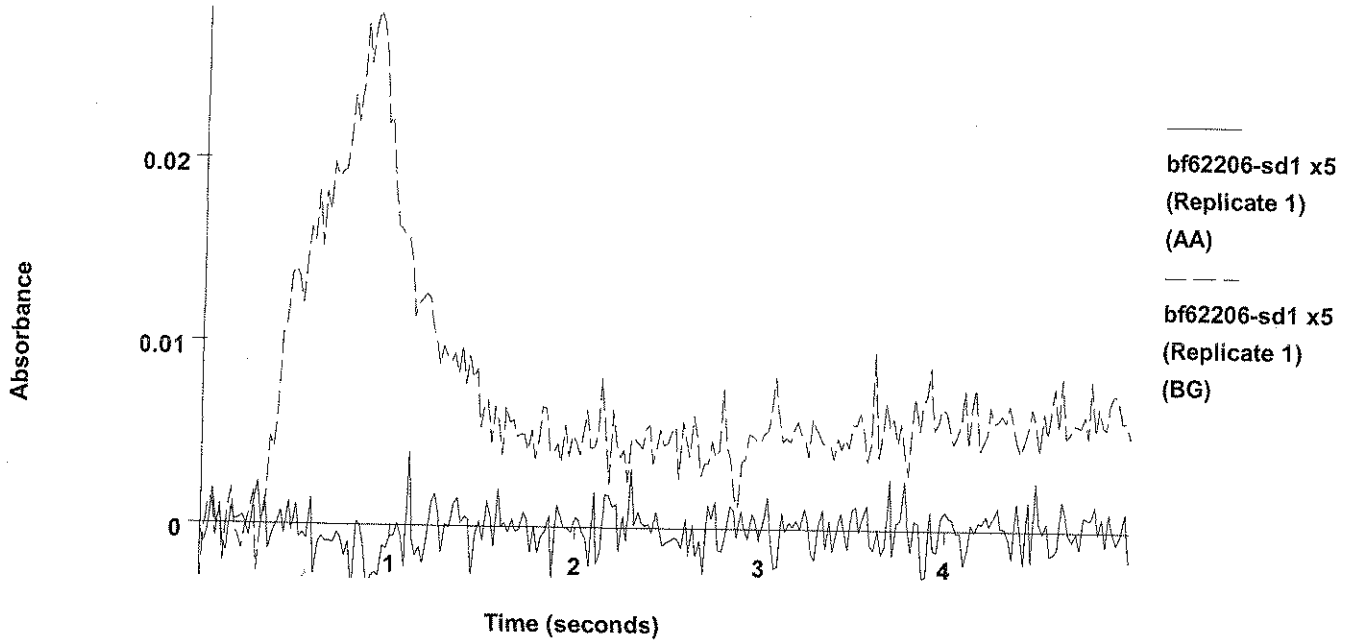
2	18.4	18.4	0.0309	0.0306	0.0348	0.0367	0.0262	05:44:30	Yes
Mean:	18.7	18.7	0.0314						
SD :	0.43	0.43	0.0007						
%RSD:	2.30	2.30	2.24						

945

=====  
Element: Sb    Seq. No.: 431    AS Loc.: 8    Date: 06/28/2006  
Sample ID: bf62206-sd1 x5  
µL dispensed: 10 from 148, 5 from 147, 15 from 8  
=====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	-0.0002	-0.0005	0.0040	0.0359	0.0281	05:47:21	Yes

Sb



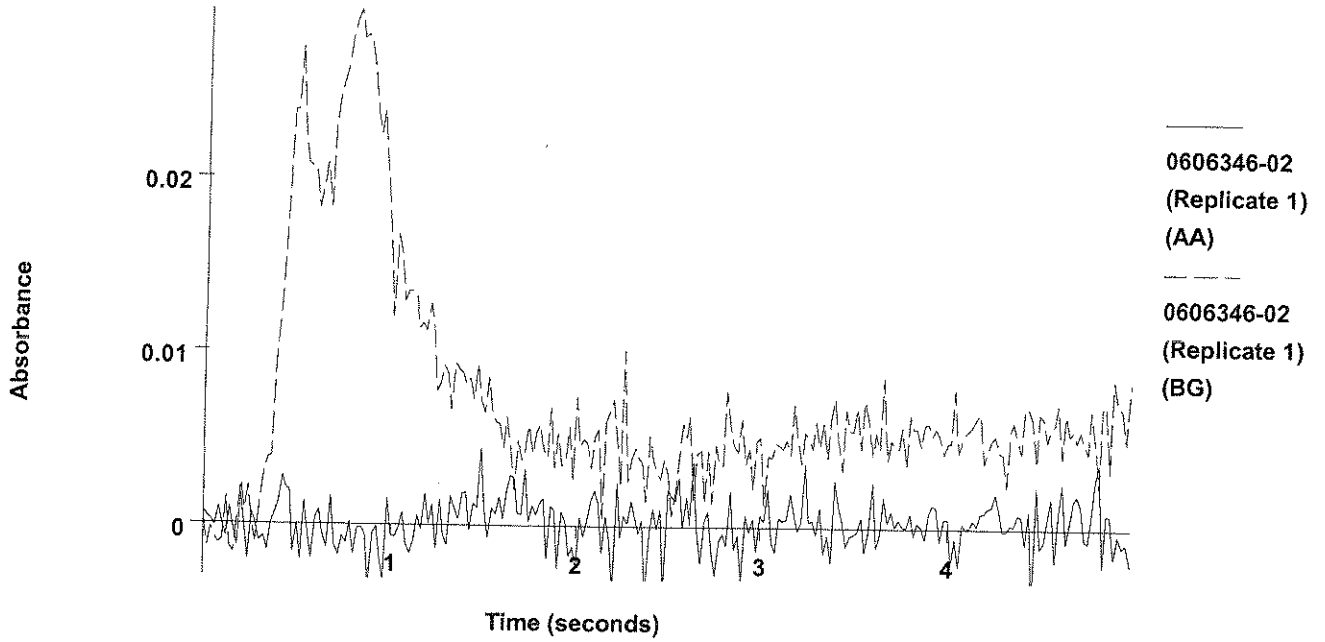
2	-0.1	-0.1	0.0007	0.0004	0.0035	0.0356	0.0277	05:50:11	Yes
Mean:	-0.3	-0.3	0.0003						
SD :	0.39	0.39	0.0006						
%RSD:	116	116	238.41						

*Handwritten signature*

=====  
 Element: Sb    Seq. No.: 432    AS Loc.: 9    Date: 06/28/2006  
 Sample ID: 0606346-02  
 µL dispensed: 10 from 148, 5 from 147, 15 from 9

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0012	0.0008	0.0045	0.0371	0.0296	05:53:02	Yes

Sb



2	-1.3	-1.3	-0.0012	-0.0016	0.0040	0.0386	0.0305	05:55:52	Yes
Mean:	-0.5	-0.5	0.0000						
SD :	1.05	1.05	0.0017						
%RSD:	206	206	10381.39						

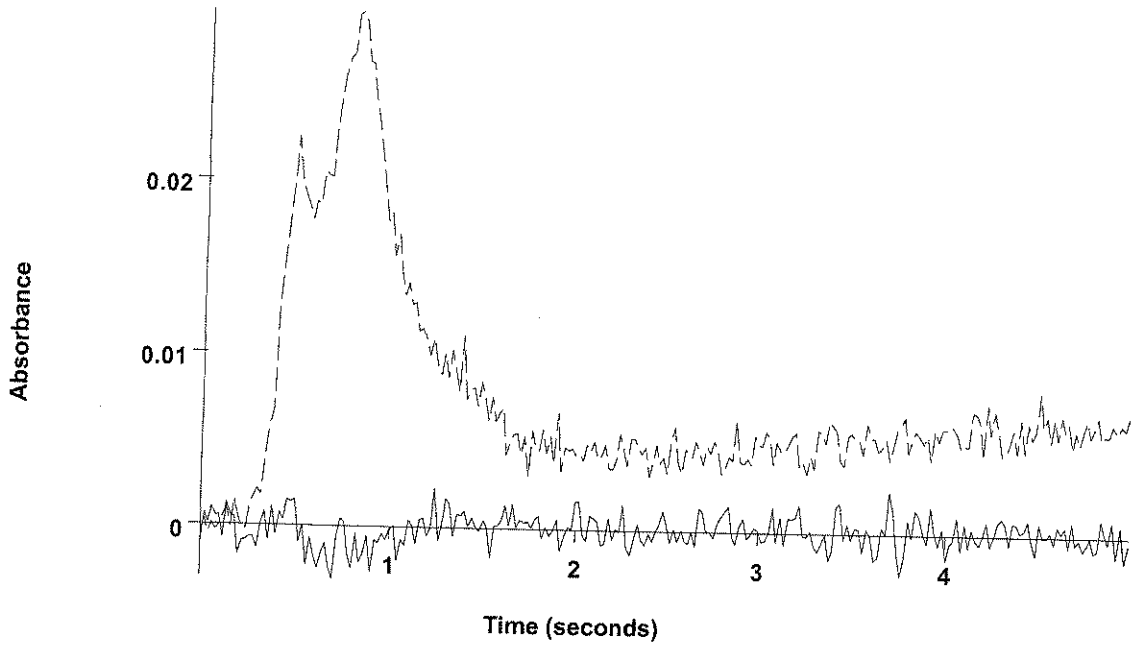
*Handwritten signature*

=====  
 Element: Sb    Seq. No.: 433    AS Loc.: 10    Date: 06/28/2006  
 Sample ID: 0606346-03  
 µL dispensed: 10 from 148, 5 from 147, 15 from 10  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	0.0001	-0.0002	0.0025	0.0376	0.0297	05:58:44	Yes



Sb



0606346-03  
(Replicate 1)  
(AA)  
-----  
0606346-03  
(Replicate 1)  
(BG)

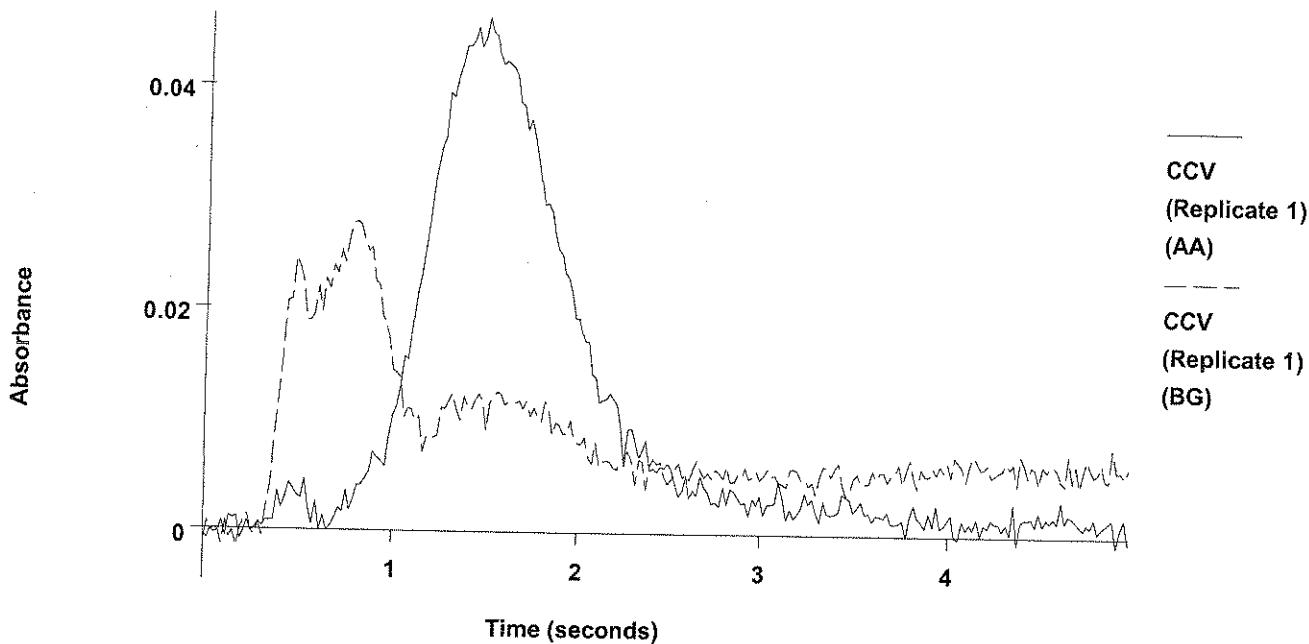
2	-0.4	-0.4	0.0001	-0.0002	0.0029	0.0394	0.0319	06:01:34	Yes
Mean:	-0.4	-0.4	0.0001						
SD :	0.01	0.01	0.0000						
%RSD:	1.70	1.70	9.40						

*Handwritten mark*

=====  
 Element: Sb    Seq. No.: 434    AS Loc.: 126    Date: 06/28/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.4	27.4	0.0456	0.0453	0.0463	0.0418	0.0278	06:04:26	Yes

Sb



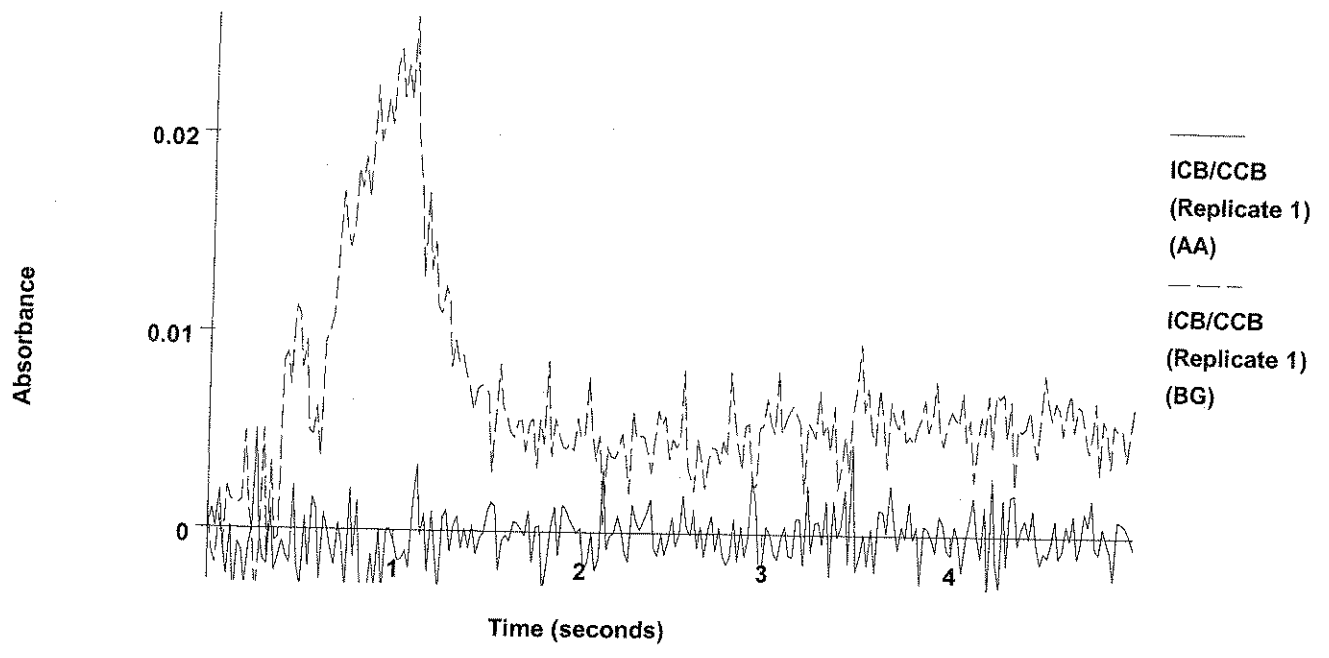
2	27.0	27.0	0.0450	0.0447	0.0438	0.0434	0.0318	06:07:19	Yes
Mean:	27.2	27.2	0.0453						
SD :	0.26	0.26	0.0004						
%RSD:	0.96	0.96	0.94						

QC value within specified limits. ✓

=====  
 Element: Sb    Seq. No.: 435    AS Loc.: 148    Date: 06/28/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.8	-0.8	-0.0005	-0.0009	0.0051	0.0336	0.0260	06:10:10	Yes

Sb



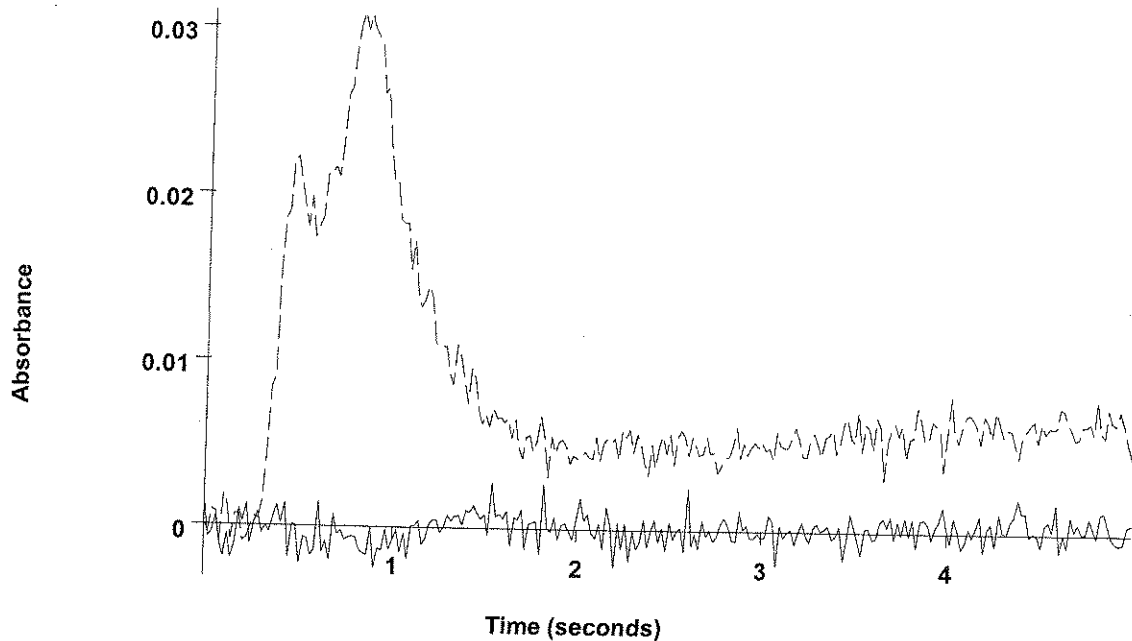
2	-0.4	-0.4	0.0002	-0.0001	0.0034	0.0346	0.0251	06:13:00	Yes
Mean:	-0.6	-0.6	-0.0001						
SD :	0.32	0.32	0.0005						
%RSD:	53.8	53.8	350.01						

QC value within specified limits.

=====  
 Element: Sb    Seq. No.: 436    AS Loc.: 11    Date: 06/28/2006  
 Sample ID: 0606346-05  
 µL dispensed: 10 from 148, 5 from 147, 15 from 11  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	0.0004	0.0000	0.0027	0.0411	0.0309	06:15:50	Yes

Sb



0606346-05  
(Replicate 1)  
(AA)

0606346-05  
(Replicate 1)  
(BG)

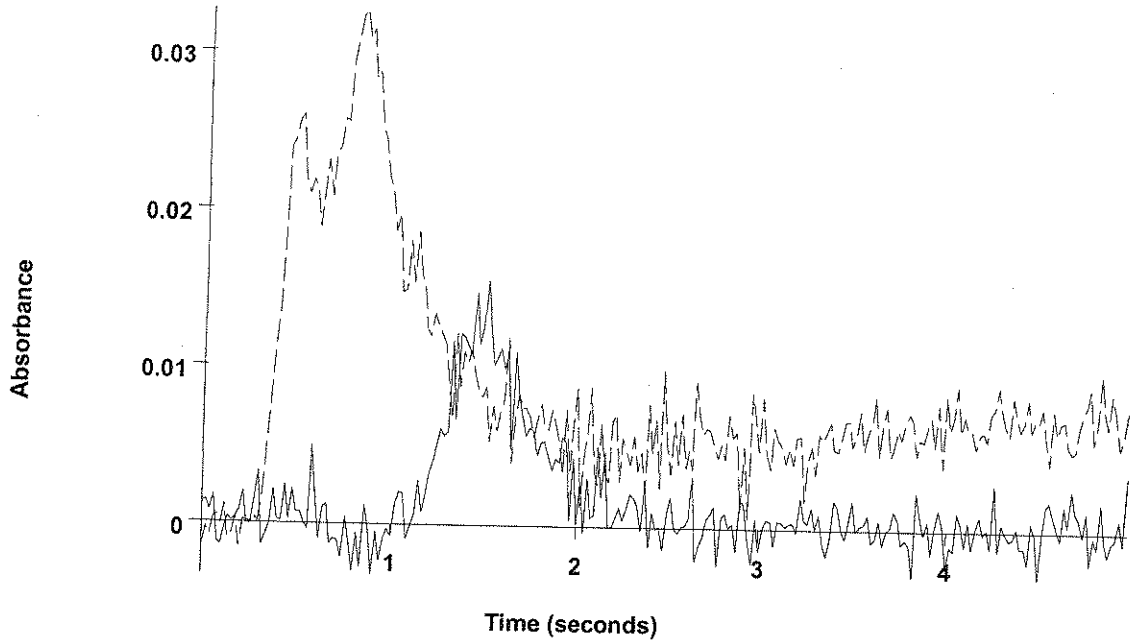
2	-1.2	-1.2	-0.0011	-0.0014	0.0023	0.0408	0.0318	06:18:40	Yes
Mean:	-0.7	-0.7	-0.0003						
SD :	0.63	0.63	0.0010						
%RSD:	89.4	89.4	304.04						

*(Handwritten mark)*

=====  
 Element: Sb    Seq. No.: 437    AS Loc.: 12    Date: 06/28/2006  
 Sample ID: 0606346-06  
 µL dispensed: 10 from 148, 5 from 147, 15 from 12  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.3	4.3	0.0078	0.0075	0.0155	0.0432	0.0327	06:21:29	Yes

Sb



0606346-06  
(Replicate 1)  
(AA)

0606346-06  
(Replicate 1)  
(BG)

2	3.7	3.7	0.0070	0.0066	0.0137	0.0418	0.0315	06:24:19	Yes
Mean:	4.0	4.0	0.0074						
SD :	0.38	0.38	0.0006						
%RSD:	9.37	9.37	8.33						

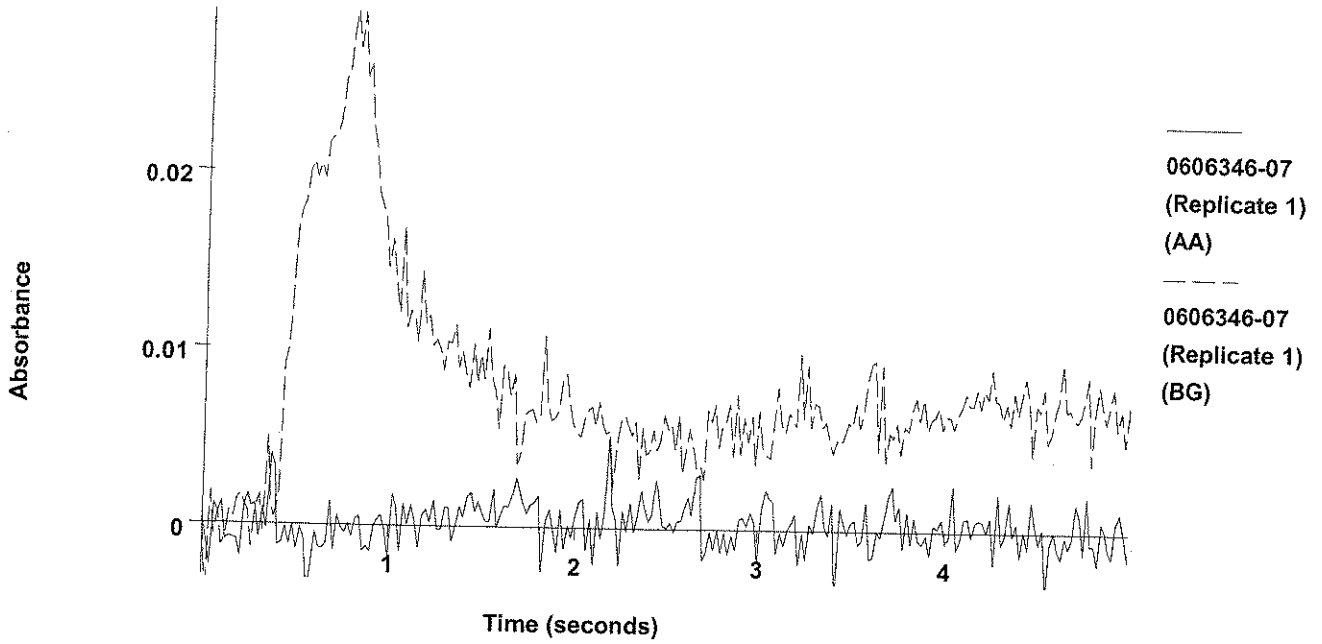
=====  
Element: Sb Seq. No.: 438 AS Loc.: 13 Date: 06/28/2006

Sample ID: 0606346-07

µL dispensed: 10 from 148, 5 from 147, 15 from 13

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.3	0.3	0.0013	0.0009	0.0052	0.0401	0.0291	06:27:09	Yes

Sb



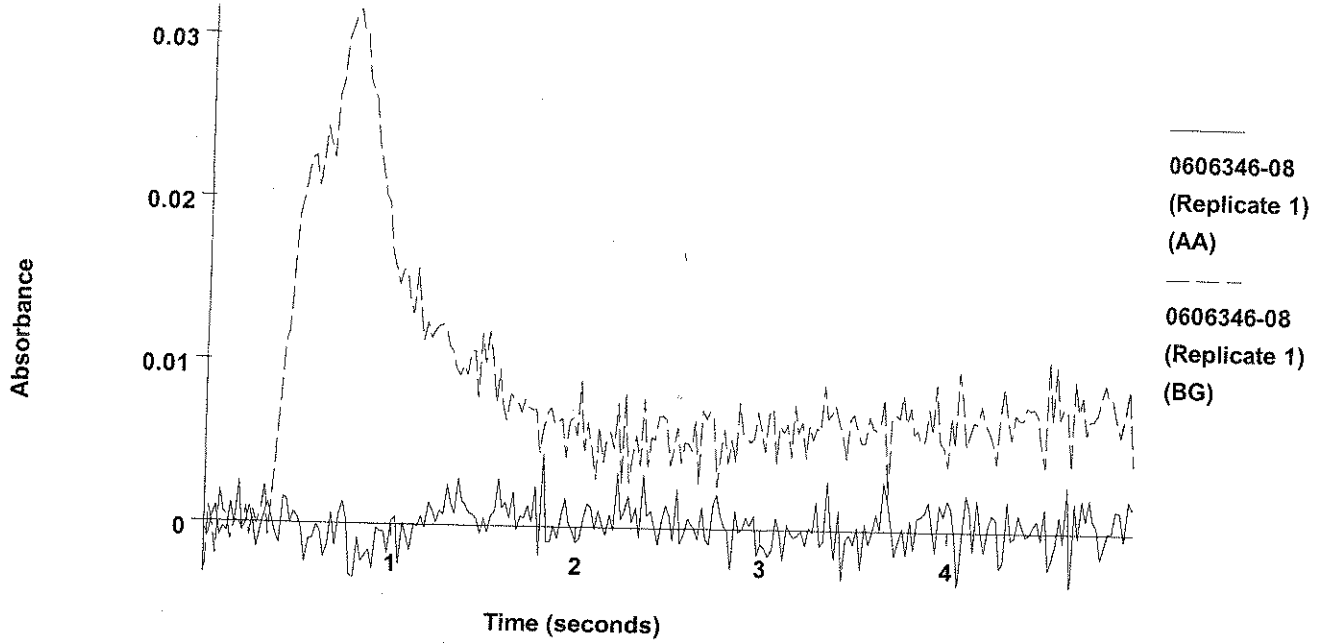
2	0.4	0.4	0.0015	0.0012	0.0048	0.0390	0.0309	06:30:00	Yes
Mean:	0.3	0.3	0.0014						
SD :	0.11	0.11	0.0002						
%RSD:	30.5	30.5	12.48						

*(Handwritten mark)*

=====  
 Element: Sb    Seq. No.: 439    AS Loc.: 14    Date: 06/28/2006  
 Sample ID: 0606346-08  
 µL dispensed: 10 from 148, 5 from 147, 15 from 14  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0012	0.0008	0.0045	0.0425	0.0316	06:32:50	Yes

Sb

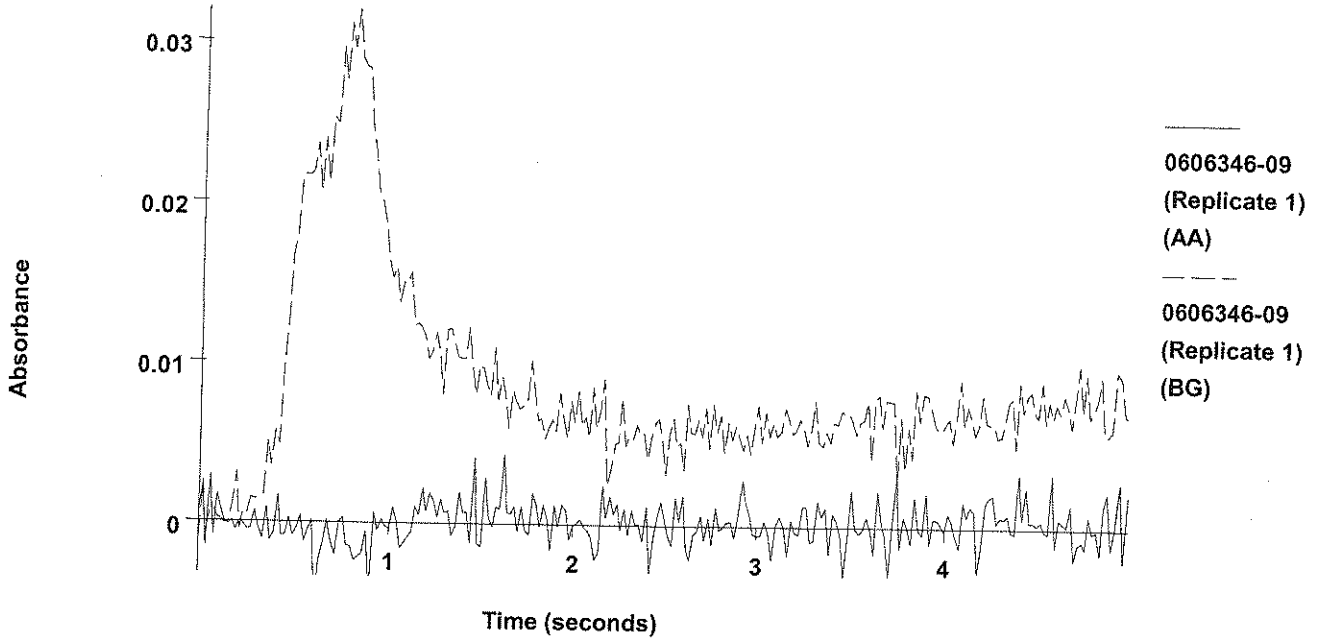


2	0.9	0.9	0.0023	0.0020	0.0036	0.0368	0.0295	06:35:41	Yes
Mean:	0.6	0.6	0.0017						
SD :	0.50	0.50	0.0008						
%RSD:	89.5	89.5	47.25						

=====  
 Element: Sb      Seq. No.: 440      AS Loc.: 15      Date: 06/28/2006  
 Sample ID: 0606346-09  
 µL dispensed: 10 from 148, 5 from 147, 15 from 15  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0009	0.0006	0.0043	0.0430	0.0320	06:38:31	Yes

Sb



2	-0.1	-0.1	0.0007	0.0003	0.0032	0.0390	0.0308	06:41:20	Yes
Mean:	0.0	0.0	0.0008						
SD :	0.11	0.11	0.0002						
%RSD:	2450	2450	21.33						

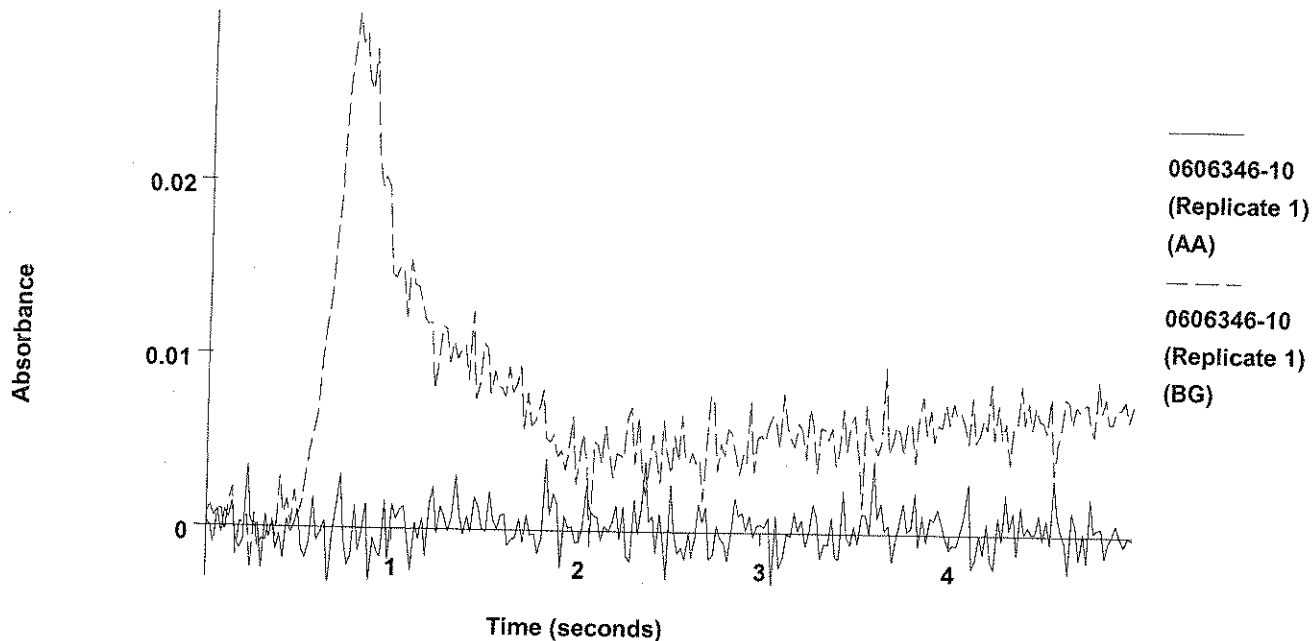
*Handwritten mark*

=====  
 Element: Sb    Seq. No.: 441    AS Loc.: 16    Date: 06/28/2006  
 Sample ID: 0606346-10  
 µL dispensed: 10 from 148, 5 from 147, 15 from 16  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.3	0.3	0.0013	0.0009	0.0042	0.0351	0.0297	06:44:11	Yes



Sb



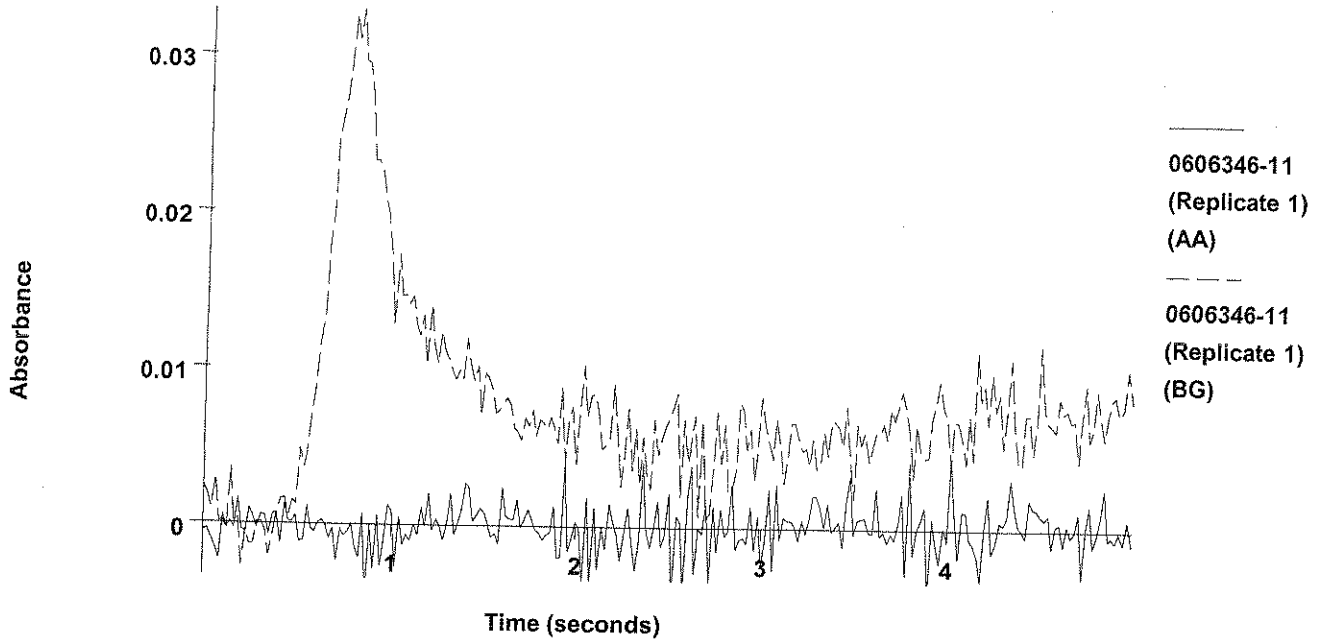
2	-0.3	-0.3	0.0003	-0.0001	0.0048	0.0387	0.0312	06:47:01	Yes
Mean:	0.0	0.0	0.0008						
SD :	0.42	0.42	0.0007						
%RSD:	1840	1840	87.05						

*Handwritten signature*

=====  
 Element: Sb    Seq. No.: 442    AS Loc.: 17    Date: 06/28/2006  
 Sample ID: 0606346-11  
 µL dispensed: 10 from 148, 5 from 147, 15 from 17

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	0.0004	0.0000	0.0047	0.0385	0.0329	06:49:50	Yes

Sb



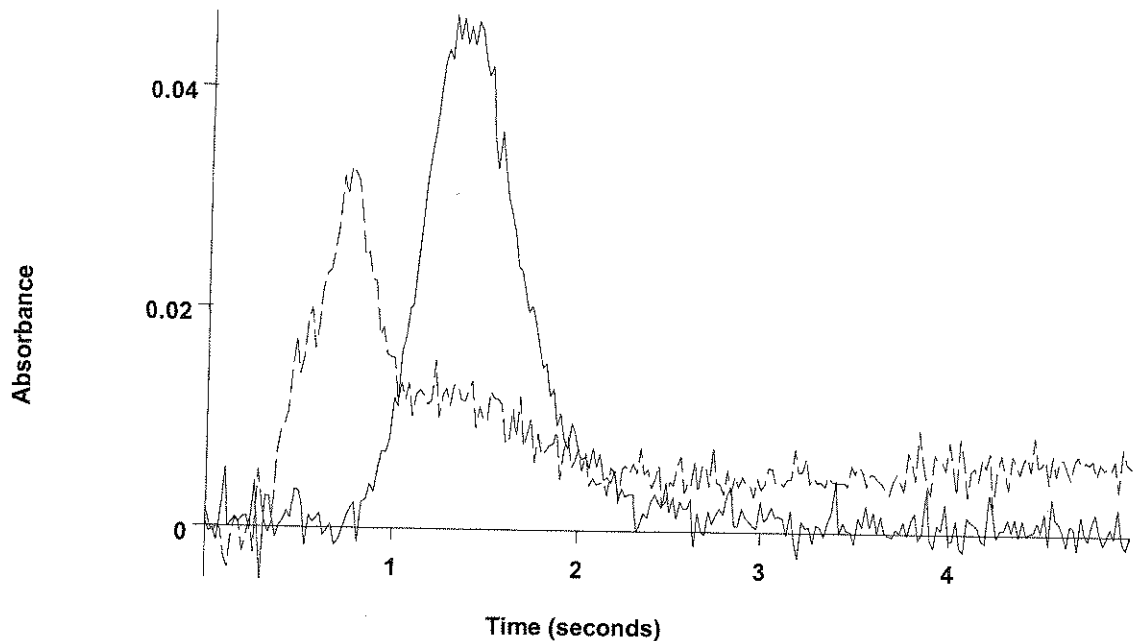
0606346-11  
(Replicate 1)  
(AA)  
-----  
0606346-11  
(Replicate 1)  
(BG)

2	0.1	0.1	0.0010	0.0007	0.0044	0.0391	0.0314	06:52:41	Yes
Mean:	-0.1	-0.1	0.0007						
SD :	0.29	0.29	0.0005						
%RSD:	386	386	67.21						

=====  
Element: Sb    Seq. No.: 443    AS Loc.: 17    Date: 06/28/2006  
Sample ID: 0606346-11  
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 17  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.9	19.9	0.0335	0.0331	0.0467	0.0396	0.0328	06:55:39	Yes

Sb



0606346-11  
(Replicate 1)  
(AA)

0606346-11  
(Replicate 1)  
(BG)

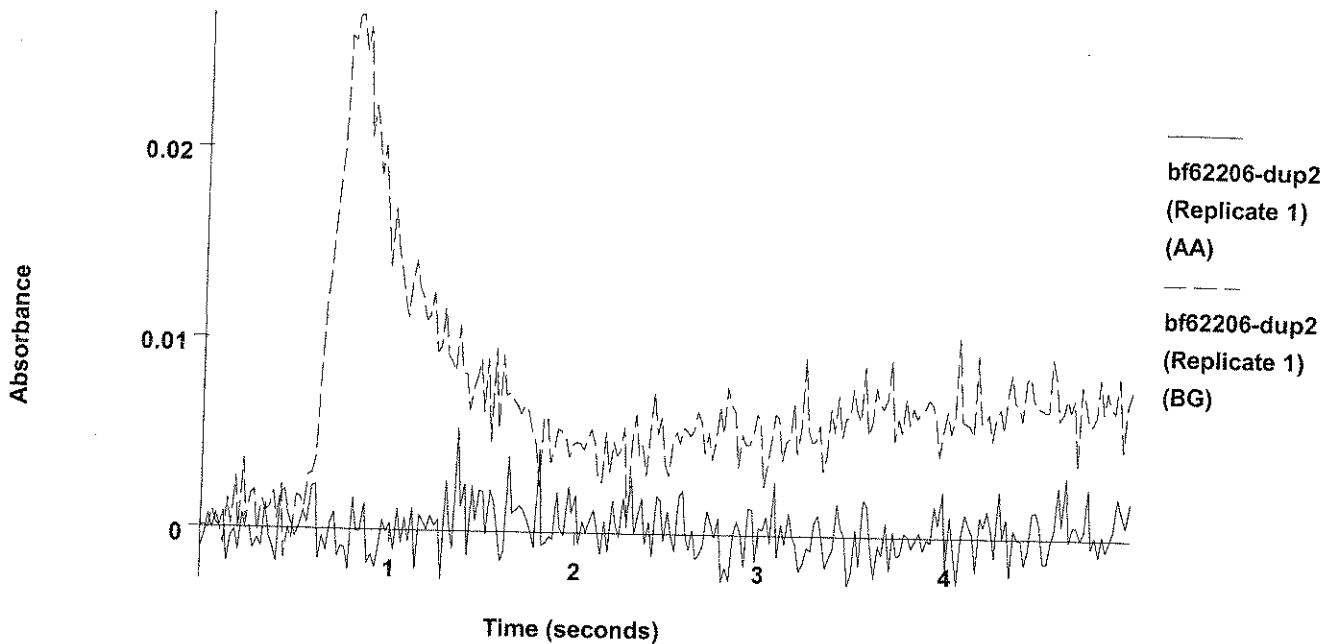
2	19.9	19.9	0.0335	0.0331	0.0407	0.0378	0.0319	06:58:38	Yes
Mean:	19.9	19.9	0.0335						
SD :	0.01	0.01	0.0000						
%RSD:	0.03	0.03	0.02						

Recovery for Sb = 99.7 % within 85 % to 115 %

=====  
 Element: Sb    Seq. No.: 444    AS Loc.: 18    Date: 06/28/2006  
 Sample ID: bf62206-dup2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 18  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0014	0.0011	0.0054	0.0346	0.0270	07:01:28	Yes

Sb

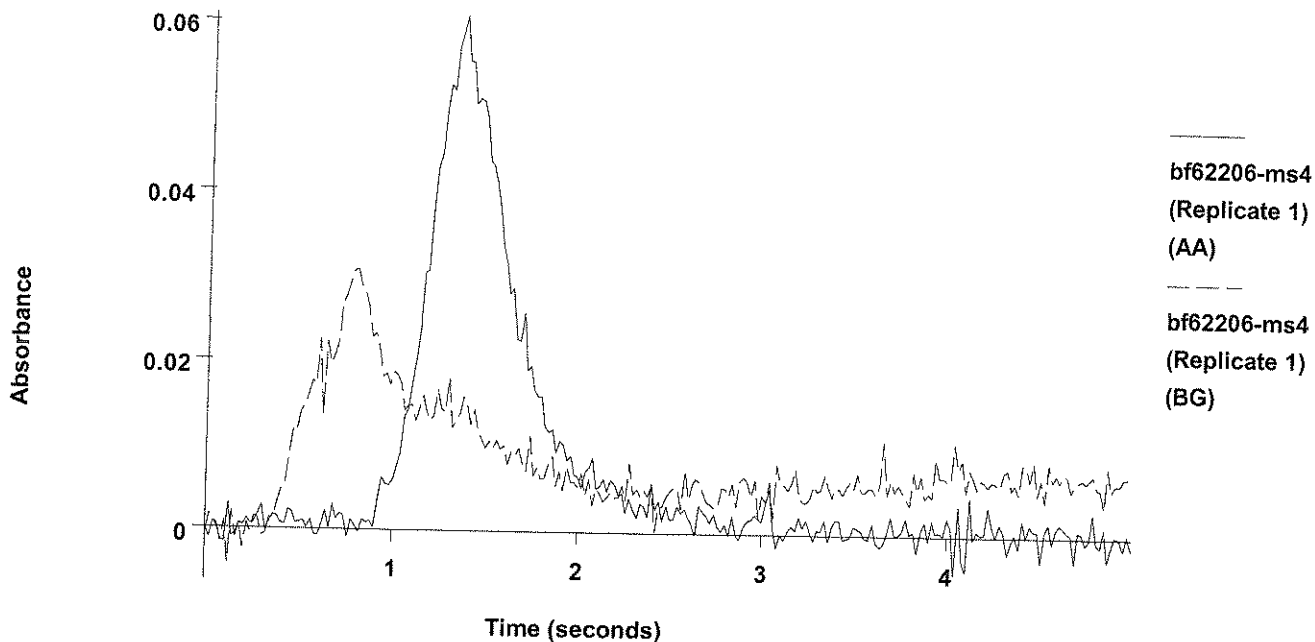


2	-0.2	-0.2	0.0005	0.0002	0.0034	0.0345	0.0324	07:04:18	Yes
Mean:	0.1	0.1	0.0010						
SD :	0.39	0.39	0.0006						
%RSD:	393	393	65.49						

=====  
 Element: Sb    Seq. No.: 445    AS Loc.: 19    Date: 06/28/2006  
 Sample ID: bf62206-ms4  
 µL dispensed: 10 from 148, 5 from 147, 15 from 19  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.8	20.8	0.0349	0.0345	0.0607	0.0406	0.0308	07:07:07	Yes

Sb



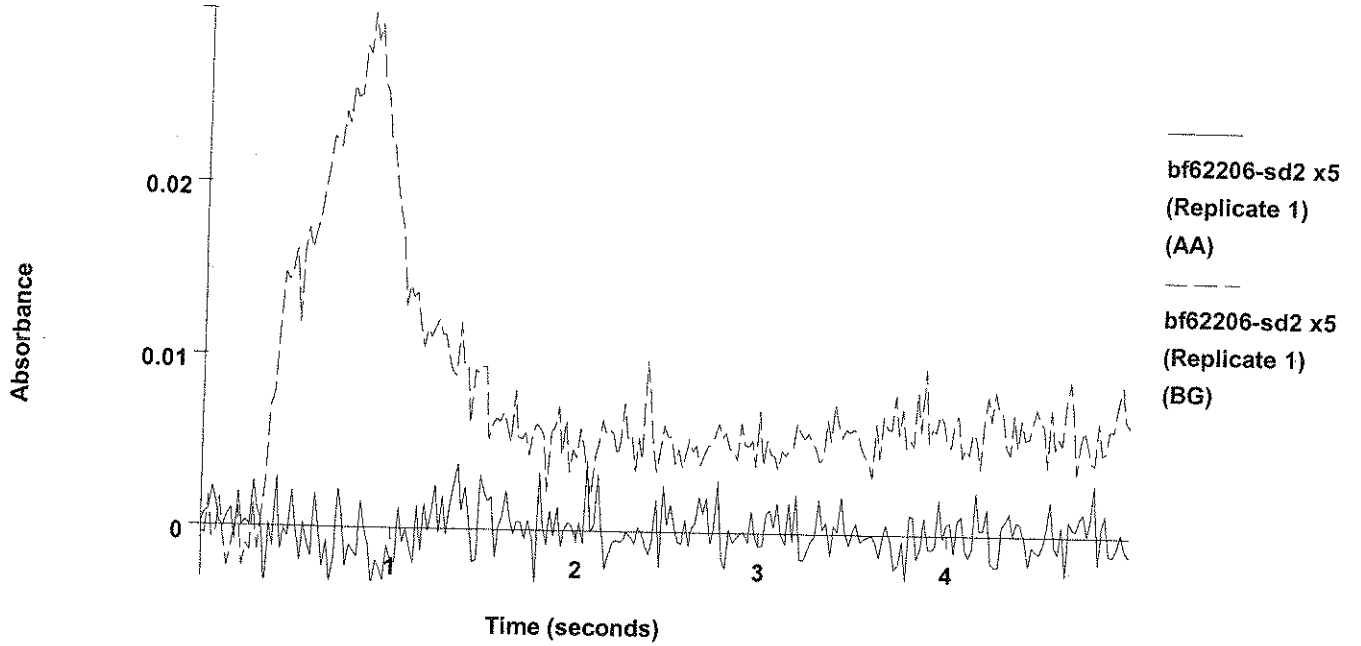
2	20.6	20.6	0.0346	0.0343	0.0549	0.0409	0.0351	07:09:58	Yes
Mean:	20.7	20.7	0.0348						
SD :	0.11	0.11	0.0002						
%RSD:	0.51	0.51	0.50						

1045

=====  
 Element: Sb    Seq. No.: 446    AS Loc.: 20    Date: 06/28/2006  
 Sample ID: bf62206-sd2 x5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 20  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	0.0006	0.0003	0.0041	0.0388	0.0299	07:12:48	Yes

Sb



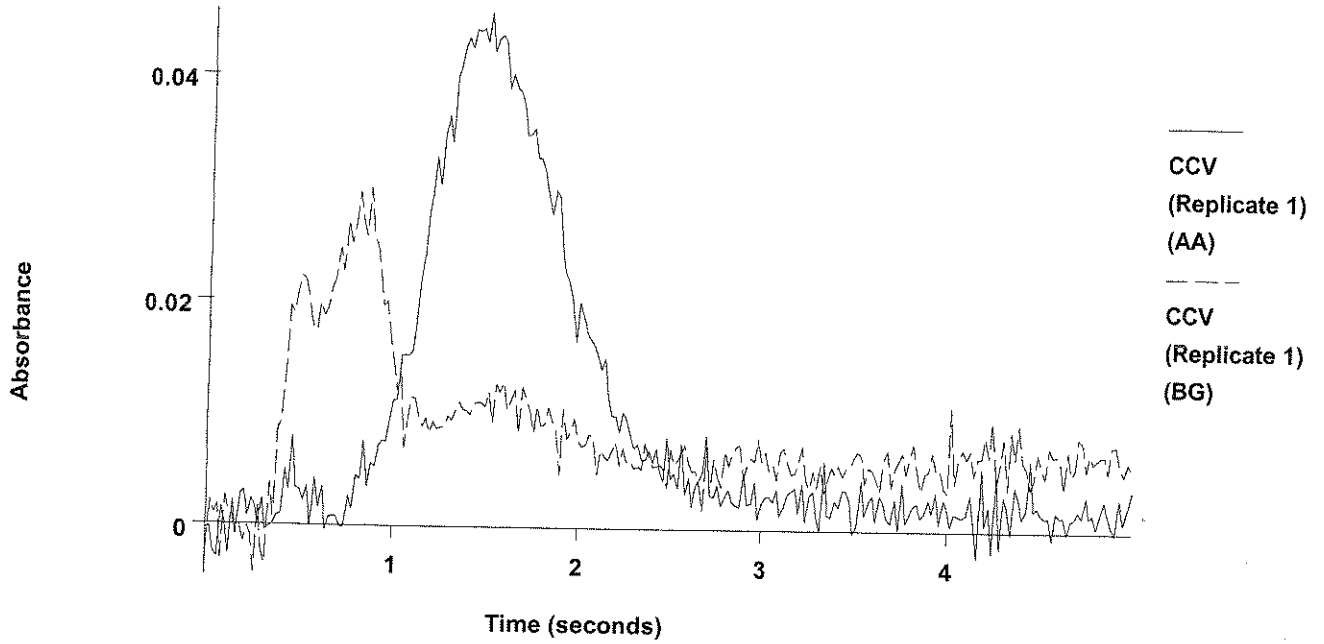
2	0.4	0.4	0.0015	0.0011	0.0047	0.0389	0.0291	07:15:38	Yes
Mean:	0.1	0.1	0.0011						
SD :	0.35	0.35	0.0006						
%RSD:	248	248	55.22						

*W*

=====  
 Element: Sb    Seq. No.: 447    AS Loc.: 126    Date: 06/28/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.4	27.4	0.0458	0.0454	0.0457	0.0415	0.0301	07:18:29	Yes

Sb



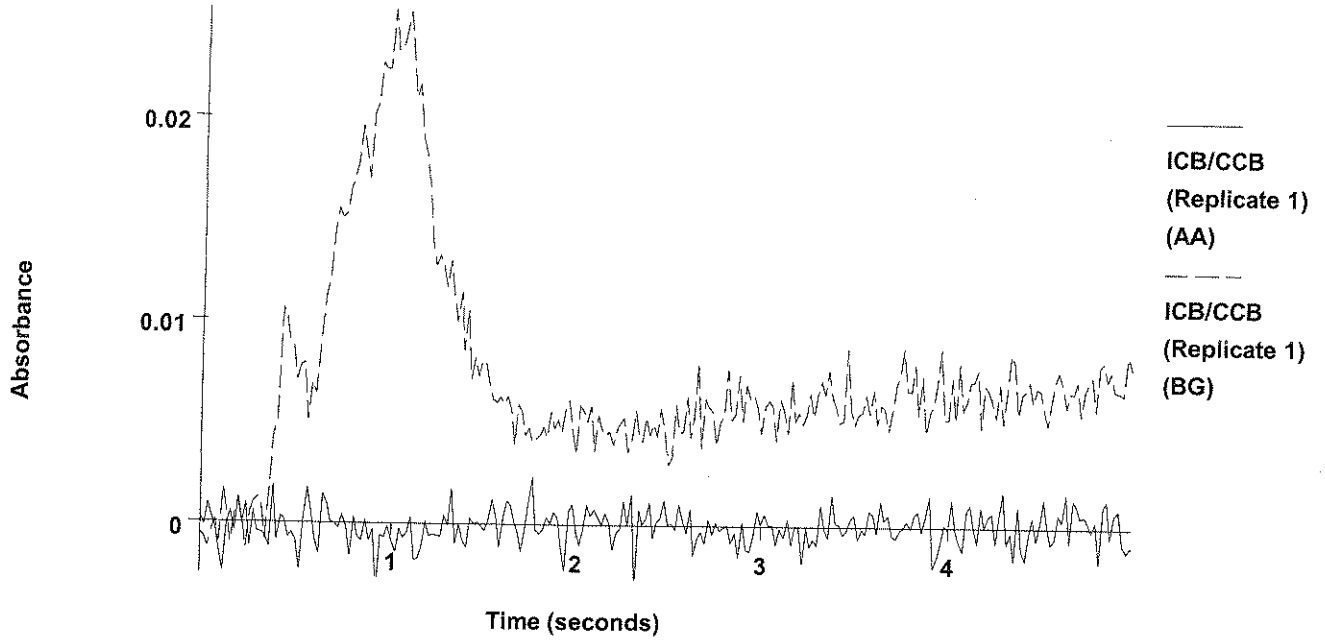
2	26.2	26.2	0.0438	0.0435	0.0475	0.0419	0.0293	07:21:23	Yes
Mean:	26.8	26.8	0.0448						
SD :	0.85	0.85	0.0014						
%RSD:	3.15	3.15	3.10						

QC value within specified limits.

=====  
 Element: Sb    Seq. No.: 448    AS Loc.: 148    Date: 06/28/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0001	-0.0004	0.0023	0.0368	0.0253	07:24:13	Yes

Sb



2            -0.4            -0.4            0.0001    -0.0002    0.0026    0.0363    0.0247    07:27:02    Yes  
 Mean:       -0.5            -0.5            0.0000  
 SD :         0.08            0.08            0.0001  
 %RSD:       15.8            15.8            505.41  
 QC value within specified limits.

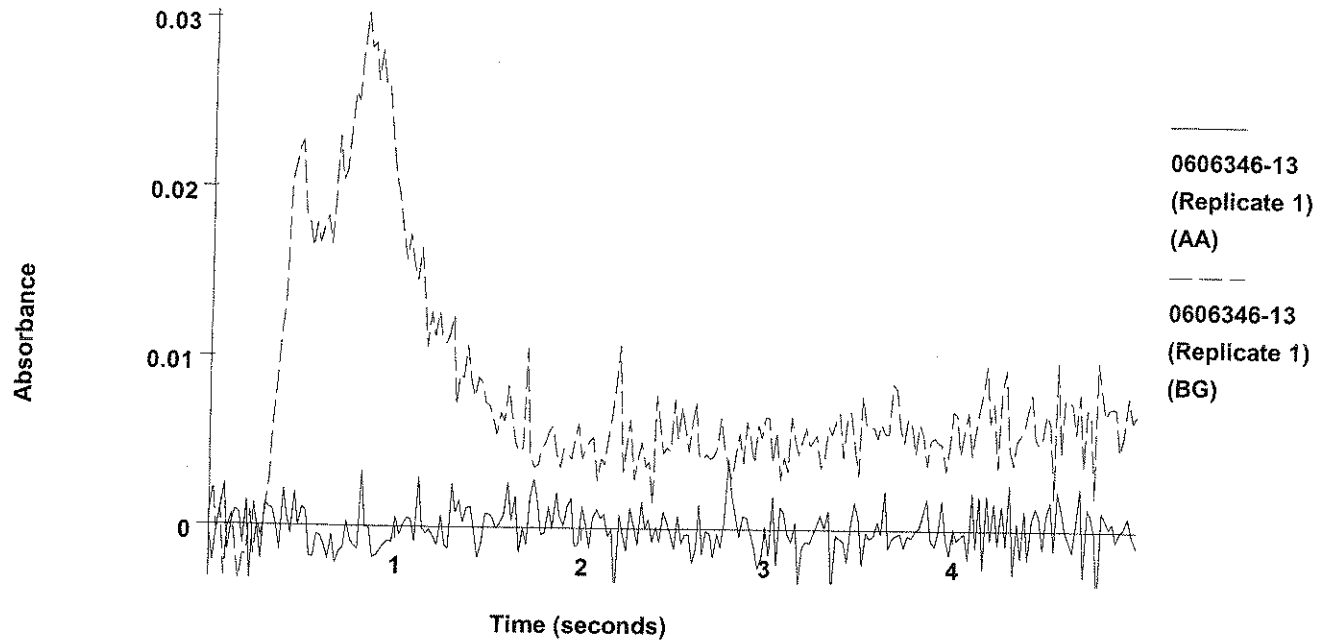


=====  
 Element: Sb      Seq. No.: 449      AS Loc.: 21      Date: 06/28/2006  
 Sample ID: 0606346-13  
 µL dispensed: 10 from 148, 5 from 147, 15 from 21  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	0.0003	-0.0001	0.0041	0.0396	0.0304	07:29:51	Yes



Sb



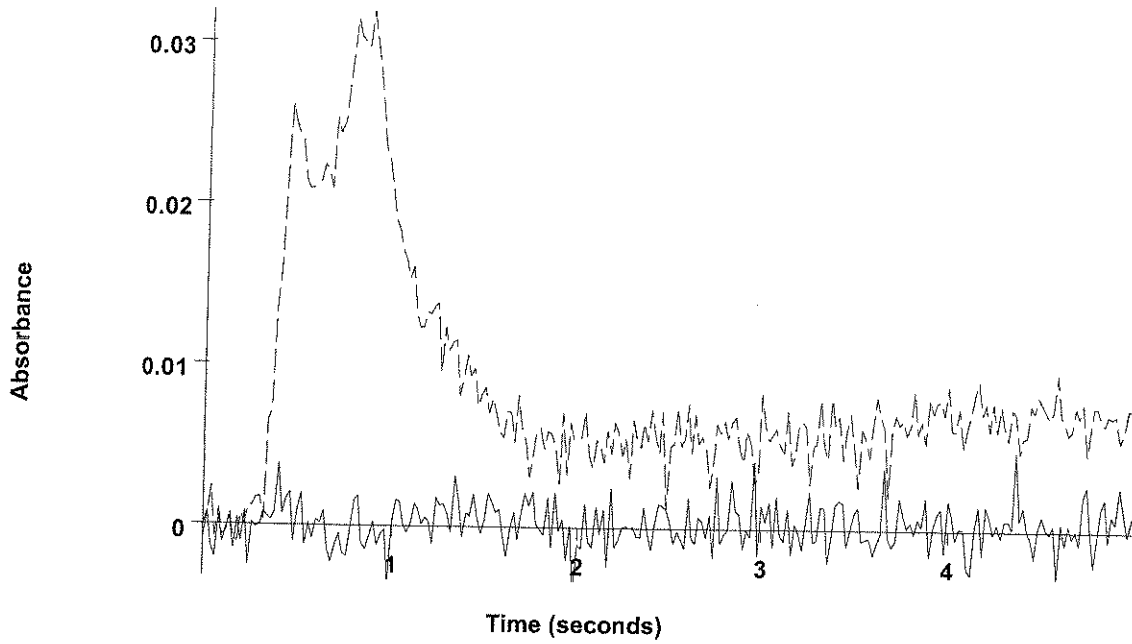
2	-0.8	-0.8	-0.0005	-0.0009	0.0061	0.0411	0.0295	07:32:42	Yes
Mean:	-0.6	-0.6	-0.0001						
SD :	0.33	0.33	0.0005						
%RSD:	56.6	56.6	425.94						

*Handwritten signature*

=====  
 Element: Sb    Seq. No.: 450    AS Loc.: 22    Date: 06/28/2006  
 Sample ID: 0606346-14  
 µL dispensed: 10 from 148, 5 from 147, 15 from 22  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0014	0.0011	0.0049	0.0434	0.0320	07:35:32	Yes

Sb



0606346-14  
(Replicate 1)  
(AA)  
-----  
0606346-14  
(Replicate 1)  
(BG)

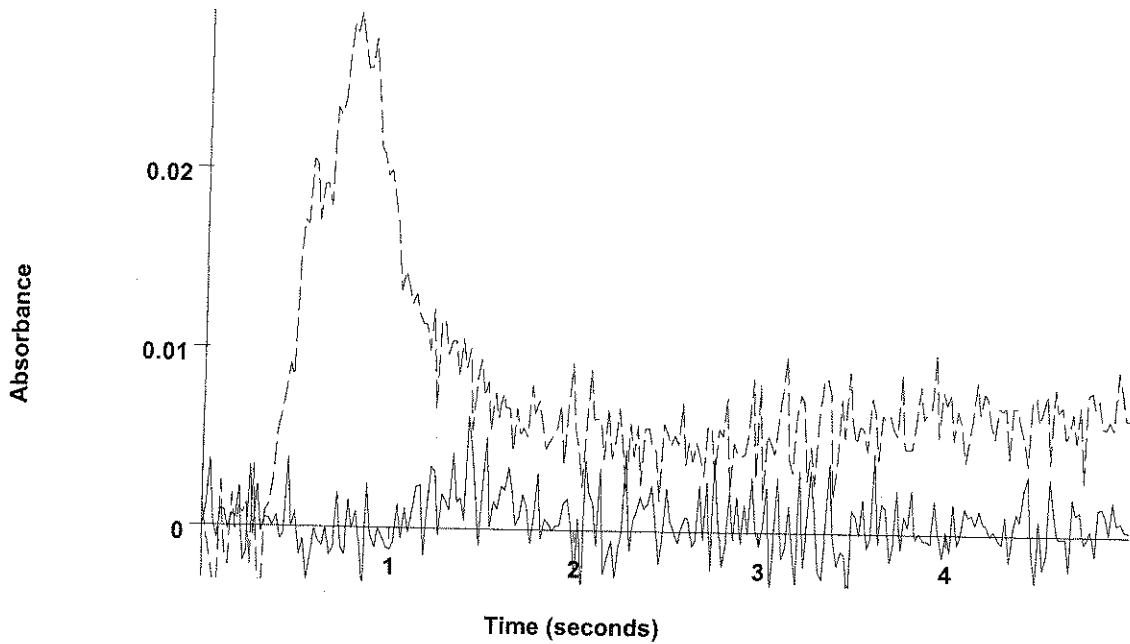
2	0.2	0.2	0.0011	0.0007	0.0040	0.0413	0.0320	07:38:22	Yes
Mean:	0.3	0.3	0.0013						
SD :	0.14	0.14	0.0002						
%RSD:	51.4	51.4	17.86						

*Handwritten signature*

=====  
Element: Sb    Seq. No.: 451    AS Loc.: 23    Date: 06/28/2006  
Sample ID: 0606346-15  
µL dispensed: 10 from 148, 5 from 147, 15 from 23  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.2	1.2	0.0028	0.0025	0.0063	0.0383	0.0288	07:41:11	Yes

Sb



-----  
 0606346-15  
 (Replicate 1)  
 (AA)  
 -----  
 0606346-15  
 (Replicate 1)  
 (BG)

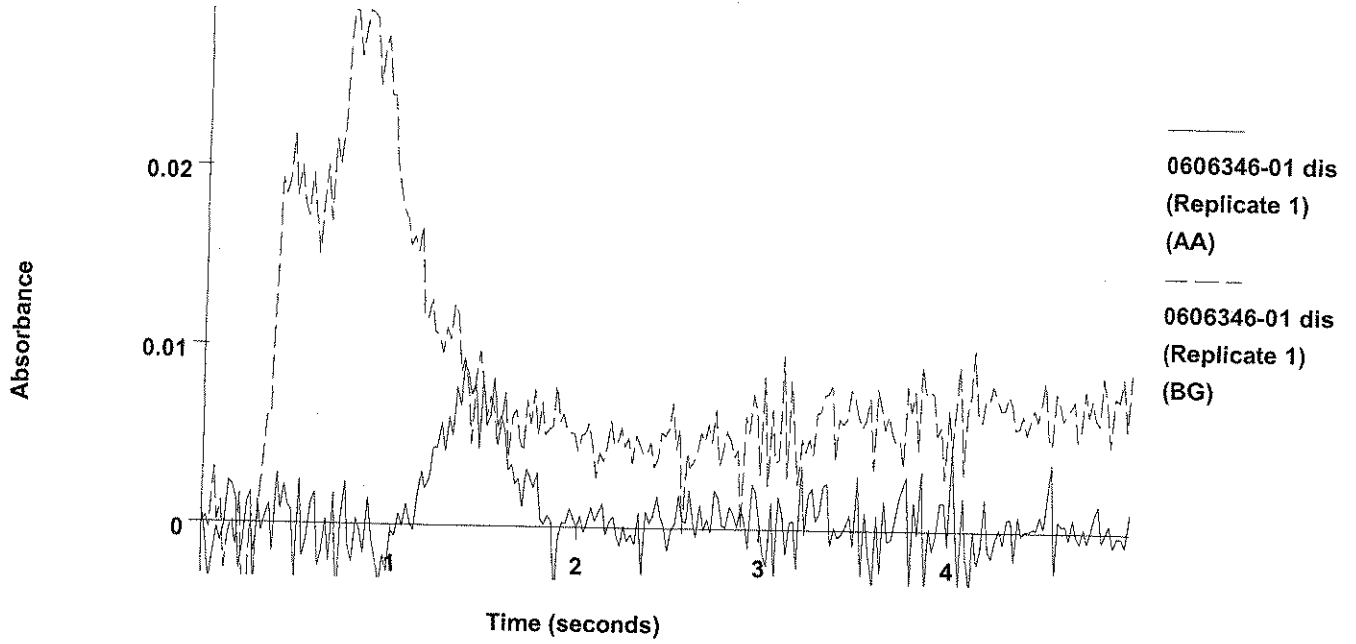
2	0.8	0.8	0.0021	0.0017	0.0039	0.0394	0.0313	07:44:02	Yes
Mean:	1.0	1.0	0.0024						
SD :	0.33	0.33	0.0005						
%RSD:	33.6	33.6	22.37						

*Handwritten signature*

=====  
 Element: Sb    Seq. No.: 452    AS Loc.: 24    Date: 06/28/2006  
 Sample ID: 0606346-01 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 24  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.9	1.9	0.0040	0.0036	0.0090	0.0405	0.0288	07:46:52	Yes

Sb



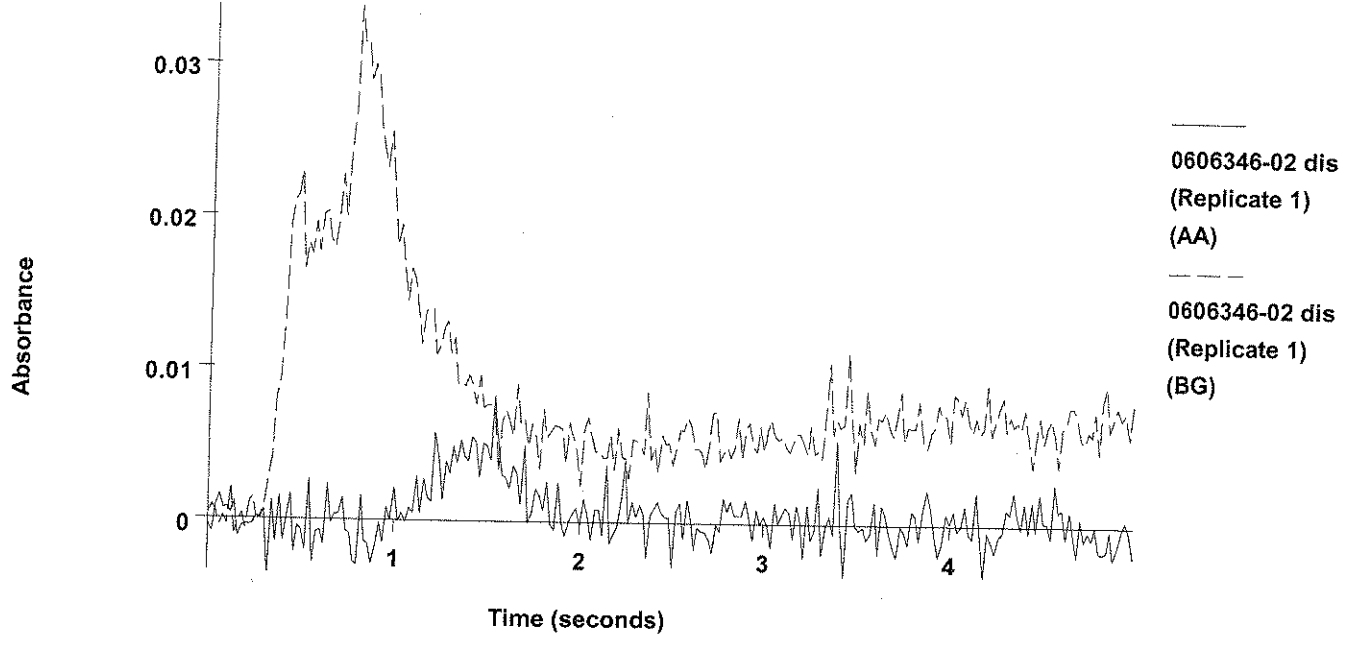
2	2.1	2.1	0.0042	0.0038	0.0075	0.0449	0.0337	07:49:42	Yes
Mean:	2.0	2.0	0.0041						
SD :	0.09	0.09	0.0001						
%RSD:	4.61	4.61	3.68						

*M*

=====  
 Element: Sb    Seq. No.: 453    AS Loc.: 25    Date: 06/28/2006  
 Sample ID: 0606346-02 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 25  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.2	1.2	0.0027	0.0024	0.0083	0.0419	0.0338	07:52:32	Yes

Sb



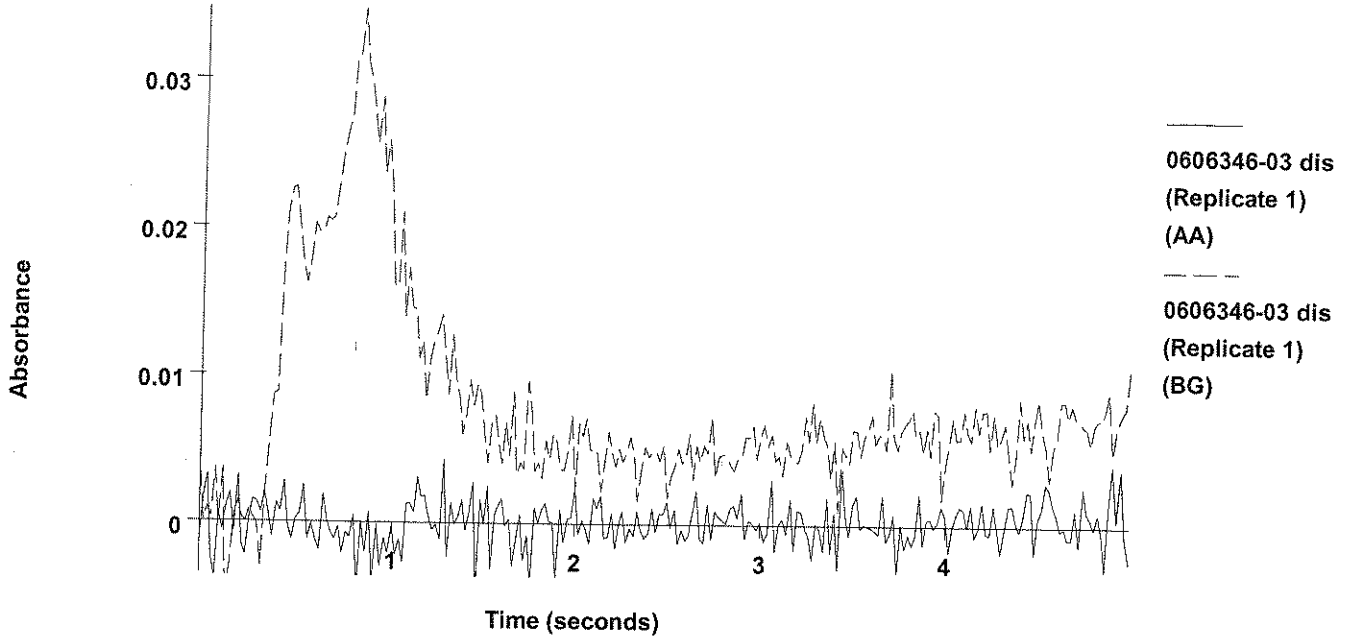
2	-0.9	-0.9	-0.0007	-0.0011	0.0042	0.0445	0.0325	07:55:23	Yes
Mean:	0.1	0.1	0.0010						
SD :	1.48	1.48	0.0024						
%RSD:	1390	1390	244.52						

*Handwritten signature*

=====  
 Element: Sb    Seq. No.: 454    AS Loc.: 26    Date: 06/28/2006  
 Sample ID: 0606346-03 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 26

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	0.0007	0.0004	0.0043	0.0402	0.0348	07:58:12	Yes

Sb



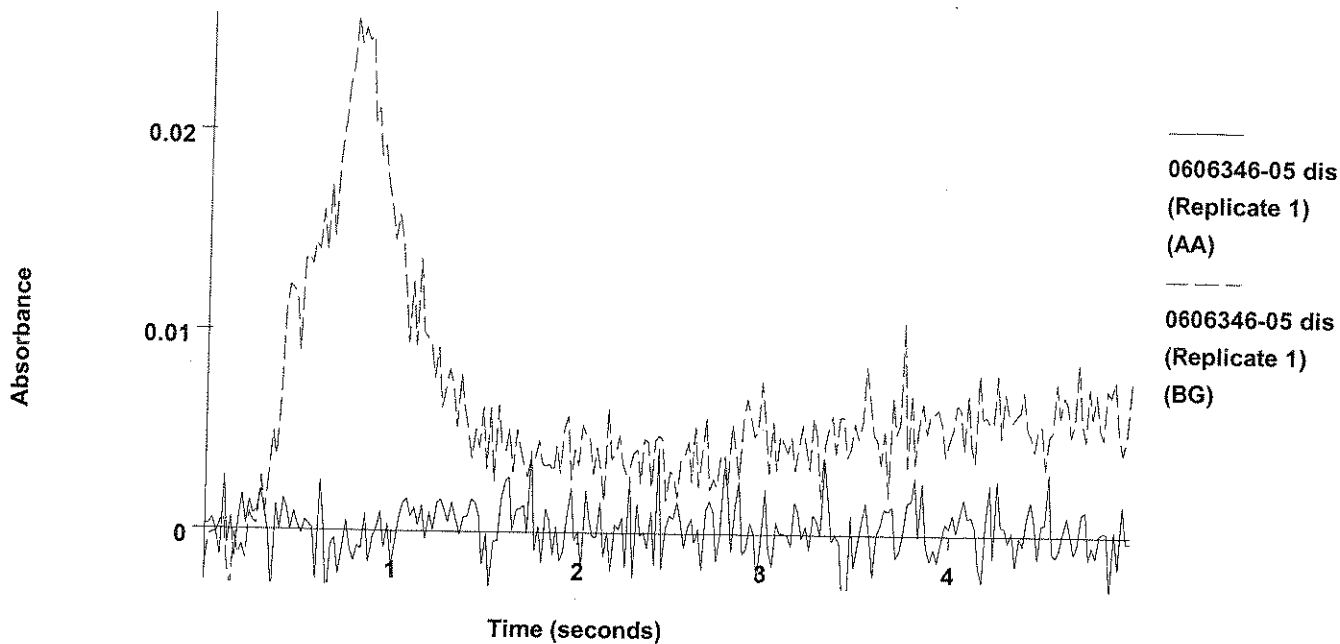
2	-0.3	-0.3	0.0003	0.0000	0.0059	0.0308	0.0252	08:01:01	Yes
Mean:	-0.2	-0.2	0.0005						
SD :	0.18	0.18	0.0003						
%RSD:	101	101	57.24						

*Handwritten signature or initials.*

=====  
 Element: Sb    Seq. No.: 455    AS Loc.: 27    Date: 06/28/2006  
 Sample ID: 0606346-05 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 27  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0015	0.0011	0.0043	0.0318	0.0257	08:03:51	Yes

Sb



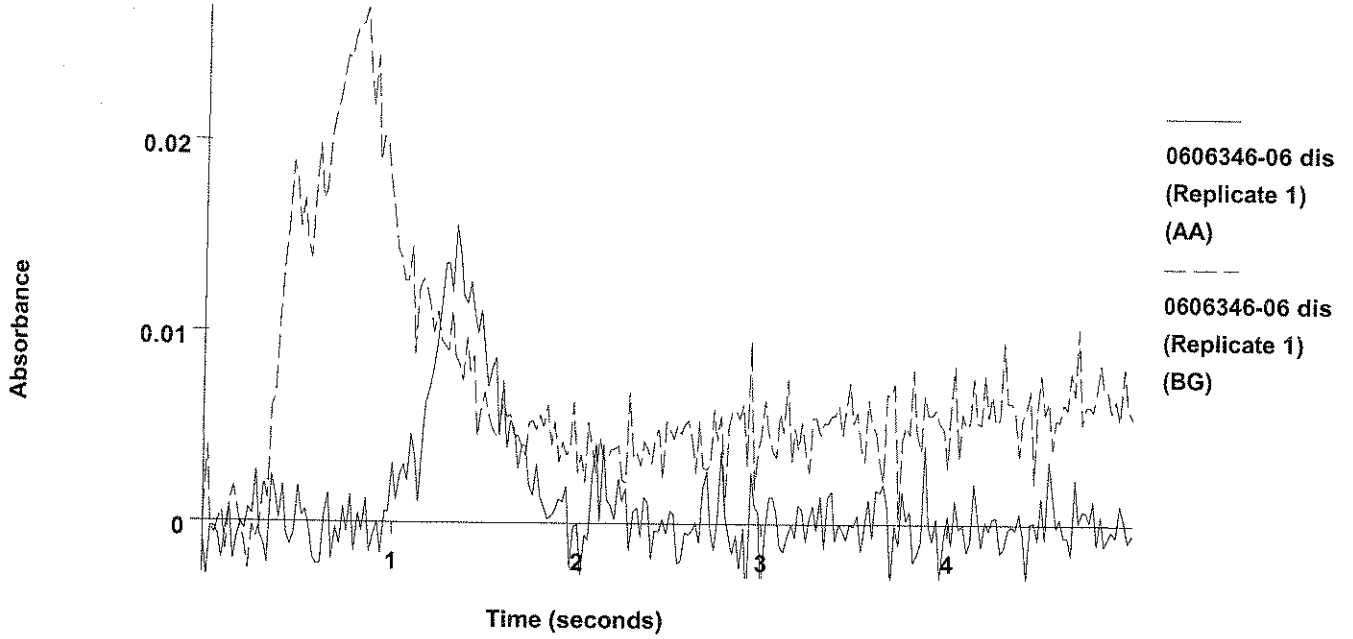
2	0.3	0.3	0.0013	0.0010	0.0035	0.0364	0.0293	08:06:41	Yes
Mean:	0.3	0.3	0.0014						
SD :	0.06	0.06	0.0001						
%RSD:	16.8	16.8	6.89						

*Handwritten signature*

=====  
 Element: Sb    Seq. No.: 456    AS Loc.: 28    Date: 06/28/2006  
 Sample ID: 0606346-06 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 28  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.1	3.1	0.0060	0.0056	0.0156	0.0355	0.0270	08:09:30	Yes

Sb



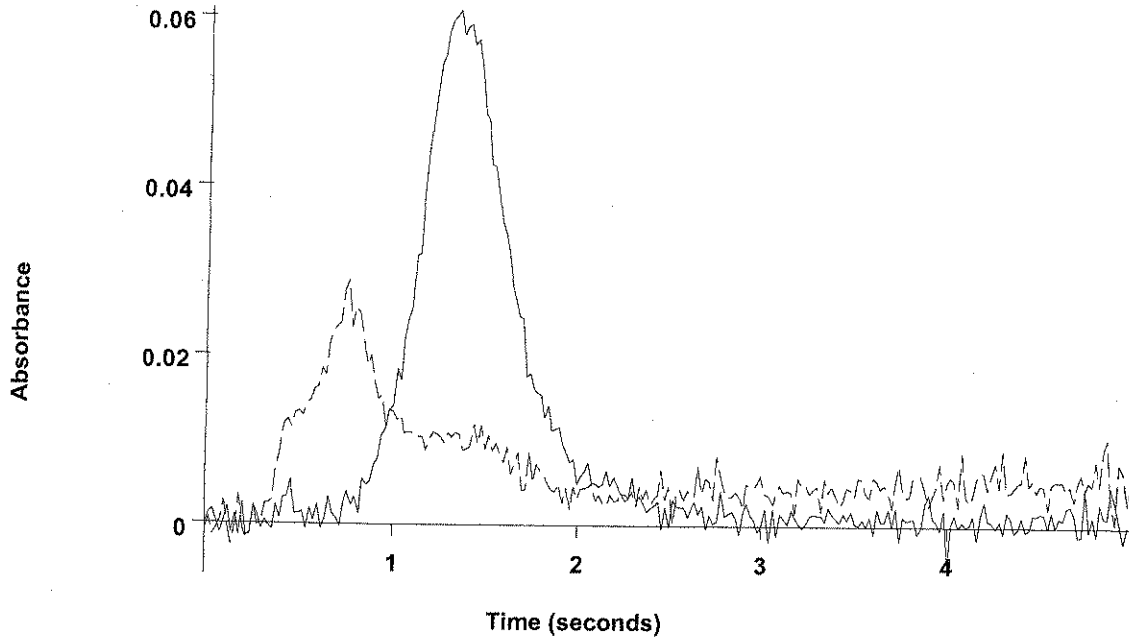
2	4.1	4.1	0.0075	0.0071	0.0153	0.0327	0.0268	08:12:19	Yes
Mean:	3.6	3.6	0.0067						
SD :	0.66	0.66	0.0011						
%RSD:	18.2	18.2	16.01						

=====  
 Element: Sb    Seq. No.: 457    AS Loc.: 28    Date: 06/28/2006  
 Sample ID: 0606346-06 dis  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 28  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.0	24.0	0.0402	0.0398	0.0609	0.0331	0.0289	08:15:16	Yes



Sb



0606346-06 dis  
(Replicate 1)  
(AA)  
0606346-06 dis  
(Replicate 1)  
(BG)

2	22.9	22.9	0.0383	0.0379	0.0660	0.0343	0.0269	08:18:14	Yes
Mean:	23.4	23.4	0.0392						
SD :	0.84	0.84	0.0014						
%RSD:	3.58	3.58	3.50						

Recovery for Sb = 117.2 %, greater than upper limit 115 %

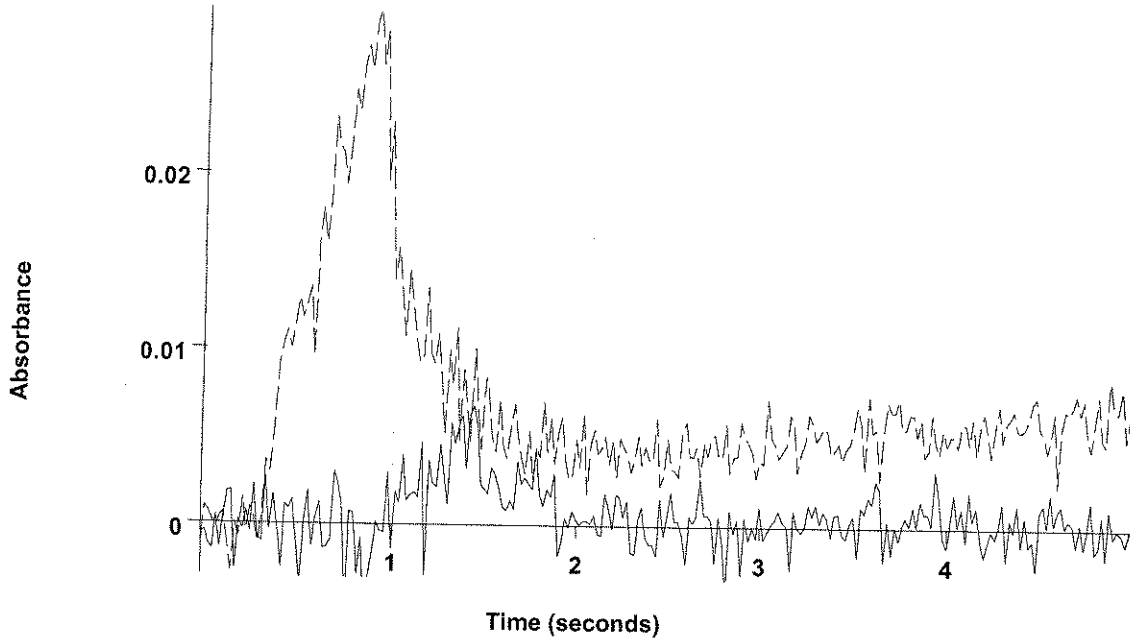
*high*

=====  
 Element: Sb    Seq. No.: 458    AS Loc.: 28    Date: 06/28/2006  
 Sample ID: 0606346-06 dis  
 µL dispensed: 20 from 148, 5 from 147, 5 from 28  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blank/Corr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.0	1.3	0.0030	0.0027	0.0068	0.0344	0.0293	08:21:03	Yes

*10*  
*A*

Sb



0606346-06 dis  
(Replicate 1)  
(AA)

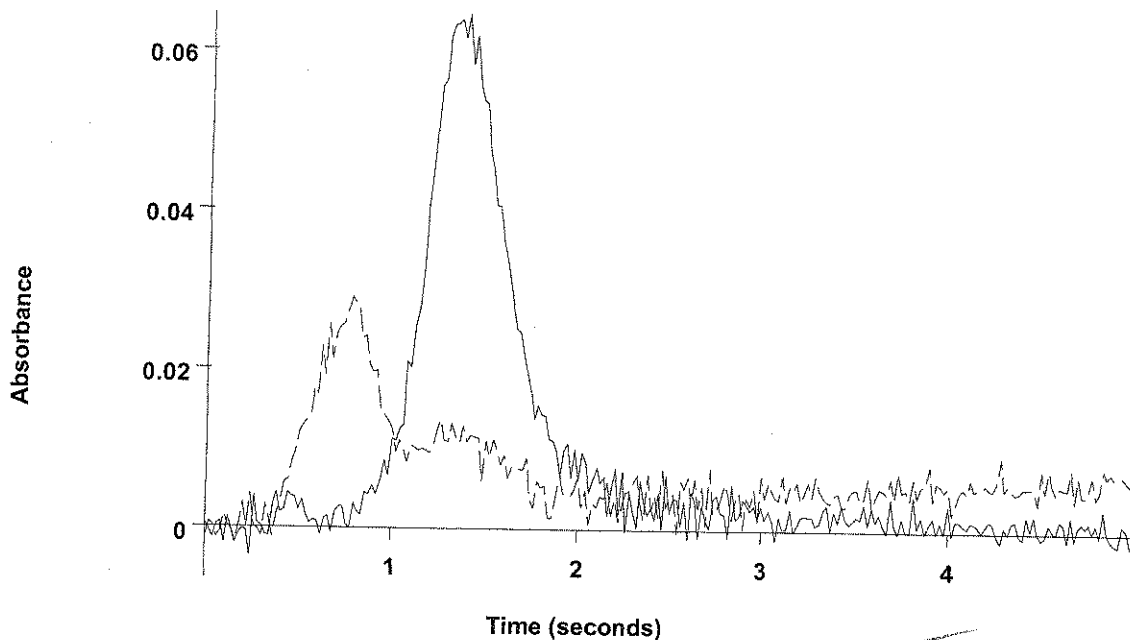
0606346-06 dis  
(Replicate 1)  
(BG)

2	2.3	0.8	0.0021	0.0017	0.0054	0.0314	0.0253	08:23:52	Yes
Mean:	3.2	1.1	0.0026						
SD :	1.22	0.41	0.0007						
%RSD:	38.6	38.6	26.21						

=====  
 Element: Sb    Seq. No.: 459    AS Loc.: 28    Date: 06/28/2006  
 Sample ID: 0606346-06 dis  
 µL dispensed: 14 from 148, 5 from 147, 6 from 131, 5 from 28  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	71.9	24.0	0.0401	0.0397	0.0646	0.0345	0.0290	08:26:49	Yes

Sb



0606346-06 dis  
(Replicate 1)  
(AA)

0606346-06 dis  
(Replicate 1)  
(BG)

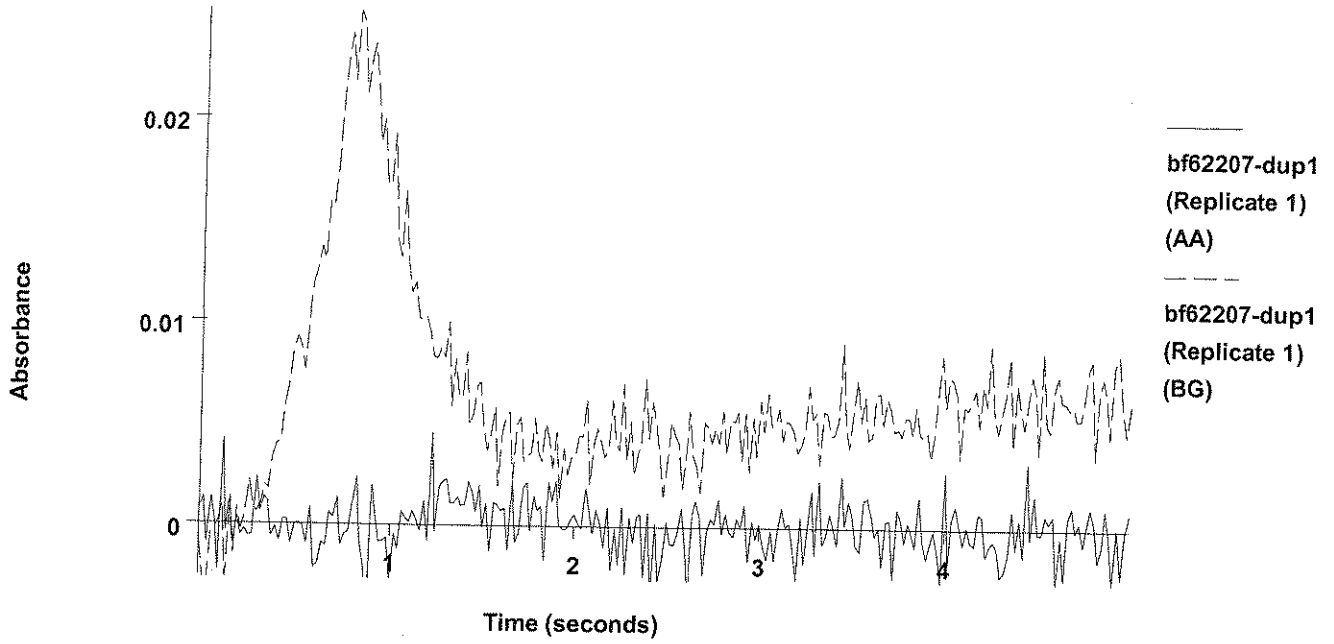
2	65.9	22.0	0.0368	0.0364	0.0625	0.0311	0.0268	08:29:47	Yes
Mean:	68.9	23.0	0.0384						
SD :	4.28	1.43	0.0023						
%RSD:	6.21	6.21	6.07						

Recovery for Sb = 114.8 % within 85 % to 115 %

=====  
 Element: Sb    Seq. No.: 460    AS Loc.: 29    Date: 06/28/2006  
 Sample ID: bf62207-dup1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 29  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	0.0003	0.0000	0.0046	0.0322	0.0253	08:32:37	Yes

Sb



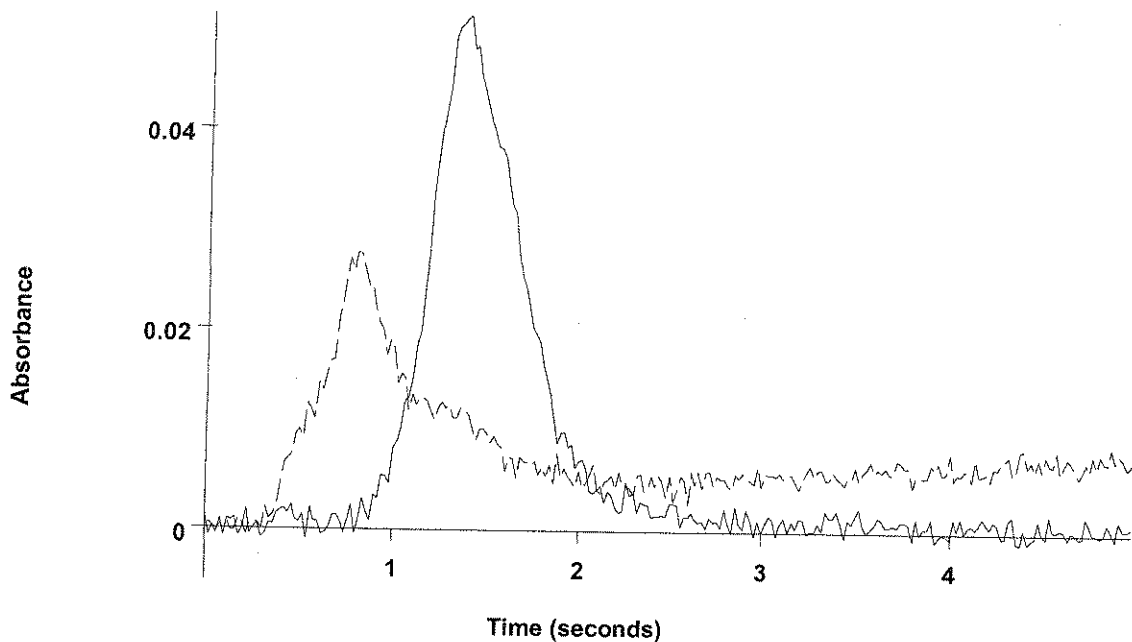
2	0.1	0.1	0.0009	0.0006	0.0033	0.0356	0.0297	08:35:27	Yes
Mean:	-0.1	-0.1	0.0006						
SD :	0.27	0.27	0.0004						
%RSD:	222	222	71.21						

*Handwritten signature*

=====  
 Element: Sb    Seq. No.: 461    AS Loc.: 30    Date: 06/28/2006  
 Sample ID: bf62207-ms3  
 µL dispensed: 10 from 148, 5 from 147, 15 from 30  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.6	19.6	0.0329	0.0325	0.0514	0.0379	0.0276	08:38:16	Yes

Sb



-----  
 bf62207-ms3  
 (Replicate 1)  
 (AA)  
 -----  
 bf62207-ms3  
 (Replicate 1)  
 (BG)

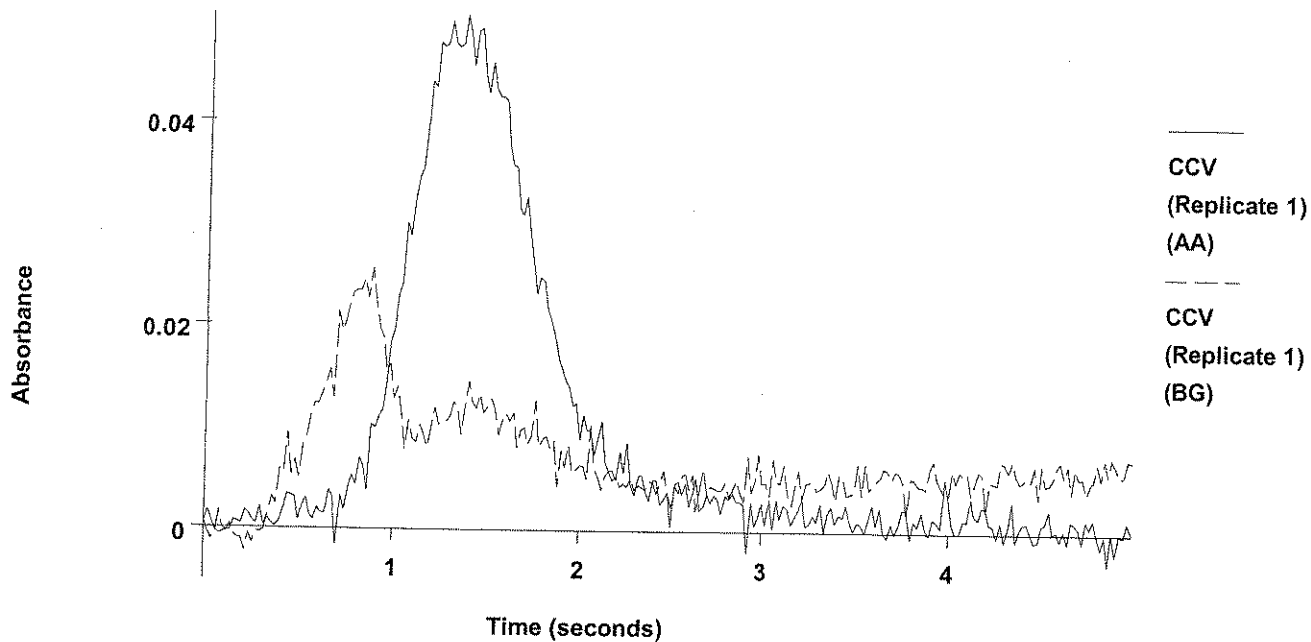
2	19.7	19.7	0.0332	0.0328	0.0671	0.0352	0.0270	08:41:06	Yes
Mean:	19.7	19.7	0.0330						
SD :	0.13	0.13	0.0002						
%RSD:	0.66	0.66	0.64						

995

=====  
 Element: Sb    Seq. No.: 462    AS Loc.: 126    Date: 06/28/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.6	26.6	0.0443	0.0440	0.0505	0.0348	0.0256	08:43:57	Yes

Sb



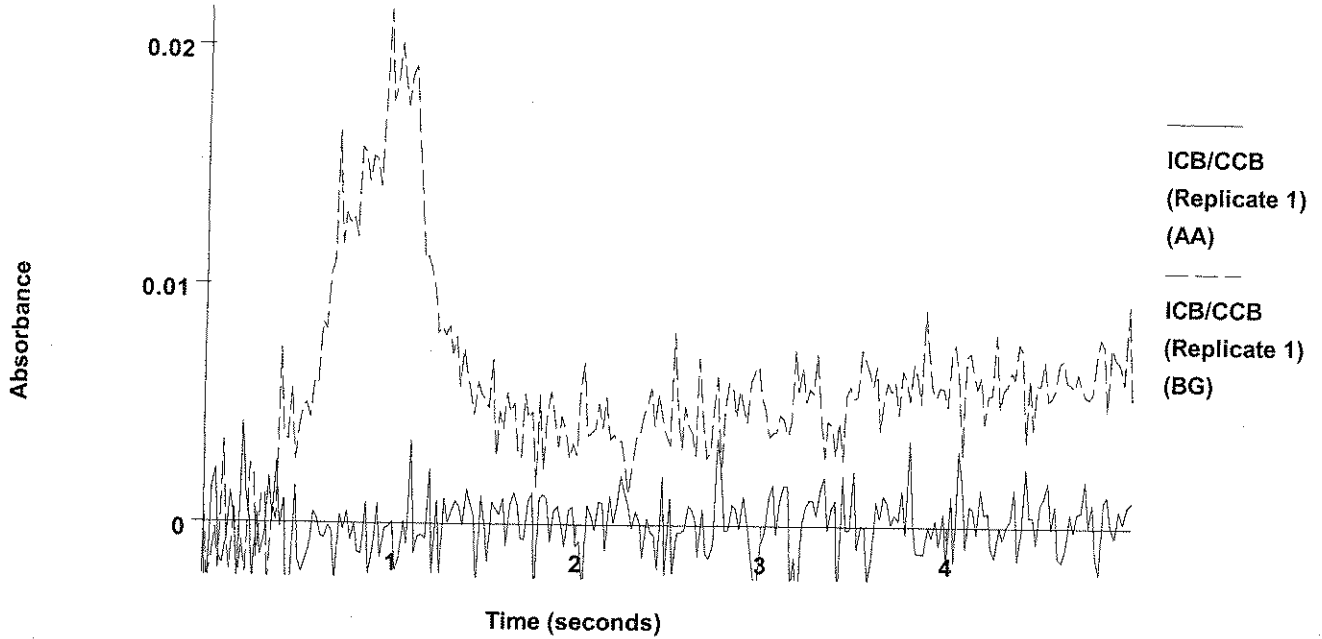
2	24.5	24.5	0.0410	0.0406	0.0533	0.0350	0.0240	08:46:51	Yes
Mean:	25.5	25.5	0.0427						
SD :	1.44	1.44	0.0024						
%RSD:	5.64	5.64	5.53						

QC value within specified limits.

=====  
 Element: Sb    Seq. No.: 463    AS Loc.: 148    Date: 06/28/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	0.0006	0.0003	0.0042	0.0300	0.0215	08:49:41	Yes

Sb



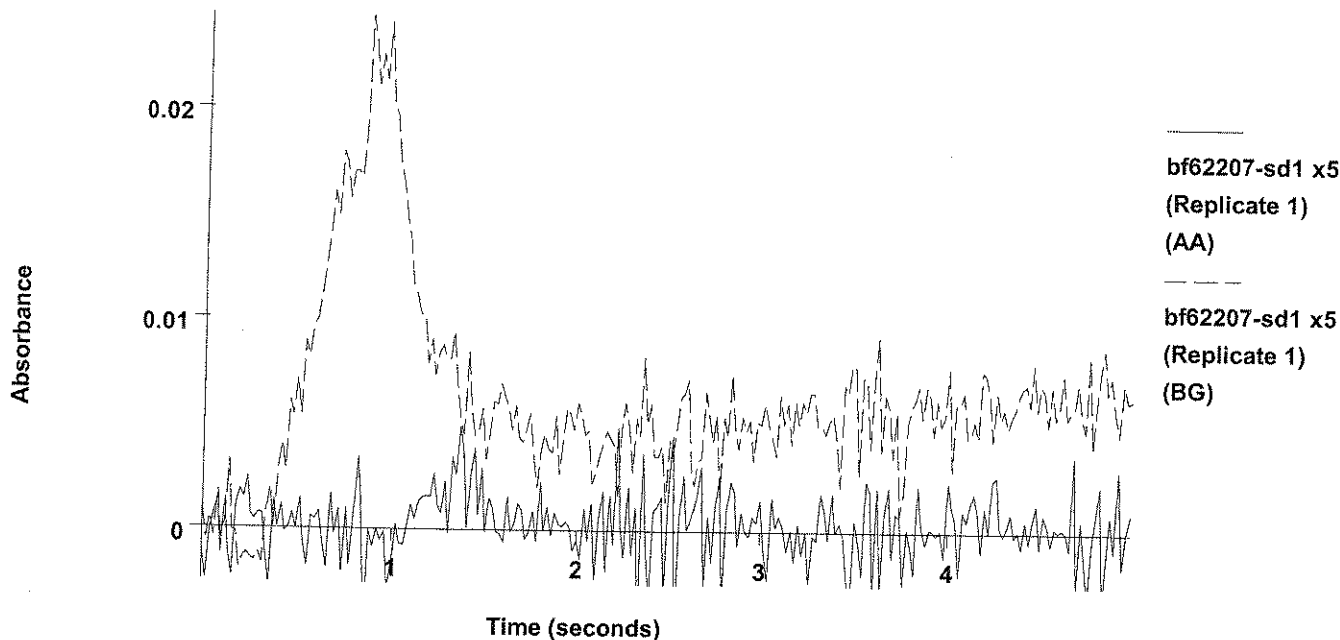
2	0.0	0.0	0.0008	0.0004	0.0047	0.0310	0.0220	08:52:31	Yes
Mean:	-0.1	-0.1	0.0007						
SD :	0.07	0.07	0.0001						
%RSD:	103	103	17.11						

QC value within specified limits. ✓

=====  
 Element: Sb    Seq. No.: 464    AS Loc.: 31    Date: 06/28/2006  
 Sample ID: bf62207-sd1 x5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 31  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	0.0016	0.0013	0.0049	0.0317	0.0244	08:55:20	Yes

Sb



2	-0.4	-0.4	0.0002	-0.0002	0.0045	0.0341	0.0246	08:58:10	Yes
Mean:	0.0	0.0	0.0009						
SD :	0.64	0.64	0.0011						
%RSD:	1290	1290	117.25						

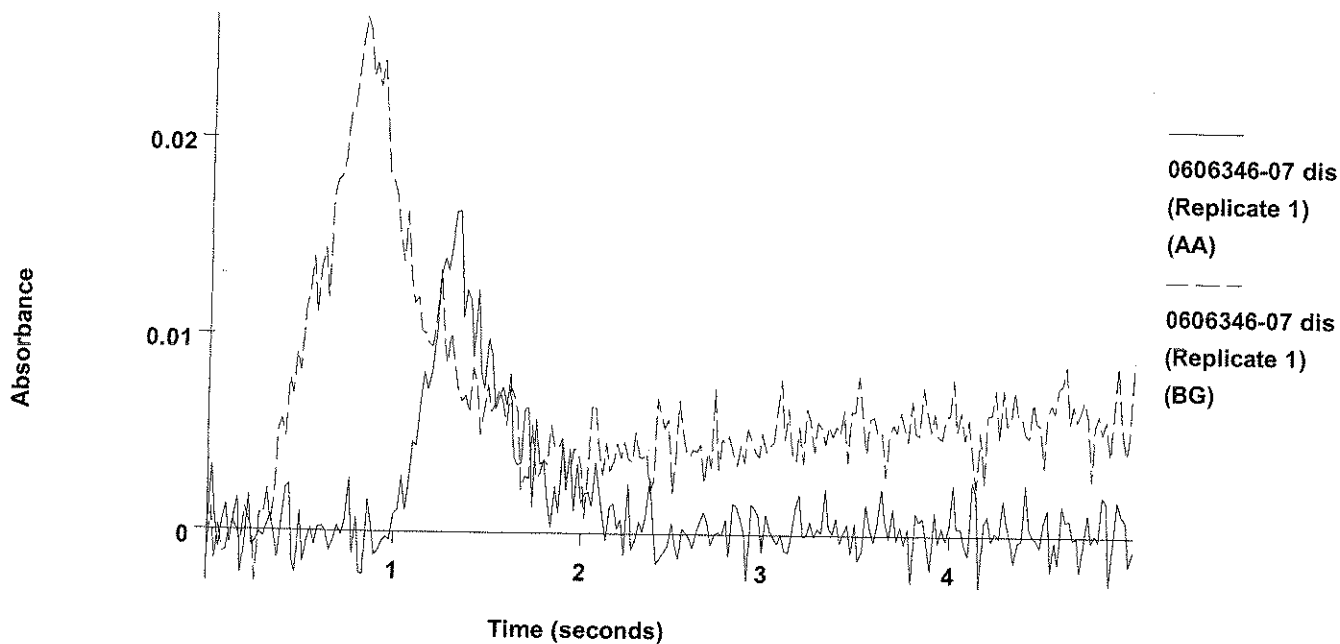
*M*

=====  
 Element: Sb    Seq. No.: 465    AS Loc.: 32    Date: 06/28/2006  
 Sample ID: 0606346-07 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 32  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.3	4.3	0.0079	0.0075	0.0164	0.0334	0.0262	09:01:00	Yes



Sb



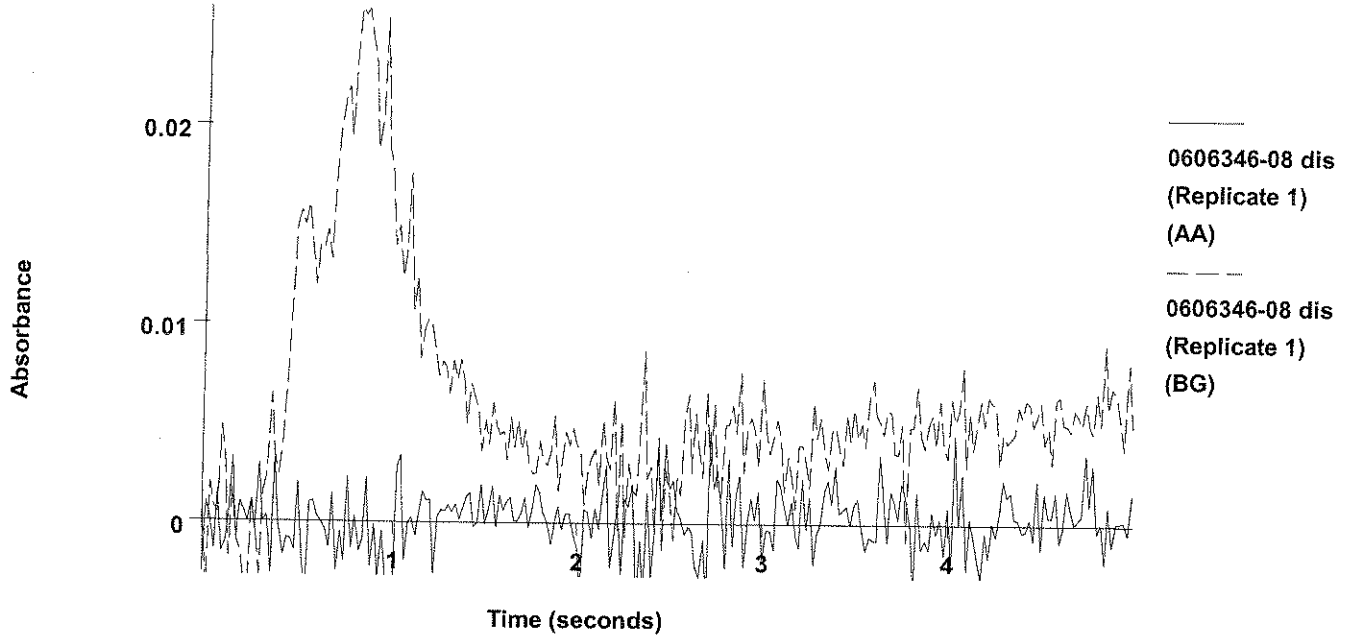
2	4.5	4.5	0.0082	0.0079	0.0192	0.0372	0.0283	09:03:51	Yes
Mean:	4.4	4.4	0.0081						
SD :	0.14	0.14	0.0002						
%RSD:	3.16	3.16	2.84						

*Handwritten signature or initials*

=====  
 Element: Sb    Seq. No.: 466    AS Loc.: 33    Date: 06/28/2006  
 Sample ID: 0606346-08 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 33  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.3	0.3	0.0013	0.0009	0.0047	0.0305	0.0259	09:06:41	Yes

Sb



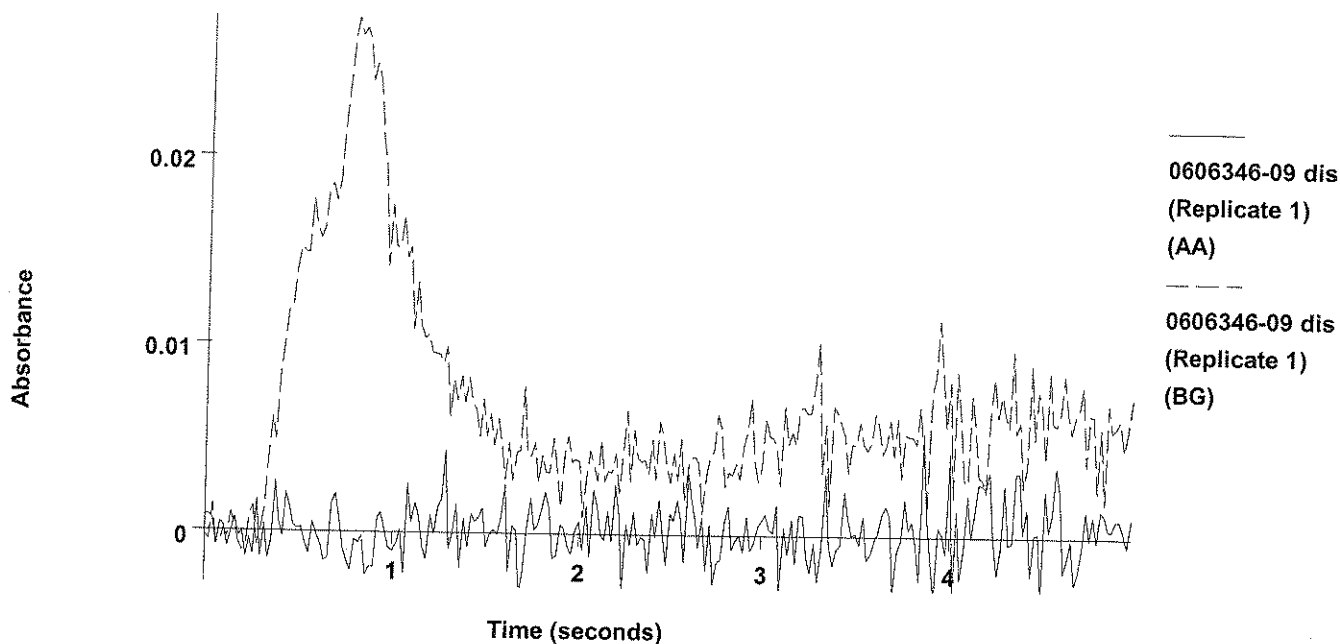
2	-0.4	-0.4	0.0002	-0.0002	0.0040	0.0332	0.0282	09:09:31	Yes
Mean:	-0.1	-0.1	0.0007						
SD :	0.47	0.47	0.0008						
%RSD:	751	751	107.34						

*Handwritten signature or initials*

=====  
 Element: Sb    Seq. No.: 467    AS Loc.: 34    Date: 06/28/2006  
 Sample ID: 0606346-09 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 34  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0012	0.0008	0.0055	0.0343	0.0274	09:12:21	Yes

Sb



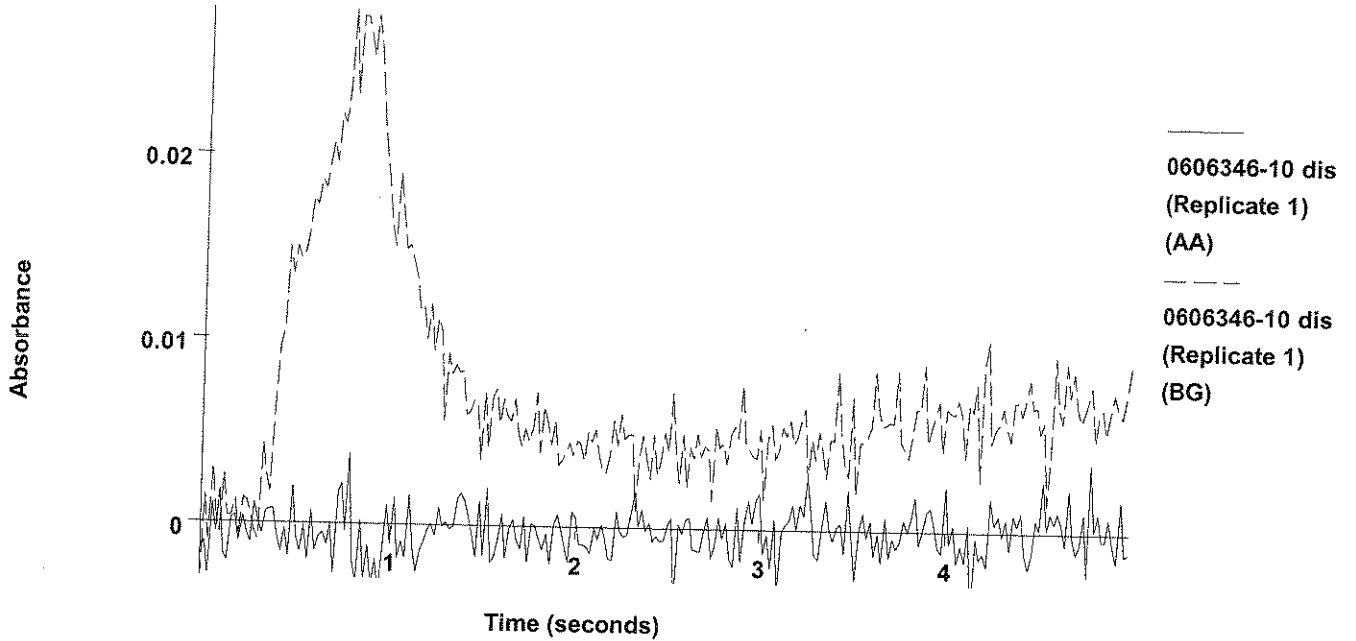
2	0.9	0.9	0.0022	0.0019	0.0046	0.0345	0.0267	09:15:12	Yes
Mean:	0.5	0.5	0.0017						
SD :	0.44	0.44	0.0007						
%RSD:	81.8	81.8	42.56						

*PD*

=====  
 Element: Sb    Seq. No.: 468    AS Loc.: 35    Date: 06/28/2006  
 Sample ID: 0606346-10 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 35  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-1.1	-1.1	-0.0009	-0.0013	0.0038	0.0365	0.0278	09:18:02	Yes

Sb



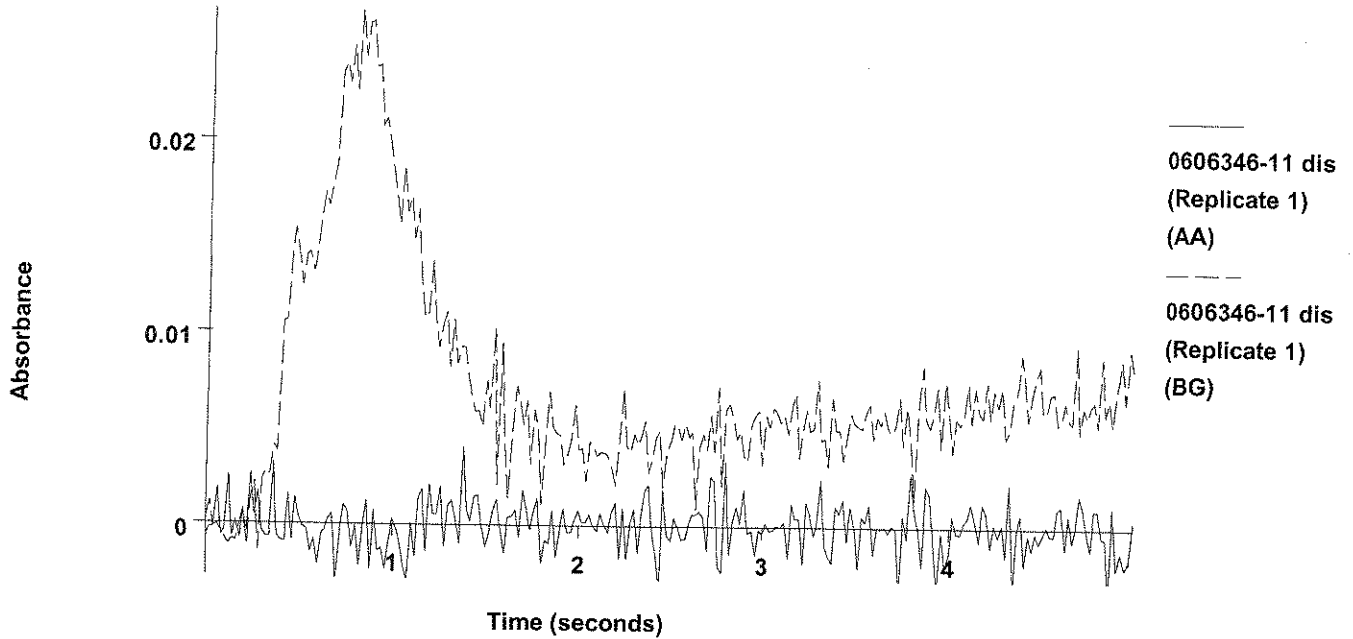
2	-0.5	-0.5	-0.0001	-0.0004	0.0046	0.0341	0.0274	09:20:52	Yes
Mean:	-0.8	-0.8	-0.0005						
SD :	0.37	0.37	0.0006						
%RSD:	46.1	46.1	120.55						

=====  
 Element: Sb    Seq. No.: 469    AS Loc.: 36    Date: 06/28/2006  
 Sample ID: 0606346-11 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 36  
 =====

*Handwritten signature*

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	0.0001	-0.0002	0.0041	0.0363	0.0268	09:23:42	Yes

Sb



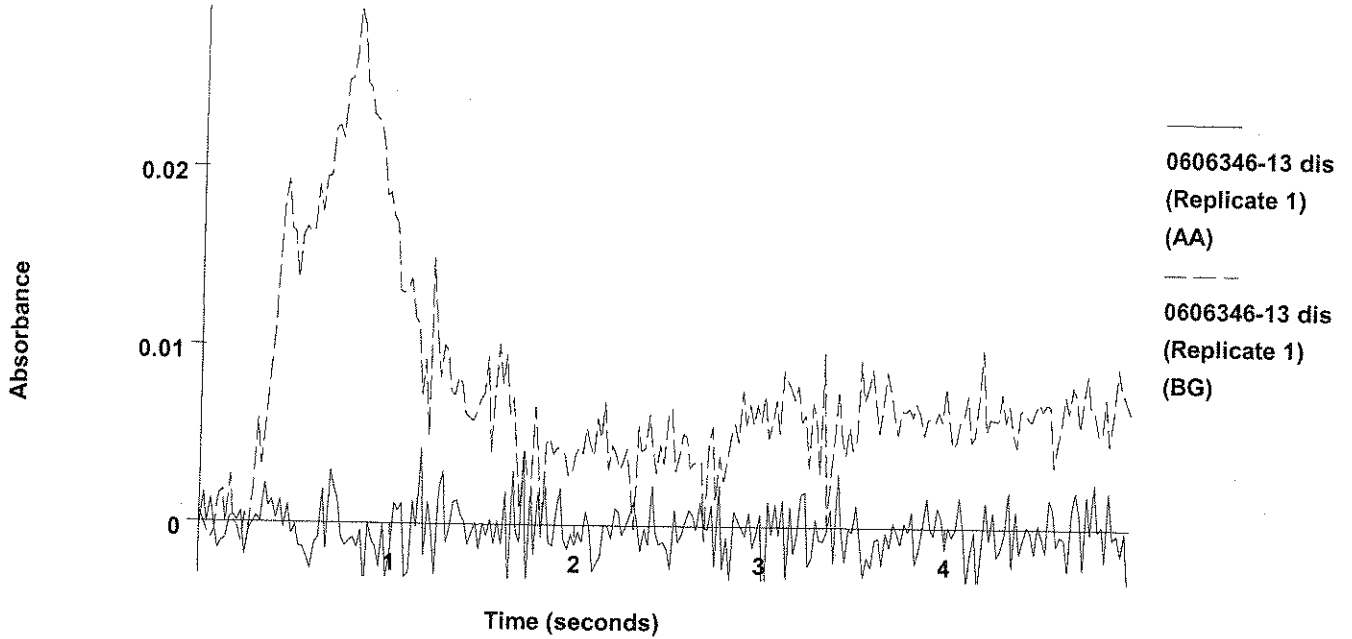
2	-0.9	-0.9	-0.0006	-0.0010	0.0035	0.0346	0.0304	09:26:33	Yes
Mean:	-0.6	-0.6	-0.0002						
SD :	0.33	0.33	0.0005						
%RSD:	51.8	51.8	229.17						

*Handwritten signature*

=====  
 Element: Sb    Seq. No.: 470    AS Loc.: 37    Date: 06/28/2006  
 Sample ID: 0606346-13 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 37  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-1.1	-1.1	-0.0009	-0.0013	0.0043	0.0377	0.0289	09:29:23	Yes

Sb



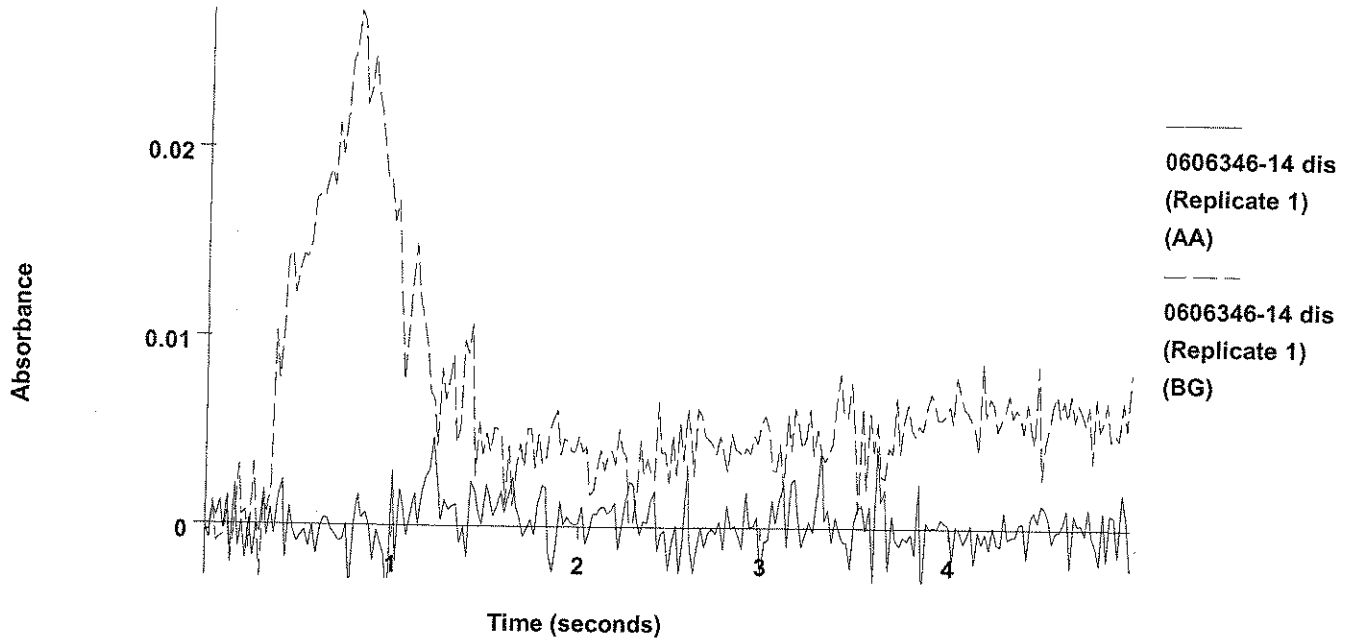
2	-0.3	-0.3	0.0003	-0.0001	0.0047	0.0385	0.0309	09:32:13	Yes
Mean:	-0.7	-0.7	-0.0003						
SD :	0.52	0.52	0.0008						
%RSD:	73.9	73.9	261.22						

*Handwritten mark resembling a stylized 'D' or '10'.*

=====  
 Element: Sb    Seq. No.: 471    AS Loc.: 38    Date: 06/28/2006  
 Sample ID: 0606346-14 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 38  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0012	0.0008	0.0047	0.0331	0.0272	09:35:03	Yes

**Sb**



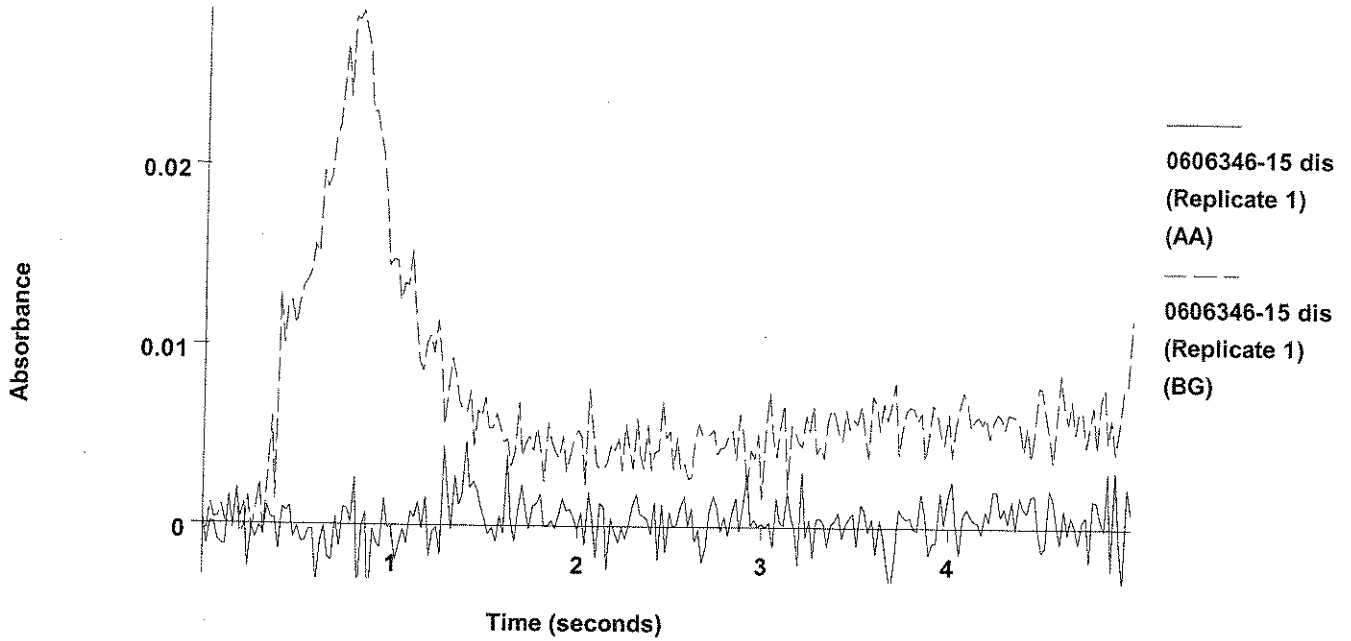
2	0.2	0.2	0.0011	0.0007	0.0043	0.0344	0.0269	09:37:54	Yes
Mean:	0.2	0.2	0.0011						
SD :	0.03	0.03	0.0000						
%RSD:	15.9	15.9	4.35						

*W*

=====  
 Element: Sb    Seq. No.: 472    AS Loc.: 39    Date: 06/28/2006  
 Sample ID: 0606346-15 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 39  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	0.0016	0.0013	0.0047	0.0353	0.0286	09:40:44	Yes

Sb



2	0.0	0.0	0.0008	0.0004	0.0040	0.0350	0.0279	09:43:34	Yes
Mean:	0.2	0.2	0.0012						
SD :	0.35	0.35	0.0006						
%RSD:	151	151	48.01						

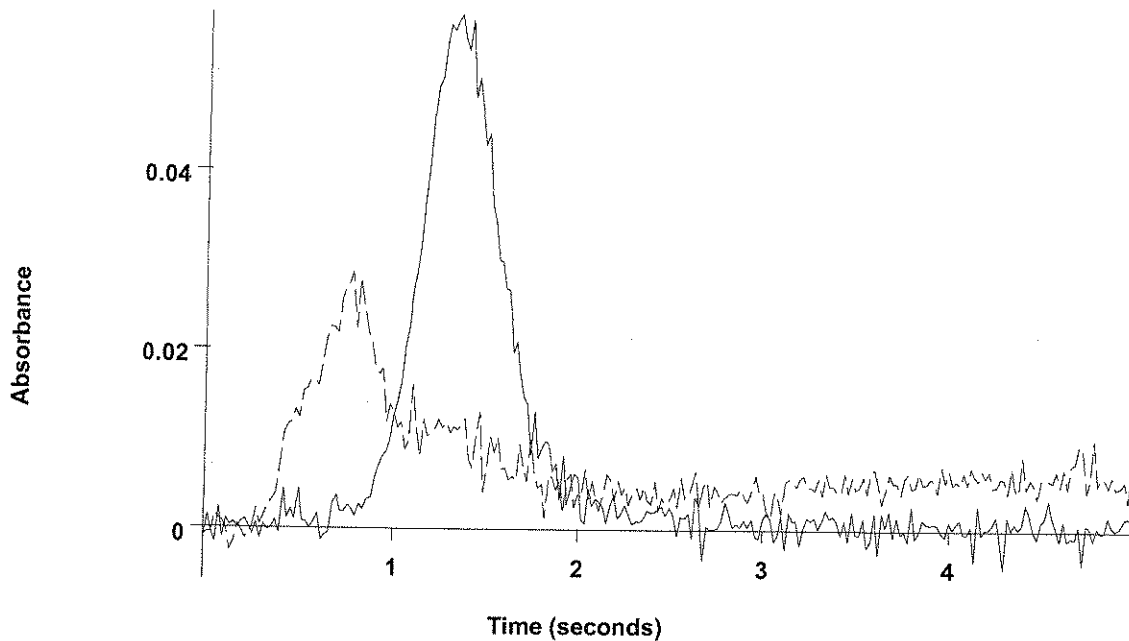
*Handwritten signature or initials*

=====  
 Element: Sb    Seq. No.: 473    AS Loc.: 39    Date: 06/28/2006  
 Sample ID: 0606346-15 dis  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 39

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.7	19.7	0.0332	0.0328	0.0574	0.0349	0.0286	09:46:33	Yes



Sb



0606346-15 dis  
(Replicate 1)  
(AA)

0606346-15 dis  
(Replicate 1)  
(BG)

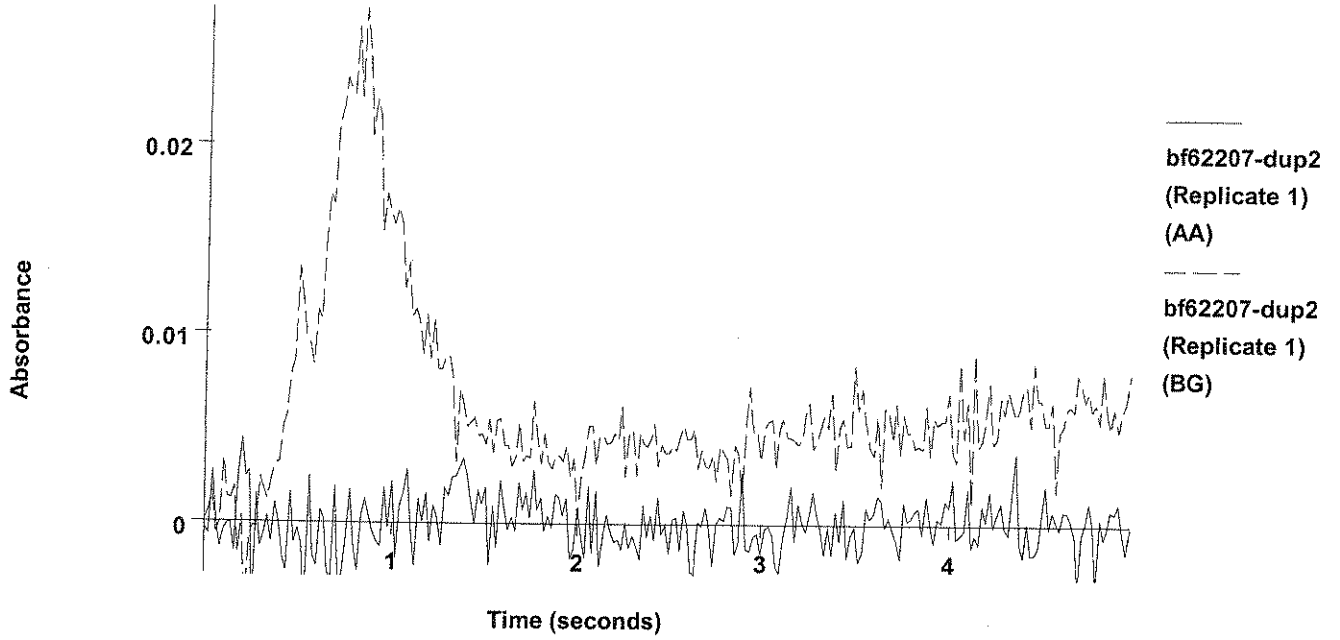
.2	21.3	21.3	0.0356	0.0353	0.0591	0.0344	0.0274	09:49:32	Yes
Mean:	20.5	20.5	0.0344						
SD :	1.07	1.07	0.0018						
%RSD:	5.23	5.23	5.11						

Recovery for Sb = 102.5 % within 85 % to 115 %

=====  
 Element: Sb    Seq. No.: 474    AS Loc.: 40    Date: 06/28/2006  
 Sample ID: bf62207-dup2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 40  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	0.0004	0.0001	0.0044	0.0316	0.0272	09:52:22	Yes

Sb



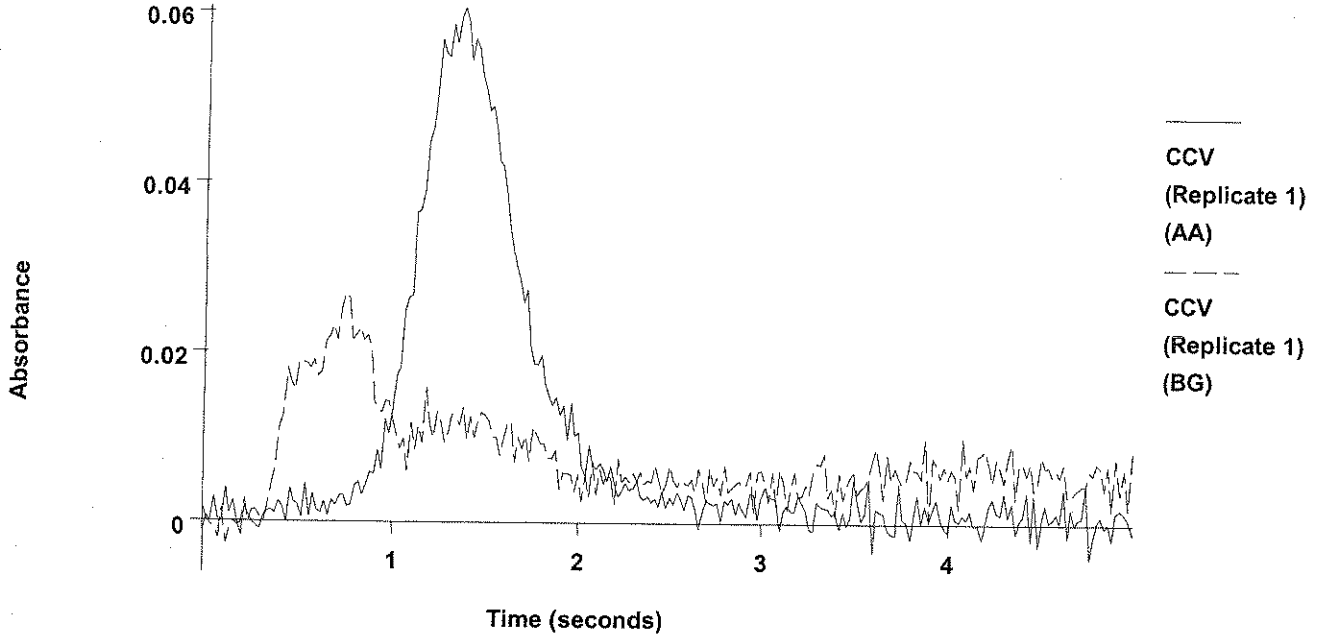
2	0.3	0.3	0.0013	0.0009	0.0047	0.0326	0.0262	09:55:12	Yes
Mean:	0.0	0.0	0.0008						
SD :	0.36	0.36	0.0006						
%RSD:	4130	4130	71.75						

*ND*

=====  
 Element: Sb    Seq. No.: 475    AS Loc.: 126    Date: 06/28/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.1	26.1	0.0436	0.0432	0.0606	0.0378	0.0269	09:58:04	Yes

Sb



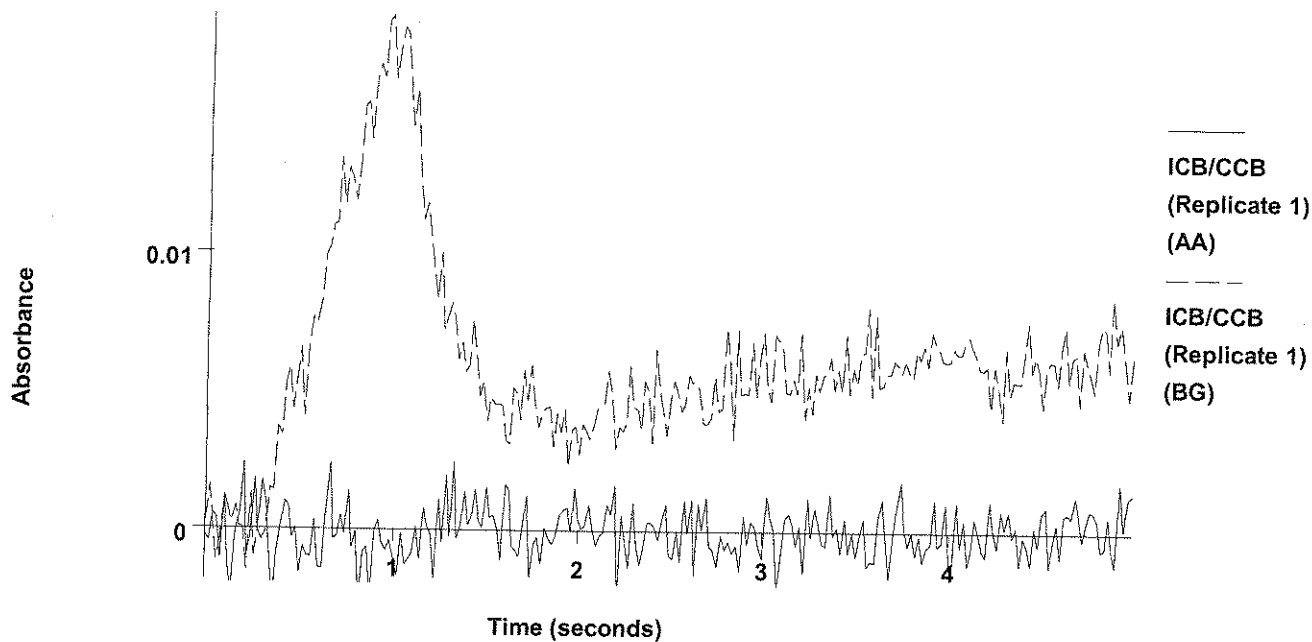
.2	25.6	25.6	0.0428	0.0424	0.0590	0.0349	0.0249	10:00:59	Yes
Mean:	25.9	25.9	0.0432						
SD :	0.35	0.35	0.0006						
%RSD:	1.34	1.34	1.31	✓					

QC value within specified limits.

=====  
 Element: Sb    Seq. No.: 476    AS Loc.: 148    Date: 06/28/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	0.0001	-0.0003	0.0025	0.0309	0.0186	10:03:51	Yes

Sb

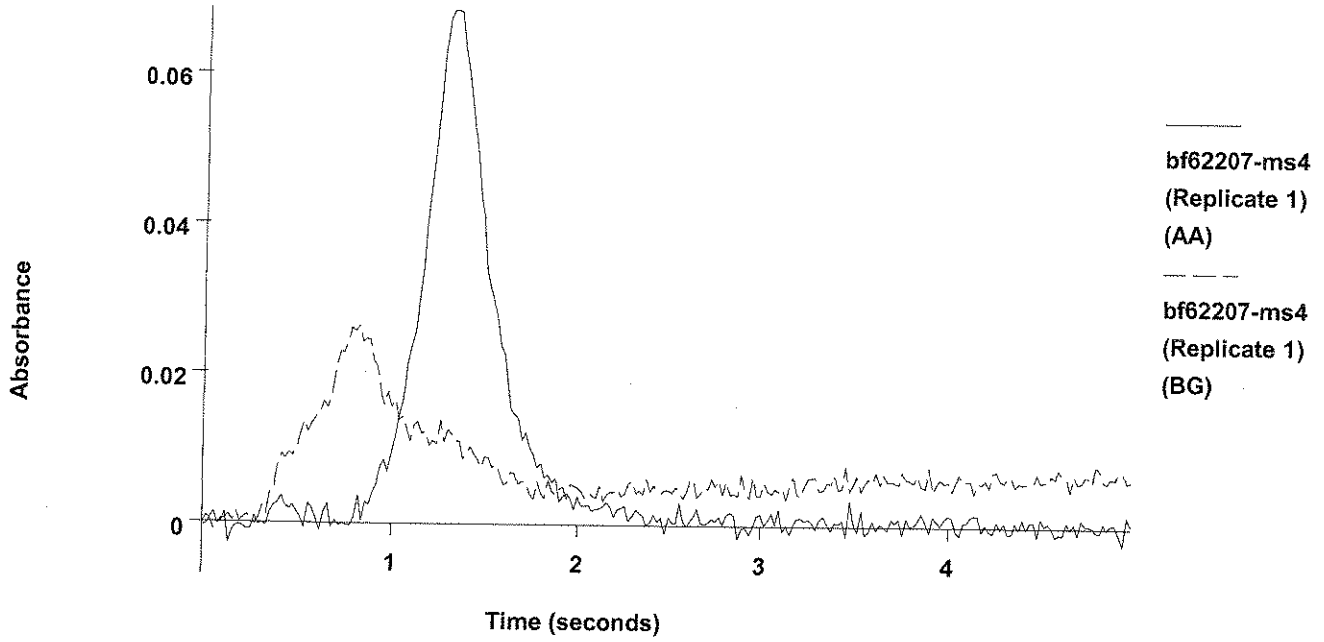


2            -0.4        -0.4        0.0002   -0.0001    0.0025    0.0270    0.0178   10:06:40   Yes  
 Mean:       -0.4        -0.4        0.0001  
 SD :        0.05        0.05        0.0001  
 %RSD:       12.5        12.5        57.38    ✓  
 QC value within specified limits.

=====  
 Element: Sb    Seq. No.: 477    AS Loc.: 41    Date: 06/28/2006  
 Sample ID: bf62207-ms4  
 µL dispensed: 10 from 148, 5 from 147, 15 from 41  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.0	19.0	0.0319	0.0316	0.0686	0.0362	0.0264	10:09:28	Yes

Sb



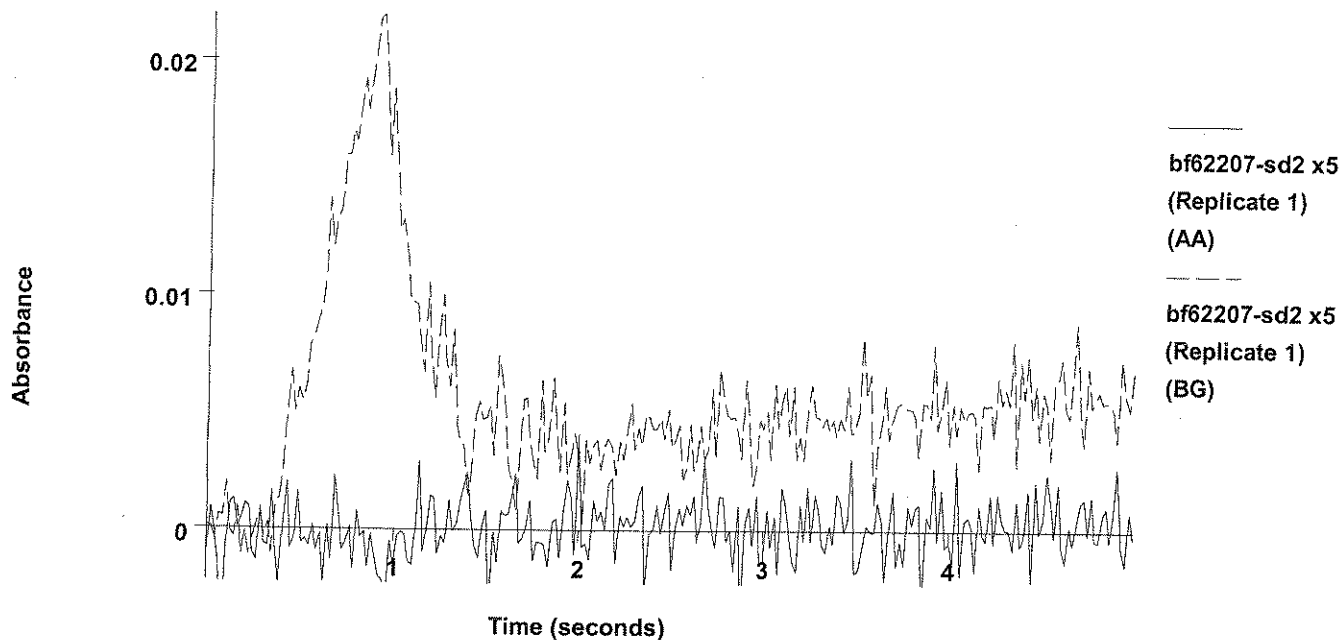
2	19.9	19.9	0.0334	0.0330	0.0666	0.0325	0.0291	10:12:19	Yes
Mean:	19.4	19.4	0.0327						
SD :	0.61	0.61	0.0010						
%RSD:	3.13	3.13	3.06						

97%

=====  
 Element: Sb    Seq. No.: 478    AS Loc.: 42    Date: 06/28/2006  
 Sample ID: bf62207-sd2 x5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 42  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	0.0007	0.0004	0.0041	0.0282	0.0219	10:15:08	Yes

Sb

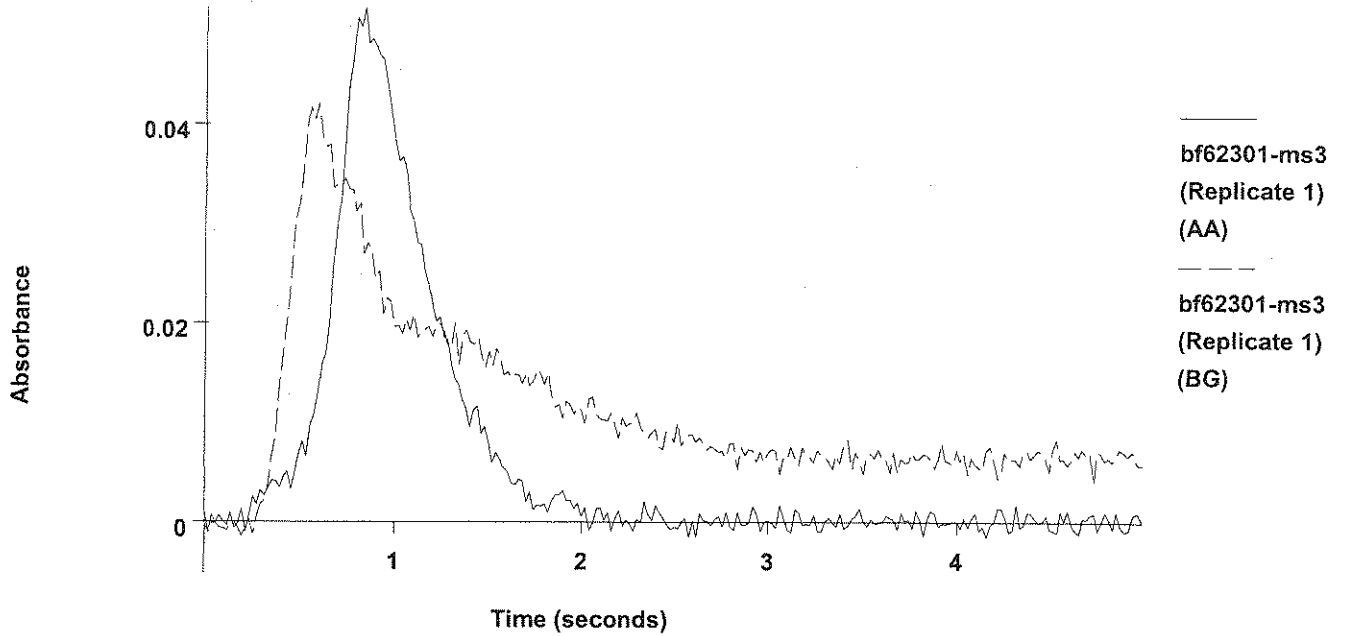


2	0.3	0.3	0.0013	0.0010	0.0040	0.0313	0.0235	10:17:58	Yes
Mean:	0.1	0.1	0.0010						
SD :	0.26	0.26	0.0004						
%RSD:	189	189	40.72						

=====  
 Element: Sb    Seq. No.: 479    AS Loc.: 43    Date: 06/28/2006  
 Sample ID: bf62301-blk1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 43  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.8	0.8	0.0021	0.0017	0.0056	0.0289	0.0197	10:20:47	Yes

Sb



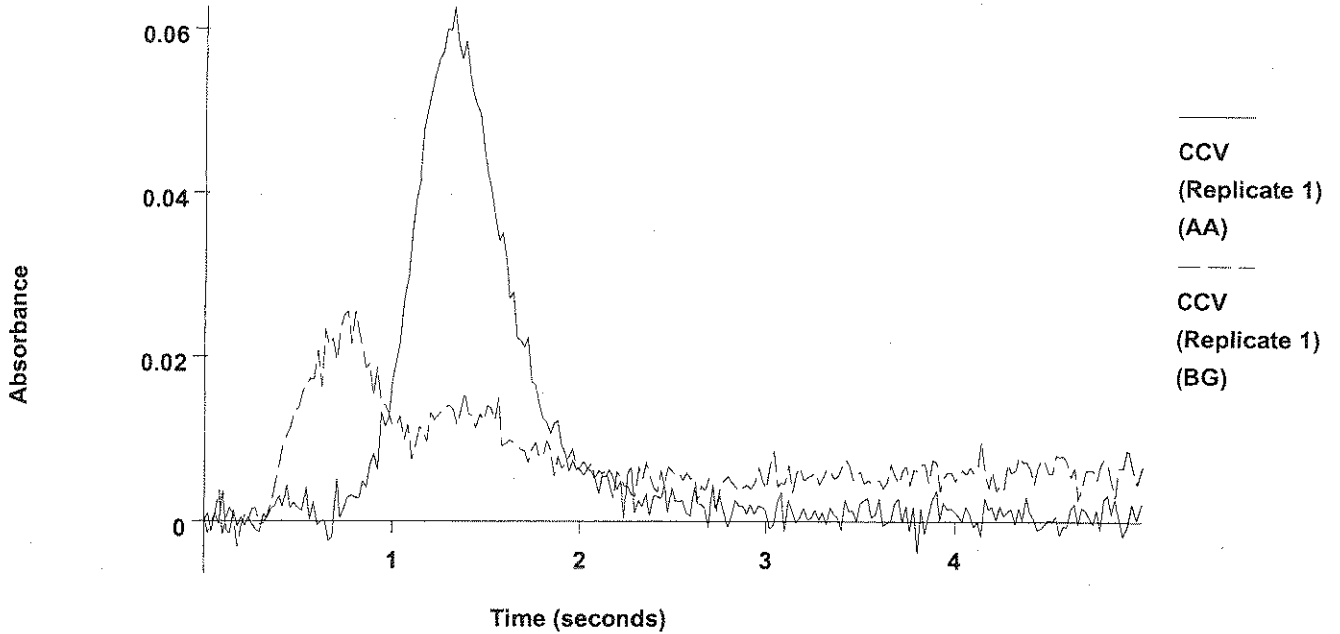
2	18.1	18.1	0.0305	0.0302	0.0542	0.0554	0.0418	11:15:14	Yes
Mean:	17.9	17.9	0.0302						
SD :	0.28	0.28	0.0005						
%RSD:	1.54	1.54	1.50						

90%

=====  
 Element: Sb    Seq. No.: 489    AS Loc.: 126    Date: 06/28/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.2	24.2	0.0405	0.0401	0.0626	0.0383	0.0255	11:18:05	Yes

Sb



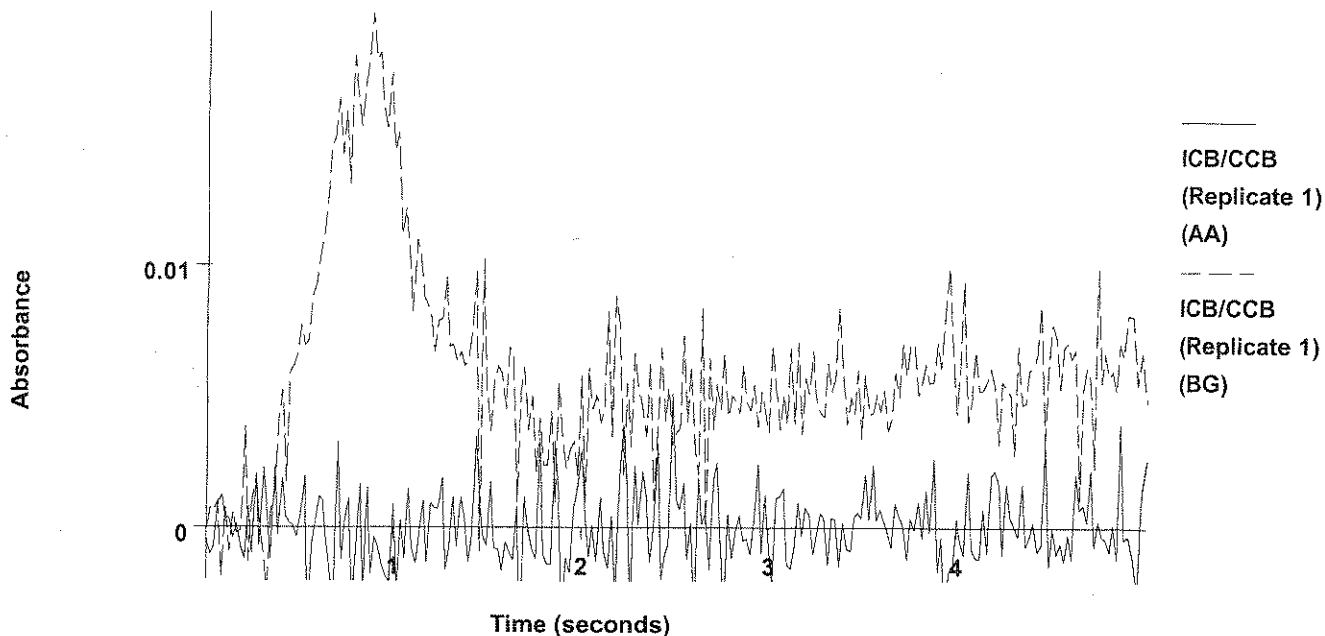
2            26.2            26.2            0.0438    0.0434    0.0600    0.0361    0.0259    11:20:59    Yes  
 Mean:       25.2            25.2            0.0421  
 SD :         1.42            1.42            0.0023  
 %RSD:       5.61            5.61            5.51 ✓  
 QC value within specified limits.

=====  
 Element: Sb    Seq. No.: 490    AS Loc.: 148    Date: 06/28/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	0.0004	0.0001	0.0051	0.0303	0.0197	11:23:50	Yes



Sb



2	0.0	0.0	0.0008	0.0004	0.0034	0.0305	0.0181	11:26:39	Yes
Mean:	-0.1	-0.1	0.0006						
SD :	0.16	0.16	0.0003						
%RSD:	119	119	42.66						✓

QC value within specified limits.

=====  
 Element: Sb    Seq. No.: 491    AS Loc.: 53    Date: 06/28/2006  
 Sample ID: bf62301-sd2 x5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 53  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	0.0006	0.0002	0.0052	0.0356	0.0272	11:29:28	Yes

## ANALYSIS SEQUENCE

BPG0207

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0207-CAL1	QC		1		6F28044		
BPG0207-CAL2	QC		2		6F28010		
BPG0207-CAL3	QC		3		6F28011		
BPG0207-CAL4	QC		4		6F28012		
BPG0207-CAL5	QC		5		6F28013		
BPG0207-ICV1	QC		6		6F28012		
BPG0207-SCV1	QC		7		6F28014		
BPG0207-ICB1	QC		8				
BF62206-DUP7	QC		9				
0606346-05	Pb: ppm Diss Lead 7421	G	10				MACTEC Engineering & Consulting, In
0606346-06	Pb: ppm Diss Lead 7421	G	11				MACTEC Engineering & Consulting, In
BPG0207-CCB1	QC		12				
BPG0207-CCV1	QC		13		6F28012		
BF62302-BLK4	QC		14				
BF62302-DUP4	QC		15				

**ESS LABORATORY**  
**GFAA Data Review Check List**

SIF Method: Pb Tl<sub>2</sub> Tl<sub>5</sub> As Sb see notes Run Date: 6/28/06  
 Project Number(s): 06346-05d, 06d, 375, 361, 373, 374, 360, 383, 405, 428, 430, 429  
 Batch Number (s): 0628064A  
 SOP NO. 30\_2009

Review Item	Yes (X)	No (X)	N/A (X)
1. Does the cal curve consist of four Calibration Standards including a blank and is its correlation within QC limits ( $\geq 0.995$ )?	X		
2. Is the low calibration standard at the reporting limit?	X		
3. If the low standard is above the reporting limit, is a CRI analyzed at the beginning of the run? Does the recovery meet QC limits(80-120%)?			X
4. Is the midpoint calibration standard reanalyzed immediately after the curve and is it within QC limits of 90-110% ( $\pm 5\%$ for 200.9)?	X		
5. Is the ICV from a second source and is its recovery within QC limits (90-110%)	X		
6. Is the mid-point calibration standard re-analyzed every 10 samples and at the end of the run and are its recoveries within QC limits (90-110%)?		X	
7. Is the CCB analyzed at beginning, after every 10 samples and at end of the run and are its recoveries within QC limits ( $< 2 \times MDL$ )?	X		
8. Are the method blank recoveries within QC limits?		X	
9. Are the LCS and ERA recoveries within QC limits (LCS: 80-120% for 7000, 85-115% for 200.9, ERA see COA)?	X		
10. Are matrix dups run at desired frequency (1 per 10 samples or per analytical batch) and are RPD's within QC limits ( $< 20\%$ )?	X		
11. Are matrix spikes run at desired frequency frequency (1 per 10 samples or per analytical batch) and are recoveries within QC limits (80-120%)?	X		
12. Are all samples with concentrations $>$ the highest calibration standard diluted and reanalyzed?	X		
13. Has the serial dilution been analyzed at the required frequency (once per analytical batch) and are results within criterion ( $\pm 10\%$ RPD)?	X		
14. Is the batch post digestion spike within QC limits (85-115%)?	X		
15. Are all sample hold times met?	X		
16. Are all non-conformances included and noted?	X		
17. Is the correct methodology used for sample prep and analysis?	X		
18. Are all calculations checked?	X		
19. Did analyst sign/date appropriate printouts and report sheets?	X		
20. Are all samples located in the correct auto-sampler locations?	X		

Comments on any "No" response:  
Pb - Blank hits redigest all smp w/ hits  
TL<sub>2</sub> - OK, TL<sub>5</sub> - CCUs out high - smps ND  
As - 06374-03 X15  
Sb - OK

Analyst: SP Date: 6/30/06 2<sup>nd</sup> Rvw: JW Date: 6/30/06 (B)

## Autosampler Loading List

Sample Information File: 062806YA.SIF

Methods: Pb 2 <sup>A</sup> Tl 5 As 5 Sb 5 ~~Tl 2~~ <sup>SW</sup> <sub>6/29/06</sub>

Location	Elements	Solution
1	Pb	Sample: BF62206-DUP2
2	Pb	Sample: 0606346-05DIS
3	Pb	Sample: 0606346-06DIS
4	Pb	Sample: BF62301-BLK1
5	Pb	Sample: BF62301-BS2
6	Pb	Sample: BF62301-BSD2
7	Pb	Sample: BF62302-BLK1
8	Pb	Sample: BF62302-DUP1
9	Pb	Sample: 0606375-01
10	Pb	Sample: BF62403-BLK1
11	Pb	Sample: BF62403-BS2
12	Pb	Sample: BF62403-BSD2
13	Pb	Sample: 0606407-01
14	Pb	Sample: 0606407-02
15	Pb	Sample: BF62403-DUP1
16	Pb	Sample: BF62403-MS3
17	Pb	Sample: BF62403-SD1
18	Pb	Sample: 0606407-03
19	Pb	Sample: 0606407-01DIS
20	Pb	Sample: 0606407-02DIS
21	Pb	Sample: 0606407-03DIS
22	Pb	Sample: 0606382-01
23	Tl, As	Sample: BF62317-BLK1
24	Tl, As	Sample: BF62317-BS1X20
25	Tl, As	Sample: BF62317-BSD1X20
26	Tl, As	Sample: BF62317-SRM1X50
27	Tl, As	Sample: 0606361-01X5
28	As, Tl	Sample: 0606361-02X5
29	Tl, As	Sample: 0606373-01X5
30	Tl, As	Sample: 0606373-02X5
31	Tl, As	Sample: 0606373-03X5
32	Tl, As	Sample: 0606373-04X5
33	Tl, As	Sample: 0606373-05X5
34	Tl, As	Sample: 0606373-06X5
35	Tl, As	Sample: 0606373-07X5
36	Tl, As	Sample: 0606373-08X5
37	Tl, As	Sample: BF62317-DUPLX5
38	Tl, As	Sample: BF62317-MS1X20
39	Tl, As	Sample: BF62317-SD1X25
40	Tl, As	Sample: 0606373-09X5
41	Tl, As	Sample: 0606373-10X5
42	Tl, As	Sample: 0606373-19X5
43	Tl, As	Sample: 0606373-12X5
44	Tl, As	Sample: 0606373-13X5
45	Tl, As	Sample: 0606373-14X5
46	Tl, As	Sample: 0606373-15X5
47	Tl, As	Sample: 0606373-16X5
48	Tl, As	Sample: 0606373-17X5
49	Tl, As	Sample: 0606373-18X5
50	Tl, As	Sample: BF62317-DUP2X5
51	Tl, As	Sample: BF62317-MS2X20
52	Tl, As	Sample: BF62317-SD2X25
53	Tl, As	Sample: BF62320-BLK1
54	Tl, As	Sample: BF62320-BS1X20
55	Tl, As	Sample: BF62320-BSD1X20
56	Tl, As	Sample: BF62320-SRM1X50
57	Tl, As	Sample: 0606374-01X5
58	Tl, As	Sample: 0606374-02X5
59	Tl, As	Sample: 0606374-03X5
60	Tl, As	Sample: 0606374-04X5
61	Tl, As	Sample: 0606374-05X5

As taken  
from loc 35-61  
8/4/2006

420

62	Tl,As	Sample: 0606374-06X5
63	Tl,As	Sample: 0606374-07X5
64	Tl,As	Sample: 0606374-08X5
65	Tl,As	Sample: 0606374-09X5
66	Tl,As	Sample: 0606374-10X5
67	Tl,As	Sample: BF62320-DUP1X5
68	Tl,As	Sample: BF62320-MS1X20
69	Tl,As	Sample: BF62320-SD1X25
70	Tl,As	Sample: 0606374-11X5
71	Tl,As	Sample: 0606374-12X5
72	Tl,As	Sample: 0606374-13X5
73	Tl,As	Sample: 0606374-14X5
74	Tl,As	Sample: BF62320-DUP2X5
75	Tl,As	Sample: BF62320-MS2X20
76	Tl,As	Sample: BF62320-SD2X25
77	Tl,As	Sample: 0606374-15X5
78	Tl,As	Sample: 0606374-16X5
79	Tl,As	Sample: 0606373-20X5
80	Tl,As	Sample: 0606373-21X5
81	Tl,As	Sample: BF62713-BLK1
82	Tl,As	Sample: BF62713-BS1X20
83	Tl,As	Sample: BF62713-BSD1X20
84	Tl,As	Sample: BF62713-SRM1X50
85	Tl,As	Sample: 0606360-01X5
86	Tl,As	Sample: BF62617-BLK1
87	Tl,As	Sample: BF62617-BS1X20
88	Tl,As	Sample: BF62617-BSD1X20
89	Tl,As	Sample: BF62617-SRM1X50
90	Tl,As	Sample: 0606383-01X5
91	Tl,As	Sample: 0606383-02X5
92	Tl,As	Sample: 0606383-03X5
93	Tl,As	Sample: 0606383-04X5
94	Tl,As	Sample: 0606383-05X5
95	Tl,As	Sample: 0606383-06X5
96	Tl,As	Sample: 0606383-07X5
97	Tl,As	Sample: 0606383-08X5
98	Tl,As	Sample: 0606383-09X5
99	Tl,As	Sample: 0606383-10X5
100	Tl,As	Sample: 0606383-11X5
101	Tl,As	Sample: BF62617-DUP1X5
102	Tl,As	Sample: BF62617-MS1X20
103	Tl,As	Sample: BF62617-SD1X25
104	Tl,As	Sample: 0606383-12X5
105	Tl,As	Sample: 0606383-13X5
106	Tl,As	Sample: BF62617-DUP2X5
107	Tl,As	Sample: BF62617-MS2X20
108	Tl,As	Sample: BF62617-SD2X25
109	Tl,As	Sample: 0606383-14X5
110	Tl,As	Sample: 0606405-01X5
111	Tl,As	Sample: 0606405-02X5
112	Tl,As	Sample: 0606405-03X5
113	Tl,As	Sample: 0606405-04X5
114	Pb,As,Sb,Tl	Sample: BF62705-BLK1
115	Pb,As,Sb,Tl	Sample: BF62705-BS2
116	Pb,As,Sb,Tl	Sample: BF62705-BSD2
117	Pb,As	Sample: 0606428-01
118	Pb,As,Sb,Tl	Sample: 0606430-01
119	Pb,As,Sb,Tl	Sample: 0606430-02
120	Pb,As,Sb,Tl	Sample: BF62705-BLK2
121	Pb,Tl,As,Sb	Stock Standard: 5.0 µg/L
122	Pb,As,Sb,Tl	Sample: 0606429-01DIS
123	Pb,As,Sb,Tl	Sample: 0606429-02DIS
124	Pb,Tl,As,Sb	Stock Standard: 10.0 µg/L
	Tl	STD 3: 10.0000 µg/L
	Tl	CCV: 10.0000 µg/L
125	Pb,As,Sb,Tl	Sample: 0606429-03DIS
126	Pb,Tl,As,Sb	421k Standard: 25.0 µg/L

	Pb, Tl, As, Sb	STD 3: 25.0000 µg/L
	Pb, Tl, As, Sb	CCV: 25.0000 µg/L
127	Pb, As, Sb, Tl	Sample: 0606429-04DIS
128	Pb, As, Sb, Tl	Sample: 0606429-05DIS
129	Pb, Tl, As, Sb	Stock Standard: 50.0 µg/L
130	Pb, As, Sb, Tl	Sample: 0606430-01DIS
131	Pb, Tl, As, Sb	Recovery Stock: 50.0 µg/L
132	Pb, As, Sb, Tl	Sample: 0606430-02DIS
133	Pb, As, Sb, Tl	Sample: BF62705-DUP2
134	Pb, Tl, As, Sb	ICV: 25.0000 µg/L
135	Pb, As, Sb, Tl	Sample: BF62705-MS4
136	Pb, Tl, As, Sb	CRA 2: 2.0000 µg/L
	Tl	Stock Standard: 2.0 µg/L
137	Pb, As, Sb, Tl	Sample: BF62705-SD2X5
139	Tl	ICV: 10.0000 µg/L
141	Pb	Standard 0
	Pb	ICB/CCB: 0.0000 µg/L
	Pb	Diluent
146	Pb	Modifier 2
147	Tl, As, Sb	Modifier 1
148	Tl, As, Sb	Standard 0
	Tl, As, Sb	ICB/CCB: 0.0000 µg/L
	Tl, As, Sb	Diluent

Method Name: Pb 2  
 Method Description: Pb  
 Element: Pb

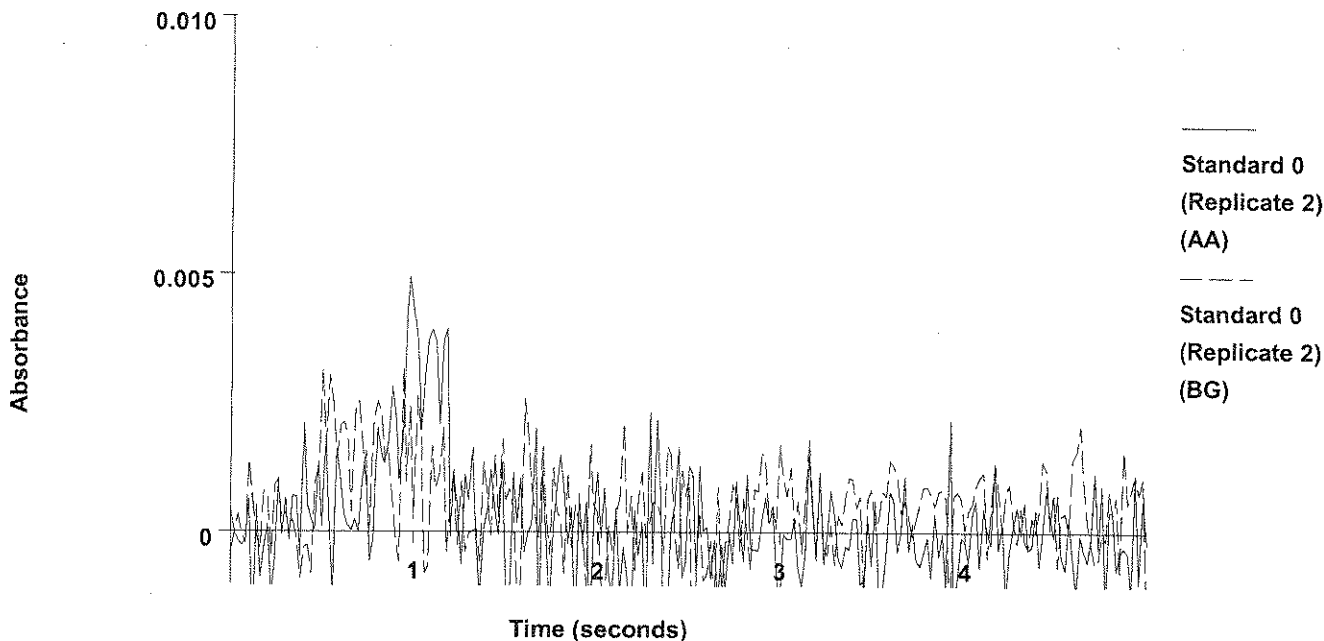
Date: 06/28/2006  
 Technique: Furnace  
 Calibration Type:  
 Pb, Calc. Intercept : Linear  
 Wavelength: 283.3 nm  
 Energy: 100  
 Slit Width: 0.7  
 Lamp Current: 10 mA  
 Sample Info Name: 062806YA.SIF

Results Data Set Name: 062806YAD

Element: Pb Seq. No.: 1 AS Loc.: 141 Date: 06/28/2006  
 Sample ID: Standard 0  
 µL dispensed: 10 from 141, 5 from 146, 15 from 141

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0016	0.0016	0.0057	0.0044	0.0039	04:08:11	Yes
2			0.0011	0.0011	0.0049	0.0026	0.0032	04:11:03	Yes

Pb



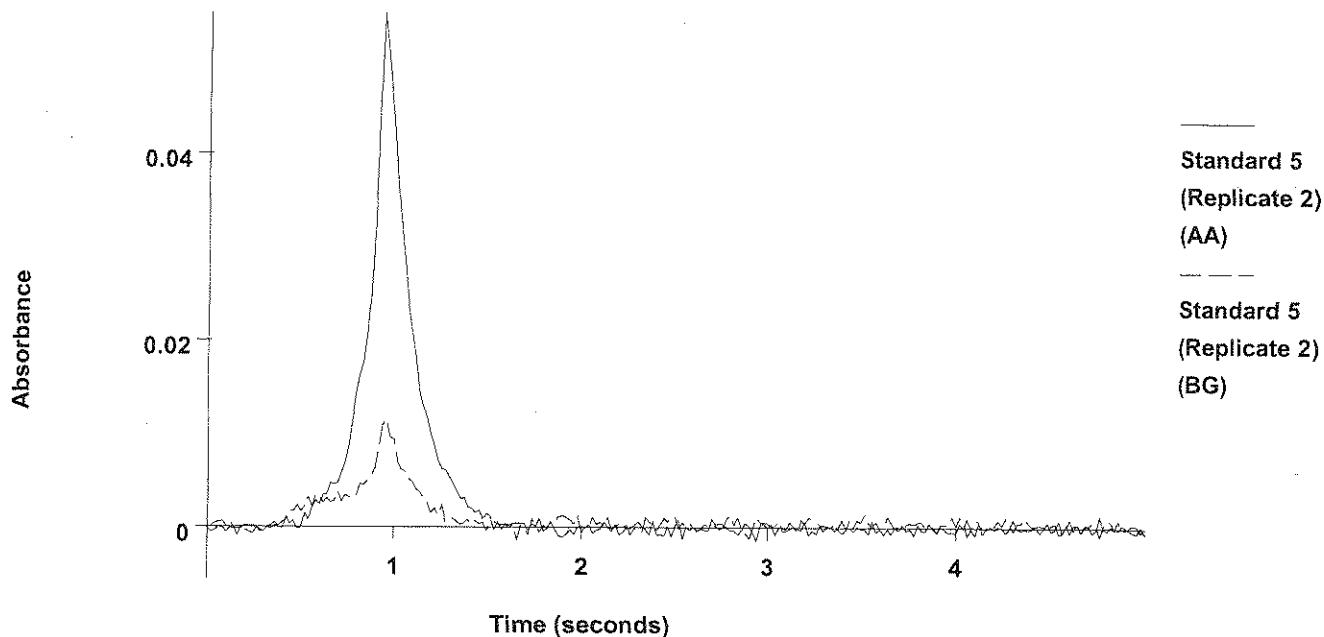
Mean: 0.0013  
 SD : 0.0003  
 %RSD: 23.99  
 Auto-zero performed.

Element: Pb Seq. No.: 2 AS Loc.: 121 Date: 06/28/2006  
 Sample ID: Standard 5  
 µL dispensed: 10 from 141, 5 from 146, 15 from 121

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0125	0.0138	0.0539	0.0062	0.0118	04:14:23	Yes
2			0.0123	0.0136	0.0550	0.0046	0.0114	04:17:16	Yes

423

Pb



Mean: 0.0124  
 SD : 0.0001  
 %RSD: 1.08

[Pb] Standard number 1 applied. [5.0]

Correlation Coefficient: 1.00000

Slope: 0.00248

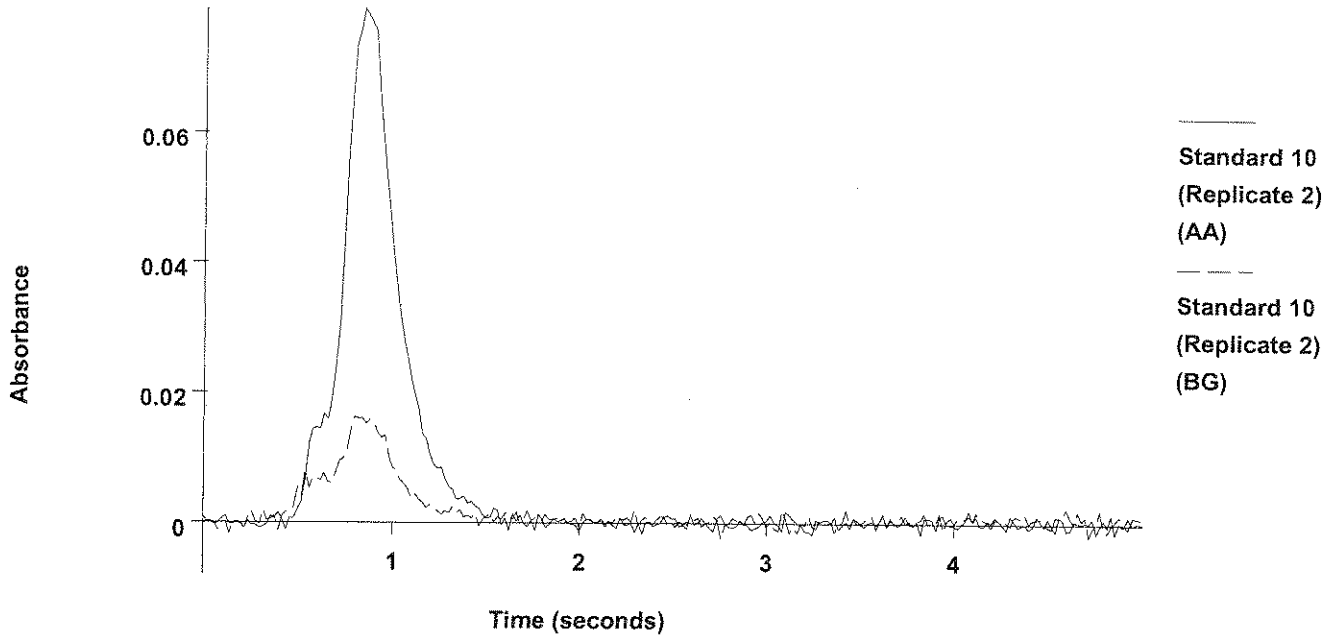
Intercept : 0.00000

=====  
 Element: Pb Seq. No.: 3 AS Loc.: 124 Date: 06/28/2006  
 Sample ID: Standard 10  
 µL dispensed: 10 from 141, 5 from 146, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0266	0.0279	0.1073	0.0092	0.0220	04:20:37	Yes
2			0.0262	0.0275	0.0791	0.0083	0.0162	04:23:30	Yes



Pb



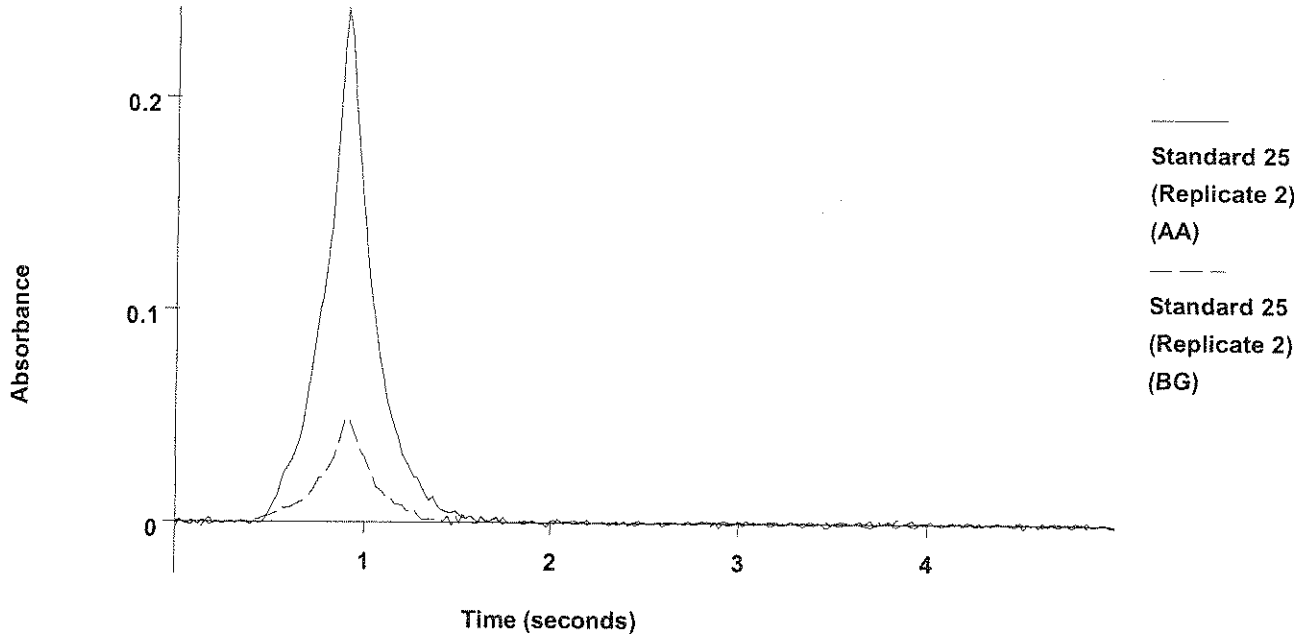
Mean: 0.0264  
 SD : 0.0003  
 %RSD: 1.01  
 [Pb] Standard number 2 applied. [10.0]  
 Correlation Coefficient: 0.99939  
 Intercept : -0.00027

Slope: 0.00264

=====  
 Element: Pb Seq. No.: 4 AS Loc.: 126 Date: 06/28/2006  
 Sample ID: Standard 25  
 µL dispensed: 10 from 141, 5 from 146, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0663	0.0676	0.2291	0.0168	0.0474	04:26:50	Yes
2			0.0684	0.0698	0.2423	0.0157	0.0491	04:29:43	Yes

Pb

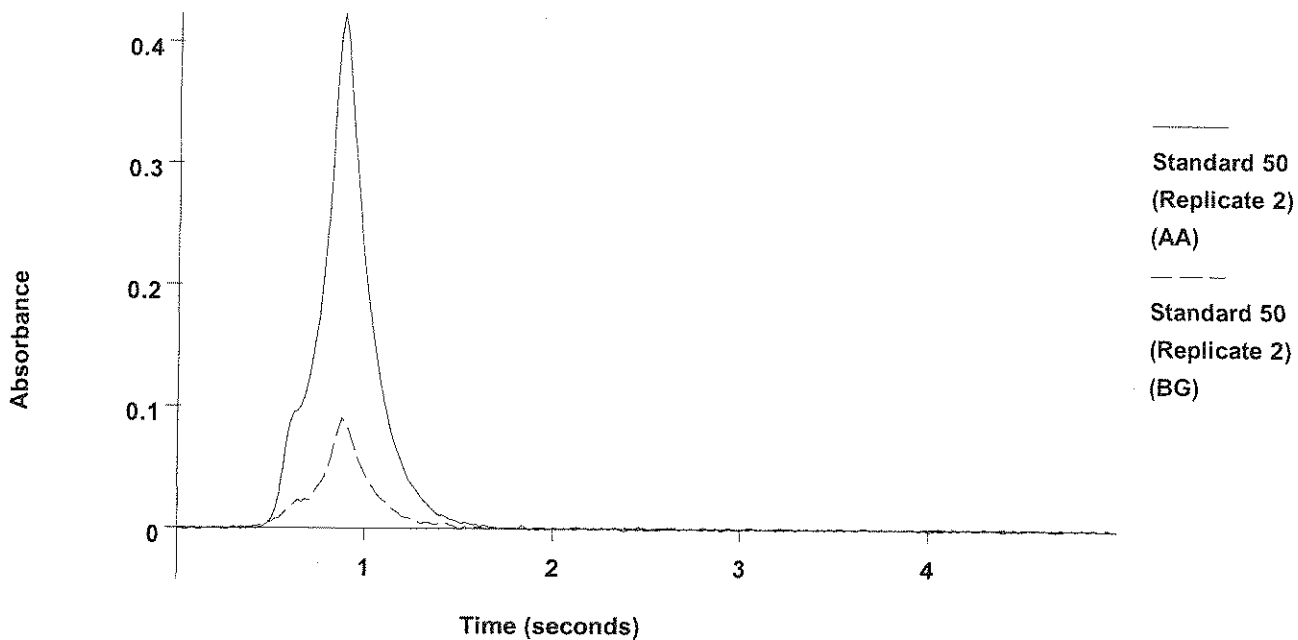


Mean: 0.0674  
 SD : 0.0015  
 %RSD: 2.26  
 [Pb] Standard number 3 applied. [25.0]  
 Correlation Coefficient: 0.99986  
 Intercept : -0.00056  
 Slope: 0.00271

=====  
 Element: Pb Seq. No.: 5 AS Loc.: 129 Date: 06/28/2006  
 Sample ID: Standard 50  
 µL dispensed: 10 from 141, 5 from 146, 15 from 129

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.1316	0.1330	0.4359	0.0316	0.0928	04:33:01	Yes
2			0.1270	0.1284	0.4231	0.0289	0.0902	04:35:53	Yes

Pb



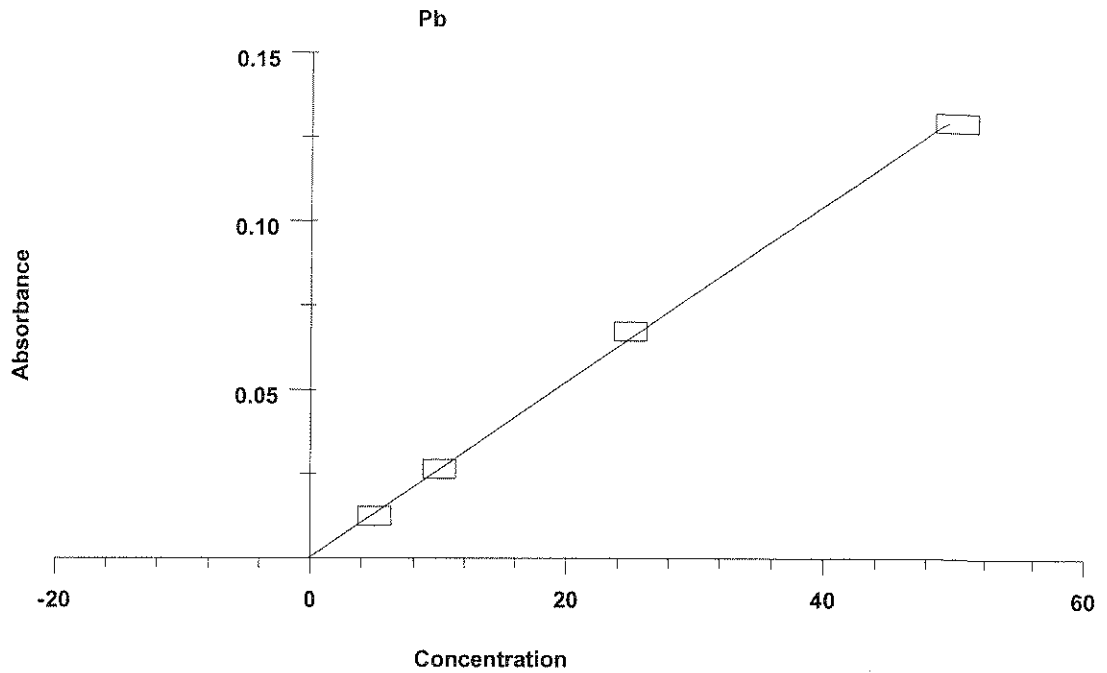
Mean: 0.1293  
 SD : 0.0032  
 %RSD: 2.51  
 [Pb] Standard number 4 applied. [50.0]  
 Correlation Coefficient: 0.99972  
 Intercept : 0.00030

Slope: 0.00260

-----  
 Calibration data for Pb

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	0.0013	-	----	----	----
Standard 5	0.0124	5.0	4.7	0.00	1.08
Standard 10	0.0264	10.0	10.0	0.00	1.01
Standard 25	0.0674	25.0	25.8	0.00	2.26
Standard 50	0.1293	50.0	49.6	0.00	2.51
Correlation Coefficient: 0.99972		Slope:	0.00260	Intercept:	0.0003

-----



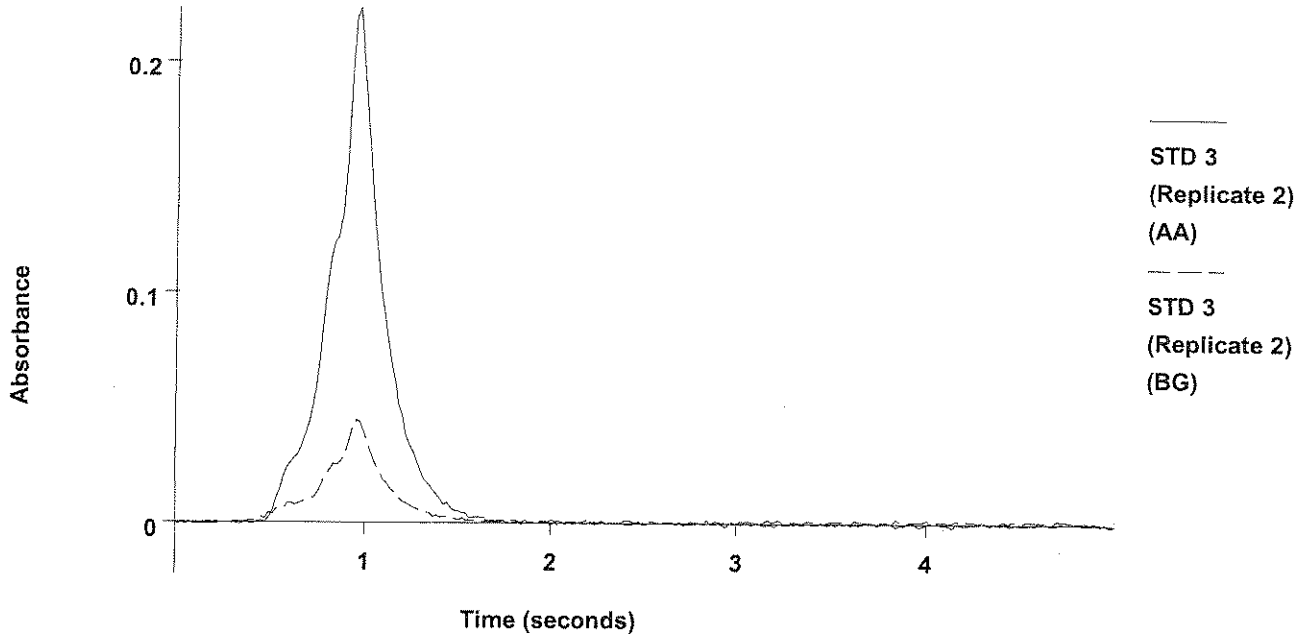
```

=====
Element: Pb      Seq. No.: 6      AS Loc.: 126      Date: 06/28/2006
Sample ID: STD 3
µL dispensed:  10 from 141, 5 from 146, 15 from 126
=====

```

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.7	26.7	0.0696	0.0709	0.2367	0.0164	0.0479	04:38:54	Yes
2	25.8	25.8	0.0674	0.0687	0.2234	0.0173	0.0446	04:41:46	Yes

Pb

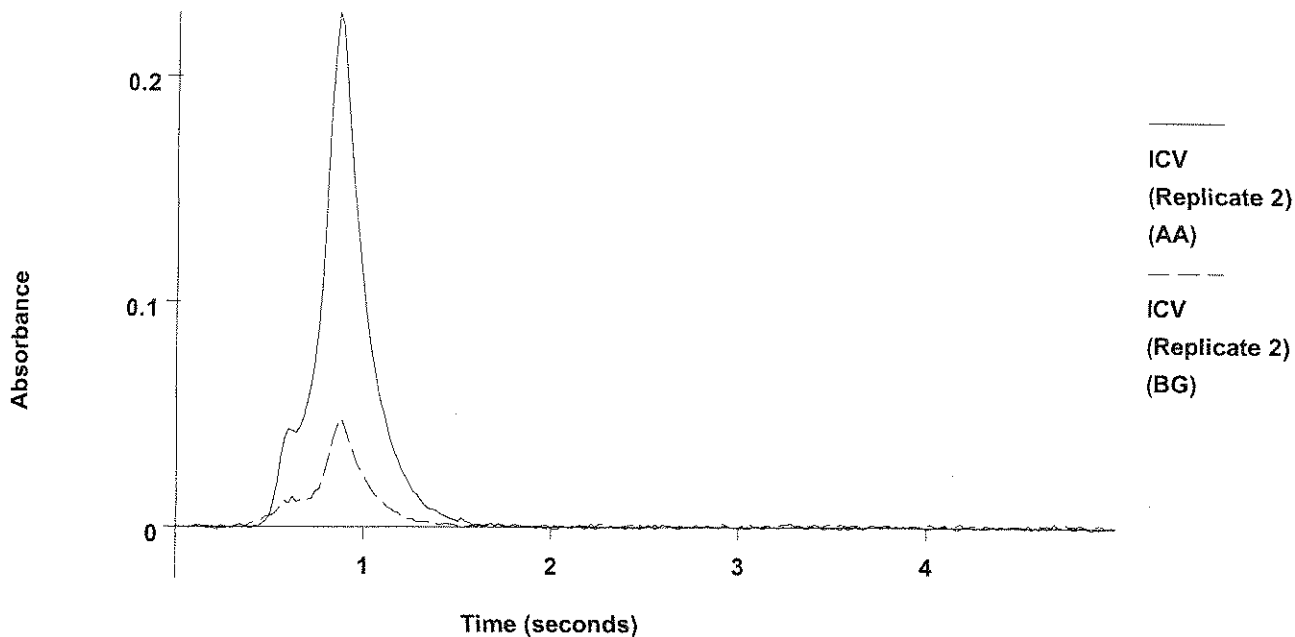


Mean: 26.2 26.2 0.0685  
 SD : 0.59 0.59 0.0015  
 %RSD: 2.26 2.26 2.25 ✓  
 QC value within specified limits.

=====  
 Element: Pb Seq. No.: 7 AS Loc.: 134 Date: 06/28/2006  
 Sample ID: ICV  
 µL dispensed: 10 from 141, 5 from 146, 15 from 134  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.1	25.1	0.0655	0.0668	0.2299	0.0154	0.0486	04:44:37	Yes
2	24.7	24.7	0.0646	0.0659	0.2282	0.0163	0.0479	04:47:27	Yes

Pb



Mean: 24.9 24.9 0.0650  
 SD : 0.24 0.24 0.0006  
 %RSD: 0.95 0.95 0.94 ✓

QC value within specified limits.

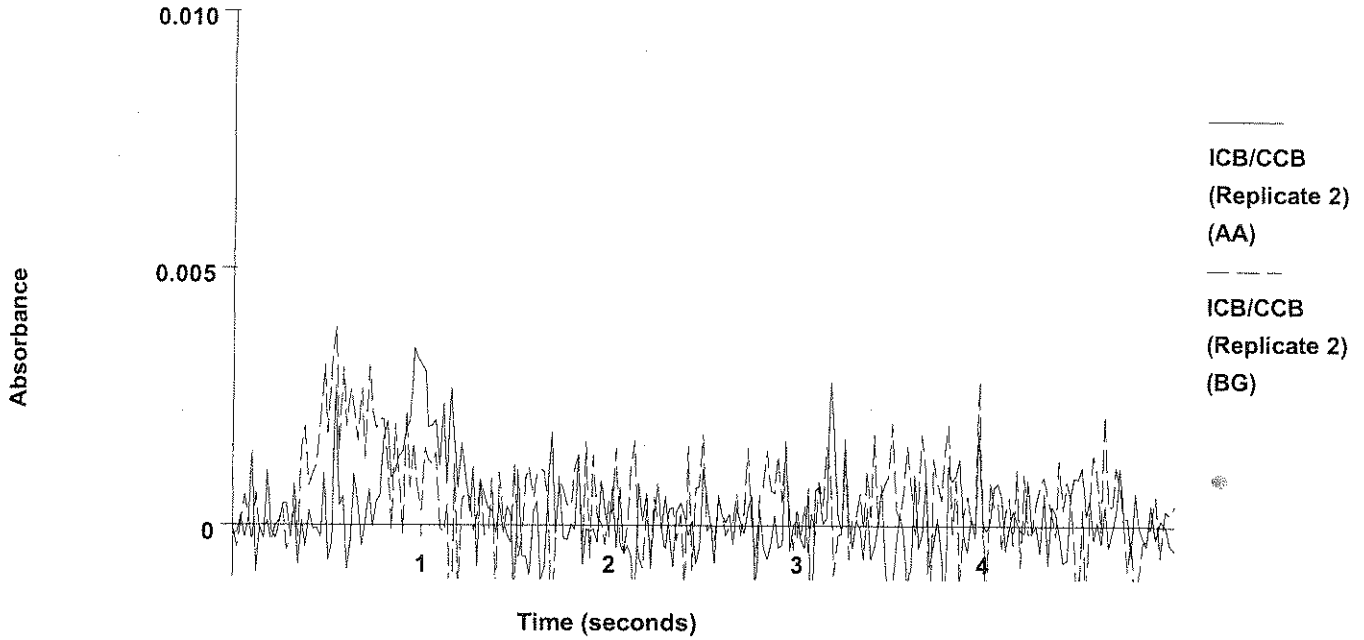
=====  
 Element: Pb Seq. No.: 8 AS Loc.: 141 Date: 06/28/2006

Sample ID: ICB/CCB

μL dispensed: 10 from 141, 5 from 146, 15 from 141

Repl #	SampleConc μg/L	StndConc μg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0008	0.0005	0.0036	0.0041	0.0055	04:50:20	Yes
2	-0.2	-0.2	-0.0001	0.0012	0.0035	0.0024	0.0038	04:53:12	Yes

Pb

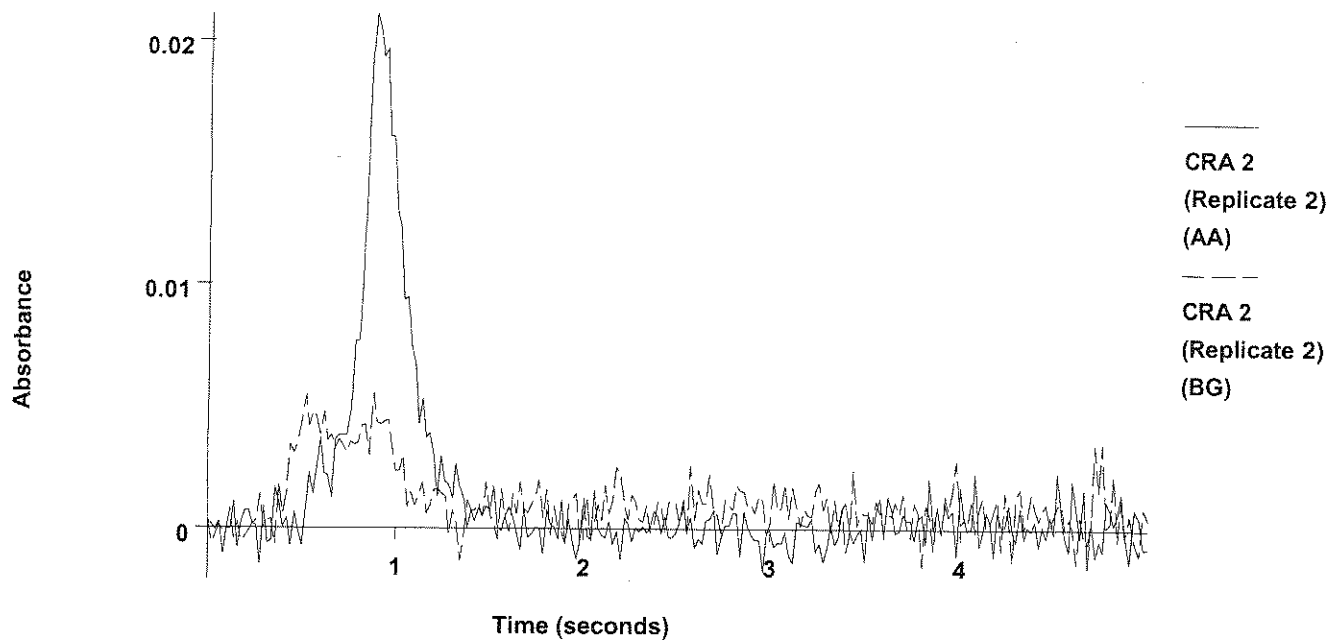


Mean: -0.3 -0.3 -0.0005  
 SD : 0.18 0.18 0.0005  
 %RSD: 61.70 61.70 100.69 ✓  
 QC value within specified limits.

=====  
 Element: Pb Seq. No.: 9 AS Loc.: 136 Date: 06/28/2006  
 Sample ID: CRA 2  
 µL dispensed: 10 from 141, 5 from 146, 15 from 136  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.9	1.9	0.0052	0.0065	0.0271	0.0046	0.0065	04:56:01	Yes
2	1.8	1.8	0.0051	0.0064	0.0211	0.0054	0.0055	04:58:52	Yes

Pb



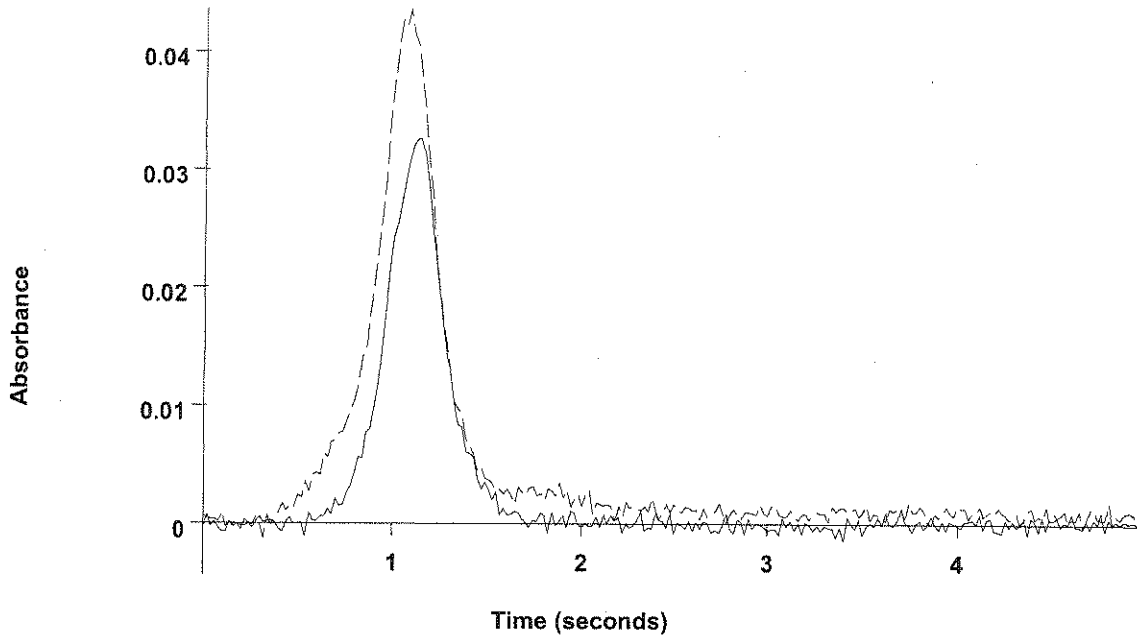
Mean: 1.9 1.9 0.0051  
 SD : 0.03 0.03 0.0001  
 %RSD: 1.84 1.84 1.73 ✓  
 QC value within specified limits.

=====  
 Element: Pb Seq. No.: 10 AS Loc.: 1 Date: 06/28/2006  
 Sample ID: BF62206-DUP2  
 µL dispensed: 10 from 141, 5 from 146, 15 from 1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.0	4.0	0.0107	0.0120	0.0326	0.0230	0.0417	05:01:44	Yes
2	4.0	4.0	0.0106	0.0119	0.0326	0.0216	0.0436	05:04:36	Yes



Pb



BF62206-DUP2  
(Replicate 2)  
(AA)  
BF62206-DUP2  
(Replicate 2)  
(BG)

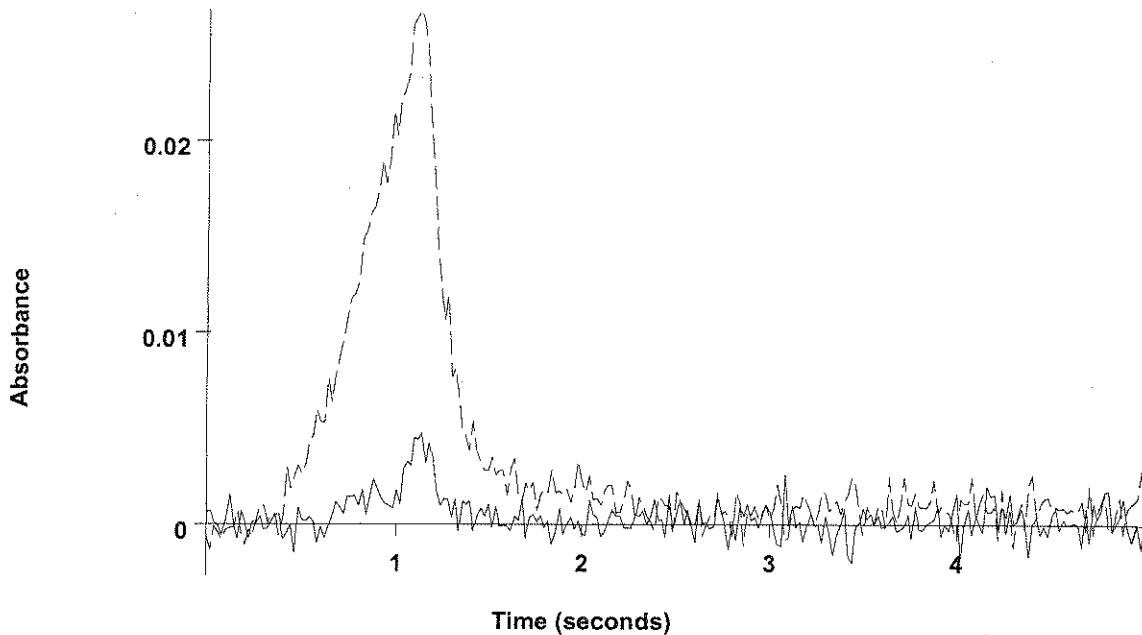
Mean: 4.0 4.0 0.0106  
SD : 0.02 0.02 0.0001  
%RSD: 0.52 0.52 0.51

*M*

=====  
Element: Pb Seq. No.: 11 AS Loc.: 2 Date: 06/28/2006  
Sample ID: 0606346-05DIS  
µL dispensed: 10 from 141, 5 from 146, 15 from 2  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	0.0000	0.0014	0.0043	0.0186	0.0275	05:07:29	Yes
2	0.1	0.1	0.0006	0.0019	0.0048	0.0166	0.0268	05:10:22	Yes

Pb



0606346-05DIS  
(Replicate 2)  
(AA)

0606346-05DIS  
(Replicate 2)  
(BG)

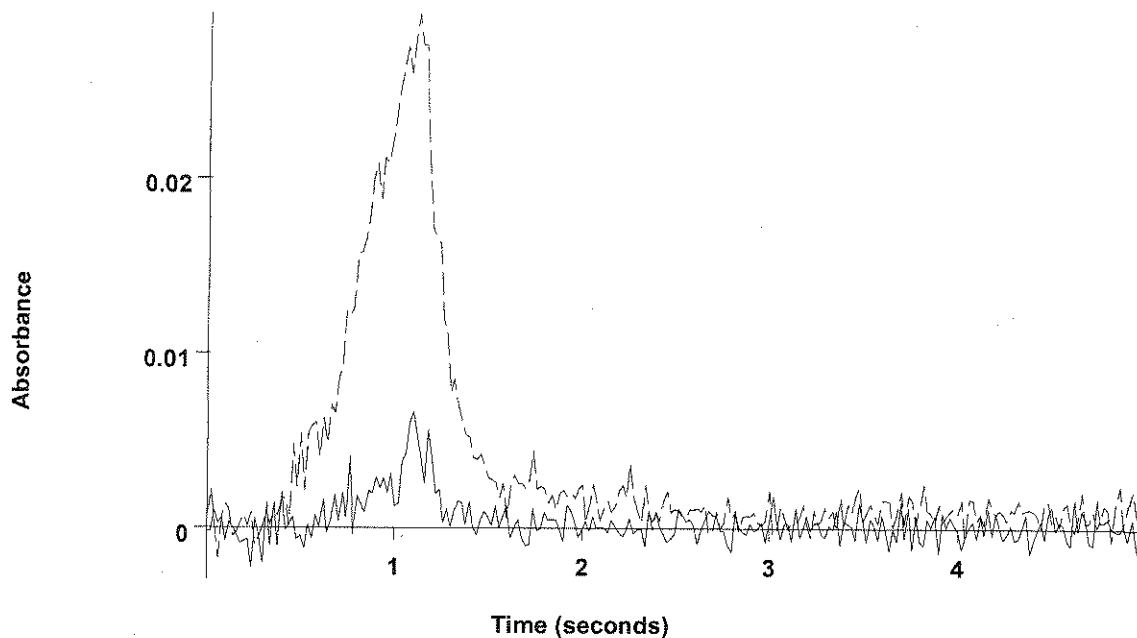
Mean: 0.0 0.0 0.0003  
SD : 0.16 0.16 0.0004  
%RSD: 6985 6985 135.47

*M*

=====  
Element: Pb Seq. No.: 12 AS Loc.: 3 Date: 06/28/2006  
Sample ID: 0606346-06DIS  
µL dispensed: 10 from 141, 5 from 146, 15 from 3  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.3	0.3	0.0011	0.0024	0.0078	0.0216	0.0385	05:13:16	Yes
2	0.1	0.1	0.0006	0.0020	0.0066	0.0182	0.0294	05:16:08	Yes

Pb



0606346-06DIS  
(Replicate 2)  
(AA)

0606346-06DIS  
(Replicate 2)  
(BG)

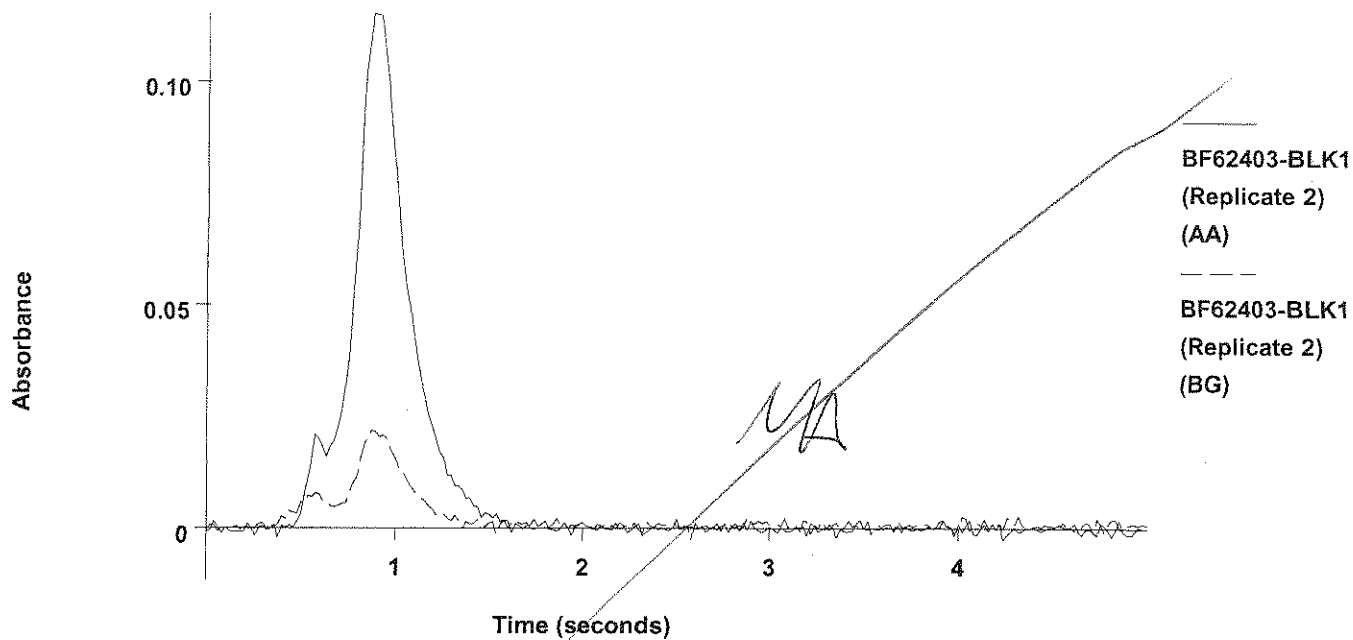
Mean: 0.2 0.2 0.0009  
SD : 0.13 0.13 0.0003  
%RSD: 60.94 60.94 39.77

*W*

=====  
Element: Pb Seq. No.: 13 AS Loc.: 4 Date: 06/28/2006  
Sample ID: BF62301-BLK1  
µL dispensed: 10 from 141, 5 from 146, 15 from 4  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.8	5.8	0.0153	0.0166	0.0559	0.0076	0.0114	05:19:01	Yes
2	5.9	5.9	0.0155	0.0169	0.0477	0.0067	0.0112	05:21:55	Yes

Pb

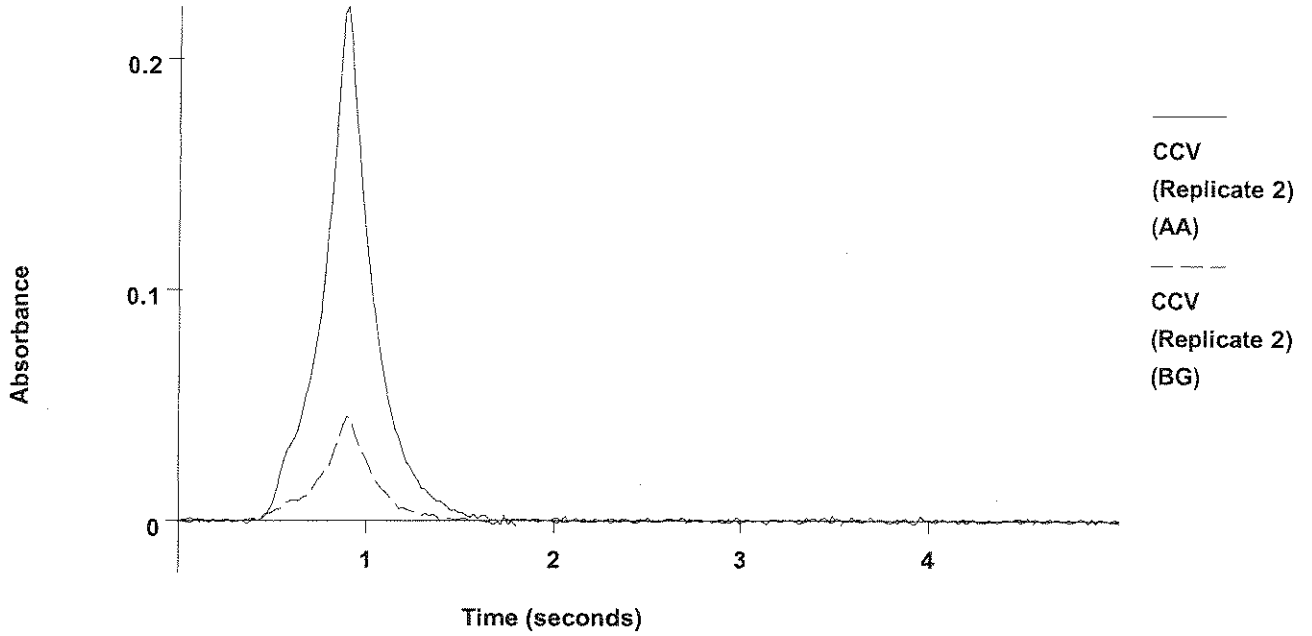


Mean: 14.4      14.4      0.0378  
 SD : 0.16      0.16      0.0004  
 %RSD: 1.08      1.08      1.07

=====  
 Element: Pb    Seq. No.: 20      AS Loc.: 126    Date: 06/28/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 141, 5 from 146, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.3	26.3	0.0687	0.0701	0.2167	0.0192	0.0447	05:59:21	Yes
2	25.7	25.7	0.0671	0.0684	0.2224	0.0140	0.0450	06:02:14	Yes

Pb

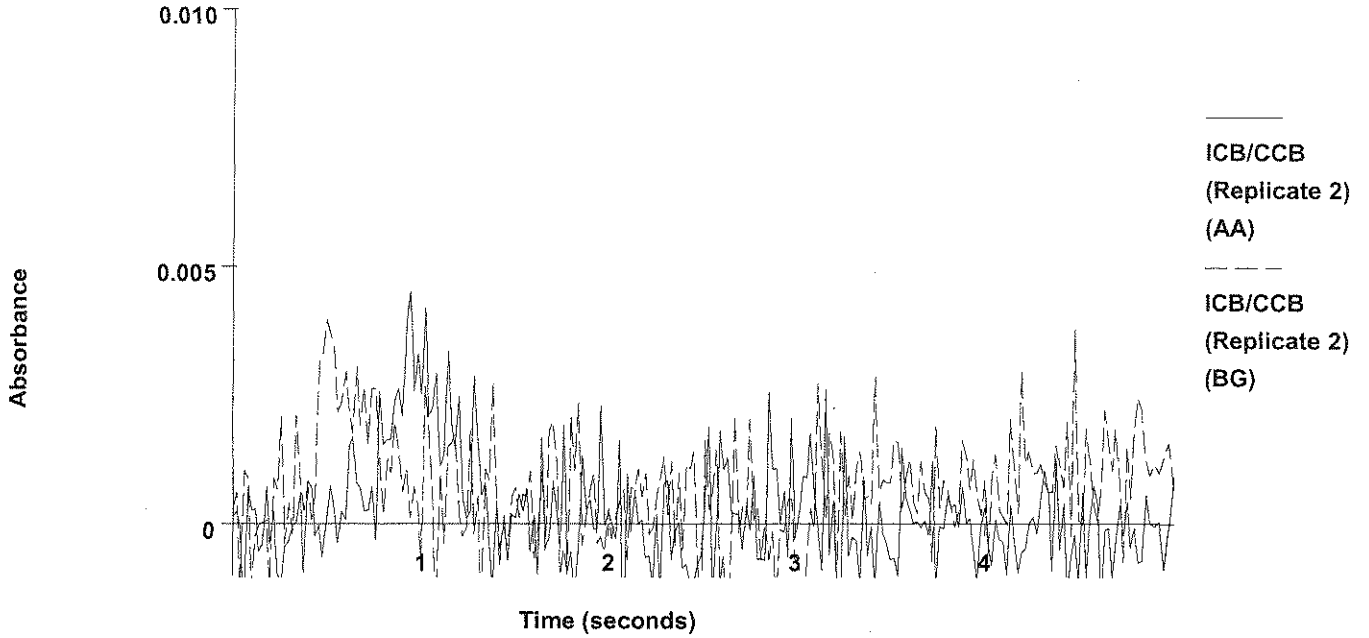


Mean: 26.0 26.0 0.0679  
 SD : 0.45 0.45 0.0012 ✓  
 %RSD: 1.72 1.72 1.72  
 QC value within specified limits.

=====  
 Element: Pb Seq. No.: 21 AS Loc.: 141 Date: 06/28/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 141, 5 from 146, 15 from 141  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0005	0.0008	0.0037	0.0033	0.0035	06:05:07	Yes
2	-0.1	-0.1	-0.0001	0.0013	0.0045	0.0036	0.0040	06:08:00	Yes

Pb



Mean: -0.2 -0.2 -0.0003  
 SD : 0.12 0.12 0.0003  
 %RSD: 52.48 52.48 101.75  
 QC value within specified limits.

=====  
 Element: Pb Seq. No.: 22 AS Loc.: 11 Date: 06/28/2006  
 Sample ID: BF62403-BS2  
 µL dispensed: 10 from 141, 5 from 146, 15 from 11

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	35.7	35.7	0.0930	0.0944	0.3254	0.0223	0.0672	06:10:53	Yes
2	35.4	35.4	0.0924	0.0937	0.2823	0.0210	0.0568	06:13:46	Yes

## ANALYSIS SEQUENCE

BPG0209

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0209-CAL1	QC		1		6F21081		
BPG0209-CAL2	QC		2		6F23020		
BPG0209-CAL3	QC		3		6F23015		
BPG0209-CAL4	QC		4		6F23016		
BPG0209-CAL5	QC		5		6F23017		
BPG0209-ICV1	QC		6		6F23016		
BPG0209-SCV1	QC		7		6F23023		
BPG0209-ICB1	QC		8				
BF62206-BLK3	QC		9				
BF62206-BS3	QC		10				
BF62206-BSD3	QC		11				
BPG0209-CCB1	QC		12				
BPG0209-CCV1	QC		13		6F23016		
BF62207-BLK2	QC		14				
BF62207-BS2	QC		15				
BF62207-BSD2	QC		16				
BPG0209-CCB2	QC		17				
BPG0209-CCV2	QC		18		6F23016		

Samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

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Data Processed By \_\_\_\_\_ Date \_\_\_\_\_

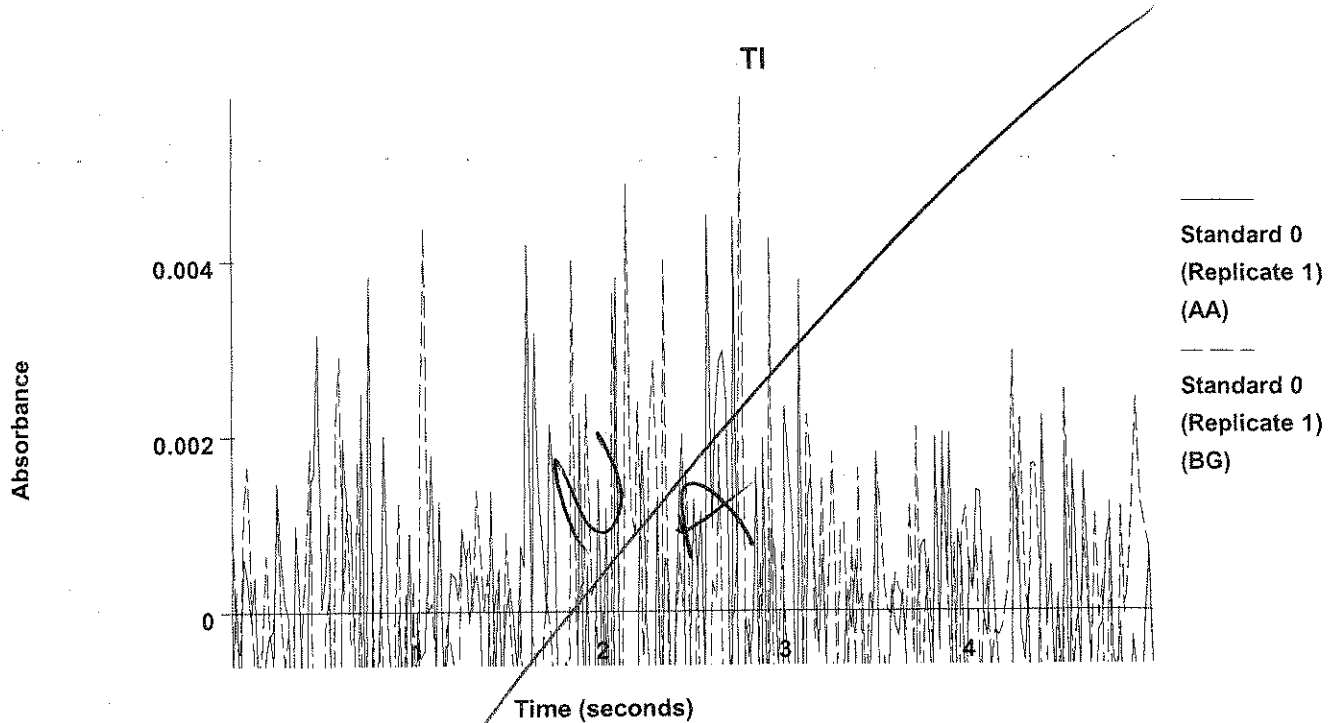
Method Name: Tl 2  
 Method Description: Tl 2  
 Element: Tl

Date: 06/23/2006  
 Technique: Furnace  
 Calibration Type:  
 Tl, Calc. Intercept : Linear  
 Wavelength: 276.8 nm  
 Energy: 100  
 Slit Width: 0.7  
 Lamp Current: 6 mA  
 Sample Info Name: 062306YA.SIF

Results Data Set Name: 062306yad

Element: Tl Seq. No.: 1 AS Loc.: 148 Date: 06/23/2006  
 Sample ID: Standard 0  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc	StndConc	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1			-0.0002	-0.0002	0.0045	-0.0002	0.0059	04:25:35	Yes



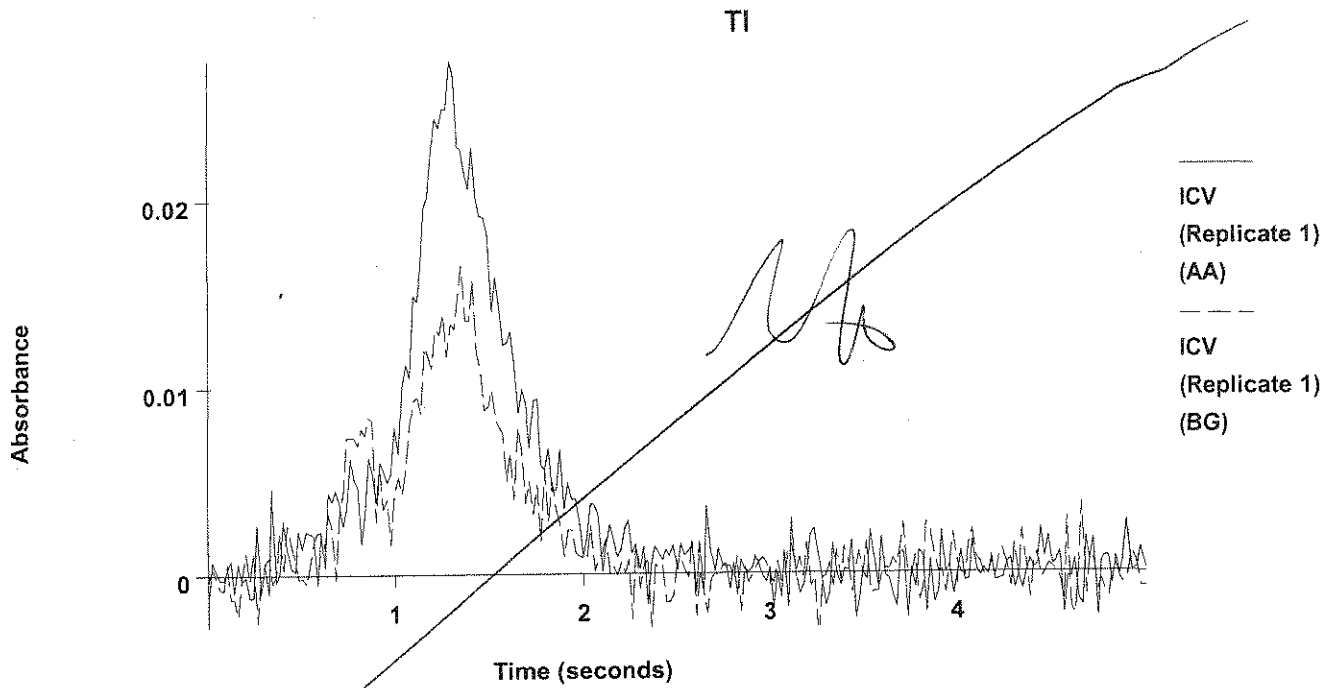
2			0.0007	0.0007	0.0040	-0.0001	0.0056	04:28:24	Yes
Mean:			0.0002						
SD :			0.0007						
%RSD:			267.02						

Auto-zero performed.

Element: Tl Seq. No.: 2 AS Loc.: 136 Date: 06/23/2006  
 Sample ID: Standard 2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 136

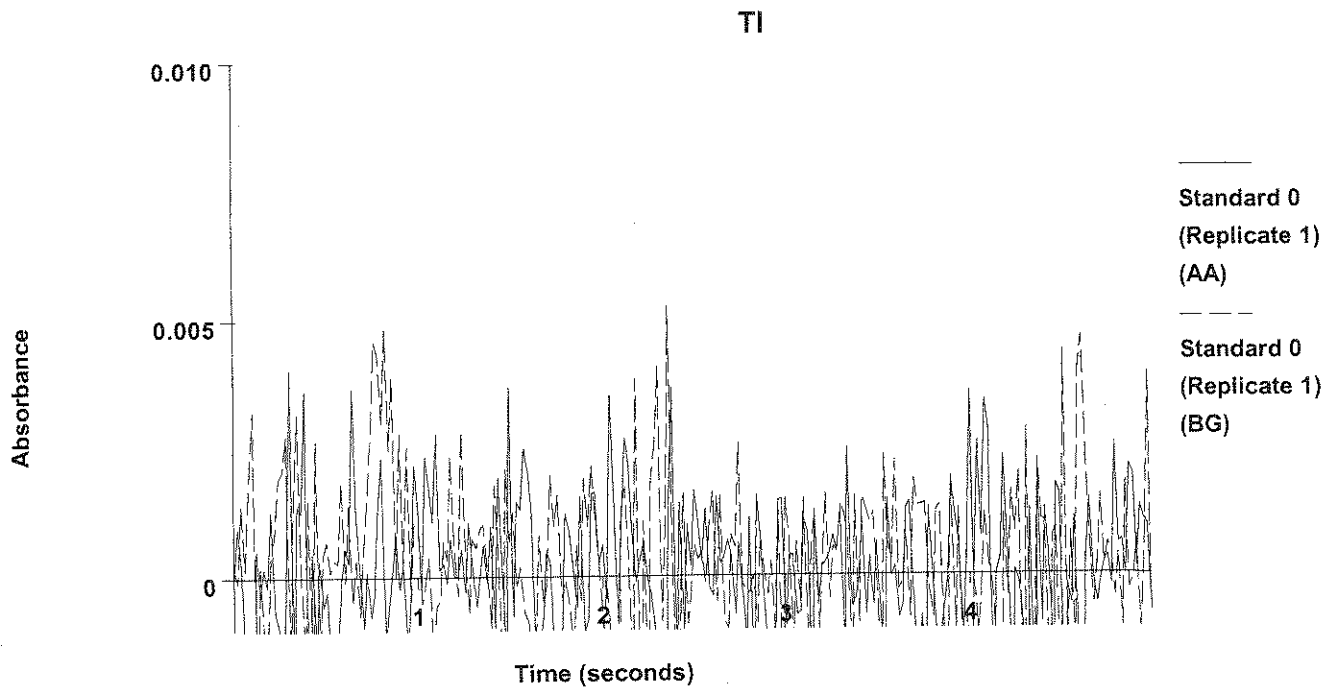
Repl #	SampleConc	StndConc	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0043	0.0046	0.0083	0.0030	0.0055	04:31:40	Yes





=====  
 Element: Tl    Seq. No.: 12    AS Loc.: 148    Date: 06/23/2006  
 Sample ID: Standard 0  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

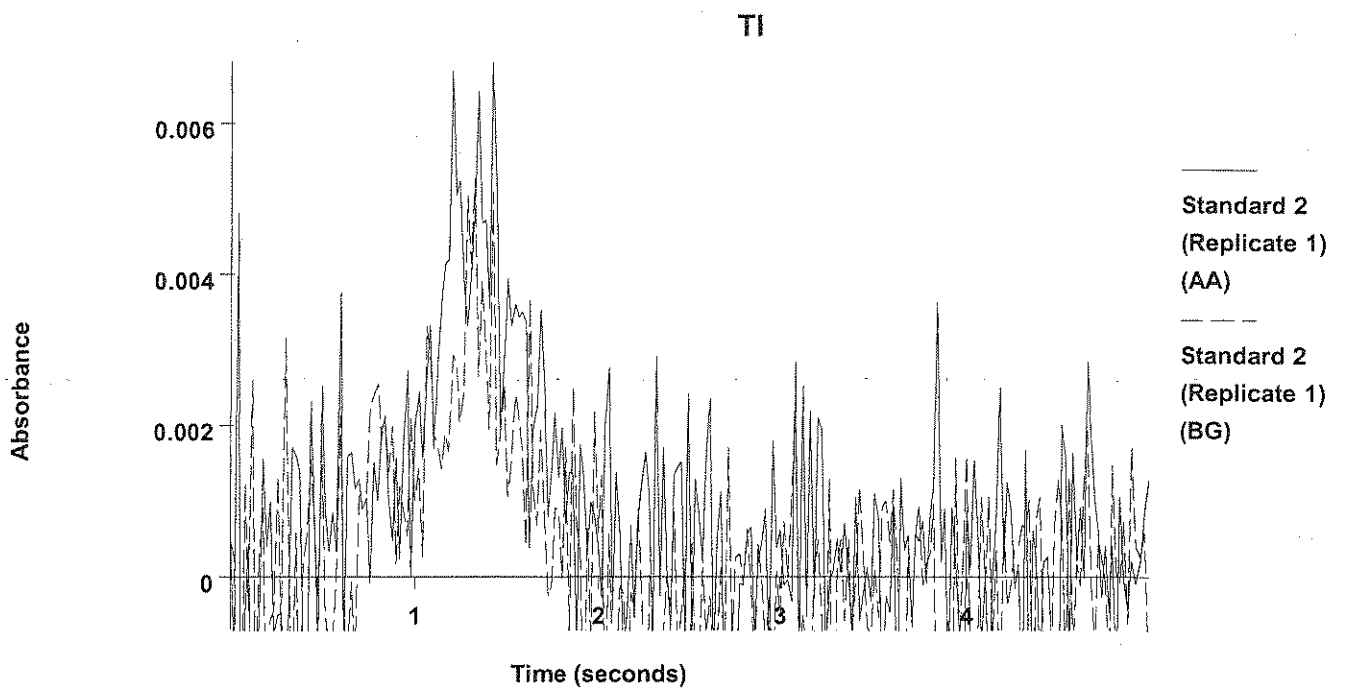
Repl #	SampleConc	StndConc	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0009	0.0009	0.0041	0.0020	0.0053	05:32:03	Yes



Mean: 0.0009  
 SD : 0.0000  
 %RSD: 1.38  
 Auto-zero performed.

=====  
 Element: Tl Seq. No.: 13 AS Loc.: 136 Date: 06/23/2006  
 Sample ID: Standard 2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 136  
 =====

Repl #	SampleConc	StndConc	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0036	0.0045	0.0068	0.0016	0.0053	05:38:08	Yes

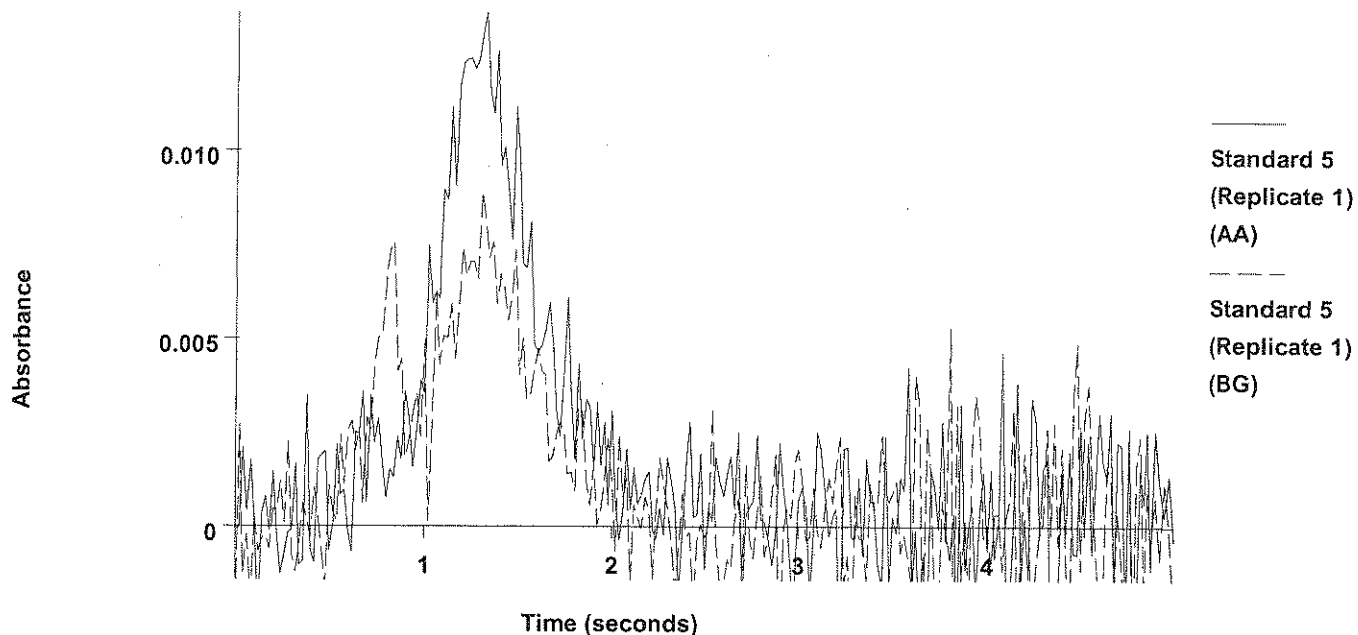


2 0.0021 0.0030 0.0069 0.0031 0.0085 05:40:56 Yes  
 Mean: 0.0029  
 SD : 0.0011  
 %RSD: 37.08  
 [Tl] Standard number 1 applied. [2.0]  
 Correlation Coefficient: 1.00000 Slope: 0.00143  
 Intercept : 0.00000

=====  
 Element: Tl Seq. No.: 14 AS Loc.: 121 Date: 06/23/2006  
 Sample ID: Standard 5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 121  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0087	0.0096	0.0137	0.0063	0.0089	05:44:11	Yes

Tl

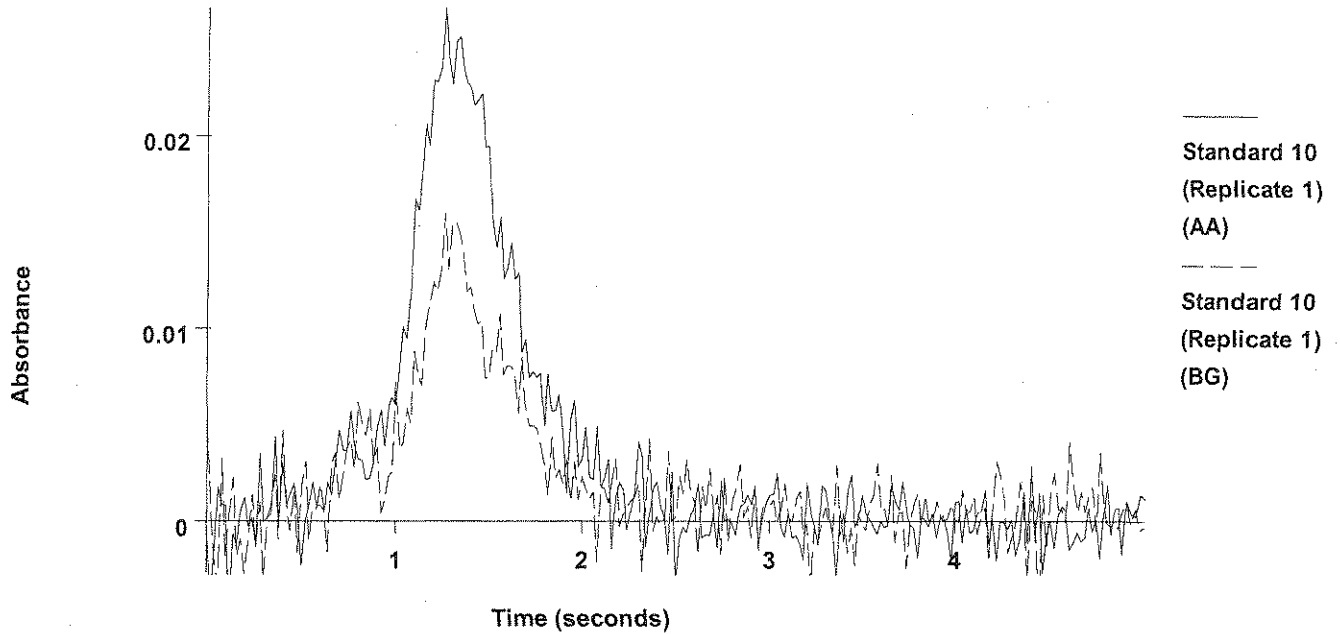


2                                    0.0076    0.0084    0.0145    0.0047    0.0111   05:47:01   Yes  
 Mean:                                0.0081  
 SD :                                    0.0008  
 %RSD:                                 9.83  
 [Tl] Standard number 2 applied. [5.0]  
 Correlation Coefficient: 0.99849                                    Slope: 0.00164  
 Intercept : -0.00016

=====  
 Element: Tl    Seq. No.: 15                    AS Loc.: 124    Date: 06/23/2006  
 Sample ID: Standard 10  
 µL dispensed: 10 from 148, 5 from 147, 15 from 124  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0159	0.0167	0.0267	0.0108	0.0160	05:50:20	Yes

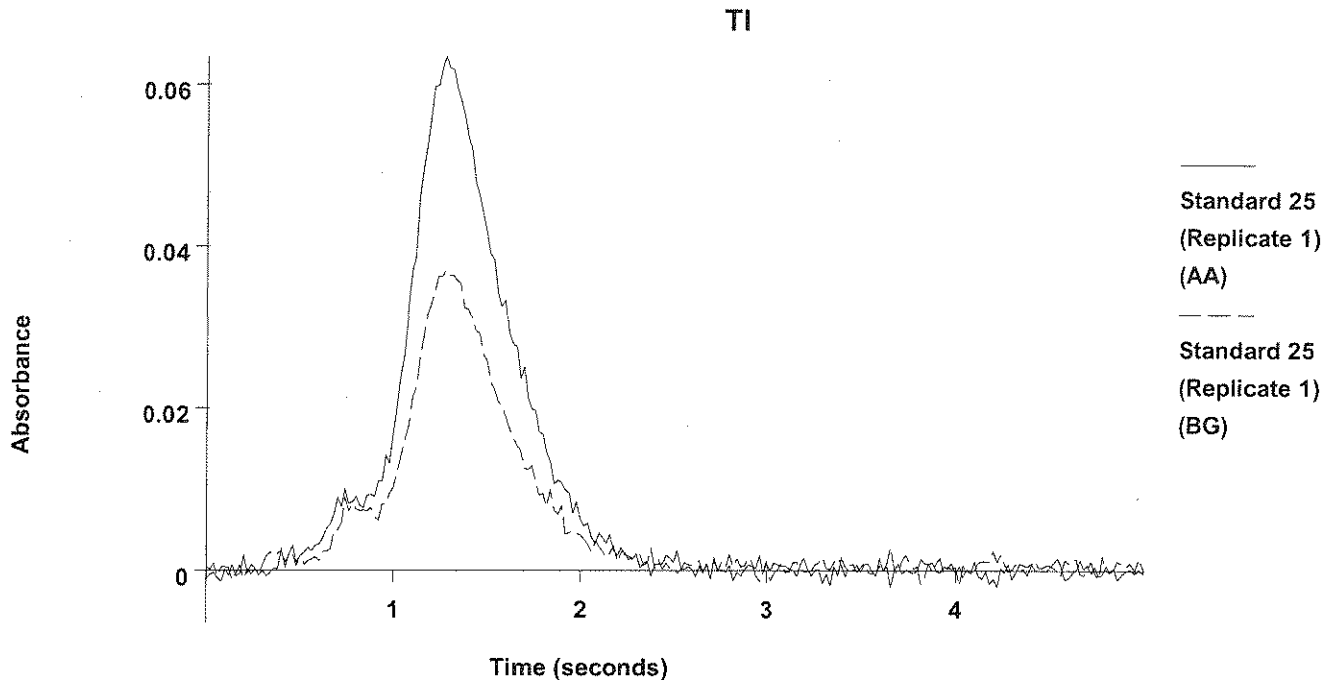
Tl



2 0.0150 0.0158 0.0262 0.0113 0.0166 05:53:11 Yes  
 Mean: 0.0154  
 SD : 0.0006  
 %RSD: 4.08  
 [Tl] Standard number 3 applied. [10.0]  
 Correlation Coefficient: 0.99921 Slope: 0.00156  
 Intercept : -0.00001

=====  
 Element: Tl Seq. No.: 16 AS Loc.: 126 Date: 06/23/2006  
 Sample ID: Standard 25  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

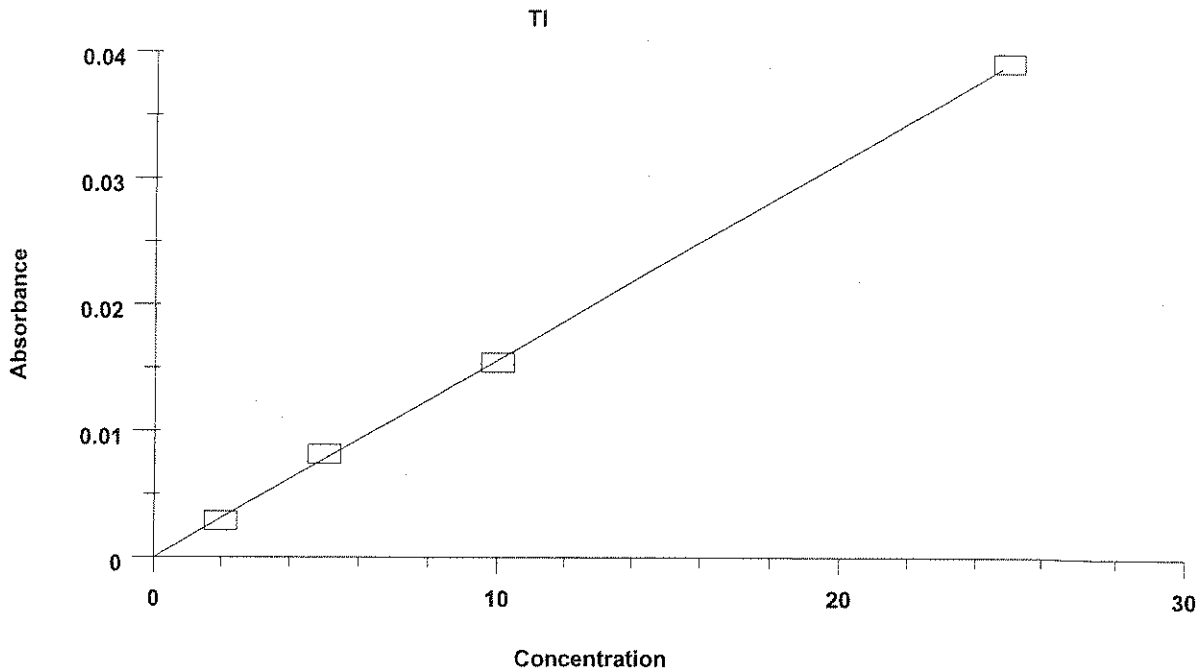
Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0390	0.0399	0.0634	0.0255	0.0370	05:56:30	Yes



2                    0.0392    0.0400    0.0615    0.0248    0.0371    05:59:22    Yes  
 Mean:                    0.0391  
 SD :                    0.0001  
 %RSD:                    0.20  
 [Tl] Standard number 4 applied. [25.0]  
 Correlation Coefficient: 0.99989                    Slope: 0.00156  
 Intercept : -0.00004

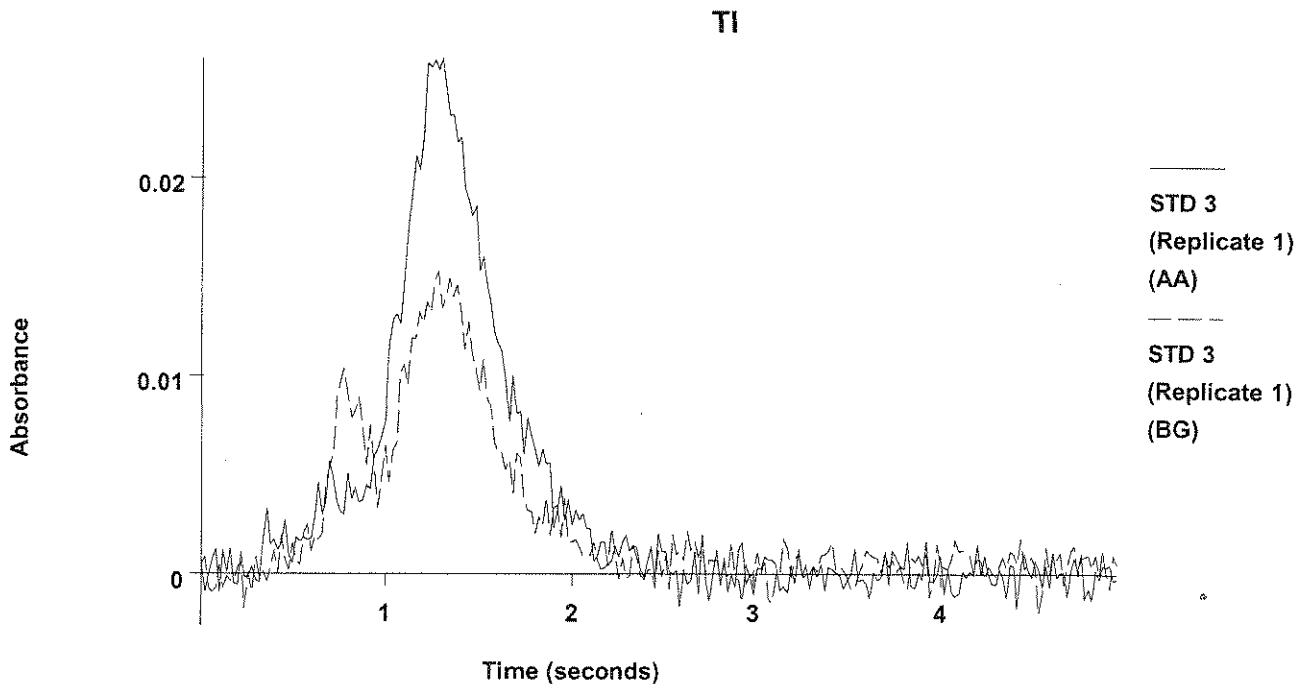
Calibration data for Tl

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	0.0009	-	----	----	----
Standard 2	0.0029	2.0	1.9	0.00	37.08
Standard 5	0.0081	5.0	5.2	0.00	9.83
Standard 10	0.0154	10.0	9.9	0.00	4.08
Standard 25	0.0391	25.0	25.0	0.00	0.20
Correlation Coefficient: 0.99989		Slope:	0.00156	Intercept: 0.0000	



=====  
 Element: Tl    Seq. No.: 17    AS Loc.: 124    Date: 06/23/2006  
 Sample ID: STD 3  
 µL dispensed: 10 from 148, 5 from 147, 15 from 124  
 =====

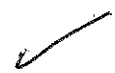
Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	10.3	10.3	0.0160	0.0169	0.0260	0.0123	0.0153	06:02:19	Yes



2	10.4	10.4	0.0163	0.0171	0.0254	0.0105	0.0154	06:05:11	Yes
---	------	------	--------	--------	--------	--------	--------	----------	-----

446

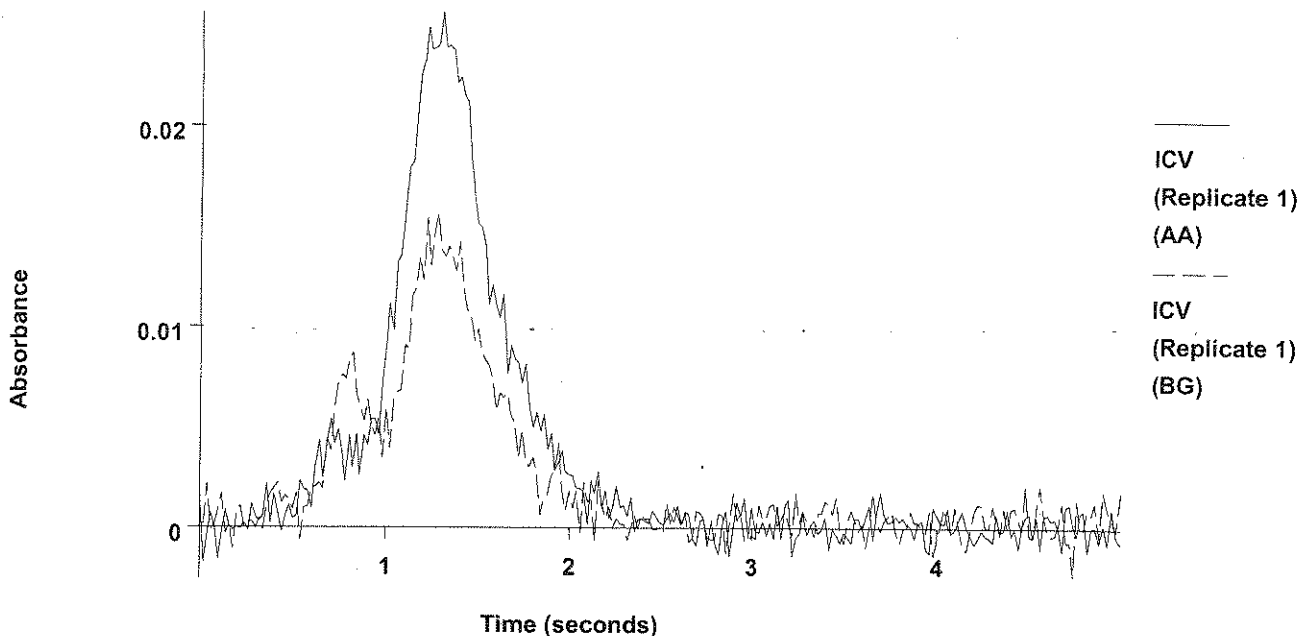
Mean: 10.3 10.3 0.0161  
 SD : 0.11 0.11 0.0002  
 %RSD: 1.06 1.06 1.06  
 QC value within specified limits.



=====  
 Element: Tl Seq. No.: 18 AS Loc.: 139 Date: 06/23/2006  
 Sample ID: ICV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 139  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	10.1	10.1	0.0157	0.0166	0.0257	0.0116	0.0156	06:08:02	Yes

TI



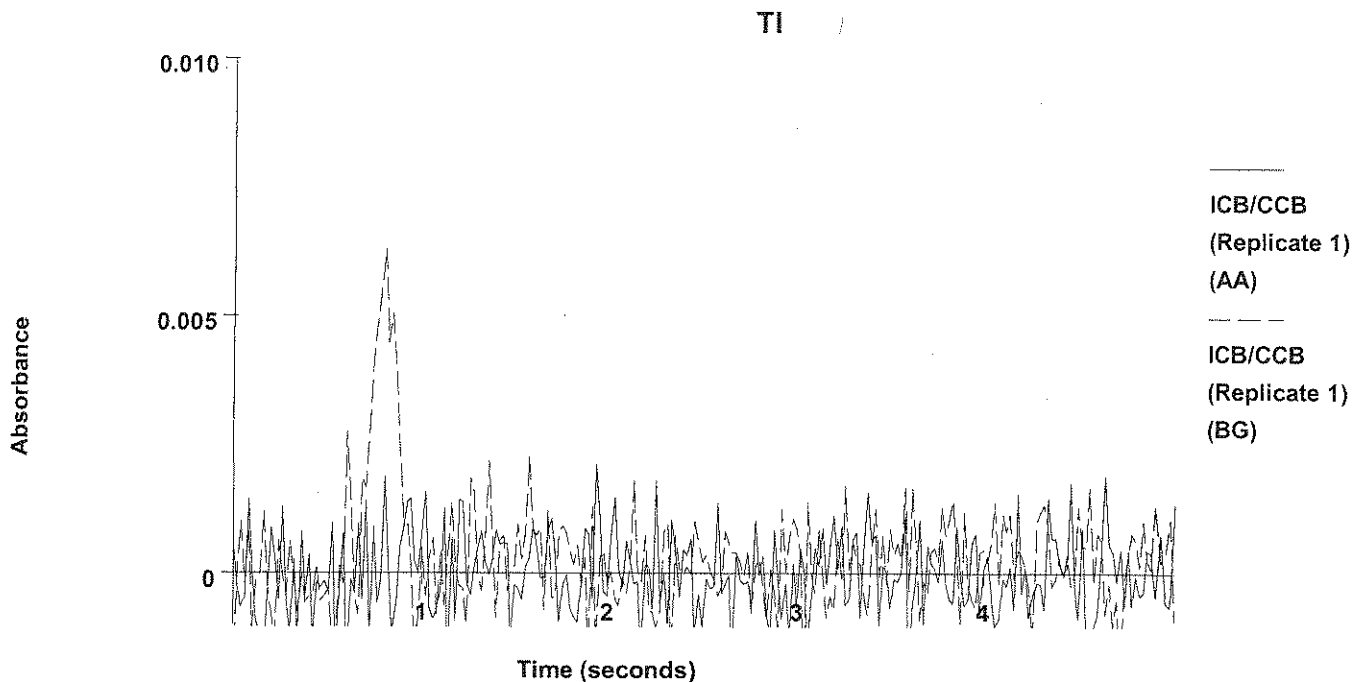
ICV  
 (Replicate 1)  
 (AA)  
 ---  
 ICV  
 (Replicate 1)  
 (BG)

2 10.6 10.6 0.0166 0.0175 0.0254 0.0119 0.0159 06:10:52 Yes  
 Mean: 10.3 10.3 0.0161  
 SD : 0.41 0.41 0.0006  
 %RSD: 3.94 3.94 3.95  
 QC value within specified limits.



=====  
 Element: Tl Seq. No.: 19 AS Loc.: 148 Date: 06/23/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0008	0.0000	0.0021	0.0017	0.0063	06:13:42	Yes



2	0.0	0.0	0.0000	0.0009	0.0035	0.0036	0.0080	06:16:32	Yes
Mean:	-0.2	-0.2	-0.0004						
SD :	0.39	0.39	0.0006						
%RSD:	163.8	163.8	148.58						

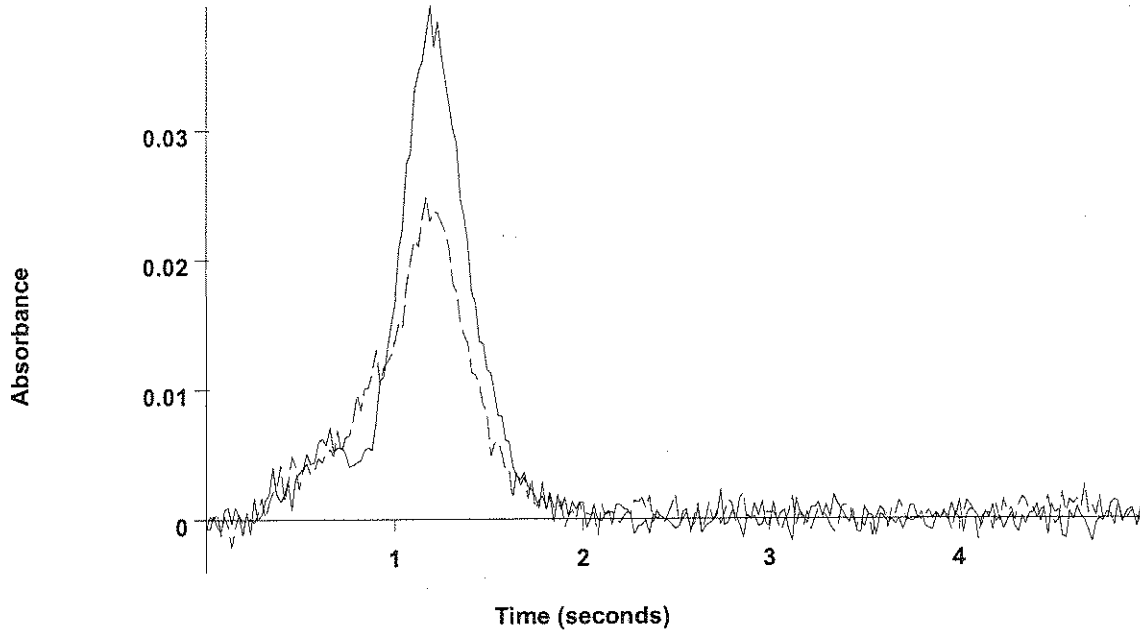
QC value within specified limits. ✓

=====  
 Element: Tl    Seq. No.: 20    AS Loc.: 1    Date: 06/23/2006  
 Sample ID: BF62126-blk1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 1  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0006	0.0002	0.0026	0.0017	0.0025	06:19:21	Yes



Tl



0606357-05 x5  
(Replicate 1)  
(AA)  
-----  
0606357-05 x5  
(Replicate 1)  
(BG)

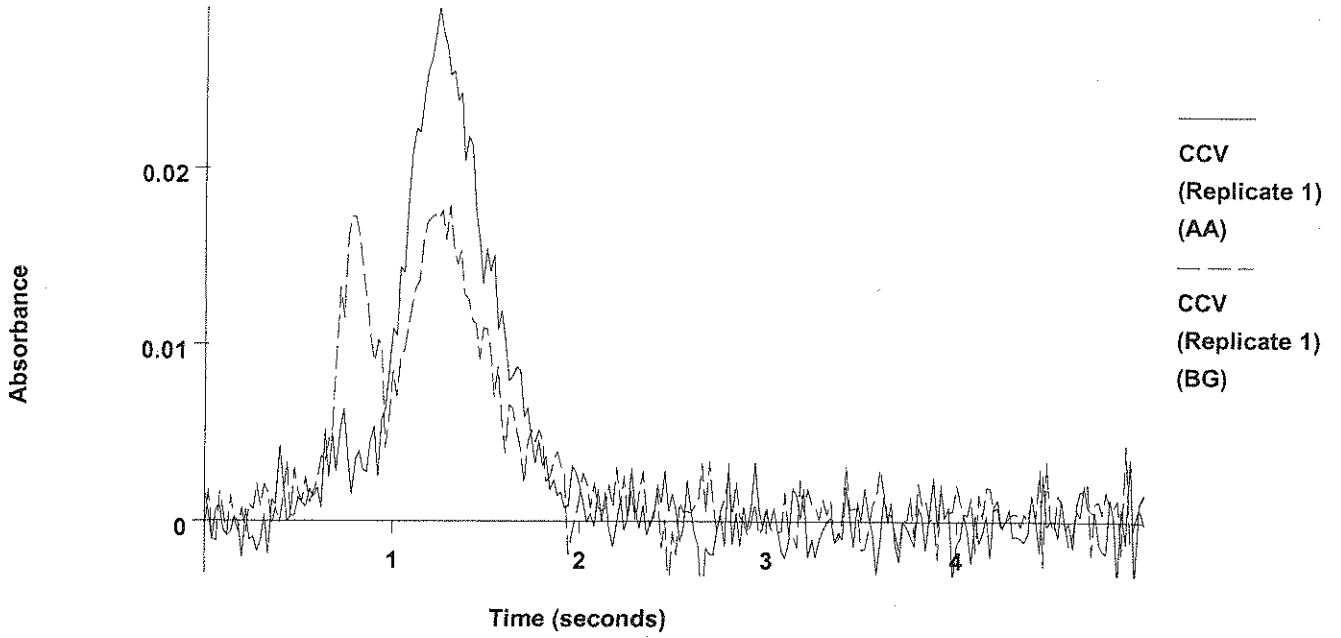
2	52.4	10.5	0.0164	0.0172	0.0377	0.0130	0.0223	08:11:29	Yes
Mean:	55.2	11.0	0.0172						
SD :	3.85	0.77	0.0012						
%RSD:	6.99	6.99	7.00						

Recovery for Tl = 110.3 % within 85 % to 115 %

=====  
Element: Tl    Seq. No.: 40    AS Loc.: 124    Date: 06/23/2006  
Sample ID: CCV  
µL dispensed: 10 from 148, 5 from 147, 15 from 124  
=====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	9.3	9.3	0.0145	0.0154	0.0291	0.0151	0.0179	08:14:19	Yes

TI



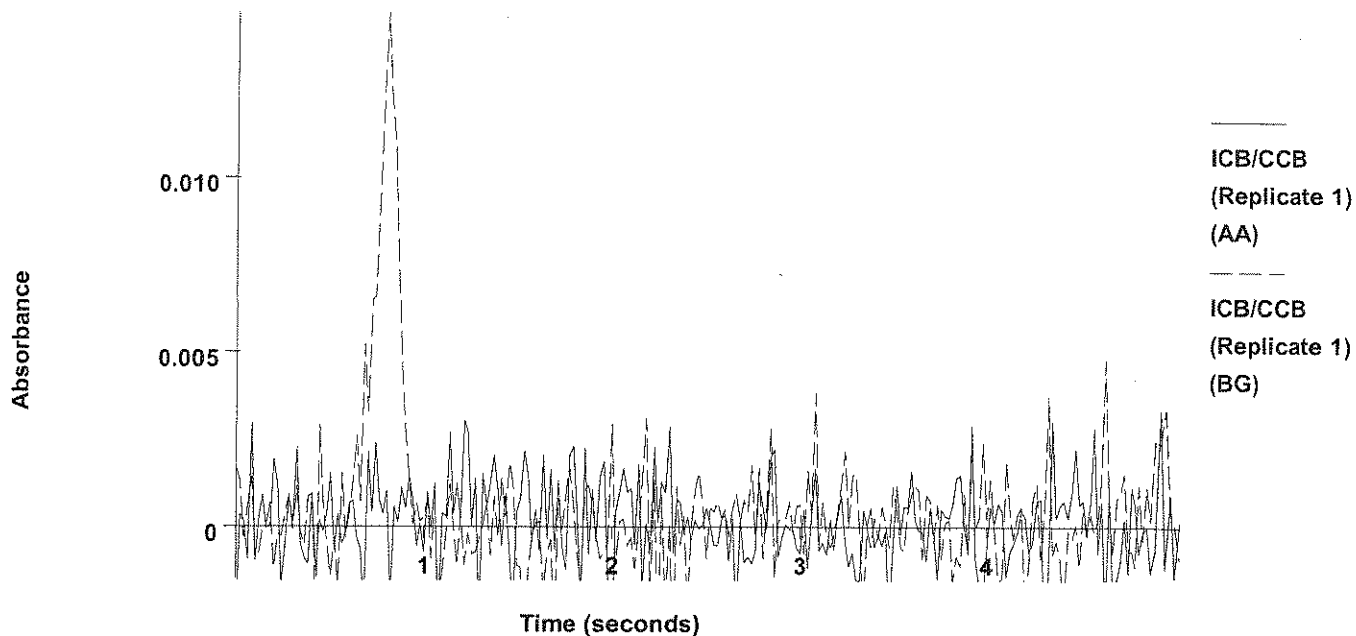
2	9.8	9.8	0.0152	0.0161	0.0289	0.0132	0.0189	08:17:10	Yes
Mean:	9.5	9.5	0.0149						
SD :	0.32	0.32	0.0005						
%RSD:	3.39	3.39	3.39						

QC value within specified limits.

=====  
 Element: Tl    Seq. No.: 41    AS Loc.: 148    Date: 06/23/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0001	0.0007	0.0034	0.0027	0.0147	08:20:01	Yes

TI



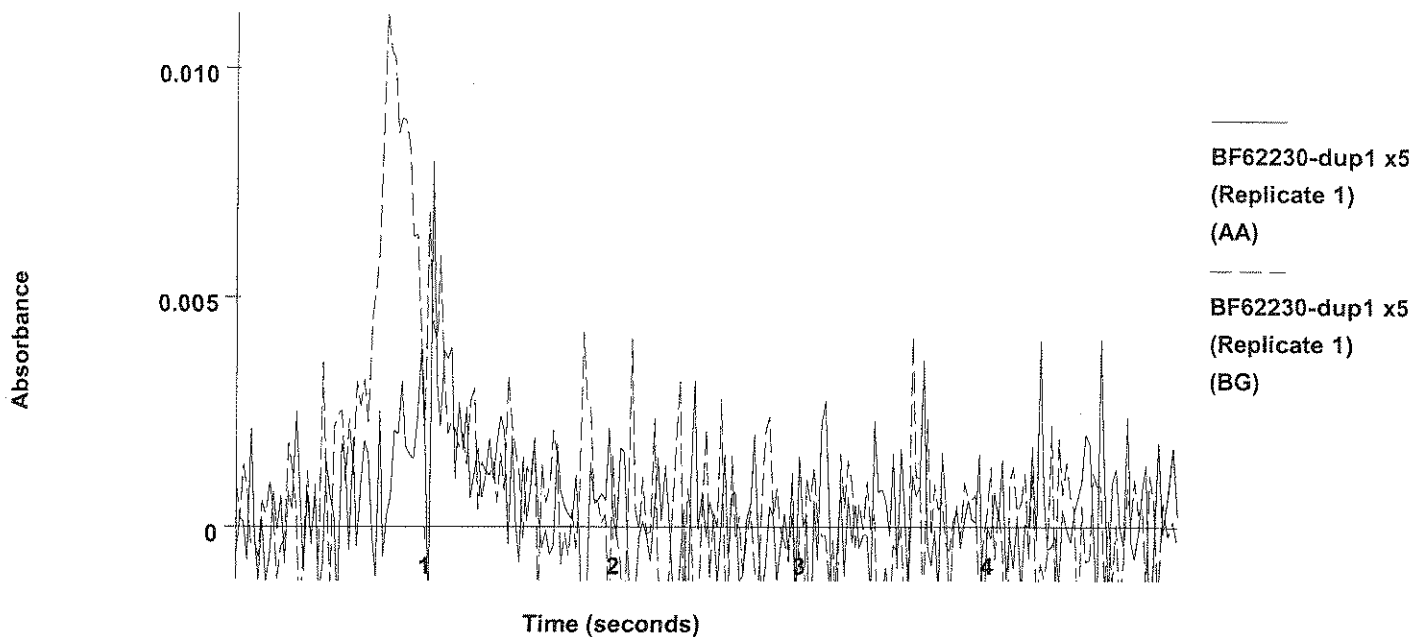
2	0.3	0.3	0.0004	0.0013	0.0056	0.0017	0.0122	08:22:51	Yes
Mean:	0.1	0.1	0.0002						
SD :	0.26	0.26	0.0004						
%RSD:	215.6	215.6	270.48						

QC value within specified limits. ✓

=====  
 Element: Tl    Seq. No.: 42    AS Loc.: 22    Date: 06/23/2006  
 Sample ID: BF62230-dup1 x5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 22  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.9	0.9	0.0013	0.0022	0.0080	0.0043	0.0112	08:25:40	Yes

TI



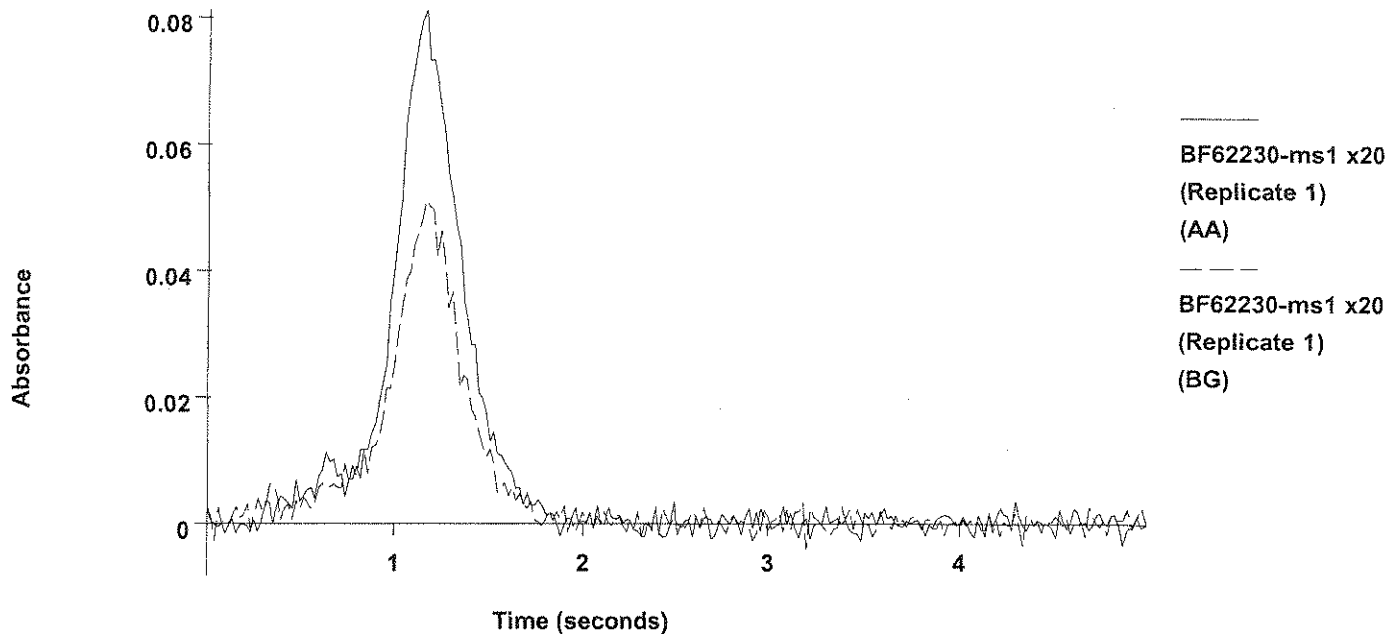
2	0.7	0.7	0.0010	0.0019	0.0042	0.0064	0.0127	08:28:30	Yes
Mean:	0.8	0.8	0.0012						
SD :	0.13	0.13	0.0002						
%RSD:	16.89	16.89	17.44						

*Handwritten initials*

=====  
 Element: Tl    Seq. No.: 43    AS Loc.: 23    Date: 06/23/2006  
 Sample ID: BF62230-ms1 x20  
 µL dispensed: 10 from 148, 5 from 147, 15 from 23  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	21.9	21.9	0.0342	0.0351	0.0812	0.0241	0.0511	08:31:21	Yes

TI



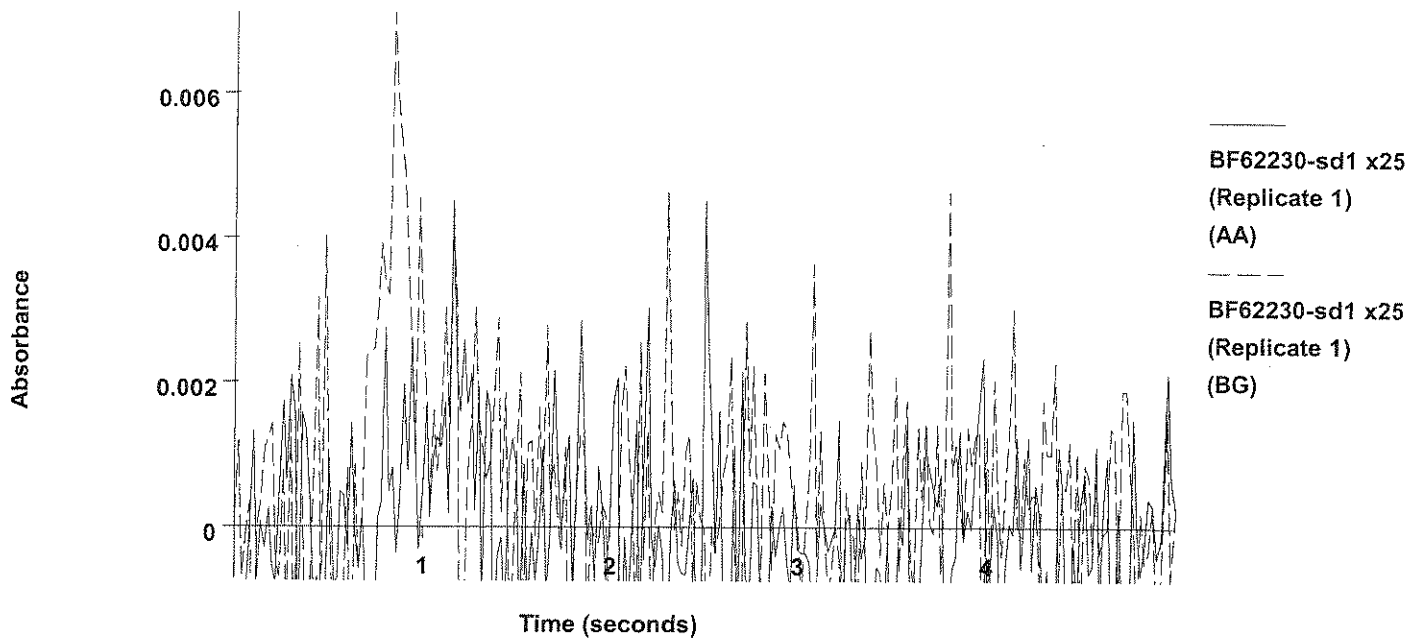
2	22.7	22.7	0.0354	0.0363	0.0808	0.0249	0.0507	08:34:12	Yes
Mean:	22.3	22.3	0.0348						
SD :	0.55	0.55	0.0009						
%RSD:	2.46	2.46	2.47						

899.

=====  
 Element: Tl    Seq. No.: 44    AS Loc.: 24    Date: 06/23/2006  
 Sample ID: BF62230-sd1 x25  
 µL dispensed: 10 from 148, 5 from 147, 15 from 24  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0008	0.0001	0.0045	0.0033	0.0071	08:37:02	Yes

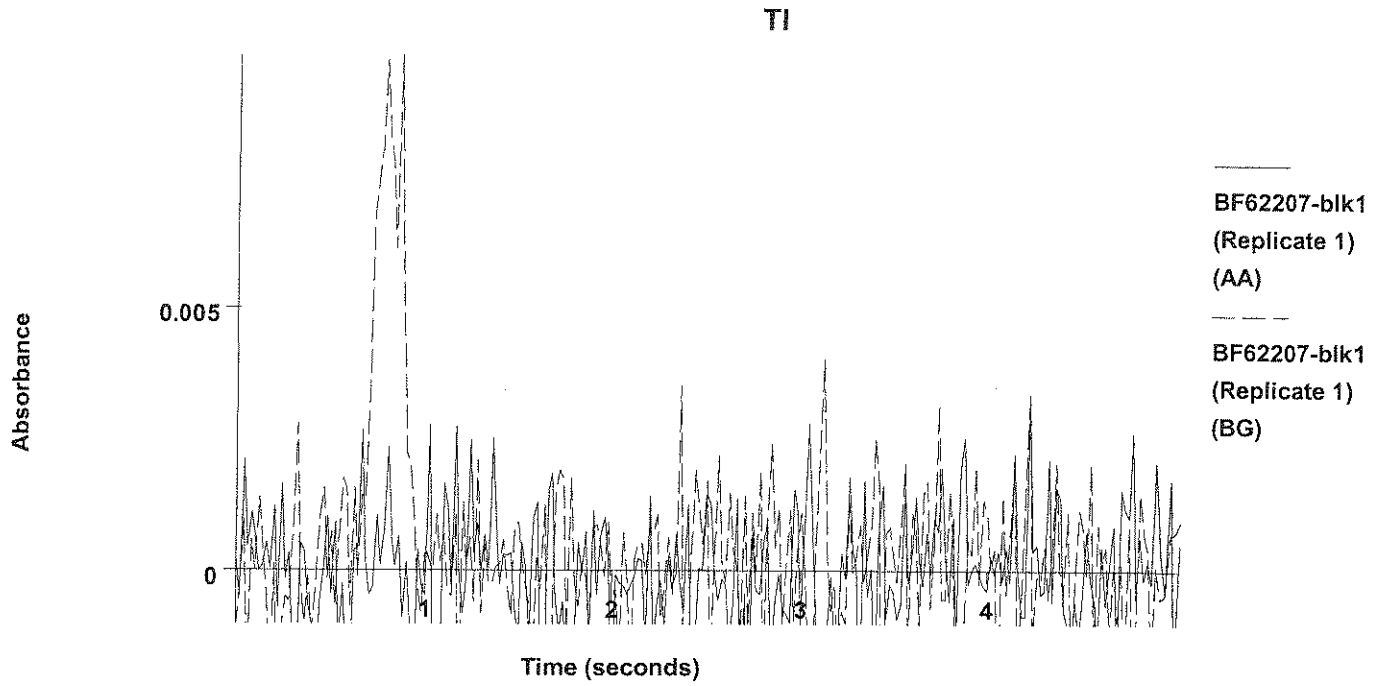
Tl



2	-0.3	-0.3	-0.0006	0.0003	0.0040	0.0036	0.0056	08:39:52	Yes
Mean:	-0.4	-0.4	-0.0007						
SD :	0.09	0.09	0.0001						
%RSD:	22.61	22.61	21.30						

=====  
 Element: Tl    Seq. No.: 45    AS Loc.: 26    Date: 06/23/2006  
 Sample ID: BF62207-blk1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 26  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0008	0.0000	0.0033	0.0022	0.0098	08:42:42	Yes



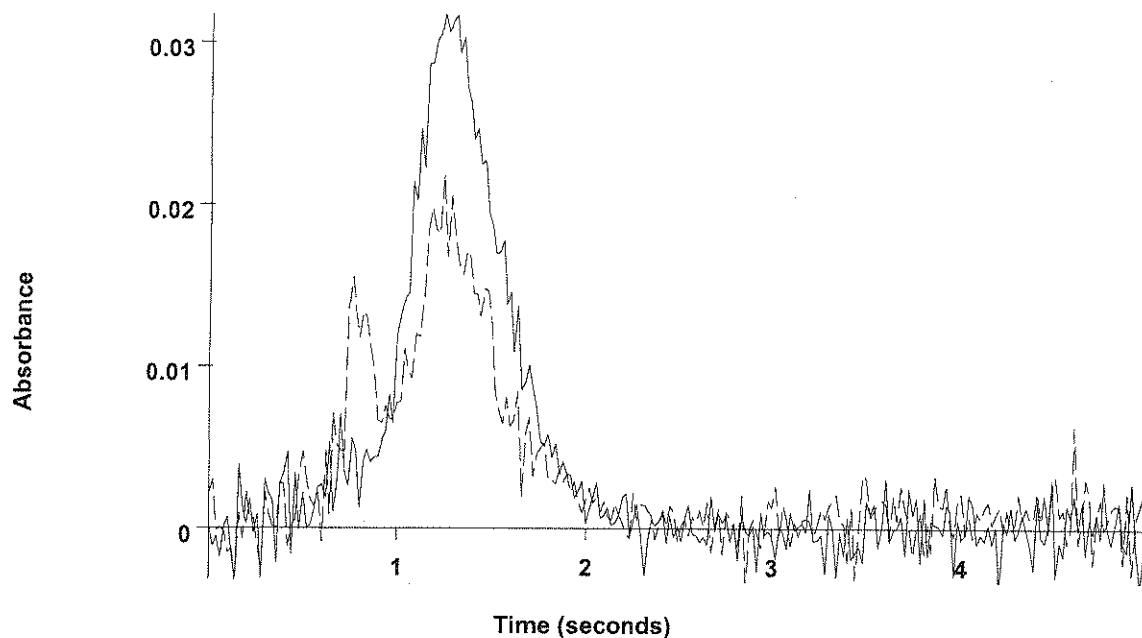
2	0.2	0.2	0.0003	0.0011	0.0044	0.0022	0.0091	08:45:32	Yes
Mean:	-0.2	-0.2	-0.0003						
SD :	0.50	0.50	0.0008						
%RSD:	308.3	308.3	267.93						

*ND*

=====  
 Element: Tl    Seq. No.: 46    AS Loc.: 26    Date: 06/23/2006  
 Sample ID: BF62207-blk1  
 µL dispensed: 7 from 148, 5 from 147, 3 from 131, 15 from 26  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	11.4	11.4	0.0179	0.0187	0.0318	0.0158	0.0218	08:48:28	Yes

Tl



BF62207-blk1  
(Replicate 1)  
(AA)

BF62207-blk1  
(Replicate 1)  
(BG)

2	12.8	12.8	0.0200	0.0208	0.0346	0.0124	0.0200	08:51:24	Yes
Mean:	12.1	12.1	0.0189						
SD :	0.95	0.95	0.0015						
%RSD:	7.81	7.81	7.83						

Recovery for Tl = 121.1 %, greater than upper limit 115 %

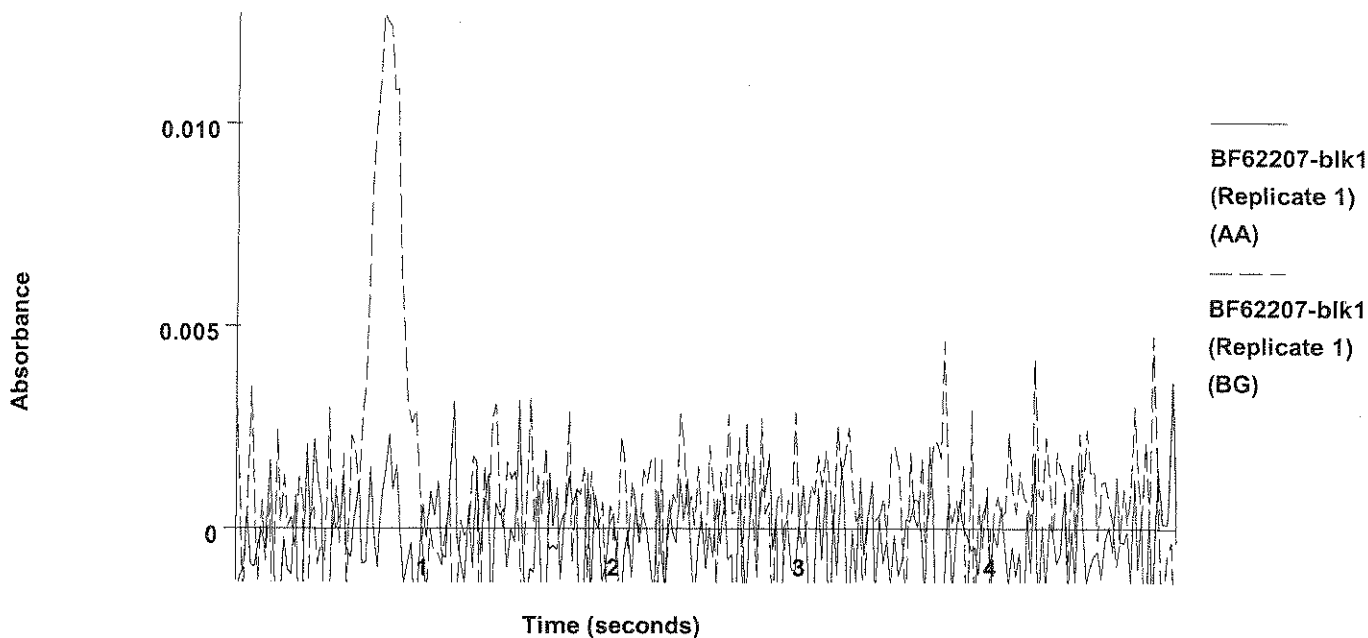
*High*

=====  
 Element: Tl    Seq. No.: 47    AS Loc.: 26    Date: 06/23/2006  
 Sample ID: BF62207-blk1  
 µL dispensed: 20 from 148, 5 from 147, 5 from 26  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-4.0	-1.3	-0.0021	0.0013	0.0037	0.0050	0.0127	08:54:13	Yes



TI

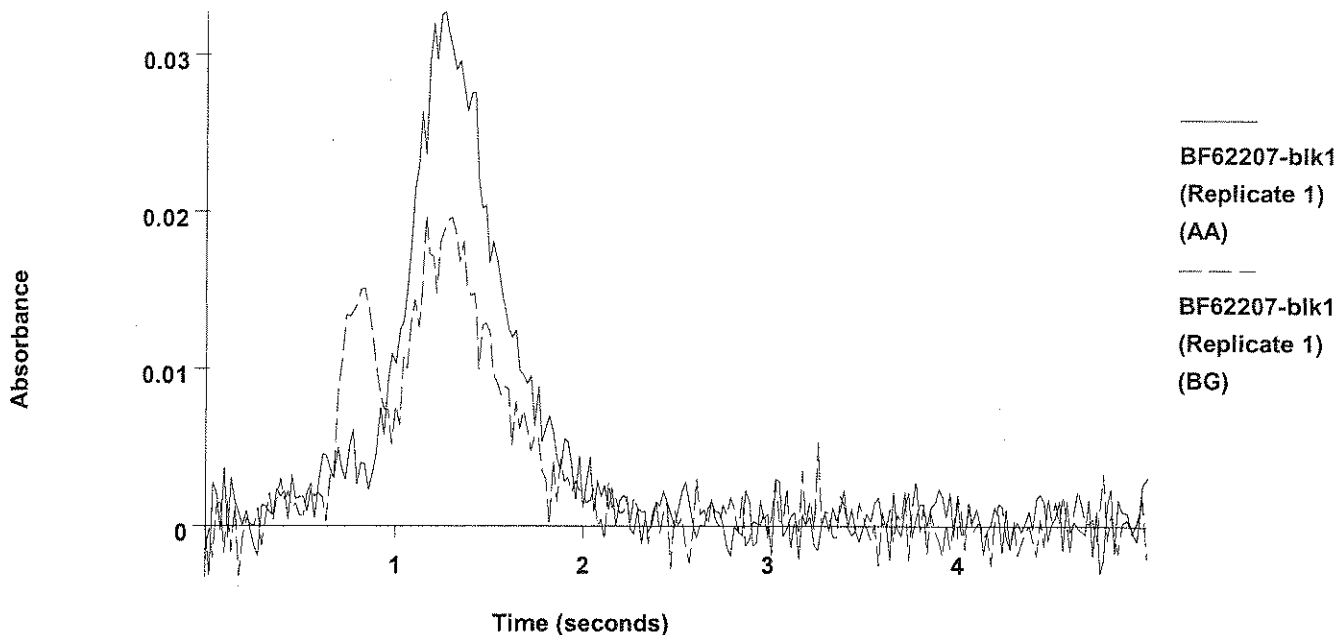


2	-1.9	-0.6	-0.0010	-0.0002	0.0041	0.0044	0.0117	08:57:03	Yes
Mean:	-3.0	-1.0	-0.0016						
SD :	1.50	0.50	0.0008						
%RSD:	50.39	50.39	49.17						

=====  
 Element: Tl    Seq. No.: 48    AS Loc: 26    Date: 06/23/2006  
 Sample ID: BF62207-blk1  
 µL dispensed: 17 from 148, 5 from 147, 3 from 131, 5 from 26  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	38.5	12.8	0.0200	0.0209	0.0327	0.0151	0.0198	09:00:01	Yes

TI



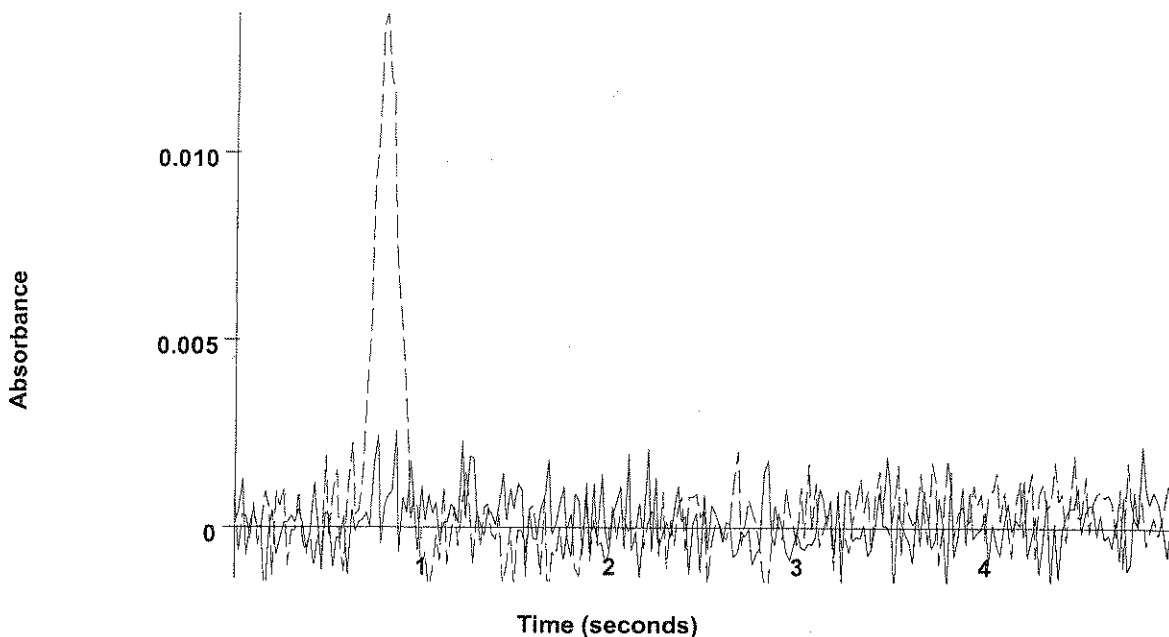
2	37.2	12.4	0.0194	0.0202	0.0341	0.0157	0.0187	09:02:58	Yes
Mean:	37.9	12.6	0.0197						
SD :	0.90	0.30	0.0005						
%RSD:	2.37	2.37	2.38						

Recovery for Tl = 126.2 %, greater than upper limit 115 %

=====  
 Element: Tl    Seq. No.: 49    AS Loc.: 26    Date: 06/23/2006  
 Sample ID: BF62207-blk1  
 µL dispensed: 22 from 148, 5 from 147, 3 from 26  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BInkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	0.0	-0.0001	0.0008	0.0026	0.0030	0.0137	09:05:47	Yes

Tl



BF62207-blk1  
(Replicate 1)  
(AA)

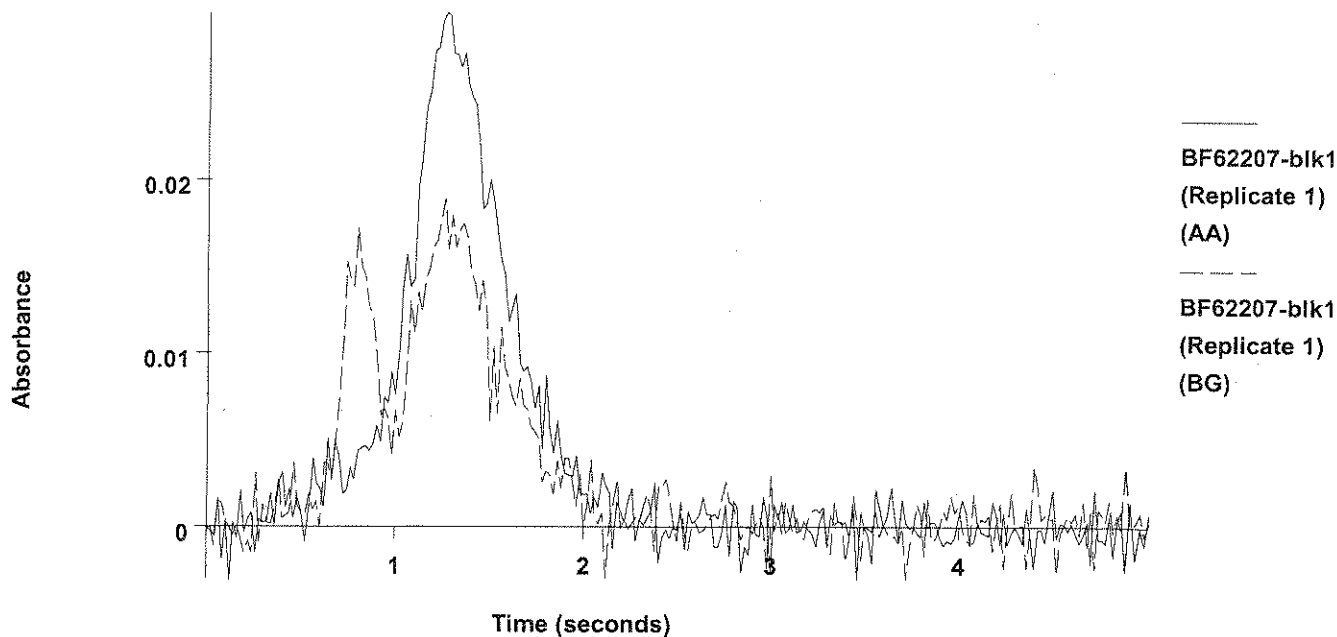
BF62207-blk1  
(Replicate 1)  
(BG)

2	-3.8	-0.8	-0.0012	-0.0004	0.0037	0.0041	0.0134	09:08:36	Yes
Mean:	-2.0	-0.4	-0.0007						
SD :	2.64	0.53	0.0008						
%RSD:	134.7	134.7	126.76						

=====  
 Element: Tl    Seq. No.: 50    AS Loc.: 26    Date: 06/23/2006  
 Sample ID: BF62207-blk1  
 µL dispensed: 19 from 148, 5 from 147, 3 from 131, 3 from 26  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	54.5	10.9	0.0170	0.0179	0.0296	0.0144	0.0189	09:11:32	Yes

Tl



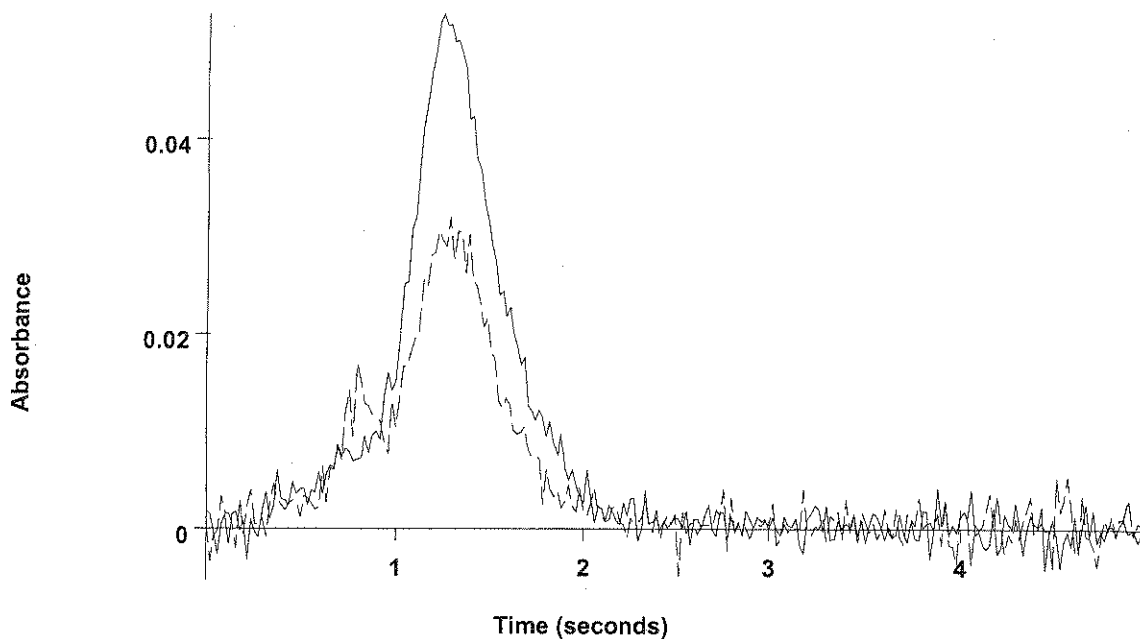
2	53.5	10.7	0.0167	0.0176	0.0301	0.0140	0.0180	09:14:30	Yes
Mean:	54.0	10.8	0.0169						
SD :	0.74	0.15	0.0002						
%RSD:	1.36	1.36	1.37						

Recovery for Tl = 108.0 % within 85 % to 115 %

=====  
 Element: Tl    Seq. No.: 51    AS Loc.: 27    Date: 06/23/2006  
 Sample ID: BF62207-bs2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 27  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.4	20.4	0.0319	0.0328	0.0528	0.0225	0.0319	09:17:20	Yes

Tl



BF62207-bs2  
(Replicate 1)  
(AA)  
BF62207-bs2  
(Replicate 1)  
(BG)

2	19.5	19.5	0.0305	0.0314	0.0535	0.0206	0.0302	09:20:09	Yes
Mean:	20.0	20.0	0.0312						
SD :	0.63	0.63	0.0010						
%RSD:	3.16	3.16	3.16						

1005

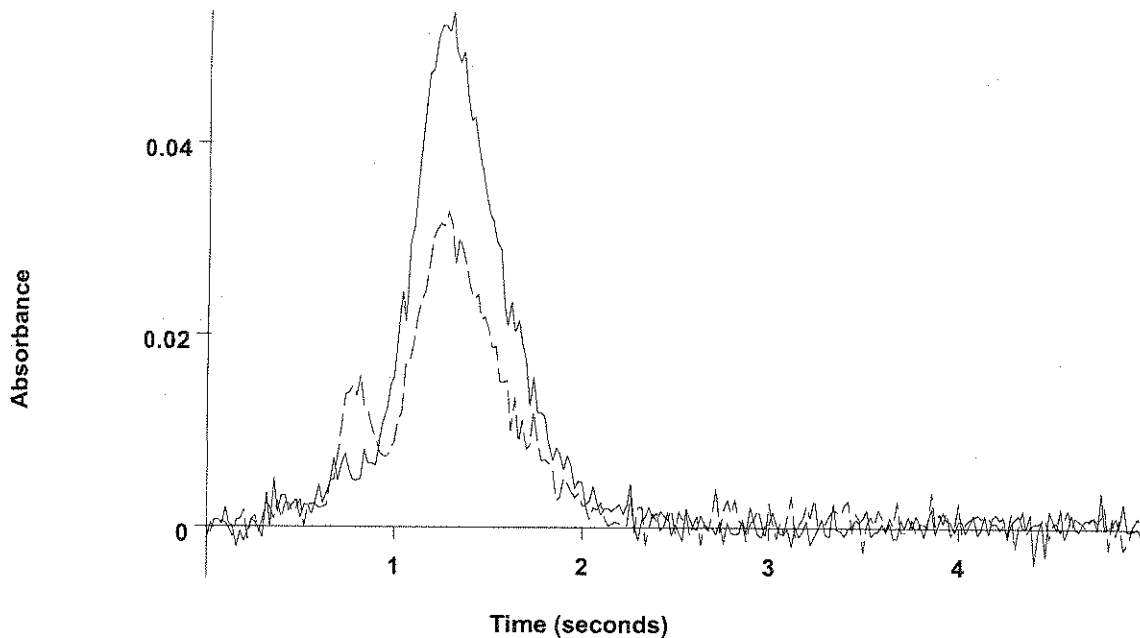
=====  
Element: Tl    Seq. No.: 52    AS Loc.: 28    Date: 06/23/2006

Sample ID: BF62207-bsd2

µL dispensed: 10 from 148, 5 from 147, 15 from 28

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.4	20.4	0.0319	0.0328	0.0536	0.0233	0.0329	09:22:58	Yes

TI



BF62207-bsd2  
(Replicate 1)  
(AA)

BF62207-bsd2  
(Replicate 1)  
(BG)

2	20.0	20.0	0.0313	0.0321	0.0530	0.0220	0.0313	09:25:47	Yes
Mean:	20.2	20.2	0.0316						
SD :	0.28	0.28	0.0004						
%RSD:	1.40	1.40	1.40						

10/51

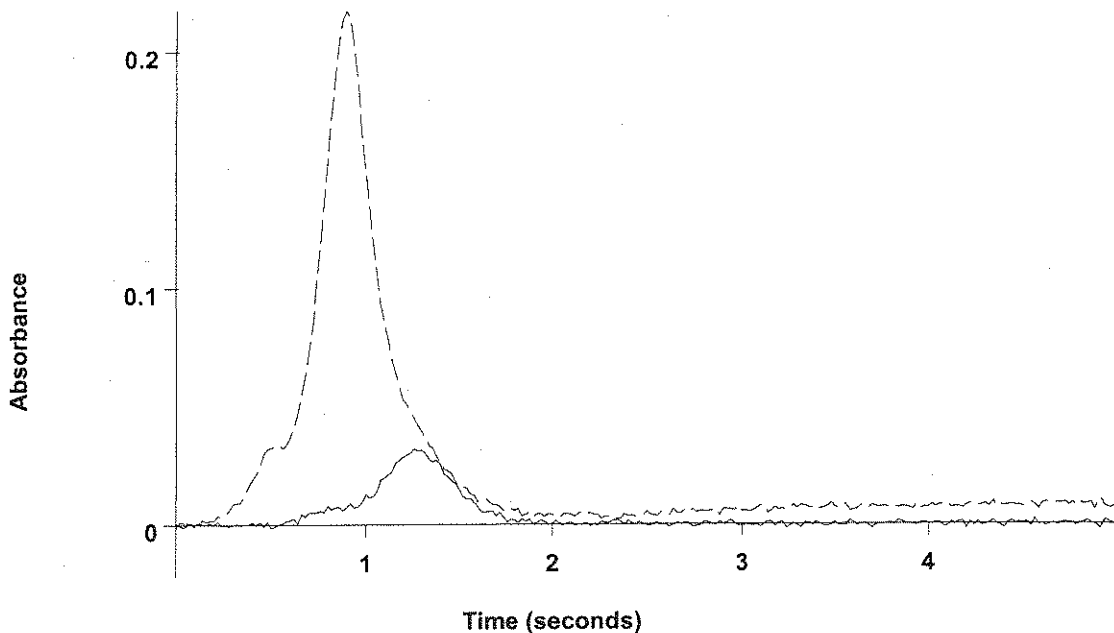
=====  
Element: Tl    Seq. No.: 53    AS Loc.: 29    Date: 06/23/2006

Sample ID: BF62107-blk1

µL dispensed: 10 from 148, 5 from 147, 15 from 29

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	0.0000	0.0008	0.0044	0.0037	0.0105	09:28:37	Yes

Tl



0606321-04  
(Replicate 1)  
(AA)

0606321-04  
(Replicate 1)  
(BG)

2	11.6	11.6	0.0180	0.0189	0.0385	0.1229	0.2337	11:14:13	Yes
Mean:	10.8	10.8	0.0169						
SD :	1.08	1.08	0.0017						
%RSD:	9.98	9.98	10.00						

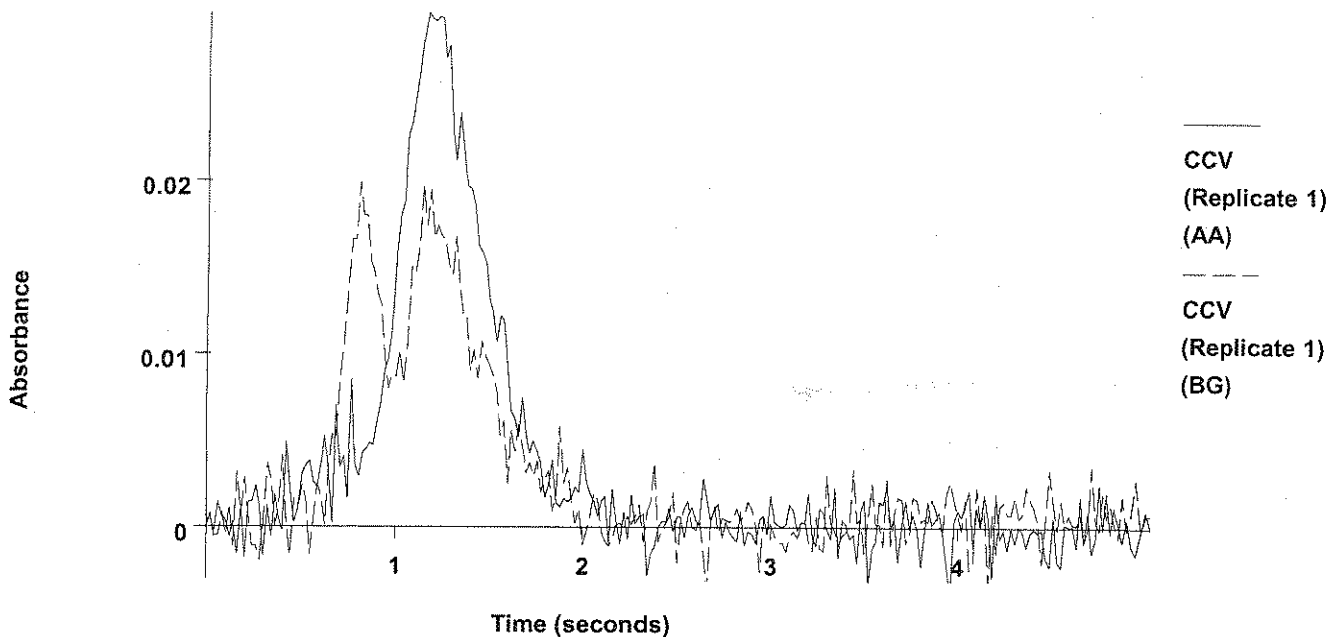
Recovery for Tl = 108.0 % within 85 % to 115 %



=====  
 Element: Tl    Seq. No.: 72    AS Loc.: 124    Date: 06/23/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 124  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	10.6	10.6	0.0165	0.0174	0.0297	0.0148	0.0199	11:17:05	Yes

T1



2	10.6	10.6	0.0165	0.0174	0.0308	0.0139	0.0190	11:19:56	Yes
Mean:	10.6	10.6	0.0165						
SD :	0.01	0.01	0.0000						
%RSD:	0.12	0.12	0.12						

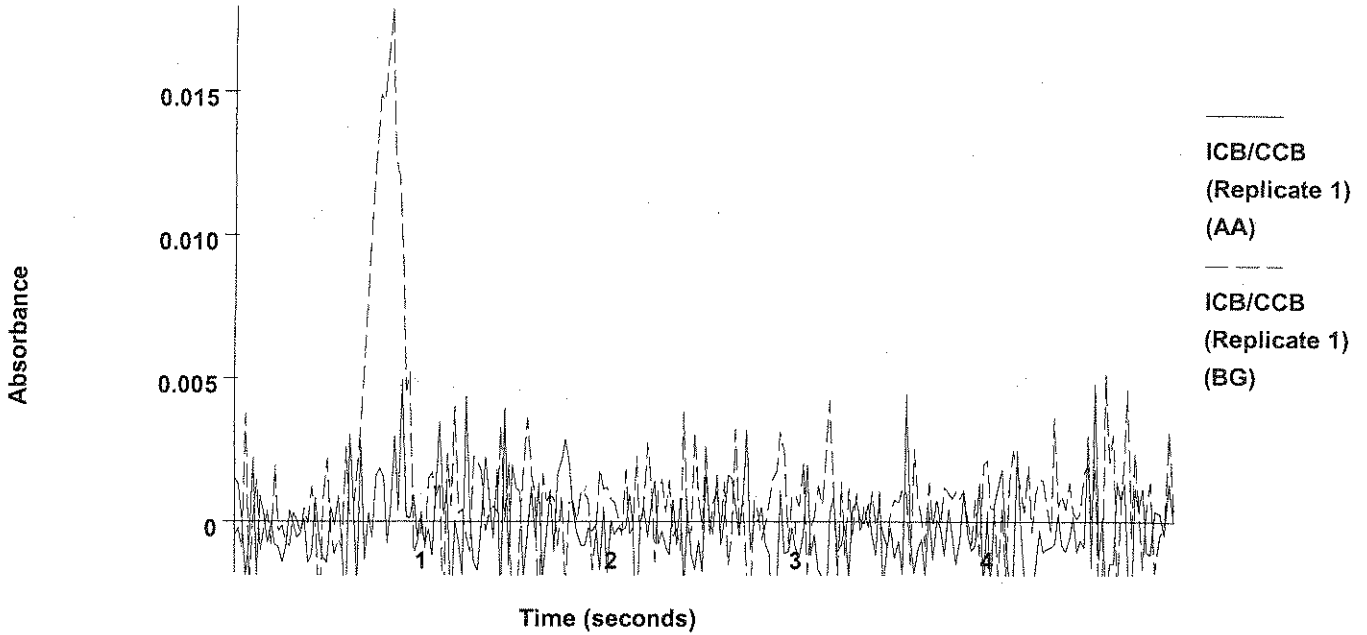
QC value within specified limits. ✓

=====  
 Element: T1    Seq. No.: 73    AS Loc.: 148    Date: 06/23/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-1.1	-1.1	-0.0017	-0.0009	0.0049	0.0054	0.0179	11:22:47	Yes



TI



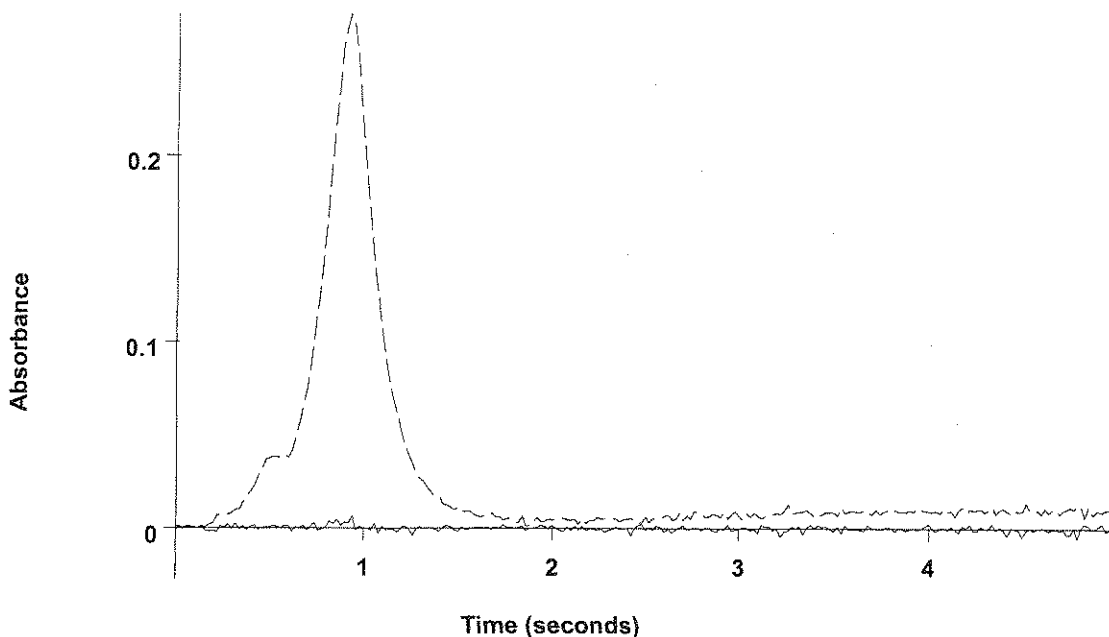
2	0.1	0.1	0.0001	0.0010	0.0040	0.0065	0.0170	11:25:37	Yes
Mean:	-0.5	-0.5	-0.0008						
SD :	0.84	0.84	0.0013						
%RSD:	175.7	175.7	167.16						

QC value within specified limits.

=====  
 Element: Tl    Seq. No.: 74    AS Loc.: 45    Date: 06/23/2006  
 Sample ID: BF62107-dup2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 45  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0008	0.0001	0.0068	0.1294	0.2758	11:28:27	Yes

Tl



BF62107-dup2  
(Replicate 1)  
(AA)

BF62107-dup2  
(Replicate 1)  
(BG)

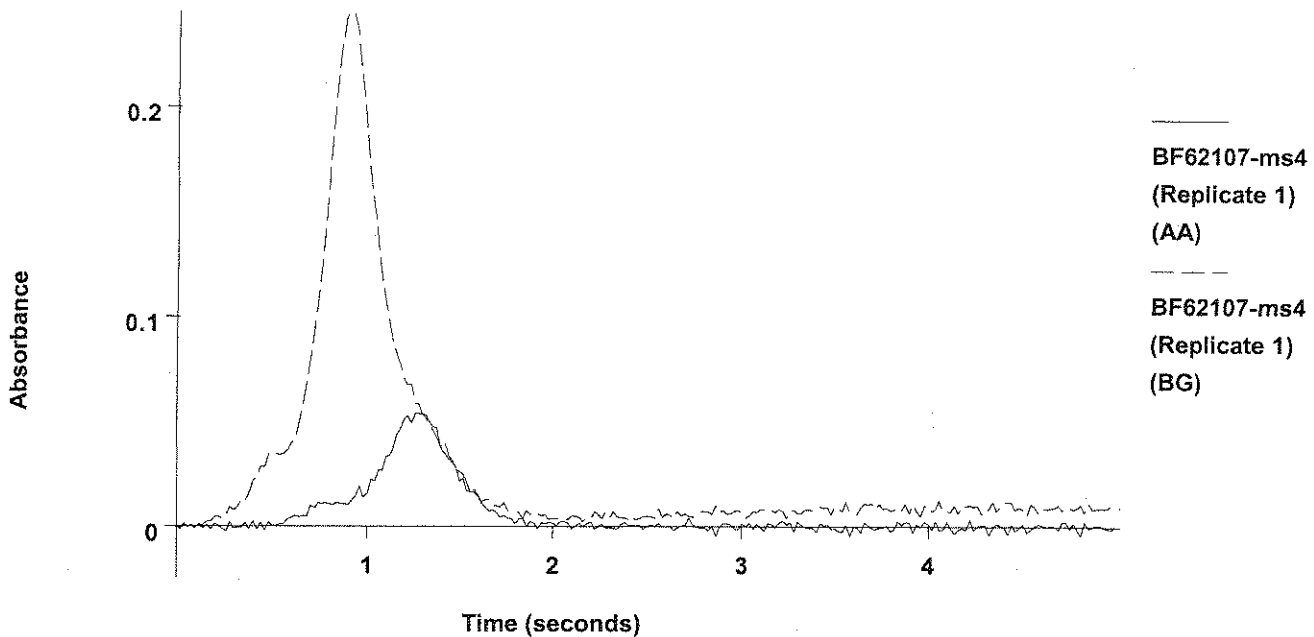
2	-0.8	-0.8	-0.0012	-0.0004	0.0058	0.1234	0.2542	11:31:18	Yes
Mean:	-0.6	-0.6	-0.0010						
SD :	0.21	0.21	0.0003						
%RSD:	34.94	34.94	33.58						

*Handwritten signature*

=====  
 Element: Tl    Seq. No.: 75    AS Loc.: 46    Date: 06/23/2006  
 Sample ID: BF62107-ms4  
 µL dispensed: 10 from 148, 5 from 147, 15 from 46  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	17.0	17.0	0.0266	0.0275	0.0540	0.1346	0.2452	11:34:08	Yes

Tl



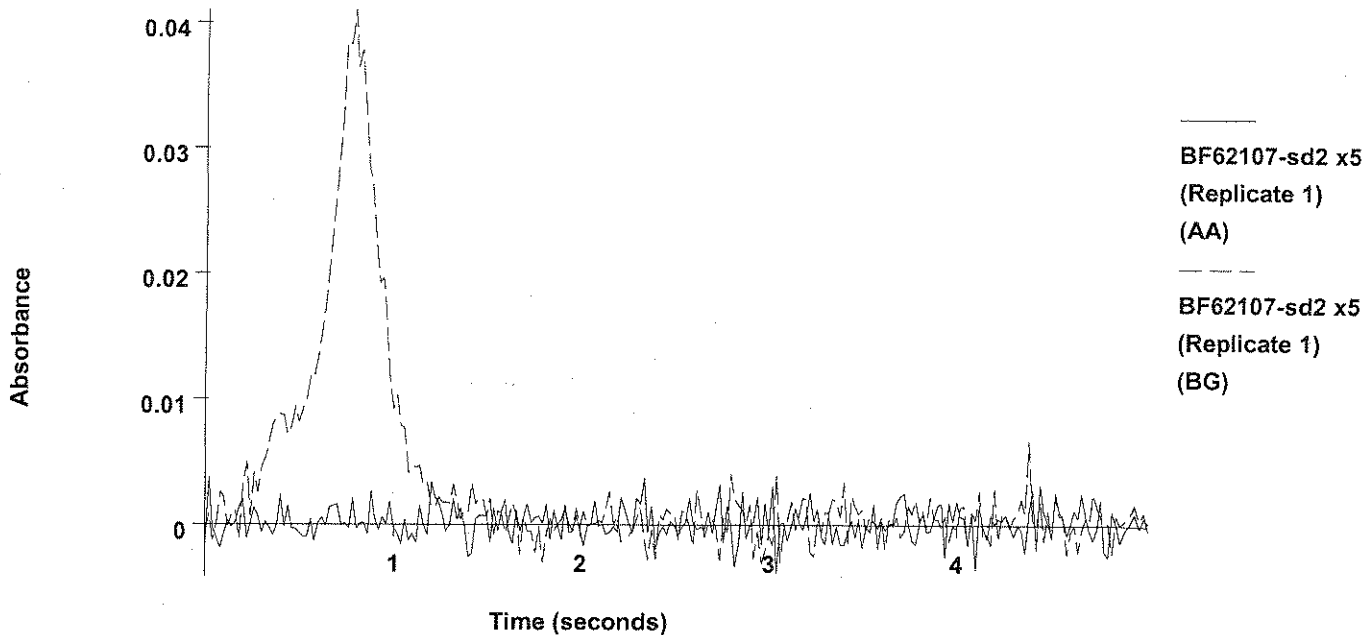
2	17.0	17.0	0.0265	0.0274	0.0525	0.1346	0.2357	11:37:00	Yes
Mean:	17.0	17.0	0.0266						
SD :	0.03	0.03	0.0000						
%RSD:	0.15	0.15	0.15						

855

=====  
 Element: Tl    Seq. No.: 76    AS Loc.: 47    Date: 06/23/2006  
 Sample ID: BF62107-sd2 x5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 47  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	0.0000	0.0009	0.0037	0.0161	0.0410	11:39:51	Yes

TI



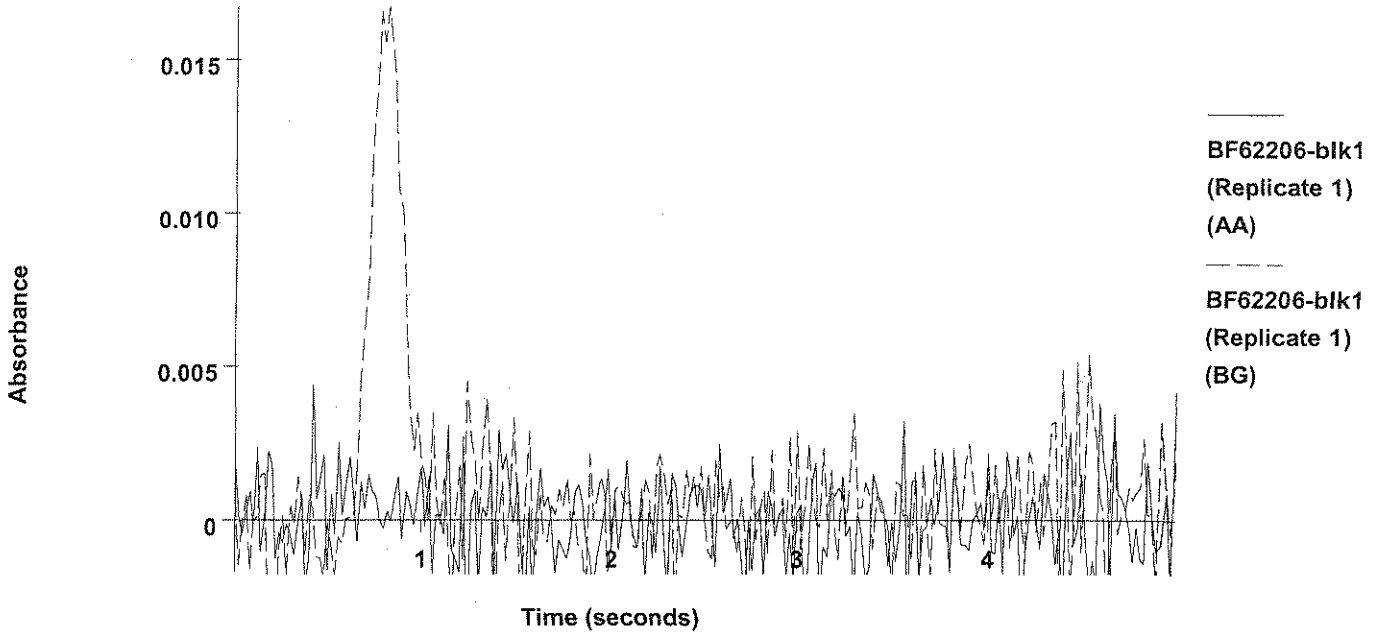
2	-0.2	-0.2	-0.0004	0.0005	0.0047	0.0132	0.0335	11:42:40	Yes
Mean:	-0.1	-0.1	-0.0002						
SD :	0.19	0.19	0.0003						
%RSD:	212.3	212.3	166.52						

*Handwritten signature*

=====  
 Element: Tl    Seq. No.: 77    AS Loc.: 122    Date: 06/23/2006  
 Sample ID: BF62206-blk1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 122  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0006	0.0003	0.0044	0.0052	0.0167	11:45:30	Yes

Tl



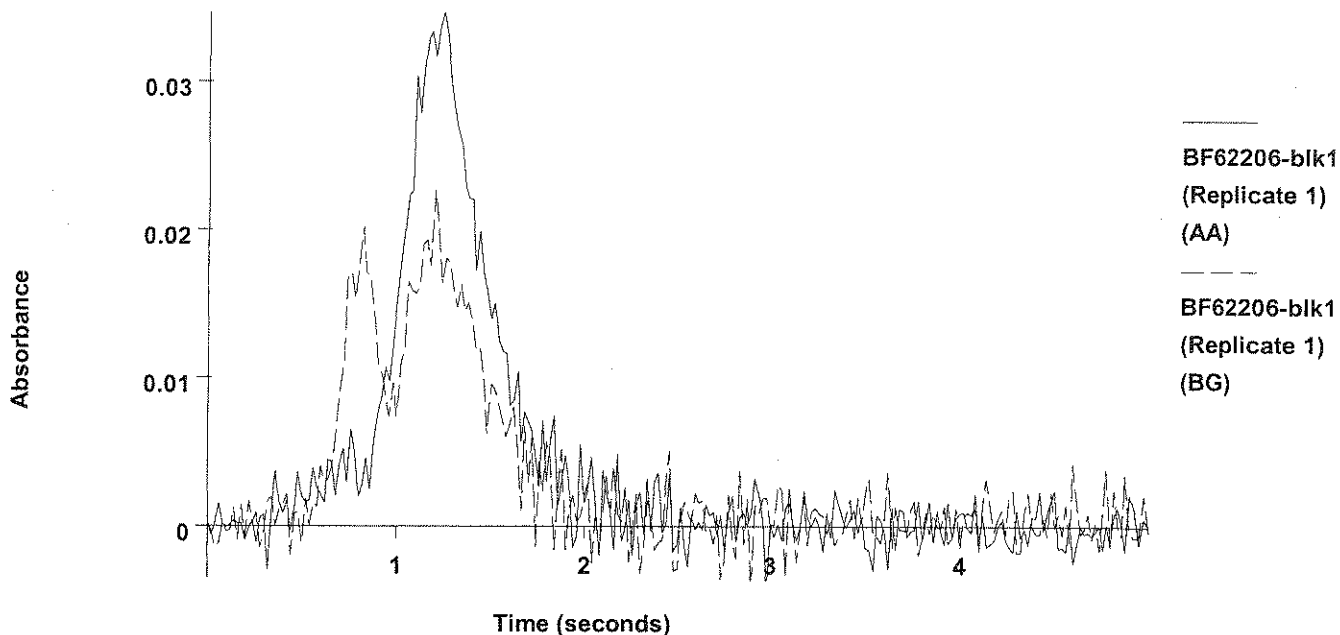
2	0.6	0.6	0.0008	0.0017	0.0056	0.0039	0.0154	11:48:21	Yes
Mean:	0.1	0.1	0.0001						
SD :	0.63	0.63	0.0010						
%RSD:	539.2	539.2	683.15						

*Handwritten signature or initials*

=====  
 Element: Tl    Seq. No.: 78    AS Loc.: 122    Date: 06/23/2006  
 Sample ID: BF62206-blk1  
 µL dispensed: 7 from 148, 5 from 147, 3 from 131, 15 from 122  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	11.8	11.8	0.0184	0.0193	0.0347	0.0155	0.0227	11:51:21	Yes

TI



2	11.1	11.1	0.0174	0.0182	0.0316	0.0150	0.0196	11:54:22	Yes
Mean:	11.4	11.4	0.0179						
SD :	0.47	0.47	0.0007						
%RSD:	4.07	4.07	4.08						

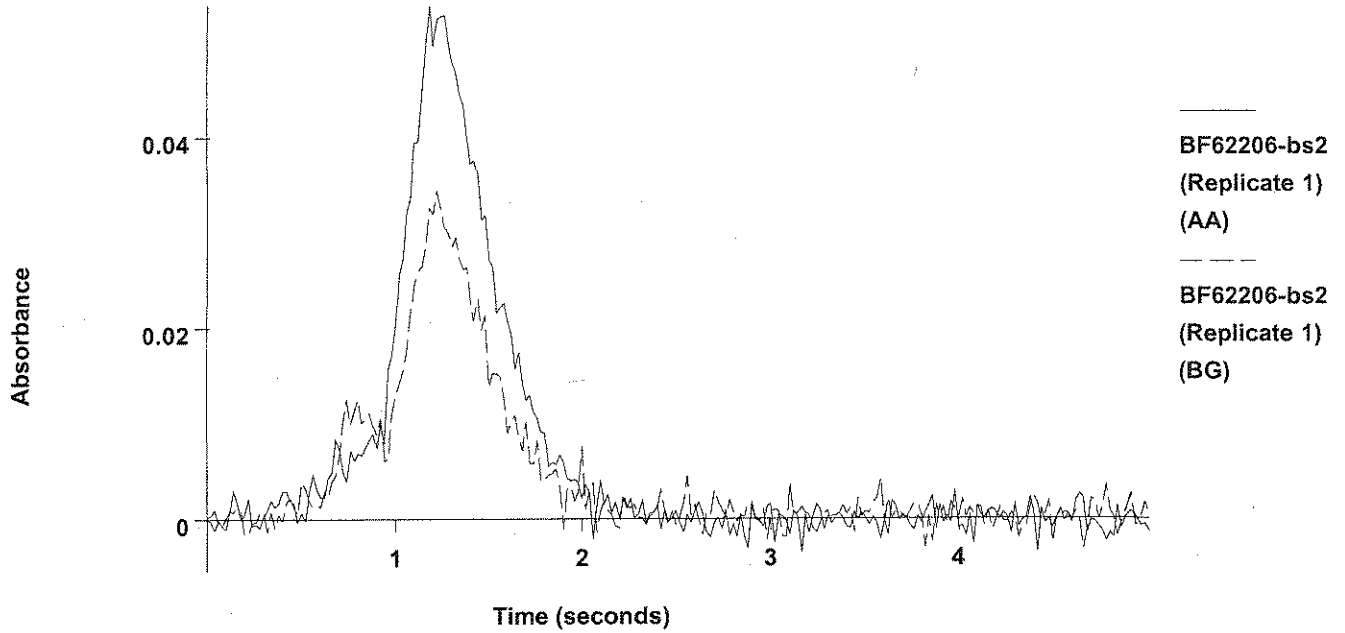
Recovery for Tl = 114.5 % within 85 % to 115 %



=====  
 Element: Tl    Seq. No.: 79    AS Loc.: 123    Date: 06/23/2006  
 Sample ID: BF62206-bs2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 123  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.0	19.0	0.0298	0.0306	0.0538	0.0216	0.0344	11:57:13	Yes

Tl



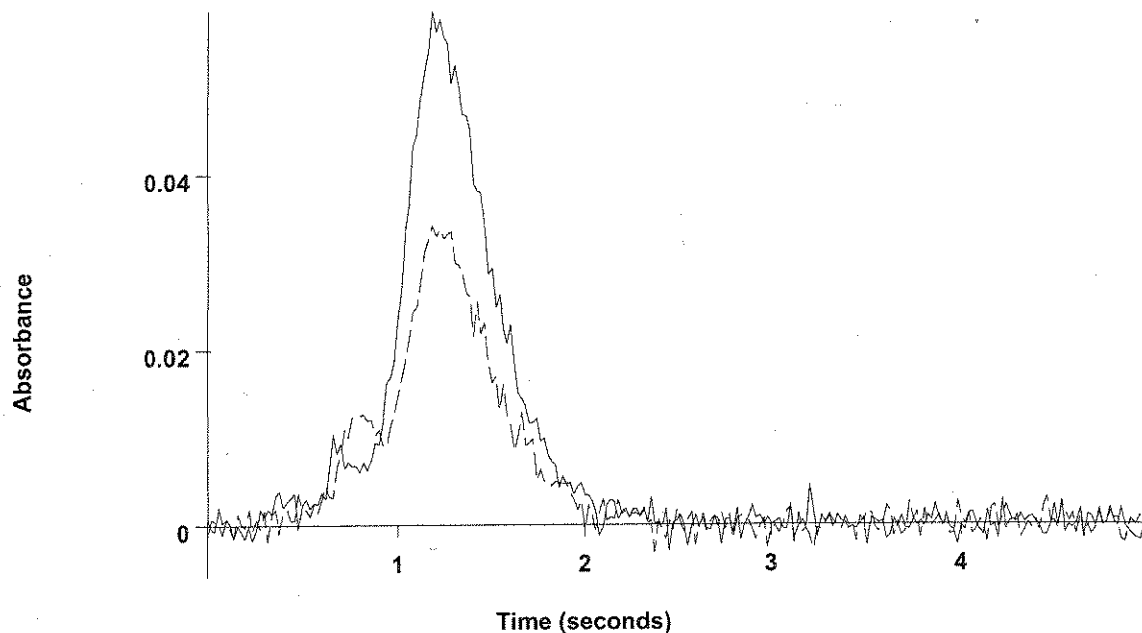
2	20.2	20.2	0.0315	0.0324	0.0539	0.0222	0.0333	12:00:05	Yes
Mean:	19.6	19.6	0.0307						
SD :	0.80	0.80	0.0013						
%RSD:	4.10	4.10	4.10						

985

=====  
 Element: Tl    Seq. No.: 80    AS Loc.: 125    Date: 06/24/2006  
 Sample ID: BF62206-bsd2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 125  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	21.2	21.2	0.0331	0.0340	0.0587	0.0222	0.0342	12:02:58	Yes

TI



BF62206-bsd2  
(Replicate 1)  
(AA)

BF62206-bsd2  
(Replicate 1)  
(BG)

2	20.0	20.0	0.0312	0.0321	0.0571	0.0234	0.0335	12:05:51	Yes
Mean:	20.6	20.6	0.0322						
SD :	0.87	0.87	0.0014						
%RSD:	4.21	4.21	4.21						

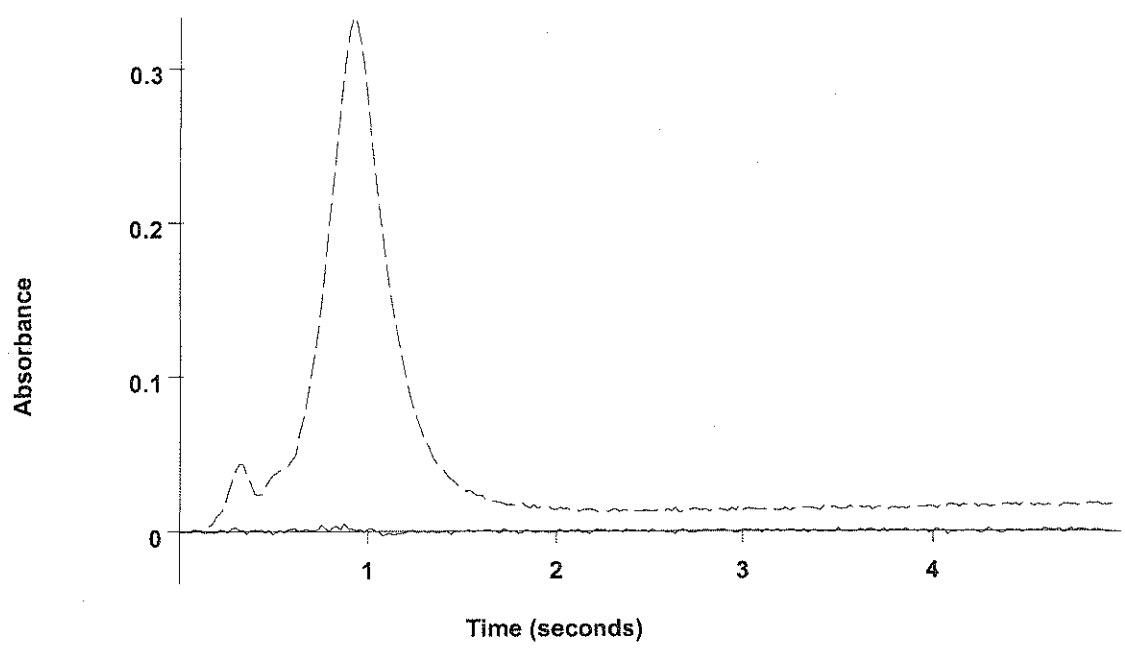
1035

=====  
 Element: Tl    Seq. No.: 81    AS Loc.: 127    Date: 06/24/2006  
 Sample ID: 0606341-01dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 127  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0007	0.0002	0.0041	0.1584	0.2045	12:08:44	Yes



TI



0606341-01  
 (Replicate 1)  
 (AA)  
 -----  
 0606341-01  
 (Replicate 1)  
 (BG)

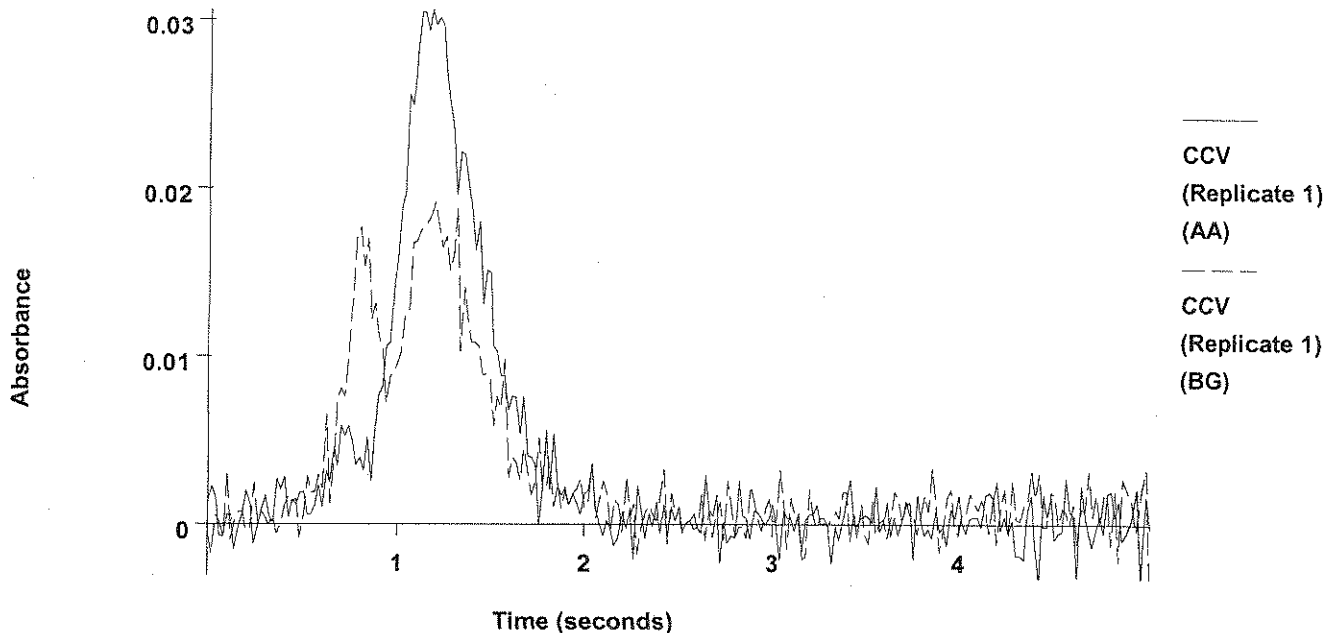
2	-0.3	-0.3	-0.0005	0.0004	0.0041	0.1937	0.3159	12:28:42	Yes
Mean:	-0.3	-0.3	-0.0004						
SD :	0.06	0.06	0.0001						
%RSD:	21.88	21.88	19.94						

*JD*

=====  
 Element: Tl    Seq. No.: 85    AS Loc.: 124    Date: 06/24/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 124  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	10.8	10.8	0.0168	0.0177	0.0306	0.0154	0.0191	12:31:32	Yes

Tl



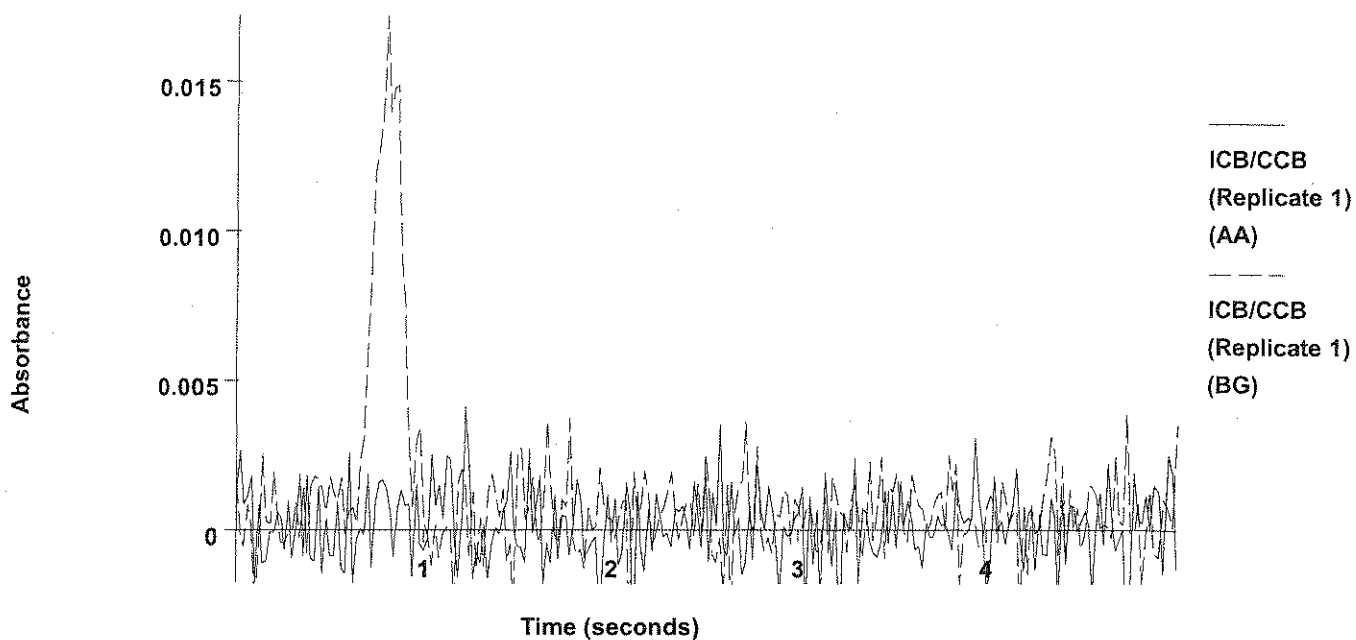
2	11.0	11.0	0.0171	0.0180	0.0323	0.0146	0.0221	12:34:25	Yes
Mean:	10.9	10.9	0.0170						
SD :	0.12	0.12	0.0002						
%RSD:	1.10	1.10	1.10						

QC value within specified limits. ✓

=====  
 Element: Tl    Seq. No.: 86    AS Loc.: 148    Date: 06/24/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	-0.0001	0.0008	0.0041	0.0053	0.0172	12:37:15	Yes

TI



2	-0.1	-0.1	-0.0002	0.0007	0.0032	0.0051	0.0171	12:40:04	Yes
Mean:	-0.1	-0.1	-0.0001						
SD :	0.04	0.04	0.0001						
%RSD:	70.26	70.26	49.89						

QC value within specified limits.

=====  
 Element: Tl    Seq. No.: 87    AS Loc.: 133    Date: 06/24/2006  
 Sample ID: 0606341-02  
 µL dispensed: 10 from 148, 5 from 147, 15 from 133  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0003	0.0012	0.0037	0.0090	0.0171	12:42:55	Yes

## ANALYSIS SEQUENCE

BPG0210

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0210-CAL1	QC		1		6F21081		
BPG0210-CAL2	QC		2		6F24011		
BPG0210-CAL3	QC		3		6F24012		
BPG0210-CAL4	QC		4		6F24013		
BPG0210-CAL5	QC		5		6F20014		
BPG0210-ICV1	QC		6		6F24013		
BPG0210-SCV1	QC		7		6F29014		
BPG0210-ICB1	QC		8				
BF62206-BLK4	QC		9				
BF62206-BS4	QC		10				
BF62206-BSD4	QC		11				
BPG0210-CCB1	QC		12				
BPG0210-CCV1	QC		13		6F24013		
BF62207-BLK3	QC		14				
BF62207-BS3	QC		15				
BF62207-BSD3	QC		16				
BPG0210-CCB2	QC		17				
BPG0210-CCV2	QC		18		6F24013		

Samples Loaded By

Date

476

Data Processed By

Date

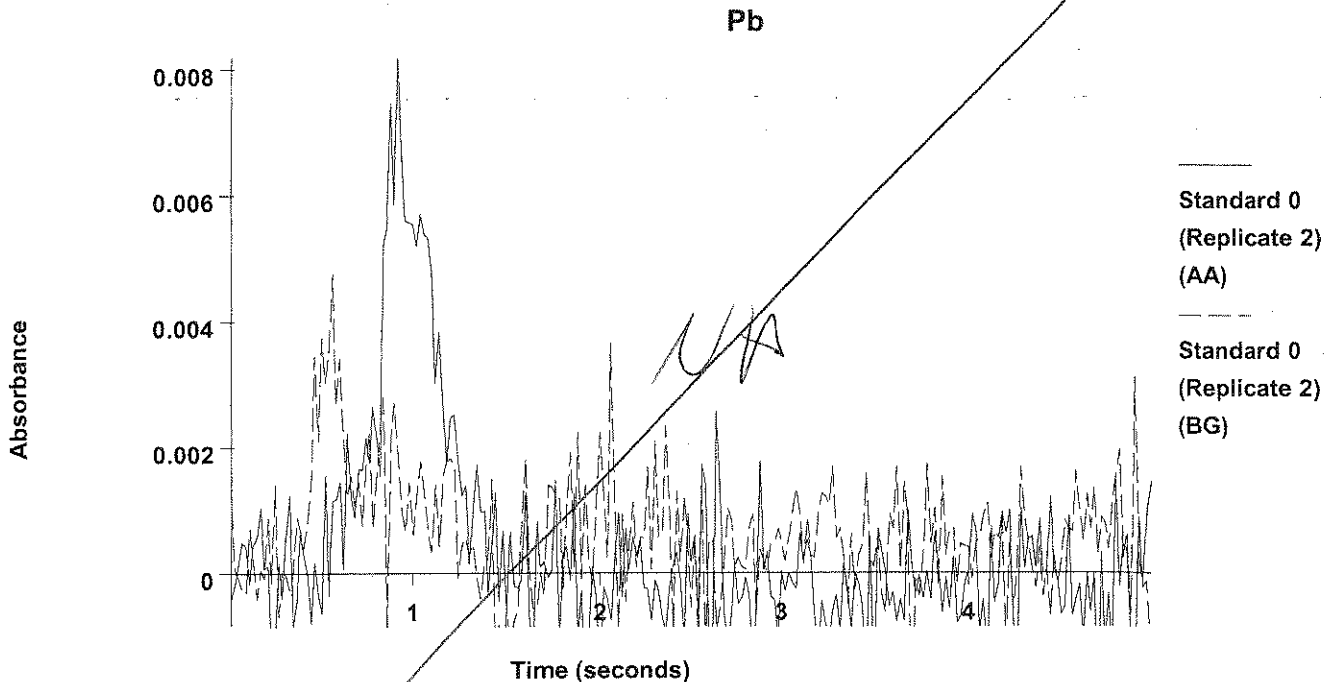
Method Name: Pb 2  
 Method Description: Pb  
 Element: Pb

Date: 06/24/2006  
 Technique: Furnace  
 Calibration Type:  
 Pb, Calc. Intercept : Linear  
 Wavelength: 283.3 nm  
 Energy: 100  
 Slit Width: 0.7  
 Lamp Current: 10 mA  
 Sample Info Name: 062306YA.SIF

Results Data Set Name: 062406yad

Element: Pb Seq. No.: 1 AS Loc.: 141 Date: 06/24/2006  
 Sample ID: Standard 0  
 µL dispensed: 10 from 141, 5 from 146, 15 from 141

Repl #	SampleConc	StndConc	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0036	0.0036	0.0078	0.0025	0.0034	09:43:28	Yes
2			0.0022	0.0022	0.0082	0.0033	0.0048	09:46:20	Yes

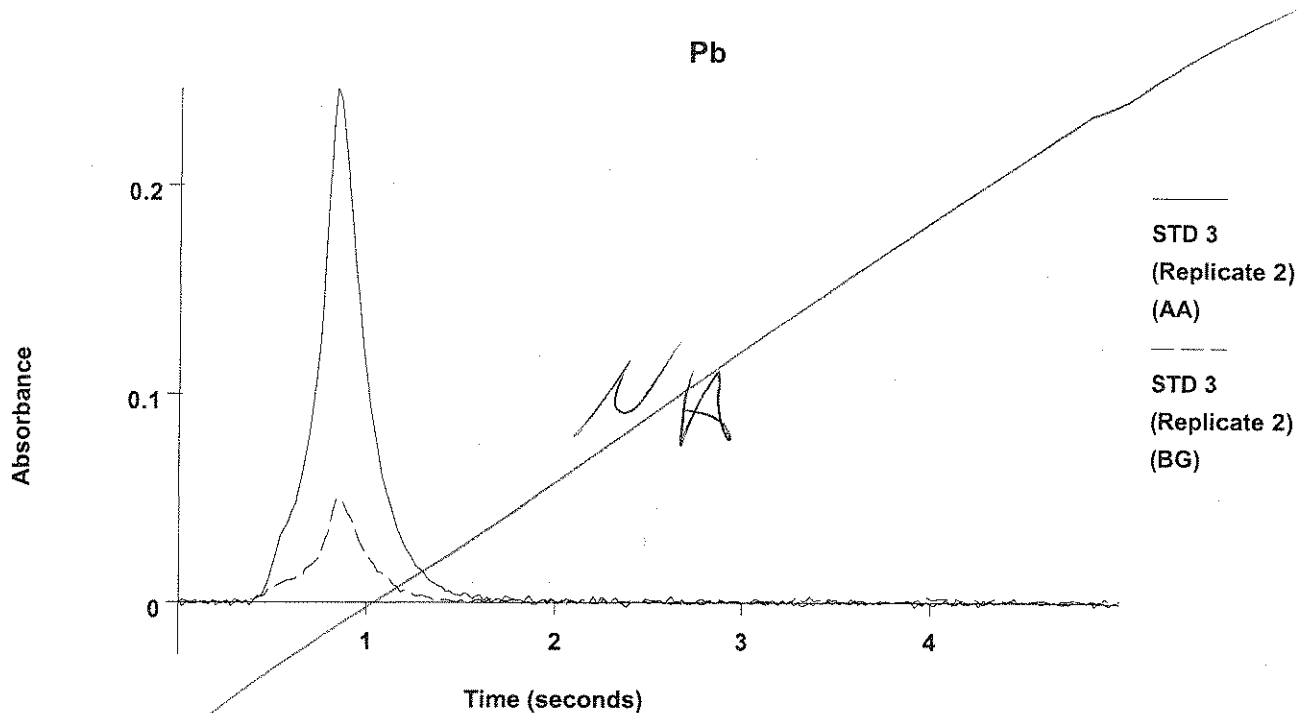


Mean: 0.0029  
 SD : 0.0010  
 %RSD: 33.40  
 Auto-zero performed.

Element: Pb Seq. No.: 2 AS Loc.: 121 Date: 06/24/2006  
 Sample ID: Standard 5  
 µL dispensed: 10 from 141, 5 from 146, 15 from 121

Repl #	SampleConc	StndConc	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0132	0.0161	0.0474	0.0051	0.0093	09:49:38	Yes
2			0.0134	0.0164	0.0470	0.0051	0.0104	09:52:31	Yes

477

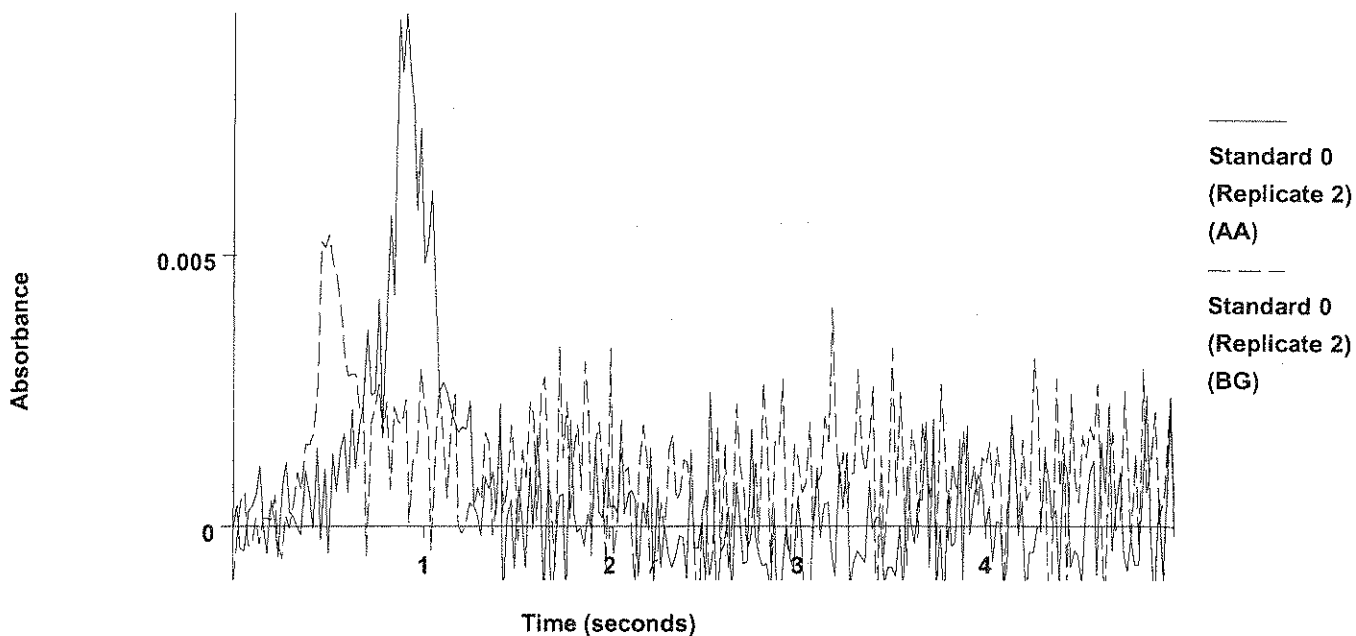


Mean: 30.0 30.0 0.0786  
 SD : 2.58 2.58 0.0067  
 %RSD: 8.59 8.59 8.54

=====  
 Element: Pb Seq. No.: 8 AS Loc.: 141 Date: 06/24/2006  
 Sample ID: Standard 0  
 µL dispensed: 10 from 141, 5 from 146, 15 from 141

Repl #	SampleConc	StndConc	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0029	0.0029	0.0083	0.0044	0.0053	10:26:31	Yes
2			0.0031	0.0031	0.0095	0.0053	0.0054	10:29:23	Yes

Pb

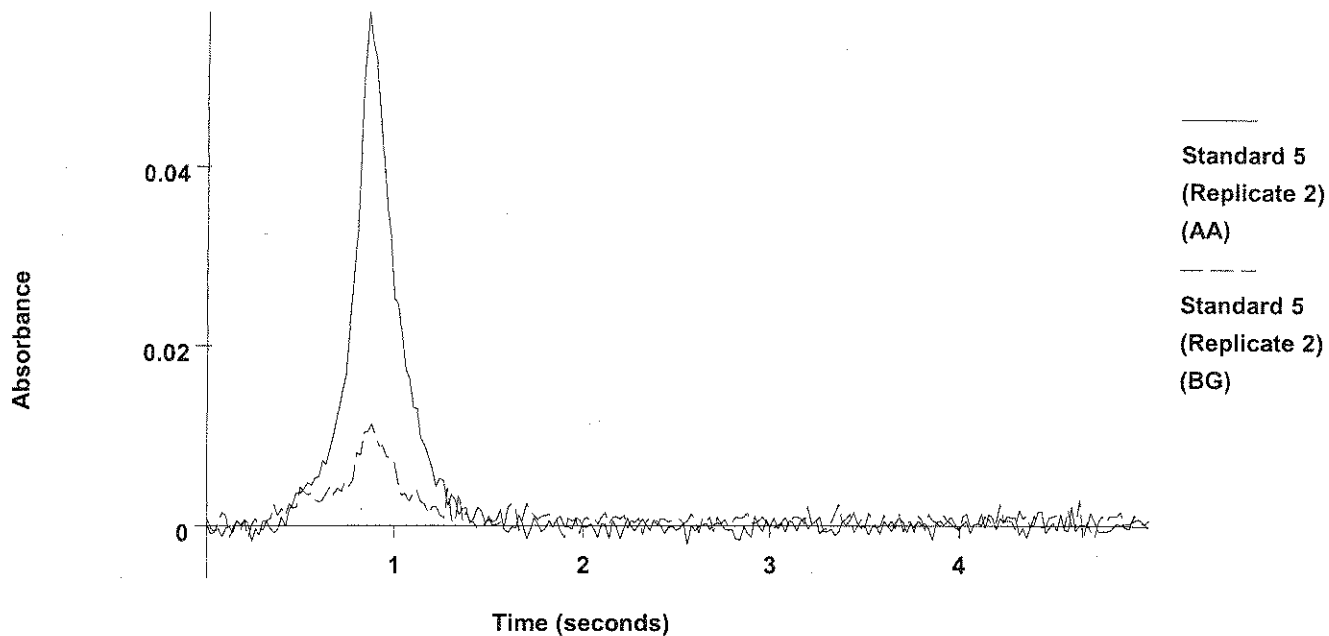


Mean: 0.0030  
 SD : 0.0002  
 %RSD: 6.71  
 Auto-zero performed.

=====  
 Element: Pb    Seq. No.: 9    AS Loc.: 121    Date: 06/24/2006  
 Sample ID: Standard 5  
 µL dispensed: 10 from 141, 5 from 146, 15 from 121  
 =====

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0129	0.0159	0.0566	0.0066	0.0113	10:32:41	Yes
2			0.0131	0.0161	0.0573	0.0063	0.0113	10:35:34	Yes

Pb



Mean: 0.0130  
 SD : 0.0001  
 %RSD: 1.05  
 [Pb] Standard number 1 applied. [5.0]  
 Correlation Coefficient: 1.00000  
 Intercept : 0.00000

Slope: 0.00261

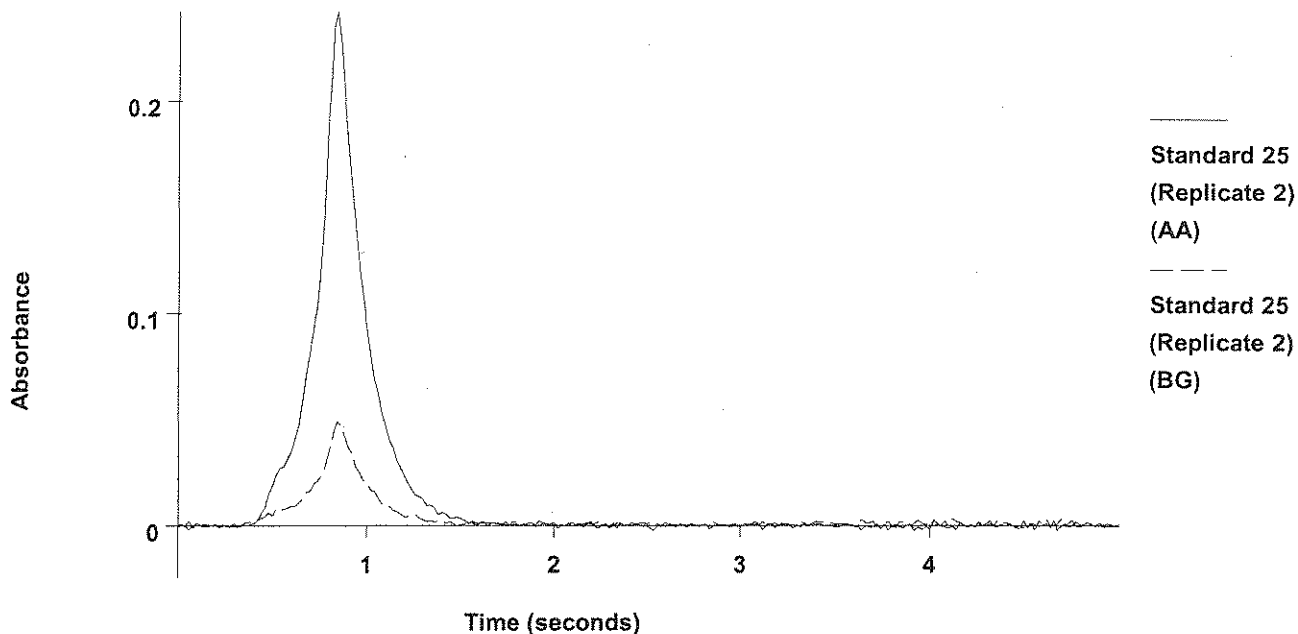
=====  
 Element: Pb Seq. No.: 10 AS Loc.: 124 Date: 06/24/2006  
 Sample ID: Standard 10  
 µL dispensed: 10 from 141, 5 from 146, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0245	0.0275	0.0974	0.0095	0.0185	10:38:55	Yes
2			0.0244	0.0274	0.1016	0.0108	0.0200	10:41:48	Yes





Pb



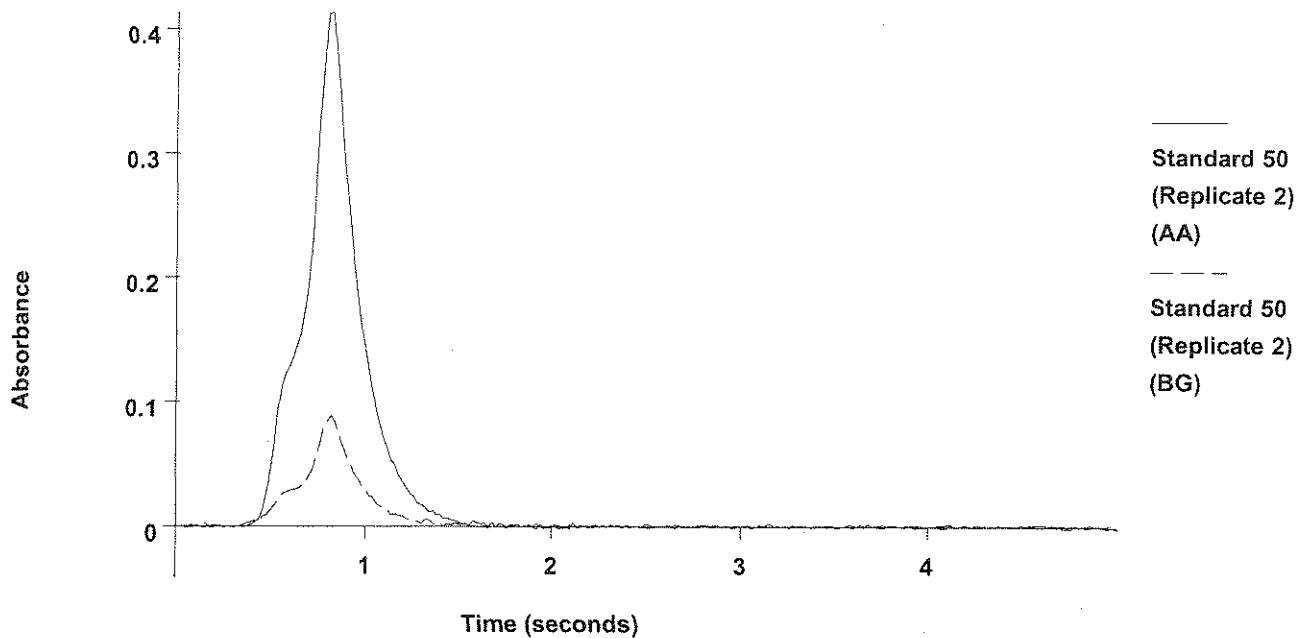
Mean: 0.0668  
 SD : 0.0009  
 %RSD: 1.34  
 [Pb] Standard number 3 applied. [25.0]  
 Correlation Coefficient: 0.99929  
 Intercept : -0.00069

Slope: 0.00267

=====  
 Element: Pb Seq. No.: 12 AS Loc.: 129 Date: 06/24/2006  
 Sample ID: Standard 50  
 µL dispensed: 10 from 141, 5 from 146, 15 from 129

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.1299	0.1329	0.3690	0.0296	0.0767	10:51:22	Yes
2			0.1309	0.1339	0.4130	0.0303	0.0890	10:54:15	Yes

Pb

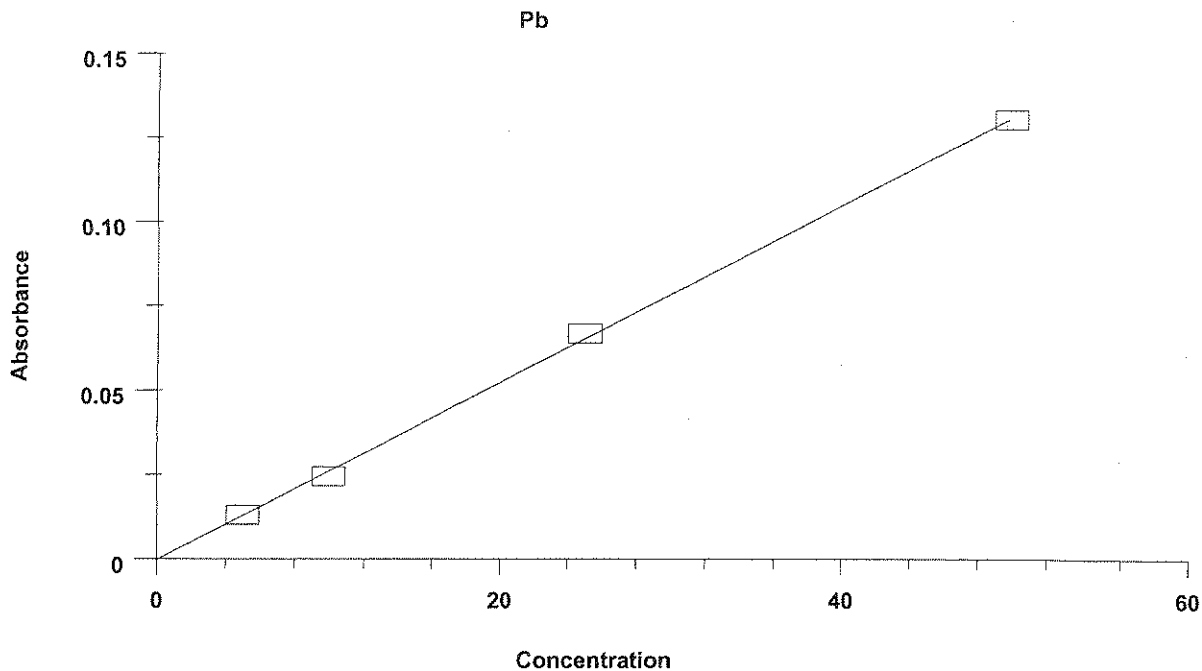


-----  
 Standard 50  
 (Replicate 2)  
 (AA)  
 -----  
 Standard 50  
 (Replicate 2)  
 (BG)

Mean: 0.1304  
 SD : 0.0007  
 %RSD: 0.56  
 [Pb] Standard number 4 applied. [50.0]  
 Correlation Coefficient: 0.99979 Slope: 0.00262  
 Intercept : -0.00028

Calibration data for Pb

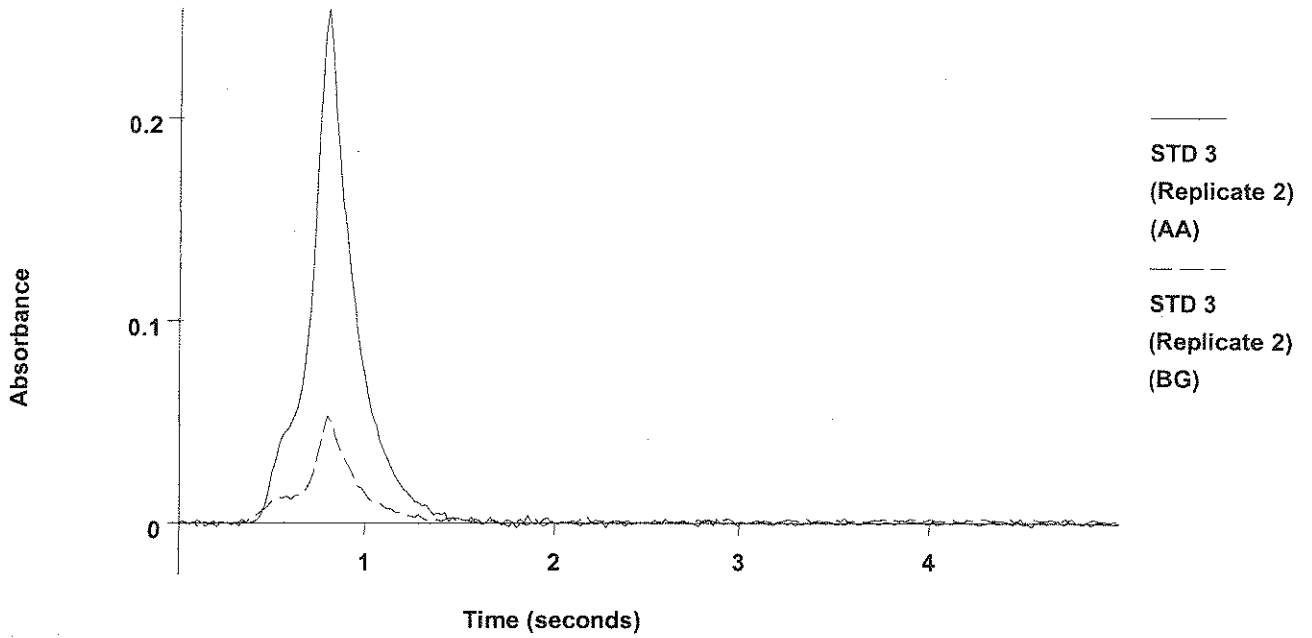
Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	0.0030	-	----	----	----
Standard 5	0.0130	5.0	5.1	0.00	1.05
Standard 10	0.0244	10.0	9.4	0.00	0.15
Standard 25	0.0668	25.0	25.6	0.00	1.34
Standard 50	0.1304	50.0	49.8	0.00	0.56
Correlation Coefficient: 0.99979		Slope:	0.00262	Intercept:	-0.0003



=====  
 Element: Pb    Seq. No.: 13    AS Loc.: 126    Date: 06/24/2006  
 Sample ID: STD 3  
 µL dispensed: 10 from 141, 5 from 146, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.0	26.0	0.0678	0.0708	0.2452	0.0171	0.0496	10:57:13	Yes
2	25.8	25.8	0.0673	0.0703	0.2540	0.0193	0.0529	11:00:07	Yes

Pb



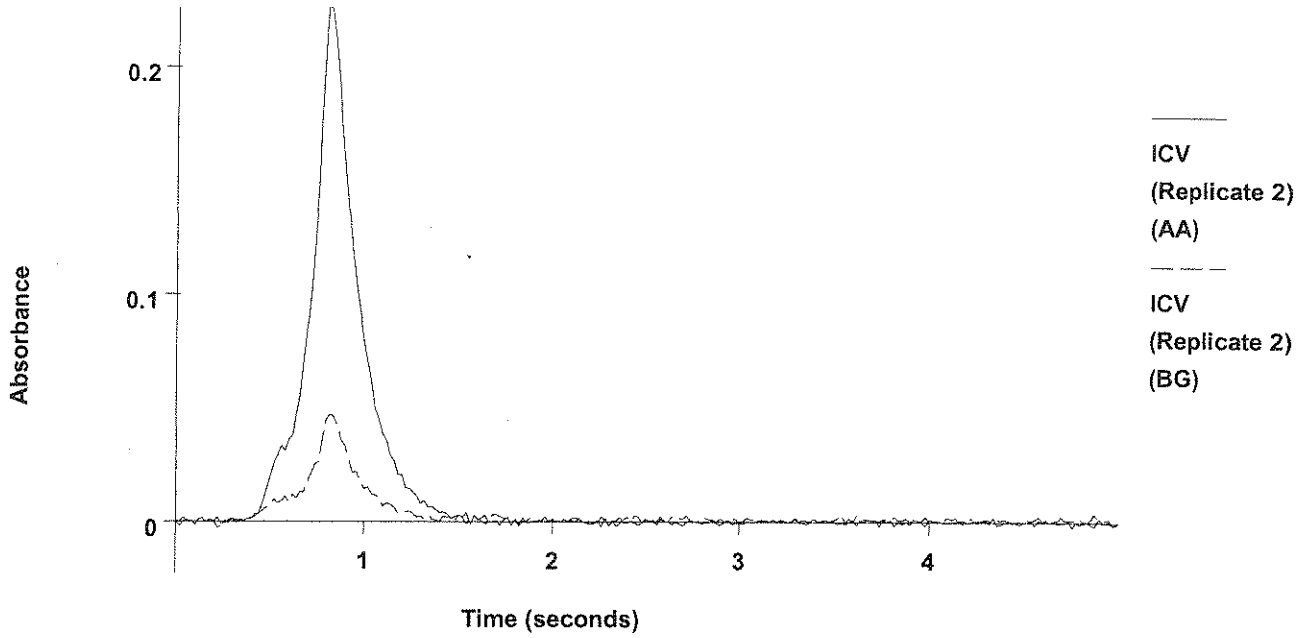
Mean: 25.9 25.9 0.0676  
 SD : 0.14 0.14 0.0004  
 %RSD: 0.54 0.54 0.55 ✓

QC value within specified limits.

=====  
 Element: Pb Seq. No.: 14 AS Loc.: 134 Date: 06/24/2006  
 Sample ID: ICV  
 µL dispensed: 10 from 141, 5 from 146, 15 from 134  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.6	23.6	0.0617	0.0647	0.2243	0.0170	0.0461	11:03:00	Yes
2	24.2	24.2	0.0633	0.0663	0.2259	0.0177	0.0472	11:05:51	Yes

Pb

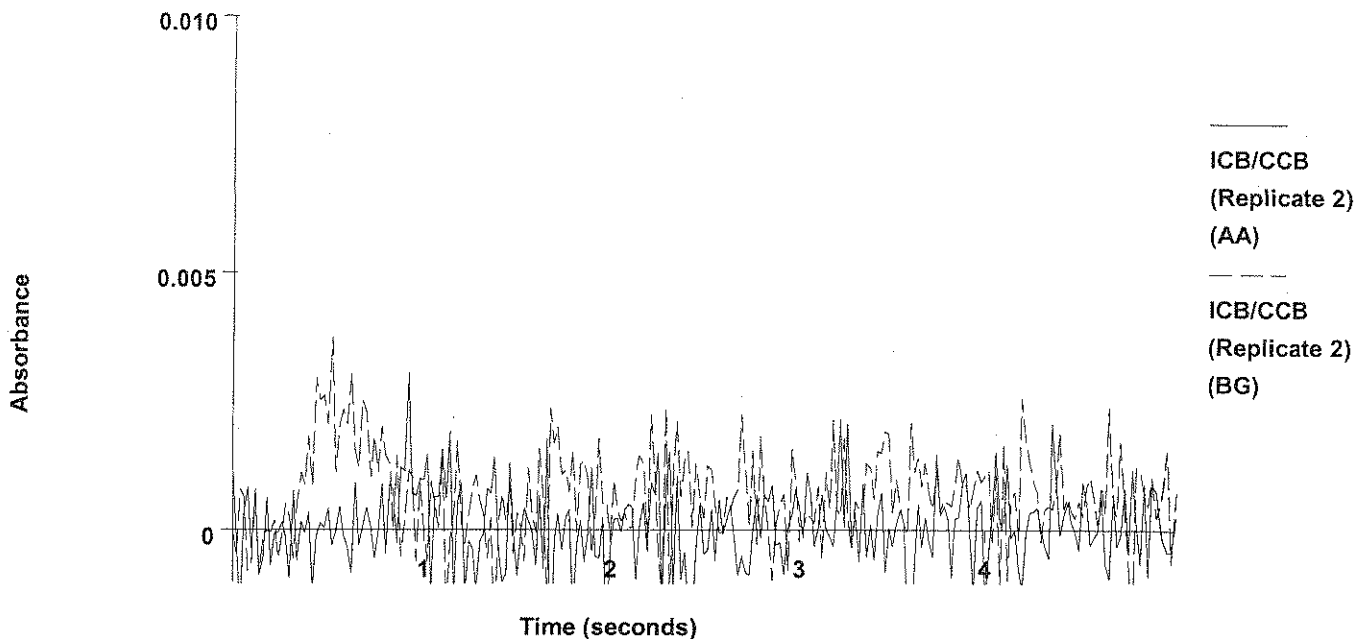


Mean: - 23.9 23.9 0.0625  
 SD : 0.41 0.41 0.0011  
 %RSD: 1.72 1.72 1.73  
 QC value within specified limits.

=====  
 Element: Pb Seq. No.: 15 AS Loc.: 141 Date: 06/24/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 141, 5 from 146, 15 from 141  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-1.2	-1.2	-0.0034	-0.0004	0.0018	0.0044	0.0053	11:08:44	Yes
2	-0.9	-0.9	-0.0027	0.0003	0.0031	0.0035	0.0037	11:11:36	Yes

Pb

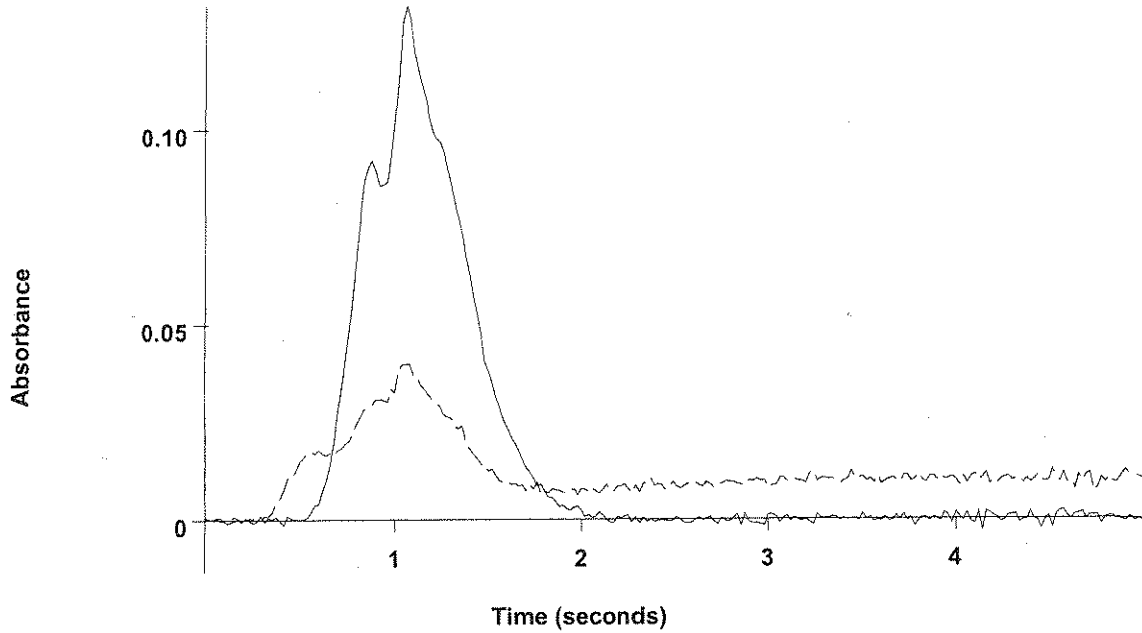


Mean:     -1.0       -1.0     -0.0030  
 SD :     0.19       0.19     0.0005  
 %RSD:    18.60      18.60    16.85  
 QC value within specified limits.

=====  
 Element: Pb     Seq. No.: 16       AS Loc.: 136     Date: 06/24/2006  
 Sample ID: CRA 2  
 µL dispensed:  10 from 141, 5 from 146, 15 from 136  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.5	1.5	0.0036	0.0066	0.0213	0.0040	0.0054	11:14:26	Yes
2	1.7	1.7	0.0042	0.0072	0.0188	0.0055	0.0046	11:17:17	Yes

Pb



0606292-01re  
(Replicate 2)  
(AA)

0606292-01re  
(Replicate 2)  
(BG)

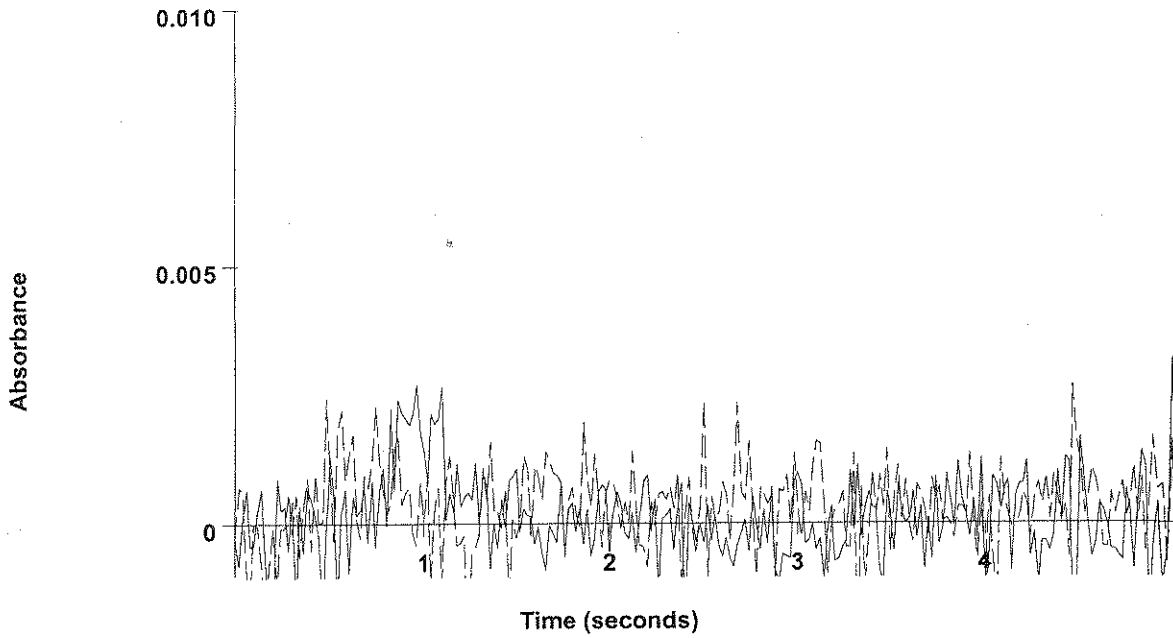
Mean: 28.0      28.0      0.0732  
SD : 0.41      0.41      0.0011  
%RSD: 1.47      1.47      1.48

=====  
Element: Pb    Seq. No.: 19      AS Loc.: 26    Date: 06/24/2006  
Sample ID: BF62207-blk1  
µL dispensed: 10 from 141, 5 from 146, 15 from 26  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.8	-0.8	-0.0025	0.0005	0.0035	0.0023	0.0032	11:31:30	Yes
2	-0.8	-0.8	-0.0023	0.0007	0.0032	0.0017	0.0027	11:34:21	Yes



Pb



BF62207-blk1  
(Replicate 2)  
(AA)

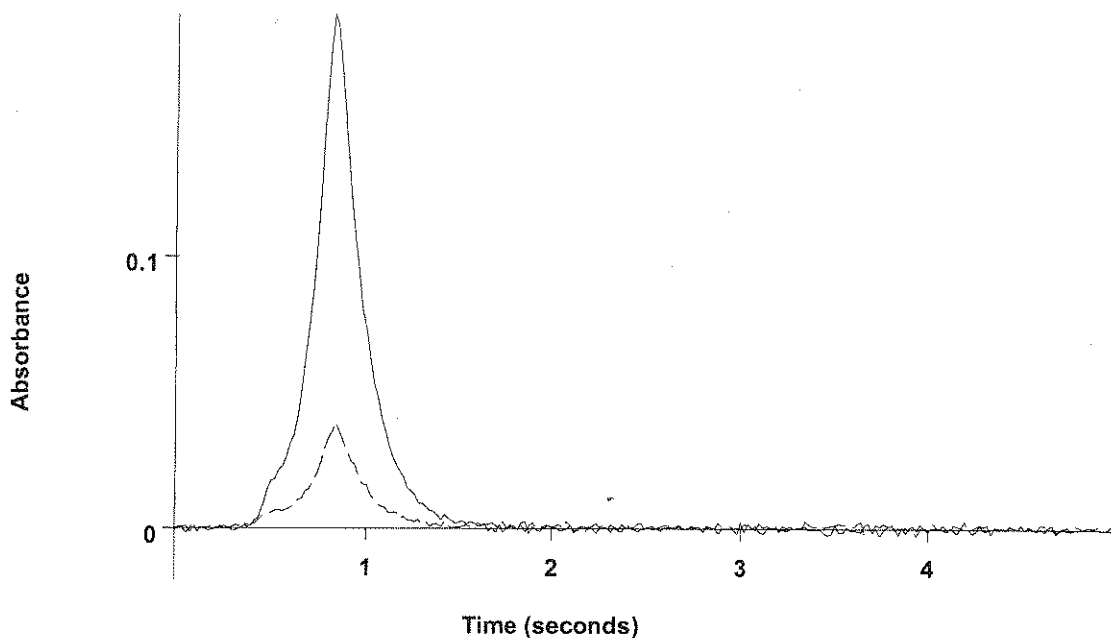
BF62207-blk1  
(Replicate 2)  
(BG)

Mean: -0.8      -0.8      -0.0024  
SD : 0.04      0.04      0.0001  
%RSD: 5.13      5.13      4.53

=====  
Element: Pb    Seq. No.: 20      AS Loc.: 26    Date: 06/24/2006  
Sample ID: BF62207-blk1  
µL dispensed: 4 from 141, 5 from 146, 6 from 131, 15 from 26  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	20.6	20.6	0.0537	0.0567	0.2071	0.0126	0.0407	11:37:20	Yes
2	20.9	20.9	0.0545	0.0575	0.1891	0.0144	0.0388	11:40:19	Yes

Pb



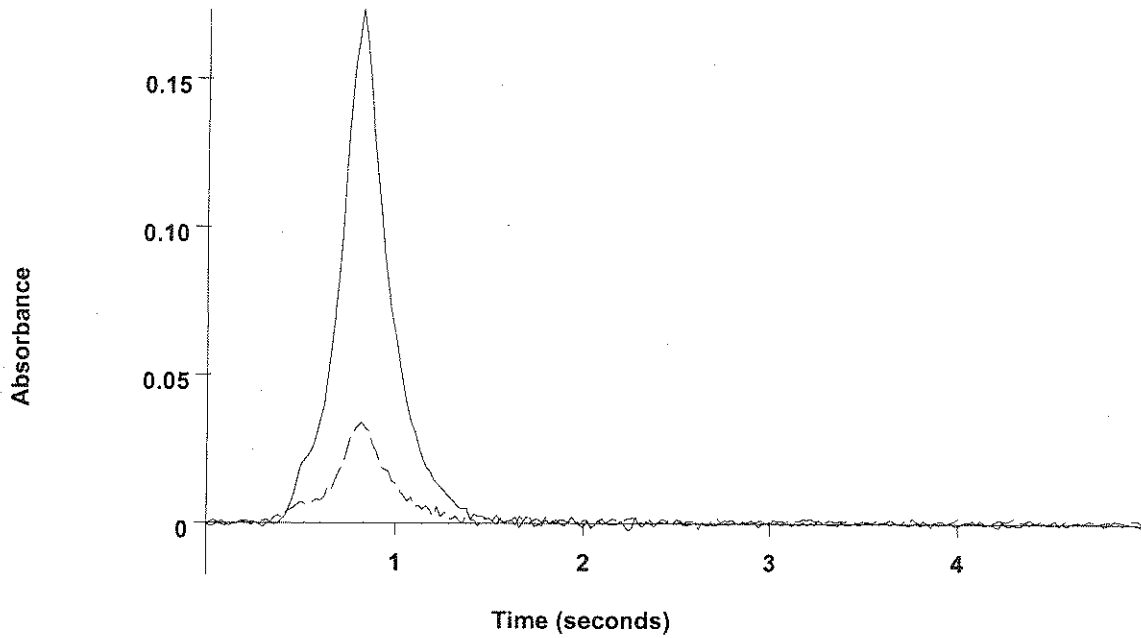
BF62207-blk1  
(Replicate 2)  
(AA)  
BF62207-blk1  
(Replicate 2)  
(BG)

Mean: 20.7 20.7 0.0541  
SD : 0.22 0.22 0.0006  
%RSD: 1.08 1.08 1.08  
Recovery for Pb = 103.7 % within 85 % to 115 %

=====  
Element: Pb Seq. No.: 21 AS Loc.: 27 Date: 06/24/2006  
Sample ID: BF62207-bs2  
µL dispensed: 10 from 141, 5 from 146, 15 from 27  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.1	20.1	0.0523	0.0554	0.1735	0.0138	0.0335	11:43:09	Yes
2	19.7	19.7	0.0514	0.0544	0.1735	0.0144	0.0339	11:45:59	Yes

Pb



BF62207-bs2  
(Replicate 2)  
(AA)  
BF62207-bs2  
(Replicate 2)  
(BG)

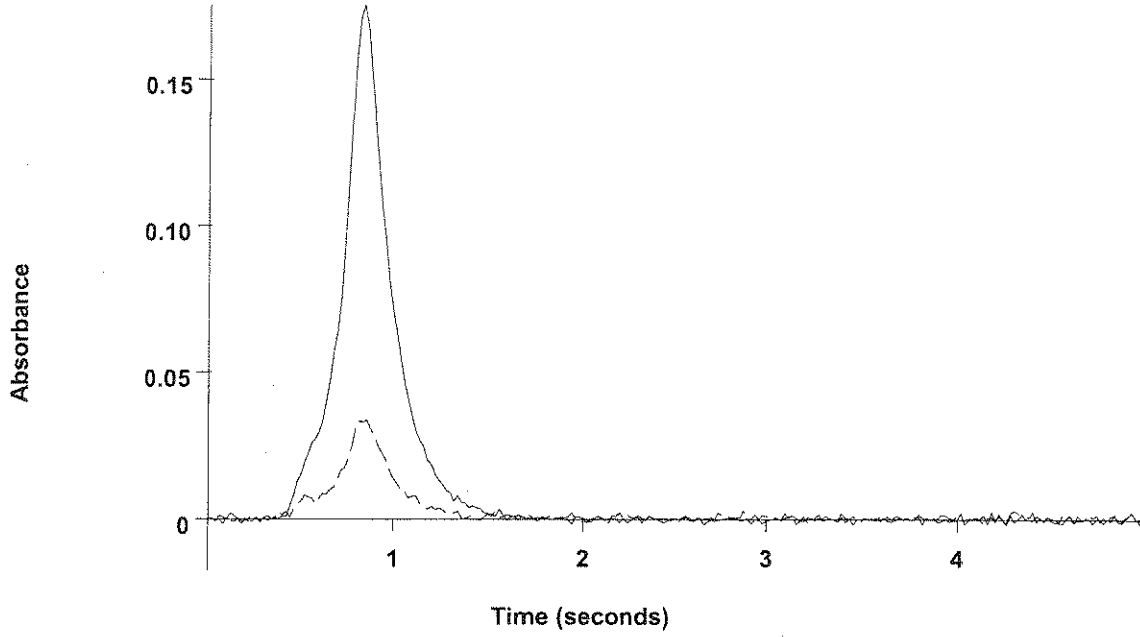
Mean: 19.9 19.9 0.0518  
SD : 0.27 0.27 0.0007  
%RSD: 1.35 1.35 1.36

*100%*

=====  
Element: Pb Seq. No.: 22 AS Loc.: 28 Date: 06/24/2006  
Sample ID: BF62207-bsd2  
µL dispensed: 10 from 141, 5 from 146, 15 from 28

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.5	20.5	0.0534	0.0564	0.1998	0.0153	0.0407	11:48:50	Yes
2	19.9	19.9	0.0520	0.0550	0.1753	0.0133	0.0337	11:51:41	Yes

Pb



BF62207-bsd2  
(Replicate 2)  
(AA)  
BF62207-bsd2  
(Replicate 2)  
(BG)

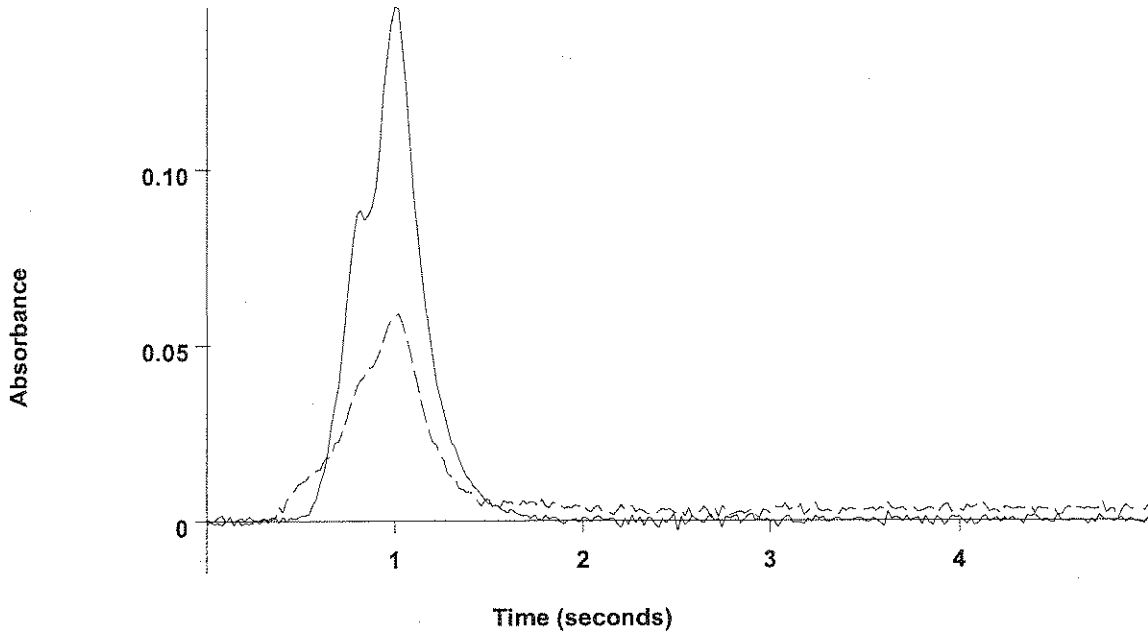
Mean: 20.2 20.2 0.0527  
SD : 0.38 0.38 0.0010  
%RSD: 1.90 1.90 1.91

1017

=====  
Element: Pb Seq. No.: 23 AS Loc.: 29 Date: 06/24/2006  
Sample ID: BF62107-blk1  
µL dispensed: 10 from 141, 5 from 146, 15 from 29  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	-0.0003	0.0027	0.0052	0.0072	0.0082	11:54:33	Yes
2	-0.4	-0.4	-0.0013	0.0017	0.0039	0.0049	0.0042	11:57:23	Yes

Pb



0606321-01dis  
(Replicate 2)  
(AA)

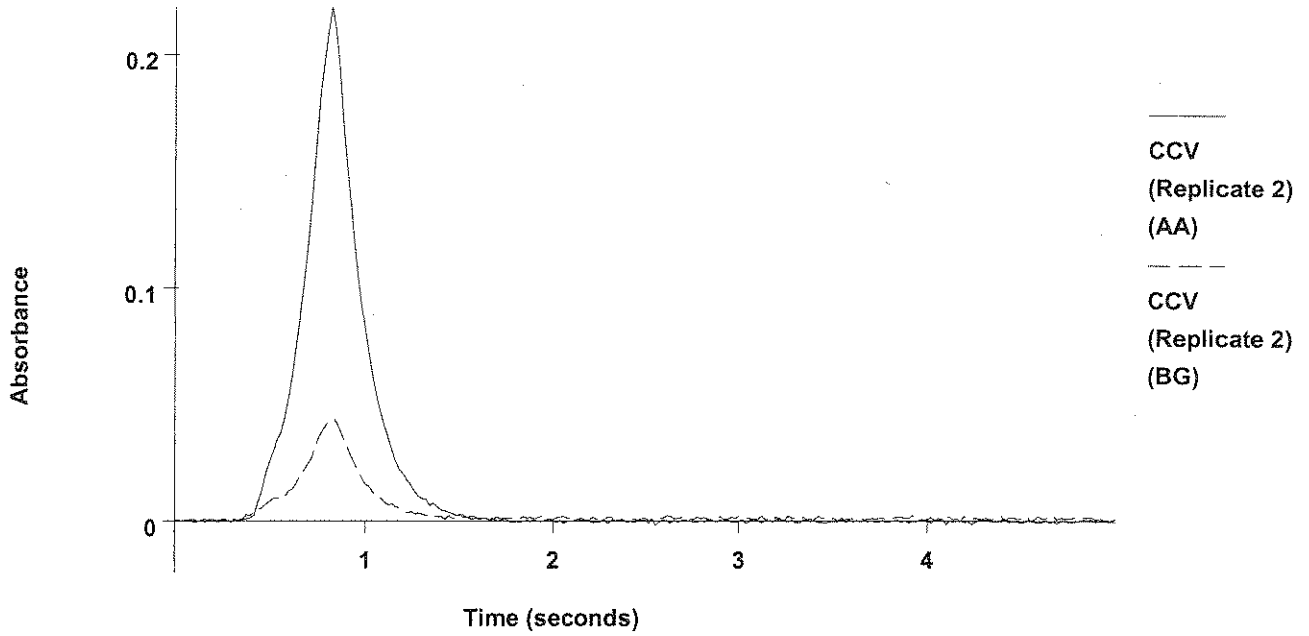
0606321-01dis  
(Replicate 2)  
(BG)

Mean: 21.4 21.4 0.0560  
 SD : 0.92 0.92 0.0024  
 %RSD: 4.28 4.28 4.30  
 Recovery for Pb = 107.2 % within 85 % to 115 %

=====  
 Element: Pb Seq. No.: 31 AS Loc.: 126 Date: 06/24/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 141, 5 from 146, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.9	25.9	0.0676	0.0706	0.2277	0.0162	0.0444	12:40:38	Yes
2	26.4	26.4	0.0690	0.0720	0.2204	0.0197	0.0436	12:43:31	Yes

Pb

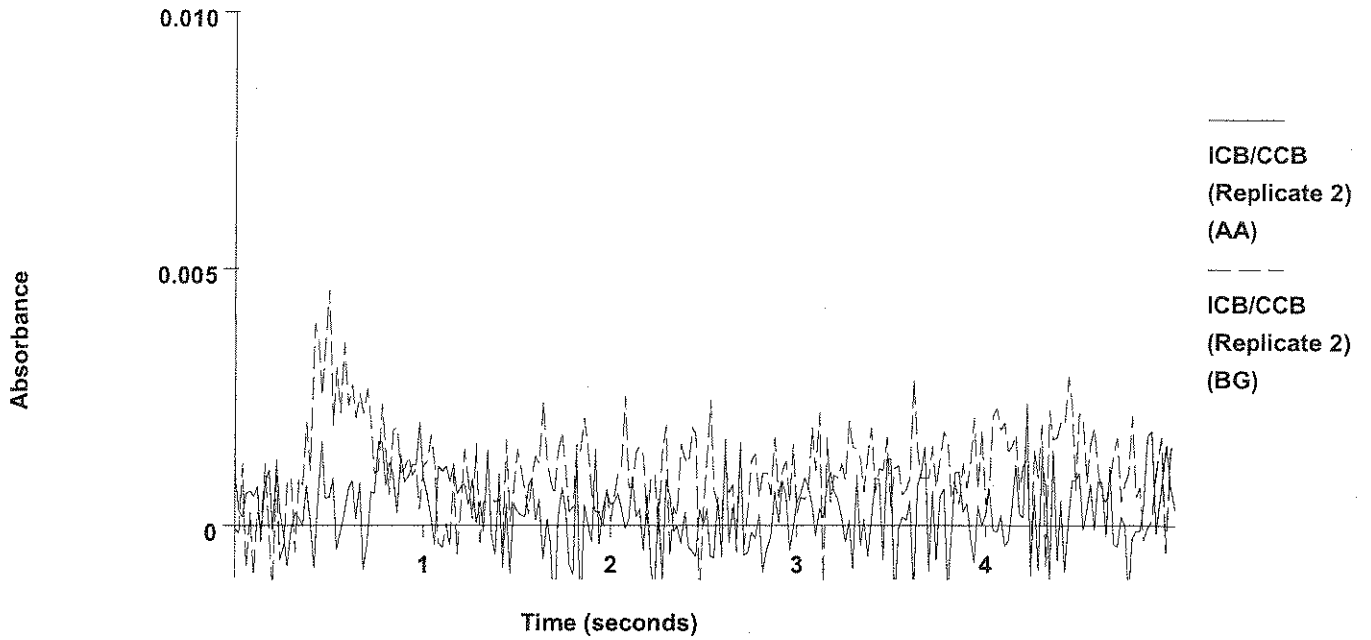


Mean: 26.2 26.2 -0.0683  
 SD : 0.38 0.38 0.0010  
 %RSD: 1.47 1.47 1.47  
 QC value within specified limits.

=====  
 Element: Pb Seq. No.: 32 AS Loc.: 141 Date: 06/24/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 141, 5 from 146, 15 from 141  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0023	0.0008	0.0019	0.0055	0.0046	12:46:26	Yes
2	-0.5	-0.5	-0.0016	0.0014	0.0024	0.0053	0.0046	12:49:19	Yes

Pb

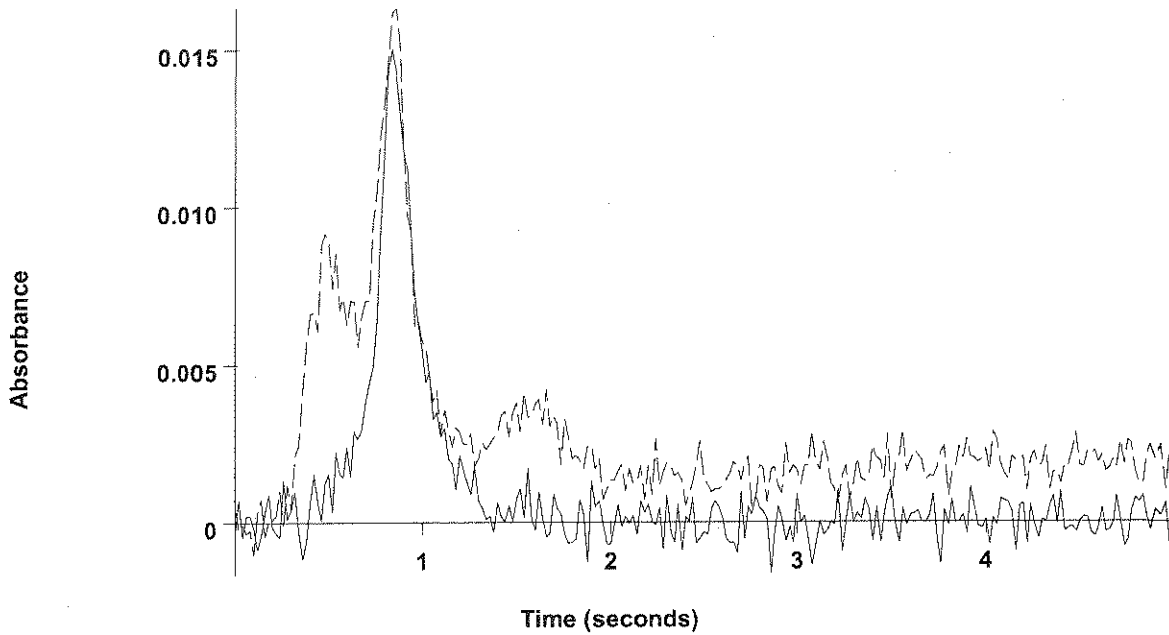


Mean:        -0.6        -0.6        -0.0019  
 SD :         0.17        0.17        0.0004  
 %RSD:       26.74        26.74       22.83  
 QC value within specified limits.

=====  
 Element: Pb    Seq. No.: 33        AS Loc.: 35    Date: 06/24/2006  
 Sample ID: BF62107-dup1  
 µL dispensed: 10 from 141, 5 from 146, 15 from 35  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0005	0.0025	0.0059	0.0310	0.0369	12:52:10	Yes
2	0.0	0.0	-0.0002	0.0028	0.0066	0.0336	0.0434	12:55:01	Yes

Pb



0606309-56  
(Replicate 2)  
(AA)  
-----  
0606309-56  
(Replicate 2)  
(BG)

Mean:           0.6           0.6           0.0013  
SD :            0.06          0.06          0.0002  
%RSD:          10.93         10.93         13.40

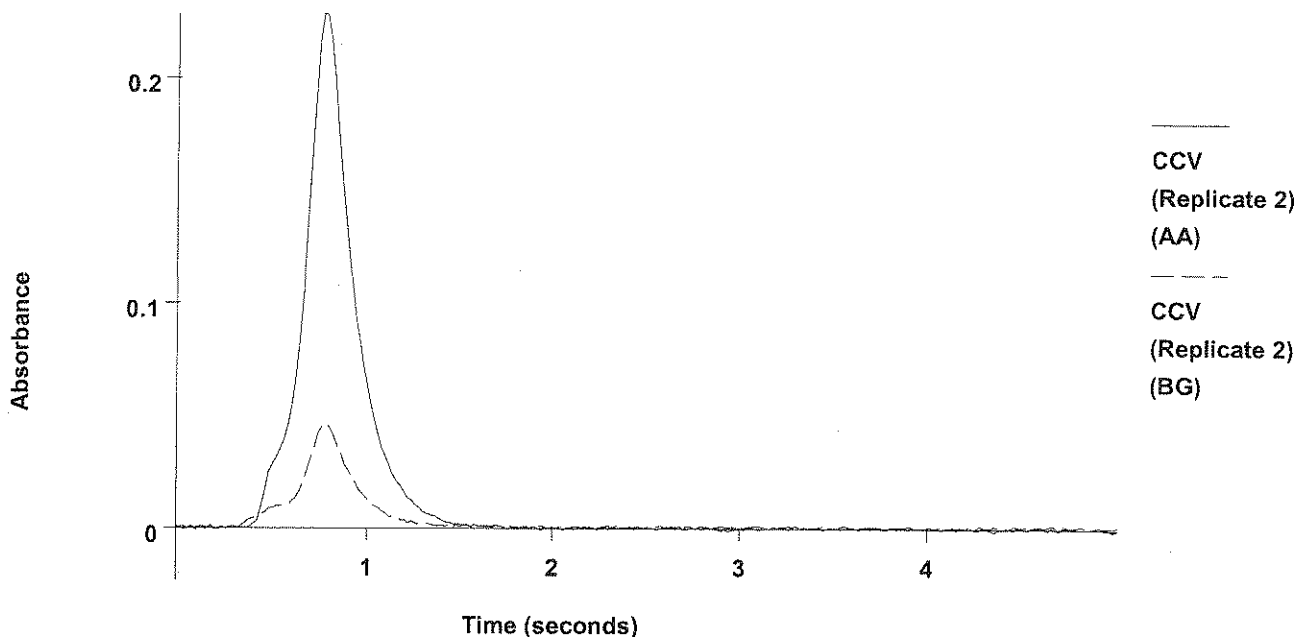
*Handwritten signature*

=====  
Element: Pb   Seq. No.: 137       AS Loc.: 126   Date: 06/24/2006  
Sample ID: CCV  
µL dispensed: 10 from 141, 5 from 146, 15 from 126  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.4	26.4	0.0688	0.0700	0.2271	0.0175	0.0458	10:49:48	Yes
2	27.2	27.2	0.0710	0.0722	0.2284	0.0177	0.0465	10:52:41	Yes



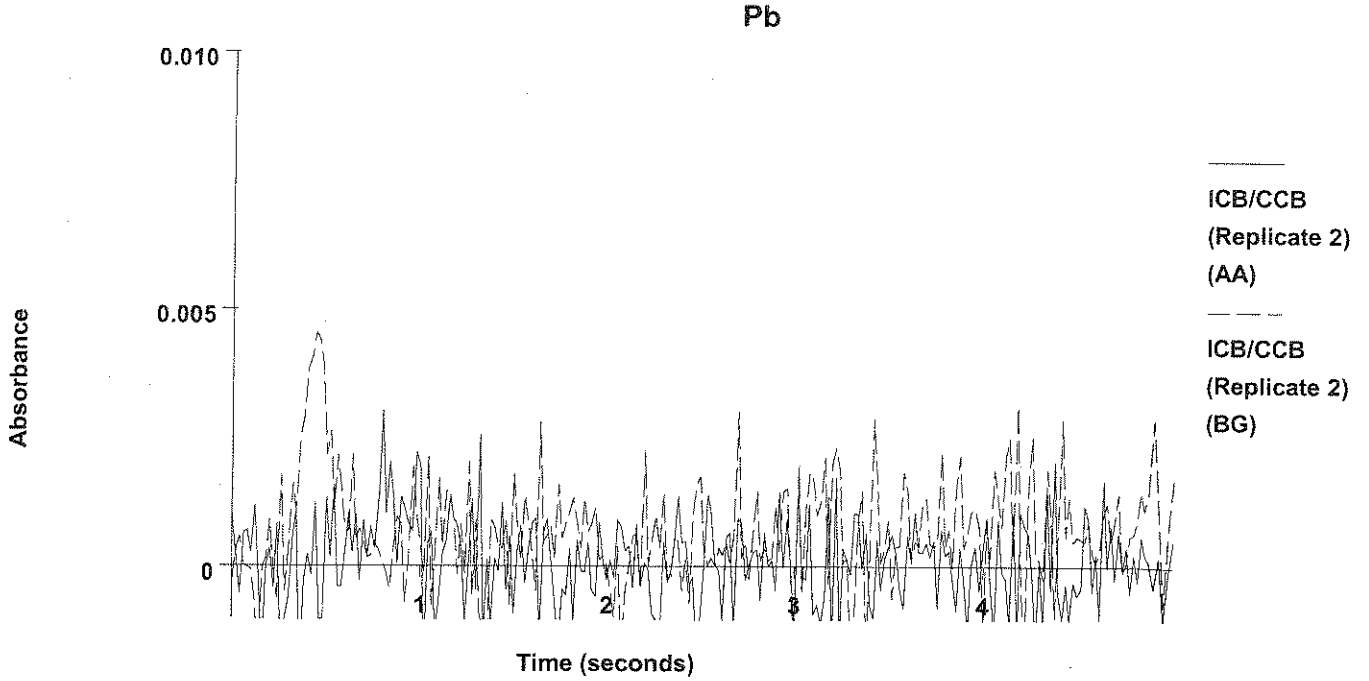
Pb



Mean: 26.8 26.8 0.0699  
 SD : 0.58 0.58 0.0015  
 %RSD: 2.18 2.18 2.19  
 QC value within specified limits.

=====  
 Element: Pb Seq. No.: 138 AS Loc.: 141 Date: 06/24/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 141, 5 from 146, 15 from 141

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0002	0.0013	0.0025	0.0030	0.0044	10:55:35	Yes
2	-0.1	-0.1	-0.0006	0.0006	0.0030	0.0036	0.0045	10:58:26	Yes

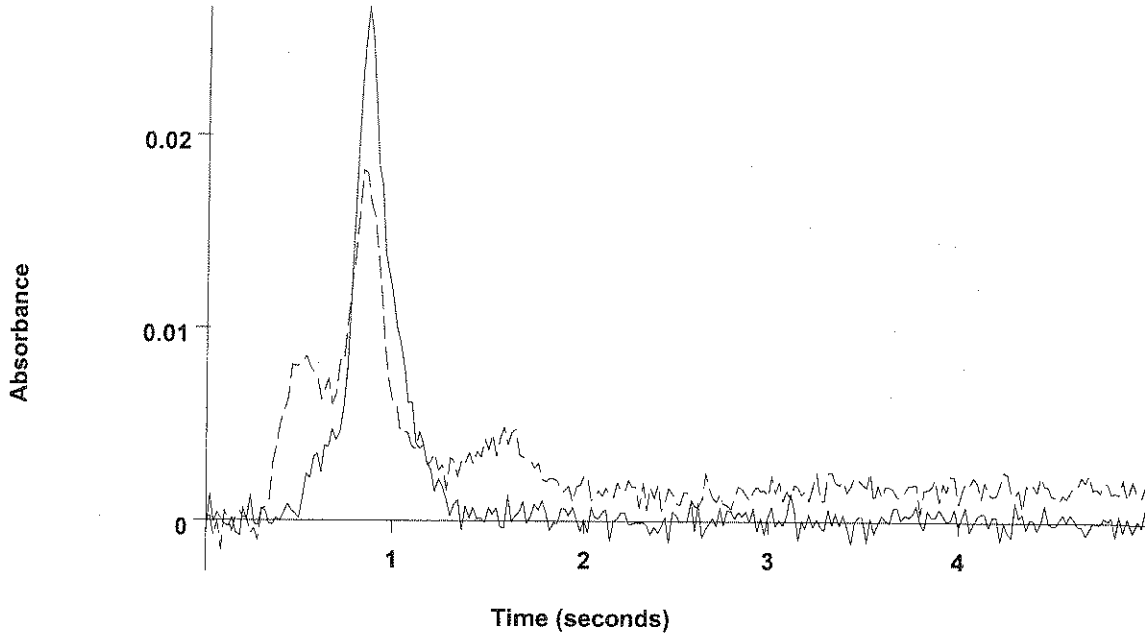


Mean:           0.0           0.0       -0.0002  
 SD :            0.20          0.20       0.0005  
 %RSD:         637.7         637.7      266.66 ✓  
 QC value within specified limits.

=====  
 Element: Pb   Seq. No.: 139       AS Loc.: 115   Date: 06/24/2006  
 Sample ID: 0606309-57  
 µL dispensed: 10 from 141, 5 from 146, 15 from 115  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.7	1.7	0.0042	0.0072	0.0186	0.0140	0.0139	11:01:17	Yes
2	1.7	1.7	0.0043	0.0073	0.0267	0.0142	0.0182	11:04:07	Yes

Pb



0606309-57  
(Replicate 2)  
(AA)

0606309-57  
(Replicate 2)  
(BG)

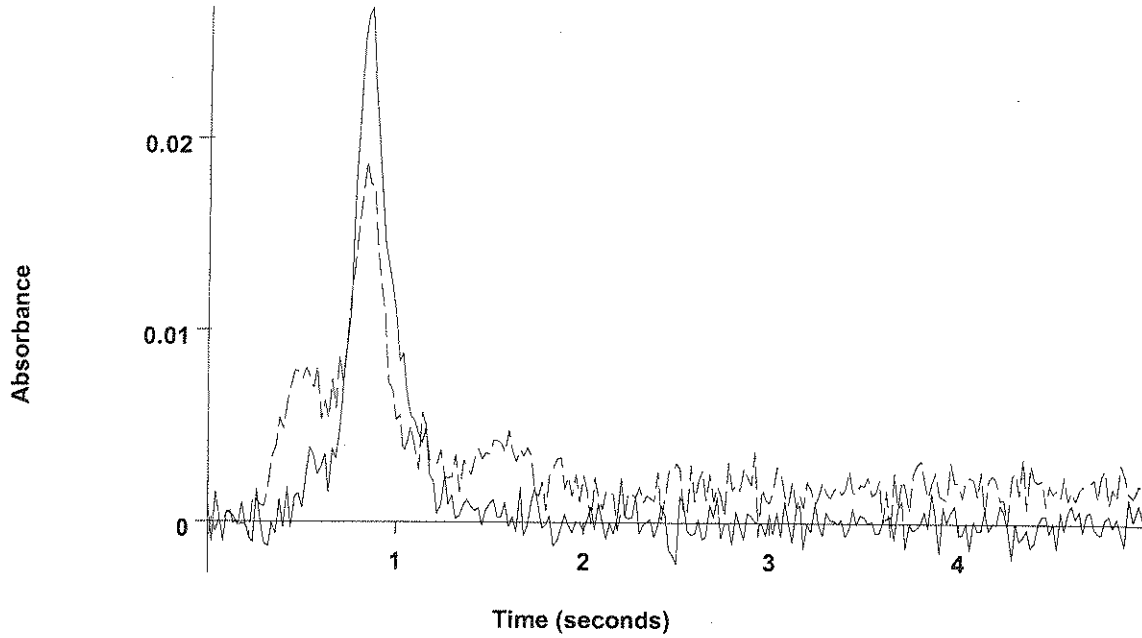
Mean:	1.7	1.7	0.0042
SD :	0.01	0.01	0.0000
%RSD:	0.36	0.36	0.38

*M*

=====  
 Element: Pb    Seq. No.: 140    AS Loc.: 116    Date: 06/24/2006  
 Sample ID: 0606309-58  
 µL dispensed: 10 from 141, 5 from 146, 15 from 116  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.6	1.6	0.0038	0.0068	0.0267	0.0145	0.0193	11:06:57	Yes
2	1.7	1.7	0.0043	0.0073	0.0268	0.0147	0.0188	11:09:47	Yes

Pb



0606309-58  
(Replicate 2)  
(AA)

0606309-58  
(Replicate 2)  
(BG)

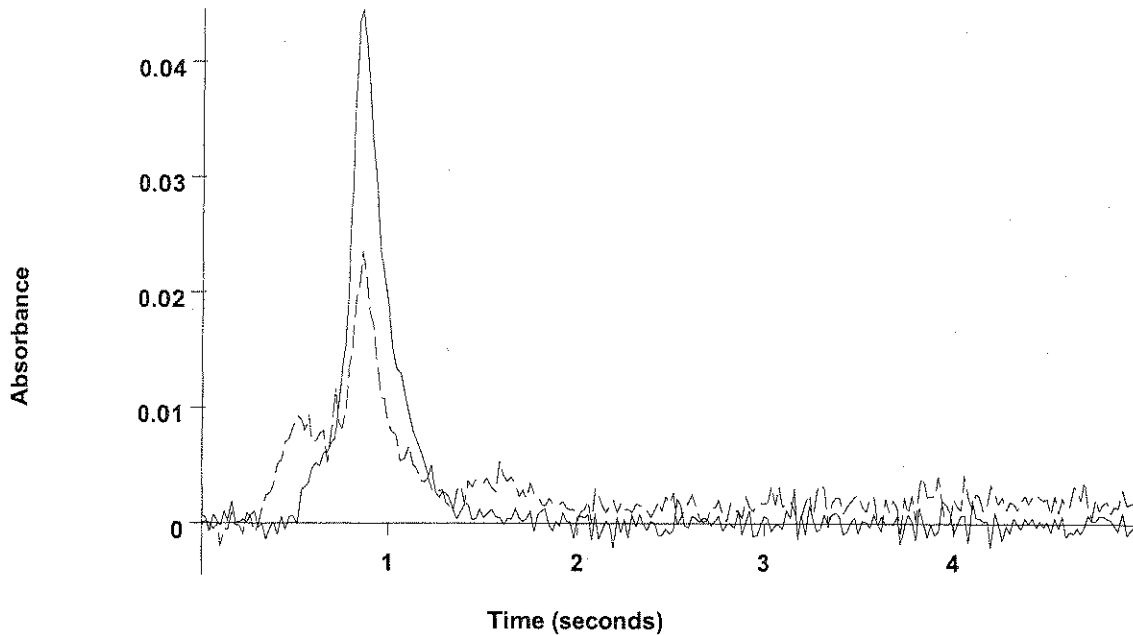
Mean: 1.6 1.6 0.0040  
SD : 0.12 0.12 0.0003  
%RSD: 7.24 7.24 7.74

*M*

=====  
Element: Pb Seq. No.: 141 AS Loc.: 117 Date: 06/24/2006  
Sample ID: 0606309-59  
μL dispensed: 10 from 141, 5 from 146, 15 from 117  
=====

Repl #	SampleConc μg/L	StndConc μg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.7	3.7	0.0094	0.0124	0.0268	0.0150	0.0164	11:12:39	Yes
2	3.6	3.6	0.0091	0.0121	0.0445	0.0151	0.0235	11:15:30	Yes

Pb



0606309-59  
(Replicate 2)  
(AA)

0606309-59  
(Replicate 2)  
(BG)

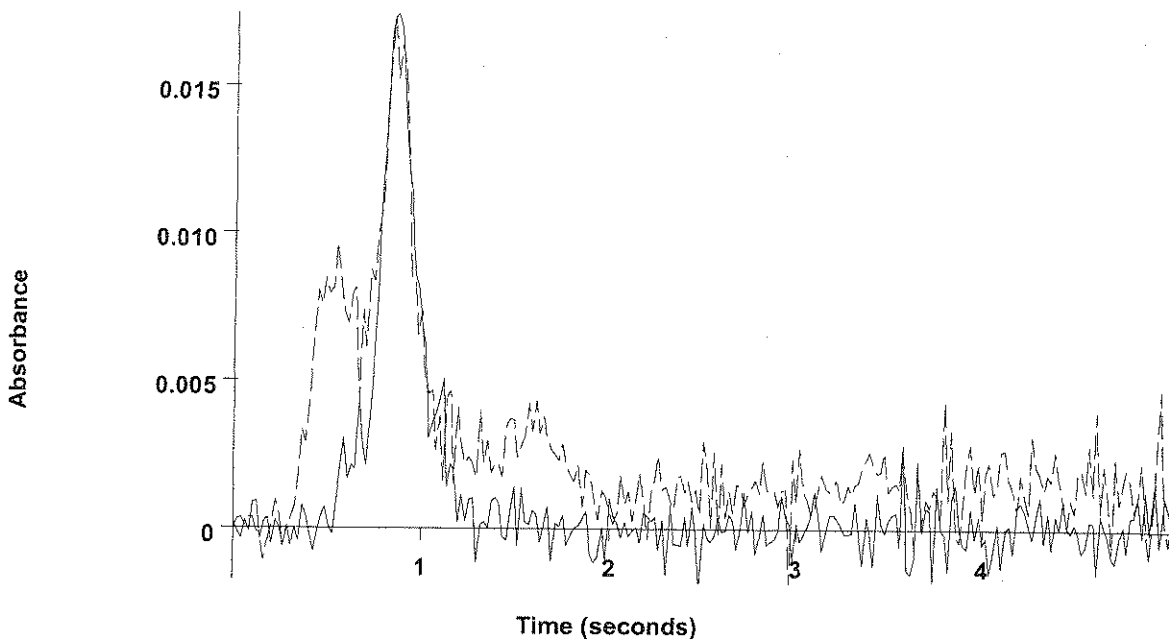
Mean: 3.6 3.6 0.0092  
SD : 0.07 0.07 0.0002  
%RSD: 1.92 1.92 1.98

*MD*

=====  
Element: Pb Seq. No.: 142 AS Loc.: 118 Date: 06/24/2006  
Sample ID: 0606309-60  
µL dispensed: 10 from 141, 5 from 146, 15 from 118  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	0.0012	0.0042	0.0125	0.0142	0.0122	11:18:21	Yes
2	0.8	0.8	0.0017	0.0047	0.0174	0.0129	0.0173	11:21:13	Yes

Pb



0606309-60  
(Replicate 2)  
(AA)

0606309-60  
(Replicate 2)  
(BG)

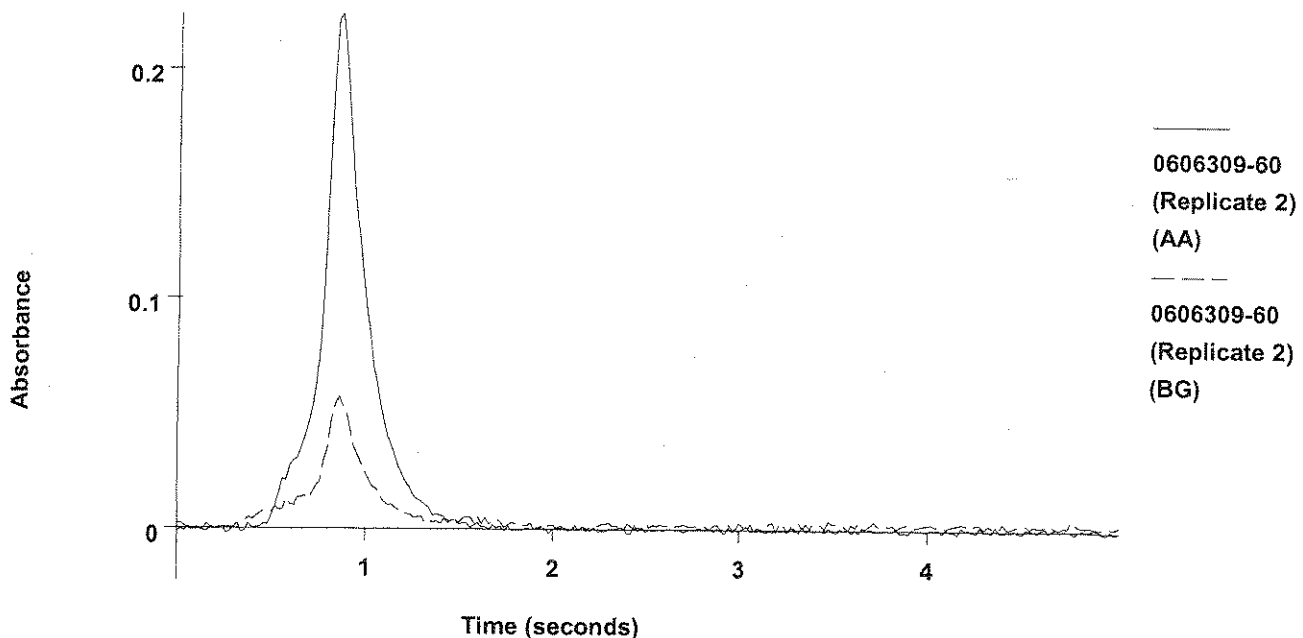
Mean:           0.7           0.7           0.0015  
SD :            0.14          0.14          0.0004  
%RSD:          20.25         20.25         24.12

*MD*

=====  
Element: Pb   Seq. No.: 143       AS Loc.: 118   Date: 06/24/2006  
Sample ID: 0606309-60  
µL dispensed: 4 from 141, 5 from 146, 6 from 131, 15 from 118  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	22.7	22.7	0.0593	0.0623	0.2263	0.0252	0.0583	11:24:13	Yes
2	22.3	22.3	0.0581	0.0611	0.2238	0.0242	0.0573	11:27:12	Yes

Pb



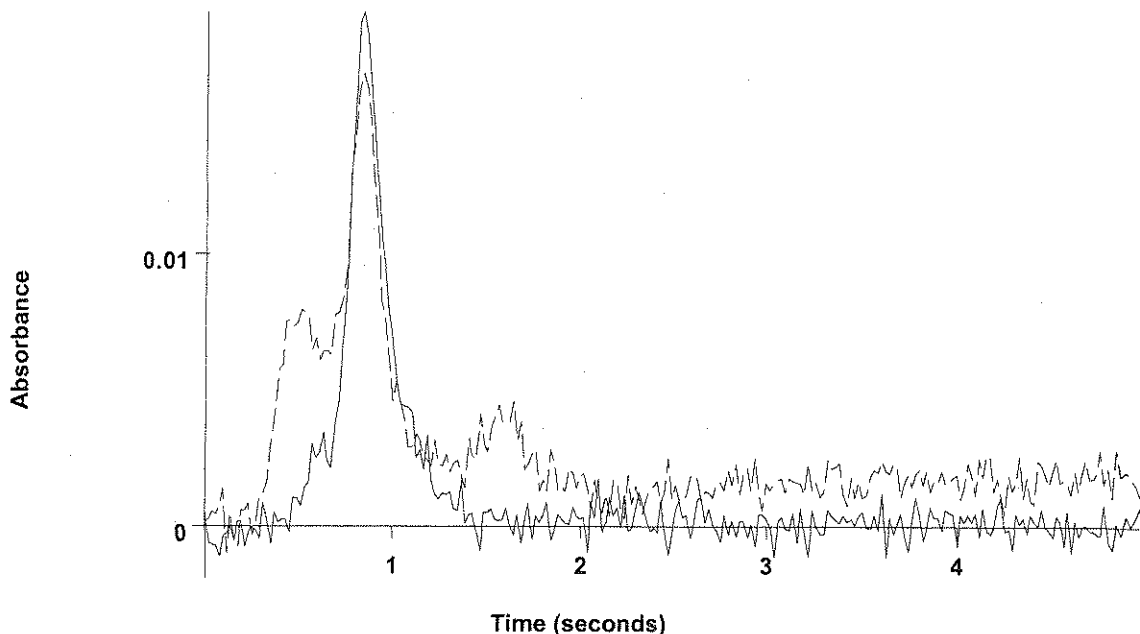
0606309-60  
(Replicate 2)  
(AA)  
-----  
0606309-60  
(Replicate 2)  
(BG)

Mean: 22.5 22.5 0.0587  
SD : 0.33 0.33 0.0009  
%RSD: 1.45 1.45 1.46  
Recovery for Pb = 112.5 % within 85 % to 115 %

=====  
Element: Pb Seq. No.: 144 AS Loc.: 119 Date: 06/24/2006  
Sample ID: BF62106-dup2  
µL dispensed: 10 from 141, 5 from 146, 15 from 119  
=====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.3	1.3	0.0032	0.0062	0.0132	0.0135	0.0120	11:30:03	Yes
2	1.1	1.1	0.0025	0.0055	0.0189	0.0134	0.0166	11:32:55	Yes

Pb



BF62106-dup2  
(Replicate 2)  
(AA)

BF62106-dup2  
(Replicate 2)  
(BG)

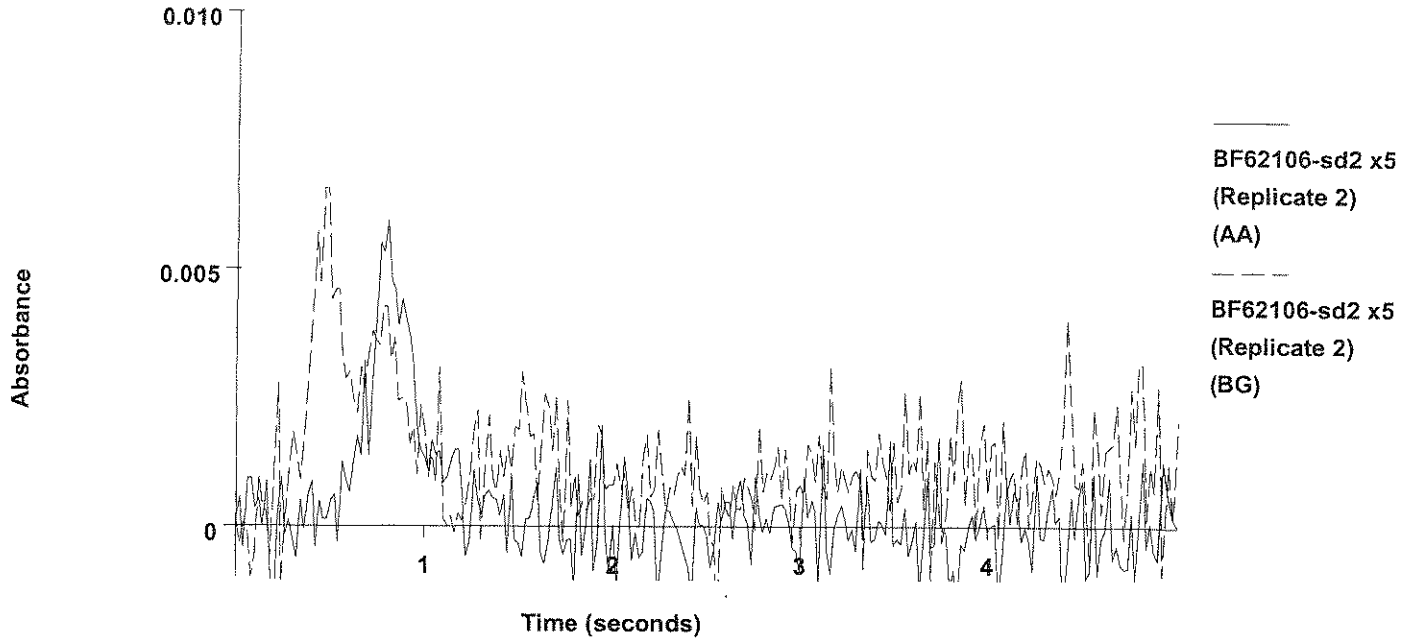
Mean: 1.2 1.2 0.0028  
SD : 0.19 0.19 0.0005  
%RSD: 16.35 16.35 17.98

=====  
Element: Pb Seq. No.: 145 AS Loc.: 120 Date: 06/24/2006  
Sample ID: BF62106-sd2 x5  
µL dispensed: 10 from 141, 5 from 146, 15 from 120  
=====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0010	0.0020	0.0051	0.0043	0.0091	11:35:48	Yes
2	-0.4	-0.4	-0.0013	0.0017	0.0059	0.0066	0.0066	11:38:41	Yes



Pb

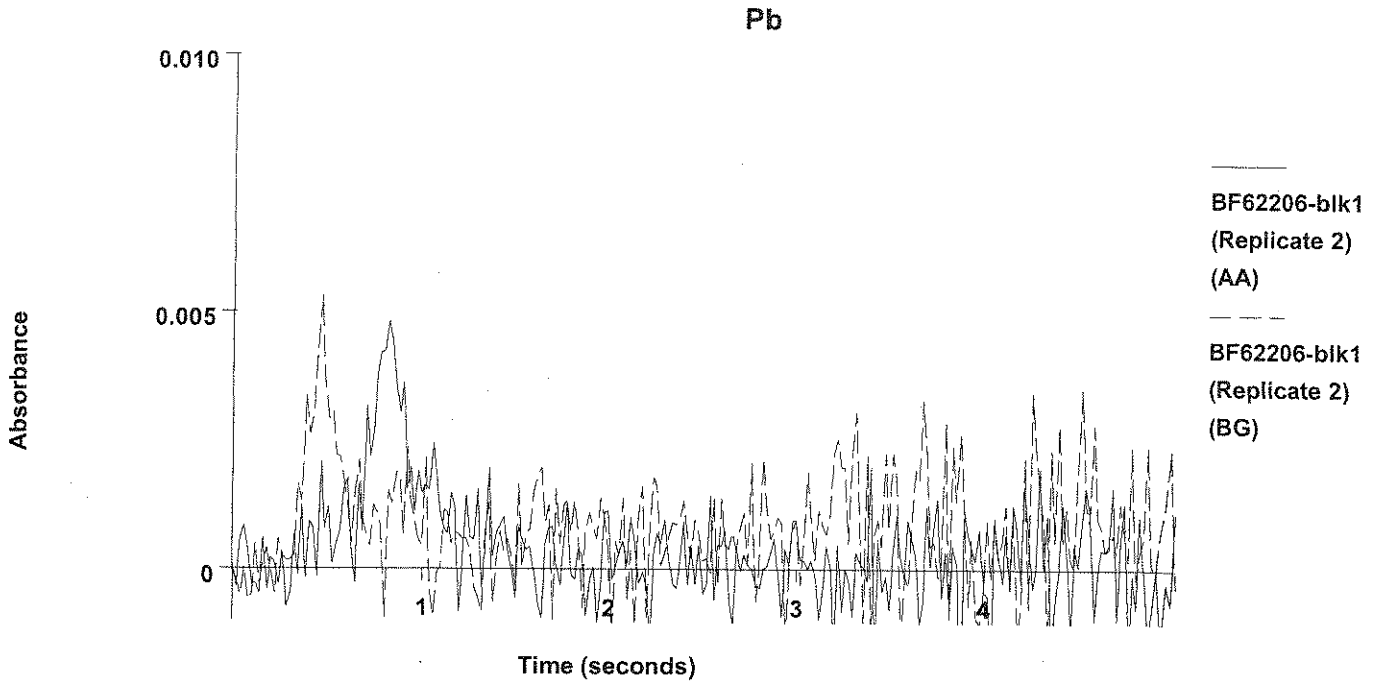


Mean:        -0.3        -0.3        -0.0011  
 SD :         0.09        0.09        0.0002  
 %RSD:       27.64       27.64       20.81

*u*

=====  
 Element: Pb    Seq. No.: 146    AS Loc.: 122    Date: 06/24/2006  
 Sample ID: BF62206-blk1  
 µL dispensed: 10 from 141, 5 from 146, 15 from 122  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	-0.0018	0.0012	0.0046	0.0064	0.0100	11:41:34	Yes
2	-0.3	-0.3	-0.0010	0.0020	0.0048	0.0042	0.0053	11:44:27	Yes



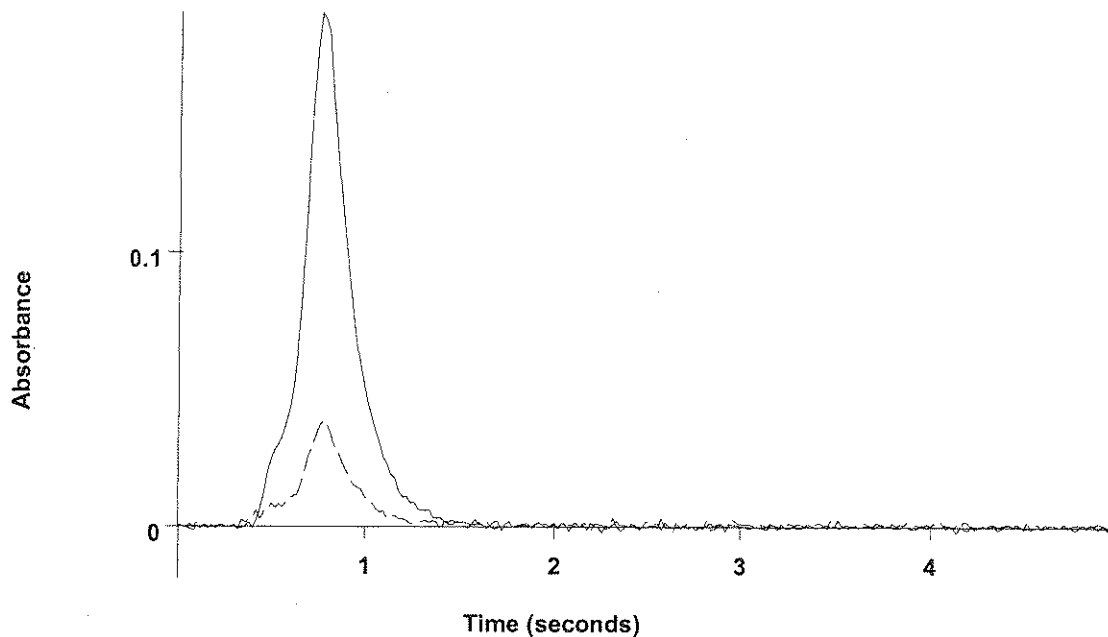
Mean:            -0.4            -0.4            -0.0014  
 SD :             0.22            0.22            0.0006  
 %RSD:           51.37           51.37           41.15

*ND*

=====  
 Element: Pb    Seq. No.: 147    AS Loc.: 122    Date: 06/24/2006  
 Sample ID: BF62206-blk1  
 µL dispensed: 4 from 141, 5 from 146, 6 from 131, 15 from 122  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.9	20.9	0.0544	0.0574	0.1887	0.0151	0.0386	11:47:30	Yes
2	21.2	21.2	0.0554	0.0584	0.1875	0.0144	0.0389	11:50:33	Yes

Pb

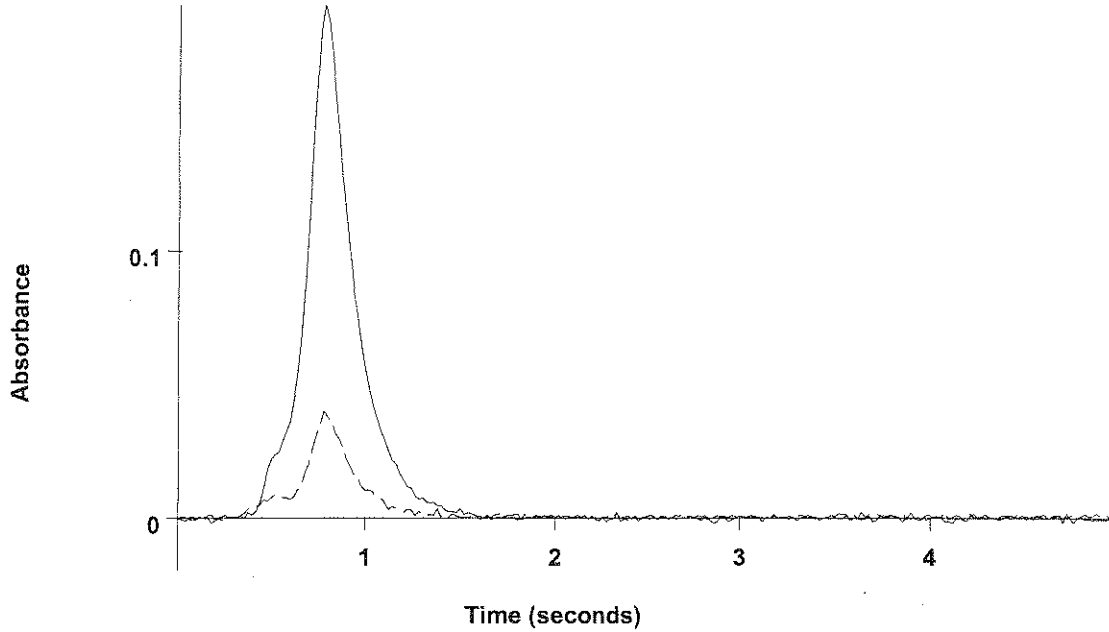


Mean: 21.1 21.1 0.0549  
 SD : 0.27 0.27 0.0007  
 %RSD: 1.28 1.28 1.29  
 Recovery for Pb = 105.3 % within 85 % to 115 %

=====  
 Element: Pb Seq. No.: 148 AS Loc.: 123 Date: 06/24/2006  
 Sample ID: BF62206-bs2  
 µL dispensed: 10 from 141, 5 from 146, 15 from 123

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	21.1	21.1	0.0551	0.0581	0.1465	0.0160	0.0305	11:53:26	Yes
2	21.3	21.3	0.0555	0.0585	0.1923	0.0138	0.0402	11:56:19	Yes

Pb



BF62206-bs2  
(Replicate 2)  
(AA)

BF62206-bs2  
(Replicate 2)  
(BG)

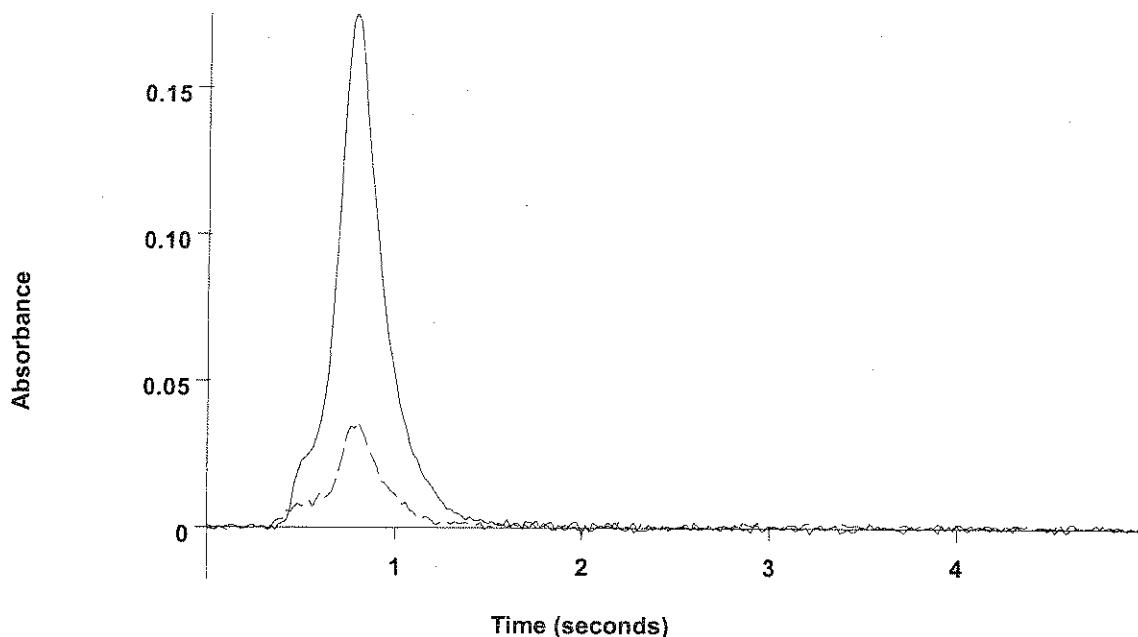
Mean: 21.2 21.2 0.0553  
SD : 0.10 0.10 0.0003  
%RSD: 0.48 0.48 0.48

*106%*

=====  
Element: Pb Seq. No.: 149 AS Loc.: 125 Date: 06/24/2006  
Sample ID: BF62206-bsd2  
µL dispensed: 10 from 141, 5 from 146, 15 from 125  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.3	20.3	0.0531	0.0561	0.1520	0.0170	0.0322	11:59:14	Yes
2	19.9	19.9	0.0519	0.0549	0.1751	0.0138	0.0360	12:02:09	Yes

Pb



BF62206-bsd2  
(Replicate 2)  
(AA)

BF62206-bsd2  
(Replicate 2)  
(BG)

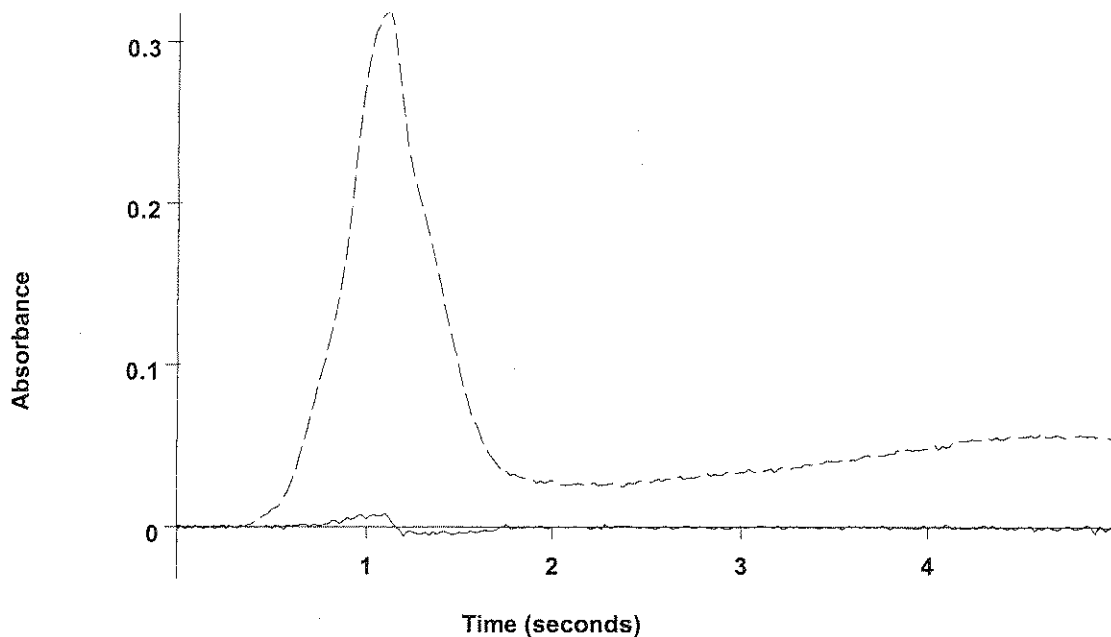
Mean: 20.1 20.1 0.0525  
SD : 0.31 0.31 0.0008  
%RSD: 1.55 1.55 1.56

*100%*

=====  
Element: Pb Seq. No.: 150 AS Loc.: 127 Date: 06/25/2006  
Sample ID: 0606341-01dis  
µL dispensed: 10 from 141, 5 from 146, 15 from 127  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-1.0	-1.0	-0.0030	0.0000	0.0081	0.2939	0.2953	12:05:02	Yes
2	-1.3	-1.3	-0.0038	-0.0008	0.0081	0.3100	0.3179	12:07:54	Yes

Pb



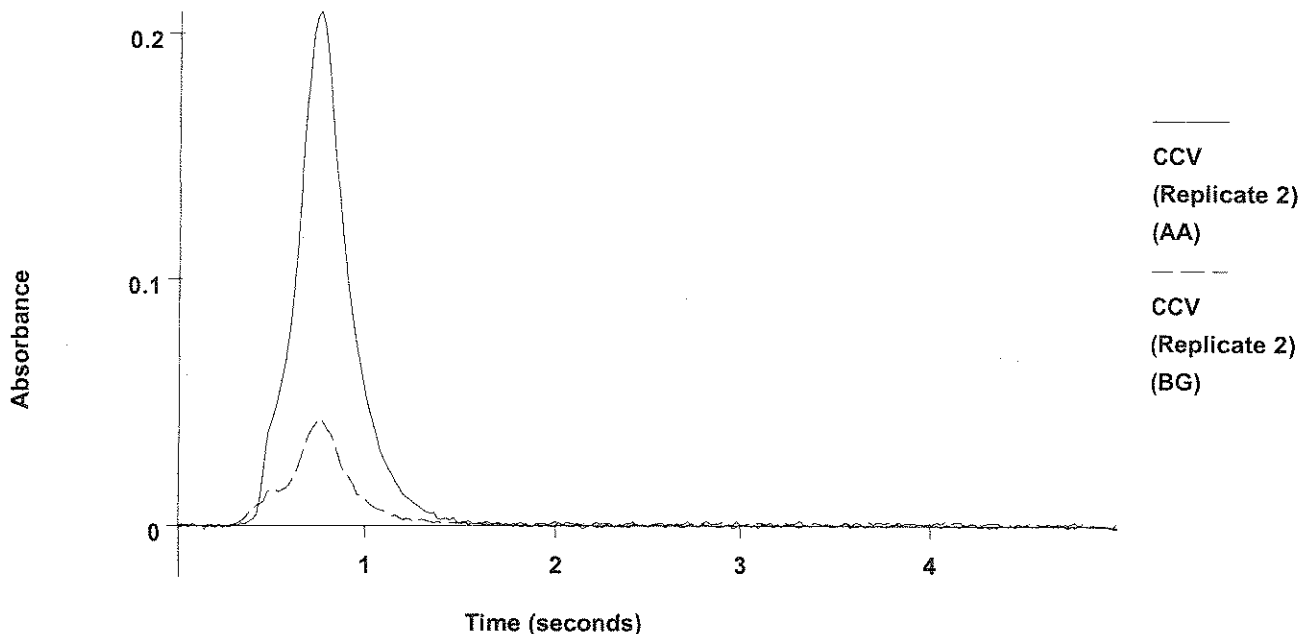
Mean:        -1.2        -1.2        -0.0034  
 SD :         0.21        0.21        0.0006  
 %RSD:       18.03       18.03       16.51

*nd*

=====  
 Element: Pb    Seq. No.: 151        AS Loc.: 126    Date: 06/25/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 141, 5 from 146, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.0	27.0	0.0706	0.0717	0.2266	0.0173	0.0454	12:10:47	Yes
2	26.8	26.8	0.0700	0.0711	0.2088	0.0184	0.0435	12:13:40	Yes

Pb

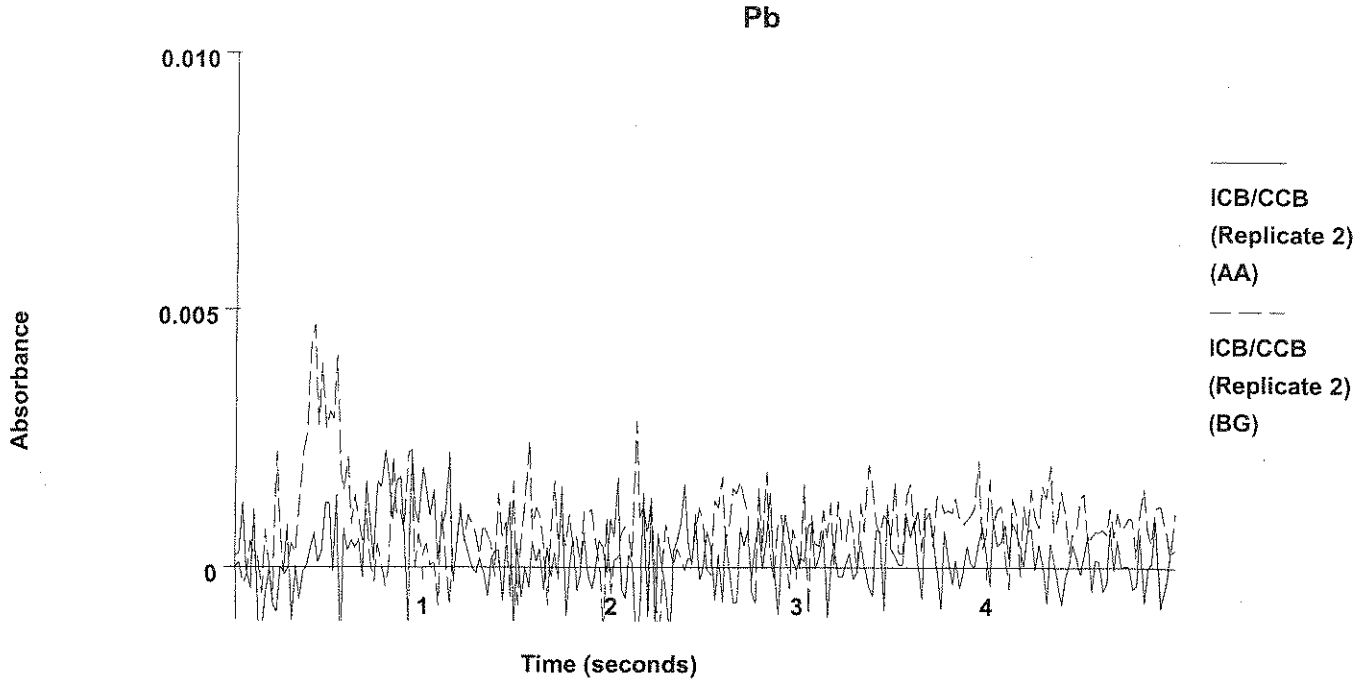


Mean: 26.9 26.9 0.0703  
 SD : 0.17 0.17 0.0004  
 %RSD: 0.62 0.62 0.62 ✓

QC value within specified limits.

=====  
 Element: Pb Seq. No.: 152 AS Loc.: 141 Date: 06/25/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 141, 5 from 146, 15 from 141  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0001	0.0012	0.0031	0.0039	0.0059	12:16:34	Yes
2	0.1	0.1	0.0001	0.0012	0.0023	0.0041	0.0047	12:19:26	Yes



Mean:           0.1           0.1           0.0001  
 SD :            0.00           0.00           0.0000  
 %RSD:          0.78           0.78           3.16  
 QC value within specified limits.

=====  
 Element: Pb   Seq. No.: 153   AS Loc.: 128   Date: 06/25/2006  
 Sample ID: 0606341-02dis  
 µL dispensed: 10 from 141, 5 from 146, 15 from 128  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0011	0.0019	0.0044	0.0203	0.0140	12:22:19	Yes
2	-0.5	-0.5	-0.0017	0.0013	0.0045	0.0196	0.0120	12:25:11	Yes



Method Name: As 5  
 Method Description: As  
 Element: As

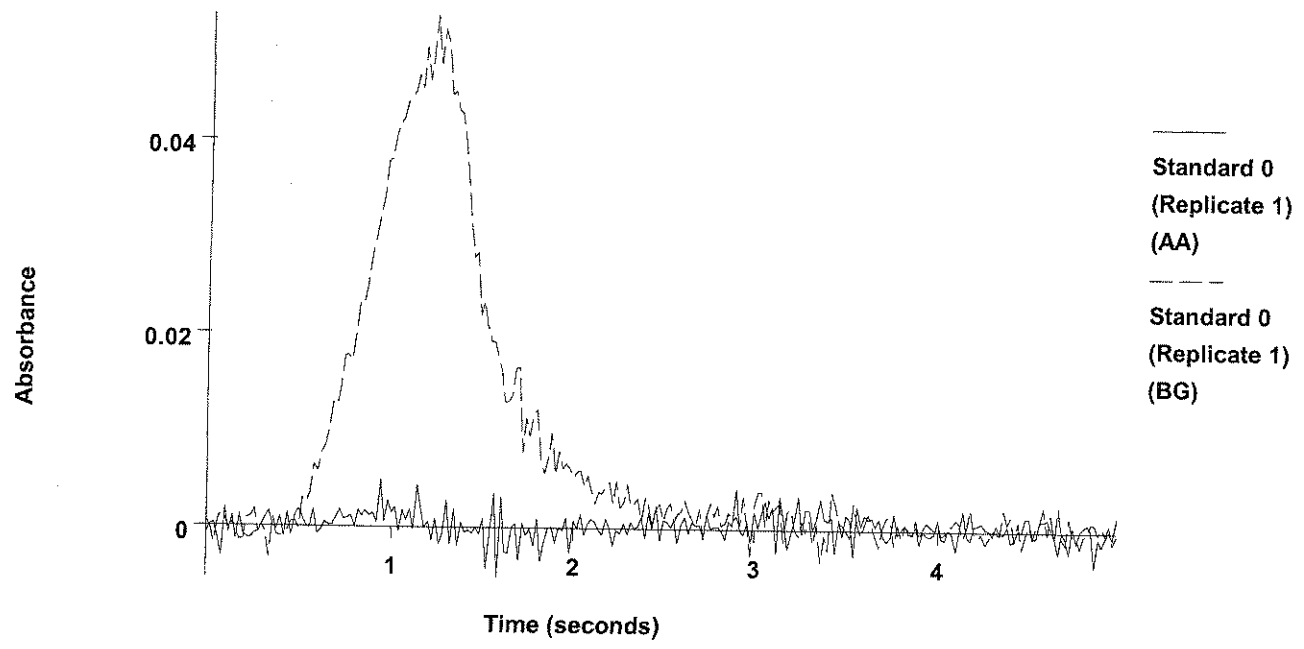
Date: 06/25/2006  
 Technique: Furnace  
 Calibration Type:  
 As, Calc. Intercept : Linear  
 Wavelength: 193.7 nm  
 Energy: 100  
 Slit Width: 0.7  
 Lamp Current: 350mA  
 Sample Info Name: 062306YA.SIF

Results Data Set Name: 062406yad

Element: As Seq. No.: 165 AS Loc.: 148 Date: 06/25/2006  
 Sample ID: Standard 0  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc	StndConc	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0011	0.0011	0.0048	0.0390	0.0529	01:33:26	Yes

As



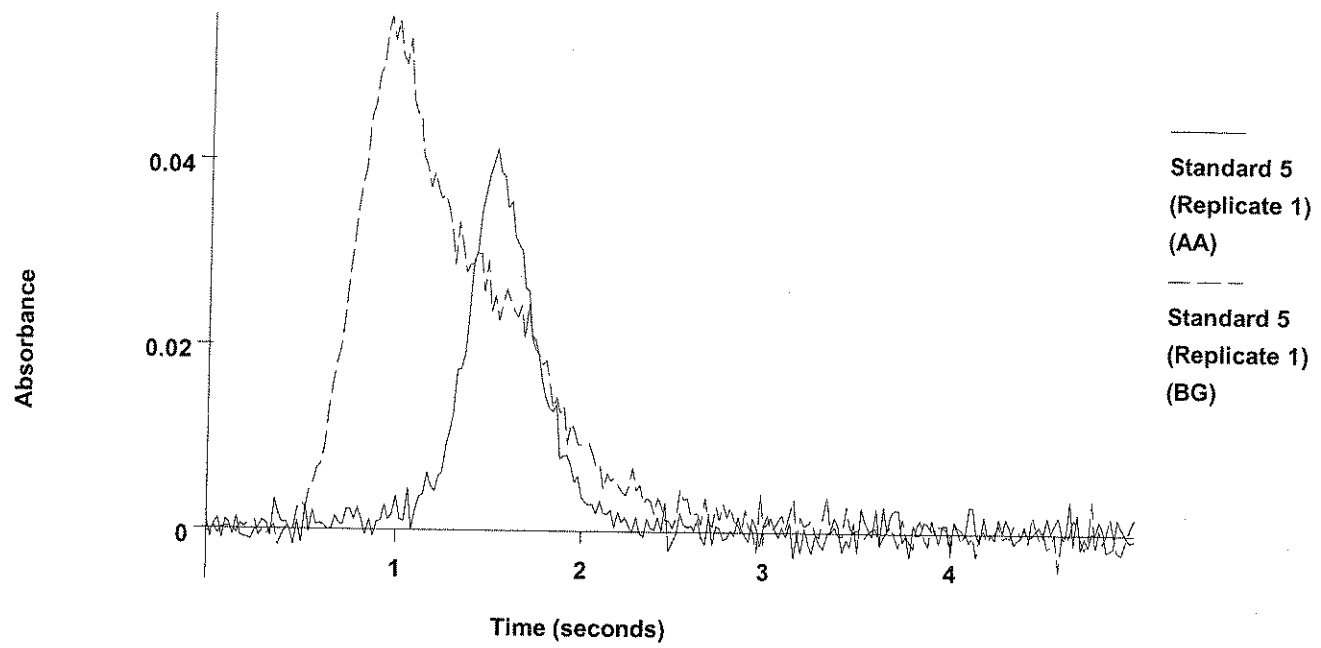
2			0.0009	0.0009	0.0040	0.0444	0.0618	01:36:15	Yes
Mean:			0.0010						
SD :			0.0001						
%RSD:			11.96						

Auto-zero performed.

Element: As Seq. No.: 166 AS Loc.: 121 Date: 06/25/2006  
 Sample ID: Standard 5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 121

Repl #	SampleConc	StndConc	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0183	0.0193	0.0413	0.0458	0.0556	01:39:31	Yes

As

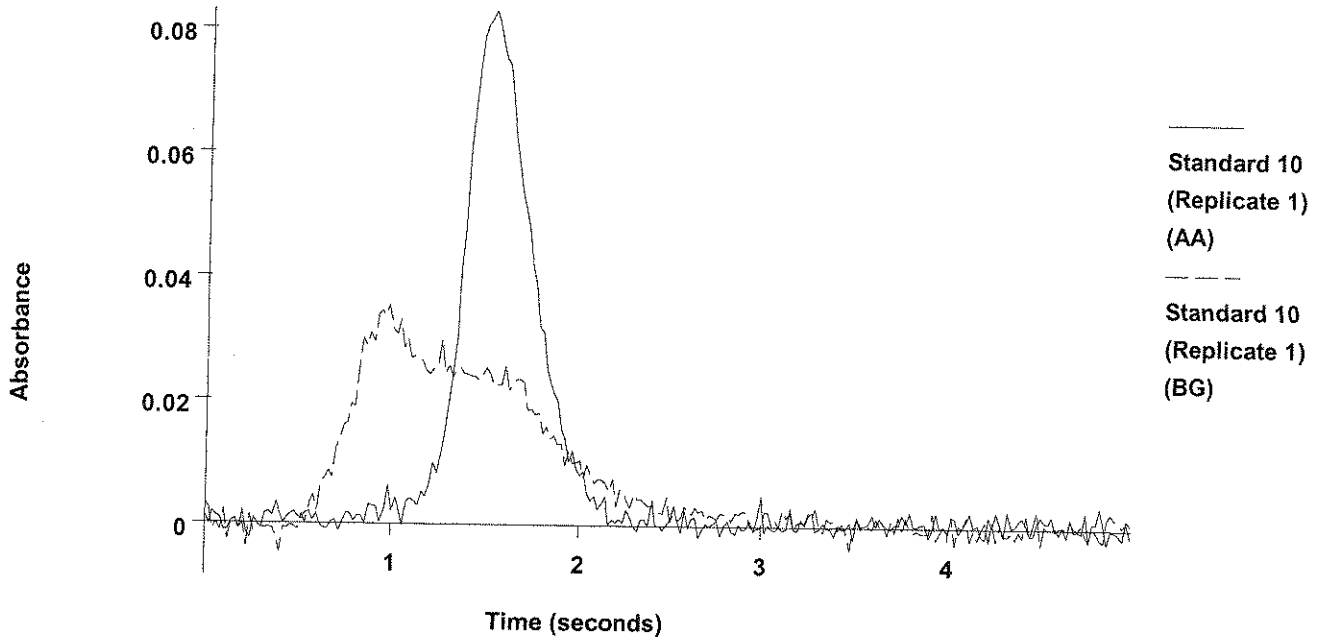


2  
 Mean: 0.0182 0.0192 0.0394 0.0457 0.0535 01:42:21 Yes  
 SD : 0.0182  
 %RSD: 0.0001  
 0.39  
 [As] Standard number 1 applied. [5.0]  
 Correlation Coefficient: 1.00000 Slope: 0.00364  
 Intercept : 0.00000

=====  
 Element: As Seq. No.: 167 AS Loc.: 124 Date: 06/25/2006  
 Sample ID: Standard 10  
 µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0364	0.0375	0.0830	0.0343	0.0354	01:45:39	Yes

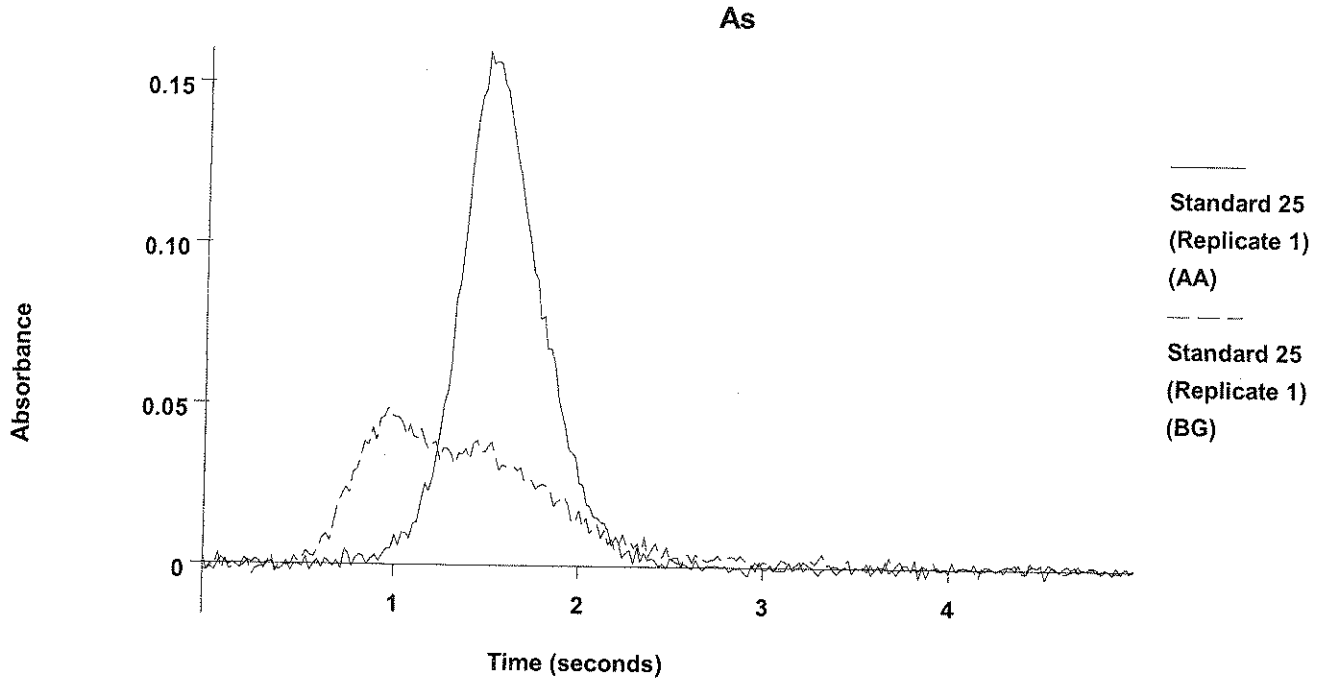
As



2  
 Mean: 0.0373 0.0383 0.0755 0.0508 0.0563 01:48:31 Yes  
 SD : 0.0006  
 %RSD: 1.65  
 [As] Standard number 2 applied. [10.0]  
 Correlation Coefficient: 0.99998 Slope: 0.00369  
 Intercept : -0.00007

=====  
 Element: As Seq. No.: 168 AS Loc.: 126 Date: 06/25/2006  
 Sample ID: Standard 25  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0822	0.0832	0.1600	0.0496	0.0488	01:51:49	Yes

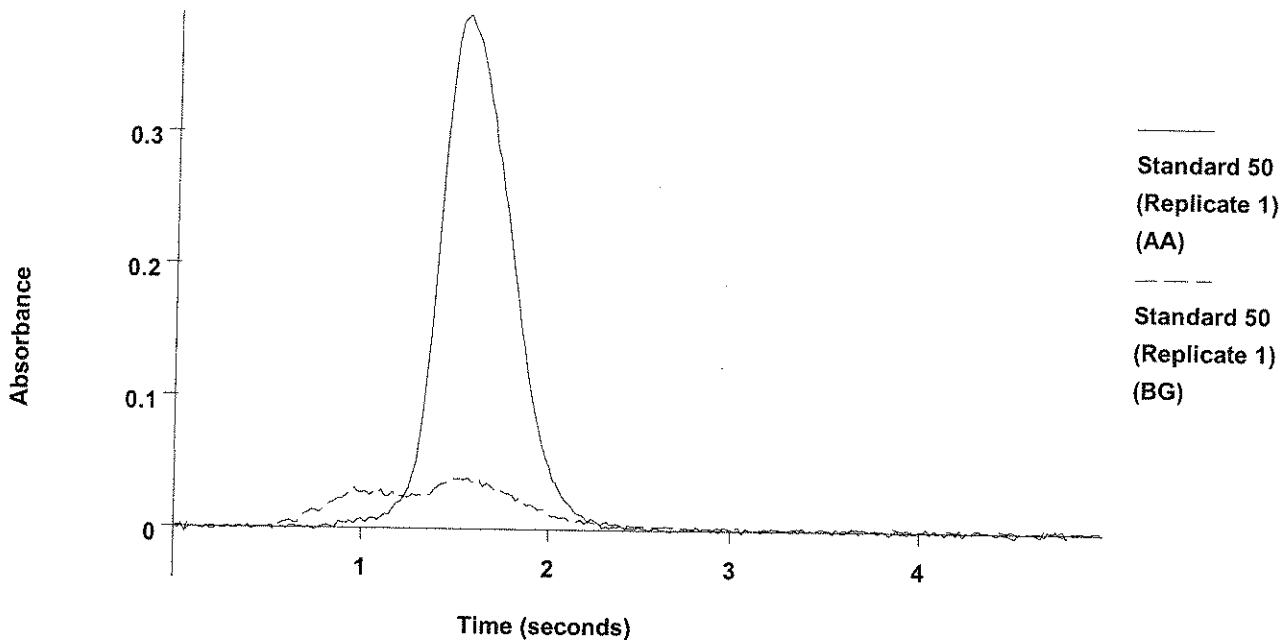


2  
 Mean: 0.0815 0.0825 0.1546 0.0527 0.0502 01:54:42 Yes  
 SD : 0.0818  
 %RSD: 0.0005  
 0.56  
 [As] Standard number 3 applied. [25.0]  
 Correlation Coefficient: 0.99847 Slope: 0.00325  
 Intercept : 0.00176

=====  
 Element: As Seq. No.: 169 AS Loc.: 129 Date: 06/25/2006  
 Sample ID: Standard 50  
 µL dispensed: 10 from 148, 5 from 147, 15 from 129

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.1774	0.1784	0.3898	0.0399	0.0390	01:57:59	Yes

As

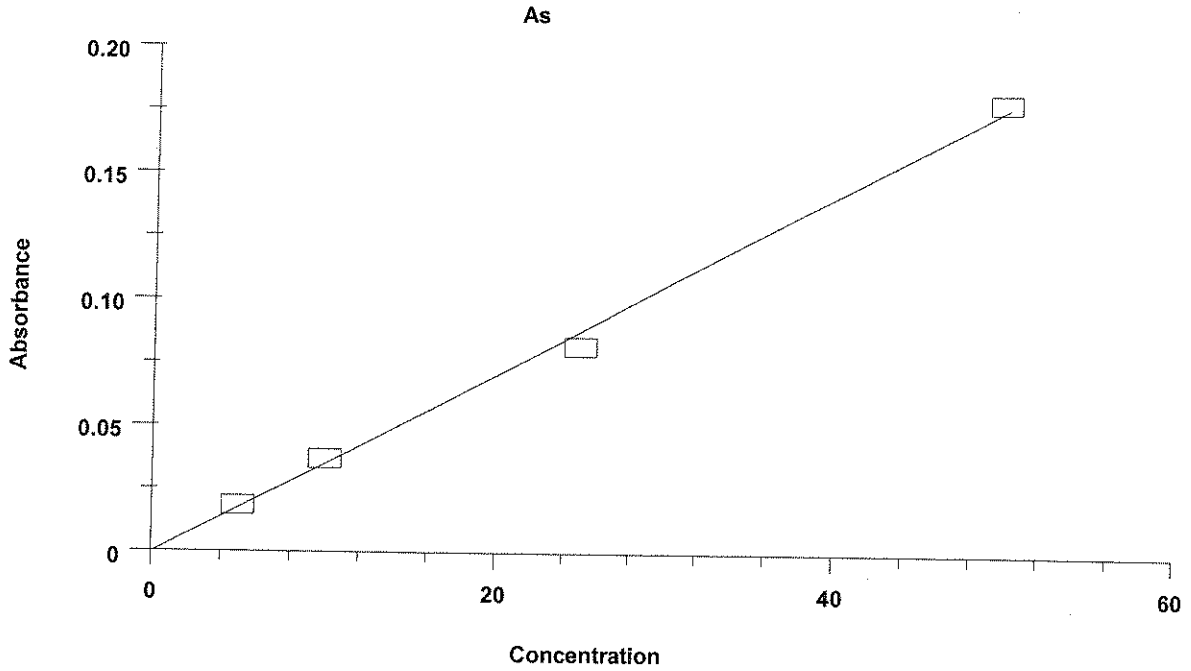


2  
 Mean: 0.1805 0.1815 0.4093 0.0417 0.0410 02:00:50 Yes  
 SD : 0.1789  
 %RSD: 0.0022  
 1.22  
 [As] Standard number 4 applied. [50.0]  
 Correlation Coefficient: 0.99880 Slope: 0.00354  
 Intercept : -0.00051

-----  
 Calibration data for As

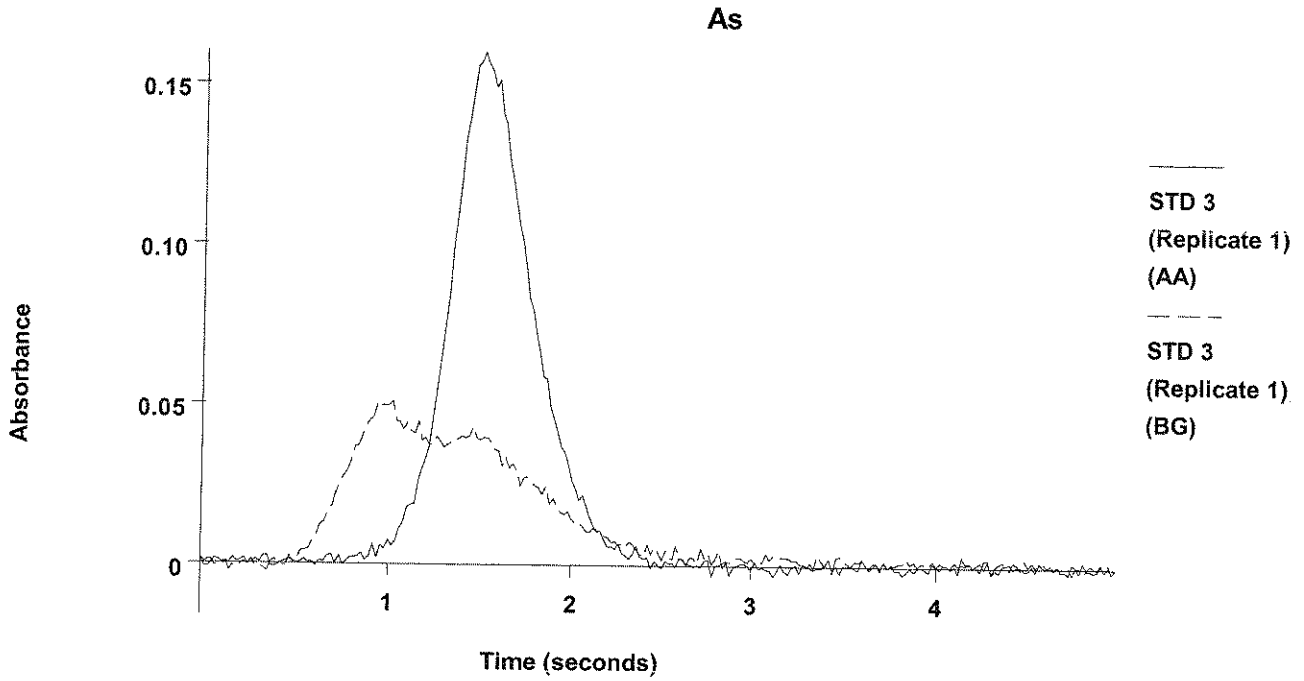
Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	0.0010	-	-	-	-
Standard 5	0.0182	5.0	5.3	0.00	0.39
Standard 10	0.0369	10.0	10.6	0.00	1.65
Standard 25	0.0818	25.0	23.3	0.00	0.56
Standard 50	0.1789	50.0	50.7	0.00	1.22
Correlation Coefficient: 0.99880		Slope:	0.00354	Intercept:	-0.0005

-----



=====  
 Element: As    Seq. No.: 170    AS Loc.: 126    Date: 06/25/2006  
 Sample ID: STD 3  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.0	24.0	0.0844	0.0854	0.1601	0.0539	0.0509	02:03:48	Yes



2	23.9	23.9	0.0840	0.0851	0.1541	0.0501	0.0493	02:06:40	Yes
---	------	------	--------	--------	--------	--------	--------	----------	-----

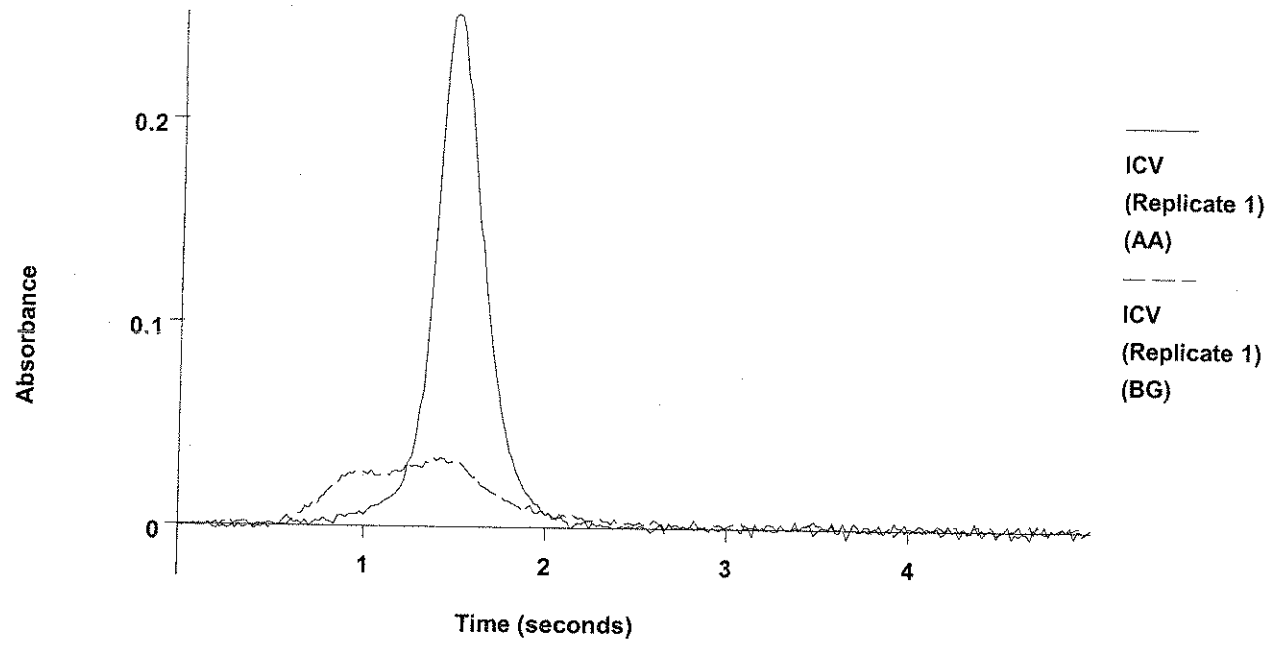
Mean: 23.9 23.9 0.0842  
 SD : 0.07 0.07 0.0002  
 %RSD: 0.28 0.28 0.28 ✓

QC value within specified limits.

=====  
 Element: As Seq. No.: 171 AS Loc.: 134 Date: 06/25/2006  
 Sample ID: ICV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 134  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.6	24.6	0.0864	0.0874	0.2522	0.0339	0.0338	02:09:31	Yes

**As**

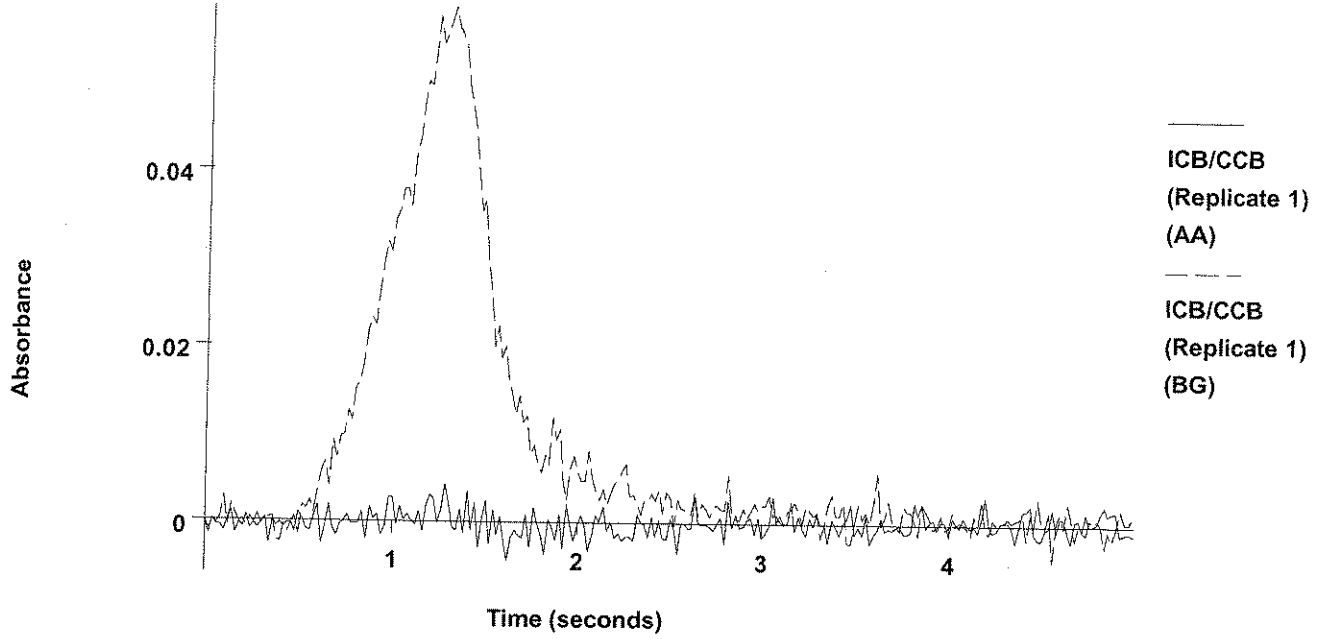


2 24.4 24.4 0.0858 0.0868 0.1985 0.0430 0.0417 02:12:20 Yes  
 Mean: 24.5 24.5 0.0861  
 SD : 0.12 0.12 0.0004  
 %RSD: 0.49 0.49 0.50 ✓  
 QC value within specified limits.

=====  
 Element: As Seq. No.: 172 AS Loc.: 148 Date: 06/25/2006  
 Sample ID: ICB/CCE  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0014	-0.0004	0.0043	0.0400	0.0585	02:15:09	Yes

As

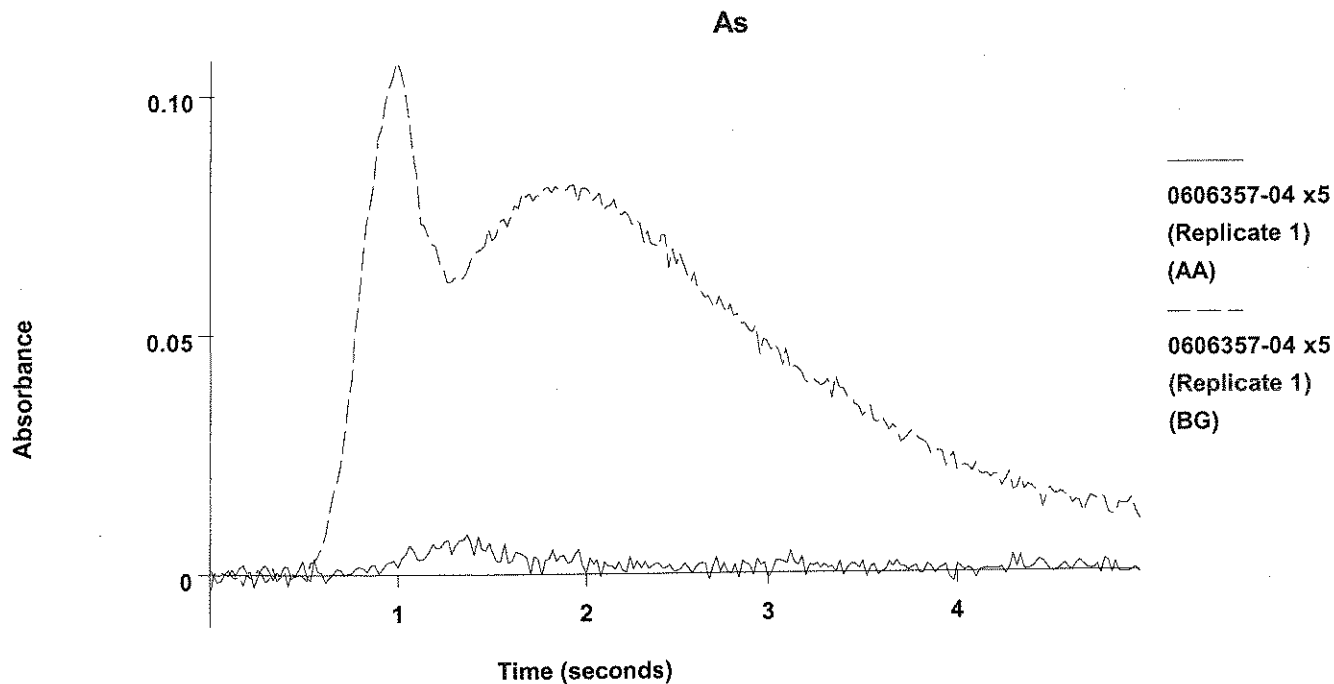


2            0.0            0.0    -0.0004    0.0006    0.0022    0.0407    0.0596 02:17:59 Yes  
 Mean:       -0.1            -0.1    -0.0009  
 SD :         0.20            0.20    0.0007  
 %RSD:       178                178       77.05 ✓  
 QC value within specified limits.

=====  
 Element: As    Seq. No.: 173    AS Loc.: 1    Date: 06/25/2006  
 Sample ID: BF62126-blk1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 1  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0010	0.0001	0.0027	0.0495	0.0509	02:20:48	Yes



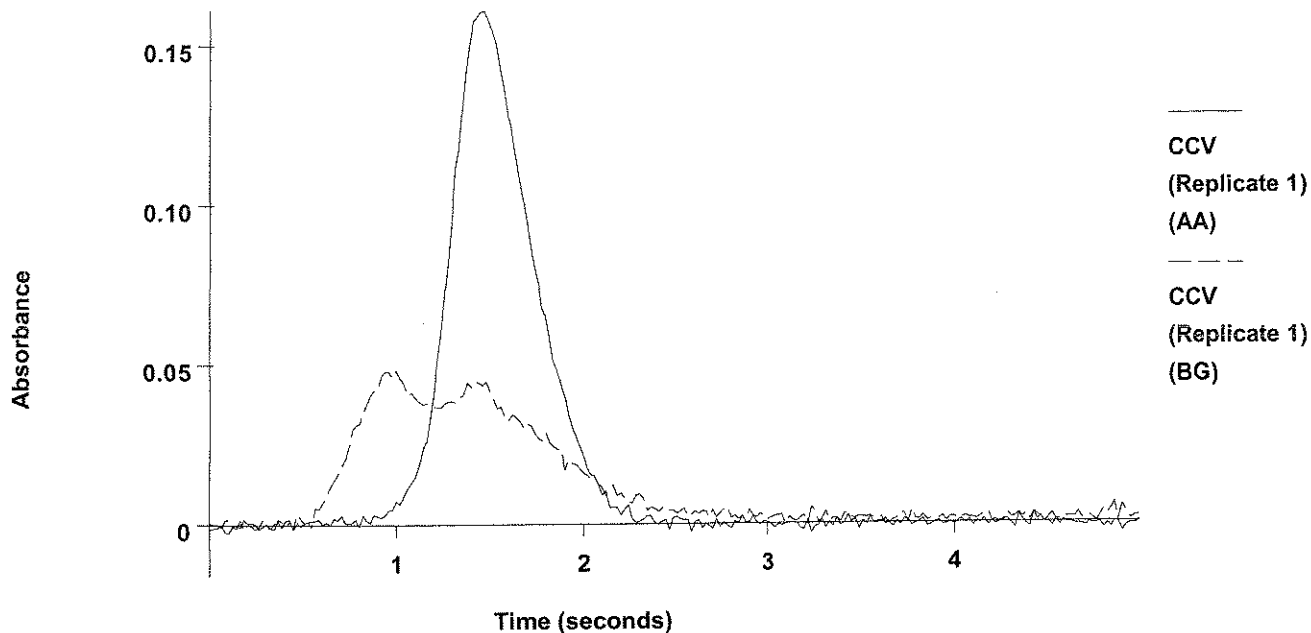


2	2.6	2.6	0.0086	0.0096	0.0086	0.2169	0.1026	05:04:11	Yes
Mean:	2.4	2.4	0.0079						
SD :	0.27	0.27	0.0010						
%RSD:	11.4	11.4	12.10						

=====  
 Element: As    Seq. No.: 202    AS Loc.: 126    Date: 06/25/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.5	23.5	0.0828	0.0838	0.1609	0.0565	0.0483	05:07:02	Yes

As



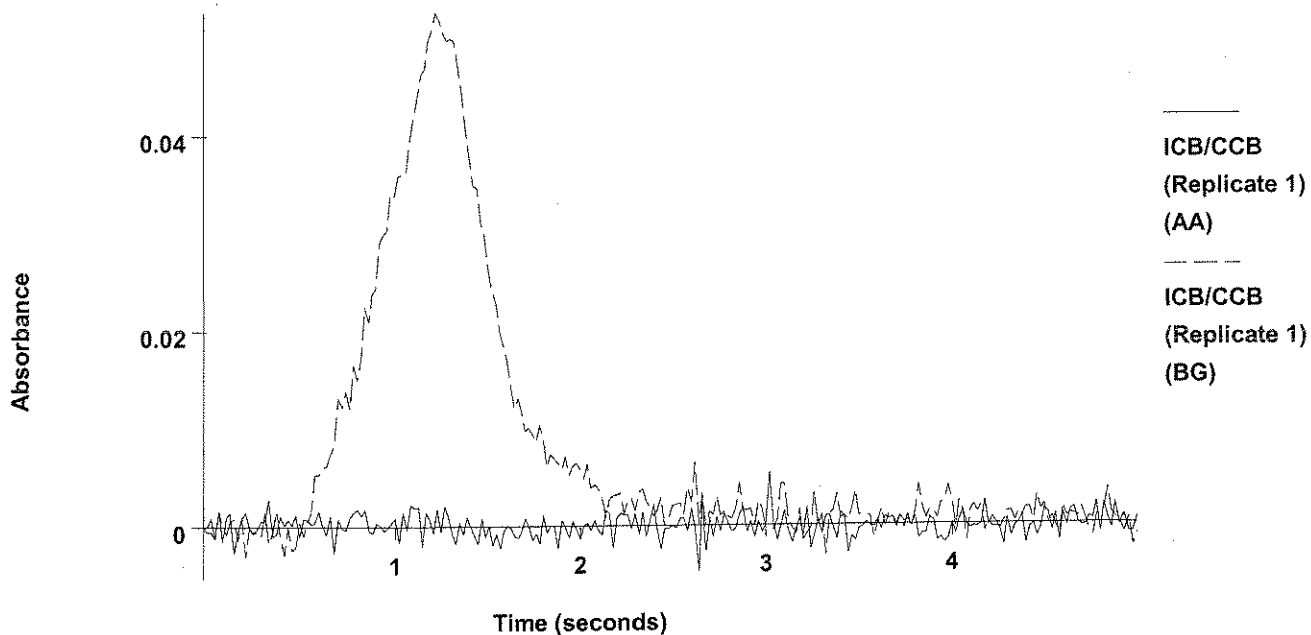
2	23.5	23.5	0.0826	0.0836	0.1715	0.0488	0.0423	05:09:56	Yes
Mean:	23.5	23.5	0.0827						
SD :	0.03	0.03	0.0001						
%RSD:	0.13	0.13	0.13						

QC value within specified limits. ✓

=====  
 Element: As    Seq. No.: 203    AS Loc.: 148    Date: 06/25/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0009	0.0001	0.0054	0.0380	0.0526	05:12:46	Yes

As



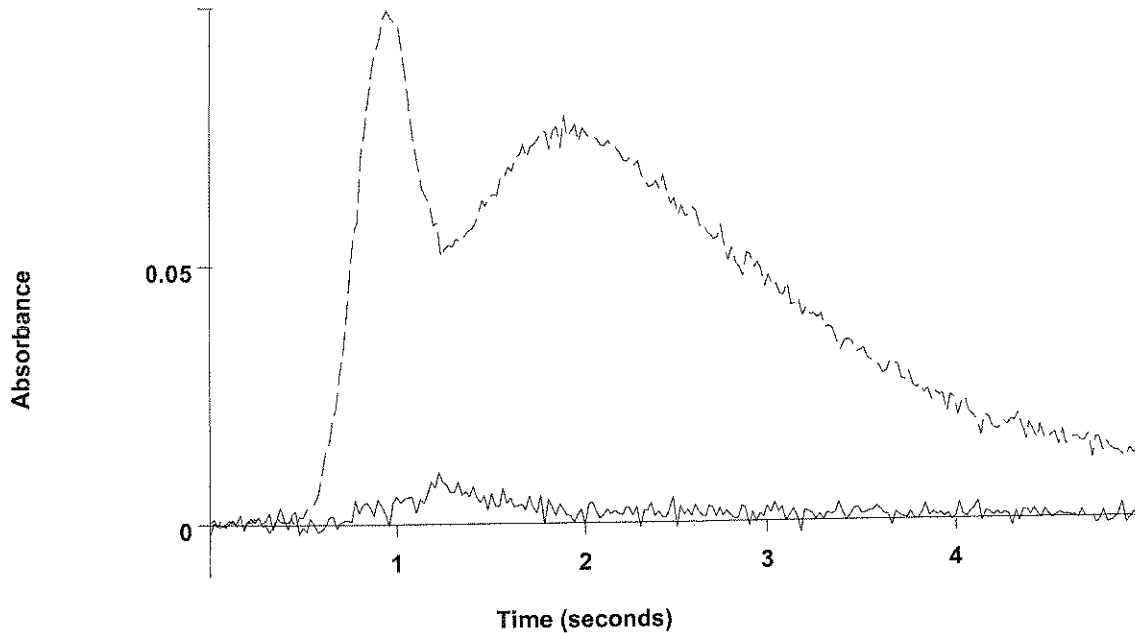
2	0.1	0.1	-0.0003	0.0007	0.0041	0.0363	0.0511	05:15:35	Yes
Mean:	0.0	0.0	-0.0006						
SD :	0.12	0.12	0.0004						
%RSD:	419	419	67.80						

QC value within specified limits.

=====  
 Element: As    Seq. No.: 204    AS Loc.: 21    Date: 06/25/2006  
 Sample ID: 0606357-05 x5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 21  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.4	2.4	0.0081	0.0091	0.0101	0.2046	0.0996	05:18:25	Yes

As



0606357-05 x5  
(Replicate 1)  
(AA)

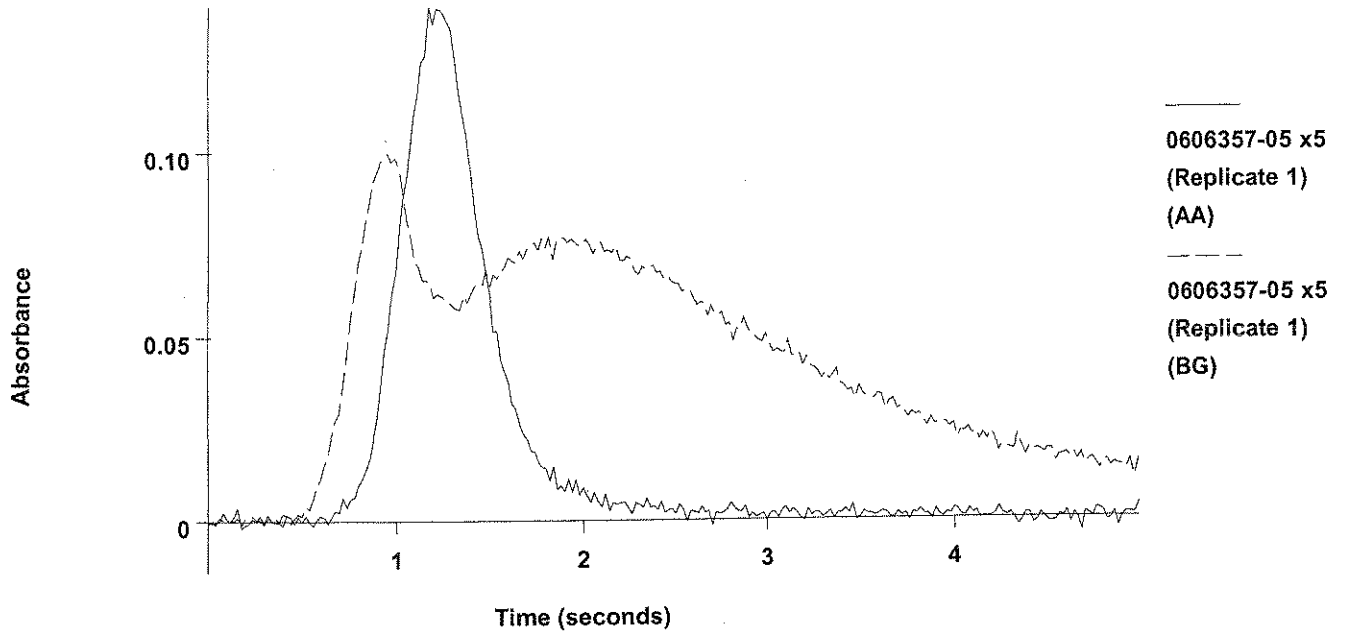
0606357-05 x5  
(Replicate 1)  
(BG)

2	2.5	2.5	0.0082	0.0092	0.0091	0.2101	0.1003	05:21:16	Yes
Mean:	2.4	2.4	0.0081						
SD :	0.02	0.02	0.0001						
%RSD:	0.71	0.71	0.75						

=====  
 Element: As    Seq. No.: 205    AS Loc.: 21    Date: 06/25/2006  
 Sample ID: 0606357-05 x5  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 21  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	22.0	22.0	0.0772	0.0783	0.1398	0.2126	0.0999	05:24:12	Yes

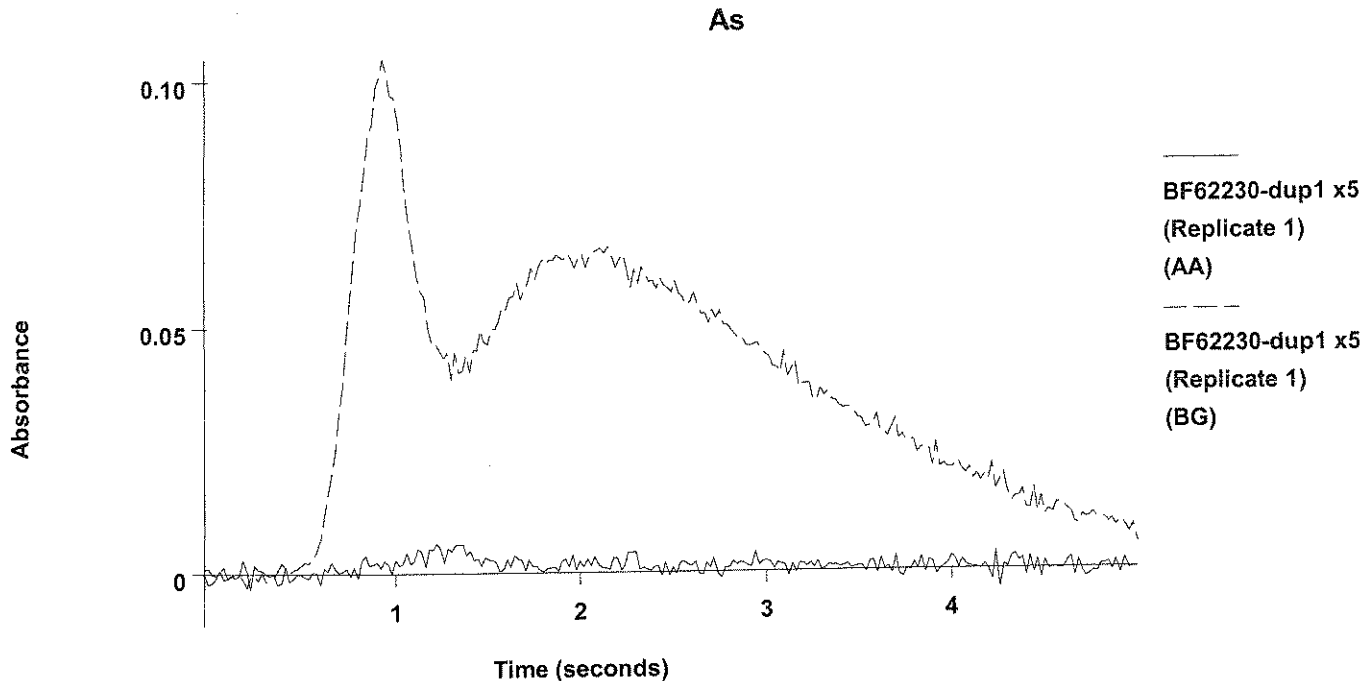
As



2	20.7	20.7	0.0728	0.0738	0.1357	0.2298	0.1047	05:27:10	Yes
Mean:	21.4	21.4	0.0750						
SD :	0.88	0.88	0.0031						
%RSD:	4.14	4.14	4.17						
Recovery for As = 94.6 % within 85 % to 115 %									

=====  
 Element: As    Seq. No.: 206    AS Loc.: 22    Date: 06/25/2006  
 Sample ID: BF62230-dup1 x5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 22  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.5	1.5	0.0047	0.0057	0.0061	0.1846	0.1047	05:29:59	Yes

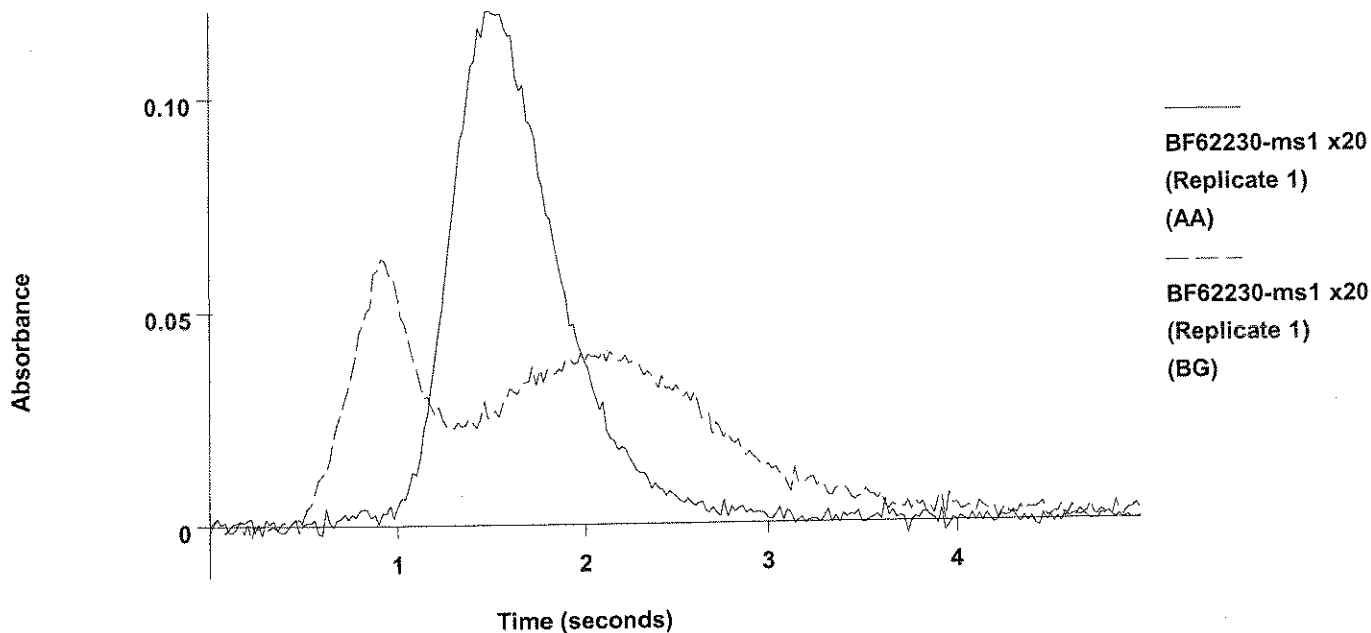


2	1.8	1.8	0.0057	0.0068	0.0074	0.1932	0.1051	05:32:50	Yes
Mean:	1.6	1.6	0.0052						
SD :	0.22	0.22	0.0008						
%RSD:	13.4	13.4	14.76						

=====  
 Element: As    Seq. No.: 207    AS Loc.: 23    Date: 06/25/2006  
 Sample ID: BF62230-msl x20  
 µL dispensed: 10 from 148, 5 from 147, 15 from 23  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.6	23.6	0.0829	0.0840	0.1205	0.0873	0.0627	05:35:40	Yes

As



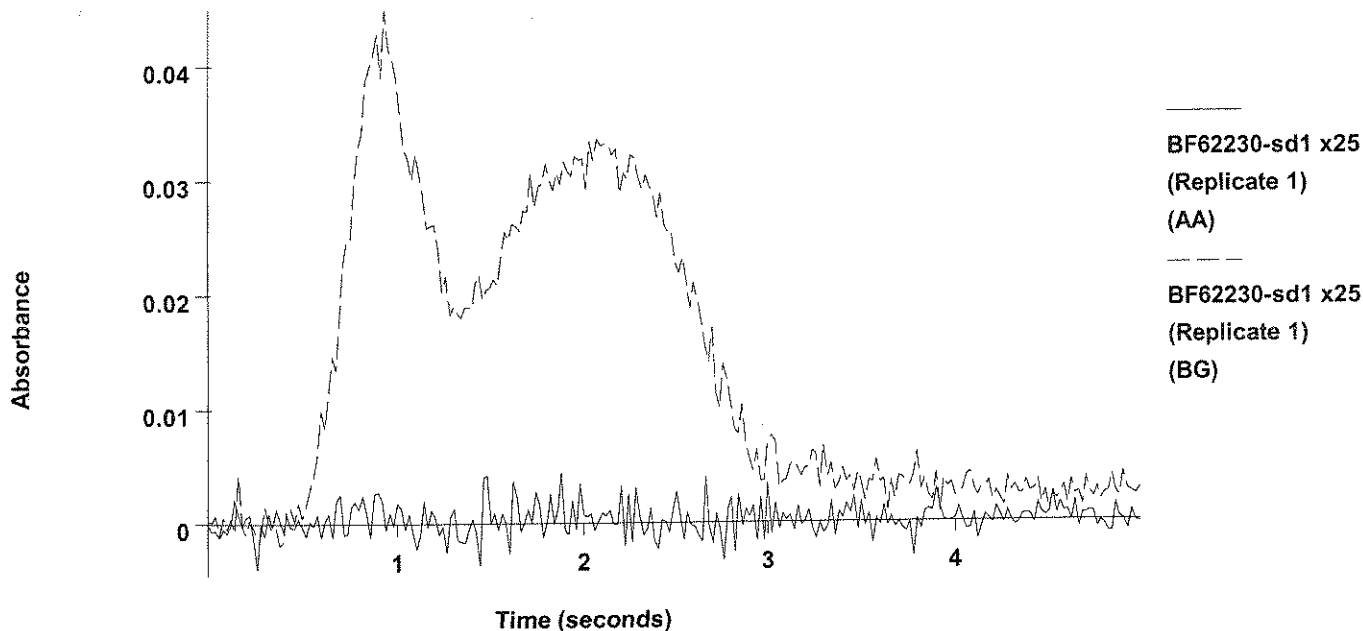
2	23.3	23.3	0.0820	0.0830	0.1206	0.0861	0.0627	05:38:31	Yes
Mean:	23.5	23.5	0.0825						
SD :	0.19	0.19	0.0007						
%RSD:	0.81	0.81	0.81						

94.1

=====  
 Element: As    Seq. No.: 208    AS Loc.: 24    Date: 06/25/2006  
 Sample ID: BF62230-sd1 x25  
 µL dispensed: 10 from 148, 5 from 147, 15 from 24  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0004	0.0014	0.0044	0.0665	0.0449	05:41:21	Yes

As



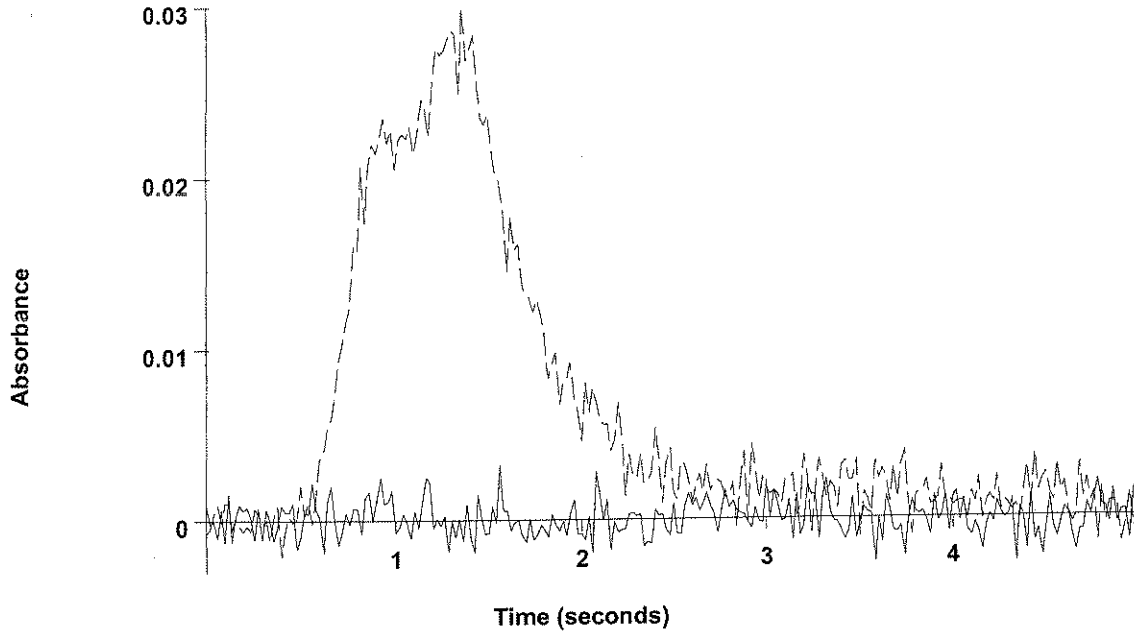
2	0.3	0.3	0.0005	0.0015	0.0043	0.0683	0.0509	05:44:12	Yes
Mean:	0.3	0.3	0.0004						
SD :	0.03	0.03	0.0001						
%RSD:	9.93	9.93	21.71						

=====  
 Element: As    Seq. No.: 209    AS Loc.: 26    Date: 06/25/2006  
 Sample ID: BF62207-blk1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 26  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0007	0.0003	0.0032	0.0310	0.0300	05:47:01	Yes



As

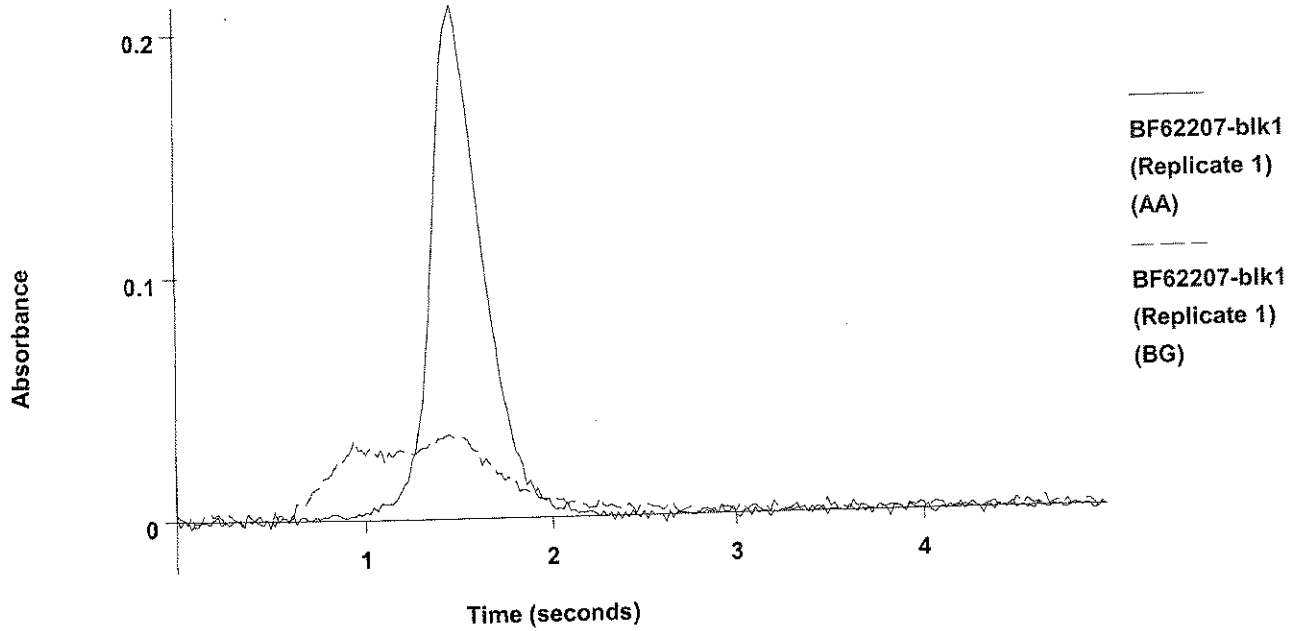


2	-0.2	-0.2	-0.0011	-0.0001	0.0033	0.0336	0.0358	05:49:51	Yes
Mean:	-0.1	-0.1	-0.0009						
SD :	0.07	0.07	0.0002						
%RSD:	62.3	62.3	26.68						

=====  
 Element: As    Seq. No.: 210    AS Loc.: 26    Date: 06/25/2006  
 Sample ID: BF62207-blk1  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 26  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.8	19.8	0.0697	0.0707	0.2117	0.0376	0.0349	05:52:47	Yes

As



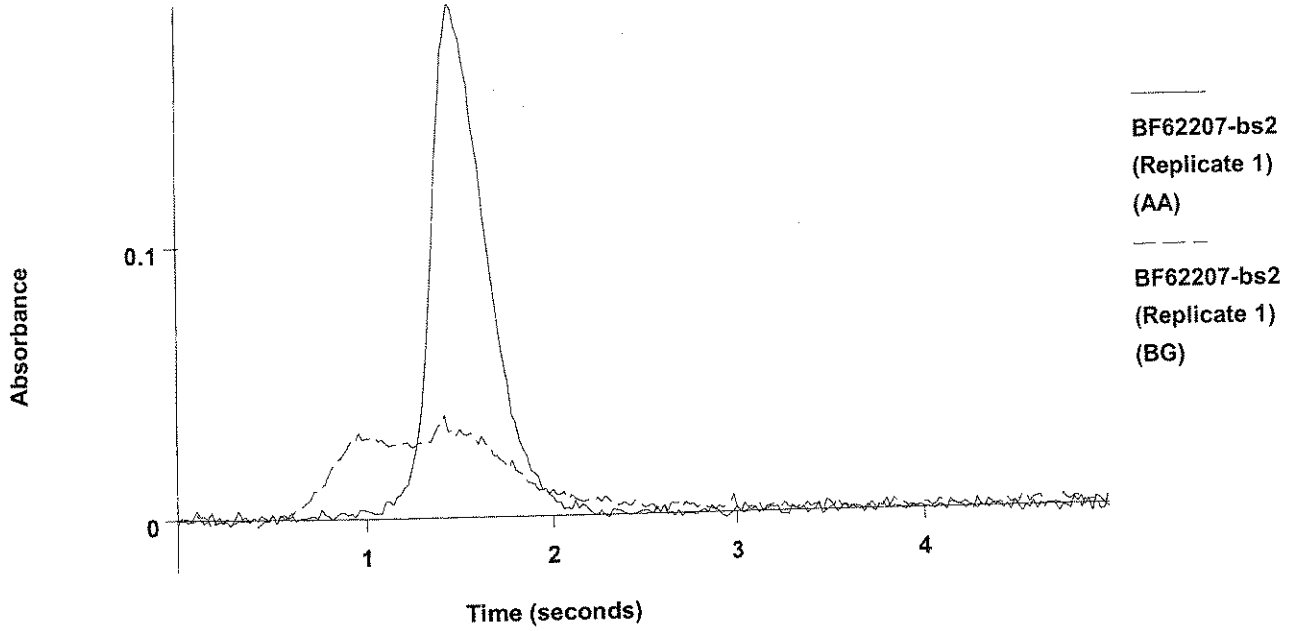
2	20.0	20.0	0.0701	0.0711	0.1843	0.0441	0.0432	05:55:44	Yes
Mean:	19.9	19.9	0.0699						
SD :	0.09	0.09	0.0003						
%RSD:	0.45	0.45	0.46						

Recovery for As = 99.5 % within 85 % to 115 %

=====  
 Element: As    Seq. No.: 211    AS Loc.: 27    Date: 06/25/2006  
 Sample ID: BF62207-bs2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 27  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.2	19.2	0.0673	0.0683	0.1892	0.0382	0.0375	05:58:33	Yes

As



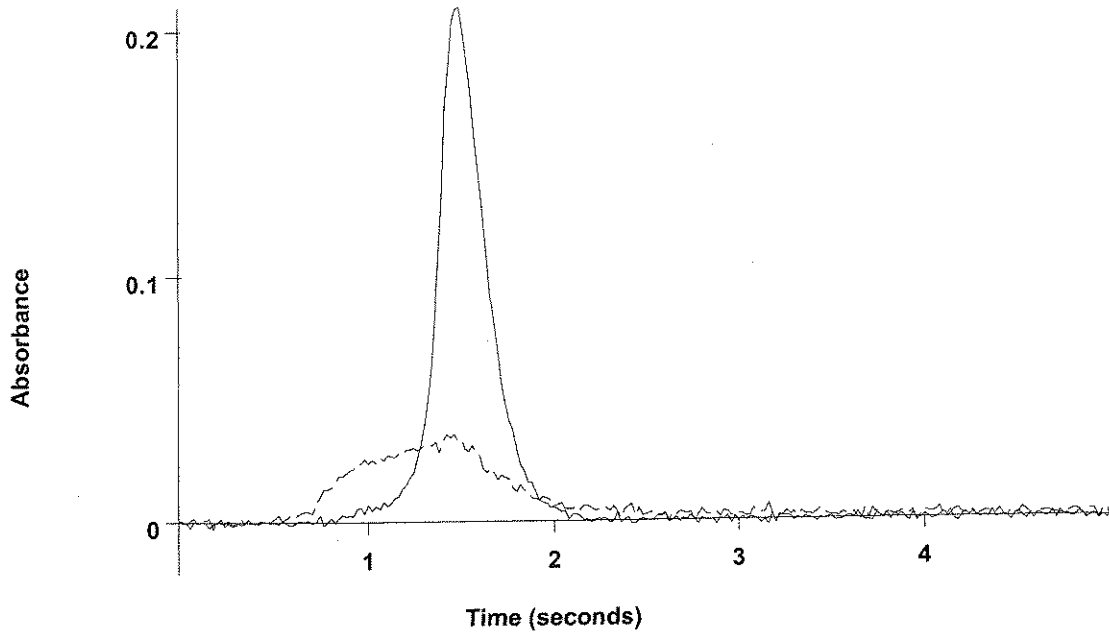
2	19.0	19.0	0.0668	0.0678	0.1872	0.0412	0.0368	06:01:22	Yes
Mean:	19.1	19.1	0.0670						
SD :	0.10	0.10	0.0004						
%RSD:	0.53	0.53	0.53						

*96-1*

=====  
 Element: As    Seq. No.: 212    AS Loc.: 28    Date: 06/25/2006  
 Sample ID: BF62207-bsd2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 28  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.1	19.1	0.0672	0.0682	0.2096	0.0364	0.0356	06:04:11	Yes

As



BF62207-bsd2  
(Replicate 1)  
(AA)

BF62207-bsd2  
(Replicate 1)  
(BG)

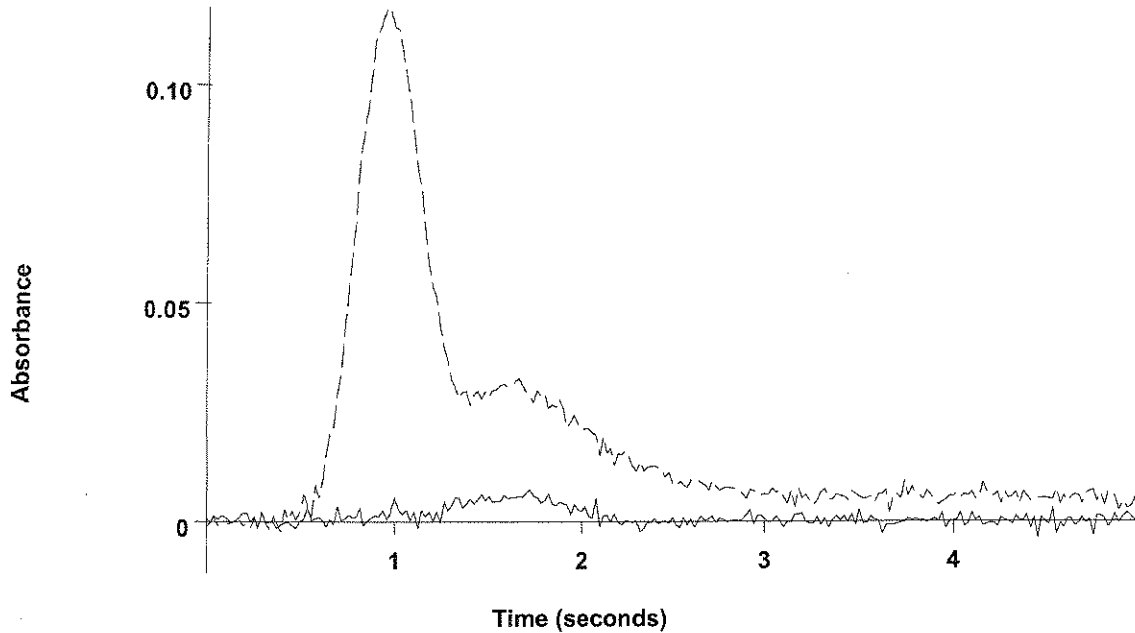
2	19.0	19.0	0.0666	0.0676	0.1762	0.0416	0.0415	06:07:01	Yes
Mean:	19.0	19.0	0.0669						
SD :	0.13	0.13	0.0004						
%RSD:	0.66	0.66	0.67						

95%

=====  
 Element: As    Seq. No.: 213    AS Loc.: 29    Date: 06/25/2006  
 Sample ID: BF62107-blk1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 29  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0002	0.0012	0.0026	0.0371	0.0504	06:09:50	Yes

As



0606321-03  
(Replicate 1)  
(AA)

0606321-03  
(Replicate 1)  
(BG)

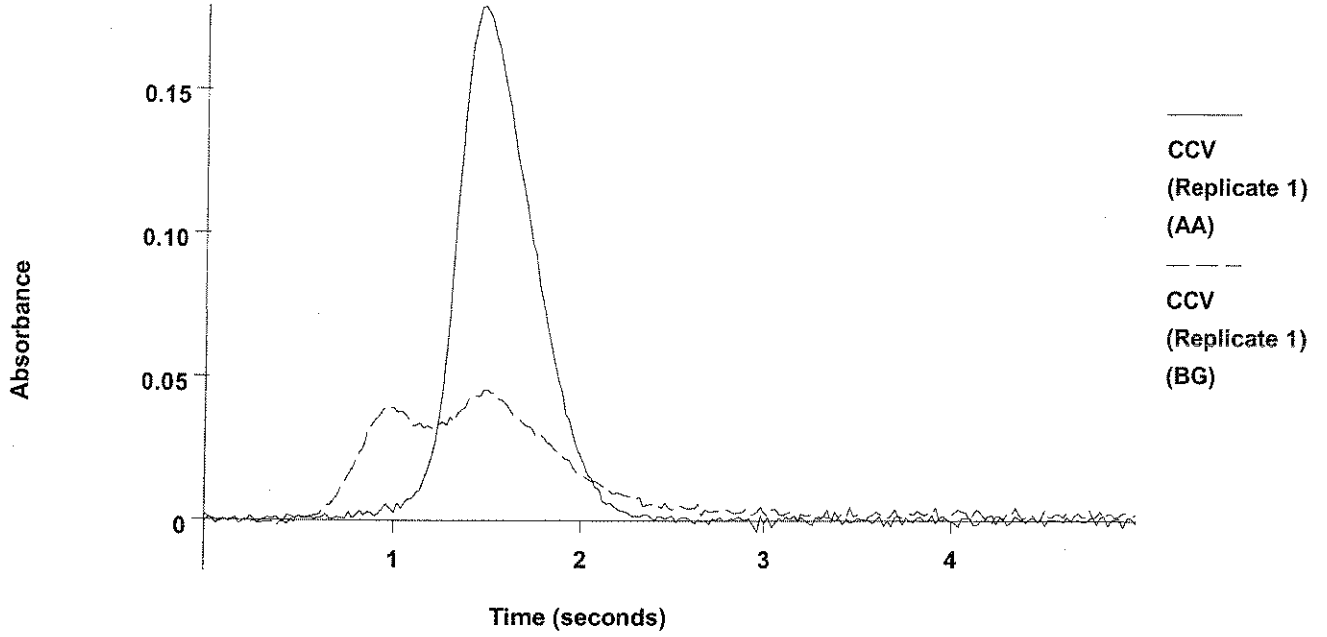
2	1.4	1.4	0.0045	0.0055	0.0069	0.0911	0.1092	07:43:55	Yes
Mean:	1.4	1.4	0.0043						
SD :	0.06	0.06	0.0002						
%RSD:	4.63	4.63	5.18						

*Handwritten signature*

=====  
 Element: As    Seq. No.: 230    AS Loc.: 126    Date: 06/25/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.7	24.7	0.0868	0.0878	0.1792	0.0532	0.0456	07:46:47	Yes

As



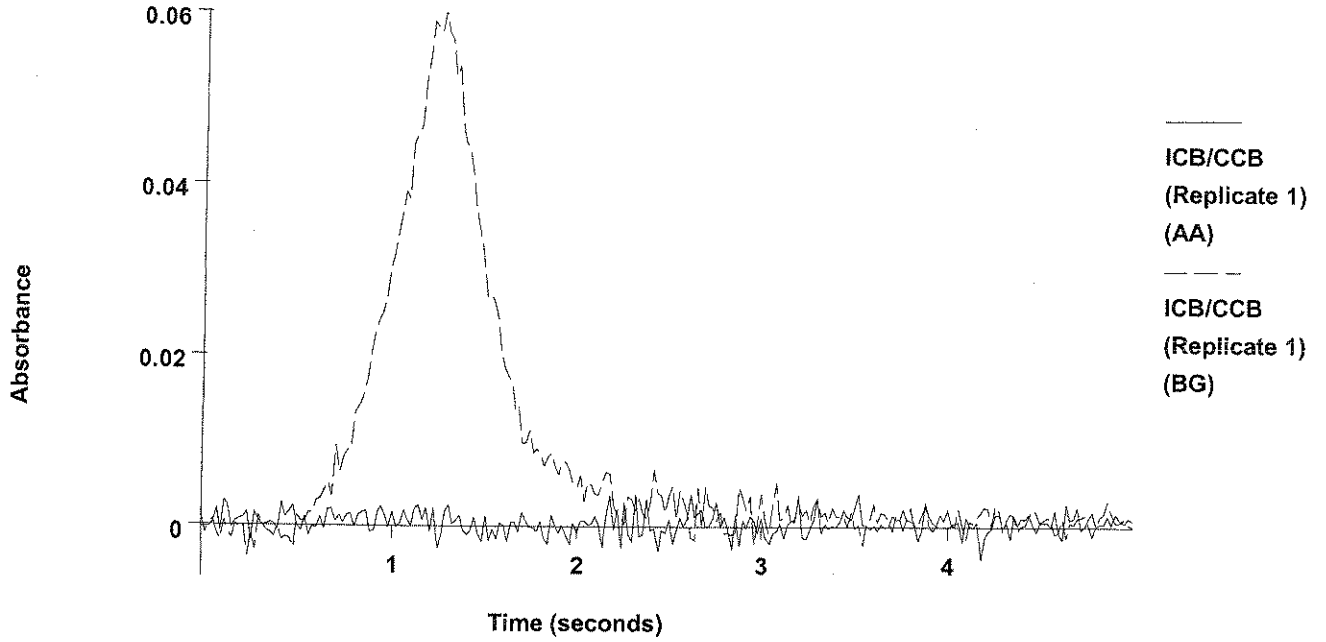
2	23.6	23.6	0.0831	0.0841	0.1763	0.0461	0.0421	07:49:41	Yes
Mean:	24.2	24.2	0.0850						
SD :	0.75	0.75	0.0026						
%RSD:	3.08	3.08	3.10						

QC value within specified limits.

=====  
 Element: As    Seq. No.: 231    AS Loc.: 148    Date: 06/25/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0011	0.0021	0.0038	0.0394	0.0601	07:52:31	Yes

As

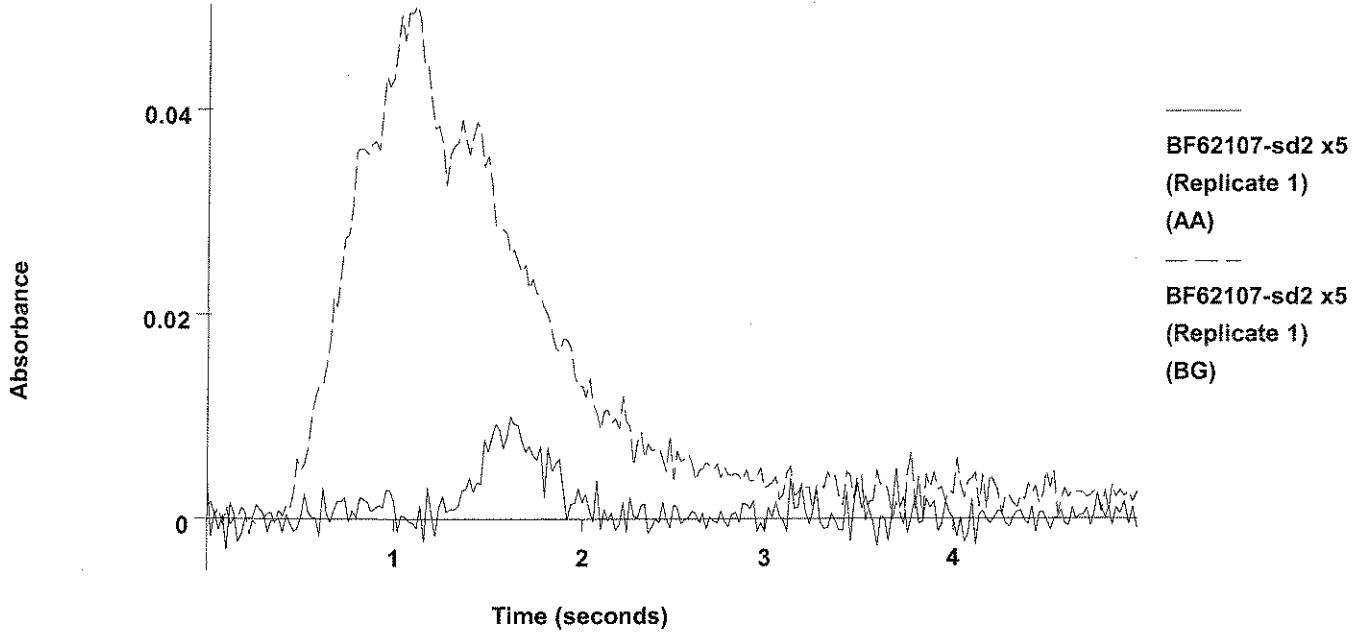


2            0.2            0.2            0.0001       0.0012       0.0057       0.0388       0.0590    07:55:20    Yes  
 Mean:       0.3            0.3            0.0006  
 SD :        0.18           0.18           0.0007  
 %RSD:      58.8           58.8           109.62  
 QC value within specified limits.

=====  
 Element: As    Seq. No.: 232       AS Loc.: 44    Date: 06/25/2006  
 Sample ID: 0606321-04  
 µL dispensed: 10 from 148, 5 from 147, 15 from 44

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	6.6	6.6	0.0227	0.0237	0.0378	0.0909	0.1118	07:58:10	Yes

As



2	1.6	1.6	0.0050	0.0060	0.0121	0.0473	0.0390	08:24:06	Yes
Mean:	1.4	1.4	0.0046						
SD :	0.17	0.17	0.0006						
%RSD:	11.4	11.4	12.71						

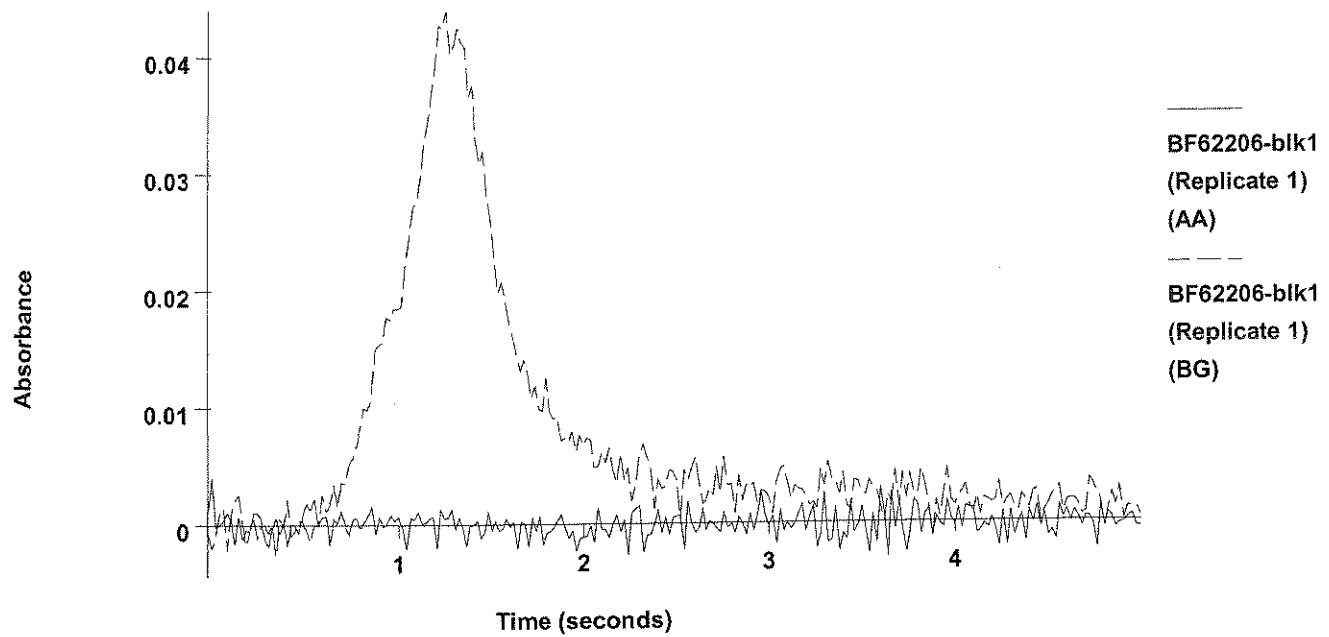
*Handwritten signature*

=====  
 Element: As    Seq. No.: 237    AS Loc.: 122    Date: 06/25/2006  
 Sample ID: BF62206-blk1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 122  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0012	-0.0002	0.0040	0.0350	0.0440	08:26:56	Yes



As

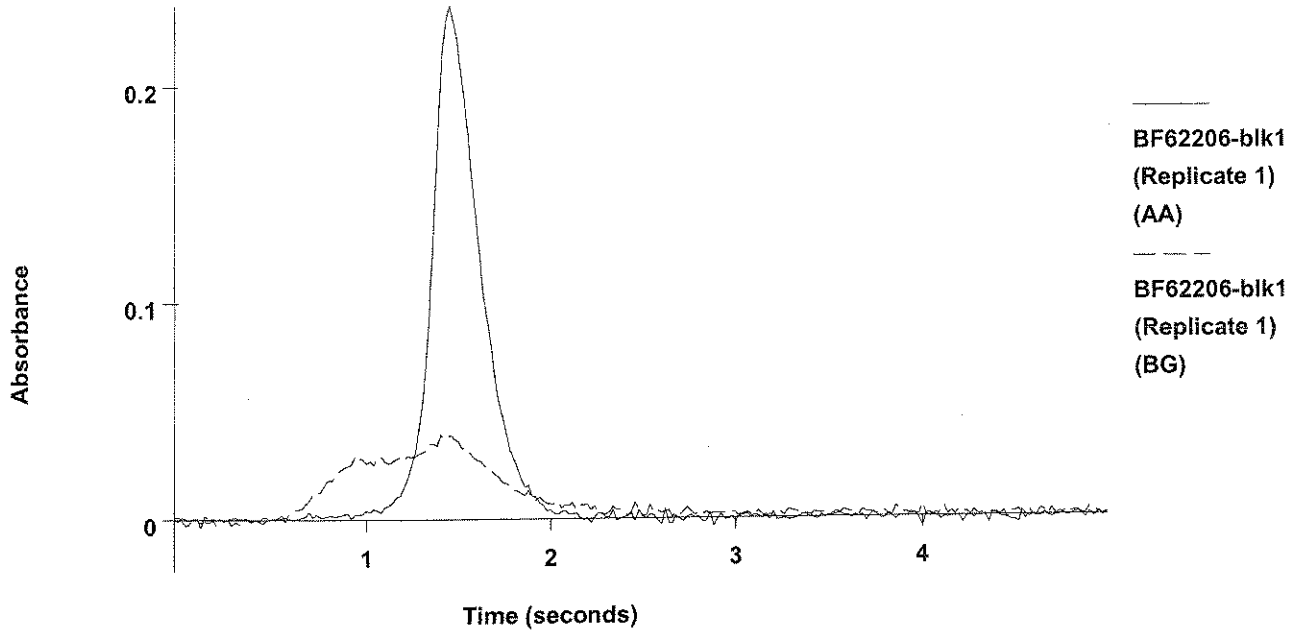


2	0.1	0.1	0.0000	0.0010	0.0037	0.0369	0.0458	08:29:47	Yes
Mean:	0.0	0.0	-0.0006						
SD :	0.24	0.24	0.0009						
%RSD:	1150	1150	144.90						

=====  
 Element: As    Seq. No.: 238    AS Loc.: 122    Date: 06/25/2006  
 Sample ID: BF62206-blk1  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 122  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	21.1	21.1	0.0740	0.0750	0.2376	0.0384	0.0392	08:32:48	Yes

As



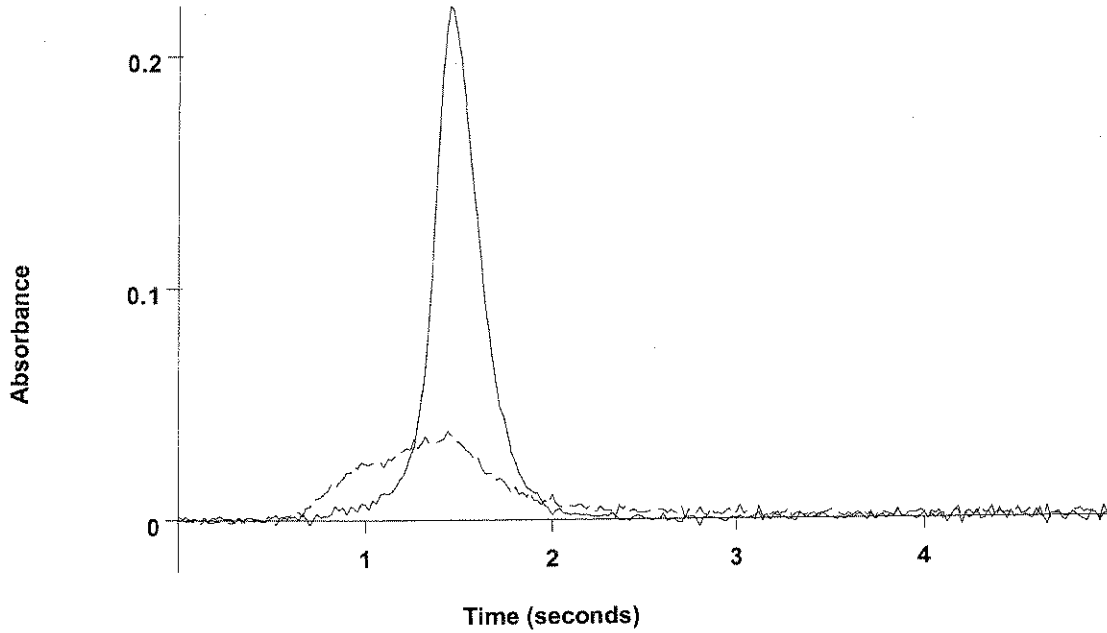
2	20.5	20.5	0.0719	0.0729	0.2161	0.0391	0.0381	08:35:51	Yes
Mean:	20.8	20.8	0.0729						
SD :	0.42	0.42	0.0015						
%RSD:	2.03	2.03	2.05						

Recovery for As = 103.8 % within 85 % to 115 %

=====  
 Element: As    Seq. No.: 239    AS Loc.: 123    Date: 06/25/2006  
 Sample ID: BF62206-bs2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 123  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.3	20.3	0.0711	0.0722	0.2220	0.0360	0.0385	08:38:42	Yes

As



BF62206-bs2  
(Replicate 1)  
(AA)

BF62206-bs2  
(Replicate 1)  
(BG)

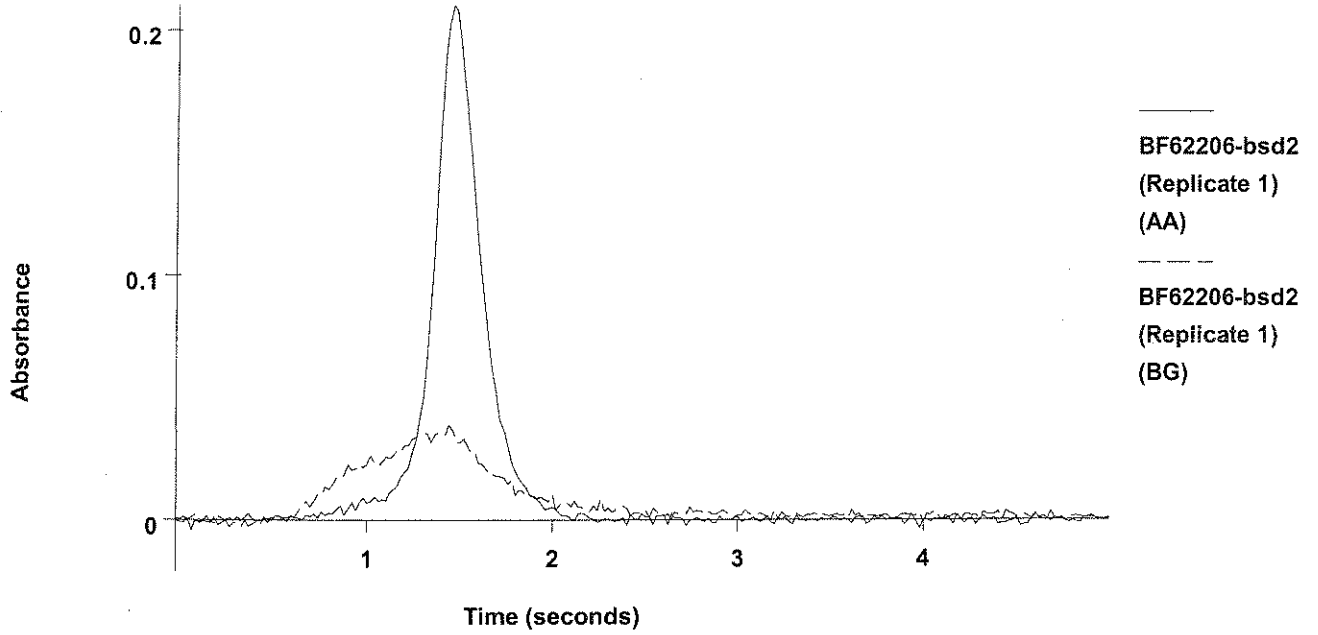
2	19.9	19.9	0.0700	0.0711	0.2221	0.0375	0.0384	08:41:34	Yes
Mean:	20.1	20.1	0.0706						
SD :	0.22	0.22	0.0008						
%RSD:	1.09	1.09	1.10						

*100%*

=====  
 Element: As    Seq. No.: 240    AS Loc.: 125    Date: 06/25/2006  
 Sample ID: BF62206-bsd2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 125  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	18.6	18.6	0.0654	0.0664	0.2102	0.0363	0.0391	08:44:26	Yes

As



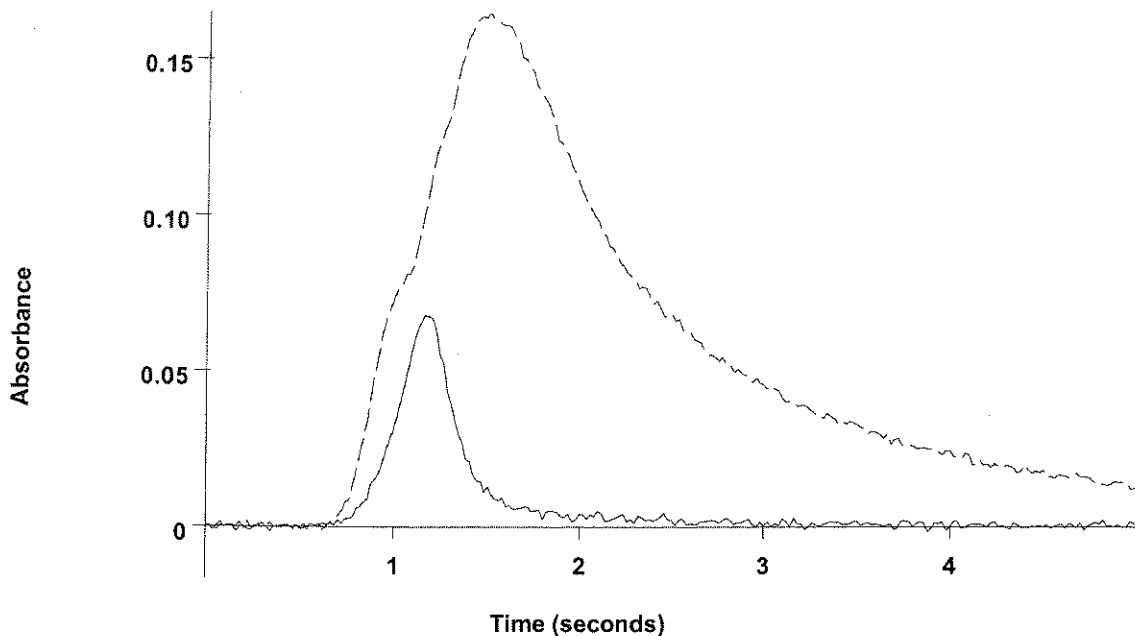
2	18.7	18.7	0.0656	0.0667	0.1835	0.0420	0.0443	08:47:20	Yes
Mean:	18.7	18.7	0.0655						
SD :	0.06	0.06	0.0002						
%RSD:	0.30	0.30	0.30						

94%

=====  
 Element: As    Seq. No.: 241    AS Loc.: 127    Date: 06/25/2006  
 Sample ID: 0606341-0ldis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 127  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.9	0.9	0.0027	0.0037	0.0097	0.0853	0.1065	08:50:12	Yes

As



0606341-03dis  
(Replicate 1)  
(AA)

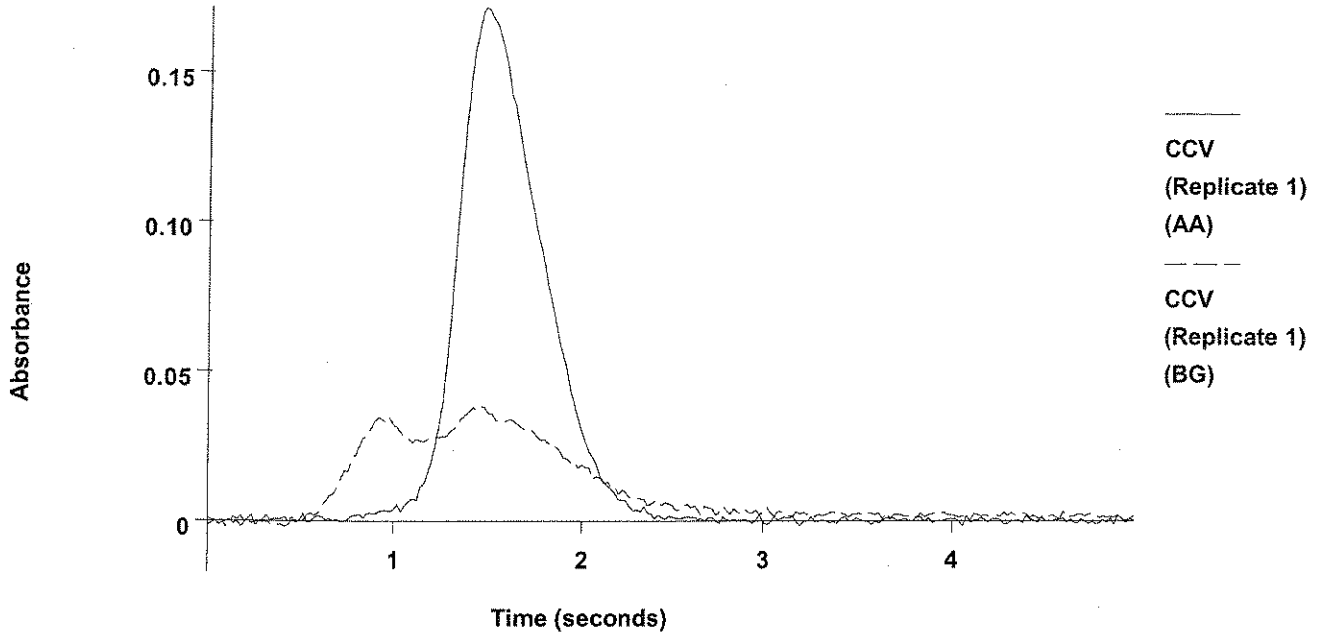
0606341-03dis  
(Replicate 1)  
(BG)

2	9.5	9.5	0.0332	0.0342	0.0624	0.2800	0.1686	09:04:33	Yes
Mean:	9.1	9.1	0.0315						
SD :	0.67	0.67	0.0024						
%RSD:	7.35	7.35	7.47						

=====  
 Element: As    Seq. No.: 244    AS Loc.: 126    Date: 06/25/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.1	25.1	0.0884	0.0894	0.1717	0.0487	0.0384	09:07:24	Yes

As

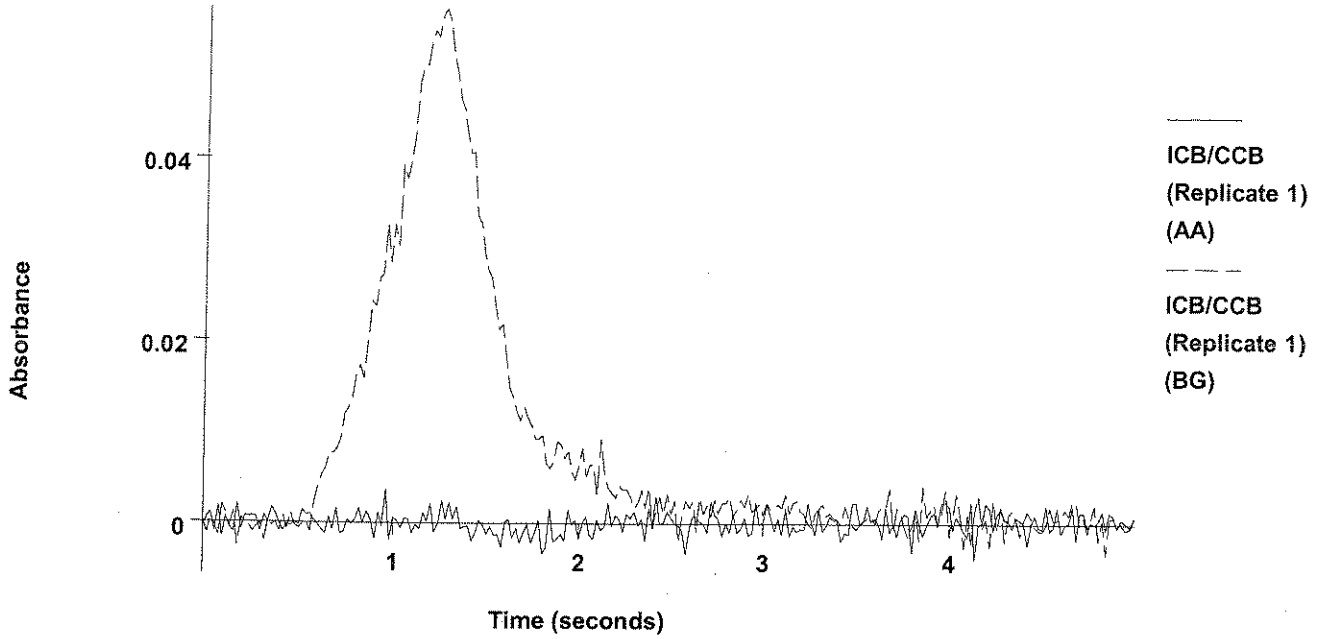


2            25.1        25.1        0.0883    0.0893    0.1836    0.0508    0.0410 09:10:17 Yes  
 Mean:       25.1        25.1        0.0884  
 SD :        0.02        0.02        0.0001  
 %RSD:      0.07        0.07        0.07  
 QC value within specified limits.

=====  
 Element: As    Seq. No.: 245        AS Loc.: 148    Date: 06/25/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	-0.0006	0.0004	0.0037	0.0391	0.0564	09:13:07	Yes

As



2            0.0            0.0    -0.0005    0.0005    0.0043    0.0402    0.0533    09:15:56    Yes  
 Mean:       0.0            0.0    -0.0006  
 SD :        0.02           0.02    0.0001  
 %RSD:      87.8           87.8    10.16  
 QC value within specified limits.

=====  
 Element: As    Seq. No.: 246    AS Loc.: 132    Date: 06/25/2006  
 Sample ID: 0606341-01  
 µL dispensed: 10 from 148, 5 from 147, 15 from 132  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.5	1.5	0.0047	0.0057	0.0137	0.0912	0.0992	09:18:45	Yes

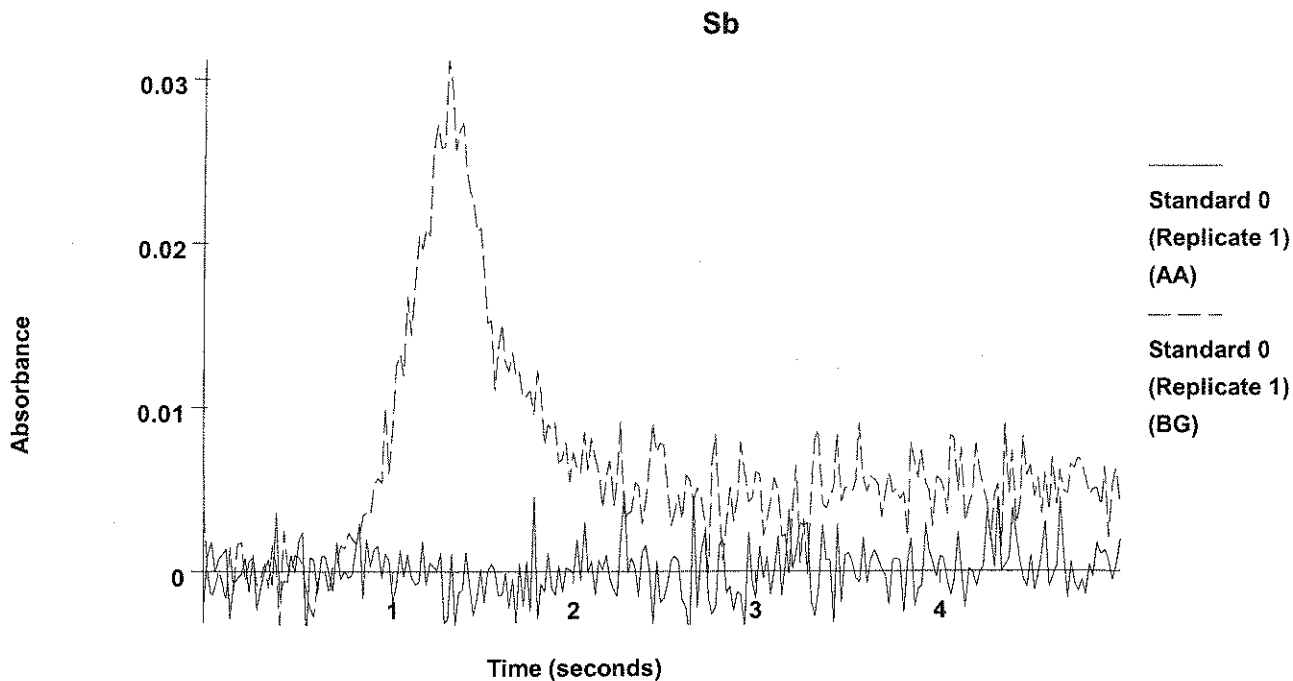
Method Name: Sb 5  
 Method Description: Sb 5  
 Element: Sb

Date: 06/25/2006  
 Technique: Furnace  
 Calibration Type:  
 Sb, Calc. Intercept : Linear  
 Wavelength: 217.6 nm  
 Energy: 100  
 Slit Width: 0.7  
 Lamp Current: 20 mA  
 Sample Info Name: 062306YA.SIF

Results Data Set Name: 062406yad

Element: Sb Seq. No.: 252 AS Loc.: 148 Date: 06/25/2006  
 Sample ID: Standard 0  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc	StndConc	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0003	0.0003	0.0048	0.0327	0.0312	09:54:47	Yes



2			0.0008	0.0008	0.0043	0.0329	0.0374	09:57:37	Yes
Mean:			0.0006						
SD :			0.0004						
%RSD:			62.96						

Auto-zero performed.

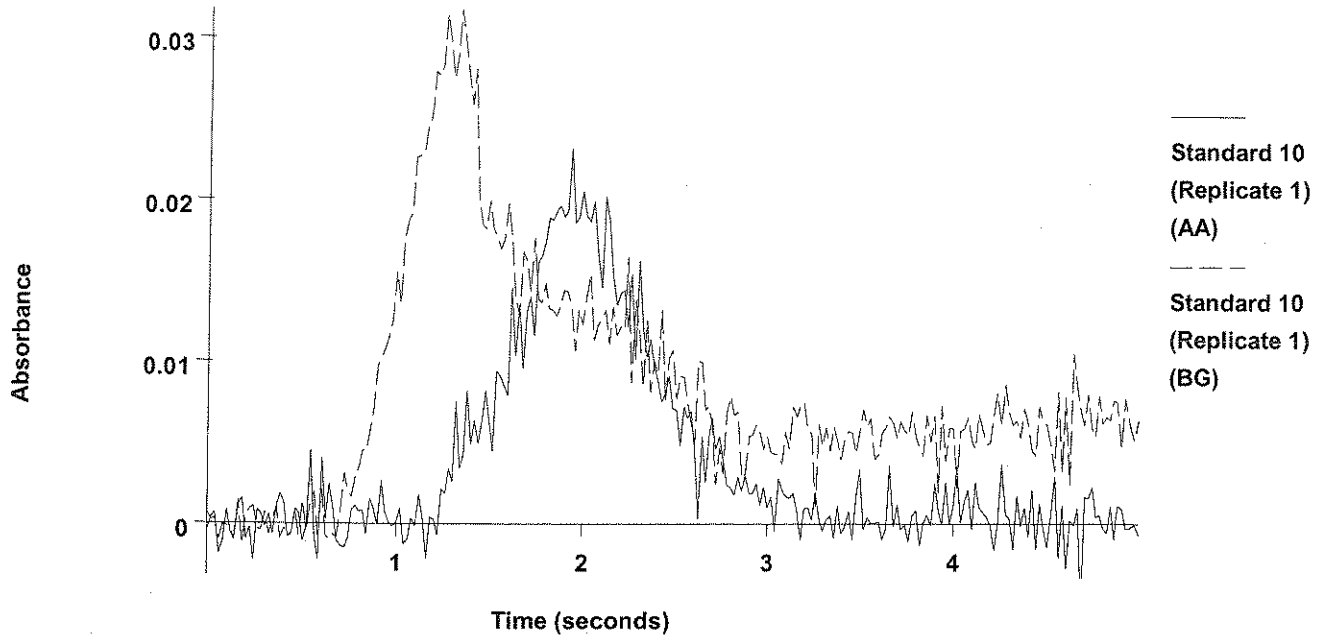
Element: Sb Seq. No.: 253 AS Loc.: 121 Date: 06/25/2006  
 Sample ID: Standard 5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 121

Repl #	SampleConc	StndConc	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0087	0.0093	0.0153	0.0372	0.0304	10:00:53	Yes





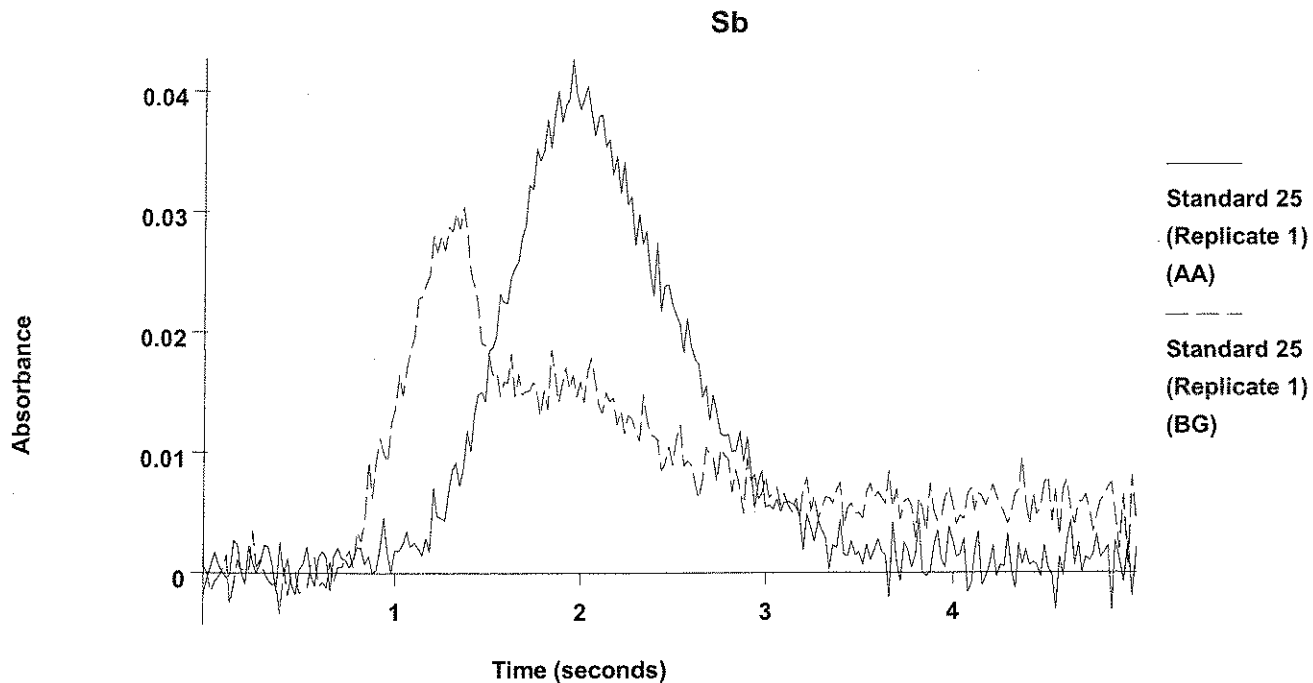
Sb



2  
 Mean: 0.0189 0.0195 0.0230 0.0384 0.0244 10:09:54 Yes  
 SD : 0.0184  
 SD : 0.0007  
 %RSD: 3.98  
 [Sb] Standard number 2 applied. [10.0]  
 Correlation Coefficient: 0.99994 Slope: 0.00184  
 Intercept : -0.00006

=====  
 Element: Sb Seq. No.: 255 AS Loc.: 126 Date: 06/25/2006  
 Sample ID: Standard 25  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126

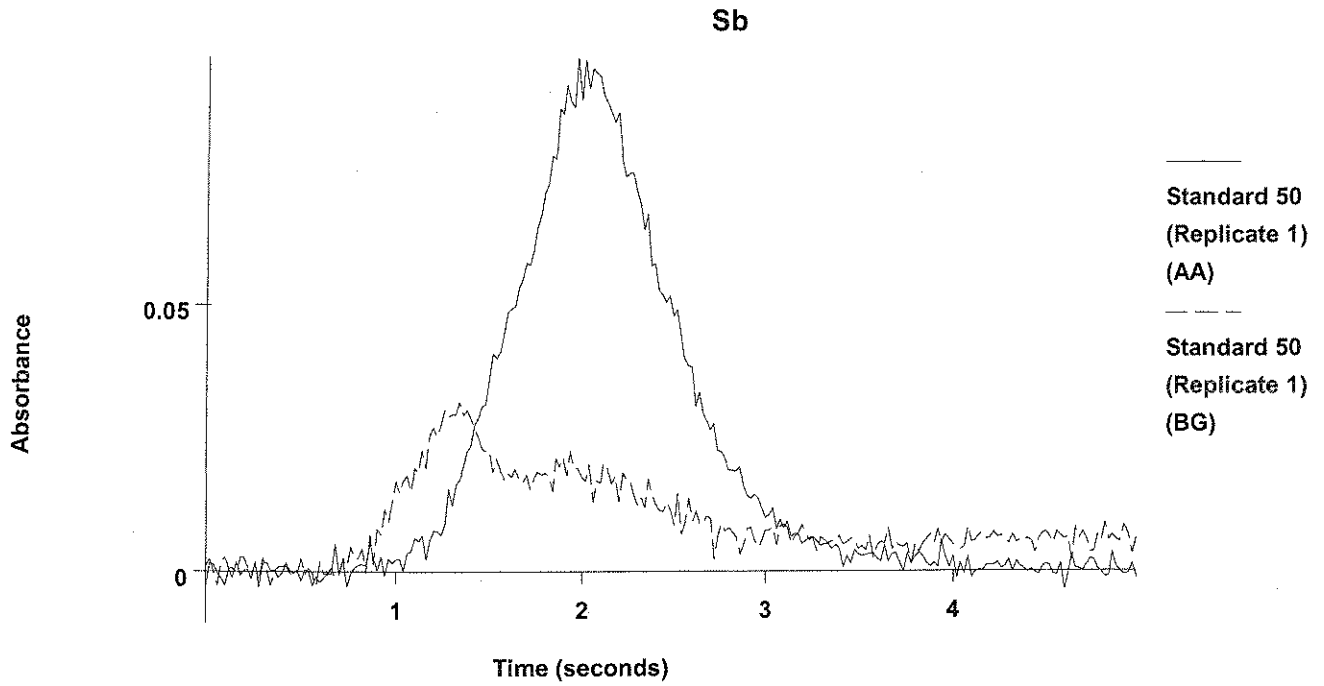
Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0454	0.0460	0.0427	0.0435	0.0304	10:13:12	Yes



2                                    0.0444    0.0449    0.0378    0.0431    0.0265 10:16:05 Yes  
 Mean:                                0.0449  
 SD :                                    0.0008  
 %RSD:                                 1.70  
 [Sb] Standard number 3 applied. [25.0]  
 Correlation Coefficient: 0.99994                                    Slope: 0.00180  
 Intercept : 0.00012

=====  
 Element: Sb    Seq. No.: 256            AS Loc.: 129    Date: 06/25/2006  
 Sample ID: Standard 50  
 µL dispensed: 10 from 148, 5 from 147, 15 from 129  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0939	0.0944	0.0965	0.0469	0.0319	10:19:23	Yes

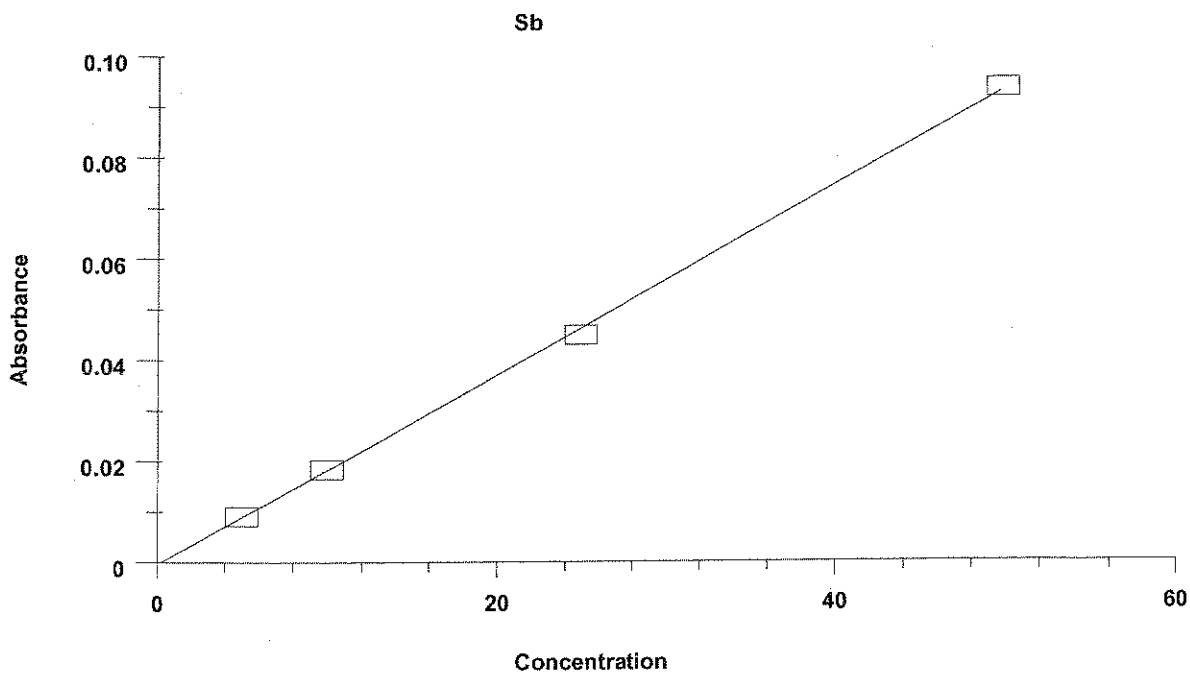


2                                    0.0931    0.0937    0.0983    0.0401    0.0229   10:22:13   Yes  
 Mean:                                0.0935  
 SD :                                    0.0006  
 %RSD:                                 0.60  
 [Sb] Standard number 4 applied. [50.0]  
 Correlation Coefficient: 0.99979                                    Slope: 0.00187  
 Intercept : -0.00043

-----  
 Calibration data for Sb

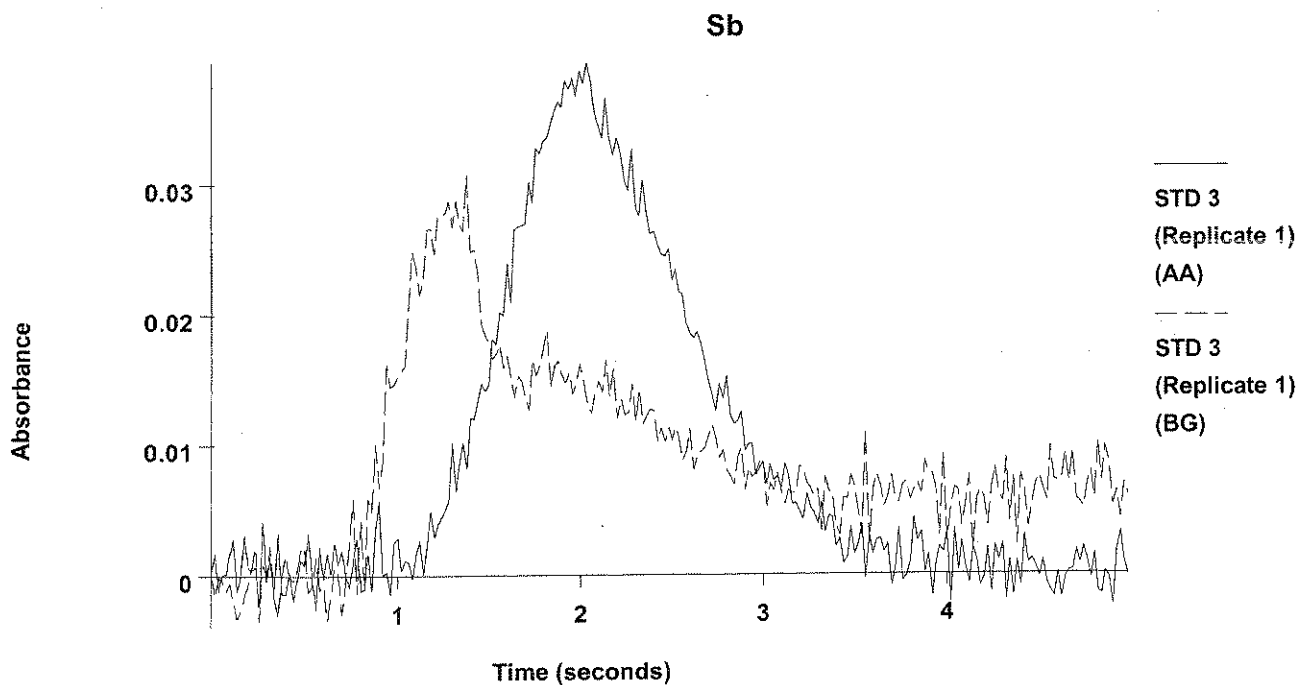
Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	0.0006	-	----	----	----
Standard 5	0.0090	5.0	5.1	0.00	5.30
Standard 10	0.0184	10.0	10.1	0.00	3.98
Standard 25	0.0449	25.0	24.3	0.00	1.70
Standard 50	0.0935	50.0	50.3	0.00	0.60
Correlation Coefficient: 0.99979		Slope:	0.00187	Intercept:	-0.0004

-----



=====  
 Element: Sb    Seq. No.: 257    AS Loc.: 126    Date: 06/25/2006  
 Sample ID: STD 3  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.1	24.1	0.0446	0.0452	0.0393	0.0452	0.0307	10:25:10	Yes



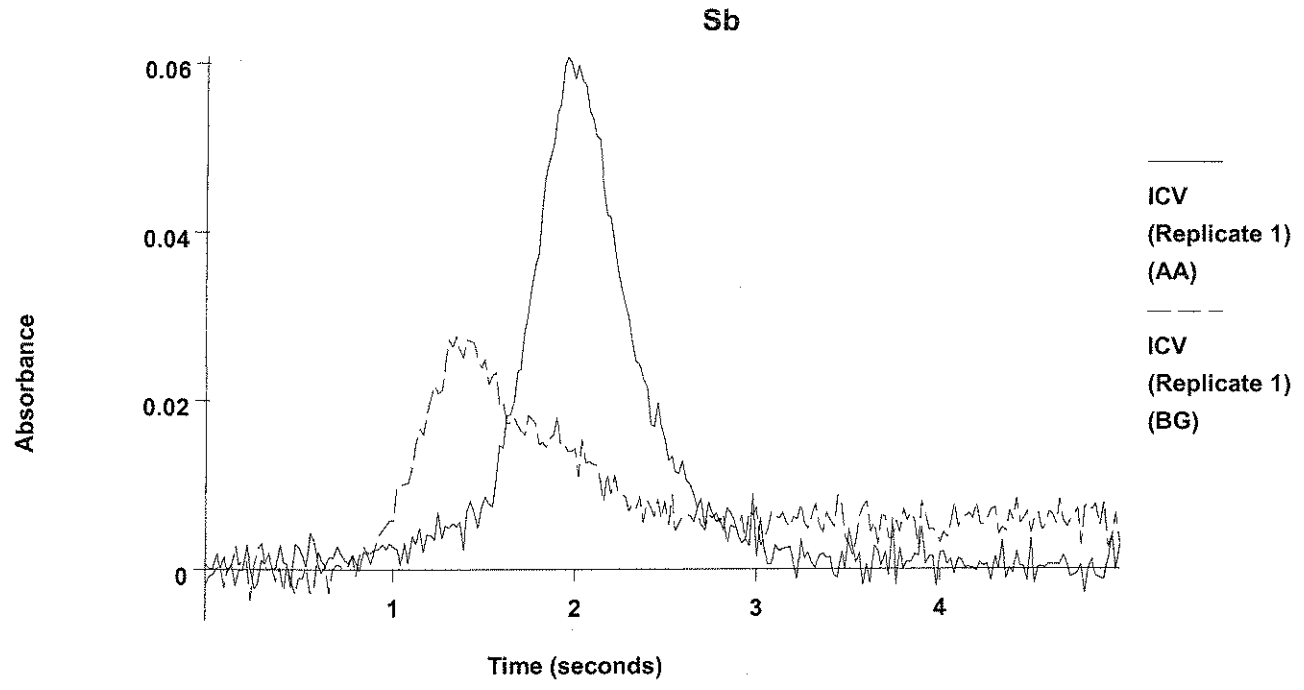
2	24.6	24.6	0.0456	0.0461	0.0394	0.0432	0.0300	10:28:03	Yes
---	------	------	--------	--------	--------	--------	--------	----------	-----

Mean: 24.4 24.4 0.0451  
 SD : 0.35 0.35 0.0007  
 %RSD: 1.44 1.44 1.46

QC value within specified limits.

=====  
 Element: Sb Seq. No.: 258 AS Loc.: 134 Date: 06/25/2006  
 Sample ID: ICV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 134  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.5	23.5	0.0433	0.0439	0.0608	0.0381	0.0276	10:30:54	Yes



2 23.0 23.0 0.0425 0.0430 0.0565 0.0410 0.0365 10:33:45 Yes

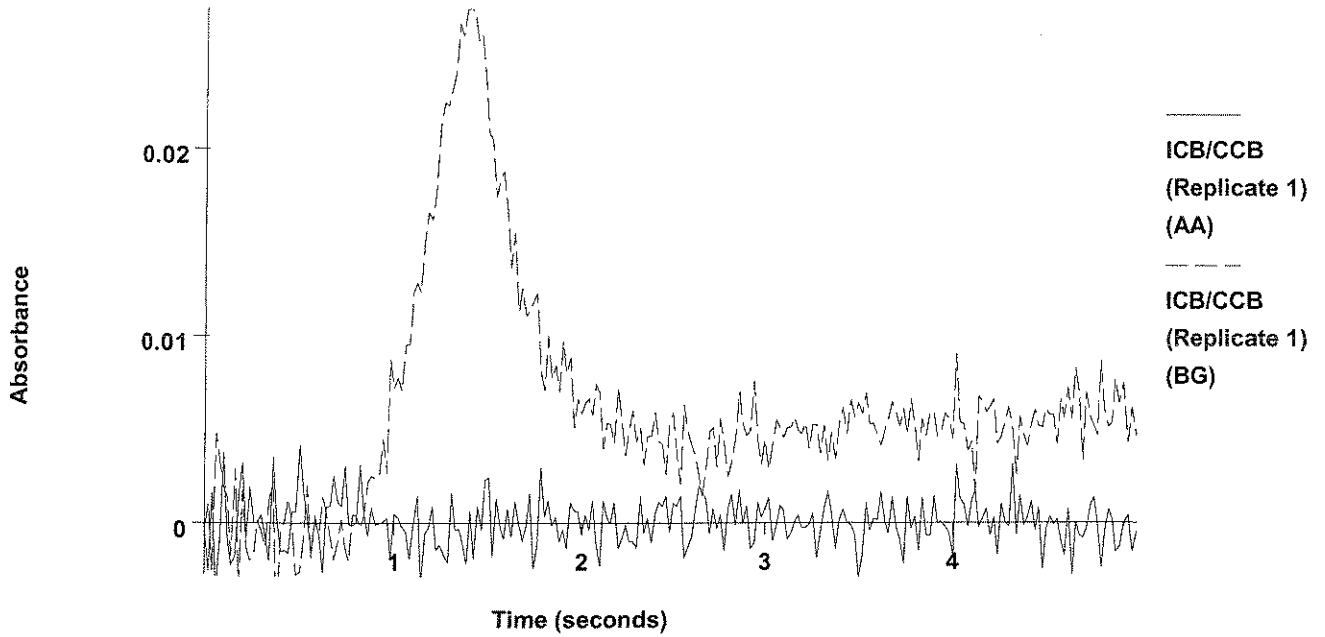
Mean: 23.2 23.2 0.0429  
 SD : 0.32 0.32 0.0006  
 %RSD: 1.40 1.40 1.41

QC value within specified limits.

=====  
 Element: Sb Seq. No.: 259 AS Loc.: 148 Date: 06/25/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	-0.0005	0.0001	0.0042	0.0312	0.0274	10:36:34	Yes

Sb



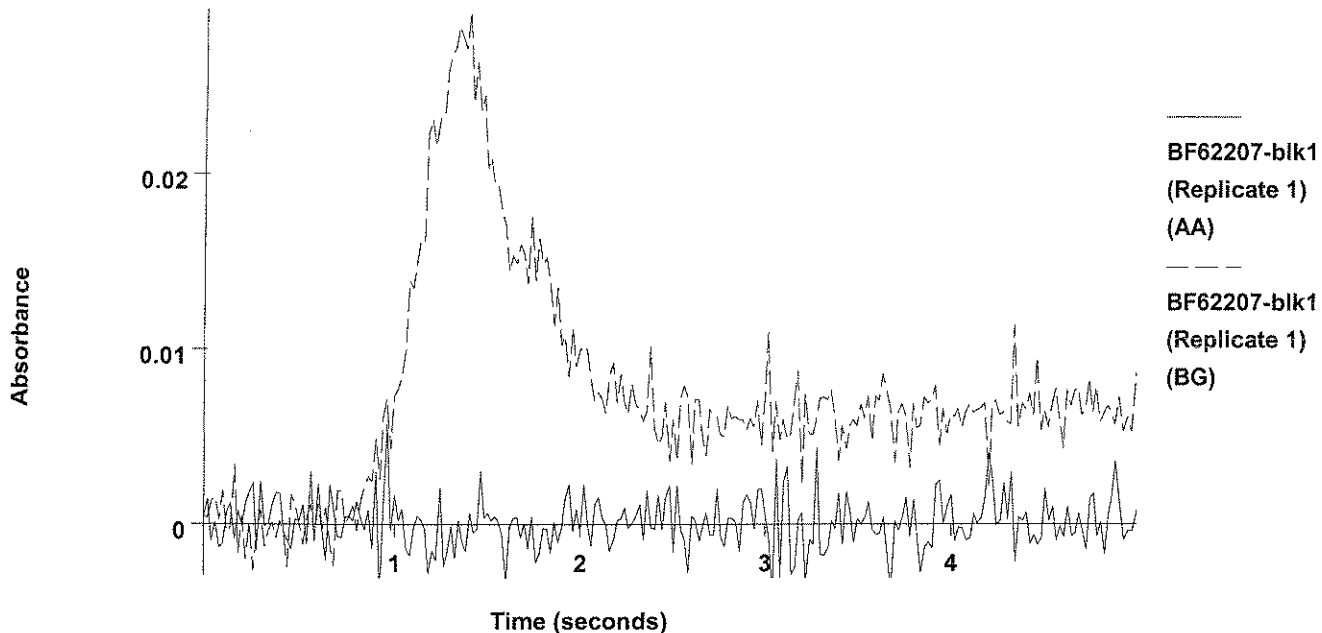
2	-0.3	-0.3	-0.0010	-0.0004	0.0033	0.0368	0.0351	10:39:23	Yes
Mean:	-0.2	-0.2	-0.0007						
SD :	0.19	0.19	0.0004						
%RSD:	120	120	48.90						

QC value within specified limits.

=====  
 Element: Sb    Seq. No.: 260    AS Loc.: 26    Date: 06/25/2006  
 Sample ID: BF62207-blk1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 26  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	-0.0001	0.0005	0.0058	0.0379	0.0294	10:42:12	Yes

Sb



2	-0.5	-0.5	-0.0014	-0.0009	0.0033	0.0377	0.0333	10:45:02	Yes
Mean:	-0.2	-0.2	-0.0008						
SD :	0.51	0.51	0.0010						
%RSD:	296	296	126.85						

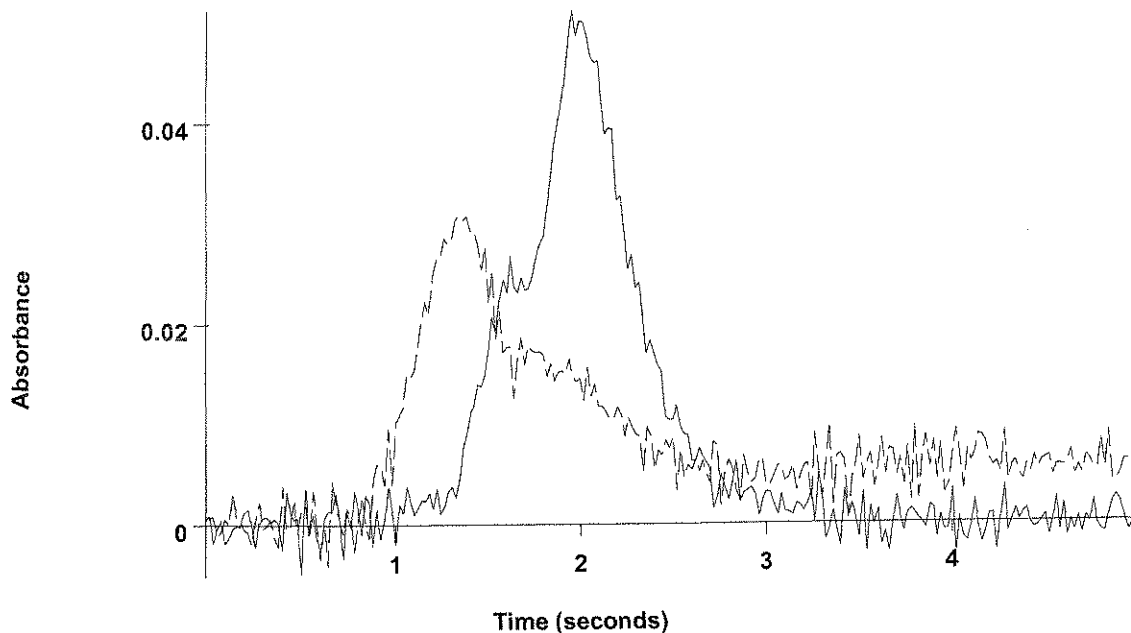
*Handwritten signature or initials*

=====  
 Element: Sb    Seq. No.: 261    AS Loc.: 26    Date: 06/25/2006  
 Sample ID: BF62207-blk1  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 26  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.7	19.7	0.0363	0.0369	0.0512	0.0404	0.0309	10:47:58	Yes



Sb



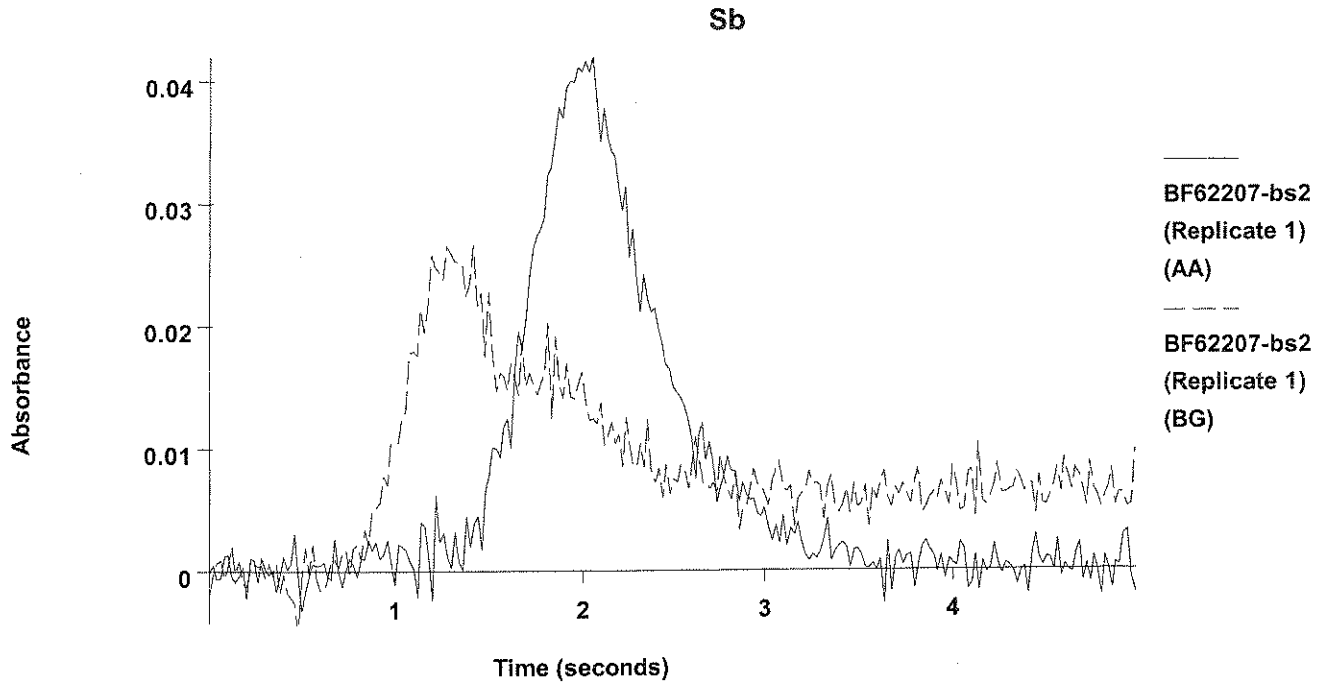
BF62207-blk1  
(Replicate 1)  
(AA)  
BF62207-blk1  
(Replicate 1)  
(BG)

2	19.7	19.7	0.0363	0.0368	0.0488	0.0363	0.0291	10:50:54	Yes
Mean:	19.7	19.7	0.0363						
SD :	0.01	0.01	0.0000						
%RSD:	0.08	0.08	0.08						

Recovery for Sb = 98.4 % within 85 % to 115 %

=====  
 Element: Sb    Seq. No.: 262    AS Loc.: 27    Date: 06/25/2006  
 Sample ID: BF62207-bs2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 27  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	18.5	18.5	0.0340	0.0346	0.0420	0.0411	0.0266	10:53:43	Yes

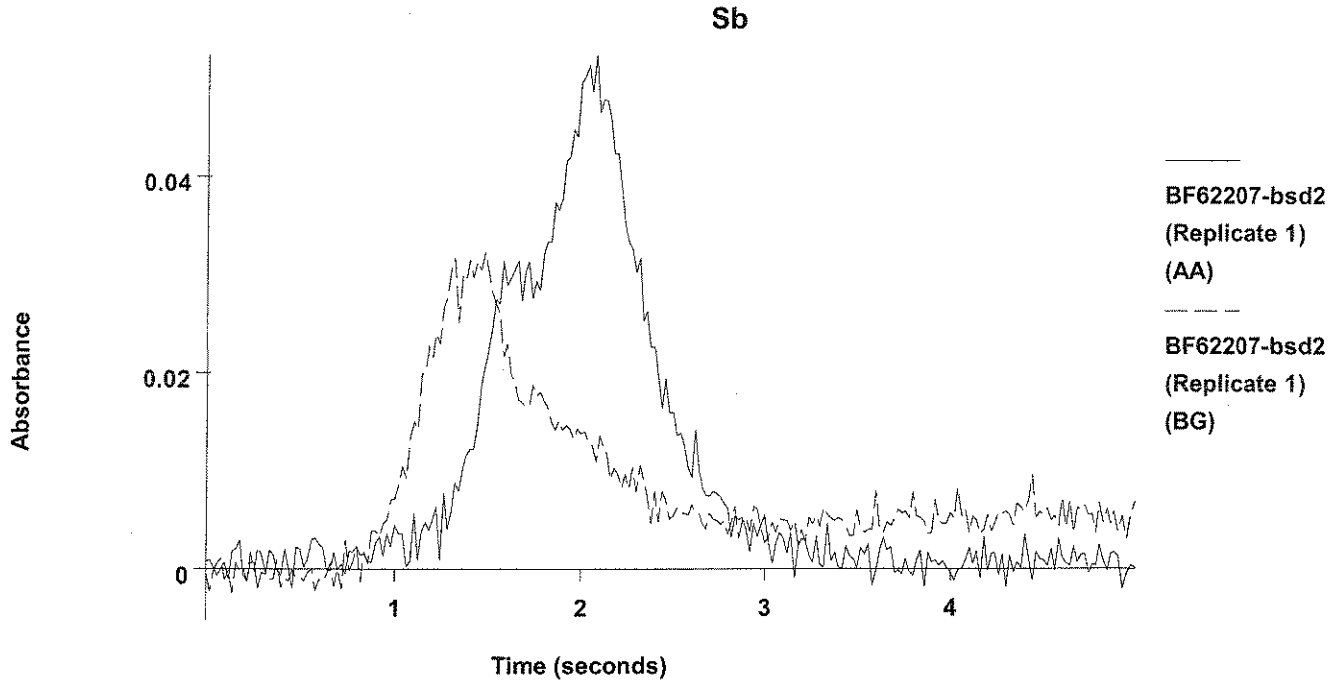


2	18.1	18.1	0.0334	0.0340	0.0417	0.0390	0.0283	10:56:33	Yes
Mean:	18.3	18.3	0.0337						
SD :	0.23	0.23	0.0004						
%RSD:	1.28	1.28	1.30						

92%

=====  
 Element: Sb    Seq. No.: 263    AS Loc.: 28    Date: 06/25/2006  
 Sample ID: BF62207-bsd2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 28  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.9	23.9	0.0441	0.0447	0.0524	0.0386	0.0323	10:59:22	Yes



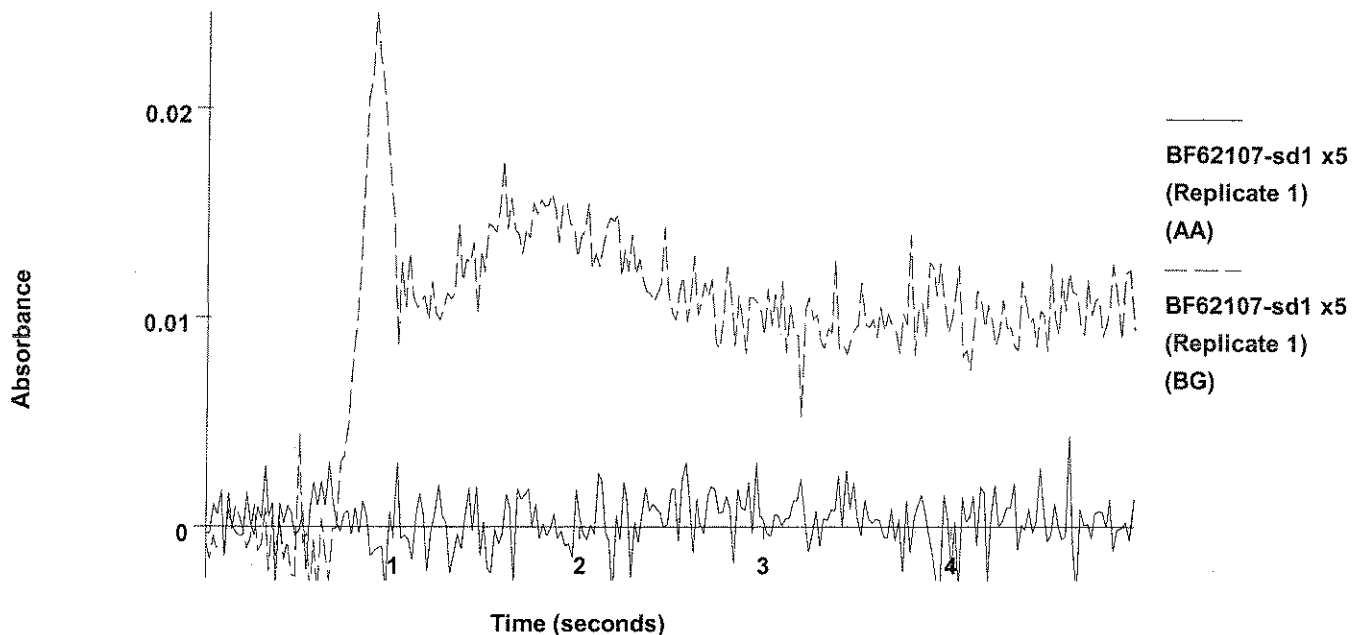
2	24.1	24.1	0.0445	0.0451	0.0560	0.0406	0.0341	11:02:11	Yes
Mean:	24.0	24.0	0.0443						
SD :	0.15	0.15	0.0003						
%RSD:	0.64	0.64	0.65						

*120%*

=====  
 Element: Sb    Seq. No.: 264    AS Loc.: 29    Date: 06/25/2006  
 Sample ID: BF62107-blk1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 29  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	0.0006	0.0012	0.0043	0.0338	0.0277	11:05:01	Yes

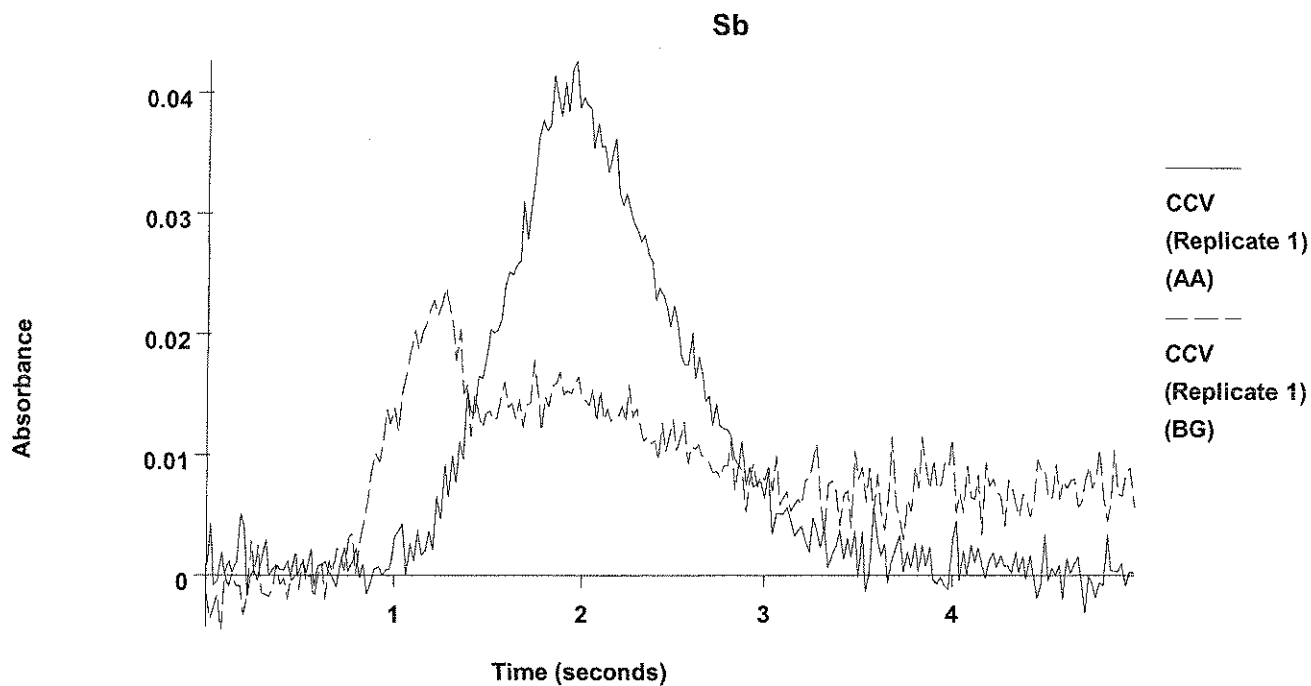
Sb



2	-0.5	-0.5	-0.0013	-0.0007	0.0049	0.0562	0.0264	11:53:40	Yes
Mean:	0.1	0.1	-0.0002		<i>W</i>				
SD :	0.83	0.83	0.0015						
%RSD:	715	715	724.61						

=====  
 Element: Sb    Seq. No.: 273    AS Loc.: 126    Date: 06/25/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.4	24.4	0.0452	0.0457	0.0427	0.0433	0.0239	11:56:32	Yes



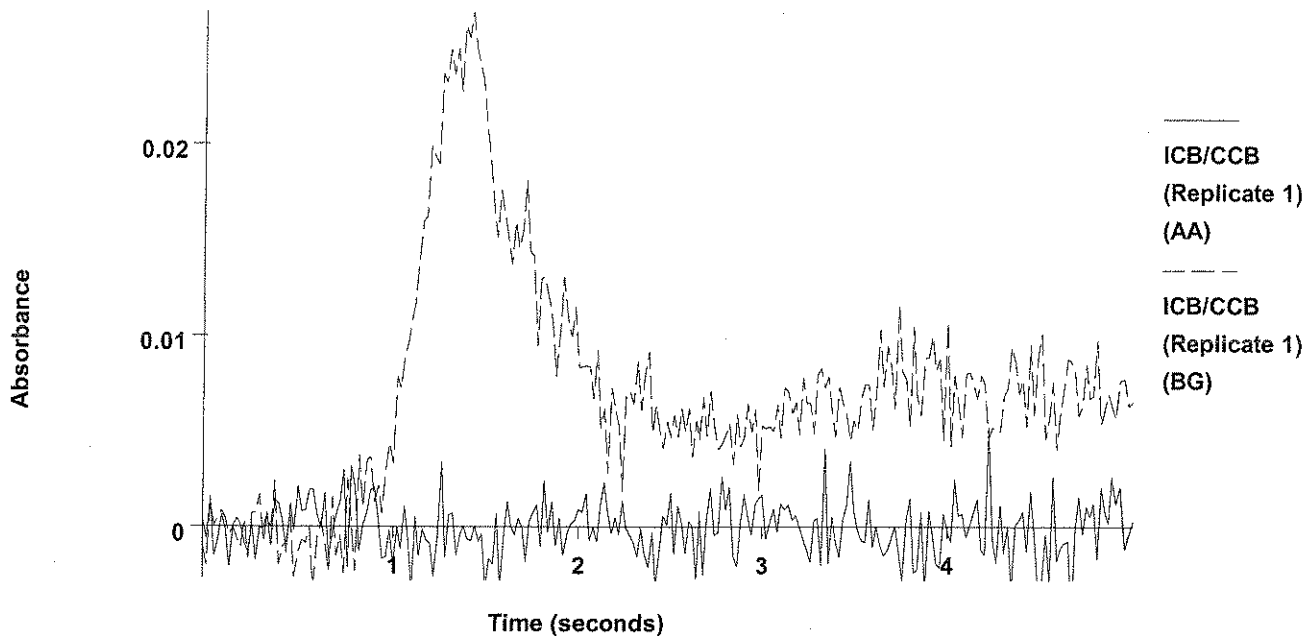
2	24.3	24.3	0.0449	0.0455	0.0406	0.0459	0.0266	11:59:25	Yes
Mean:	24.4	24.4	0.0450						
SD :	0.11	0.11	0.0002						
%RSD:	0.43	0.43	0.44						

QC value within specified limits.

=====  
 Element: Sb    Seq. No.: 274    AS Loc.: 148    Date: 06/25/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0010	-0.0004	0.0052	0.0360	0.0269	12:02:17	Yes

Sb

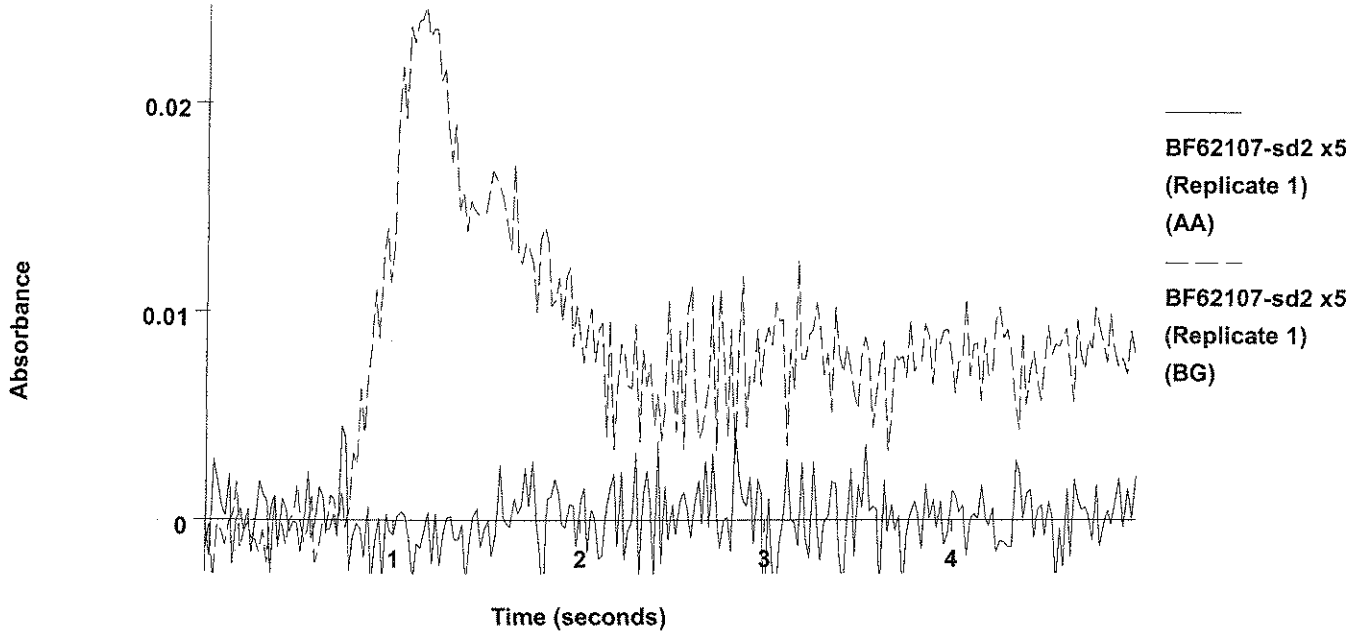


2            0.2            0.2            0.0000       0.0006       0.0061       0.0357       0.0312 12:05:07 Yes  
 Mean:       0.0            0.0            -0.0005  
 SD :         0.38           0.38           0.0007  
 %RSD:       978            978            140.74  
 QC value within specified limits.

=====  
 Element: Sb    Seq. No.: 275       AS Loc.: 38    Date: 06/25/2006  
 Sample ID: 0606321-02dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 38  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0012	-0.0006	0.0038	0.0628	0.0565	12:07:56	Yes

Sb

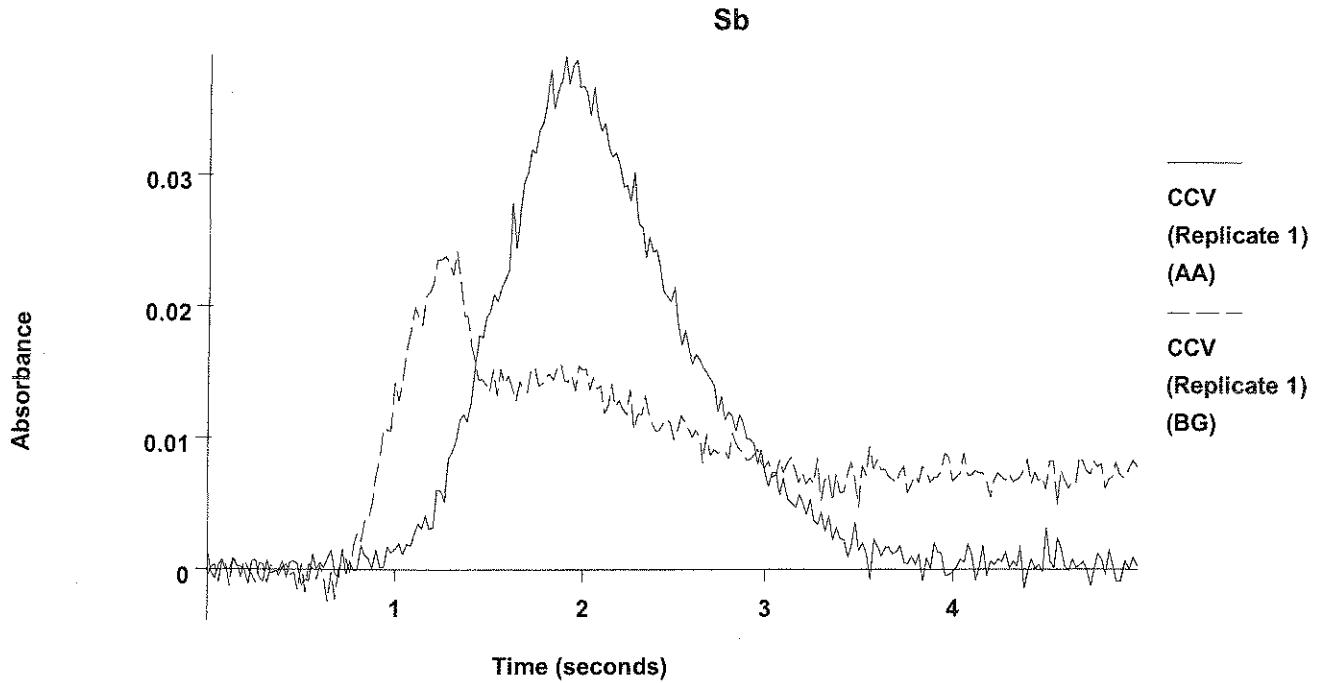


2	0.1	0.1	-0.0002	0.0004	0.0022	0.0446	0.0268	01:07:49	Yes
Mean:	0.1	0.1	-0.0002						
SD :	0.02	0.02	0.0000						
%RSD:	17.1	17.1	23.34						

*W*

=====  
 Element: Sb    Seq. No.: 286    AS Loc.: 126    Date: 06/25/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.5	23.5	0.0433	0.0439	0.0390	0.0434	0.0242	01:10:40	Yes



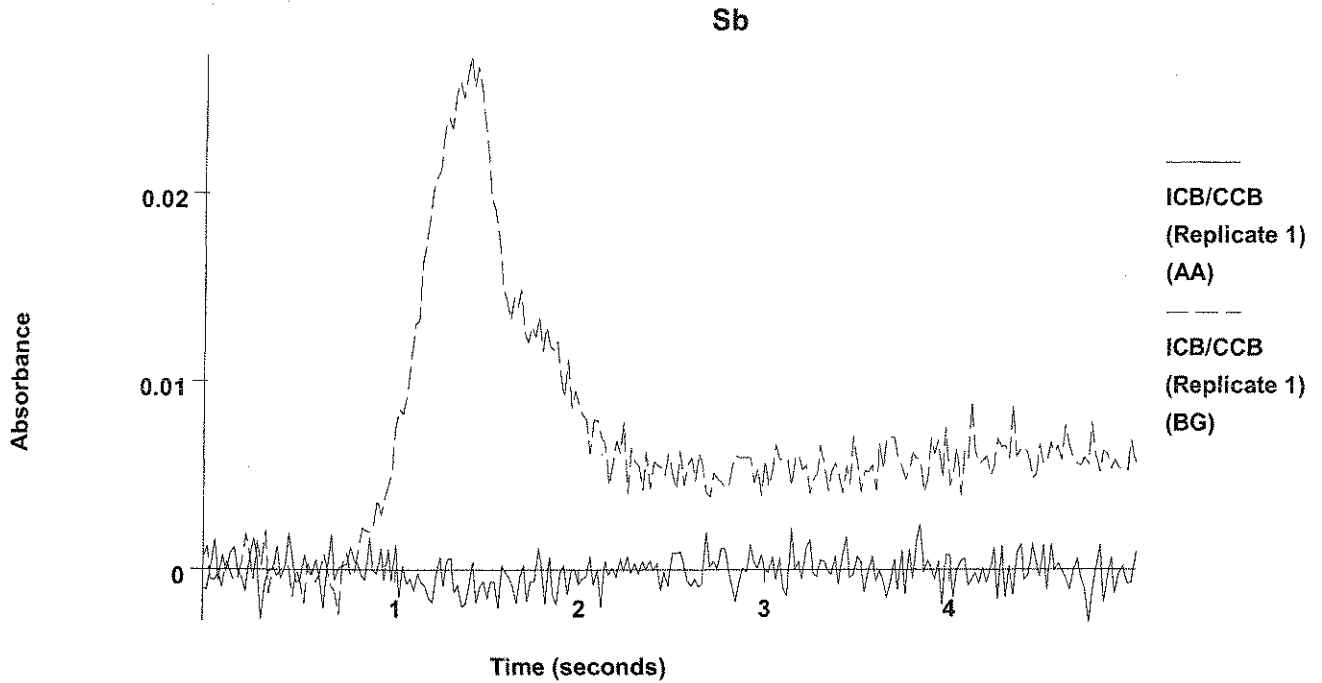
2	24.5	24.5	0.0452	0.0458	0.0379	0.0452	0.0248	01:13:33	Yes
Mean:	24.0	24.0	0.0443						
SD :	0.72	0.72	0.0013						
%RSD:	2.99	2.99	3.02						

QC value within specified limits.

=====  
 Element: Sb    Seq. No.: 287    AS Loc.: 148    Date: 06/25/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0011	-0.0006	0.0024	0.0344	0.0273	01:16:23	Yes



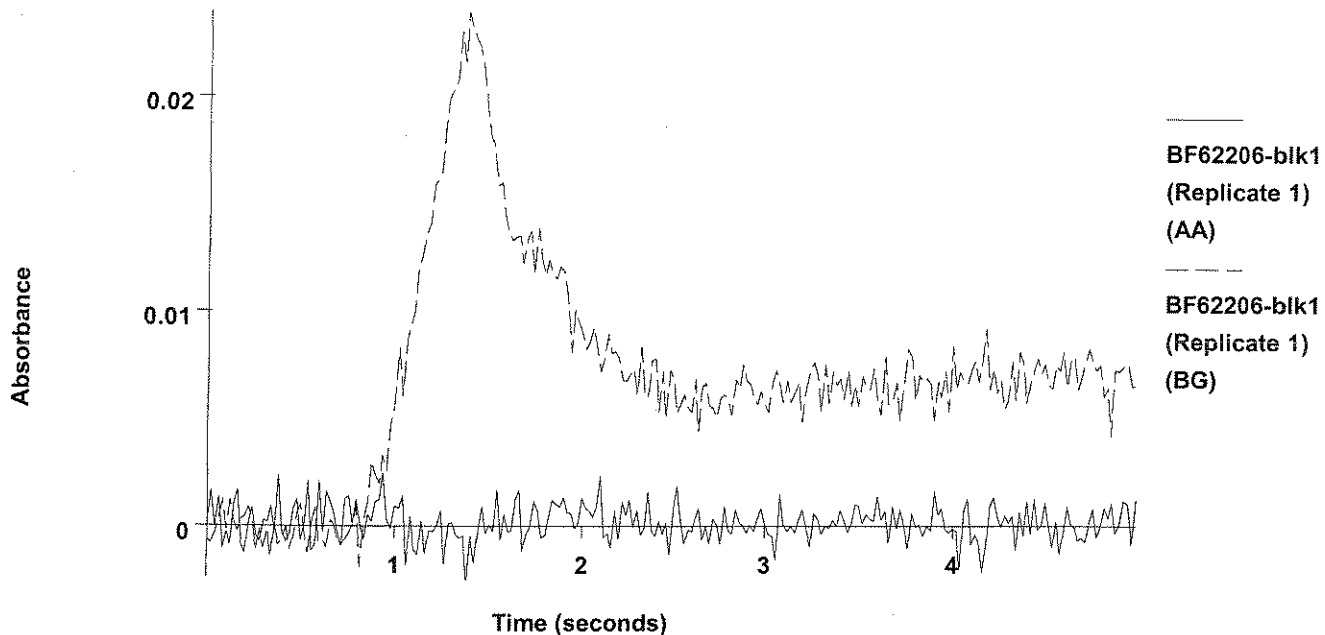


2            0.1        0.1    -0.0003   0.0003   0.0025   0.0374   0.0286 01:19:12 Yes  
 Mean:       -0.1       -0.1    -0.0007  
 SD :        0.32       0.32    0.0006  
 %RSD:       223        223     86.24  
 QC value within specified limits.

=====  
 Element: Sb    Seq. No.: 288    AS Loc.: 122    Date: 06/25/2006  
 Sample ID: BF62206-blk1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 122  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.3	0.3	0.0002	0.0008	0.0024	0.0350	0.0239	01:22:01	Yes

Sb



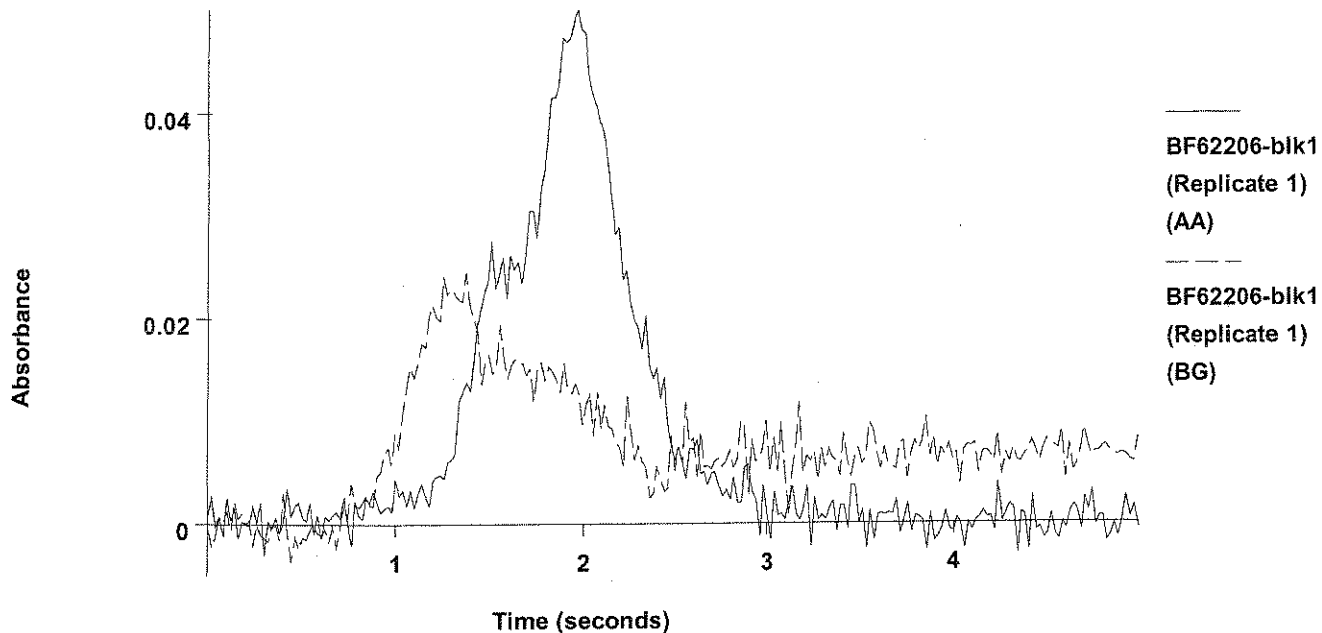
2	0.1	0.1	-0.0003	0.0003	0.0039	0.0347	0.0243	01:24:52	Yes
Mean:	0.2	0.2	0.0000						
SD :	0.20	0.20	0.0004						
%RSD:	94.3	94.3	944.27						

*W*

=====  
 Element: Sb    Seq. No.: 289    AS Loc.: 122    Date: 06/25/2006  
 Sample ID: BF62206-blk1  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 122  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.2	20.2	0.0372	0.0377	0.0502	0.0379	0.0245	01:27:53	Yes

Sb

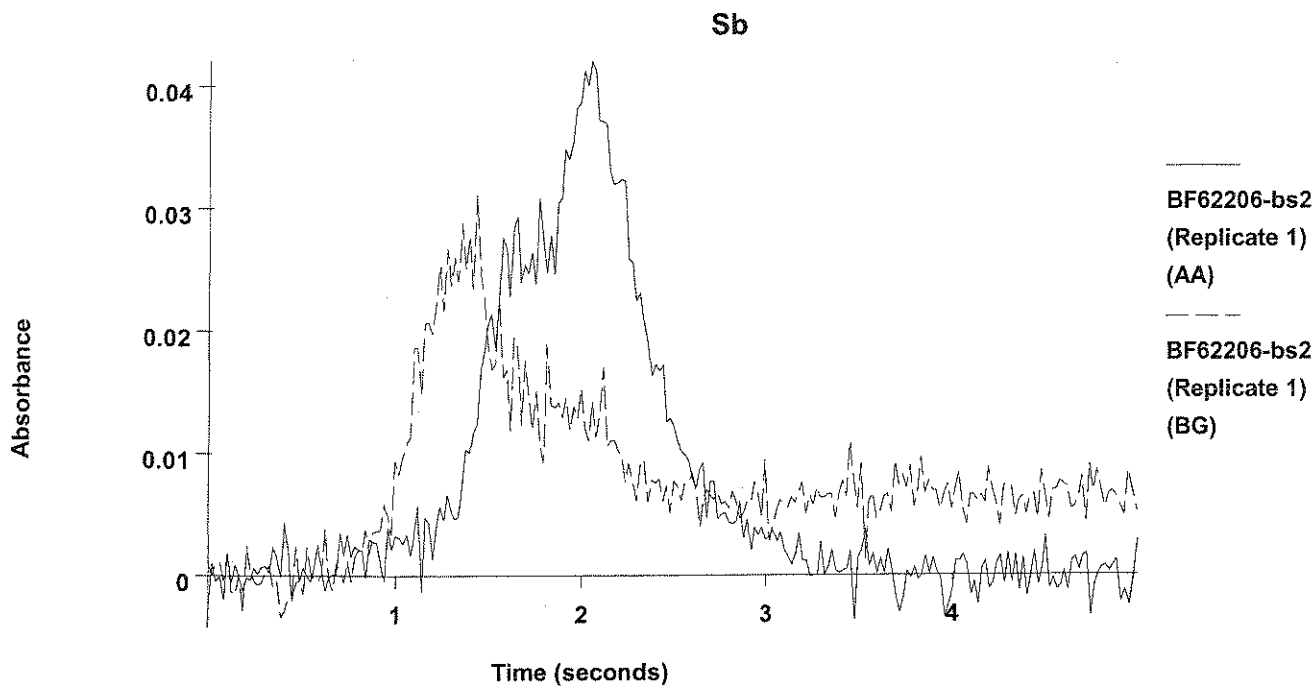


2	20.1	20.1	0.0371	0.0376	0.0513	0.0386	0.0218	01:30:54	Yes
Mean:	20.1	20.1	0.0371						
SD :	0.04	0.04	0.0001						
%RSD:	0.20	0.20	0.21						

Recovery for Sb = 100.6 % within 85 % to 115 %

=====  
 Element: Sb    Seq. No.: 290    AS Loc.: 123    Date: 06/25/2006  
 Sample ID: BF62206-bs2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 123  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.1	19.1	0.0352	0.0358	0.0421	0.0397	0.0312	01:33:46	Yes



2	19.0	19.0	0.0351	0.0357	0.0393	0.0357	0.0268	01:36:38	Yes
Mean:	19.1	19.1	0.0351						
SD :	0.03	0.03	0.0001						
%RSD:	0.15	0.15	0.15						

*96%*

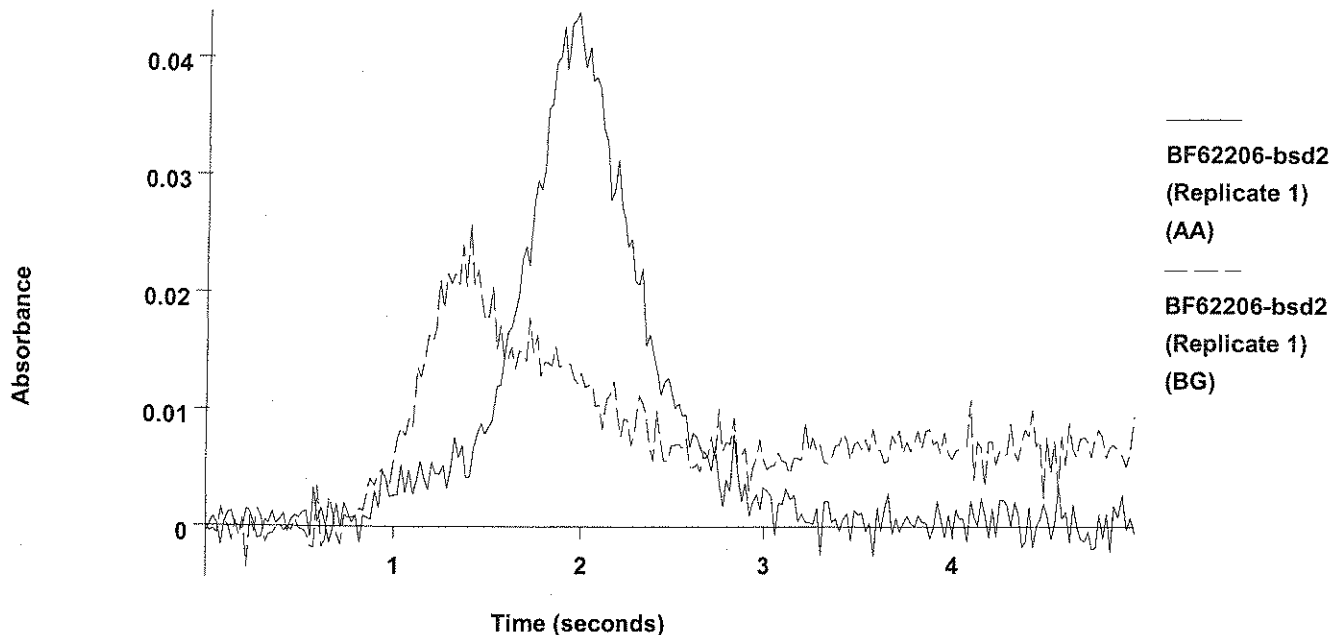
=====  
 Element: Sb    Seq. No.: 291    AS Loc.: 125    Date: 06/25/2006

Sample ID: BF62206-bsd2

µL dispensed: 10 from 148, 5 from 147, 15 from 125

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	18.1	18.1	0.0334	0.0339	0.0439	0.0377	0.0258	01:39:30	Yes

**Sb**



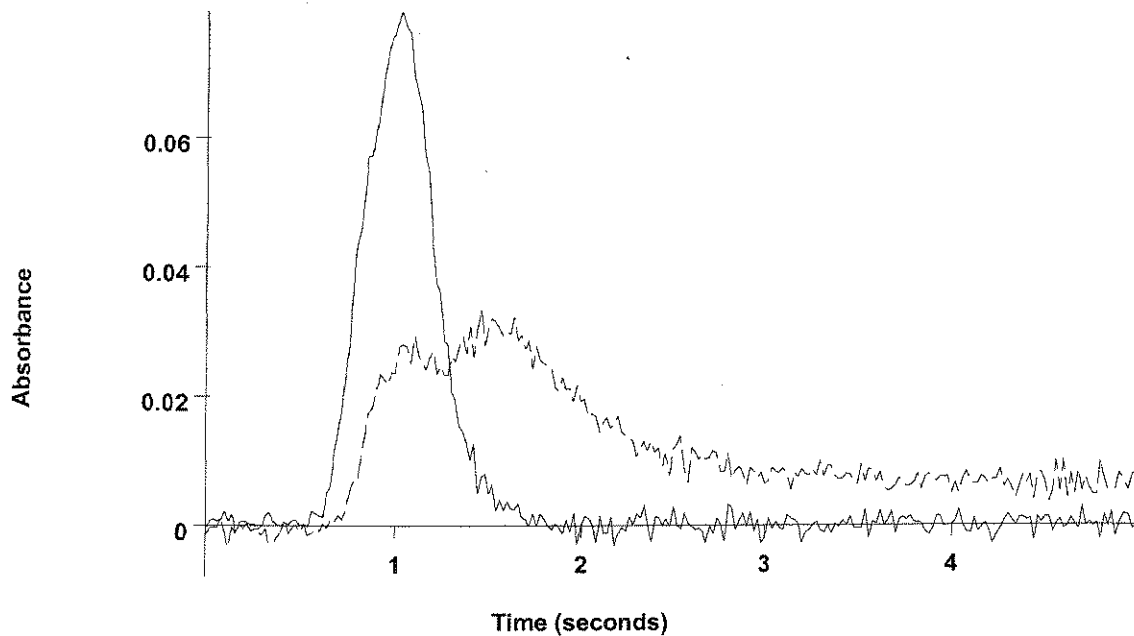
2	17.8	17.8	0.0329	0.0334	0.0401	0.0349	0.0305	01:42:23	Yes
Mean:	18.0	18.0	0.0331						
SD :	0.20	0.20	0.0004						
%RSD:	1.11	1.11	1.13						

*90%*

=====  
 Element: Sb    Seq. No.: 292    AS Loc.: 127    Date: 06/25/2006  
 Sample ID: 0606341-01dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 127

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.7	2.7	0.0046	0.0051	0.0084	0.0704	0.0516	01:45:16	Yes

Sb



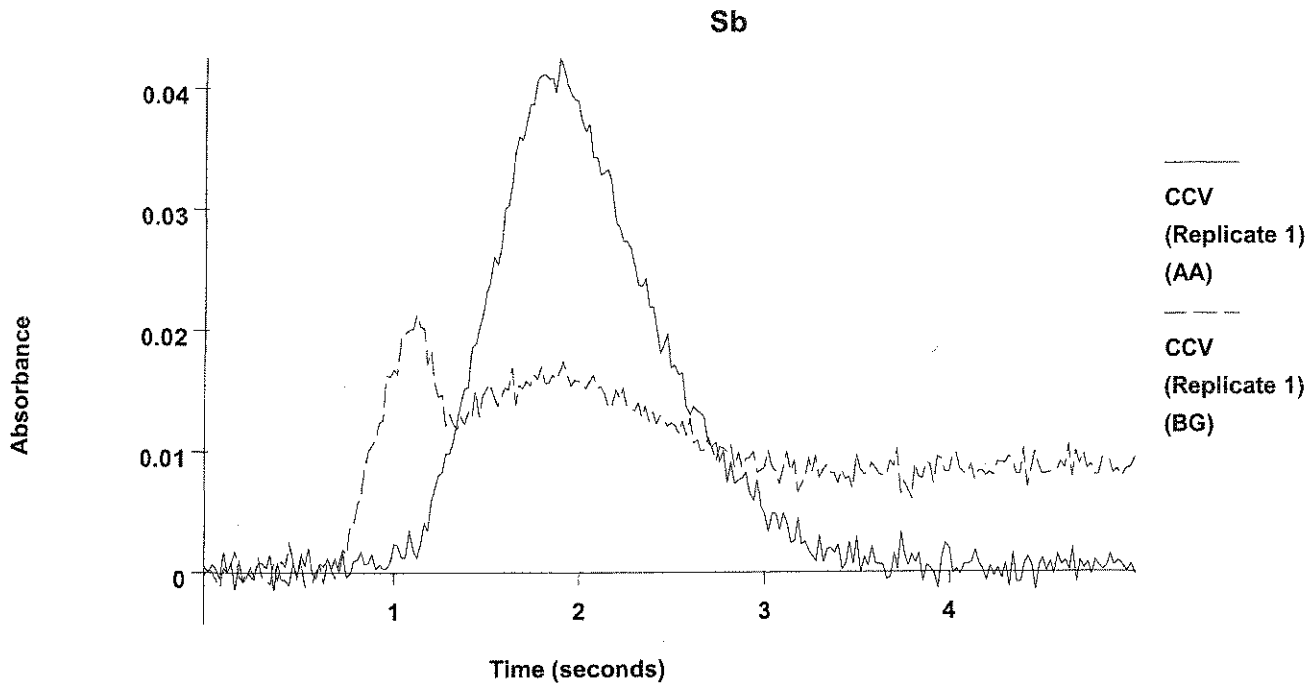
0606341-03  
(Replicate 1)  
(AA)  
0606341-03  
(Replicate 1)  
(BG)

2	19.8	19.8	0.0366	0.0372	0.0795	0.0573	0.0315	02:22:23	Yes
Mean:	19.6	19.6	0.0362						
SD :	0.30	0.30	0.0006						
%RSD:	1.55	1.55	1.57						

Recovery for Sb = 98.1 % within 85 % to 115 %

=====  
 Element: Sb    Seq. No.: 299    AS Loc.: 126    Date: 06/25/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.6	23.6	0.0437	0.0442	0.0425	0.0476	0.0214	02:25:15	Yes



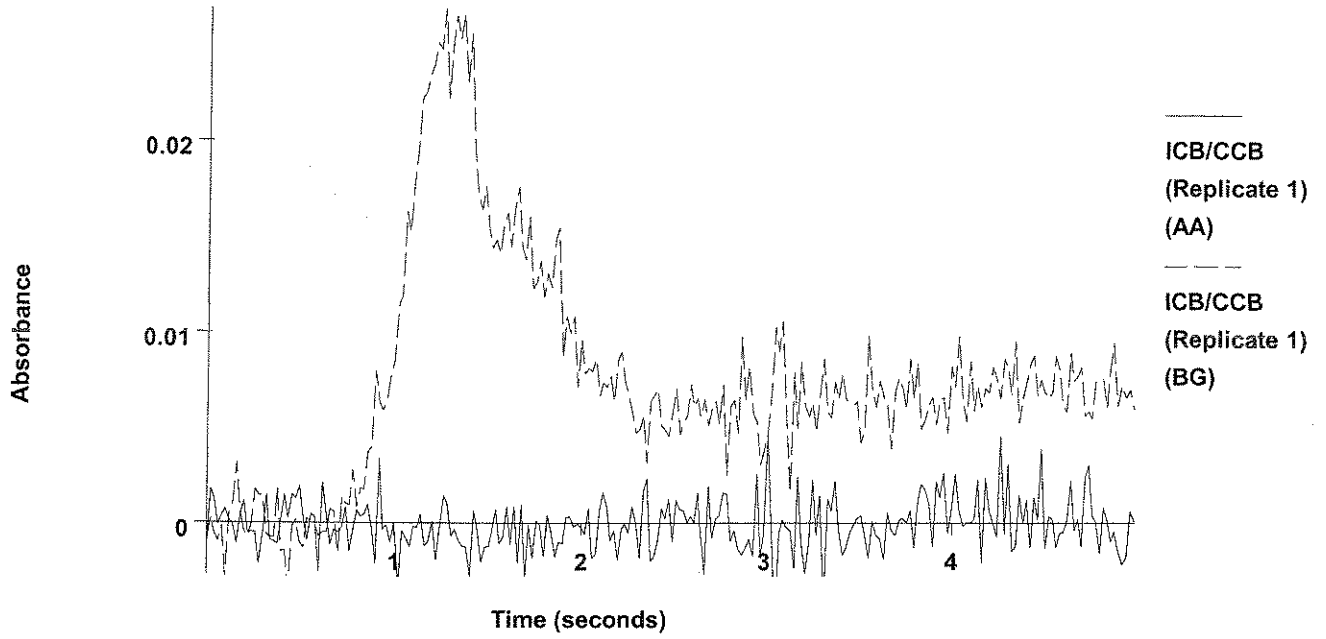
2	23.4	23.4	0.0433	0.0438	0.0394	0.0433	0.0177	02:28:08	Yes
Mean:	23.5	23.5	0.0435						
SD :	0.15	0.15	0.0003						
%RSD:	0.64	0.64	0.65						

QC value within specified limits.

=====  
 Element: Sb    Seq. No.: 300    AS Loc.: 148    Date: 06/25/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0010	-0.0005	0.0047	0.0380	0.0269	02:30:58	Yes

Sb



2	-0.3	-0.3	-0.0010	-0.0005	0.0038	0.0381	0.0250	02:33:48	Yes
Mean:	-0.3	-0.3	-0.0010						
SD :	0.01	0.01	0.0000						
%RSD:	1.68	1.68	0.99						

QC value within specified limits.



## ANALYSIS SEQUENCE

BPG0211

Instrument: HG1

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0211-CAL1	QC		1		6F23024		
BPG0211-CAL2	QC		2		6F23025		
BPG0211-CAL3	QC		3		6F23026		
BPG0211-CAL4	QC		4		6F23027		
BPG0211-CAL5	QC		5		6F23028		
BPG0211-CAL6	QC		6		6F23029		
BPG0211-ICV1	QC		7		6F23028		
BPG0211-SCV1	QC		8		6F23030		
BPG0211-ICB1	QC		9				
BF62211-BLK1	QC		10				
BF62211-BS1	QC		11				
BPG0211-CCB1	QC		12				
BPG0211-CCV1	QC		13		6F23028		
BF62211-BSD1	QC		14				
BF62211-DUP1	QC		15				
BF62211-MS1	QC		16				
BF62211-MSD1	QC		17				
BF62211-MSD2	QC		18				
BF62211-MS2	QC		19				
BF62211-DUP2	QC		20				
BF62211-PS1	QC		21				
BF62211-PS2	QC		22				
0606346-15	Hg: ppm Mercury 7470	B	23				MACTEC Engineering & Consulting, In
0606346-15	Hg: ppm Diss Mercury 7470	B	23				MACTEC Engineering & Consulting, In
BPG0211-CCB2	QC		24				
BPG0211-CCV2	QC		25		6F23028		
0606346-14	Hg: ppm Mercury 7470	B	26				MACTEC Engineering & Consulting, In
0606346-14	Hg: ppm Diss Mercury 7470	B	26				MACTEC Engineering & Consulting, In
0606346-13	Hg: ppm Diss Mercury 7470	B	27				MACTEC Engineering & Consulting, In
0606346-13	Hg: ppm Mercury 7470	B	27				MACTEC Engineering & Consulting, In
0606346-11	Hg: ppm Mercury 7470	B	28				MACTEC Engineering & Consulting, In
0606346-11	Hg: ppm Diss Mercury 7470	B	28				MACTEC Engineering & Consulting, In
0606346-10	Hg: ppm Mercury 7470	A	29				MACTEC Engineering & Consulting, In

Samples Loaded By

Date

560  
Data Processed By

Date

## ANALYSIS SEQUENCE

BPG0211

Instrument: HG1

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606346-10	Hg: ppm Diss Mercury 7470	A	29				MACTEC Engineering & Consulting, Inc
0606346-09	Hg: ppm Diss Mercury 7470	A	30				MACTEC Engineering & Consulting, Inc
0606346-09	Hg: ppm Mercury 7470	A	30				MACTEC Engineering & Consulting, Inc
0606346-08	Hg: ppm Diss Mercury 7470	A	31				MACTEC Engineering & Consulting, Inc
0606346-08	Hg: ppm Mercury 7470	A	31				MACTEC Engineering & Consulting, Inc
0606346-07	Hg: ppm Mercury 7470	A	32				MACTEC Engineering & Consulting, Inc
0606346-07	Hg: ppm Diss Mercury 7470	A	32				MACTEC Engineering & Consulting, Inc
0606346-06	Hg: ppm Mercury 7470	A	33				MACTEC Engineering & Consulting, Inc
0606346-06	Hg: ppm Diss Mercury 7470	A	33				MACTEC Engineering & Consulting, Inc
0606346-05	Hg: ppm Mercury 7470	A	34				MACTEC Engineering & Consulting, Inc
0606346-05	Hg: ppm Diss Mercury 7470	A	34				MACTEC Engineering & Consulting, Inc
0606346-03	Hg: ppm Diss Mercury 7470	A	35				MACTEC Engineering & Consulting, Inc
0606346-03	Hg: ppm Mercury 7470	A	35				MACTEC Engineering & Consulting, Inc
BPG0211-CCB3	QC		36				
BPG0211-CCV3	QC		37		6F23028		
0606346-02	Hg: ppm Mercury 7470	A	38				MACTEC Engineering & Consulting, Inc
0606346-02	Hg: ppm Diss Mercury 7470	A	38				MACTEC Engineering & Consulting, Inc
0606346-01	Hg: ppm Diss Mercury 7470	A	39				MACTEC Engineering & Consulting, Inc
0606346-01	Hg: ppm Mercury 7470	A	39				MACTEC Engineering & Consulting, Inc
BF62210-BLK1	QC		40				
BF62210-BS1	QC		41				
BF62210-BSD1	QC		42				
BF62210-DUP2	QC		43				
BF62210-MS2	QC		44				
BF62210-MSD2	QC		45				
BF62210-PS2	QC		46				
BF62303-BLK1	QC		47				
BPG0211-CCB4	QC		48				
BPG0211-CCV4	QC		49		6F23028		
BF62303-BS1	QC		50				
BF62303-BSD1	QC		51				
0606372-03	Hg: ppm Diss Mercury 7470	A	52				MACTEC Engineering & Consulting, Inc
0606372-03	Hg: ppm Mercury 7470	A	52				MACTEC Engineering & Consulting, Inc

Samples Loaded By

Date

Data Processed By

Date

## ANALYSIS SEQUENCE

BPG0211

Instrument: HG1

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606372-02	Hg: ppm Mercury 7470	A	53				MACTEC Engineering & Consulting, Inc
0606372-02	Hg: ppm Diss Mercury 7470	A	53				MACTEC Engineering & Consulting, Inc
0606372-01	Hg: ppm Mercury 7470	A	54				MACTEC Engineering & Consulting, Inc
0606372-01	Hg: ppm Diss Mercury 7470	A	54				MACTEC Engineering & Consulting, Inc
BPG0211-SRD1	QC		55				
BPG0211-SRD2	QC		56				
BPG0211-SRD3	QC		57				
BPG0211-CCB5	QC		58				
BPG0211-CCV5	QC		59		6F23028		

Samples Loaded By

Date

Data Processed By

Date

**ESS LABORATORY**  
**Data Review Check List for Mercury**

**Data Review Check List for Mercury**

<b>Project Number(s):</b> 06316-01, 334, 341 tot/d/s, 346 tot/d/s, 310T		<b>Run Date:</b> 6/23/06	
<b>Batch Number (s):</b> 062306A		313 T, 317 T	
<b>SOP Number: 30 2451 or 30 7471A</b>			
Review Item	Yes (X)	No (X)	N/A (X)
1. Does the daily standard curve consist of a Calibration Blank and the required 5 Calibration Standards?	X		
2. Is the CCV standard analyzed immediately after the curve? Does this CCV meet QC limits ( $\pm 5\%$ for 245.1 and $\pm 10\%$ for 7470/1A.)	X		
3. Is the ICV from a second source and is its percent recovery within QC limits ( $\pm 10\%$ )?	X		
4. Is the method blank run at the required frequency (1 per batch) and not exceed the MRL?	X		
5. Is the LCS from a source separate from the calibration standards and is its percent recovery within QC limits ( $\pm 15\%$ for 245.1 and $\pm 20\%$ for 7470/1A)?	X		
6. Are Matrix Spikes run at the required frequency (1 per ten samples or per analytical batch)? Is the percent recovery for Matrix Spikes within 75-125% (80-120% for USACE/Navy)?	X		
7. Are Duplicates run the required frequency (1 per ten samples or per analytical batch)? Is the relative percent difference within QC limits ( $\leq 20\%$ for aqueous and $\leq 35\%$ for soil/sediments ( $\leq 20\%$ for USACE))?	X		
8. Is the CCV standard (STD3) also analyzed after every tenth sample and at the end of the sample run? Does this CCV meet QC limits ( $\pm 10\%$ )	X		
9. Are all the samples with concentrations greater than the highest standard used for initial calibration reprocessed and reanalyzed?			X
10. Has the serial dilution been analyzed at the required frequency (once per analytical batch) and are results within criterion ( $\pm 10\%$ RPD)?	X		
11. Has the post dilution spike been analyzed at the required frequency (once per analytical batch) and are results within criterion (85-115%)?	X		
12. Are all sample holding times met?	X		
13. Are all non-conformances included and noted?	X		
14. Are all sample IDs and units checked for transcription errors?	X		

Comments on any "No" response:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Analyst: Erin E. Minot Date: 6/23/06

Second Level Review: EP Date: 6/24/06

Control Number: 30.0012-0602A (R. 1 8/2000) Page \_\_\_\_\_

## Autosampler Loading List

Sample Information File: 062306A.SIF

Methods: Hg\_5ppb Aq

Location	Elements	Solution
0	Hg	Wash Solution
1	Hg	Calib Blank
	Hg	ICCB: 0.0000 µg/L
2	Hg	Standard 0.25: 0.25 µg/L
3	Hg	Standard 0.5: 0.5 µg/L
4	Hg	Standard 1.0: 1.0 µg/L
5	Hg	Standard 3.0: 3.0 µg/L
	Hg	Standard 3.0: 3.0000 µg/L
	Hg	CCV: 3.0000 µg/L
6	Hg	Standard 5.0: 5.0 µg/L
7	Hg	ICV: 3.0000 µg/L
9	Hg	Sample: bf62210-blk1
10	Hg	Sample: bf62210-bs1
11	Hg	Sample: bf62210-bsd1
12	Hg	Sample: 0606316-01
13	Hg	Sample: 0606334-01
14	Hg	Sample: 0606334-02
15	Hg	Sample: 0606334-03
16	Hg	Sample: 0606341-01 dis
17	Hg	Sample: 0606341-02 dis
18	Hg	Sample: 0606341-03 dis
19	Hg	Sample: 0606341-01
20	Hg	Sample: 0606341-02
21	Hg	Sample: 0606341-03
22	Hg	Sample: bf62210-dup1
23	Hg	Sample: bf62210-ms1
24	Hg	Sample: bf62210-msd1
25	Hg	Sample: bf62210-sd1 x5
26	Hg	Sample: bf62210-pds1
27	Hg	Sample: 0606346-01
28	Hg	Sample: 0606346-02
29	Hg	Sample: 0606346-03
30	Hg	Sample: 0606346-04
31	Hg	Sample: 0606346-05
32	Hg	Sample: 0606346-06
33	Hg	Sample: 0606346-07
34	Hg	Sample: 0606346-08
35	Hg	Sample: 0606346-09
36	Hg	Sample: 0606346-10
37	Hg	Sample: bf62210-dup2
38	Hg	Sample: bf62210-ms2
39	Hg	Sample: bf62210-msd2
40	Hg	Sample: bf62210-sd2 x5
41	Hg	Sample: bf62210-pds2
42	Hg	Sample: bf62211-blk1
43	Hg	Sample: bf62211-bs1
44	Hg	Sample: bf62211-bsd1
45	Hg	Sample: 0606346-11
46	Hg	Sample: 0606346-12
47	Hg	Sample: 0606346-13
48	Hg	Sample: 0606346-14
49	Hg	Sample: 0606346-15
50	Hg	Sample: 0606346-01 dis
51	Hg	Sample: 0606346-02 dis
52	Hg	Sample: 0606346-03 dis
53	Hg	Sample: 0606346-04 dis

54	Hg	Sample: 0606346-05 dis
55	Hg	Sample: bf62211-dup1
56	Hg	Sample: bf62211-ms1
57	Hg	Sample: bf62211-msd1
58	Hg	Sample: bf62211-sd1 x5
59	Hg	Sample: bf62211-pds1
60	Hg	Sample: 0606346-06 dis
61	Hg	Sample: 0606346-07 dis
62	Hg	Sample: 0606346-08 dis
63	Hg	Sample: 0606346-09 dis
64	Hg	Sample: 0606346-10 dis
65	Hg	Sample: 0606346-11 dis
66	Hg	Sample: 0606346-12 dis
67	Hg	Sample: 0606346-13 dis
68	Hg	Sample: 0606346-14 dis
69	Hg	Sample: 0606346-15 dis
70	Hg	Sample: bf62211-dup2
71	Hg	Sample: bf62211-ms2
72	Hg	Sample: bf62211-msd2
73	Hg	Sample: bf62211-sd2 x5
74	Hg	Sample: bf62211-pds2
75	Hg	Sample: bf62215-blk1
76	Hg	Sample: bf62215-bs1
77	Hg	Sample: bf62215-bsd1
78	Hg	Sample: 0606310-01 tclp
79	Hg	Sample: 0606310-02 tclp
80	Hg	Sample: 0606310-03 tclp
81	Hg	Sample: 0606310-04 tclp
82	Hg	Sample: 0606310-05 tclp
83	Hg	Sample: 0606310-06 tclp
84	Hg	Sample: 0606310-07 tclp
85	Hg	Sample: bf62215-dup1
86	Hg	Sample: bf62215-ms1
87	Hg	Sample: bf62215-msd1
88	Hg	Sample: bf62215-sd1 x5
89	Hg	Sample: bf62215-pds1
90	Hg	Sample: bf62215-blk2
91	Hg	Sample: 0606313-01 tclp
92	Hg	Sample: bf62215-blk3
93	Hg	Sample: 0606317-01 tclp
94	Hg	Sample: 0606317-02 tclp
95	Hg	Sample: bf62215-dup2
96	Hg	Sample: bf62215-ms2
97	Hg	Sample: bf62215-msd2
98	Hg	Sample: bf62215-sd2 x5
99	Hg	Sample: bf62215-pds2
100	Hg	Sample: 0606317-03 tclp

%RSD: 8.9525  
 [Hg] Standard number 3 applied. [1.00]  
 Correlation Coefficient: 0.99886 Slope: 0.03487

=====  
 Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 06/23/2006  
 Sample ID: Standard 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0811	0.4187	0.0838	10:55:22	No
2			0.0790	0.4133	0.0817	10:55:59	No
Mean:			0.0801				
SD :			0.0015				
%RSD:			1.9049				

=====  
 Method Name: Hg\_5ppb Aq  
 Method Description: Hg\_5ppb Aq  
 Element: Hg

Date: 06/23/2006  
 Technique: FI-MHS  
 Calibration Type:  
 Hg, Zero Intercept: Linear  
 Wavelength: 253.7 nm  
 Sample Info Name: 062306A.SIF Results Data Set Name: 062306ad

=====  
 Element: Hg Seq. No.: 6 AS Loc.: 1 Date: 06/23/2006  
 Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0027	0.0146	0.0027	10:57:56	No
2			0.0027	0.0148	0.0027	10:58:25	No
Mean:			0.0027				
SD :			0.0000				
%RSD:			0.1620				

Auto-zero performed.

=====  
 Element: Hg Seq. No.: 7 AS Loc.: 2 Date: 06/23/2006  
 Sample ID: Standard 0.25

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0077	0.0531	0.0104	10:59:48	No
2			0.0076	0.0531	0.0104	11:00:18	No
Mean:			0.0076				
SD :			0.0000				
%RSD:			0.3790				

[Hg] Standard number 1 applied. [0.25]  
 Correlation Coefficient: 1.00000 Slope: 0.03057

=====  
 Element: Hg Seq. No.: 8 AS Loc.: 3 Date: 06/23/2006  
 Sample ID: Standard 0.5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0140	0.0867	0.0167	11:01:42	No
2			0.0138	0.0837	0.0166	11:02:11	No
Mean:			0.0139				

SD : 0.0001  
 %RSD: 0.8237  
 [Hg] Standard number 2 applied. [0.50]  
 Correlation Coefficient: 0.99240 Slope: 0.02840

Element: Hg Seq. No.: 9 AS Loc.: 4 Date: 06/23/2006  
 Sample ID: Standard 1.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0259	0.1443	0.0287	11:03:38	No
2			0.0258	0.1422	0.0285	11:04:07	No
Mean:			0.0259				
SD :			0.0001				
%RSD:			0.4199				

[Hg] Standard number 3 applied. [1.00]  
 Correlation Coefficient: 0.99545 Slope: 0.02652

Element: Hg Seq. No.: 10 AS Loc.: 5 Date: 06/23/2006  
 Sample ID: Standard 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0800	0.4122	0.0827	11:05:34	No
2			0.0788	0.4086	0.0816	11:06:03	No
Mean:			0.0794				
SD :			0.0008				
%RSD:			0.9936				

[Hg] Standard number 4 applied. [3.00]  
 Correlation Coefficient: 0.99972 Slope: 0.02647

Element: Hg Seq. No.: 11 AS Loc.: 6 Date: 06/23/2006  
 Sample ID: Standard 5.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1270	0.6387	0.1297	11:07:31	No
2			0.1261	0.6339	0.1288	11:08:01	No
Mean:			0.1265				
SD :			0.0007				
%RSD:			0.5330				

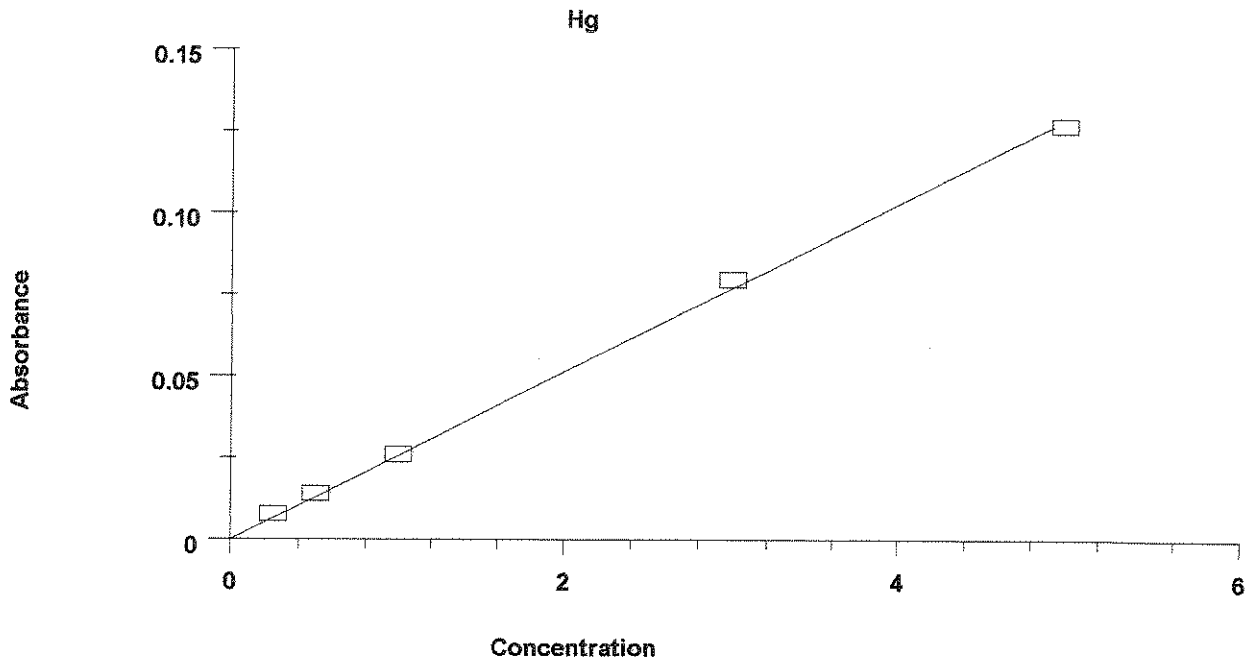
[Hg] Standard number 5 applied. [5.00]  
 Correlation Coefficient: 0.99946 Slope: 0.02566

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0027	---	---	---	---
Standard 0.25	0.0076	0.25	0.30	0.000	0.4
Standard 0.5	0.0139	0.50	0.54	0.000	0.8
Standard 1.0	0.0259	1.00	1.01	0.000	0.4
Standard 3.0	0.0794	3.00	3.09	0.001	1.0
Standard 5.0	0.1265	5.00	4.93	0.001	0.5
Correlation Coefficient:		0.99946	Slope: 0.02566	----	

*cal. goal*





=====  
 Element: Hg    Seq. No.: 12    AS Loc.: 5    Date: 06/23/2006  
 Sample ID: Standard 3.0  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.09	3.09	0.0793	0.4100	0.0820	11:09:30	No
2	3.09	3.09	0.0792	0.4088	0.0819	11:09:59	No
Mean:	3.09	3.09	0.0792				
SD :	0.002	0.002	0.0001				
%RSD:							

QC value within specified limits. ✓

=====  
 Element: Hg    Seq. No.: 13    AS Loc.: 7    Date: 06/23/2006  
 Sample ID: ICV  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.19	3.19	0.0818	0.4225	0.0845	11:11:26	No
2	3.18	3.18	0.0816	0.4136	0.0843	11:11:55	No
Mean:	3.18	3.18	0.0817				
SD :	0.005	0.005	0.0001				
%RSD:	0.2	0.2	0.1724				

QC value within specified limits. ✓

=====  
 Element: Hg    Seq. No.: 14    AS Loc.: 1    Date: 06/23/2006  
 Sample ID: ICCB  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	-0.0001	0.0142	0.0027	11:13:20	No
2	0.00	0.00	-0.0001	0.0143	0.0027	11:13:49	No

Mean: 0.00 0.00 -0.0001  
 SD : 0.000 0.000 0.0000  
 %RSD: 3.9 3.9 3.8987  
 QC value within specified limits. ✓

=====  
 Element: Hg Seq. No.: 15 AS Loc.: 9 Date: 06/23/2006  
 Sample ID: bf62210-blk1

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0001	0.0157	0.0028	11:15:12	No
2	0.00	0.00	0.0000	0.0141	0.0027	11:15:41	No
Mean:	0.00	0.00	0.0000				
SD :	0.004	0.004	0.0001				
%RSD:	317.2	317.2	317.2000				

*ND*

=====  
 Element: Hg Seq. No.: 16 AS Loc.: 10 Date: 06/23/2006  
 Sample ID: bf62210-bs1

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.95	2.95	0.0756	0.3925	0.0783	11:17:04	No
2	2.94	2.94	0.0755	0.3922	0.0782	11:17:33	No
Mean:	2.94	2.94	0.0755				
SD :	0.004	0.004	0.0001				
%RSD:	0.1	0.1	0.1418				

*98%*

=====  
 Element: Hg Seq. No.: 17 AS Loc.: 11 Date: 06/23/2006  
 Sample ID: bf62210-bsdl

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.93	2.93	0.0753	0.3906	0.0780	11:18:57	No
2	2.93	2.93	0.0751	0.3894	0.0779	11:19:26	No
Mean:	2.93	2.93	0.0752				
SD :	0.004	0.004	0.0001				
%RSD:	0.1	0.1	0.1396				

*98%*  
 $\frac{2.94 - 2.93}{2.935} \times 100 = 0.34\%$

=====  
 Element: Hg Seq. No.: 18 AS Loc.: 12 Date: 06/23/2006  
 Sample ID: 0606316-01

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.05	0.05	0.0014	0.0241	0.0041	11:20:51	No
2	0.05	0.05	0.0013	0.0230	0.0040	11:21:21	No
Mean:	0.05	0.05	0.0013				
SD :	0.003	0.003	0.0001				
%RSD:	6.0	6.0	6.0380				

*ND*

=====  
 Element: Hg Seq. No.: 19 AS Loc.: 13 Date: 06/23/2006  
 Sample ID: 0606334-01

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.12	0.12	0.0031	0.0340	0.0058	11:22:46	No
2	0.07	0.07	0.0018	0.0245	0.0045	11:23:16	No
Mean:	0.10	0.10	0.0024				
SD :	0.035	0.035	0.0009				

*ND*

%RSD: 36.8 36.8 36.8184

Element: Hg Seq. No.: 20 AS Loc.: 14 Date: 06/23/2006  
 Sample ID: 0606334-02

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.05	0.05	0.0012	0.0224	0.0039	11:24:43	No
2	0.04	0.04	0.0011	0.0210	0.0038	11:25:12	No
Mean:	0.04	0.04	0.0011				
SD :	0.004	0.004	0.0001				
%RSD:	8.2	8.2	8.2353				

Element: Hg Seq. No.: 21 AS Loc.: 15 Date: 06/23/2006  
 Sample ID: 0606334-03

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0006	0.0191	0.0033	11:26:40	No
2	0.01	0.01	0.0003	0.0161	0.0031	11:27:09	No
Mean:	0.02	0.02	0.0005				
SD :	0.007	0.007	0.0002				
%RSD:	38.7	38.7	38.6656				

Element: Hg Seq. No.: 22 AS Loc.: 16 Date: 06/23/2006  
 Sample ID: 0606341-01 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0006	0.0194	0.0034	11:28:37	No
2	0.02	0.02	0.0004	0.0168	0.0031	11:29:07	No
Mean:	0.02	0.02	0.0005				
SD :	0.006	0.006	0.0001				
%RSD:	28.5	28.5	28.5227				

Element: Hg Seq. No.: 23 AS Loc.: 17 Date: 06/23/2006  
 Sample ID: 0606341-02 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	-0.0001	0.0136	0.0026	11:30:33	No
2	0.00	0.00	0.0000	0.0146	0.0027	11:31:02	No
Mean:	0.00	0.00	-0.0001				
SD :	0.002	0.002	0.0000				
%RSD:	66.7	66.7	66.7043				

Element: Hg Seq. No.: 24 AS Loc.: 18 Date: 06/23/2006  
 Sample ID: 0606341-03 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.11	0.11	0.0028	0.0281	0.0055	11:32:22	No
2	0.11	0.11	0.0028	0.0288	0.0056	11:32:52	No
Mean:	0.11	0.11	0.0028				
SD :	0.001	0.001	0.0000				
%RSD:	0.9	0.9	0.8770				

Element: Hg Seq. No.: 25 AS Loc.: 5 Date: 06/23/2006  
 Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.10	3.10	0.0795	0.4122	0.0823	11:34:16	No
2	3.11	3.11	0.0798	0.4070	0.0825	11:34:45	No
Mean:	3.10	3.10	0.0797				
SD :	0.008	0.008	0.0002				
%RSD:	0.2	0.2	0.2470				

QC value within specified limits.

Element: Hg Seq. No.: 26 AS Loc.: 1 Date: 06/23/2006  
 Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0002	0.0127	0.0025	11:36:10	No
2	-0.01	-0.01	-0.0002	0.0131	0.0025	11:36:39	No
Mean:	-0.01	-0.01	-0.0002				
SD :	0.000	0.000	0.0000				
%RSD:	3.2	3.2	3.2097				

QC value within specified limits.

Element: Hg Seq. No.: 27 AS Loc.: 19 Date: 06/23/2006  
 Sample ID: 0606341-01

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0000	0.0144	0.0027	11:38:02	No
2	0.00	0.00	0.0000	0.0143	0.0027	11:38:31	No
Mean:	0.00	0.00	0.0000				
SD :	0.000	0.000	0.0000				
%RSD:	30.7	30.7	30.7131				

ND

Element: Hg Seq. No.: 28 AS Loc.: 20 Date: 06/23/2006  
 Sample ID: 0606341-02

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0001	0.0145	0.0026	11:39:54	No
2	-0.01	-0.01	-0.0003	0.0128	0.0025	11:40:24	No
Mean:	-0.01	-0.01	-0.0002				
SD :	0.004	0.004	0.0001				
%RSD:	45.6	45.6	45.6360				

ND

Element: Hg Seq. No.: 29 AS Loc.: 21 Date: 06/23/2006  
 Sample ID: 0606341-03

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0132	0.0024	11:41:47	No
2	-0.01	-0.01	-0.0004	0.0119	0.0024	11:42:16	No
Mean:	-0.01	-0.01	-0.0003				
SD :	0.002	0.002	0.0001				
%RSD:	16.6	16.6	16.6357				

ND

Element: Hg Seq. No.: 30 AS Loc.: 22 Date: 06/23/2006

Sample ID: bf62210-dup1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0002	0.0137	0.0025	11:43:39	No
2	-0.01	-0.01	-0.0003	0.0124	0.0024	11:44:08	No
Mean:	-0.01	-0.01	-0.0003				
SD :	0.003	0.003	0.0001				
%RSD:	33.0	33.0	33.0126				

Element: Hg Seq. No.: 31 AS Loc.: 23 Date: 06/23/2006  
Sample ID: bf62210-ms1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.98	2.98	0.0765	0.3956	0.0792	11:45:33	No
2	2.98	2.98	0.0764	0.3937	0.0791	11:46:02	No
Mean:	2.98	2.98	0.0764				
SD :	0.004	0.004	0.0001				
%RSD:	0.1	0.1	0.1293				

Element: Hg Seq. No.: 32 AS Loc.: 24 Date: 06/23/2006  
Sample ID: bf62210-msd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.01	3.01	0.0771	0.3960	0.0798	11:47:27	No
2	3.01	3.01	0.0772	0.3929	0.0799	11:47:57	No
Mean:	3.01	3.01	0.0771				
SD :	0.001	0.001	0.0000				
%RSD:							

Element: Hg Seq. No.: 33 AS Loc.: 25 Date: 06/23/2006  
Sample ID: bf62210-sd1 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.09	-0.09	-0.0022	0.0027	0.0005	11:49:22	No
2	-0.09	-0.09	-0.0022	0.0020	0.0005	11:49:52	No
Mean:	-0.09	-0.09	-0.0022				
SD :	0.001	0.001	0.0000				
%RSD:	0.8	0.8	0.7614				

Element: Hg Seq. No.: 34 AS Loc.: 26 Date: 06/23/2006  
Sample ID: bf62210-pds1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.08	3.08	0.0790	0.4055	0.0818	11:51:17	No
2	3.08	3.08	0.0790	0.4027	0.0817	11:51:46	No
Mean:	3.08	3.08	0.0790				
SD :	0.001	0.001	0.0000				
%RSD:							

Element: Hg Seq. No.: 35 AS Loc.: 27 Date: 06/23/2006  
Sample ID: 0606346-01

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
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#	µg/L	µg/L	Signal	Area	Height	Time	Stored
1	-0.01	-0.01	-0.0002	0.0135	0.0025	11:53:12	No
2	-0.01	-0.01	-0.0003	0.0125	0.0024	11:53:41	No
Mean:	-0.01	-0.01	-0.0003				
SD :	0.004	0.004	0.0001				
%RSD:	33.3	33.3	33.3474				

=====  
 Element: Hg Seq. No.: 36 AS Loc.: 28 Date: 06/23/2006  
 Sample ID: 0606346-02

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0004	0.0127	0.0024	11:55:08	No
2	-0.02	-0.02	-0.0005	0.0114	0.0023	11:55:37	No
Mean:	-0.02	-0.02	-0.0004				
SD :	0.003	0.003	0.0001				
%RSD:	19.5	19.5	19.5253				

=====  
 Element: Hg Seq. No.: 37 AS Loc.: 5 Date: 06/23/2006  
 Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.10	3.10	0.0796	0.4090	0.0823	11:57:03	No
2	3.09	3.09	0.0793	0.4073	0.0820	11:57:32	No
Mean:	3.10	3.10	0.0794				
SD :	0.007	0.007	0.0002				
%RSD:	0.2	0.2	0.2351				

QC value within specified limits. ✓

=====  
 Element: Hg Seq. No.: 38 AS Loc.: 1 Date: 06/23/2006  
 Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0130	0.0025	11:58:56	No
2	-0.01	-0.01	-0.0003	0.0130	0.0025	11:59:26	No
Mean:	-0.01	-0.01	-0.0003				
SD :	0.000	0.000	0.0000				
%RSD:	2.6	2.6	2.5764				

QC value within specified limits. ✓

=====  
 Element: Hg Seq. No.: 39 AS Loc.: 29 Date: 06/23/2006  
 Sample ID: 0606346-03

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	-0.0001	0.0141	0.0026	12:00:51	No
2	-0.01	-0.01	-0.0002	0.0126	0.0025	12:01:20	No
Mean:	-0.01	-0.01	-0.0002				
SD :	0.004	0.004	0.0001				
%RSD:	61.0	61.0	60.9529				

=====  
 Element: Hg Seq. No.: 40 AS Loc.: 30 Date: 06/23/2006  
 Sample ID: 0606346-04

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
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1	-0.01	-0.01	-0.0001	0.0140	0.0026	12:02:47	No
2	-0.01	-0.01	-0.0003	0.0120	0.0024	12:03:16	No
Mean:	-0.01	-0.01	-0.0002				
SD :	0.005	0.005	0.0001				
%RSD:	57.0	57.0	56.9533				

ND

=====  
 Element: Hg      Seq. No.: 41      AS Loc.: 31      Date: 06/23/2006  
 Sample ID: 0606346-05

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0004	0.0126	0.0024	12:04:46	No
2	-0.02	-0.02	-0.0004	0.0118	0.0023	12:05:16	No
Mean:	-0.02	-0.02	-0.0004				
SD :	0.002	0.002	0.0000				
%RSD:	12.5	12.5	12.5048				

ND

=====  
 Element: Hg      Seq. No.: 42      AS Loc.: 32      Date: 06/23/2006  
 Sample ID: 0606346-06

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0004	0.0121	0.0023	12:06:40	No
2	-0.01	-0.01	-0.0004	0.0126	0.0024	12:07:09	No
Mean:	-0.02	-0.02	-0.0004				
SD :	0.001	0.001	0.0000				
%RSD:	4.2	4.2	4.1558				

ND

=====  
 Element: Hg      Seq. No.: 43      AS Loc.: 33      Date: 06/23/2006  
 Sample ID: 0606346-07

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0001	0.0148	0.0028	12:08:30	No
2	0.00	0.00	0.0000	0.0138	0.0027	12:09:00	No
Mean:	0.00	0.00	0.0000				
SD :	0.003	0.003	0.0001				
%RSD:	1354	1354	1354.2531				

ND

=====  
 Element: Hg      Seq. No.: 44      AS Loc.: 34      Date: 06/23/2006  
 Sample ID: 0606346-08

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0000	0.0145	0.0028	12:10:21	No
2	0.00	0.00	0.0000	0.0143	0.0027	12:10:50	No
Mean:	0.00	0.00	0.0000				
SD :	0.001	0.001	0.0000				
%RSD:	153.0	153.0	153.0115				

ND

=====  
 Element: Hg      Seq. No.: 45      AS Loc.: 35      Date: 06/23/2006  
 Sample ID: 0606346-09

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0135	0.0025	12:12:11	No
2	-0.02	-0.02	-0.0004	0.0114	0.0023	12:12:40	No
Mean:	-0.01	-0.01	-0.0003				

ND

SD : 0.005 0.005 0.0001  
 %RSD: 34.8 34.8 34.7769

=====  
 Element: Hg Seq. No.: 46 AS Loc.: 36 Date: 06/23/2006  
 Sample ID: 0606346-10

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0004	0.0125	0.0024	12:14:03	No
2	-0.02	-0.02	-0.0004	0.0121	0.0023	12:14:32	No
Mean:	-0.02	-0.02	-0.0004				
SD :	0.001	0.001	0.0000				
%RSD:	9.7	9.7	9.7283				

*ND*

=====  
 Element: Hg Seq. No.: 47 AS Loc.: 37 Date: 06/23/2006  
 Sample ID: bf62210-dup2

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0004	0.0120	0.0024	12:15:55	No
2	-0.02	-0.02	-0.0004	0.0120	0.0023	12:16:24	No
Mean:	-0.01	-0.01	-0.0004				
SD :	0.001	0.001	0.0000				
%RSD:	3.9	3.9	3.9243				

*ND*

=====  
 Element: Hg Seq. No.: 48 AS Loc.: 38 Date: 06/23/2006  
 Sample ID: bf62210-ms2

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.07	3.07	0.0787	0.4075	0.0814	12:17:47	No
2	3.07	3.07	0.0787	0.4046	0.0814	12:18:17	No
Mean:	3.07	3.07	0.0787				
SD :	0.000	0.000	0.0000				
%RSD:							

*100%*

=====  
 Element: Hg Seq. No.: 49 AS Loc.: 5 Date: 06/23/2006  
 Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.10	3.10	0.0794	0.4119	0.0822	12:19:42	No
2	3.09	3.09	0.0792	0.4099	0.0820	12:20:11	No
Mean:	3.09	3.09	0.0793				
SD :	0.006	0.006	0.0001				
%RSD:	0.2	0.2	0.1835				

QC value within specified limits. ✓

=====  
 Element: Hg Seq. No.: 50 AS Loc.: 1 Date: 06/23/2006  
 Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0131	0.0024	12:21:36	No
2	-0.02	-0.02	-0.0005	0.0117	0.0023	12:22:05	No
Mean:	-0.02	-0.02	-0.0004				
SD :	0.004	0.004	0.0001				
%RSD:	23.6	23.6	23.5699				



QC value within specified limits. ✓

Element: Hg Seq. No.: 51 AS Loc.: 39 Date: 06/23/2006  
 Sample ID: bf62210-msd2

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.04	3.04	0.0780	0.4031	0.0808	12:23:29	No
2	3.04	3.04	0.0780	0.4005	0.0808	12:23:58	No
Mean:	3.04	3.04	0.0780				
SD :	0.000	0.000	0.0000				
%RSD:					100%	$\frac{3.07-3.04}{3.055} \cdot 100 = 1\%$	

Element: Hg Seq. No.: 52 AS Loc.: 40 Date: 06/23/2006  
 Sample ID: bf62210-sd2 x5

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.09	-0.09	-0.0022	0.0028	0.0005	12:25:23	No
2	-0.09	-0.09	-0.0022	0.0022	0.0005	12:25:52	No
Mean:	-0.09	-0.09	-0.0022				
SD :	0.001	0.001	0.0000				
%RSD:	1.1	1.1	1.1469				

Element: Hg Seq. No.: 53 AS Loc.: 41 Date: 06/23/2006  
 Sample ID: bf62210-pds2

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.01	3.01	0.0771	0.3982	0.0799	12:27:17	No
2	3.02	3.02	0.0774	0.3967	0.0801	12:27:47	No
Mean:	3.01	3.01	0.0773				
SD :	0.006	0.006	0.0002				
%RSD:	0.2	0.2	0.2099				

Element: Hg Seq. No.: 54 AS Loc.: 42 Date: 06/23/2006  
 Sample ID: bf62211-blk1

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0002	0.0132	0.0025	12:29:12	No
2	-0.02	-0.02	-0.0004	0.0115	0.0023	12:29:41	No
Mean:	-0.01	-0.01	-0.0003				
SD :	0.006	0.006	0.0001				
%RSD:	50.1	50.1	50.1196				

Element: Hg Seq. No.: 55 AS Loc.: 43 Date: 06/23/2006  
 Sample ID: bf62211-bs1

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.97	2.97	0.0763	0.3889	0.0790	12:31:06	No
2	2.97	2.97	0.0763	0.3870	0.0790	12:31:35	No
Mean:	2.97	2.97	0.0763				
SD :	0.001	0.001	0.0000				
%RSD:					99%		

Element: Hg Seq. No.: 56 AS Loc.: 44 Date: 06/23/2006  
 Sample ID: bf62211-bsd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.96	2.96	0.0760	0.3884	0.0787	12:33:02	No
2	2.96	2.96	0.0759	0.3859	0.0786	12:33:32	No
Mean:	2.96	2.96	0.0759				
SD :	0.003	0.003	0.0001				
%RSD:	0.1	0.1	0.1033	99%		$\frac{2.97-2.96}{2.965}$	100% = 0.3%

Element: Hg Seq. No.: 57 AS Loc.: 45 Date: 06/23/2006  
 Sample ID: 0606346-11

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	-0.0001	0.0144	0.0027	12:34:58	No
2	-0.01	-0.01	-0.0002	0.0137	0.0026	12:35:28	No
Mean:	0.00	0.00	-0.0001				
SD :	0.003	0.003	0.0001				
%RSD:	70.3	70.3	70.2585				

Element: Hg Seq. No.: 58 AS Loc.: 46 Date: 06/23/2006  
 Sample ID: 0606346-12

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0001	0.0155	0.0029	12:36:55	No
2	0.00	0.00	0.0001	0.0149	0.0028	12:37:24	No
Mean:	0.00	0.00	0.0001				
SD :	0.002	0.002	0.0000				
%RSD:	48.2	48.2	48.2158				

Element: Hg Seq. No.: 59 AS Loc.: 47 Date: 06/23/2006  
 Sample ID: 0606346-13

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	-0.0001	0.0143	0.0026	12:38:52	No
2	-0.01	-0.01	-0.0002	0.0131	0.0025	12:39:21	No
Mean:	-0.01	-0.01	-0.0002				
SD :	0.003	0.003	0.0001				
%RSD:	45.1	45.1	45.1025				

Element: Hg Seq. No.: 60 AS Loc.: 48 Date: 06/23/2006  
 Sample ID: 0606346-14

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0004	0.0128	0.0023	12:40:45	No
2	-0.02	-0.02	-0.0006	0.0117	0.0022	12:41:14	No
Mean:	-0.02	-0.02	-0.0005				
SD :	0.003	0.003	0.0001				
%RSD:	17.4	17.4	17.3875				

Element: Hg Seq. No.: 61 AS Loc.: 5 Date: 06/23/2006  
 Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.05	3.05	0.0782	0.4011	0.0810	12:42:38	No
2	3.05	3.05	0.0782	0.3986	0.0809	12:43:08	No
Mean:	3.05	3.05	0.0782				
SD :	0.003	0.003	0.0001				
%RSD:							

QC value within specified limits. ✓

=====  
Element: Hg      Seq. No.: 62      AS Loc.: 1      Date: 06/23/2006  
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0005	0.0122	0.0022	12:44:32	No
2	-0.02	-0.02	-0.0005	0.0117	0.0022	12:45:01	No
Mean:	-0.02	-0.02	-0.0005				
SD :	0.001	0.001	0.0000				
%RSD:	5.9	5.9	5.9210				

QC value within specified limits. ✓

=====  
Element: Hg      Seq. No.: 63      AS Loc.: 49      Date: 06/23/2006  
Sample ID: 0606346-15

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0134	0.0024	12:46:23	No
2	-0.01	-0.01	-0.0004	0.0130	0.0024	12:46:52	No
Mean:	-0.01	-0.01	-0.0003				
SD :	0.001	0.001	0.0000				
%RSD:	7.5	7.5	7.4933				

ND

=====  
Element: Hg      Seq. No.: 64      AS Loc.: 50      Date: 06/23/2006  
Sample ID: 0606346-01 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0133	0.0024	12:48:13	No
2	-0.01	-0.01	-0.0004	0.0124	0.0023	12:48:43	No
Mean:	-0.01	-0.01	-0.0003				
SD :	0.002	0.002	0.0001				
%RSD:	14.8	14.8	14.7760				

ND

=====  
Element: Hg      Seq. No.: 65      AS Loc.: 51      Date: 06/23/2006  
Sample ID: 0606346-02 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0132	0.0024	12:50:05	No
2	-0.01	-0.01	-0.0003	0.0135	0.0024	12:50:35	No
Mean:	-0.01	-0.01	-0.0003				
SD :	0.000	0.000	0.0000				
%RSD:	2.0	2.0	2.0322				

ND

=====  
Element: Hg      Seq. No.: 66      AS Loc.: 52      Date: 06/23/2006  
Sample ID: 0606346-03 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
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#	µg/L	µg/L	Signal	Area	Height	Time	Stored
1	-0.02	-0.02	-0.0004	0.0123	0.0023	12:51:57	No
2	-0.01	-0.01	-0.0004	0.0123	0.0024	12:52:27	No
Mean:	-0.01	-0.01	-0.0004				
SD :	0.001	0.001	0.0000				
%RSD:	4.6	4.6	4.6337				

Element: Hg Seq. No.: 67 AS Loc.: 53 Date: 06/23/2006  
Sample ID: 0606346-04 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0002	0.0168	0.0030	12:53:49	No
2	0.01	0.01	0.0001	0.0154	0.0029	12:54:18	No
Mean:	0.01	0.01	0.0002				
SD :	0.003	0.003	0.0001				
%RSD:	37.9	37.9	37.9355				

Element: Hg Seq. No.: 68 AS Loc.: 54 Date: 06/23/2006  
Sample ID: 0606346-05 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0130	0.0024	12:55:42	No
2	-0.01	-0.01	-0.0003	0.0138	0.0025	12:56:11	No
Mean:	-0.01	-0.01	-0.0003				
SD :	0.001	0.001	0.0000				
%RSD:	6.4	6.4	6.4396				

Element: Hg Seq. No.: 69 AS Loc.: 55 Date: 06/23/2006  
Sample ID: bf62211-dup1

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0139	0.0025	12:57:34	No
2	-0.01	-0.01	-0.0003	0.0132	0.0024	12:58:04	No
Mean:	-0.01	-0.01	-0.0003				
SD :	0.002	0.002	0.0001				
%RSD:	17.9	17.9	17.8922				

Element: Hg Seq. No.: 70 AS Loc.: 56 Date: 06/23/2006  
Sample ID: bf62211-ms1

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.13	3.13	0.0803	0.4167	0.0830	12:59:28	No
2	3.12	3.12	0.0800	0.4112	0.0827	12:59:57	No
Mean:	3.12	3.12	0.0802				
SD :	0.009	0.009	0.0002				
%RSD:	0.3	0.3	0.2728				

Element: Hg Seq. No.: 71 AS Loc.: 57 Date: 06/23/2006  
Sample ID: bf62211-msd1

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.19	3.19	0.0820	0.4239	0.0847	01:01:22	No
2	3.18	3.18	0.0816	0.4206	0.0843	01:01:52	No

Mean: 3.19 3.19 0.0818  
 SD : 0.011 0.011 0.0003  
 %RSD: 0.3 0.3 0.3356

100%

$$\frac{3.19 - 3.12}{3.155} \cdot 100 = 2.20$$

Element: Hg Seq. No.: 72 AS Loc.: 58 Date: 06/23/2006  
 Sample ID: bf62211-sd1 x5

Repl #	Sample Conc µg/L	Stnd Conc µg/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.08	-0.08	-0.0021	0.0039	0.0006	01:03:17	No
2	-0.08	-0.08	-0.0021	0.0041	0.0007	01:03:46	No
Mean:	-0.08	-0.08	-0.0021				
SD :	0.002	0.002	0.0000				
%RSD:	2.1	2.1	2.1168				

Element: Hg Seq. No.: 73 AS Loc.: 5 Date: 06/23/2006  
 Sample ID: CCV

Repl #	Sample Conc µg/L	Stnd Conc µg/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.11	3.11	0.0798	0.4120	0.0826	01:05:12	No
2	3.10	3.10	0.0796	0.4088	0.0823	01:05:41	No
Mean:	3.11	3.11	0.0797				
SD :	0.008	0.008	0.0002				
%RSD:	0.2	0.2	0.2494				

QC value within specified limits.

Element: Hg Seq. No.: 74 AS Loc.: 1 Date: 06/23/2006  
 Sample ID: ICCB

Repl #	Sample Conc µg/L	Stnd Conc µg/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0006	0.0115	0.0022	01:07:05	No
2	-0.02	-0.02	-0.0006	0.0116	0.0021	01:07:34	No
Mean:	-0.02	-0.02	-0.0006				
SD :	0.001	0.001	0.0000				
%RSD:	3.9	3.9	3.9111				

QC value within specified limits.

Element: Hg Seq. No.: 75 AS Loc.: 59 Date: 06/23/2006  
 Sample ID: bf62211-pds1

Repl #	Sample Conc µg/L	Stnd Conc µg/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.03	3.03	0.0777	0.4002	0.0804	01:08:59	No
2	3.02	3.02	0.0775	0.3990	0.0802	01:09:28	No
Mean:	3.02	3.02	0.0776				
SD :	0.005	0.005	0.0001				
%RSD:	0.2	0.2	0.1580				

Element: Hg Seq. No.: 76 AS Loc.: 60 Date: 06/23/2006  
 Sample ID: 0606346-06 dis

Repl #	Sample Conc µg/L	Stnd Conc µg/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0004	0.0125	0.0024	01:10:52	No
2	-0.01	-0.01	-0.0004	0.0125	0.0023	01:11:22	No
Mean:	-0.01	-0.01	-0.0004				

SD : 0.001 0.001 0.0000  
 %RSD: 5.3 5.3 5.3372

=====  
 Element: Hg Seq. No.: 77 AS Loc.: 61 Date: 06/23/2006  
 Sample ID: 0606346-07 dis

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Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0131	0.0024	01:12:49	No
2	-0.02	-0.02	-0.0004	0.0119	0.0023	01:13:18	No
Mean:	-0.01	-0.01	-0.0004				
SD :	0.003	0.003	0.0001				
%RSD:	19.8	19.8	19.8445				

ND

=====  
 Element: Hg Seq. No.: 78 AS Loc.: 62 Date: 06/23/2006  
 Sample ID: 0606346-08 dis

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Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0004	0.0126	0.0024	01:14:45	No
2	-0.01	-0.01	-0.0004	0.0129	0.0024	01:15:14	No
Mean:	-0.01	-0.01	-0.0004				
SD :	0.000	0.000	0.0000				
%RSD:	0.4	0.4	0.3995				

ND

=====  
 Element: Hg Seq. No.: 79 AS Loc.: 63 Date: 06/23/2006  
 Sample ID: 0606346-09 dis

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Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0136	0.0025	01:16:37	No
2	-0.01	-0.01	-0.0004	0.0124	0.0024	01:17:07	No
Mean:	-0.01	-0.01	-0.0003				
SD :	0.002	0.002	0.0001				
%RSD:	18.8	18.8	18.7708				

ND

=====  
 Element: Hg Seq. No.: 80 AS Loc.: 64 Date: 06/23/2006  
 Sample ID: 0606346-10 dis

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Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0145	0.0025	01:18:27	No
2	-0.02	-0.02	-0.0006	0.0100	0.0021	01:18:56	No
Mean:	-0.02	-0.02	-0.0004				
SD :	0.009	0.009	0.0002				
%RSD:	55.8	55.8	55.8383				

ND

=====  
 Element: Hg Seq. No.: 81 AS Loc.: 65 Date: 06/23/2006  
 Sample ID: 0606346-11 dis

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Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0127	0.0024	01:20:17	No
2	-0.01	-0.01	-0.0002	0.0134	0.0025	01:20:46	No
Mean:	-0.01	-0.01	-0.0003				
SD :	0.002	0.002	0.0001				
%RSD:	19.0	19.0	18.9622				

ND

Element: Hg Seq. No.: 82 AS Loc.: 66 Date: 06/23/2006  
 Sample ID: 0606346-12 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0128	0.0024	01:22:07	No
2	-0.02	-0.02	-0.0005	0.0119	0.0023	01:22:36	No
Mean:	-0.02	-0.02	-0.0004				
SD :	0.003	0.003	0.0001				
%RSD:	18.6	18.6	18.5812				

Element: Hg Seq. No.: 83 AS Loc.: 67 Date: 06/23/2006  
 Sample ID: 0606346-13 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0004	0.0126	0.0023	01:23:56	No
2	-0.02	-0.02	-0.0005	0.0117	0.0022	01:24:25	No
Mean:	-0.02	-0.02	-0.0004				
SD :	0.003	0.003	0.0001				
%RSD:	15.7	15.7	15.7296				

Element: Hg Seq. No.: 84 AS Loc.: 68 Date: 06/23/2006  
 Sample ID: 0606346-14 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0004	0.0131	0.0024	01:25:48	No
2	-0.02	-0.02	-0.0005	0.0114	0.0022	01:26:17	No
Mean:	-0.02	-0.02	-0.0005				
SD :	0.004	0.004	0.0001				
%RSD:	25.2	25.2	25.1928				

Element: Hg Seq. No.: 85 AS Loc.: 5 Date: 06/23/2006  
 Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.16	3.16	0.0811	0.4176	0.0838	01:27:42	No
2	3.16	3.16	0.0811	0.4156	0.0839	01:28:11	No
Mean:	3.16	3.16	0.0811				
SD :	0.002	0.002	0.0000				
%RSD:							

QC value within specified limits. ✓

Element: Hg Seq. No.: 86 AS Loc.: 1 Date: 06/23/2006  
 Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0006	0.0190	0.0033	01:29:37	No
2	0.02	0.02	0.0005	0.0182	0.0032	01:30:06	No
Mean:	0.02	0.02	0.0005				
SD :	0.002	0.002	0.0000				
%RSD:	8.4	8.4	8.4210				

QC value within specified limits. ✓

Element: Hg Seq. No.: 87 AS Loc.: 69 Date: 06/23/2006  
 Sample ID: 0606346-15 dis

Repl #	Sample Conc µg/L	Stnd Conc µg/L	Blnk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0134	0.0025	01:31:30	No
2	-0.01	-0.01	-0.0004	0.0123	0.0024	01:31:59	No
Mean:	-0.01	-0.01	-0.0003				
SD :	0.003	0.003	0.0001				
%RSD:	21.0	21.0	20.9578				

Element: Hg Seq. No.: 88 AS Loc.: 70 Date: 06/23/2006  
 Sample ID: bf62211-dup2

Repl #	Sample Conc µg/L	Stnd Conc µg/L	Blnk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0005	0.0124	0.0023	01:33:22	No
2	-0.02	-0.02	-0.0004	0.0128	0.0023	01:33:51	No
Mean:	-0.02	-0.02	-0.0004				
SD :	0.001	0.001	0.0000				
%RSD:	4.4	4.4	4.3938				

Element: Hg Seq. No.: 89 AS Loc.: 71 Date: 06/23/2006  
 Sample ID: bf62211-ms2

Repl #	Sample Conc µg/L	Stnd Conc µg/L	Blnk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.15	3.15	0.0809	0.4164	0.0836	01:35:15	No
2	3.16	3.16	0.0811	0.4158	0.0839	01:35:44	No
Mean:	3.16	3.16	0.0810				
SD :	0.007	0.007	0.0002				
%RSD:	0.2	0.2	0.2307				

Element: Hg Seq. No.: 90 AS Loc.: 72 Date: 06/23/2006  
 Sample ID: bf62211-msd2

Repl #	Sample Conc µg/L	Stnd Conc µg/L	Blnk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.16	3.16	0.0811	0.4191	0.0839	01:37:08	No
2	3.16	3.16	0.0810	0.4157	0.0837	01:37:37	No
Mean:	3.16	3.16	0.0811				
SD :	0.004	0.004	0.0001				
%RSD:	0.1	0.1	0.1374				

$\frac{3.16 - 3.16}{3.16} \cdot 100 = 0\%$

Element: Hg Seq. No.: 91 AS Loc.: 73 Date: 06/23/2006  
 Sample ID: bf62211-sd2 x5

Repl #	Sample Conc µg/L	Stnd Conc µg/L	Blnk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.08	-0.08	-0.0021	0.0031	0.0006	01:39:00	No
2	-0.09	-0.09	-0.0022	0.0024	0.0005	01:39:29	No
Mean:	-0.08	-0.08	-0.0022				
SD :	0.001	0.001	0.0000				
%RSD:	1.1	1.1	1.1499				

Element: Hg Seq. No.: 92 AS Loc.: 74 Date: 06/23/2006  
 Sample ID: bf62211-pds2



Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.08	3.08	0.0790	0.4063	0.0817	01:40:54	No
2	3.07	3.07	0.0788	0.4041	0.0815	01:41:23	No
Mean:	3.07	3.07	0.0789				
SD :	0.005	0.005	0.0001				
%RSD:	0.2	0.2	0.1747				

*102%*

Element: Hg Seq. No.: 93 AS Loc.: 75 Date: 06/23/2006  
Sample ID: bf62215-blk1

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0000	0.0154	0.0028	01:42:48	No
2	0.00	0.00	-0.0001	0.0144	0.0027	01:43:17	No
Mean:	0.00	0.00	0.0000				
SD :	0.003	0.003	0.0001				
%RSD:	1057	1057	1056.7348				

*ND*

Element: Hg Seq. No.: 94 AS Loc.: 76 Date: 06/23/2006  
Sample ID: bf62215-bs1

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.16	3.16	0.0812	0.4213	0.0839	01:44:44	No
2	3.14	3.14	0.0806	0.4167	0.0834	01:45:14	No
Mean:	3.15	3.15	0.0809				
SD :	0.015	0.015	0.0004				
%RSD:	0.5	0.5	0.4886				

*105%*

Element: Hg Seq. No.: 95 AS Loc.: 77 Date: 06/23/2006  
Sample ID: bf62215-bsd1

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.18	3.18	0.0816	0.4236	0.0843	01:46:41	No
2	3.17	3.17	0.0814	0.4203	0.0841	01:47:11	No
Mean:	3.18	3.18	0.0815				
SD :	0.006	0.006	0.0002				
%RSD:	0.2	0.2	0.1875				

*106%*       $\frac{3.18-3.15}{3.165} \cdot 100 = 1\%$

Element: Hg Seq. No.: 96 AS Loc.: 78 Date: 06/23/2006  
Sample ID: 0606310-01 tclp

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0004	0.0166	0.0031	01:48:34	No
2	0.02	0.02	0.0005	0.0175	0.0032	01:49:04	No
Mean:	0.02	0.02	0.0004				
SD :	0.003	0.003	0.0001				
%RSD:	15.7	15.7	15.7396				

*ND*

Element: Hg Seq. No.: 97 AS Loc.: 5 Date: 06/23/2006  
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.16	3.16	0.0812	0.4170	0.0839	01:50:26	No

2            3.16            3.16            0.0811    0.4142    0.0839    01:50:55   No  
 Mean:        3.16            3.16            0.0811  
 SD :         0.001           0.001           0.0000  
 %RSD:  
 QC value within specified limits.    ✓

=====  
 Element: Hg        Seq. No.: 98            AS Loc.: 1        Date: 06/23/2006  
 Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0005	0.0177	0.0032	01:52:20	No
2	0.02	0.02	0.0004	0.0179	0.0032	01:52:49	No
Mean:	0.02	0.02	0.0004				
SD :	0.001	0.001	0.0000				
%RSD:	6.9	6.9	6.8890				

QC value within specified limits.    ✓

=====  
 Element: Hg        Seq. No.: 99            AS Loc.: 79        Date: 06/23/2006  
 Sample ID: 0606310-02 tclp

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0000	0.0149	0.0027	01:54:11	No
2	0.00	0.00	0.0000	0.0156	0.0028	01:54:40	No
Mean:	0.00	0.00	0.0000				
SD :	0.000	0.000	0.0000				
%RSD:	28.8	28.8	28.8046				

ND

=====  
 Element: Hg        Seq. No.: 100            AS Loc.: 80        Date: 06/23/2006  
 Sample ID: 0606310-03 tclp

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0001	0.0165	0.0028	01:56:01	No
2	0.00	0.00	-0.0001	0.0137	0.0026	01:56:29	No
Mean:	0.00	0.00	0.0000				
SD :	0.006	0.006	0.0002				
%RSD:	12420	12420	12423.3531				

ND

=====  
 Element: Hg        Seq. No.: 101            AS Loc.: 81        Date: 06/23/2006  
 Sample ID: 0606310-04 tclp

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0004	0.0180	0.0031	01:57:51	No
2	0.01	0.01	0.0001	0.0156	0.0029	01:58:20	No
Mean:	0.01	0.01	0.0003				
SD :	0.006	0.006	0.0001				
%RSD:	59.9	59.9	59.9022				

ND

=====  
 Element: Hg        Seq. No.: 102            AS Loc.: 82        Date: 06/23/2006  
 Sample ID: 0606310-05 tclp

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0002	0.0172	0.0030	01:59:41	No
2	0.00	0.00	0.0000	0.0146	0.0028	02:00:10	No

Mean: 0.01 0.01 0.0001  
 SD : 0.006 0.006 0.0002  
 %RSD: 118.9 118.9 118.8816

ND

Element: Hg Seq. No.: 103 AS Loc.: 83 Date: 06/23/2006  
 Sample ID: 0606310-06 tclp

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0001	0.0159	0.0028	02:01:33	No
2	0.00	0.00	-0.0001	0.0142	0.0026	02:02:02	No
Mean:	0.00	0.00	0.0000				
SD :	0.004	0.004	0.0001				
%RSD:	1143	1143	1143.1695				

ND

Element: Hg Seq. No.: 104 AS Loc.: 84 Date: 06/23/2006  
 Sample ID: 0606310-07 tclp

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0000	0.0148	0.0027	02:03:25	No
2	0.00	0.00	-0.0001	0.0145	0.0027	02:03:54	No
Mean:	0.00	0.00	0.0000				
SD :	0.002	0.002	0.0000				
%RSD:	82.2	82.2	82.1905				

ND

Element: Hg Seq. No.: 105 AS Loc.: 85 Date: 06/23/2006  
 Sample ID: bf62215-dup1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0002	0.0140	0.0025	02:05:17	No
2	-0.01	-0.01	-0.0003	0.0124	0.0024	02:05:47	No
Mean:	-0.01	-0.01	-0.0003				
SD :	0.003	0.003	0.0001				
%RSD:	32.6	32.6	32.5677				

ND

Element: Hg Seq. No.: 106 AS Loc.: 86 Date: 06/23/2006  
 Sample ID: bf62215-ms1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.09	3.09	0.0792	0.4111	0.0819	02:07:09	No
2	3.08	3.08	0.0789	0.4087	0.0816	02:07:38	No
Mean:	3.08	3.08	0.0791				
SD :	0.008	0.008	0.0002				
%RSD:	0.3	0.3	0.2624				

103%

Element: Hg Seq. No.: 107 AS Loc.: 87 Date: 06/23/2006  
 Sample ID: bf62215-msd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.11	3.11	0.0799	0.4134	0.0826	02:09:01	No
2	3.12	3.12	0.0802	0.4133	0.0829	02:09:30	No
Mean:	3.12	3.12	0.0800				
SD :	0.007	0.007	0.0002				
%RSD:	0.2	0.2	0.2262				

104%

$\frac{3.12 - 3.08}{3.10} \cdot 100 = 1.3\%$

Element: Hg Seq. No.: 108 AS Loc.: 88 Date: 06/23/2006  
Sample ID: bf62215-sd1 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.08	-0.08	-0.0022	0.0027	0.0006	02:10:55	No
2	-0.08	-0.08	-0.0022	0.0023	0.0006	02:11:25	No
Mean:	-0.08	-0.08	-0.0022				
SD :	0.001	0.001	0.0000				
%RSD:	0.9	0.9	0.8539				

*ND*

Element: Hg Seq. No.: 109 AS Loc.: 5 Date: 06/23/2006  
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.17	3.17	0.0814	0.4166	0.0841	02:12:51	No
2	3.16	3.16	0.0810	0.4153	0.0837	02:13:20	No
Mean:	3.16	3.16	0.0812				
SD :	0.011	0.011	0.0003				
%RSD:	0.4	0.4	0.3569				

QC value within specified limits. ✓

Element: Hg Seq. No.: 110 AS Loc.: 1 Date: 06/23/2006  
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0003	0.0167	0.0030	02:14:44	No
2	0.01	0.01	0.0003	0.0171	0.0031	02:15:13	No
Mean:	0.01	0.01	0.0003				
SD :	0.001	0.001	0.0000				
%RSD:	6.2	6.2	6.2118				

QC value within specified limits. ✓

Element: Hg Seq. No.: 111 AS Loc.: 89 Date: 06/23/2006  
Sample ID: bf62215-pds1

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.03	3.03	0.0776	0.4017	0.0804	02:16:36	No
2	3.04	3.04	0.0779	0.3988	0.0807	02:17:05	No
Mean:	3.03	3.03	0.0778				
SD :	0.008	0.008	0.0002				
%RSD:	0.3	0.3	0.2602				

*100%*

Element: Hg Seq. No.: 112 AS Loc.: 90 Date: 06/23/2006  
Sample ID: bf62215-blk2

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0001	0.0149	0.0026	02:18:30	No
2	-0.01	-0.01	-0.0004	0.0122	0.0024	02:18:59	No
Mean:	-0.01	-0.01	-0.0003				
SD :	0.006	0.006	0.0002				
%RSD:	60.6	60.6	60.5567				

*ND*

Element: Hg Seq. No.: 113 AS Loc.: 91 Date: 06/23/2006  
Sample ID: 0606313-01 tclp

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0136	0.0025	02:20:25	No
2	-0.01	-0.01	-0.0004	0.0126	0.0024	02:20:53	No
Mean:	-0.01	-0.01	-0.0003				
SD :	0.003	0.003	0.0001				
%RSD:	24.1	24.1	24.0558				

Element: Hg Seq. No.: 114 AS Loc.: 92 Date: 06/23/2006  
Sample ID: bf62215-blk3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0002	0.0139	0.0025	02:22:16	No
2	-0.01	-0.01	-0.0003	0.0133	0.0025	02:22:45	No
Mean:	-0.01	-0.01	-0.0002				
SD :	0.002	0.002	0.0000				
%RSD:	19.6	19.6	19.5933				

Element: Hg Seq. No.: 115 AS Loc.: 93 Date: 06/23/2006  
Sample ID: 0606317-01 tclp

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0005	0.0123	0.0022	02:24:05	No
2	-0.02	-0.02	-0.0005	0.0123	0.0022	02:24:35	No
Mean:	-0.02	-0.02	-0.0005				
SD :	0.000	0.000	0.0000				
%RSD:	1.0	1.0	1.0115				

Element: Hg Seq. No.: 116 AS Loc.: 94 Date: 06/23/2006  
Sample ID: 0606317-02 tclp

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0005	0.0119	0.0022	02:25:55	No
2	-0.02	-0.02	-0.0006	0.0112	0.0021	02:26:24	No
Mean:	-0.02	-0.02	-0.0006				
SD :	0.002	0.002	0.0000				
%RSD:	8.8	8.8	8.7954				

Element: Hg Seq. No.: 117 AS Loc.: 95 Date: 06/23/2006  
Sample ID: bf62215-dup2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0005	0.0123	0.0023	02:27:46	No
2	-0.02	-0.02	-0.0005	0.0123	0.0022	02:28:15	No
Mean:	-0.02	-0.02	-0.0005				
SD :	0.001	0.001	0.0000				
%RSD:	3.5	3.5	3.4515				

Element: Hg Seq. No.: 118 AS Loc.: 96 Date: 06/23/2006  
Sample ID: bf62215-ms2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
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1	3.07	3.07	0.0787	0.4137	0.0814	02:29:36	No
2	3.06	3.06	0.0786	0.4135	0.0814	02:30:06	No
Mean:	3.07	3.07	0.0787				
SD :	0.002	0.002	0.0001				
%RSD:							

*100%*

=====  
 Element: Hg Seq. No.: 119 AS Loc.: 97 Date: 06/23/2006  
 Sample ID: bf62215-msd2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.08	3.08	0.0790	0.4140	0.0817	02:31:27	No
2	3.10	3.10	0.0796	0.4137	0.0823	02:31:57	No
Mean:	3.09	3.09	0.0793				
SD :	0.017	0.017	0.0004				
%RSD:	0.6	0.6	0.5534				

*103%*       $\frac{3.09 - 3.07}{3.09} \cdot 100 = 1%$

=====  
 Element: Hg Seq. No.: 120 AS Loc.: 98 Date: 06/23/2006  
 Sample ID: bf62215-sd2 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.09	-0.09	-0.0022	0.0023	0.0005	02:33:19	No
2	-0.09	-0.09	-0.0022	0.0016	0.0005	02:33:48	No
Mean:	-0.09	-0.09	-0.0022				
SD :	0.000	0.000	0.0000				
%RSD:	0.1	0.1	0.1490				

*ND*

=====  
 Element: Hg Seq. No.: 121 AS Loc.: 5 Date: 06/23/2006  
 Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.16	3.16	0.0811	0.4165	0.0839	02:35:12	No
2	3.18	3.18	0.0815	0.4124	0.0843	02:35:41	No
Mean:	3.17	3.17	0.0813				
SD :	0.011	0.011	0.0003				
%RSD:	0.3	0.3	0.3412				

QC value within specified limits. ✓

=====  
 Element: Hg Seq. No.: 122 AS Loc.: 1 Date: 06/23/2006  
 Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0001	0.0154	0.0029	02:37:05	No
2	0.01	0.01	0.0002	0.0161	0.0029	02:37:34	No
Mean:	0.01	0.01	0.0002				
SD :	0.001	0.001	0.0000				
%RSD:	22.3	22.3	22.2937				

QC value within specified limits. ✓

=====  
 Element: Hg Seq. No.: 123 AS Loc.: 99 Date: 06/23/2006  
 Sample ID: bf62215-pds2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.01	3.01	0.0773	0.4011	0.0800	02:38:57	No

2	3.00	3.00	0.0770	0.3996	0.0798	02:39:27	No
Mean:	3.01	3.01	0.0771				
SD :	0.006	0.006	0.0001				
%RSD:	0.2	0.2	0.1925				

*100%*

=====  
 Element: Hg      Seq. No.: 124      AS Loc.: 100      Date: 06/23/2006  
 Sample ID: 0606317-03 tclp

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0005	0.0118	0.0023	02:40:50	No
2	-0.02	-0.02	-0.0005	0.0118	0.0023	02:41:20	No
Mean:	-0.02	-0.02	-0.0005				
SD :	0.000	0.000	0.0000				
%RSD:	2.1	2.1	2.1398				

*ND*

=====  
 Element: Hg      Seq. No.: 125      AS Loc.: 5      Date: 06/23/2006  
 Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.17	3.17	0.0813	0.4172	0.0840	02:42:43	No
2	3.16	3.16	0.0810	0.4116	0.0837	02:43:13	No
Mean:	3.16	3.16	0.0812				
SD :	0.008	0.008	0.0002				
%RSD:	0.3	0.3	0.2599				

QC value within specified limits. ✓

=====  
 Element: Hg      Seq. No.: 126      AS Loc.: 1      Date: 06/23/2006  
 Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.01	0.01	0.0001	0.0155	0.0029	02:44:38	No
2	0.00	0.00	0.0000	0.0147	0.0028	02:45:08	No
Mean:	0.00	0.00	0.0001				
SD :	0.003	0.003	0.0001				
%RSD:	90.4	90.4	90.3851				

QC value within specified limits. ✓

# Metals Logbooks



ESS LABORATORY  
METALS PREP LOGBOOK

ANALYST: 88  
 DATE: 4/22/06  
 TIME: 1045  
 Batch ID: BF62206

HNO<sub>3</sub> Reagent - AR#: 046501B  
 1:1 HCl Reagent - WR#: 060616C  
 1:1 HNO<sub>3</sub> Reagent - WR#: UA  
 H<sub>2</sub>O<sub>2</sub> Reagent - AR#: UA

Hot Plate Temp (°C)  
 HB#1 95  
~~UA~~

Sample ID	matrix	pH	Initial wgt/vol	Final wgt/vol	QC ID/Lot #	QC wgt/vol	Method	Hot Plate Number	Comments
BF62206-B1H	AQ	12	SD	SD	UA	UA	3005	HB#1	
-BS1		12			6E04037	0.25			
-BSD1		12	↓		6E04037	0.25			
-BS2		12	↓		4F22021	2.0			
-BSD2		12	SD		6F22021	2.0			
0606316-04		12	1.0		UA	UA			
0606323-01		12	SD						
0606328-01		12	5.0						
0606341-01dia		12	SD						
-02dia		12							
-03dia		12							
-01		12							
-02		12							
-03		12							
0606316-01		12							
BF62206-d1H		12	↓		UA	UA			
-WS1		12	↓		6E04037	0.25			
-WS3	AQ	12	SD	SD	6F22021	2.0	3005	HB#1	

MATRIX KEY: AQ = AQUEOUS, S = SOIL, O = OIL, F = FILTER, D = SLUDGE

ESS LABORATORY  
METALS PREP LOGBOOK

ANALYST: 8  
 DATE: 6/22/06  
 TIME: 1:45  
 Batch ID: BFG62206  
BFG2207

HNO<sub>3</sub> Reagent - AR#: 660501B  
 1:1 HCl Reagent- WR#: 660616C  
 1:1 HNO<sub>3</sub> Reagent- WR#: UA  
 H<sub>2</sub>O<sub>2</sub> Reagent- AR#: UA

Hot Plate Temp (°C)  
 HB#1 95°  
~~UA~~  
~~A~~

Sample ID	matrix	pH	Initial wgt/vol	Final wgt/vol	QC ID/Lot #	QC wgt/vol	Method	Hot Plate Number	Comments
<del>66063416-02</del>	AQ	12	SD	SD	UA	UA	3005	HB#1	
<del>03</del>		12							
<del>04</del>		12							
<del>05</del>		12							
<del>06</del>		12							
<del>07</del>		12							
<del>08</del>		12							
<del>09</del>		12							
<del>10</del>		12							
<del>11</del>		12							
<del>BFG62206-02</del>		12			UA	UA			
<del>WSZ</del>		12			6E04037	0.25			
<del>WSZ</del>		12			6F22021	2.0			
BFG62207-BM		12			UA	UA			
<del>BSI</del>		12			6E04037	0.25			
<del>BSD1</del>		12			6E04037	0.25			
<del>BSZ</del>		12			6F22021	2.0			
<del>BSZ</del>		12	SD	SD	6F22021	2.0	3005	HB#1	

ESS LABORATORY  
METALS PREP LOGBOOK

ANALYST: *df*  
 DATE: *6/22/06*  
 TIME: *1045*  
 Batch ID: *PF67207*

HNO<sub>3</sub> Reagent - AR#: *060001B*  
 1:1 HCl Reagent- WR#: *060616C*  
 1:1 HNO<sub>3</sub> Reagent- WR#: *MA*  
 H<sub>2</sub>O<sub>2</sub> Reagent- AR#: *MA*

Hot Plate Temp (°C)  
*HB#3 95*  
*MA*

Sample ID	matrix	pH	Initial wt/vol	Final wt/vol	QC ID/Lot #	QC wt/vol	Method	Hot Plate Number	Comments
<del>0606346-12</del>	AQ	12	SD	SD	MA	MA	3005	HB#3	
<del>-13</del>		12							
<del>-14</del>		12							
<del>-15</del>		12							
<del>-01010</del>		12							
<del>-02010</del>		12							
<del>-03010</del>		12							
<del>-04010</del>		12							
<del>-05010</del>		12							
<del>-06010</del>		12							
<del>PF67207-12</del>		12			MA	MA			
<del>-0451</del>		12			6E04037	0.25			
<del>-053</del>		12			6E03021	2.0			
<del>0606346-03010</del>		12			MA	MA			
<del>-08010</del>		12							
<del>-09010</del>		12							
<del>-10010</del>		12							
<del>-11010</del>	AQ	12	SD	SD	MA	MA	3005	HB#3	

ESS LABORATORY  
METALS PREP LOGBOOK

ANALYST: RF  
 DATE: 6/22/06  
 TIME: 10:15  
 Batch ID: BFG62207  
BFG62209

HNO<sub>3</sub> Reagent -  
 1:1 HCl Reagent-  
 1:1 HNO<sub>3</sub> Reagent-  
 H<sub>2</sub>O<sub>2</sub> Reagent-

AR#: 060801B  
 WR#: 060610C  
 WR#: UA  
 AR#: UA

Hot Plate Temp (°C)  
95  
UA

Sample ID	matrix	pH	Initial wg/vol	Final wg/vol	QC ID/Lot #	QC wg/vol	Method	Hot Plate Number	Comments
<u>060801B</u>	<u>AQ</u>	<u>12</u>	<u>SD</u>	<u>SD</u>	<u>UA</u>	<u>UA</u>	<u>3005</u>	<u>HB#3</u>	
<u>-13d</u>		<u>12</u>							
<u>-14d</u>		<u>12</u>							
<u>-15d</u>		<u>12</u>							
<u>BFG62207</u>		<u>12</u>			<u>UA</u>	<u>UA</u>			
<u>BFG62209</u>		<u>12</u>			<u>6E04037</u>	<u>6.25</u>			
<u>867716</u>		<u>12</u>			<u>6E22021</u>	<u>2.0</u>			
<u>-MSZ</u>		<u>12</u>			<u>UA</u>	<u>UA</u>			
<u>-MSY</u>		<u>12</u>			<u>UA</u>	<u>UA</u>			
<u>BFG62209-BLK</u>		<u>12</u>			<u>UA</u>	<u>UA</u>			<u>BFG62014-BLK</u>
<u>-B51</u>		<u>12</u>			<u>6E04037</u>	<u>0.25</u>			
<u>-B5D1</u>		<u>12</u>			<u>6E04037</u>	<u>0.25</u>			
<u>060801B-OUT</u>		<u>12</u>			<u>UA</u>	<u>UA</u>			
<u>-02T</u>		<u>12</u>							
<u>-03T</u>		<u>12</u>							
<u>-04T</u>		<u>12</u>							
<u>-05T</u>		<u>12</u>							
<u>-06T</u>		<u>12</u>							
<u>-07T</u>		<u>12</u>							
<u>BFG62209-BLK</u>	<u>AQ</u>	<u>12</u>	<u>SD</u>	<u>SD</u>	<u>UA</u>	<u>UA</u>	<u>3005</u>	<u>HB#3</u>	<u>BFG62014-BLK</u>

# ESS Laboratory

## Mercury Aqueous Prep Logbook

Analyst: JP  
 Date: 6/22/06  
 Batch ID: BF62210

Reagent IDs:

H<sub>2</sub>SO<sub>4</sub> AR660120A  
HNO<sub>3</sub> AR660501D  
KMnO<sub>4</sub> WL6601202C

K<sub>2</sub>S<sub>2</sub>O<sub>8</sub> WL660519F  
NaCl-NH<sub>2</sub>OH\*HCl WL660533B  
 Cal/Spk Std ID\*: BF20020  
 ICV std ID\*\*: BF20021

Sample ID #	pH	Sample Init Vol (ml)	Cal/ ICV/ Spk Vol (ml)	Comments	Final Vol (ml)	Bath #	Temp (°C)	Time in	Time out
BF62210-BIK1	12	20	NA		40	HB#1	95°	1600	1800
-BS1	12	↓	0.12		↓	↓	↓	↓	↓
-BSD1	12	20	0.12		↓	↓	↓	↓	↓
0606316-01	12	1.0	NA		↓	↓	↓	↓	↓
0606334-01	12	20	↓		↓	↓	↓	↓	↓
-02	12	↓	↓		↓	↓	↓	↓	↓
-03	12	↓	↓		↓	↓	↓	↓	↓
0606341-01dis	12	↓	↓		↓	↓	↓	↓	↓
-02dis	12	↓	↓		↓	↓	↓	↓	↓
-03dis	12	↓	↓		↓	↓	↓	↓	↓
-01	12	↓	↓		↓	↓	↓	↓	↓
-02	12	↓	↓		↓	↓	↓	↓	↓
-03	12	↓	↓		↓	↓	↓	↓	↓
BF62210 dup	12	↓	NA		↓	↓	↓	↓	↓
-MS1	12	↓	0.12		↓	↓	↓	↓	↓
-MSD1	12	↓	0.12		↓	↓	↓	↓	↓
0606346-01	12	↓	NA		↓	↓	↓	↓	↓
-02	12	↓	↓		↓	↓	↓	↓	↓
-03	12	↓	↓		↓	↓	↓	↓	↓
-04	12	↓	↓		↓	↓	↓	↓	↓
-05	12	↓	↓		↓	↓	↓	↓	↓
-06	12	20	NA		40	HB#1	95°	1600	1800

\* Calibration standards are prepared daily at 0.0, 0.5, 1.0, 3.0, and 5.0 ppb. See SOP for preparation instructions.

\*\*ICV is prepared daily at a concentration of 2.0 ppb. See SOP for preparation instructions.

# ESS Laboratory

## Mercury Aqueous Prep Logbook

Analyst: *JP*  
 Date: *6/22/06*  
 Batch ID: *BF62210*  
           *BF62211*

Reagent IDs:

$H_2SO_4$  *AR060120A*  
 $HNO_3$  *AR060501D*  
 $KMnO_4$  *W060602C*

$K_2S_2O_8$  *W060519F*  
 $NaCl-NH_2OH \cdot HCl$  *W060333B*  
 Cal/Spk Std ID\*: *CF20020*  
 ICV std ID\*\*: *CF20021*

Sample ID #	pH	Sample Init Vol (ml)	Cal/ ICV/ Spk Vol (ml)	Comments	Final Vol (ml)	Bath #	Temp (°C)	Time in	Time out
<i>0606346-07</i>	<i>12</i>	<i>20</i>	<i>NA</i>		<i>40</i>	<i>HP#1</i>	<i>95°</i>	<i>1600</i>	<i>1800</i>
<i>-08</i>	<i>12</i>								
<i>-09</i>	<i>12</i>								
<i>-10</i>	<i>12</i>								
<i>BF62210-D12</i>	<i>12</i>		<i>1M</i>						
<i>-MSZ</i>	<i>12</i>		<i>0.12</i>						
<i>-MSDZ</i>	<i>12</i>		<i>0.12</i>						
<i>BF62211-B1A1</i>	<i>12</i>		<i>NA</i>						
<i>-B51</i>	<i>12</i>		<i>0.12</i>						
<i>-B5D1</i>	<i>12</i>		<i>0.12</i>						
<i>0606346-11</i>	<i>12</i>		<i>NA</i>						
<i>-12</i>	<i>12</i>								
<i>-13</i>	<i>12</i>								
<i>-14</i>	<i>12</i>								
<i>-15</i>	<i>12</i>								
<i>-01dis</i>	<i>12</i>								
<i>-02dis</i>	<i>12</i>								
<i>-03dis</i>	<i>12</i>								
<i>-04dis</i>	<i>12</i>								
<i>-05dis</i>	<i>12</i>								
<i>BF62211-D11</i>	<i>12</i>		<i>NA</i>						
<i>-MS1</i>	<i>12</i>	<i>20</i>	<i>0.12</i>		<i>40</i>	<i>HP#5</i>	<i>95°</i>	<i>1600</i>	<i>1800</i>

*HP#1*  
*HP#2*  
*HP#3*

\* Calibration standards are prepared daily at 0.0, 0.5, 1.0, 3.0, and 5.0 ppb. See SOP for preparation instructions.

\*\*ICV is prepared daily at a concentration of 2.0 ppb. See SOP for preparation instructions.

# ESS Laboratory

## Mercury Aqueous Prep Logbook

Analyst: JP  
 Date: 6/22/06  
 Batch ID: BF62211  
BF62215

Reagent IDs:

H<sub>2</sub>SO<sub>4</sub> A1060120A  
HNO<sub>3</sub> A1060501D  
KMnO<sub>4</sub> W1060607C

K<sub>2</sub>S<sub>2</sub>O<sub>8</sub> W1060519F  
NaCl-NH<sub>2</sub>OH\*HCl W1060503B  
Cal/Spk Std ID\*: 6F20020  
ICV std ID\*\*: 6F20021

Sample ID #	pH	Sample Init Vol (ml)	Cal/ ICV/ Spk Vol (ml)	Comments	Final Vol (ml)	Bath #	Temp (°C)	Time in	Time out
BF62211-MSD1	12	20	0.12		40	#3	95°	1600	1800
0606346-06dis	12	↓	NA		↓	↓	↓	↓	↓
-07dis	12	↓	↓		↓	↓	↓	↓	↓
-08dis	12	↓	↓		↓	↓	↓	↓	↓
-09dis	12	↓	↓		↓	↓	↓	↓	↓
-10dis	12	↓	↓		↓	↓	↓	↓	↓
-11dis	12	↓	↓		↓	↓	↓	↓	↓
-12dis	12	↓	↓		↓	↓	↓	↓	↓
13dis	12	↓	↓		↓	↓	↓	↓	↓
14dis	12	↓	↓		↓	↓	↓	↓	↓
15dis	12	↓	↓		↓	↓	↓	↓	↓
BF62211-dp2	12	↓	NA		↓	↓	↓	↓	↓
-MSZ	12	↓	0.12		↓	↓	↓	↓	↓
-MSDZ	12	↓	0.12		↓	↓	↓	↓	↓
BF62215-BMI	12	↓	NA		↓	↓	↓	↓	↓
BF62211	12	↓	NA		↓	↓	↓	↓	↓
612206 -B51	12	↓	0.12		↓	↓	↓	↓	↓
-B5D1	12	↓	0.12		↓	↓	↓	↓	↓
0606310-01T	12	↓	NA		↓	↓	↓	↓	↓
-02T	12	↓	↓		↓	↓	↓	↓	↓
-03T	12	↓	↓		↓	↓	↓	↓	↓
-04T	12	↓	↓		↓	↓	↓	↓	↓
-05T	12	20	NA		40	#3	95°	1600	1800

\* Calibration standards are prepared daily at 0.0, 0.5, 1.0, 3.0, and 5.0 ppb. See SOP for preparation instructions.

\*\*ICV is prepared daily at a concentration of 2.0 ppb. See SOP for preparation instructions.

# Volatile Organics Data Package



# Volatile Organics Sample Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW10  
Date Sampled: 06/21/06 11:45  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-01  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	06/28/06
1,1,1-Trichloroethane	ND	ug/L	1.0	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	06/28/06
1,1,2-Trichloroethane	ND	ug/L	1.0	1	06/28/06
1,1-Dichloroethane	ND	ug/L	1.0	1	06/28/06
1,1-Dichloroethene	ND	ug/L	1.0	1	06/28/06
1,1-Dichloropropene	ND	ug/L	2.0	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2,3-Trichloropropane	ND	ug/L	1.0	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0	1	06/28/06
1,2-Dibromoethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2-Dichloroethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,4-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,4-Dioxane - Screen	ND	ug/L	500	1	06/28/06
1-Chlorohexane	ND	ug/L	1.0	1	06/28/06
2,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
2-Butanone	ND	ug/L	25.0	1	06/28/06
2-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
2-Hexanone	ND	ug/L	10.0	1	06/28/06
4-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
4-Isopropyltoluene	ND	ug/L	1.0	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/L	25.0	1	06/28/06
Acetone	ND	ug/L	25.0	1	06/28/06
Benzene	ND	ug/L	1.0	1	06/28/06
Bromobenzene	ND	ug/L	2.0	1	06/28/06
Bromochloromethane	ND	ug/L	1.0	1	06/28/06
Bromodichloromethane	ND	ug/L	1.0	1	06/28/06
Bromoform	ND	ug/L	1.0	1	06/28/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW10  
Date Sampled: 06/21/06 11:45  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-01  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Bromomethane	ND	ug/L	2.0	1	06/28/06
Carbon Disulfide	ND	ug/L	1.0	1	06/28/06
Carbon Tetrachloride	ND	ug/L	1.0	1	06/28/06
Chlorobenzene	ND	ug/L	1.0	1	06/28/06
Chloroethane	ND	ug/L	2.0	1	06/28/06
Chloroform	ND	ug/L	1.0	1	06/28/06
Chloromethane	ND	ug/L	2.0	1	06/28/06
<b>cis-1,2-Dichloroethene</b>	<b>2.2</b>	ug/L	1.0	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
Dibromochloromethane	ND	ug/L	1.0	1	06/28/06
Dibromomethane	ND	ug/L	1.0	1	06/28/06
Dichlorodifluoromethane	ND	ug/L	2.0	1	06/28/06
Diethyl Ether	ND	ug/L	1.0	1	06/28/06
Di-isopropyl ether	ND	ug/L	1.0	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/L	1.0	1	06/28/06
Ethylbenzene	ND	ug/L	1.0	1	06/28/06
Hexachlorobutadiene	ND	ug/L	0.6	1	06/28/06
Isopropylbenzene	ND	ug/L	1.0	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/L	1.0	1	06/28/06
Methylene Chloride	ND	ug/L	5.0	1	06/28/06
Naphthalene	ND	ug/L	1.0	1	06/28/06
n-Butylbenzene	ND	ug/L	1.0	1	06/28/06
n-Propylbenzene	ND	ug/L	1.0	1	06/28/06
sec-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Styrene	ND	ug/L	1.0	1	06/28/06
tert-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/L	1.0	1	06/28/06
Tetrachloroethene	ND	ug/L	1.0	1	06/28/06
Tetrahydrofuran	ND	ug/L	5.0	1	06/28/06
Toluene	ND	ug/L	1.0	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
Trichloroethene	ND	ug/L	1.0	1	06/28/06
Trichlorofluoromethane	ND	ug/L	2.0	1	06/28/06
Vinyl Acetate	ND	ug/L	5.0	1	06/28/06
Vinyl Chloride	ND	ug/L	6.1	1	06/28/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW10  
Date Sampled: 06/21/06 11:45  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-01  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Xylene O	ND	ug/L	1.0	1	06/28/06
Xylene P,M	ND	ug/L	2.0	1	06/28/06
Xylenes (Total)	ND	ug/L	3.0		06/28/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	96 %		70-130
Surrogate: 4-Bromofluorobenzene	98 %		70-130
Surrogate: Dibromofluoromethane	100 %		70-130
Surrogate: Toluene-d8	98 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW11  
Date Sampled: 06/21/06 12:53  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-02  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	06/28/06
1,1,1-Trichloroethane	ND	ug/L	1.0	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	06/28/06
1,1,2-Trichloroethane	ND	ug/L	1.0	1	06/28/06
1,1-Dichloroethane	ND	ug/L	1.0	1	06/28/06
1,1-Dichloroethene	ND	ug/L	1.0	1	06/28/06
1,1-Dichloropropene	ND	ug/L	2.0	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2,3-Trichloropropane	ND	ug/L	1.0	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0	1	06/28/06
1,2-Dibromoethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2-Dichloroethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,4-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,4-Dioxane - Screen	ND	ug/L	500	1	06/28/06
1-Chlorohexane	ND	ug/L	1.0	1	06/28/06
2,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
2-Butanone	ND	ug/L	25.0	1	06/28/06
2-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
2-Hexanone	ND	ug/L	10.0	1	06/28/06
4-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
4-Isopropyltoluene	ND	ug/L	1.0	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/L	25.0	1	06/28/06
Acetone	ND	ug/L	25.0	1	06/28/06
Benzene	ND	ug/L	1.0	1	06/28/06
Bromobenzene	ND	ug/L	2.0	1	06/28/06
Bromochloromethane	ND	ug/L	1.0	1	06/28/06
Bromodichloromethane	ND	ug/L	1.0	1	06/28/06
Bromoform	ND	ug/L	1.0	1	06/28/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW11  
Date Sampled: 06/21/06 12:53  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-02  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Bromomethane	ND	ug/L	2.0	1	06/28/06
Carbon Disulfide	ND	ug/L	1.0	1	06/28/06
Carbon Tetrachloride	ND	ug/L	1.0	1	06/28/06
Chlorobenzene	ND	ug/L	1.0	1	06/28/06
Chloroethane	ND	ug/L	2.0	1	06/28/06
Chloroform	ND	ug/L	1.0	1	06/28/06
Chloromethane	ND	ug/L	2.0	1	06/28/06
<b>cis-1,2-Dichloroethene</b>	<b>10.8</b>	ug/L	1.0	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
Dibromochloromethane	ND	ug/L	1.0	1	06/28/06
Dibromomethane	ND	ug/L	1.0	1	06/28/06
Dichlorodifluoromethane	ND	ug/L	2.0	1	06/28/06
Diethyl Ether	ND	ug/L	1.0	1	06/28/06
Di-isopropyl ether	ND	ug/L	1.0	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/L	1.0	1	06/28/06
Ethylbenzene	ND	ug/L	1.0	1	06/28/06
Hexachlorobutadiene	ND	ug/L	0.6	1	06/28/06
Isopropylbenzene	ND	ug/L	1.0	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/L	1.0	1	06/28/06
Methylene Chloride	ND	ug/L	5.0	1	06/28/06
Naphthalene	ND	ug/L	1.0	1	06/28/06
n-Butylbenzene	ND	ug/L	1.0	1	06/28/06
n-Propylbenzene	ND	ug/L	1.0	1	06/28/06
sec-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Styrene	ND	ug/L	1.0	1	06/28/06
tert-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/L	1.0	1	06/28/06
Tetrachloroethene	ND	ug/L	1.0	1	06/28/06
Tetrahydrofuran	ND	ug/L	5.0	1	06/28/06
Toluene	ND	ug/L	1.0	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
<b>Trichloroethene</b>	<b>2.3</b>	ug/L	1.0	1	06/28/06
Trichlorofluoromethane	ND	ug/L	2.0	1	06/28/06
Vinyl Acetate	ND	ug/L	5.0	1	06/28/06
Vinyl Chloride	ND	ug/L	<b>1614</b>	1	06/28/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW11  
Date Sampled: 06/21/06 12:53  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-02  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Xylene O	ND	ug/L	1.0	1	06/28/06
Xylene P,M	ND	ug/L	2.0	1	06/28/06
Xylenes (Total)	ND	ug/L	3.0		06/28/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	95 %		70-130
Surrogate: 4-Bromofluorobenzene	98 %		70-130
Surrogate: Dibromofluoromethane	100 %		70-130
Surrogate: Toluene-d8	98 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW19  
Date Sampled: 06/21/06 13:30  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-03  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	06/28/06
<b>1,1,1-Trichloroethane</b>	<b>1.4</b>	ug/L	1.0	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	06/28/06
1,1,2-Trichloroethane	ND	ug/L	1.0	1	06/28/06
<b>1,1-Dichloroethane</b>	<b>1.0</b>	ug/L	1.0	1	06/28/06
1,1-Dichloroethene	ND	ug/L	1.0	1	06/28/06
1,1-Dichloropropene	ND	ug/L	2.0	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2,3-Trichloropropane	ND	ug/L	1.0	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0	1	06/28/06
1,2-Dibromoethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2-Dichloroethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,4-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,4-Dioxane - Screen	ND	ug/L	500	1	06/28/06
1-Chlorohexane	ND	ug/L	1.0	1	06/28/06
2,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
2-Butanone	ND	ug/L	25.0	1	06/28/06
2-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
2-Hexanone	ND	ug/L	10.0	1	06/28/06
4-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
4-Isopropyltoluene	ND	ug/L	1.0	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/L	25.0	1	06/28/06
Acetone	ND	ug/L	25.0	1	06/28/06
Benzene	ND	ug/L	1.0	1	06/28/06
Bromobenzene	ND	ug/L	2.0	1	06/28/06
Bromochloromethane	ND	ug/L	1.0	1	06/28/06
Bromodichloromethane	ND	ug/L	1.0	1	06/28/06
Bromoform	ND	ug/L	1.0	1	06/28/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW19  
Date Sampled: 06/21/06 13:30  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-03  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Bromomethane	ND	ug/L	2.0	1	06/28/06
Carbon Disulfide	ND	ug/L	1.0	1	06/28/06
Carbon Tetrachloride	ND	ug/L	1.0	1	06/28/06
Chlorobenzene	ND	ug/L	1.0	1	06/28/06
Chloroethane	ND	ug/L	2.0	1	06/28/06
Chloroform	ND	ug/L	1.0	1	06/28/06
Chloromethane	ND	ug/L	2.0	1	06/28/06
<b>cis-1,2-Dichloroethene</b>	<b>6.2</b>	ug/L	1.0	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
Dibromochloromethane	ND	ug/L	1.0	1	06/28/06
Dibromomethane	ND	ug/L	1.0	1	06/28/06
Dichlorodifluoromethane	ND	ug/L	2.0	1	06/28/06
Diethyl Ether	ND	ug/L	1.0	1	06/28/06
Di-isopropyl ether	ND	ug/L	1.0	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/L	1.0	1	06/28/06
Ethylbenzene	ND	ug/L	1.0	1	06/28/06
Hexachlorobutadiene	ND	ug/L	0.6	1	06/28/06
Isopropylbenzene	ND	ug/L	1.0	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/L	1.0	1	06/28/06
Methylene Chloride	ND	ug/L	5.0	1	06/28/06
Naphthalene	ND	ug/L	1.0	1	06/28/06
n-Butylbenzene	ND	ug/L	1.0	1	06/28/06
n-Propylbenzene	ND	ug/L	1.0	1	06/28/06
sec-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Styrene	ND	ug/L	1.0	1	06/28/06
tert-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/L	1.0	1	06/28/06
<b>Tetrachloroethene</b>	<b>1.2</b>	ug/L	1.0	1	06/28/06
Tetrahydrofuran	ND	ug/L	5.0	1	06/28/06
<b>Toluene</b>	<b>3.4</b>	ug/L	1.0	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
<b>Trichloroethene</b>	<b>2.9</b>	ug/L	1.0	1	06/28/06
Trichlorofluoromethane	ND	ug/L	2.0	1	06/28/06
Vinyl Acetate	ND	ug/L	5.0	1	06/28/06
<b>Vinyl Chloride</b>	<b>2.1</b>	ug/L	1.0	1	06/28/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW19  
Date Sampled: 06/21/06 13:30  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-03  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Xylene O	ND	ug/L	1.0	1	06/28/06
Xylene P,M	2.0	ug/L	2.0	1	06/28/06
Xylenes (Total)	ND	ug/L	3.0		06/28/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	96 %		70-130
Surrogate: 4-Bromofluorobenzene	98 %		70-130
Surrogate: Dibromofluoromethane	100 %		70-130
Surrogate: Toluene-d8	98 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW12  
Date Sampled: 06/21/06 14:16  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-05  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	06/28/06
1,1,1-Trichloroethane	ND	ug/L	1.0	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	06/28/06
1,1,2-Trichloroethane	ND	ug/L	1.0	1	06/28/06
1,1-Dichloroethane	ND	ug/L	1.0	1	06/28/06
1,1-Dichloroethene	ND	ug/L	1.0	1	06/28/06
1,1-Dichloropropene	ND	ug/L	2.0	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2,3-Trichloropropane	ND	ug/L	1.0	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0	1	06/28/06
1,2-Dibromoethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2-Dichloroethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,4-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,4-Dioxane - Screen	ND	ug/L	500	1	06/28/06
1-Chlorohexane	ND	ug/L	1.0	1	06/28/06
2,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
2-Butanone	ND	ug/L	25.0	1	06/28/06
2-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
2-Hexanone	ND	ug/L	10.0	1	06/28/06
4-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
4-Isopropyltoluene	ND	ug/L	1.0	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/L	25.0	1	06/28/06
Acetone	ND	ug/L	25.0	1	06/28/06
Benzene	ND	ug/L	1.0	1	06/28/06
Bromobenzene	ND	ug/L	2.0	1	06/28/06
Bromochloromethane	ND	ug/L	1.0	1	06/28/06
Bromodichloromethane	ND	ug/L	1.0	1	06/28/06
Bromoform	ND	ug/L	1.0	1	06/28/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW12  
Date Sampled: 06/21/06 14:16  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-05  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Bromomethane	ND	ug/L	2.0	1	06/28/06
Carbon Disulfide	ND	ug/L	1.0	1	06/28/06
Carbon Tetrachloride	ND	ug/L	1.0	1	06/28/06
Chlorobenzene	ND	ug/L	1.0	1	06/28/06
Chloroethane	ND	ug/L	2.0	1	06/28/06
Chloroform	ND	ug/L	1.0	1	06/28/06
Chloromethane	ND	ug/L	2.0	1	06/28/06
<b>cis-1,2-Dichloroethene</b>	<b>1.5</b>	ug/L	1.0	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
Dibromochloromethane	ND	ug/L	1.0	1	06/28/06
Dibromomethane	ND	ug/L	1.0	1	06/28/06
Dichlorodifluoromethane	ND	ug/L	2.0	1	06/28/06
Diethyl Ether	ND	ug/L	1.0	1	06/28/06
Di-isopropyl ether	ND	ug/L	1.0	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/L	1.0	1	06/28/06
Ethylbenzene	ND	ug/L	1.0	1	06/28/06
Hexachlorobutadiene	ND	ug/L	0.6	1	06/28/06
Isopropylbenzene	ND	ug/L	1.0	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/L	1.0	1	06/28/06
Methylene Chloride	ND	ug/L	5.0	1	06/28/06
Naphthalene	ND	ug/L	1.0	1	06/28/06
n-Butylbenzene	ND	ug/L	1.0	1	06/28/06
n-Propylbenzene	ND	ug/L	1.0	1	06/28/06
sec-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Styrene	ND	ug/L	1.0	1	06/28/06
tert-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/L	1.0	1	06/28/06
Tetrachloroethene	ND	ug/L	1.0	1	06/28/06
Tetrahydrofuran	ND	ug/L	5.0	1	06/28/06
Toluene	ND	ug/L	1.0	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
Trichloroethene	ND	ug/L	1.0	1	06/28/06
Trichlorofluoromethane	ND	ug/L	2.0	1	06/28/06
Vinyl Acetate	ND	ug/L	5.0	1	06/28/06
Vinyl Chloride	ND	ug/L	<b>620</b>	1	06/28/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW12  
Date Sampled: 06/21/06 14:16  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-05  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Xylene O	ND	ug/L	1.0	1	06/28/06
Xylene P,M	ND	ug/L	2.0	1	06/28/06
Xylenes (Total)	ND	ug/L	3.0		06/28/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	95 %		70-130
Surrogate: 4-Bromofluorobenzene	98 %		70-130
Surrogate: Dibromofluoromethane	100 %		70-130
Surrogate: Toluene-d8	98 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW16  
Date Sampled: 06/21/06 14:29  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-06  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	06/28/06
<b>1,1,1-Trichloroethane</b>	<b>1.6</b>	ug/L	1.0	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	06/28/06
1,1,2-Trichloroethane	ND	ug/L	1.0	1	06/28/06
<b>1,1-Dichloroethane</b>	<b>1.1</b>	ug/L	1.0	1	06/28/06
1,1-Dichloroethene	ND	ug/L	1.0	1	06/28/06
1,1-Dichloropropene	ND	ug/L	2.0	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2,3-Trichloropropane	ND	ug/L	1.0	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
<b>1,2,4-Trimethylbenzene</b>	<b>1.0</b>	ug/L	1.0	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0	1	06/28/06
1,2-Dibromoethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2-Dichloroethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,4-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,4-Dioxane - Screen	ND	ug/L	500	1	06/28/06
1-Chlorohexane	ND	ug/L	1.0	1	06/28/06
2,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
2-Butanone	ND	ug/L	25.0	1	06/28/06
2-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
2-Hexanone	ND	ug/L	10.0	1	06/28/06
4-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
4-Isopropyltoluene	ND	ug/L	1.0	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/L	25.0	1	06/28/06
Acetone	ND	ug/L	25.0	1	06/28/06
Benzene	ND	ug/L	1.0	1	06/28/06
Bromobenzene	ND	ug/L	2.0	1	06/28/06
Bromochloromethane	ND	ug/L	1.0	1	06/28/06
Bromodichloromethane	ND	ug/L	1.0	1	06/28/06
Bromoform	ND	ug/L	1.0	1	06/28/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW16  
Date Sampled: 06/21/06 14:29  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-06  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Bromomethane	ND	ug/L	2.0	1	06/28/06
Carbon Disulfide	ND	ug/L	1.0	1	06/28/06
Carbon Tetrachloride	ND	ug/L	1.0	1	06/28/06
Chlorobenzene	ND	ug/L	1.0	1	06/28/06
Chloroethane	ND	ug/L	2.0	1	06/28/06
Chloroform	ND	ug/L	1.0	1	06/28/06
Chloromethane	ND	ug/L	2.0	1	06/28/06
<b>cis-1,2-Dichloroethene</b>	<b>4.5</b>	ug/L	1.0	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
Dibromochloromethane	ND	ug/L	1.0	1	06/28/06
Dibromomethane	ND	ug/L	1.0	1	06/28/06
Dichlorodifluoromethane	ND	ug/L	2.0	1	06/28/06
Diethyl Ether	ND	ug/L	1.0	1	06/28/06
Di-isopropyl ether	ND	ug/L	1.0	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/L	1.0	1	06/28/06
<b>Ethylbenzene</b>	<b>1.0</b>	ug/L	1.0	1	06/28/06
Hexachlorobutadiene	ND	ug/L	0.6	1	06/28/06
Isopropylbenzene	ND	ug/L	1.0	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/L	1.0	1	06/28/06
Methylene Chloride	ND	ug/L	5.0	1	06/28/06
Naphthalene	ND	ug/L	1.0	1	06/28/06
n-Butylbenzene	ND	ug/L	1.0	1	06/28/06
n-Propylbenzene	ND	ug/L	1.0	1	06/28/06
sec-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Styrene	ND	ug/L	1.0	1	06/28/06
tert-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/L	1.0	1	06/28/06
Tetrachloroethene	ND	ug/L	1.0	1	06/28/06
Tetrahydrofuran	ND	ug/L	5.0	1	06/28/06
<b>Toluene</b>	<b>4.3</b>	ug/L	1.0	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
<b>Trichloroethene</b>	<b>1.0</b>	ug/L	1.0	1	06/28/06
Trichlorofluoromethane	ND	ug/L	2.0	1	06/28/06
Vinyl Acetate	ND	ug/L	5.0	1	06/28/06
<b>Vinyl Chloride</b>	<b>1.5</b>	ug/L	1.0	1	06/28/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW16  
Date Sampled: 06/21/06 14:29  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-06  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Xylene O	1.1	ug/L	1.0	1	06/28/06
Xylene P,M	2.6	ug/L	2.0	1	06/28/06
Xylenes (Total)	3.7	ug/L	3.0		06/28/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	96 %		70-130
Surrogate: 4-Bromofluorobenzene	98 %		70-130
Surrogate: Dibromofluoromethane	100 %		70-130
Surrogate: Toluene-d8	97 %		70-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW18  
Date Sampled: 06/21/06 14:44  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-07  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	06/28/06
<b>1,1,1-Trichloroethane</b>	<b>1.3</b>	ug/L	1.0	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	06/28/06
1,1,2-Trichloroethane	ND	ug/L	1.0	1	06/28/06
1,1-Dichloroethane	ND	ug/L	1.0	1	06/28/06
1,1-Dichloroethene	ND	ug/L	1.0	1	06/28/06
1,1-Dichloropropene	ND	ug/L	2.0	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2,3-Trichloropropane	ND	ug/L	1.0	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0	1	06/28/06
1,2-Dibromoethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2-Dichloroethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,4-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,4-Dioxane - Screen	ND	ug/L	500	1	06/28/06
1-Chlorohexane	ND	ug/L	1.0	1	06/28/06
2,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
2-Butanone	ND	ug/L	25.0	1	06/28/06
2-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
2-Hexanone	ND	ug/L	10.0	1	06/28/06
4-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
4-Isopropyltoluene	ND	ug/L	1.0	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/L	25.0	1	06/28/06
Acetone	ND	ug/L	25.0	1	06/28/06
Benzene	ND	ug/L	1.0	1	06/28/06
Bromobenzene	ND	ug/L	2.0	1	06/28/06
Bromochloromethane	ND	ug/L	1.0	1	06/28/06
Bromodichloromethane	ND	ug/L	1.0	1	06/28/06
Bromoform	ND	ug/L	1.0	1	06/28/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW18  
Date Sampled: 06/21/06 14:44  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-07  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Bromomethane	ND	ug/L	2.0	1	06/28/06
Carbon Disulfide	ND	ug/L	1.0	1	06/28/06
Carbon Tetrachloride	ND	ug/L	1.0	1	06/28/06
Chlorobenzene	ND	ug/L	1.0	1	06/28/06
Chloroethane	ND	ug/L	2.0	1	06/28/06
Chloroform	ND	ug/L	1.0	1	06/28/06
Chloromethane	ND	ug/L	2.0	1	06/28/06
<b>cis-1,2-Dichloroethene</b>	<b>4.8</b>	ug/L	1.0	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
Dibromochloromethane	ND	ug/L	1.0	1	06/28/06
Dibromomethane	ND	ug/L	1.0	1	06/28/06
Dichlorodifluoromethane	ND	ug/L	2.0	1	06/28/06
Diethyl Ether	ND	ug/L	1.0	1	06/28/06
Di-isopropyl ether	ND	ug/L	1.0	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/L	1.0	1	06/28/06
Ethylbenzene	ND	ug/L	1.0	1	06/28/06
Hexachlorobutadiene	ND	ug/L	0.6	1	06/28/06
Isopropylbenzene	ND	ug/L	1.0	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/L	1.0	1	06/28/06
Methylene Chloride	ND	ug/L	5.0	1	06/28/06
Naphthalene	ND	ug/L	1.0	1	06/28/06
n-Butylbenzene	ND	ug/L	1.0	1	06/28/06
n-Propylbenzene	ND	ug/L	1.0	1	06/28/06
sec-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Styrene	ND	ug/L	1.0	1	06/28/06
tert-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/L	1.0	1	06/28/06
Tetrachloroethene	ND	ug/L	1.0	1	06/28/06
Tetrahydrofuran	ND	ug/L	5.0	1	06/28/06
<b>Toluene</b>	<b>2.4</b>	ug/L	1.0	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
<b>Trichloroethene</b>	<b>1.5</b>	ug/L	1.0	1	06/28/06
Trichlorofluoromethane	ND	ug/L	2.0	1	06/28/06
Vinyl Acetate	ND	ug/L	5.0	1	06/28/06
<b>Vinyl Chloride</b>	<b>1.3</b>	ug/L	<b>1.626</b>	1	06/28/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW18  
Date Sampled: 06/21/06 14:44  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-07  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Xylene O	ND	ug/L	1.0	1	06/28/06
Xylene P,M	ND	ug/L	2.0	1	06/28/06
Xylenes (Total)	ND	ug/L	3.0		06/28/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	96 %		70-130
Surrogate: 4-Bromofluorobenzene	98 %		70-130
Surrogate: Dibromofluoromethane	100 %		70-130
Surrogate: Toluene-d8	98 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW21  
Date Sampled: 06/21/06 14:54  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-08  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	06/28/06
<b>1,1,1-Trichloroethane</b>	<b>1.2</b>	ug/L	1.0	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	06/28/06
1,1,2-Trichloroethane	ND	ug/L	1.0	1	06/28/06
1,1-Dichloroethane	ND	ug/L	1.0	1	06/28/06
1,1-Dichloroethene	ND	ug/L	1.0	1	06/28/06
1,1-Dichloropropene	ND	ug/L	2.0	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2,3-Trichloropropane	ND	ug/L	1.0	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0	1	06/28/06
1,2-Dibromoethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2-Dichloroethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,4-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,4-Dioxane - Screen	ND	ug/L	500	1	06/28/06
1-Chlorohexane	ND	ug/L	1.0	1	06/28/06
2,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
2-Butanone	ND	ug/L	25.0	1	06/28/06
2-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
2-Hexanone	ND	ug/L	10.0	1	06/28/06
4-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
4-Isopropyltoluene	ND	ug/L	1.0	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/L	25.0	1	06/28/06
Acetone	ND	ug/L	25.0	1	06/28/06
Benzene	ND	ug/L	1.0	1	06/28/06
Bromobenzene	ND	ug/L	2.0	1	06/28/06
Bromochloromethane	ND	ug/L	1.0	1	06/28/06
Bromodichloromethane	ND	ug/L	1.0	1	06/28/06
Bromoform	ND	ug/L	1.0	1	06/28/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW21  
Date Sampled: 06/21/06 14:54  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-08  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Bromomethane	ND	ug/L	2.0	1	06/28/06
Carbon Disulfide	ND	ug/L	1.0	1	06/28/06
Carbon Tetrachloride	ND	ug/L	1.0	1	06/28/06
Chlorobenzene	ND	ug/L	1.0	1	06/28/06
Chloroethane	ND	ug/L	2.0	1	06/28/06
Chloroform	ND	ug/L	1.0	1	06/28/06
Chloromethane	ND	ug/L	2.0	1	06/28/06
<b>cis-1,2-Dichloroethene</b>	<b>5.4</b>	ug/L	1.0	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
Dibromochloromethane	ND	ug/L	1.0	1	06/28/06
Dibromomethane	ND	ug/L	1.0	1	06/28/06
Dichlorodifluoromethane	ND	ug/L	2.0	1	06/28/06
Diethyl Ether	ND	ug/L	1.0	1	06/28/06
Di-isopropyl ether	ND	ug/L	1.0	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/L	1.0	1	06/28/06
Ethylbenzene	ND	ug/L	1.0	1	06/28/06
Hexachlorobutadiene	ND	ug/L	0.6	1	06/28/06
Isopropylbenzene	ND	ug/L	1.0	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/L	1.0	1	06/28/06
Methylene Chloride	ND	ug/L	5.0	1	06/28/06
Naphthalene	ND	ug/L	1.0	1	06/28/06
n-Butylbenzene	ND	ug/L	1.0	1	06/28/06
n-Propylbenzene	ND	ug/L	1.0	1	06/28/06
sec-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Styrene	ND	ug/L	1.0	1	06/28/06
tert-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/L	1.0	1	06/28/06
Tetrachloroethene	ND	ug/L	1.0	1	06/28/06
Tetrahydrofuran	ND	ug/L	5.0	1	06/28/06
<b>Toluene</b>	<b>1.1</b>	ug/L	1.0	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
<b>Trichloroethene</b>	<b>1.6</b>	ug/L	1.0	1	06/28/06
Trichlorofluoromethane	ND	ug/L	2.0	1	06/28/06
Vinyl Acetate	ND	ug/L	5.0	1	06/28/06
<b>Vinyl Chloride</b>	<b>1.3</b>	ug/L	<b>1629</b>	1	06/28/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW21  
Date Sampled: 06/21/06 14:54  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-08  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Xylene O	ND	ug/L	1.0	1	06/28/06
Xylene P,M	ND	ug/L	2.0	1	06/28/06
Xylenes (Total)	ND	ug/L	3.0		06/28/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	95 %		70-130
Surrogate: 4-Bromofluorobenzene	97 %		70-130
Surrogate: Dibromofluoromethane	100 %		70-130
Surrogate: Toluene-d8	98 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW22  
Date Sampled: 06/21/06 15:05  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-09  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	06/28/06
<b>1,1,1-Trichloroethane</b>	<b>1.0</b>	ug/L	1.0	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	06/28/06
1,1,2-Trichloroethane	ND	ug/L	1.0	1	06/28/06
1,1-Dichloroethane	ND	ug/L	1.0	1	06/28/06
1,1-Dichloroethene	ND	ug/L	1.0	1	06/28/06
1,1-Dichloropropene	ND	ug/L	2.0	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2,3-Trichloropropane	ND	ug/L	1.0	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0	1	06/28/06
1,2-Dibromoethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2-Dichloroethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,4-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,4-Dioxane - Screen	ND	ug/L	500	1	06/28/06
1-Chlorohexane	ND	ug/L	1.0	1	06/28/06
2,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
2-Butanone	ND	ug/L	25.0	1	06/28/06
2-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
2-Hexanone	ND	ug/L	10.0	1	06/28/06
4-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
4-Isopropyltoluene	ND	ug/L	1.0	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/L	25.0	1	06/28/06
Acetone	ND	ug/L	25.0	1	06/28/06
Benzene	ND	ug/L	1.0	1	06/28/06
Bromobenzene	ND	ug/L	2.0	1	06/28/06
Bromochloromethane	ND	ug/L	1.0	1	06/28/06
Bromodichloromethane	ND	ug/L	1.0	1	06/28/06
Bromoform	ND	ug/L	<b>681</b>	1	06/28/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SW22

Date Sampled: 06/21/06 15:05

Percent Solids: N/A

Initial Volume: 10

Final Volume: 10

Extraction Method: 5030B

ESS Laboratory Work Order: 0606346

ESS Laboratory Sample ID: 0606346-09

Sample Matrix: Surface Water

Analyst: MD

### 8260B Volatile Organic Compounds

Bromomethane	ND	ug/L	2.0	1	06/28/06
Carbon Disulfide	ND	ug/L	1.0	1	06/28/06
Carbon Tetrachloride	ND	ug/L	1.0	1	06/28/06
Chlorobenzene	ND	ug/L	1.0	1	06/28/06
Chloroethane	ND	ug/L	2.0	1	06/28/06
Chloroform	ND	ug/L	1.0	1	06/28/06
Chloromethane	ND	ug/L	2.0	1	06/28/06
<b>cis-1,2-Dichloroethene</b>	<b>4.4</b>	ug/L	1.0	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
Dibromochloromethane	ND	ug/L	1.0	1	06/28/06
Dibromomethane	ND	ug/L	1.0	1	06/28/06
Dichlorodifluoromethane	ND	ug/L	2.0	1	06/28/06
Diethyl Ether	ND	ug/L	1.0	1	06/28/06
Di-isopropyl ether	ND	ug/L	1.0	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/L	1.0	1	06/28/06
Ethylbenzene	ND	ug/L	1.0	1	06/28/06
Hexachlorobutadiene	ND	ug/L	0.6	1	06/28/06
Isopropylbenzene	ND	ug/L	1.0	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/L	1.0	1	06/28/06
Methylene Chloride	ND	ug/L	5.0	1	06/28/06
Naphthalene	ND	ug/L	1.0	1	06/28/06
n-Butylbenzene	ND	ug/L	1.0	1	06/28/06
n-Propylbenzene	ND	ug/L	1.0	1	06/28/06
sec-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Styrene	ND	ug/L	1.0	1	06/28/06
tert-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/L	1.0	1	06/28/06
Tetrachloroethene	ND	ug/L	1.0	1	06/28/06
Tetrahydrofuran	ND	ug/L	5.0	1	06/28/06
<b>Toluene</b>	<b>1.4</b>	ug/L	1.0	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
<b>Trichloroethene</b>	<b>1.3</b>	ug/L	1.0	1	06/28/06
Trichlorofluoromethane	ND	ug/L	2.0	1	06/28/06
Vinyl Acetate	ND	ug/L	5.0	1	06/28/06
<b>Vinyl Chloride</b>	<b>1.1</b>	ug/L	<b>1632</b>	1	06/28/06



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SW22

Date Sampled: 06/21/06 15:05

Percent Solids: N/A

Initial Volume: 10

Final Volume: 10

Extraction Method: 5030B

ESS Laboratory Work Order: 0606346

ESS Laboratory Sample ID: 0606346-09

Sample Matrix: Surface Water

Analyst: MD

### 8260B Volatile Organic Compounds

Xylene O	ND	ug/L	1.0	1	06/28/06
Xylene P,M	ND	ug/L	2.0	1	06/28/06
Xylenes (Total)	ND	ug/L	3.0		06/28/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	96 %		70-130
Surrogate: 4-Bromofluorobenzene	98 %		70-130
Surrogate: Dibromofluoromethane	100 %		70-130
Surrogate: Toluene-d8	98 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW23  
Date Sampled: 06/21/06 15:15  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-10  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	06/28/06
<b>1,1,1-Trichloroethane</b>	<b>1.0</b>	ug/L	1.0	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	06/28/06
1,1,2-Trichloroethane	ND	ug/L	1.0	1	06/28/06
1,1-Dichloroethane	ND	ug/L	1.0	1	06/28/06
1,1-Dichloroethene	ND	ug/L	1.0	1	06/28/06
1,1-Dichloropropene	ND	ug/L	2.0	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2,3-Trichloropropane	ND	ug/L	1.0	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0	1	06/28/06
1,2-Dibromoethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2-Dichloroethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,4-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,4-Dioxane - Screen	ND	ug/L	500	1	06/28/06
1-Chlorohexane	ND	ug/L	1.0	1	06/28/06
2,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
2-Butanone	ND	ug/L	25.0	1	06/28/06
2-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
2-Hexanone	ND	ug/L	10.0	1	06/28/06
4-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
4-Isopropyltoluene	ND	ug/L	1.0	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/L	25.0	1	06/28/06
Acetone	ND	ug/L	25.0	1	06/28/06
Benzene	ND	ug/L	1.0	1	06/28/06
Bromobenzene	ND	ug/L	2.0	1	06/28/06
Bromochloromethane	ND	ug/L	1.0	1	06/28/06
Bromodichloromethane	ND	ug/L	1.0	1	06/28/06
Bromoform	ND	ug/L	<b>1634</b>	1	06/28/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW23  
Date Sampled: 06/21/06 15:15  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-10  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Bromomethane	ND	ug/L	2.0	1	06/28/06
Carbon Disulfide	ND	ug/L	1.0	1	06/28/06
Carbon Tetrachloride	ND	ug/L	1.0	1	06/28/06
Chlorobenzene	ND	ug/L	1.0	1	06/28/06
Chloroethane	ND	ug/L	2.0	1	06/28/06
Chloroform	ND	ug/L	1.0	1	06/28/06
Chloromethane	ND	ug/L	2.0	1	06/28/06
<b>cis-1,2-Dichloroethene</b>	<b>4.4</b>	ug/L	1.0	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
Dibromochloromethane	ND	ug/L	1.0	1	06/28/06
Dibromomethane	ND	ug/L	1.0	1	06/28/06
Dichlorodifluoromethane	ND	ug/L	2.0	1	06/28/06
Diethyl Ether	ND	ug/L	1.0	1	06/28/06
Di-isopropyl ether	ND	ug/L	1.0	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/L	1.0	1	06/28/06
Ethylbenzene	ND	ug/L	1.0	1	06/28/06
Hexachlorobutadiene	ND	ug/L	0.6	1	06/28/06
Isopropylbenzene	ND	ug/L	1.0	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/L	1.0	1	06/28/06
Methylene Chloride	ND	ug/L	5.0	1	06/28/06
Naphthalene	ND	ug/L	1.0	1	06/28/06
n-Butylbenzene	ND	ug/L	1.0	1	06/28/06
n-Propylbenzene	ND	ug/L	1.0	1	06/28/06
sec-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Styrene	ND	ug/L	1.0	1	06/28/06
tert-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/L	1.0	1	06/28/06
Tetrachloroethene	ND	ug/L	1.0	1	06/28/06
Tetrahydrofuran	ND	ug/L	5.0	1	06/28/06
<b>Toluene</b>	<b>1.9</b>	ug/L	1.0	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
<b>Trichloroethene</b>	<b>1.7</b>	ug/L	1.0	1	06/28/06
Trichlorofluoromethane	ND	ug/L	2.0	1	06/28/06
Vinyl Acetate	ND	ug/L	5.0	1	06/28/06
<b>Vinyl Chloride</b>	<b>1.0</b>	ug/L	<b>1635</b>	1	06/28/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW23  
Date Sampled: 06/21/06 15:15  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-10  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Xylene O	ND	ug/L	1.0	1	06/28/06
Xylene P,M	ND	ug/L	2.0	1	06/28/06
Xylenes (Total)	ND	ug/L	3.0		06/28/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	96 %		70-130
Surrogate: 4-Bromofluorobenzene	98 %		70-130
Surrogate: Dibromofluoromethane	99 %		70-130
Surrogate: Toluene-d8	98 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW24  
Date Sampled: 06/21/06 15:25  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-11  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	06/28/06
<b>1,1,1-Trichloroethane</b>	<b>1.3</b>	ug/L	1.0	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	06/28/06
1,1,2-Trichloroethane	ND	ug/L	1.0	1	06/28/06
1,1-Dichloroethane	ND	ug/L	1.0	1	06/28/06
1,1-Dichloroethene	ND	ug/L	1.0	1	06/28/06
1,1-Dichloropropene	ND	ug/L	2.0	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2,3-Trichloropropane	ND	ug/L	1.0	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0	1	06/28/06
1,2-Dibromoethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2-Dichloroethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,4-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,4-Dioxane - Screen	ND	ug/L	500	1	06/28/06
1-Chlorohexane	ND	ug/L	1.0	1	06/28/06
2,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
2-Butanone	ND	ug/L	25.0	1	06/28/06
2-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
2-Hexanone	ND	ug/L	10.0	1	06/28/06
4-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
4-Isopropyltoluene	ND	ug/L	1.0	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/L	25.0	1	06/28/06
Acetone	ND	ug/L	25.0	1	06/28/06
Benzene	ND	ug/L	1.0	1	06/28/06
Bromobenzene	ND	ug/L	2.0	1	06/28/06
Bromochloromethane	ND	ug/L	1.0	1	06/28/06
Bromodichloromethane	ND	ug/L	1.0	1	06/28/06
Bromoform	ND	ug/L	<b>637</b>	1	06/28/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW24  
Date Sampled: 06/21/06 15:25  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-11  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Bromomethane	ND	ug/L	2.0	1	06/28/06
Carbon Disulfide	ND	ug/L	1.0	1	06/28/06
Carbon Tetrachloride	ND	ug/L	1.0	1	06/28/06
Chlorobenzene	ND	ug/L	1.0	1	06/28/06
Chloroethane	ND	ug/L	2.0	1	06/28/06
Chloroform	ND	ug/L	1.0	1	06/28/06
Chloromethane	ND	ug/L	2.0	1	06/28/06
<b>cis-1,2-Dichloroethene</b>	<b>5.9</b>	ug/L	1.0	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
Dibromochloromethane	ND	ug/L	1.0	1	06/28/06
Dibromomethane	ND	ug/L	1.0	1	06/28/06
Dichlorodifluoromethane	ND	ug/L	2.0	1	06/28/06
Diethyl Ether	ND	ug/L	1.0	1	06/28/06
Di-isopropyl ether	ND	ug/L	1.0	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/L	1.0	1	06/28/06
Ethylbenzene	ND	ug/L	1.0	1	06/28/06
Hexachlorobutadiene	ND	ug/L	0.6	1	06/28/06
Isopropylbenzene	ND	ug/L	1.0	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/L	1.0	1	06/28/06
Methylene Chloride	ND	ug/L	5.0	1	06/28/06
Naphthalene	ND	ug/L	1.0	1	06/28/06
n-Butylbenzene	ND	ug/L	1.0	1	06/28/06
n-Propylbenzene	ND	ug/L	1.0	1	06/28/06
sec-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Styrene	ND	ug/L	1.0	1	06/28/06
tert-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/L	1.0	1	06/28/06
Tetrachloroethene	ND	ug/L	1.0	1	06/28/06
Tetrahydrofuran	ND	ug/L	5.0	1	06/28/06
<b>Toluene</b>	<b>2.9</b>	ug/L	1.0	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
<b>Trichloroethene</b>	<b>1.4</b>	ug/L	1.0	1	06/28/06
Trichlorofluoromethane	ND	ug/L	2.0	1	06/28/06
Vinyl Acetate	ND	ug/L	5.0	1	06/28/06
<b>Vinyl Chloride</b>	<b>1.8</b>	ug/L	<b>1638</b>	1	06/28/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SW24

Date Sampled: 06/21/06 15:25

Percent Solids: N/A

Initial Volume: 10

Final Volume: 10

Extraction Method: 5030B

ESS Laboratory Work Order: 0606346

ESS Laboratory Sample ID: 0606346-11

Sample Matrix: Surface Water

Analyst: MD

### 8260B Volatile Organic Compounds

Xylene O	ND	ug/L	1.0	1	06/28/06
Xylene P,M	ND	ug/L	2.0	1	06/28/06
Xylenes (Total)	ND	ug/L	3.0		06/28/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	96 %		70-130
Surrogate: 4-Bromofluorobenzene	98 %		70-130
Surrogate: Dibromofluoromethane	100 %		70-130
Surrogate: Toluene-d8	98 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW26  
Date Sampled: 06/21/06 15:48  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-13  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	06/28/06
<b>1,1,1-Trichloroethane</b>	<b>1.5</b>	ug/L	1.0	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	06/28/06
1,1,2-Trichloroethane	ND	ug/L	1.0	1	06/28/06
1,1-Dichloroethane	ND	ug/L	1.0	1	06/28/06
1,1-Dichloroethene	ND	ug/L	1.0	1	06/28/06
1,1-Dichloropropene	ND	ug/L	2.0	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2,3-Trichloropropane	ND	ug/L	1.0	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0	1	06/28/06
1,2-Dibromoethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,2-Dichloroethane	ND	ug/L	1.0	1	06/28/06
1,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,3-Dichloropropane	ND	ug/L	1.0	1	06/28/06
1,4-Dichlorobenzene	ND	ug/L	1.0	1	06/28/06
1,4-Dioxane - Screen	ND	ug/L	500	1	06/28/06
1-Chlorohexane	ND	ug/L	1.0	1	06/28/06
2,2-Dichloropropane	ND	ug/L	1.0	1	06/28/06
2-Butanone	ND	ug/L	25.0	1	06/28/06
2-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
2-Hexanone	ND	ug/L	10.0	1	06/28/06
4-Chlorotoluene	ND	ug/L	1.0	1	06/28/06
4-Isopropyltoluene	ND	ug/L	1.0	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/L	25.0	1	06/28/06
Acetone	ND	ug/L	25.0	1	06/28/06
Benzene	ND	ug/L	1.0	1	06/28/06
Bromobenzene	ND	ug/L	2.0	1	06/28/06
Bromochloromethane	ND	ug/L	1.0	1	06/28/06
Bromodichloromethane	ND	ug/L	1.0	1	06/28/06
Bromoform	ND	ug/L	<b>640</b>	1	06/28/06



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW26  
Date Sampled: 06/21/06 15:48  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-13  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Bromomethane	ND	ug/L	2.0	1	06/28/06
Carbon Disulfide	ND	ug/L	1.0	1	06/28/06
Carbon Tetrachloride	ND	ug/L	1.0	1	06/28/06
Chlorobenzene	ND	ug/L	1.0	1	06/28/06
Chloroethane	ND	ug/L	2.0	1	06/28/06
Chloroform	ND	ug/L	1.0	1	06/28/06
Chloromethane	ND	ug/L	2.0	1	06/28/06
<b>cis-1,2-Dichloroethene</b>	<b>2.5</b>	ug/L	1.0	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
Dibromochloromethane	ND	ug/L	1.0	1	06/28/06
Dibromomethane	ND	ug/L	1.0	1	06/28/06
Dichlorodifluoromethane	ND	ug/L	2.0	1	06/28/06
Diethyl Ether	ND	ug/L	1.0	1	06/28/06
Di-isopropyl ether	ND	ug/L	1.0	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/L	1.0	1	06/28/06
Ethylbenzene	ND	ug/L	1.0	1	06/28/06
Hexachlorobutadiene	ND	ug/L	0.6	1	06/28/06
Isopropylbenzene	ND	ug/L	1.0	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/L	1.0	1	06/28/06
Methylene Chloride	ND	ug/L	5.0	1	06/28/06
Naphthalene	ND	ug/L	1.0	1	06/28/06
n-Butylbenzene	ND	ug/L	1.0	1	06/28/06
n-Propylbenzene	ND	ug/L	1.0	1	06/28/06
sec-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Styrene	ND	ug/L	1.0	1	06/28/06
tert-Butylbenzene	ND	ug/L	1.0	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/L	1.0	1	06/28/06
Tetrachloroethene	ND	ug/L	1.0	1	06/28/06
Tetrahydrofuran	ND	ug/L	5.0	1	06/28/06
<b>Toluene</b>	<b>1.5</b>	ug/L	1.0	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/L	0.5	1	06/28/06
Trichloroethene	ND	ug/L	1.0	1	06/28/06
Trichlorofluoromethane	ND	ug/L	2.0	1	06/28/06
Vinyl Acetate	ND	ug/L	5.0	1	06/28/06
Vinyl Chloride	ND	ug/L	<b>641</b>	1	06/28/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW26  
Date Sampled: 06/21/06 15:48  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-13  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Xylene O	ND	ug/L	1.0	1	06/28/06
Xylene P,M	ND	ug/L	2.0	1	06/28/06
Xylenes (Total)	ND	ug/L	3.0		06/28/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	95 %		70-130
Surrogate: 4-Bromofluorobenzene	98 %		70-130
Surrogate: Dibromofluoromethane	99 %		70-130
Surrogate: Toluene-d8	98 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW20  
Date Sampled: 06/21/06 16:09  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-14  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	06/29/06
1,1,1-Trichloroethane	ND	ug/L	1.0	1	06/29/06
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	06/29/06
1,1,2-Trichloroethane	ND	ug/L	1.0	1	06/29/06
1,1-Dichloroethane	ND	ug/L	1.0	1	06/29/06
1,1-Dichloroethene	ND	ug/L	1.0	1	06/29/06
1,1-Dichloropropene	ND	ug/L	2.0	1	06/29/06
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	06/29/06
1,2,3-Trichloropropane	ND	ug/L	1.0	1	06/29/06
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	06/29/06
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	06/29/06
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0	1	06/29/06
1,2-Dibromoethane	ND	ug/L	1.0	1	06/29/06
1,2-Dichlorobenzene	ND	ug/L	1.0	1	06/29/06
1,2-Dichloroethane	ND	ug/L	1.0	1	06/29/06
1,2-Dichloropropane	ND	ug/L	1.0	1	06/29/06
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	06/29/06
1,3-Dichlorobenzene	ND	ug/L	1.0	1	06/29/06
1,3-Dichloropropane	ND	ug/L	1.0	1	06/29/06
1,4-Dichlorobenzene	ND	ug/L	1.0	1	06/29/06
1,4-Dioxane - Screen	ND	ug/L	500	1	06/29/06
1-Chlorohexane	ND	ug/L	1.0	1	06/29/06
2,2-Dichloropropane	ND	ug/L	1.0	1	06/29/06
2-Butanone	ND	ug/L	25.0	1	06/29/06
2-Chlorotoluene	ND	ug/L	1.0	1	06/29/06
2-Hexanone	ND	ug/L	10.0	1	06/29/06
4-Chlorotoluene	ND	ug/L	1.0	1	06/29/06
4-Isopropyltoluene	ND	ug/L	1.0	1	06/29/06
4-Methyl-2-Pentanone	ND	ug/L	25.0	1	06/29/06
Acetone	ND	ug/L	25.0	1	06/29/06
Benzene	ND	ug/L	1.0	1	06/29/06
Bromobenzene	ND	ug/L	2.0	1	06/29/06
Bromochloromethane	ND	ug/L	1.0	1	06/29/06
Bromodichloromethane	ND	ug/L	1.0	1	06/29/06
Bromoform	ND	ug/L	643	1	06/29/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW20  
Date Sampled: 06/21/06 16:09  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-14  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Bromomethane	ND	ug/L	2.0	1	06/29/06
Carbon Disulfide	ND	ug/L	1.0	1	06/29/06
Carbon Tetrachloride	ND	ug/L	1.0	1	06/29/06
Chlorobenzene	ND	ug/L	1.0	1	06/29/06
Chloroethane	ND	ug/L	2.0	1	06/29/06
Chloroform	ND	ug/L	1.0	1	06/29/06
Chloromethane	ND	ug/L	2.0	1	06/29/06
<b>cis-1,2-Dichloroethene</b>	<b>2.5</b>	ug/L	1.0	1	06/29/06
cis-1,3-Dichloropropene	ND	ug/L	0.5	1	06/29/06
Dibromochloromethane	ND	ug/L	1.0	1	06/29/06
Dibromomethane	ND	ug/L	1.0	1	06/29/06
Dichlorodifluoromethane	ND	ug/L	2.0	1	06/29/06
Diethyl Ether	ND	ug/L	1.0	1	06/29/06
Di-isopropyl ether	ND	ug/L	1.0	1	06/29/06
Ethyl tertiary-butyl ether	ND	ug/L	1.0	1	06/29/06
Ethylbenzene	ND	ug/L	1.0	1	06/29/06
Hexachlorobutadiene	ND	ug/L	0.6	1	06/29/06
Isopropylbenzene	ND	ug/L	1.0	1	06/29/06
Methyl tert-Butyl Ether	ND	ug/L	1.0	1	06/29/06
Methylene Chloride	ND	ug/L	5.0	1	06/29/06
Naphthalene	ND	ug/L	1.0	1	06/29/06
n-Butylbenzene	ND	ug/L	1.0	1	06/29/06
n-Propylbenzene	ND	ug/L	1.0	1	06/29/06
sec-Butylbenzene	ND	ug/L	1.0	1	06/29/06
Styrene	ND	ug/L	1.0	1	06/29/06
tert-Butylbenzene	ND	ug/L	1.0	1	06/29/06
Tertiary-amyl methyl ether	ND	ug/L	1.0	1	06/29/06
Tetrachloroethene	ND	ug/L	1.0	1	06/29/06
Tetrahydrofuran	ND	ug/L	5.0	1	06/29/06
<b>Toluene</b>	<b>1.7</b>	ug/L	1.0	1	06/29/06
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	06/29/06
trans-1,3-Dichloropropene	ND	ug/L	0.5	1	06/29/06
Trichloroethene	ND	ug/L	1.0	1	06/29/06
Trichlorofluoromethane	ND	ug/L	2.0	1	06/29/06
Vinyl Acetate	ND	ug/L	5.0	1	06/29/06
Vinyl Chloride	ND	ug/L	<b>644</b>	1	06/29/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW20  
Date Sampled: 06/21/06 16:09  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-14  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Xylene O	ND	ug/L	1.0	1	06/29/06
Xylene P,M	ND	ug/L	2.0	1	06/29/06
Xylenes (Total)	ND	ug/L	3.0		06/29/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	96 %		70-130
Surrogate: 4-Bromofluorobenzene	98 %		70-130
Surrogate: Dibromofluoromethane	100 %		70-130
Surrogate: Toluene-d8	98 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SW17

Date Sampled: 06/21/06 16:18

Percent Solids: N/A

Initial Volume: 10

Final Volume: 10

Extraction Method: 5030B

ESS Laboratory Work Order: 0606346

ESS Laboratory Sample ID: 0606346-15

Sample Matrix: Surface Water

Analyst: MD

### 8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	06/29/06
<b>1,1,1-Trichloroethane</b>	<b>1.8</b>	ug/L	1.0	1	06/29/06
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	06/29/06
1,1,2-Trichloroethane	ND	ug/L	1.0	1	06/29/06
<b>1,1-Dichloroethane</b>	<b>1.4</b>	ug/L	1.0	1	06/29/06
1,1-Dichloroethene	ND	ug/L	1.0	1	06/29/06
1,1-Dichloropropene	ND	ug/L	2.0	1	06/29/06
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	06/29/06
1,2,3-Trichloropropane	ND	ug/L	1.0	1	06/29/06
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	06/29/06
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	06/29/06
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0	1	06/29/06
1,2-Dibromoethane	ND	ug/L	1.0	1	06/29/06
1,2-Dichlorobenzene	ND	ug/L	1.0	1	06/29/06
1,2-Dichloroethane	ND	ug/L	1.0	1	06/29/06
1,2-Dichloropropane	ND	ug/L	1.0	1	06/29/06
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	06/29/06
1,3-Dichlorobenzene	ND	ug/L	1.0	1	06/29/06
1,3-Dichloropropane	ND	ug/L	1.0	1	06/29/06
1,4-Dichlorobenzene	ND	ug/L	1.0	1	06/29/06
1,4-Dioxane - Screen	ND	ug/L	500	1	06/29/06
1-Chlorohexane	ND	ug/L	1.0	1	06/29/06
2,2-Dichloropropane	ND	ug/L	1.0	1	06/29/06
2-Butanone	ND	ug/L	25.0	1	06/29/06
2-Chlorotoluene	ND	ug/L	1.0	1	06/29/06
2-Hexanone	ND	ug/L	10.0	1	06/29/06
4-Chlorotoluene	ND	ug/L	1.0	1	06/29/06
4-Isopropyltoluene	ND	ug/L	1.0	1	06/29/06
4-Methyl-2-Pentanone	ND	ug/L	25.0	1	06/29/06
Acetone	ND	ug/L	25.0	1	06/29/06
Benzene	ND	ug/L	1.0	1	06/29/06
Bromobenzene	ND	ug/L	2.0	1	06/29/06
Bromochloromethane	ND	ug/L	1.0	1	06/29/06
Bromodichloromethane	ND	ug/L	1.0	1	06/29/06
Bromoform	ND	ug/L	<b>1646</b>	1	06/29/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW17  
Date Sampled: 06/21/06 16:18  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-15  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Bromomethane	ND	ug/L	2.0	1	06/29/06
Carbon Disulfide	ND	ug/L	1.0	1	06/29/06
Carbon Tetrachloride	ND	ug/L	1.0	1	06/29/06
Chlorobenzene	ND	ug/L	1.0	1	06/29/06
Chloroethane	ND	ug/L	2.0	1	06/29/06
Chloroform	ND	ug/L	1.0	1	06/29/06
Chloromethane	ND	ug/L	2.0	1	06/29/06
<b>cis-1,2-Dichloroethene</b>	<b>4.5</b>	ug/L	1.0	1	06/29/06
cis-1,3-Dichloropropene	ND	ug/L	0.5	1	06/29/06
Dibromochloromethane	ND	ug/L	1.0	1	06/29/06
Dibromomethane	ND	ug/L	1.0	1	06/29/06
Dichlorodifluoromethane	ND	ug/L	2.0	1	06/29/06
Diethyl Ether	ND	ug/L	1.0	1	06/29/06
Di-isopropyl ether	ND	ug/L	1.0	1	06/29/06
Ethyl tertiary-butyl ether	ND	ug/L	1.0	1	06/29/06
<b>Ethylbenzene</b>	<b>1.0</b>	ug/L	1.0	1	06/29/06
Hexachlorobutadiene	ND	ug/L	0.6	1	06/29/06
Isopropylbenzene	ND	ug/L	1.0	1	06/29/06
Methyl tert-Butyl Ether	ND	ug/L	1.0	1	06/29/06
Methylene Chloride	ND	ug/L	5.0	1	06/29/06
Naphthalene	ND	ug/L	1.0	1	06/29/06
n-Butylbenzene	ND	ug/L	1.0	1	06/29/06
n-Propylbenzene	ND	ug/L	1.0	1	06/29/06
sec-Butylbenzene	ND	ug/L	1.0	1	06/29/06
Styrene	ND	ug/L	1.0	1	06/29/06
tert-Butylbenzene	ND	ug/L	1.0	1	06/29/06
Tertiary-amyl methyl ether	ND	ug/L	1.0	1	06/29/06
Tetrachloroethene	ND	ug/L	1.0	1	06/29/06
Tetrahydrofuran	ND	ug/L	5.0	1	06/29/06
<b>Toluene</b>	<b>4.3</b>	ug/L	1.0	1	06/29/06
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	06/29/06
trans-1,3-Dichloropropene	ND	ug/L	0.5	1	06/29/06
<b>Trichloroethene</b>	<b>1.0</b>	ug/L	1.0	1	06/29/06
Trichlorofluoromethane	ND	ug/L	2.0	1	06/29/06
Vinyl Acetate	ND	ug/L	5.0	1	06/29/06
<b>Vinyl Chloride</b>	<b>1.3</b>	ug/L	<b>647</b>	1	06/29/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW17  
Date Sampled: 06/21/06 16:18  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-15  
Sample Matrix: Surface Water  
Analyst: MD

### 8260B Volatile Organic Compounds

Xylene O	1.0	ug/L	1.0	1	06/29/06
Xylene P,M	2.4	ug/L	2.0	1	06/29/06
Xylenes (Total)	3.4	ug/L	3.0		06/29/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	96 %		70-130
Surrogate: 4-Bromofluorobenzene	98 %		70-130
Surrogate: Dibromofluoromethane	100 %		70-130
Surrogate: Toluene-d8	98 %		70-130



# Volatile Organics Quality Control Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8082 Polychlorinated Biphenyls (PCB)

##### Batch BF63030 - 3510C

##### LCS

Aroclor 1016	4.99	0.500	ug/L	5.00		100	40-140			
Aroclor 1260	4.15	0.500	ug/L	5.00		83	40-140			
Surrogate: Decachlorobiphenyl	0.223		ug/L	0.250		89	40-140			
Surrogate: Decachlorobiphenyl [2C]	0.205		ug/L	0.250		82	40-140			
Surrogate: Tetrachloro-m-xylene	0.234		ug/L	0.250		94	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.239		ug/L	0.250		96	40-140			

##### LCS Dup

Aroclor 1016	5.04	0.500	ug/L	5.00		101	40-140	1	50	
Aroclor 1260	4.01	0.500	ug/L	5.00		80	40-140	3	50	
Surrogate: Decachlorobiphenyl	0.193		ug/L	0.250		77	40-140			
Surrogate: Decachlorobiphenyl [2C]	0.214		ug/L	0.250		86	40-140			
Surrogate: Tetrachloro-m-xylene	0.230		ug/L	0.250		92	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.246		ug/L	0.250		98	40-140			

#### 8260B Volatile Organic Compounds

##### Batch BF62822 - 5030B

##### Blank

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L							
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
1,1-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	1.0	ug/L							
1,1-Dichloropropene	ND	2.0	ug/L							
1,2,3-Trichlorobenzene	ND	1.0	ug/L							
1,2,3-Trichloropropane	ND	1.0	ug/L							
1,2,4-Trichlorobenzene	ND	1.0	ug/L							
1,2,4-Trimethylbenzene	ND	1.0	ug/L							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							
1,2-Dichlorobenzene	ND	1.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
1,3,5-Trimethylbenzene	ND	1.0	ug/L							
1,3-Dichlorobenzene	ND	1.0	ug/L							
1,3-Dichloropropane	ND	1.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
1,4-Dioxane - Screen	ND	500	ug/L							
1-Chlorohexane	ND	1.0	ug/L							
2,2-Dichloropropane	ND	1.0	ug/L							
2-Butanone	ND	25.0	ug/L							
2-Chlorotoluene	ND	1.0	ug/L							
2-Hexanone	ND	10.0	ug/L							
4-Chlorotoluene	ND	1.0	ug/L	650						

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
 Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8260B Volatile Organic Compounds

##### Batch BF62822 - 5030B

4-Isopropyltoluene	ND	1.0	ug/L							
4-Methyl-2-Pentanone	ND	25.0	ug/L							
Acetone	ND	25.0	ug/L							
Benzene	ND	1.0	ug/L							
Bromobenzene	ND	2.0	ug/L							
Bromochloromethane	ND	1.0	ug/L							
Bromodichloromethane	ND	1.0	ug/L							
Bromoform	ND	1.0	ug/L							
Bromomethane	ND	2.0	ug/L							
Carbon Disulfide	ND	1.0	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
Chlorobenzene	ND	1.0	ug/L							
Chloroethane	ND	2.0	ug/L							
Chloroform	ND	1.0	ug/L							
Chloromethane	ND	2.0	ug/L							
cis-1,2-Dichloroethene	ND	1.0	ug/L							
cis-1,3-Dichloropropene	ND	0.5	ug/L							
Dibromochloromethane	ND	1.0	ug/L							
Dibromomethane	ND	1.0	ug/L							
Dichlorodifluoromethane	ND	2.0	ug/L							
Diethyl Ether	ND	1.0	ug/L							
Di-isopropyl ether	ND	1.0	ug/L							
Ethyl tertiary-butyl ether	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Hexachlorobutadiene	ND	0.6	ug/L							
Isopropylbenzene	ND	1.0	ug/L							
Methyl tert-Butyl Ether	ND	1.0	ug/L							
Methylene Chloride	ND	5.0	ug/L							
Naphthalene	ND	1.0	ug/L							
n-Butylbenzene	ND	1.0	ug/L							
n-Propylbenzene	ND	1.0	ug/L							
sec-Butylbenzene	ND	1.0	ug/L							
Styrene	ND	1.0	ug/L							
tert-Butylbenzene	ND	1.0	ug/L							
Tertiary-amyl methyl ether	ND	1.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							
Tetrahydrofuran	ND	5.0	ug/L							
Toluene	ND	1.0	ug/L							
trans-1,2-Dichloroethene	ND	1.0	ug/L							
trans-1,3-Dichloropropene	ND	0.5	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	2.0	ug/L							
Vinyl Acetate	ND	5.0	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylene O	ND	1.0	ug/L							
Xylene P,M	ND	2.0	ug/L							
Surrogate: 1,2-Dichloroethane-d4	24.2		ug/L	651	25.0	97	70-130			

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8260B Volatile Organic Compounds

Batch BF62822 - 5030B

Surrogate: 4-Bromofluorobenzene	24.4		ug/L	25.0		98	70-130			
Surrogate: Dibromofluoromethane	25.2		ug/L	25.0		101	70-130			
Surrogate: Toluene-d8	24.5		ug/L	25.0		98	70-130			

#### LCS

1,1,1,2-Tetrachloroethane	9.4		ug/L	10.0		94	70-130			
1,1,1-Trichloroethane	9.9		ug/L	10.0		99	70-130			
1,1,2,2-Tetrachloroethane	8.7		ug/L	10.0		87	70-130			
1,1,2-Trichloroethane	9.4		ug/L	10.0		94	70-130			
1,1-Dichloroethane	9.4		ug/L	10.0		94	70-130			
1,1-Dichloroethene	10.6		ug/L	10.0		106	70-130			
1,1-Dichloropropene	9.5		ug/L	10.0		95	70-130			
1,2,3-Trichlorobenzene	9.3		ug/L	10.0		93	70-130			
1,2,3-Trichloropropane	8.7		ug/L	10.0		87	70-130			
1,2,4-Trichlorobenzene	9.3		ug/L	10.0		93	70-130			
1,2,4-Trimethylbenzene	9.6		ug/L	10.0		96	70-130			
1,2-Dibromo-3-Chloropropane	9.4		ug/L	10.0		94	70-130			
1,2-Dibromoethane	9.3		ug/L	10.0		93	70-130			
1,2-Dichlorobenzene	9.6		ug/L	10.0		96	70-130			
1,2-Dichloroethane	9.7		ug/L	10.0		97	70-130			
1,2-Dichloropropane	9.0		ug/L	10.0		90	70-130			
1,3,5-Trimethylbenzene	9.6		ug/L	10.0		96	70-130			
1,3-Dichlorobenzene	9.3		ug/L	10.0		93	70-130			
1,3-Dichloropropane	9.2		ug/L	10.0		92	70-130			
1,4-Dichlorobenzene	9.5		ug/L	10.0		95	70-130			
1,4-Dioxane - Screen	251		ug/L	200		126	70-130			
1-Chlorohexane	9.2		ug/L	10.0		92	70-130			
2,2-Dichloropropane	10.5		ug/L	10.0		105	70-130			
2-Butanone	47.0		ug/L	50.0		94	70-130			
2-Chlorotoluene	10.7		ug/L	10.0		107	70-130			
2-Hexanone	43.2		ug/L	50.0		86	70-130			
4-Chlorotoluene	9.5		ug/L	10.0		95	70-130			
4-Isopropyltoluene	9.4		ug/L	10.0		94	70-130			
4-Methyl-2-Pentanone	46.2		ug/L	50.0		92	70-130			
Acetone	42.9		ug/L	50.0		86	70-130			
Benzene	9.5		ug/L	10.0		95	70-130			
Bromobenzene	10.2		ug/L	10.0		102	70-130			
Bromochloromethane	10.6		ug/L	10.0		106	70-130			
Bromodichloromethane	10.3		ug/L	10.0		103	70-130			
Bromoform	9.6		ug/L	10.0		96	70-130			
Bromomethane	8.3		ug/L	10.0		83	70-130			
Carbon Disulfide	9.2		ug/L	10.0		92	70-130			
Carbon Tetrachloride	10.0		ug/L	10.0		100	70-130			
Chlorobenzene	9.5		ug/L	10.0		95	70-130			
Chloroethane	9.6		ug/L	10.0		96	70-130			
Chloroform	10.0		ug/L	10.0		100	70-130			
Chloromethane	8.5		ug/L	10.0		85	70-130			

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8260B Volatile Organic Compounds

##### Batch BF62822 - 5030B

cis-1,2-Dichloroethene	10.5		ug/L	10.0		105	70-130			
cis-1,3-Dichloropropene	9.5		ug/L	10.0		95	70-130			
Dibromochloromethane	9.7		ug/L	10.0		97	70-130			
Dibromomethane	10.1		ug/L	10.0		101	70-130			
Dichlorodifluoromethane	9.0		ug/L	10.0		90	70-130			
Diethyl Ether	10.1		ug/L	10.0		101	70-130			
Di-isopropyl ether	9.0		ug/L	10.0		90	70-130			
Ethyl tertiary-butyl ether	9.1		ug/L	10.0		91	70-130			
Ethylbenzene	9.6		ug/L	10.0		96	70-130			
Hexachlorobutadiene	9.6		ug/L	10.0		96	70-130			
Isopropylbenzene	8.6		ug/L	10.0		86	70-130			
Methyl tert-Butyl Ether	9.6		ug/L	10.0		96	70-130			
Methylene Chloride	9.8		ug/L	10.0		98	70-130			
Naphthalene	8.6		ug/L	10.0		86	70-130			
n-Butylbenzene	9.4		ug/L	10.0		94	70-130			
n-Propylbenzene	8.9		ug/L	10.0		89	70-130			
sec-Butylbenzene	9.1		ug/L	10.0		91	70-130			
Styrene	9.7		ug/L	10.0		97	70-130			
tert-Butylbenzene	9.4		ug/L	10.0		94	70-130			
Tertiary-amyl methyl ether	9.4		ug/L	10.0		94	70-130			
Tetrachloroethene	9.6		ug/L	10.0		96	70-130			
Tetrahydrofuran	8.4		ug/L	10.0		84	70-130			
Toluene	9.8		ug/L	10.0		98	70-130			
trans-1,2-Dichloroethene	10.0		ug/L	10.0		100	70-130			
trans-1,3-Dichloropropene	8.9		ug/L	10.0		89	70-130			
Trichloroethene	9.7		ug/L	10.0		97	70-130			
Trichlorofluoromethane	9.5		ug/L	10.0		95	70-130			
Vinyl Acetate	8.7		ug/L	10.0		87	70-130			
Vinyl Chloride	9.2		ug/L	10.0		92	70-130			
Xylene O	9.6		ug/L	10.0		96	70-130			
Xylene P,M	19.1		ug/L	20.0		96	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.8		ug/L	25.0		99	70-130			
Surrogate: 4-Bromofluorobenzene	23.9		ug/L	25.0		96	70-130			
Surrogate: Dibromofluoromethane	25.0		ug/L	25.0		100	70-130			
Surrogate: Toluene-d8	24.2		ug/L	25.0		97	70-130			

##### LCS Dup

1,1,1,2-Tetrachloroethane	9.2		ug/L	10.0		92	70-130	2	20	
1,1,1-Trichloroethane	9.8		ug/L	10.0		98	70-130	1	20	
1,1,2,2-Tetrachloroethane	8.7		ug/L	10.0		87	70-130	0	20	
1,1,2-Trichloroethane	9.4		ug/L	10.0		94	70-130	0	20	
1,1-Dichloroethane	9.4		ug/L	10.0		94	70-130	0	20	
1,1-Dichloroethene	10.5		ug/L	10.0		105	70-130	0.9	20	
1,1-Dichloropropene	9.5		ug/L	10.0		95	70-130	0	20	
1,2,3-Trichlorobenzene	9.1		ug/L	10.0		91	70-130	2	20	
1,2,3-Trichloropropane	8.5		ug/L	10.0		85	70-130	2	20	
1,2,4-Trichlorobenzene	9.2		ug/L	10.0		92	70-130	1	20	
1,2,4-Trimethylbenzene	9.5		ug/L	10.0		95	70-130	1	20	

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8260B Volatile Organic Compounds

##### Batch BF62822 - 5030B

1,2-Dibromo-3-Chloropropane	9.0		ug/L	10.0		90	70-130	4	20	
1,2-Dibromoethane	9.3		ug/L	10.0		93	70-130	0	20	
1,2-Dichlorobenzene	9.5		ug/L	10.0		95	70-130	1	20	
1,2-Dichloroethane	9.7		ug/L	10.0		97	70-130	0	20	
1,2-Dichloropropane	9.0		ug/L	10.0		90	70-130	0	20	
1,3,5-Trimethylbenzene	9.3		ug/L	10.0		93	70-130	3	20	
1,3-Dichlorobenzene	9.2		ug/L	10.0		92	70-130	1	20	
1,3-Dichloropropane	9.2		ug/L	10.0		92	70-130	0	20	
1,4-Dichlorobenzene	9.4		ug/L	10.0		94	70-130	1	20	
1,4-Dioxane - Screen	154		ug/L	200		77	70-130	48	20	+
1-Chlorohexane	9.4		ug/L	10.0		94	70-130	2	20	
2,2-Dichloropropane	10.3		ug/L	10.0		103	70-130	2	20	
2-Butanone	45.0		ug/L	50.0		90	70-130	4	20	
2-Chlorotoluene	10.6		ug/L	10.0		106	70-130	0.9	20	
2-Hexanone	41.8		ug/L	50.0		84	70-130	3	20	
4-Chlorotoluene	9.3		ug/L	10.0		93	70-130	2	20	
4-Isopropyltoluene	9.2		ug/L	10.0		92	70-130	2	20	
4-Methyl-2-Pentanone	44.7		ug/L	50.0		89	70-130	3	20	
Acetone	41.4		ug/L	50.0		83	70-130	4	20	
Benzene	9.5		ug/L	10.0		95	70-130	0	20	
Bromobenzene	10.1		ug/L	10.0		101	70-130	1	20	
Bromochloromethane	10.5		ug/L	10.0		105	70-130	0.9	20	
Bromodichloromethane	10.2		ug/L	10.0		102	70-130	1	20	
Bromoform	9.6		ug/L	10.0		96	70-130	0	20	
Bromomethane	10.0		ug/L	10.0		100	70-130	19	20	
Carbon Disulfide	9.4		ug/L	10.0		94	70-130	2	20	
Carbon Tetrachloride	9.9		ug/L	10.0		99	70-130	1	20	
Chlorobenzene	9.6		ug/L	10.0		96	70-130	1	20	
Chloroethane	9.6		ug/L	10.0		96	70-130	0	20	
Chloroform	9.8		ug/L	10.0		98	70-130	2	20	
Chloromethane	8.2		ug/L	10.0		82	70-130	4	20	
cis-1,2-Dichloroethene	10.3		ug/L	10.0		103	70-130	2	20	
cis-1,3-Dichloropropene	9.3		ug/L	10.0		93	70-130	2	20	
Dibromochloromethane	9.7		ug/L	10.0		97	70-130	0	20	
Dibromomethane	10.0		ug/L	10.0		100	70-130	1	20	
Dichlorodifluoromethane	8.7		ug/L	10.0		87	70-130	3	20	
Diethyl Ether	9.8		ug/L	10.0		98	70-130	3	20	
Di-isopropyl ether	9.0		ug/L	10.0		90	70-130	0	20	
Ethyl tertiary-butyl ether	9.0		ug/L	10.0		90	70-130	1	20	
Ethylbenzene	9.5		ug/L	10.0		95	70-130	1	20	
Hexachlorobutadiene	9.4		ug/L	10.0		94	70-130	2	20	
Isopropylbenzene	8.5		ug/L	10.0		85	70-130	1	20	
Methyl tert-Butyl Ether	9.5		ug/L	10.0		95	70-130	1	20	
Methylene Chloride	9.8		ug/L	10.0		98	70-130	0	20	
Naphthalene	8.5		ug/L	10.0		85	70-130	1	20	
n-Butylbenzene	9.2		ug/L	10.0		92	70-130	2	20	
n-Propylbenzene	8.7		ug/L	10.0		87	70-130	2	20	

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8260B Volatile Organic Compounds

##### Batch BF62822 - 5030B

sec-Butylbenzene	9.0		ug/L	10.0		90	70-130	1	20	
Styrene	9.7		ug/L	10.0		97	70-130	0	20	
tert-Butylbenzene	9.3		ug/L	10.0		93	70-130	1	20	
Tertiary-amyl methyl ether	9.3		ug/L	10.0		93	70-130	1	20	
Tetrachloroethene	9.5		ug/L	10.0		95	70-130	1	20	
Tetrahydrofuran	8.1		ug/L	10.0		81	70-130	4	20	
Toluene	9.7		ug/L	10.0		97	70-130	1	20	
trans-1,2-Dichloroethene	9.9		ug/L	10.0		99	70-130	1	20	
trans-1,3-Dichloropropene	8.8		ug/L	10.0		88	70-130	1	20	
Trichloroethene	9.7		ug/L	10.0		97	70-130	0	20	
Trichlorofluoromethane	9.5		ug/L	10.0		95	70-130	0	20	
Vinyl Acetate	8.6		ug/L	10.0		86	70-130	1	20	
Vinyl Chloride	9.1		ug/L	10.0		91	70-130	1	20	
Xylene O	9.6		ug/L	10.0		96	70-130	0	20	
Xylene P,M	19.4		ug/L	20.0		97	70-130	2	20	
Surrogate: 1,2-Dichloroethane-d4	24.9		ug/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	24.0		ug/L	25.0		96	70-130			
Surrogate: Dibromofluoromethane	25.0		ug/L	25.0		100	70-130			
Surrogate: Toluene-d8	24.2		ug/L	25.0		97	70-130			

##### Matrix Spike Source: 0606346-02

1,1,1,2-Tetrachloroethane	8.9		ug/L	10.0	ND	89	70-130			
1,1,1-Trichloroethane	9.8		ug/L	10.0	0.260	95	70-130			
1,1,2,2-Tetrachloroethane	8.4		ug/L	10.0	ND	84	70-130			
1,1,2-Trichloroethane	9.5		ug/L	10.0	ND	95	70-130			
1,1-Dichloroethane	9.3		ug/L	10.0	0.150	92	70-130			
1,1-Dichloroethene	10.4		ug/L	10.0	0.250	102	70-130			
1,1-Dichloropropene	9.4		ug/L	10.0	ND	94	70-130			
1,2,3-Trichlorobenzene	8.3		ug/L	10.0	ND	83	70-130			
1,2,3-Trichloropropane	8.0		ug/L	10.0	ND	80	70-130			
1,2,4-Trichlorobenzene	8.2		ug/L	10.0	ND	82	70-130			
1,2,4-Trimethylbenzene	8.6		ug/L	10.0	ND	86	70-130			
1,2-Dibromo-3-Chloropropane	9.1		ug/L	10.0	ND	91	70-130			
1,2-Dibromoethane	9.2		ug/L	10.0	ND	92	70-130			
1,2-Dichlorobenzene	8.7		ug/L	10.0	ND	87	70-130			
1,2-Dichloroethane	9.5		ug/L	10.0	ND	95	70-130			
1,2-Dichloropropane	8.8		ug/L	10.0	ND	88	70-130			
1,3,5-Trimethylbenzene	8.5		ug/L	10.0	ND	85	70-130			
1,3-Dichlorobenzene	8.5		ug/L	10.0	ND	85	70-130			
1,3-Dichloropropane	9.2		ug/L	10.0	ND	92	70-130			
1,4-Dichlorobenzene	8.3		ug/L	10.0	ND	83	70-130			
1,4-Dioxane - Screen	27.2		ug/L	200	ND	14	70-130			+
1-Chlorohexane	9.1		ug/L	10.0	ND	91	70-130			
2,2-Dichloropropane	9.0		ug/L	10.0	ND	90	70-130			
2-Butanone	49.5		ug/L	50.0	ND	99	70-130			
2-Chlorotoluene	9.1		ug/L	10.0	ND	91	70-130			
2-Hexanone	44.7		ug/L	655 50.0	ND	89	70-130			
4-Chlorotoluene	8.4		ug/L	10.0	ND	84	70-130			

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8260B Volatile Organic Compounds

##### Batch BF62822 - 5030B

4-Isopropyltoluene	8.4		ug/L	10.0	ND	84	70-130			
4-Methyl-2-Pentanone	47.3		ug/L	50.0	ND	95	70-130			
Acetone	49.7		ug/L	50.0	ND	99	70-130			
Benzene	9.2		ug/L	10.0	ND	92	70-130			
Bromobenzene	9.2		ug/L	10.0	ND	92	70-130			
Bromochloromethane	10.3		ug/L	10.0	ND	103	70-130			
Bromodichloromethane	10.1		ug/L	10.0	ND	101	70-130			
Bromoform	9.4		ug/L	10.0	ND	94	70-130			
Bromomethane	8.2		ug/L	10.0	ND	82	70-130			
Carbon Disulfide	9.1		ug/L	10.0	ND	91	70-130			
Carbon Tetrachloride	9.6		ug/L	10.0	ND	96	70-130			
Chlorobenzene	9.2		ug/L	10.0	ND	92	70-130			
Chloroethane	9.5		ug/L	10.0	ND	95	70-130			
Chloroform	9.6		ug/L	10.0	ND	96	70-130			
Chloromethane	7.7		ug/L	10.0	ND	77	70-130			
cis-1,2-Dichloroethene	19.0		ug/L	10.0	10.8	82	70-130			
cis-1,3-Dichloropropene	9.1		ug/L	10.0	ND	91	70-130			
Dibromochloromethane	9.5		ug/L	10.0	ND	95	70-130			
Dibromomethane	9.9		ug/L	10.0	ND	99	70-130			
Dichlorodifluoromethane	8.7		ug/L	10.0	ND	87	70-130			
Diethyl Ether	9.8		ug/L	10.0	ND	98	70-130			
Di-isopropyl ether	8.9		ug/L	10.0	ND	89	70-130			
Ethyl tertiary-butyl ether	9.0		ug/L	10.0	ND	90	70-130			
Ethylbenzene	9.3		ug/L	10.0	ND	93	70-130			
Hexachlorobutadiene	8.2		ug/L	10.0	ND	82	70-130			
Isopropylbenzene	7.9		ug/L	10.0	ND	79	70-130			
Methyl tert-Butyl Ether	9.6		ug/L	10.0	ND	96	70-130			
Methylene Chloride	9.4		ug/L	10.0	ND	94	70-130			
Naphthalene	7.9		ug/L	10.0	ND	79	70-130			
n-Butylbenzene	8.3		ug/L	10.0	ND	83	70-130			
n-Propylbenzene	8.4		ug/L	10.0	ND	84	70-130			
sec-Butylbenzene	8.2		ug/L	10.0	ND	82	70-130			
Styrene	9.4		ug/L	10.0	ND	94	70-130			
tert-Butylbenzene	8.5		ug/L	10.0	ND	85	70-130			
Tertiary-amyl methyl ether	9.4		ug/L	10.0	ND	94	70-130			
Tetrachloroethene	9.9		ug/L	10.0	0.690	92	70-130			
Tetrahydrofuran	8.7		ug/L	10.0	ND	87	70-130			
Toluene	9.6		ug/L	10.0	ND	96	70-130			
trans-1,2-Dichloroethene	9.7		ug/L	10.0	ND	97	70-130			
trans-1,3-Dichloropropene	8.6		ug/L	10.0	ND	86	70-130			
Trichloroethene	11.4		ug/L	10.0	2.31	91	70-130			
Trichlorofluoromethane	9.4		ug/L	10.0	ND	94	70-130			
Vinyl Acetate	8.5		ug/L	10.0	ND	85	70-130			
Vinyl Chloride	9.6		ug/L	10.0	0.580	90	70-130			
Xylene O	9.4		ug/L	10.0	ND	94	70-130			
Xylene P,M	18.8		ug/L	20.0	ND	94	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.3		ug/L	25.0		97	70-130			

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Dependability

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8260B Volatile Organic Compounds

##### Batch BF62822 - 5030B

Surrogate: 4-Bromofluorobenzene	24.8		ug/L	25.0		99	70-130			
Surrogate: Dibromofluoromethane	24.6		ug/L	25.0		98	70-130			
Surrogate: Toluene-d8	24.7		ug/L	25.0		99	70-130			

##### Matrix Spike Dup Source: 0606346-02

1,1,1,2-Tetrachloroethane	9.1		ug/L	10.0	ND	91	70-130	2	20	
1,1,1-Trichloroethane	9.9		ug/L	10.0	0.260	96	70-130	1	20	
1,1,2,2-Tetrachloroethane	8.3		ug/L	10.0	ND	83	70-130	1	20	
1,1,2-Trichloroethane	9.5		ug/L	10.0	ND	95	70-130	0	20	
1,1-Dichloroethane	9.5		ug/L	10.0	0.150	94	70-130	2	20	
1,1-Dichloroethene	10.1		ug/L	10.0	0.250	98	70-130	3	20	
1,1-Dichloropropene	9.5		ug/L	10.0	ND	95	70-130	1	20	
1,2,3-Trichlorobenzene	8.5		ug/L	10.0	ND	85	70-130	2	20	
1,2,3-Trichloropropane	8.1		ug/L	10.0	ND	81	70-130	1	20	
1,2,4-Trichlorobenzene	8.3		ug/L	10.0	ND	83	70-130	1	20	
1,2,4-Trimethylbenzene	8.8		ug/L	10.0	ND	88	70-130	2	20	
1,2-Dibromo-3-Chloropropane	8.9		ug/L	10.0	ND	89	70-130	2	20	
1,2-Dibromoethane	9.2		ug/L	10.0	ND	92	70-130	0	20	
1,2-Dichlorobenzene	8.9		ug/L	10.0	ND	89	70-130	2	20	
1,2-Dichloroethane	9.5		ug/L	10.0	ND	95	70-130	0	20	
1,2-Dichloropropane	9.0		ug/L	10.0	ND	90	70-130	2	20	
1,3,5-Trimethylbenzene	8.7		ug/L	10.0	ND	87	70-130	2	20	
1,3-Dichlorobenzene	8.5		ug/L	10.0	ND	85	70-130	0	20	
1,3-Dichloropropane	9.2		ug/L	10.0	ND	92	70-130	0	20	
1,4-Dichlorobenzene	8.6		ug/L	10.0	ND	86	70-130	4	20	
1,4-Dioxane - Screen	103		ug/L	200	ND	52	70-130	116	20	+
1-Chlorohexane	9.4		ug/L	10.0	ND	94	70-130	3	20	
2,2-Dichloropropane	9.3		ug/L	10.0	ND	93	70-130	3	20	
2-Butanone	49.4		ug/L	50.0	ND	99	70-130	0.2	20	
2-Chlorotoluene	8.4		ug/L	10.0	ND	84	70-130	8	20	
2-Hexanone	44.6		ug/L	50.0	ND	89	70-130	0.2	20	
4-Chlorotoluene	8.6		ug/L	10.0	ND	86	70-130	2	20	
4-Isopropyltoluene	8.6		ug/L	10.0	ND	86	70-130	2	20	
4-Methyl-2-Pentanone	46.8		ug/L	50.0	ND	94	70-130	1	20	
Acetone	47.8		ug/L	50.0	ND	96	70-130	4	20	
Benzene	9.5		ug/L	10.0	ND	95	70-130	3	20	
Bromobenzene	9.3		ug/L	10.0	ND	93	70-130	1	20	
Bromochloromethane	10.4		ug/L	10.0	ND	104	70-130	1	20	
Bromodichloromethane	10.2		ug/L	10.0	ND	102	70-130	1	20	
Bromoform	9.6		ug/L	10.0	ND	96	70-130	2	20	
Bromomethane	9.3		ug/L	10.0	ND	93	70-130	13	20	
Carbon Disulfide	9.4		ug/L	10.0	ND	94	70-130	3	20	
Carbon Tetrachloride	9.8		ug/L	10.0	ND	98	70-130	2	20	
Chlorobenzene	9.4		ug/L	10.0	ND	94	70-130	2	20	
Chloroethane	9.7		ug/L	10.0	ND	97	70-130	2	20	
Chloroform	9.8		ug/L	10.0	ND	98	70-130	2	20	
Chloromethane	8.0		ug/L	10.0	ND	80	70-130	4	20	

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8260B Volatile Organic Compounds

##### Batch BF62822 - 5030B

cis-1,2-Dichloroethene	19.4		ug/L	10.0	10.8	86	70-130	2	20	
cis-1,3-Dichloropropene	9.2		ug/L	10.0	ND	92	70-130	1	20	
Dibromochloromethane	9.6		ug/L	10.0	ND	96	70-130	1	20	
Dibromomethane	9.9		ug/L	10.0	ND	99	70-130	0	20	
Dichlorodifluoromethane	8.8		ug/L	10.0	ND	88	70-130	1	20	
Diethyl Ether	10.0		ug/L	10.0	ND	100	70-130	2	20	
Di-isopropyl ether	9.1		ug/L	10.0	ND	91	70-130	2	20	
Ethyl tertiary-butyl ether	9.1		ug/L	10.0	ND	91	70-130	1	20	
Ethylbenzene	9.5		ug/L	10.0	ND	95	70-130	2	20	
Hexachlorobutadiene	8.5		ug/L	10.0	ND	85	70-130	4	20	
Isopropylbenzene	8.0		ug/L	10.0	ND	80	70-130	1	20	
Methyl tert-Butyl Ether	9.6		ug/L	10.0	ND	96	70-130	0	20	
Methylene Chloride	9.6		ug/L	10.0	ND	96	70-130	2	20	
Naphthalene	8.2		ug/L	10.0	ND	82	70-130	4	20	
n-Butylbenzene	8.4		ug/L	10.0	ND	84	70-130	1	20	
n-Propylbenzene	9.1		ug/L	10.0	ND	91	70-130	8	20	
sec-Butylbenzene	8.4		ug/L	10.0	ND	84	70-130	2	20	
Styrene	9.5		ug/L	10.0	ND	95	70-130	1	20	
tert-Butylbenzene	8.6		ug/L	10.0	ND	86	70-130	1	20	
Tertiary-amyl methyl ether	9.4		ug/L	10.0	ND	94	70-130	0	20	
Tetrachloroethene	10.1		ug/L	10.0	0.690	94	70-130	2	20	
Tetrahydrofuran	8.1		ug/L	10.0	ND	81	70-130	7	20	
Toluene	9.8		ug/L	10.0	ND	98	70-130	2	20	
trans-1,2-Dichloroethene	9.8		ug/L	10.0	ND	98	70-130	1	20	
trans-1,3-Dichloropropene	8.7		ug/L	10.0	ND	87	70-130	1	20	
Trichloroethene	11.5		ug/L	10.0	2.31	92	70-130	0.9	20	
Trichlorofluoromethane	9.4		ug/L	10.0	ND	94	70-130	0	20	
Vinyl Acetate	8.5		ug/L	10.0	ND	85	70-130	0	20	
Vinyl Chloride	9.9		ug/L	10.0	0.580	93	70-130	3	20	
Xylene O	9.6		ug/L	10.0	ND	96	70-130	2	20	
Xylene P,M	19.2		ug/L	20.0	ND	96	70-130	2	20	
Surrogate: 1,2-Dichloroethane-d4	24.5		ug/L	25.0		98	70-130			
Surrogate: 4-Bromofluorobenzene	24.8		ug/L	25.0		99	70-130			
Surrogate: Dibromofluoromethane	24.5		ug/L	25.0		98	70-130			
Surrogate: Toluene-d8	24.6		ug/L	25.0		98	70-130			

##### Batch BF62823 - 5030B

Blank										
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L							
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
1,1-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	1.0	ug/L							
1,1-Dichloropropene	ND	2.0	ug/L							
1,2,3-Trichlorobenzene	ND	1.0	ug/L							
1,2,3-Trichloropropane	ND	1.0	ug/L							

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8260B Volatile Organic Compounds

##### Batch BF62823 - 5030B

1,2,4-Trichlorobenzene	ND	1.0	ug/L							
1,2,4-Trimethylbenzene	ND	1.0	ug/L							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							
1,2-Dichlorobenzene	ND	1.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
1,3,5-Trimethylbenzene	ND	1.0	ug/L							
1,3-Dichlorobenzene	ND	1.0	ug/L							
1,3-Dichloropropane	ND	1.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
1,4-Dioxane - Screen	ND	500	ug/L							
1-Chlorohexane	ND	1.0	ug/L							
2,2-Dichloropropane	ND	1.0	ug/L							
2-Butanone	ND	25.0	ug/L							
2-Chlorotoluene	ND	1.0	ug/L							
2-Hexanone	ND	10.0	ug/L							
4-Chlorotoluene	ND	1.0	ug/L							
4-Isopropyltoluene	ND	1.0	ug/L							
4-Methyl-2-Pentanone	ND	25.0	ug/L							
Acetone	ND	25.0	ug/L							
Benzene	ND	1.0	ug/L							
Bromobenzene	ND	2.0	ug/L							
Bromochloromethane	ND	1.0	ug/L							
Bromodichloromethane	ND	1.0	ug/L							
Bromoform	ND	1.0	ug/L							
Bromomethane	ND	2.0	ug/L							
Carbon Disulfide	ND	1.0	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
Chlorobenzene	ND	1.0	ug/L							
Chloroethane	ND	2.0	ug/L							
Chloroform	ND	1.0	ug/L							
Chloromethane	ND	2.0	ug/L							
cis-1,2-Dichloroethene	ND	1.0	ug/L							
cis-1,3-Dichloropropene	ND	0.5	ug/L							
Dibromochloromethane	ND	1.0	ug/L							
Dibromomethane	ND	1.0	ug/L							
Dichlorodifluoromethane	ND	2.0	ug/L							
Diethyl Ether	ND	1.0	ug/L							
Di-isopropyl ether	ND	1.0	ug/L							
Ethyl tertiary-butyl ether	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Hexachlorobutadiene	ND	0.6	ug/L							
Isopropylbenzene	ND	1.0	ug/L							
Methyl tert-Butyl Ether	ND	1.0	ug/L							
Methylene Chloride	ND	5.0	ug/L							
Naphthalene	ND	1.0	ug/L							

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8260B Volatile Organic Compounds

##### Batch BF62823 - 5030B

n-Butylbenzene	ND	1.0	ug/L							
n-Propylbenzene	ND	1.0	ug/L							
sec-Butylbenzene	ND	1.0	ug/L							
Styrene	ND	1.0	ug/L							
tert-Butylbenzene	ND	1.0	ug/L							
Tertiary-amyI methyl ether	ND	1.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							
Tetrahydrofuran	ND	5.0	ug/L							
Toluene	ND	1.0	ug/L							
trans-1,2-Dichloroethene	ND	1.0	ug/L							
trans-1,3-Dichloropropene	ND	0.5	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	2.0	ug/L							
Vinyl Acetate	ND	5.0	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylene O	ND	1.0	ug/L							
Xylene P,M	ND	2.0	ug/L							
Surrogate: 1,2-Dichloroethane-d4	24.2		ug/L	25.0		97	70-130			
Surrogate: 4-Bromofluorobenzene	24.6		ug/L	25.0		98	70-130			
Surrogate: Dibromofluoromethane	24.9		ug/L	25.0		100	70-130			
Surrogate: Toluene-d8	24.5		ug/L	25.0		98	70-130			

##### LCS

1,1,1,2-Tetrachloroethane	9.8		ug/L	10.0		98	70-130			
1,1,1-Trichloroethane	10.2		ug/L	10.0		102	70-130			
1,1,2,2-Tetrachloroethane	9.4		ug/L	10.0		94	70-130			
1,1,2-Trichloroethane	10.2		ug/L	10.0		102	70-130			
1,1-Dichloroethane	9.9		ug/L	10.0		99	70-130			
1,1-Dichloroethene	11.0		ug/L	10.0		110	70-130			
1,1-Dichloropropene	10.0		ug/L	10.0		100	70-130			
1,2,3-Trichlorobenzene	9.8		ug/L	10.0		98	70-130			
1,2,3-Trichloropropane	9.0		ug/L	10.0		90	70-130			
1,2,4-Trichlorobenzene	9.7		ug/L	10.0		97	70-130			
1,2,4-Trimethylbenzene	10.0		ug/L	10.0		100	70-130			
1,2-Dibromo-3-Chloropropane	10.3		ug/L	10.0		103	70-130			
1,2-Dibromoethane	10.0		ug/L	10.0		100	70-130			
1,2-Dichlorobenzene	10.1		ug/L	10.0		101	70-130			
1,2-Dichloroethane	10.3		ug/L	10.0		103	70-130			
1,2-Dichloropropane	9.6		ug/L	10.0		96	70-130			
1,3,5-Trimethylbenzene	9.9		ug/L	10.0		99	70-130			
1,3-Dichlorobenzene	9.7		ug/L	10.0		97	70-130			
1,3-Dichloropropane	9.9		ug/L	10.0		99	70-130			
1,4-Dichlorobenzene	9.6		ug/L	10.0		96	70-130			
1,4-Dioxane - Screen	271		ug/L	200		136	70-130			+
1-Chlorohexane	10.0		ug/L	10.0		100	70-130			
2,2-Dichloropropane	9.7		ug/L	10.0		97	70-130			
2-Butanone	53.2		ug/L	50.0	660	106	70-130			
2-Chlorotoluene	10.4		ug/L	10.0		104	70-130			

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>8260B Volatile Organic Compounds</b>										
<b>Batch BF62823 - 50308</b>										
2-Hexanone	48.0		ug/L	50.0		96	70-130			
4-Chlorotoluene	9.6		ug/L	10.0		96	70-130			
4-Isopropyltoluene	9.6		ug/L	10.0		96	70-130			
4-Methyl-2-Pentanone	49.3		ug/L	50.0		99	70-130			
Acetone	49.8		ug/L	50.0		100	70-130			
Benzene	10.0		ug/L	10.0		100	70-130			
Bromobenzene	10.6		ug/L	10.0		106	70-130			
Bromochloromethane	11.0		ug/L	10.0		110	70-130			
Bromodichloromethane	10.9		ug/L	10.0		109	70-130			
Bromoform	10.3		ug/L	10.0		103	70-130			
Bromomethane	9.8		ug/L	10.0		98	70-130			
Carbon Disulfide	9.8		ug/L	10.0		98	70-130			
Carbon Tetrachloride	10.4		ug/L	10.0		104	70-130			
Chlorobenzene	10.1		ug/L	10.0		101	70-130			
Chloroethane	10.3		ug/L	10.0		103	70-130			
Chloroform	10.4		ug/L	10.0		104	70-130			
Chloromethane	8.6		ug/L	10.0		86	70-130			
cis-1,2-Dichloroethene	10.9		ug/L	10.0		109	70-130			
cis-1,3-Dichloropropene	9.8		ug/L	10.0		98	70-130			
Dibromochloromethane	10.4		ug/L	10.0		104	70-130			
Dibromomethane	10.7		ug/L	10.0		107	70-130			
Dichlorodifluoromethane	9.4		ug/L	10.0		94	70-130			
Diethyl Ether	10.4		ug/L	10.0		104	70-130			
Di-isopropyl ether	9.6		ug/L	10.0		96	70-130			
Ethyl tertiary-butyl ether	9.7		ug/L	10.0		97	70-130			
Ethylbenzene	10.2		ug/L	10.0		102	70-130			
Hexachlorobutadiene	9.6		ug/L	10.0		96	70-130			
Isopropylbenzene	9.1		ug/L	10.0		91	70-130			
Methyl tert-Butyl Ether	10.3		ug/L	10.0		103	70-130			
Methylene Chloride	10.2		ug/L	10.0		102	70-130			
Naphthalene	9.4		ug/L	10.0		94	70-130			
n-Butylbenzene	9.6		ug/L	10.0		96	70-130			
n-Propylbenzene	9.8		ug/L	10.0		98	70-130			
sec-Butylbenzene	9.5		ug/L	10.0		95	70-130			
Styrene	10.2		ug/L	10.0		102	70-130			
tert-Butylbenzene	9.8		ug/L	10.0		98	70-130			
Tertiary-amyl methyl ether	10.1		ug/L	10.0		101	70-130			
Tetrachloroethene	10.1		ug/L	10.0		101	70-130			
Tetrahydrofuran	9.4		ug/L	10.0		94	70-130			
Toluene	10.2		ug/L	10.0		102	70-130			
trans-1,2-Dichloroethene	10.4		ug/L	10.0		104	70-130			
trans-1,3-Dichloropropene	9.3		ug/L	10.0		93	70-130			
Trichloroethene	10.1		ug/L	10.0		101	70-130			
Trichlorofluoromethane	10.0		ug/L	10.0		100	70-130			
Vinyl Acetate	9.4		ug/L	10.0		94	70-130			
Vinyl Chloride	9.7		ug/L	10.0		97	70-130			
Xylene O	10.2		ug/L	10.0		102	70-130			

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>8260B Volatile Organic Compounds</b>										
<b>Batch BF62823 - 5030B</b>										
Xylene P,M	20.4		ug/L	20.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	25.0		ug/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	24.2		ug/L	25.0		97	70-130			
Surrogate: Dibromofluoromethane	25.0		ug/L	25.0		100	70-130			
Surrogate: Toluene-d8	24.4		ug/L	25.0		98	70-130			
<b>LCS Dup</b>										
1,1,1,2-Tetrachloroethane	9.4		ug/L	10.0		94	70-130	4	20	
1,1,1-Trichloroethane	9.8		ug/L	10.0		98	70-130	4	20	
1,1,2,2-Tetrachloroethane	9.1		ug/L	10.0		91	70-130	3	20	
1,1,2-Trichloroethane	9.8		ug/L	10.0		98	70-130	4	20	
1,1-Dichloroethane	9.5		ug/L	10.0		95	70-130	4	20	
1,1-Dichloroethene	10.4		ug/L	10.0		104	70-130	6	20	
1,1-Dichloropropene	9.5		ug/L	10.0		95	70-130	5	20	
1,2,3-Trichlorobenzene	9.3		ug/L	10.0		93	70-130	5	20	
1,2,3-Trichloropropane	8.6		ug/L	10.0		86	70-130	5	20	
1,2,4-Trichlorobenzene	9.2		ug/L	10.0		92	70-130	5	20	
1,2,4-Trimethylbenzene	9.5		ug/L	10.0		95	70-130	5	20	
1,2-Dibromo-3-Chloropropane	9.8		ug/L	10.0		98	70-130	5	20	
1,2-Dibromoethane	9.5		ug/L	10.0		95	70-130	5	20	
1,2-Dichlorobenzene	9.6		ug/L	10.0		96	70-130	5	20	
1,2-Dichloroethane	9.7		ug/L	10.0		97	70-130	6	20	
1,2-Dichloropropane	9.1		ug/L	10.0		91	70-130	5	20	
1,3,5-Trimethylbenzene	9.4		ug/L	10.0		94	70-130	5	20	
1,3-Dichlorobenzene	9.2		ug/L	10.0		92	70-130	5	20	
1,3-Dichloropropane	9.5		ug/L	10.0		95	70-130	4	20	
1,4-Dichlorobenzene	9.2		ug/L	10.0		92	70-130	4	20	
1,4-Dioxane - Screen	158		ug/L	200		79	70-130	53	20	+
1-Chlorohexane	9.1		ug/L	10.0		91	70-130	9	20	
2,2-Dichloropropane	9.0		ug/L	10.0		90	70-130	7	20	
2-Butanone	51.4		ug/L	50.0		103	70-130	3	20	
2-Chlorotoluene	10.5		ug/L	10.0		105	70-130	1	20	
2-Hexanone	45.6		ug/L	50.0		91	70-130	5	20	
4-Chlorotoluene	9.3		ug/L	10.0		93	70-130	3	20	
4-Isopropyltoluene	9.2		ug/L	10.0		92	70-130	4	20	
4-Methyl-2-Pentanone	48.0		ug/L	50.0		96	70-130	3	20	
Acetone	45.1		ug/L	50.0		90	70-130	10	20	
Benzene	9.5		ug/L	10.0		95	70-130	5	20	
Bromobenzene	10.1		ug/L	10.0		101	70-130	5	20	
Bromochloromethane	10.6		ug/L	10.0		106	70-130	4	20	
Bromodichloromethane	10.3		ug/L	10.0		103	70-130	6	20	
Bromoform	9.7		ug/L	10.0		97	70-130	6	20	
Bromomethane	9.7		ug/L	10.0		97	70-130	1	20	
Carbon Disulfide	9.3		ug/L	10.0		93	70-130	5	20	
Carbon Tetrachloride	9.8		ug/L	10.0		98	70-130	6	20	
Chlorobenzene	9.6		ug/L	10.0		96	70-130	5	20	
Chloroethane	9.7		ug/L	10.0		97	70-130	6	20	
Chloroform	9.9		ug/L	10.0		99	70-130	5	20	

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8260B Volatile Organic Compounds

##### Batch BF62823 - 5030B

Chloromethane	8.2		ug/L	10.0		82	70-130	5	20	
cis-1,2-Dichloroethene	10.3		ug/L	10.0		103	70-130	6	20	
cis-1,3-Dichloropropene	9.3		ug/L	10.0		93	70-130	5	20	
Dibromochloromethane	9.8		ug/L	10.0		98	70-130	6	20	
Dibromomethane	10.2		ug/L	10.0		102	70-130	5	20	
Dichlorodifluoromethane	8.6		ug/L	10.0		86	70-130	9	20	
Diethyl Ether	9.4		ug/L	10.0		94	70-130	10	20	
Di-isopropyl ether	9.1		ug/L	10.0		91	70-130	5	20	
Ethyl tertiary-butyl ether	9.2		ug/L	10.0		92	70-130	5	20	
Ethylbenzene	9.6		ug/L	10.0		96	70-130	6	20	
Hexachlorobutadiene	9.6		ug/L	10.0		96	70-130	0	20	
Isopropylbenzene	8.6		ug/L	10.0		86	70-130	6	20	
Methyl tert-Butyl Ether	9.8		ug/L	10.0		98	70-130	5	20	
Methylene Chloride	9.8		ug/L	10.0		98	70-130	4	20	
Naphthalene	8.8		ug/L	10.0		88	70-130	7	20	
n-Butylbenzene	9.1		ug/L	10.0		91	70-130	5	20	
n-Propylbenzene	8.8		ug/L	10.0		88	70-130	11	20	
sec-Butylbenzene	9.1		ug/L	10.0		91	70-130	4	20	
Styrene	9.6		ug/L	10.0		96	70-130	6	20	
tert-Butylbenzene	9.3		ug/L	10.0		93	70-130	5	20	
Tertiary-amyl methyl ether	9.7		ug/L	10.0		97	70-130	4	20	
Tetrachloroethene	9.5		ug/L	10.0		95	70-130	6	20	
Tetrahydrofuran	8.7		ug/L	10.0		87	70-130	8	20	
Toluene	9.8		ug/L	10.0		98	70-130	4	20	
trans-1,2-Dichloroethene	9.8		ug/L	10.0		98	70-130	6	20	
trans-1,3-Dichloropropene	8.8		ug/L	10.0		88	70-130	6	20	
Trichloroethene	9.6		ug/L	10.0		96	70-130	5	20	
Trichlorofluoromethane	9.4		ug/L	10.0		94	70-130	6	20	
Vinyl Acetate	9.0		ug/L	10.0		90	70-130	4	20	
Vinyl Chloride	9.1		ug/L	10.0		91	70-130	6	20	
Xylene O	9.6		ug/L	10.0		96	70-130	6	20	
Xylene P,M	19.3		ug/L	20.0		96	70-130	6	20	
Surrogate: 1,2-Dichloroethane-d4	25.2		ug/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.1		ug/L	25.0		96	70-130			
Surrogate: Dibromofluoromethane	25.0		ug/L	25.0		100	70-130			
Surrogate: Toluene-d8	24.2		ug/L	25.0		97	70-130			

#### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

##### Batch BF62310 - 3510C

##### Blank

2-Methylnaphthalene	ND	0.20	ug/L							
Acenaphthene	ND	0.20	ug/L							
Acenaphthylene	ND	0.20	ug/L							
Anthracene	ND	0.20	ug/L							
Benzo(a)anthracene	ND	0.20	ug/L							
Benzo(a)pyrene	ND	0.20	ug/L							
Benzo(b)fluoranthene	ND	0.20	ug/L							

663

# Volatile Organics Calibration Data



## ANALYSIS SEQUENCE

BPF0045

Instrument: VMS4

Calibration ID: ~~0605037~~ 2060606

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0045-TUN1	QC		1		6F06045		
BPF0045-CAL1	QC		2		6F06046	6E24035	
BPF0045-CAL2	QC		3		6F06047	6E24035	
BPF0045-CAL3	QC		4		6F06048	6E24035	
BPF0045-CAL4	QC		5		6F06049	6E24035	
BPF0045-CAL5	QC		6		6F06050	6E24035	
BPF0045-CAL6	QC		7		6F06051	6E24035	
BPF0045-SCV1	QC		8		6F06053	6E24035	

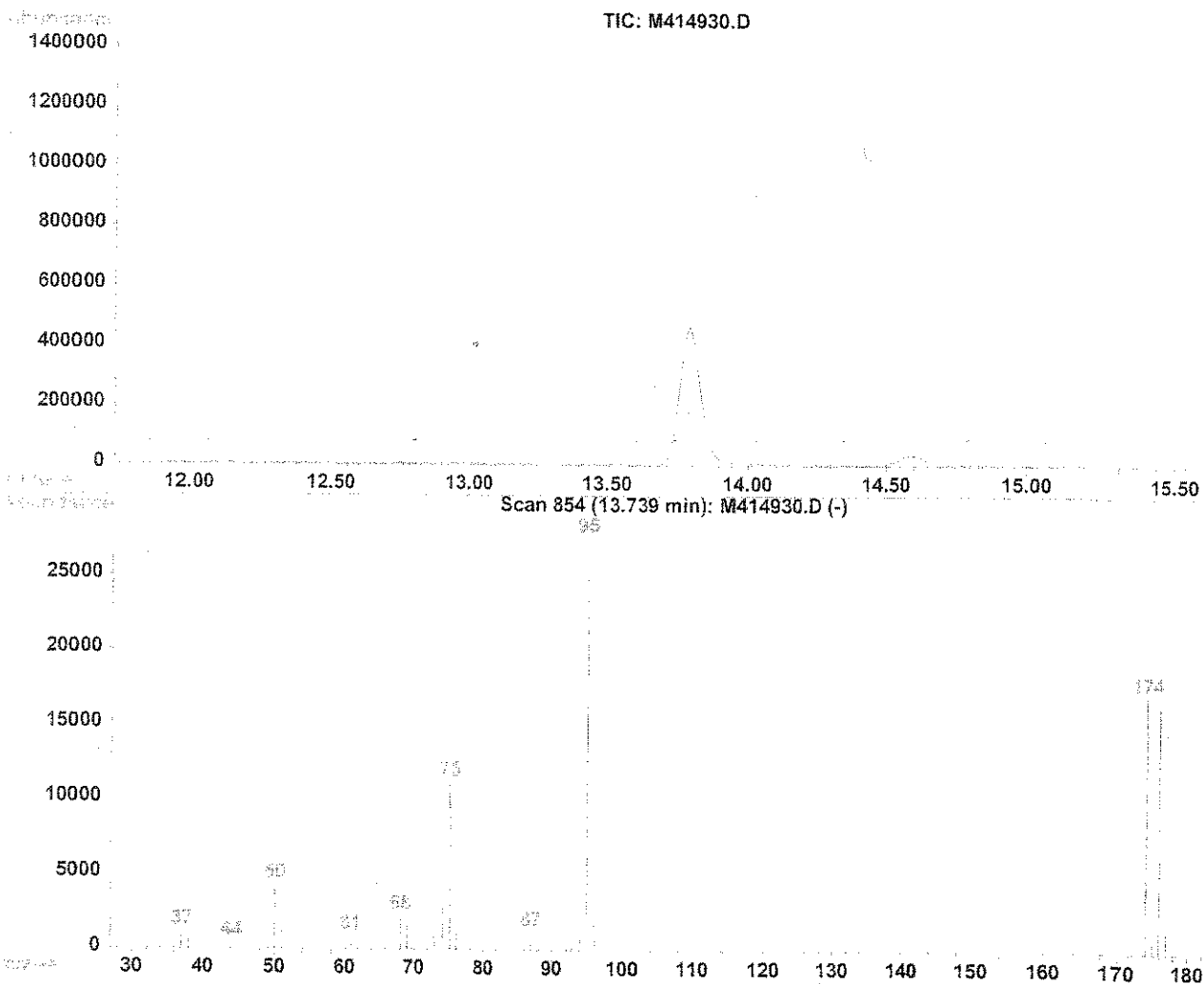
Samples Loaded By

Date

Data Processed By

Date

Data File : Q:/VOA/MS4\_MH/MH0606/MH060606\M414930.D Vial: 1  
 Acq On : 6 Jun 2006 8:26 am Operator: MD  
 Sample : BPF0045-TUN1 Inst : VOA MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Method : C:\HPCHEM\1\METHODS\LO052606.M (RTE Integrator)  
 Title : Element ID: 0605024



## Spectrum Information: Scan 854

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result
50	95	15	40	15.5	4266	PASS
75	95	30	60	40.5	11154	PASS
95	95	100	100	100.0	27546	PASS
96	95	5	9	7.7	2125	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	62.0	17069	PASS
175	174	5	9	8.2	1407	PASS
176	174	95	101	96.1	16395	PASS
177	176	5	9	8.2	1348	PASS

## Response Factor Report VOA\_MS4

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0605024  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Initial Calibration

## Calibration Files

25 =M414931.D 10 =M414932.D 5 =M414933.D  
 2.5 =M414934.D 50 =M414935.D 100 =M414936.D

Compound	25	10	5	2.5	50	100	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----							
2) Dichlorodifluoromet	0.310	0.311	0.354	0.399	0.307	0.317	0.333	11.03
3) Chloromethane	0.142	0.143	0.167	0.185	0.147	0.167	0.158	10.84
4) Vinyl Chloride	0.162	0.162	0.185	0.201	0.164	0.166	0.174	9.37
5) Bromomethane	0.147	0.153	0.181	0.191	0.143	0.143	0.160	13.12
6) Chloroethane	0.085	0.087	0.104	0.109	0.066	0.051	0.084	26.41
7) Trichlorofluorometh	0.540	0.544	0.628	0.678	0.544	0.567	0.584	9.74
8) Diethyl ether	0.098	0.098	0.113	0.120	0.101	0.102	0.105	8.63
9) Acrolein	0.019	0.020	0.025		0.020	0.019	0.021	11.91
10) 1,1,2-Trichloro-1,2	0.539	0.541	0.622	0.667	0.531	0.549	0.575	9.74
11) Acetone	0.008	0.008	0.011	0.012	0.009	0.009	0.009	13.32
12) Iodomethane	0.539	0.504	0.598	0.626	0.619	0.548	0.572	8.64
13) Carbon Disulfide	0.575	0.582	0.676	0.734	0.572	0.596	0.622	10.74
14) 1,1-Dichloroethene	0.230	0.235	0.269	0.291	0.227	0.230	0.247	10.87
15) Allyl Chloride	0.233	0.236	0.273	0.295	0.231	0.216	0.248	12.19
16) Methyl Acetate	0.088	0.091	0.125		0.096	0.093	0.099	15.44
17) Methylene Chloride	0.219	0.241	0.305	0.349	0.217	0.220	0.259	21.44
18) Tertiary-butyl Alco	0.015	0.016	0.020	0.029	0.017	0.017	0.019	26.87
19) Methyl tert-Butyl E	0.394	0.416	0.459	0.462	0.396	0.420	0.425	6.98
20) Acrylonitrile	0.033	0.036	0.039	0.040	0.035	0.035	0.036	8.21
21) trans-1,2-Dichloroe	0.264	0.284	0.300	0.322	0.265	0.276	0.285	7.91
22) 1,1-Dichloroethane	0.424	0.426	0.490	0.526	0.429	0.444	0.456	9.24
23) Chloroprene	0.260	0.259	0.294	0.314	0.263	0.273	0.277	8.03
24) Vinyl Acetate	0.638	0.643	0.758	0.798	0.657	0.660	0.692	9.85
25) Di-isopropyl ether	0.631	0.634	0.733	0.790	0.639	0.654	0.680	9.67
26) Ethyl tertiary-buty	0.580	0.578	0.665	0.714	0.596	0.613	0.624	8.69
27) 2-Butanone	0.016	0.016	0.020	0.021	0.018	0.017	0.018	10.65
28) cis-1,2 Dichloroeth	0.302	0.302	0.342	0.367	0.305	0.314	0.322	8.31
29) 2,2-Dichloropropane	0.366	0.364	0.416	0.463	0.358	0.375	0.390	10.59
30) Methyl Acrylate	0.167	0.168	0.207	0.209	0.182	0.178	0.185	10.03
31) Methacrylonitrile	0.092	0.101	0.123	0.130	0.101	0.099	0.108	14.21
32) Bromochloromethane	0.226	0.227	0.262	0.282	0.228	0.224	0.241	10.10
33) Tetrahydrofuran	0.045	0.047	0.058		0.047	0.045	0.048	11.66
34) Chloroform	0.534	0.530	0.610	0.660	0.542	0.566	0.574	8.99
35) 1,1,1-Trichloroetha	0.518	0.516	0.600	0.651	0.528	0.550	0.560	9.67
36) S Dibromofluoromethan	0.691	0.703	0.824	0.919	0.698	0.715	0.758	12.28
37) Cyclohexane	0.298	0.294	0.344	0.366	0.288	0.286	0.313	10.86
38) 1-Chlorobutane	0.372	0.388	0.442	0.478	0.387	0.404	0.412	9.77
39) 1,1-Dichloropropene	0.362	0.367	0.421	0.458	0.371	0.373	0.392	9.88
40) Carbon Tetrachlorid	0.563	0.563	0.659	0.720	0.577	0.603	0.614	10.27
41) Benzene	0.655	0.651	0.762	0.820	0.665	0.686	0.707	9.76
42) S 1,2-Dichloroethane-	0.224	0.226	0.267	0.293	0.229	0.236	0.246	11.34
43) 1,2-Dichloroethane	0.240	0.237	0.269	0.291	0.250	0.256	0.257	7.82
44) Tertiary-amyl methy	0.530	0.525	0.609	0.649	0.555	0.559	0.571	8.50

(#) = Out of Range

667

LO060606.M

Tue Jun 06 12:26:52 2006

MS4

Page 1

## Response Factor Report VOA\_MS4

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0605024  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Initial Calibration

## Calibration Files

25 =M414931.D 10 =M414932.D 5 =M414933.D  
 2.5 =M414934.D 50 =M414935.D 100 =M414936.D

Compound	25	10	5	2.5	50	100	Avg	%RSD
45) Trichloroethene	0.384	0.382	0.444	0.481	0.390	0.403	0.414	9.65
46) Methyl Cyclohexane	0.374	0.371	0.429	0.454	0.380	0.391	0.400	8.43
47) 1,2-Dichloropropane	0.266	0.263	0.304	0.332	0.270	0.276	0.285	9.58
48) Dibromomethane	0.314	0.310	0.362	0.387	0.323	0.326	0.337	9.11
49) 1,4-Dioxane	0.002	0.002	0.003	0.004	0.003	0.003	0.003	21.57
50) Methyl Methacrylate	0.167	0.165	0.198	0.209	0.175	0.173	0.181	9.87
51) Bromodichloromethan	0.553	0.537	0.615	0.683	0.556	0.575	0.587	9.26
52) 2-Nitropropane	0.042	0.043	0.053	0.056	0.047	0.045	0.048	11.96
53) 2-Chloroethyl vinyl	0.096	0.103	0.126	0.133	0.093	0.080	0.105	19.23
54) 4-Methyl-2-Pentanon	0.076	0.077	0.095	0.105	0.084	0.080	0.086	13.45
55) cis-1,3-Dichloropro	0.412	0.401	0.458	0.502	0.415	0.426	0.436	8.69
56) Toluene	0.511	0.500	0.579	0.634	0.512	0.533	0.545	9.54
57) trans-1,3-Dichlorop	0.342	0.332	0.383	0.410	0.352	0.359	0.363	8.01
58) 1,1,2-Trichloroetha	0.228	0.225	0.269	0.286	0.235	0.235	0.246	10.21
59) I Chlorobenzene-d5	-----ISTD-----							
60) S Toluene-d8 (SURR)	1.009	1.001	1.152	1.264	1.011	1.062	1.083	9.72
61) 2-Hexanone	0.147	0.155	0.191	0.225	0.165	0.162	0.174	16.70
62) Ethyl Methacrylate	0.348	0.351	0.415	0.437	0.366	0.366	0.380	9.64
63) 1,3-Dichloropropane	0.428	0.428	0.495	0.524	0.443	0.455	0.462	8.47
64) Tetrachloroethene	0.457	0.454	0.522	0.572	0.460	0.477	0.490	9.70
65) Dibromochloromethan	0.744	0.728	0.843	0.909	0.763	0.794	0.797	8.59
66) 1,2-Dibromoethane	0.562	0.561	0.649	0.691	0.584	0.595	0.607	8.59
67) 1-Chlorohexane	0.479	0.482	0.557	0.594	0.482	0.499	0.516	9.39
68) Chlorobenzene	0.871	0.862	0.991	1.077	0.872	0.911	0.931	9.25
69) 1,1,1,2-Tetrachloro	0.498	0.503	0.591	0.647	0.500	0.522	0.543	11.40
70) Ethylbenzene	1.216	1.191	1.367	1.504	1.210	1.264	1.292	9.42
71) Xylene P,M	0.499	0.494	0.571	0.621	0.500	0.519	0.534	9.61
72) Xylene O	0.471	0.476	0.543	0.596	0.473	0.488	0.508	10.00
73) Styrene	0.819	0.804	0.918	0.999	0.819	0.850	0.868	8.76
74) Bromoform	0.541	0.526	0.617	0.661	0.570	0.583	0.583	8.53
75) cis-1,4-Dichloro-2-	0.111	0.127	0.112	0.119	0.113	0.110	0.115	5.84
76) S Bromofluorobenzene	0.684	0.680	0.783	0.873	0.679	0.702	0.733	10.80
77) I 1,4 Dichlorobenzene-D	-----ISTD-----							
78) Isopropylbenzene	2.395	2.382	2.735	3.010	2.412	2.587	2.587	9.64
79) Trans-1,4-Dichloro-	0.145	0.138	0.159	0.171	0.156	0.163	0.155	7.79
80) 1,2,3-Trichloroprop	0.653	0.653	0.852	0.861	0.705	0.768	0.748	12.53
81) Bromobenzene	0.842	0.836	0.961	1.058	0.856	0.907	0.910	9.54
82) 1,1,2,2-Tetrachloro	0.864	0.870	1.053	1.256	0.916	0.933	0.982	15.32
83) n-Propylbenzene	3.166	3.070	3.512	3.848	3.101	3.185	3.314	9.24
84) 2-Chlorotoluene	1.422	1.484	1.746	1.895	1.493	1.709	1.625	11.45
85) 4-Chlorotoluene	2.010	2.012	2.291	2.677	1.998	2.131	2.186	12.13
86) 1,3,5-Trimethylbenz	1.963	1.949	2.275	2.505	1.973	2.102	2.128	10.45
87) Pentachloroethane	2.772	2.760	3.190	3.550	2.776	2.916	2.994	10.62

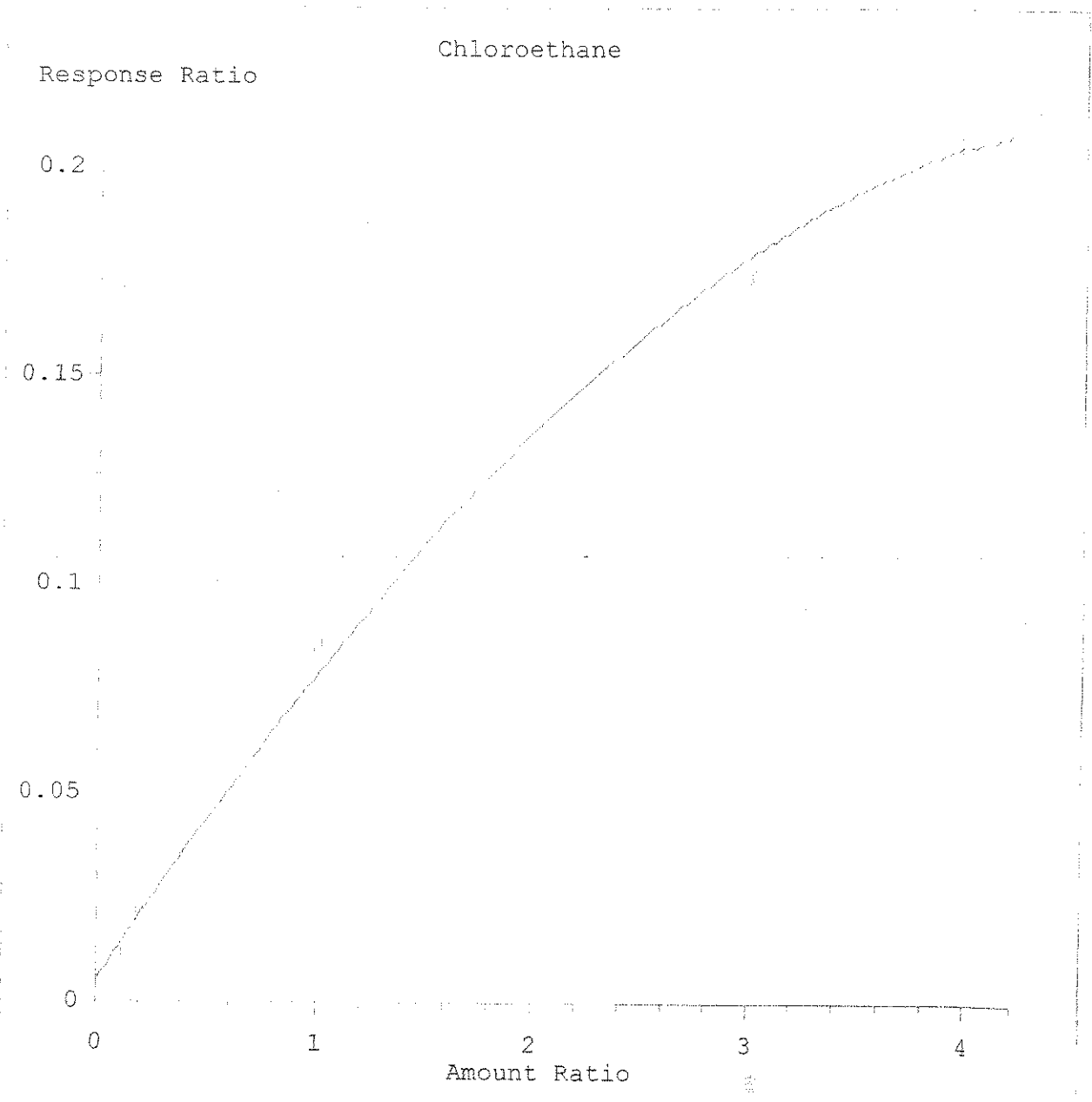
Response Factor Report VOA\_MS4

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0605024  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Initial Calibration

Calibration Files

25 =M414931.D 10 =M414932.D 5 =M414933.D  
 2.5 =M414934.D 50 =M414935.D 100 =M414936.D

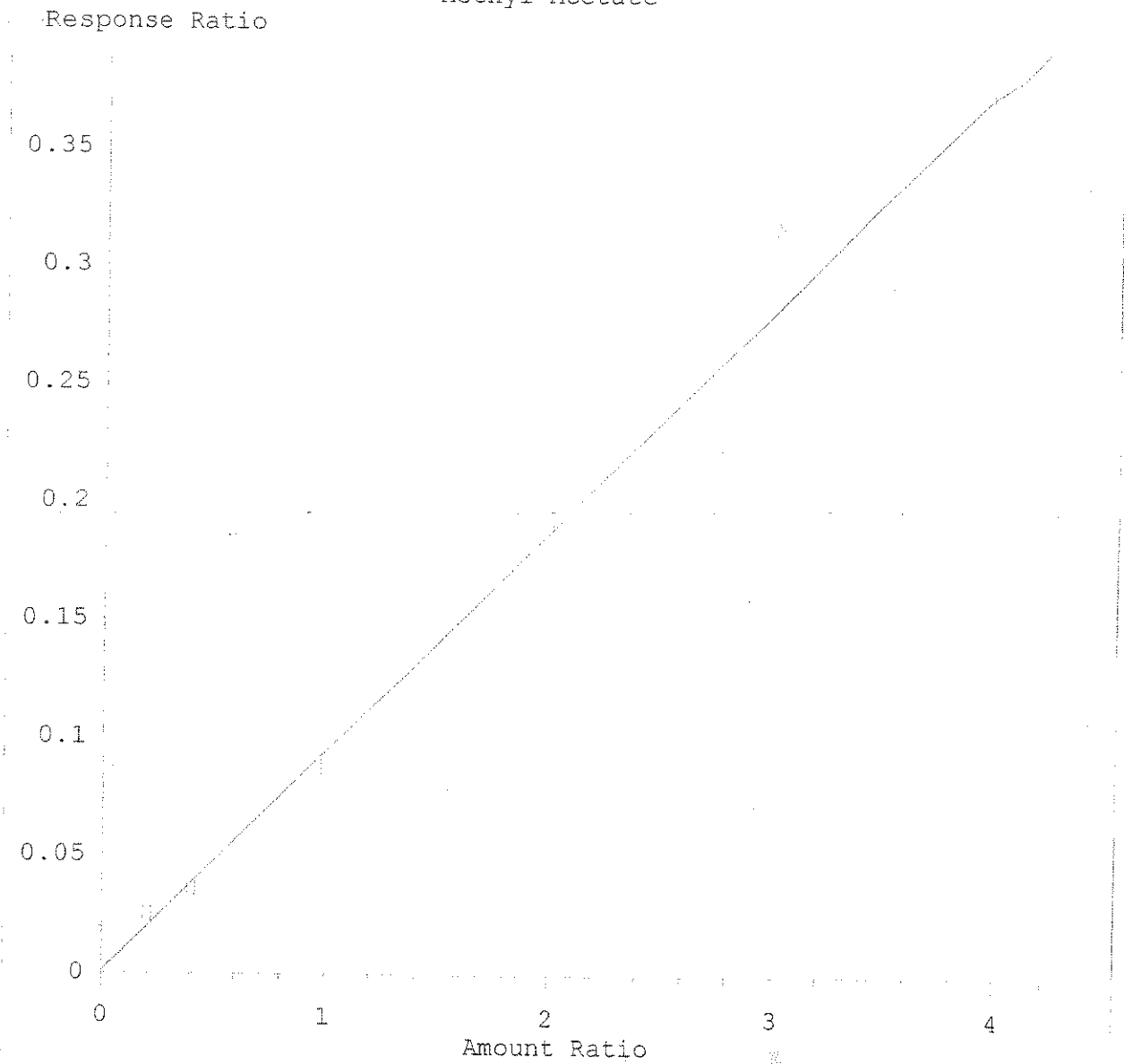
Compound	25	10	5	2.5	50	100	Avg	%RSD
88) tert-Butylbenzene	2.772	2.760	3.190	3.550	2.776	2.916	2.994	10.62
89) 1,2,4-Trimethylbenz	1.981	1.992	2.288	2.524	1.993	2.132	2.152	10.12
90) sec-Butylbenzene	2.968	2.940	3.391	3.812	2.991	3.188	3.215	10.54
91) 1,3 Dichlorobenzene	1.430	1.418	1.649	1.828	1.427	1.521	1.545	10.61
92) 4-Isopropyltoluene	2.409	2.397	2.822	3.087	2.406	2.531	2.609	10.93
93) 1,4 Dichlorobenzene	1.481	1.455	1.754	1.950	1.477	1.554	1.612	12.34
94) n-Butylbenzene	2.176	2.166	2.485	2.717	2.163	2.289	2.333	9.66
95) 1,2 Dichlorobenzene	1.283	1.308	1.499	1.679	1.292	1.362	1.404	11.18
96) Hexachloroethane	0.930	0.906	1.035	1.132	0.943	1.008	0.993	8.45
97) 1,2-Dibromo-3-Chlor	0.157	0.158	0.198		0.178	0.179	0.174	9.83
98) 1,2,4-Trichlorobenz	1.060	1.065	1.241	1.496	1.051	1.109	1.170	14.90
99) Hexachlorobutadiene	0.766	0.762	0.890	1.007	0.771	0.808	0.834	11.69
100) Naphthalene	1.406	1.476	1.818	2.372	1.486	1.529	1.681	21.86
101) 1,2,3-Trichlorobenz	0.877	0.907	1.061	1.370	0.888	0.931	1.006	18.93



$R = -7.80e-003 A^2 + 8.12e-002 A + 4.82e-003$   
Curve Fit: Quadratic

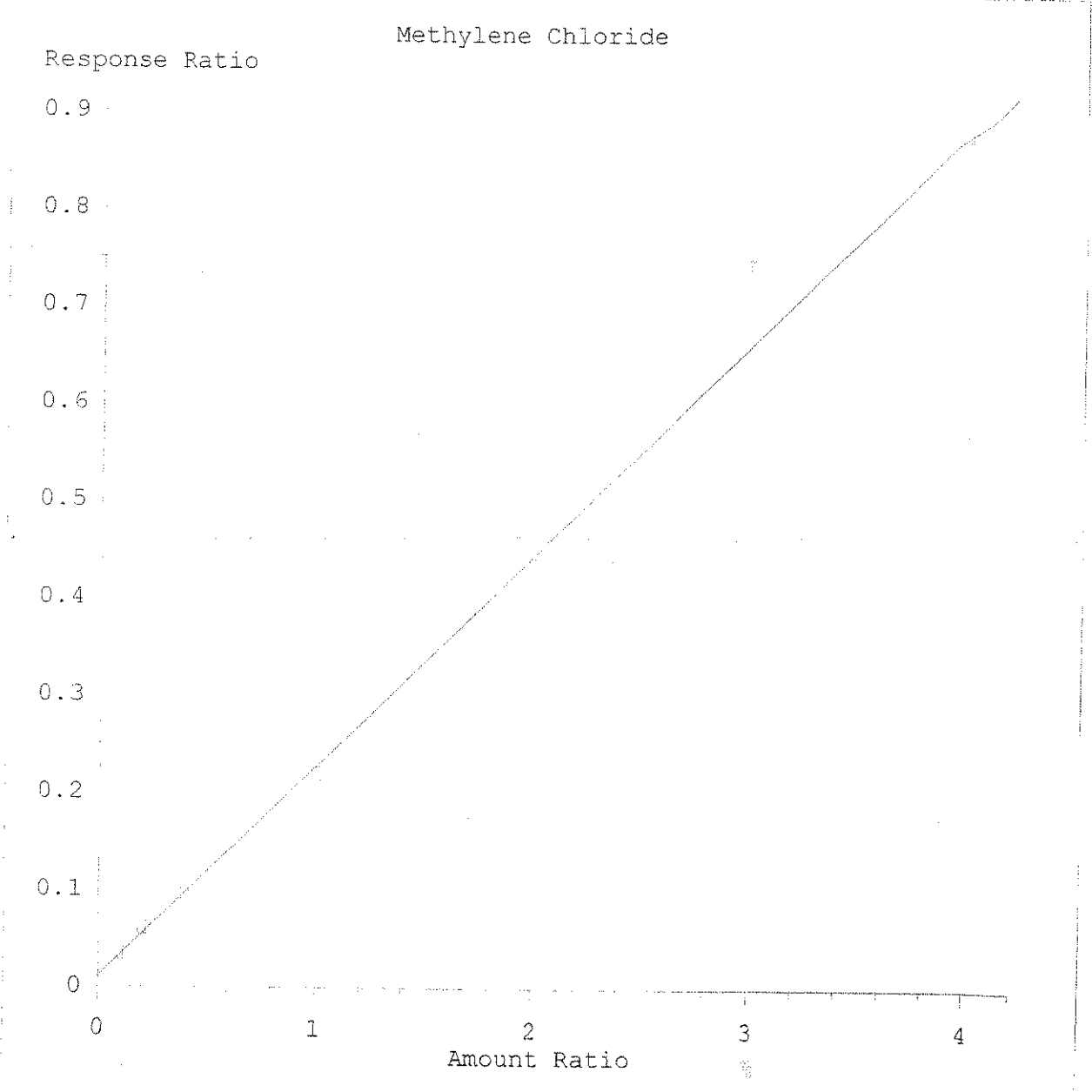
Method Name: C:\HPCHEM\1\METHODS\LO060606.M  
Calibration Table Last Updated: Tue Jun 06 12:23:38 2006

Methyl Acetate



Resp Ratio = 9.30e-002 \* Amt + 1.30e-003  
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M  
Calibration Table Last Updated: Tue Jun 06 12:24:44 2006

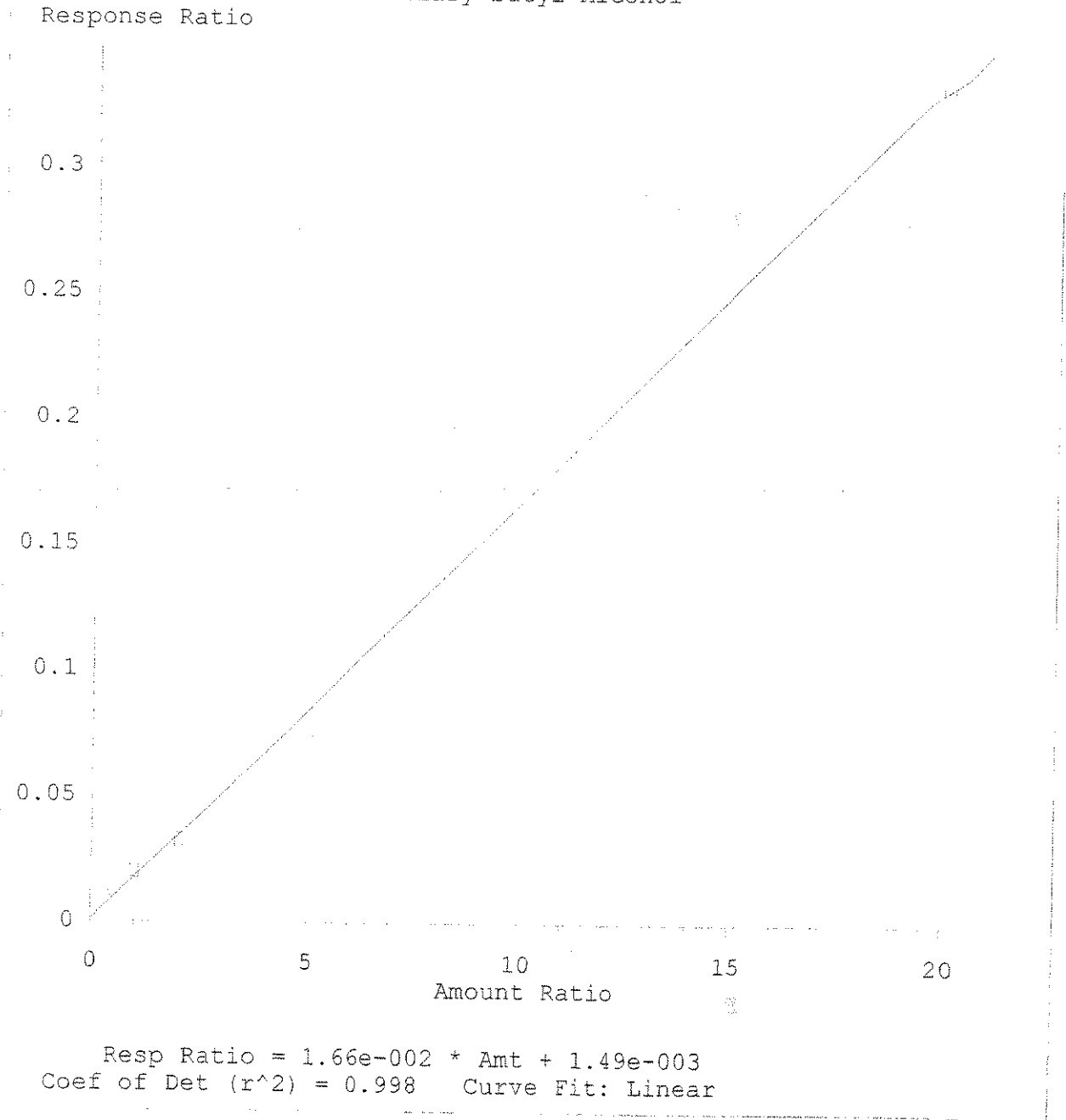


Resp Ratio = 2.16e-001 \* Amt + 1.07e-002  
Coef of Det (r^2) = 1.000    Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M  
Calibration Table Last Updated: Tue Jun 06 12:25:03 2006



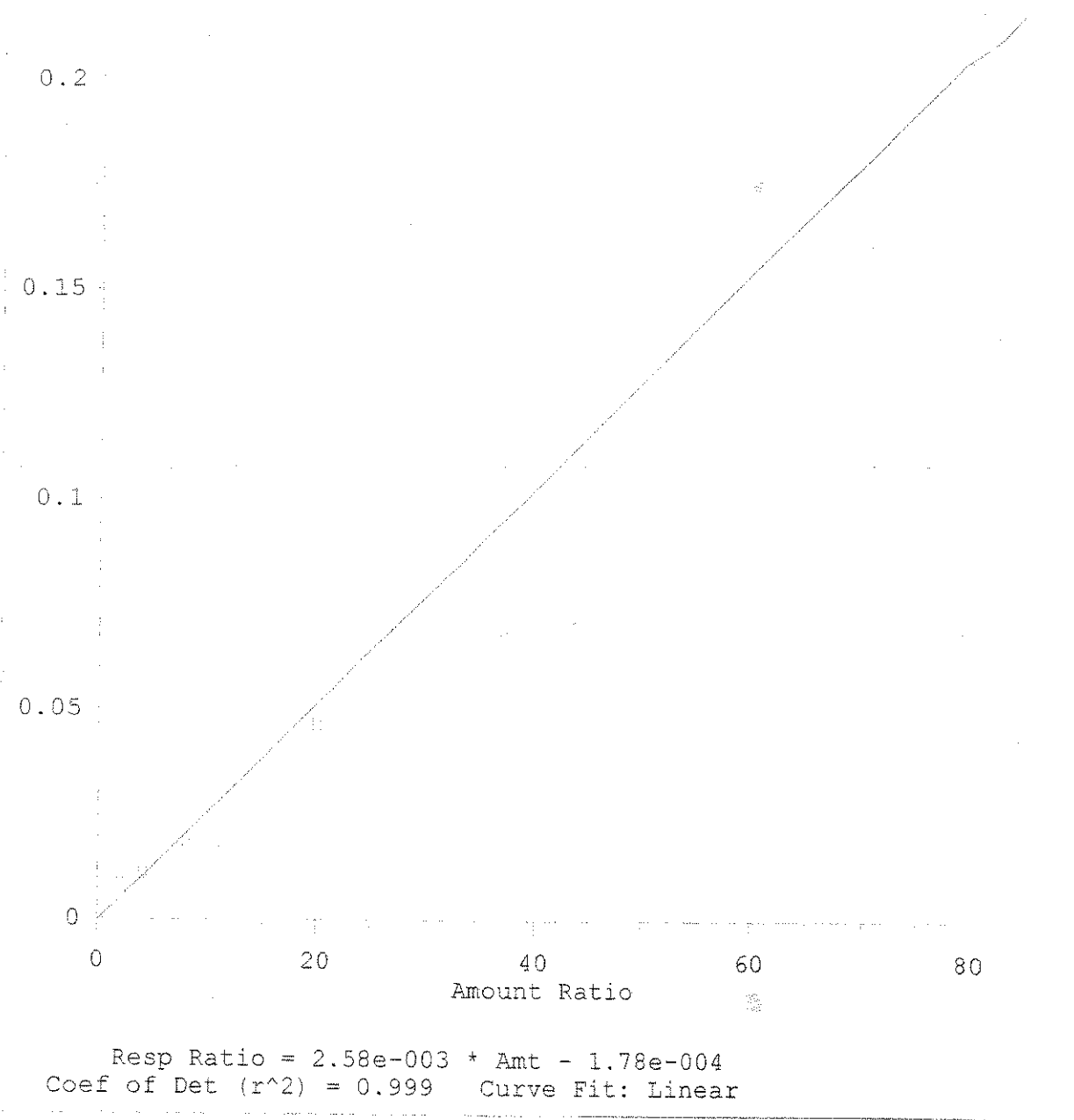
Tertiary-butyl Alcohol



Method Name: C:\HPCHEM\1\METHODS\LO060606.M  
Calibration Table Last Updated: Tue Jun 06 12:25:08 2006

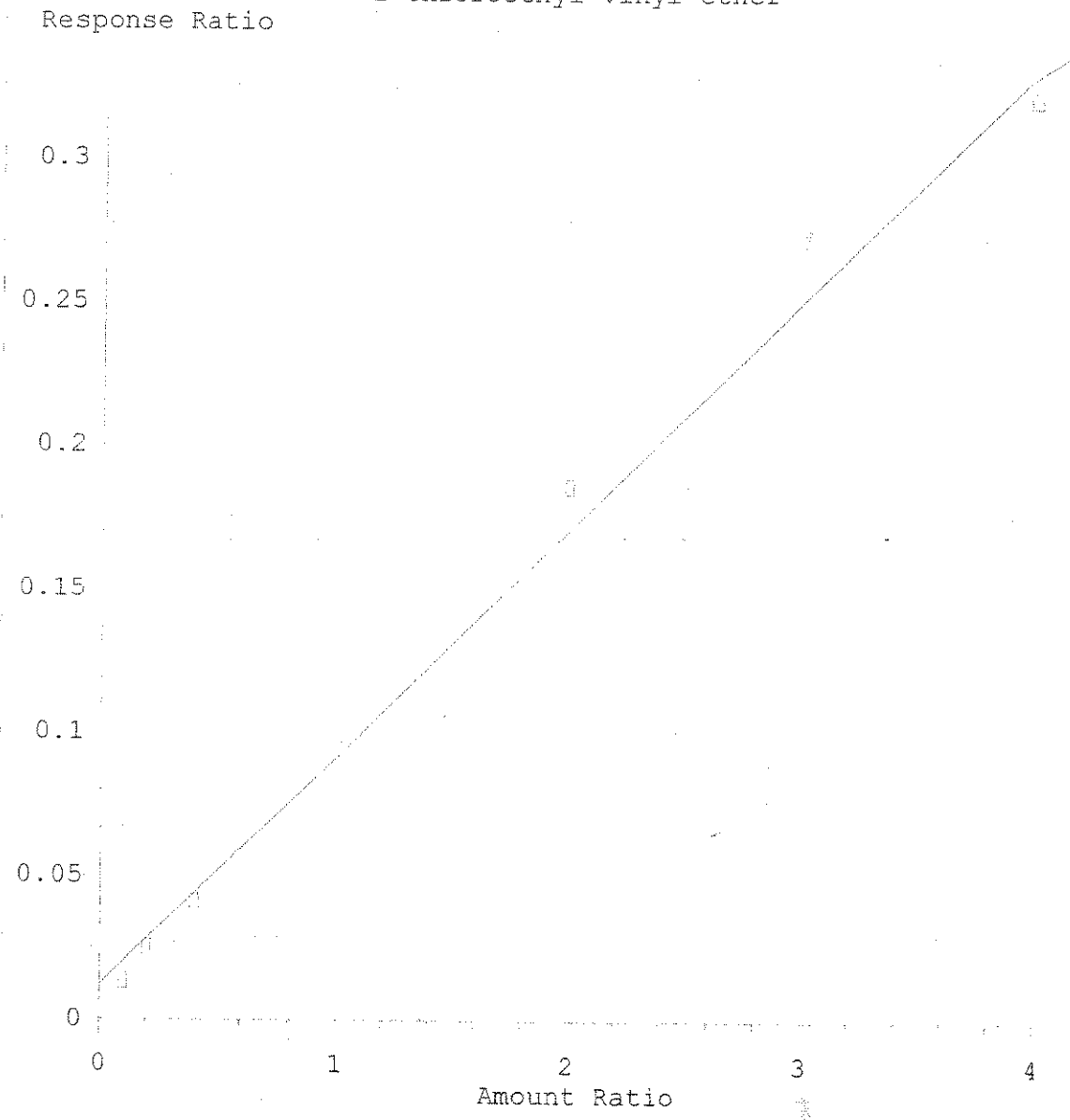
1,4-Dioxane

Response Ratio



Method Name: C:\HPCHEM\1\METHODS\LO060606.M  
Calibration Table Last Updated: Tue Jun 06 12:25:24 2006

2-Chloroethyl vinyl ether

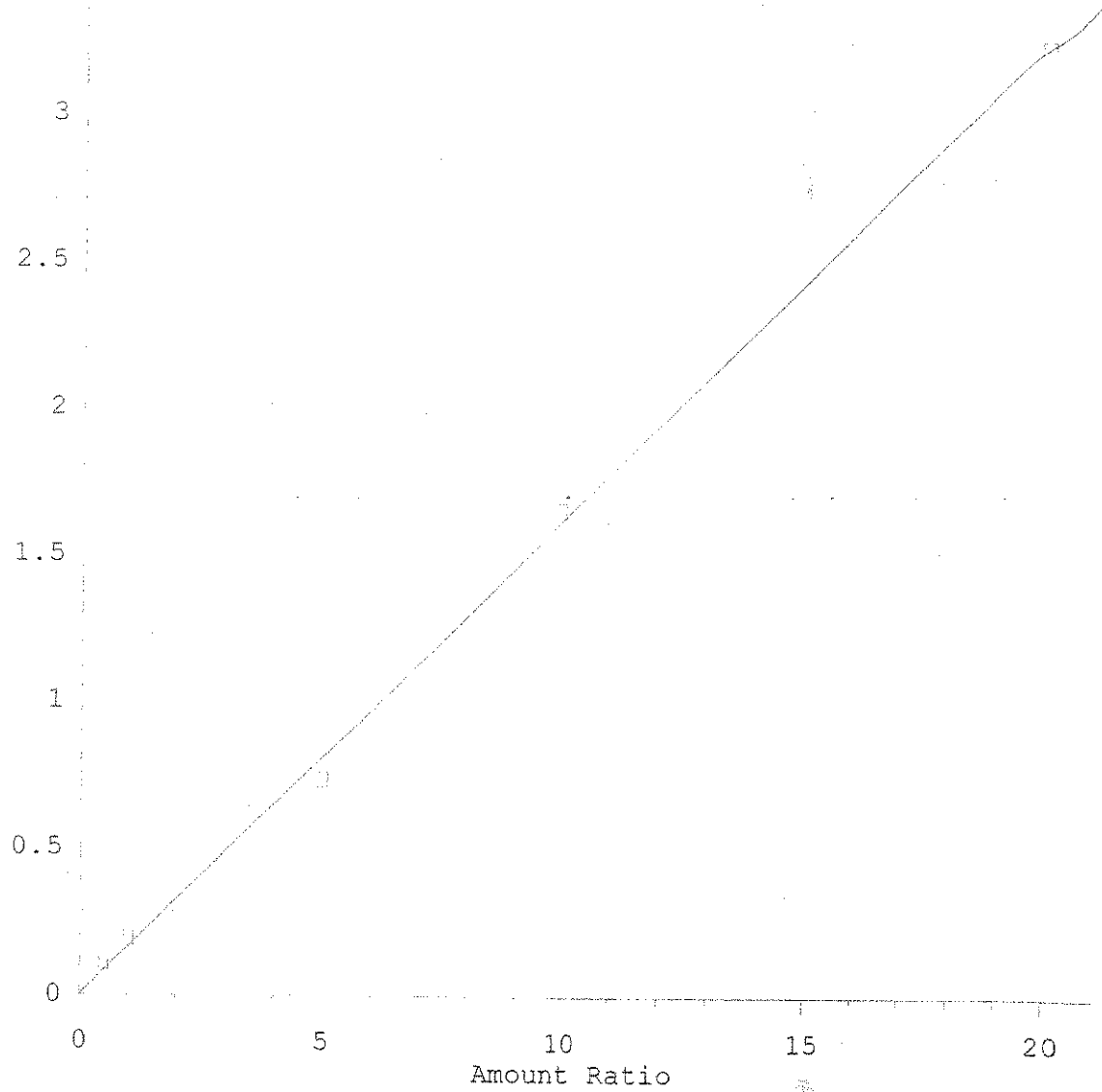


Resp Ratio = 7.94e-002 \* Amt + 1.19e-002  
Coef of Det (r^2) = 0.995 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M  
Calibration Table Last Updated: Tue Jun 06 12:25:36 2006

2-Hexanone

Response Ratio

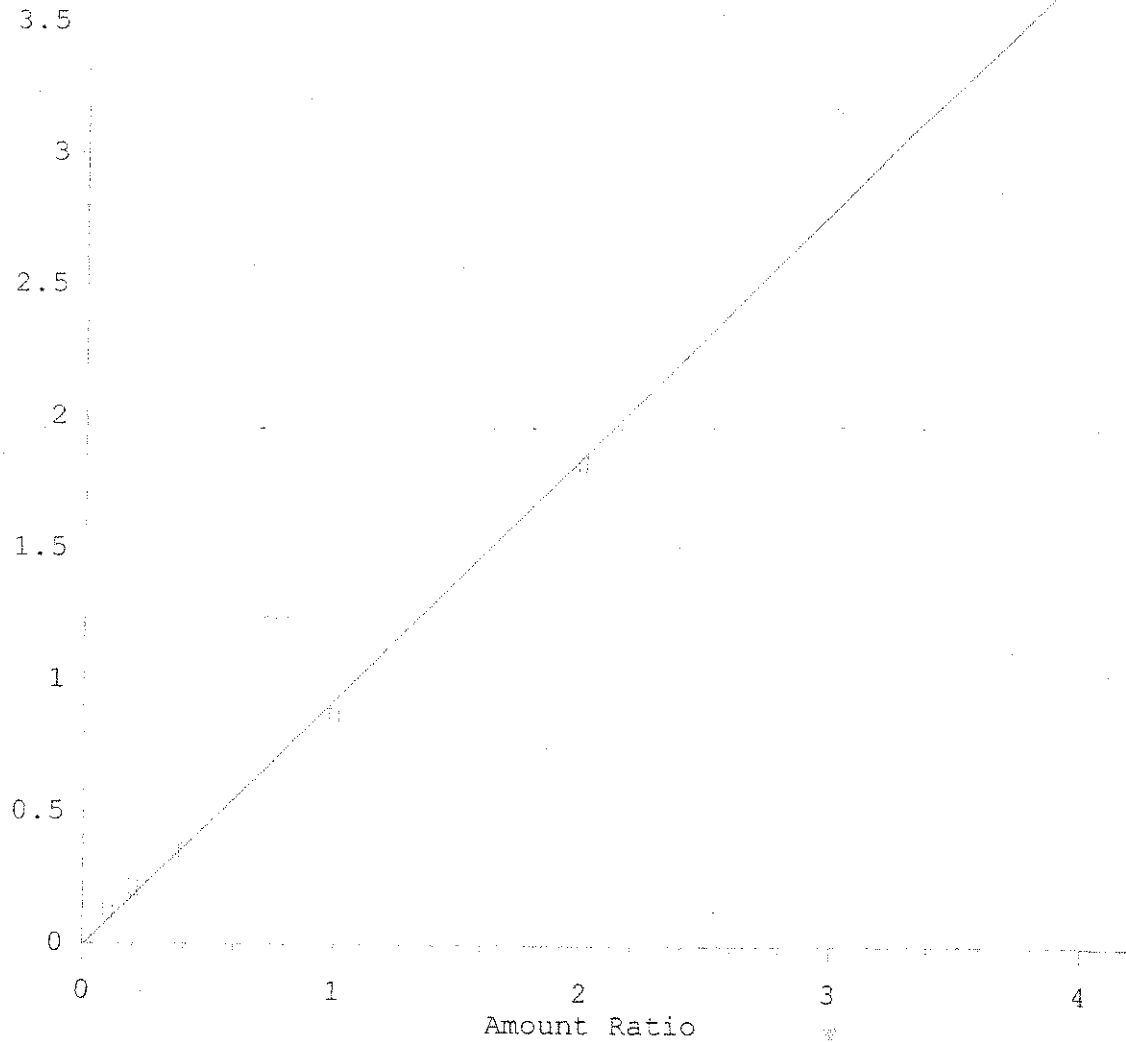


Resp Ratio = 1.62e-001 \* Amt + 2.61e-003  
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M  
Calibration Table Last Updated: Tue Jun 06 12:25:51 2006

1,1,2,2-Tetrachloroethane

Response Ratio

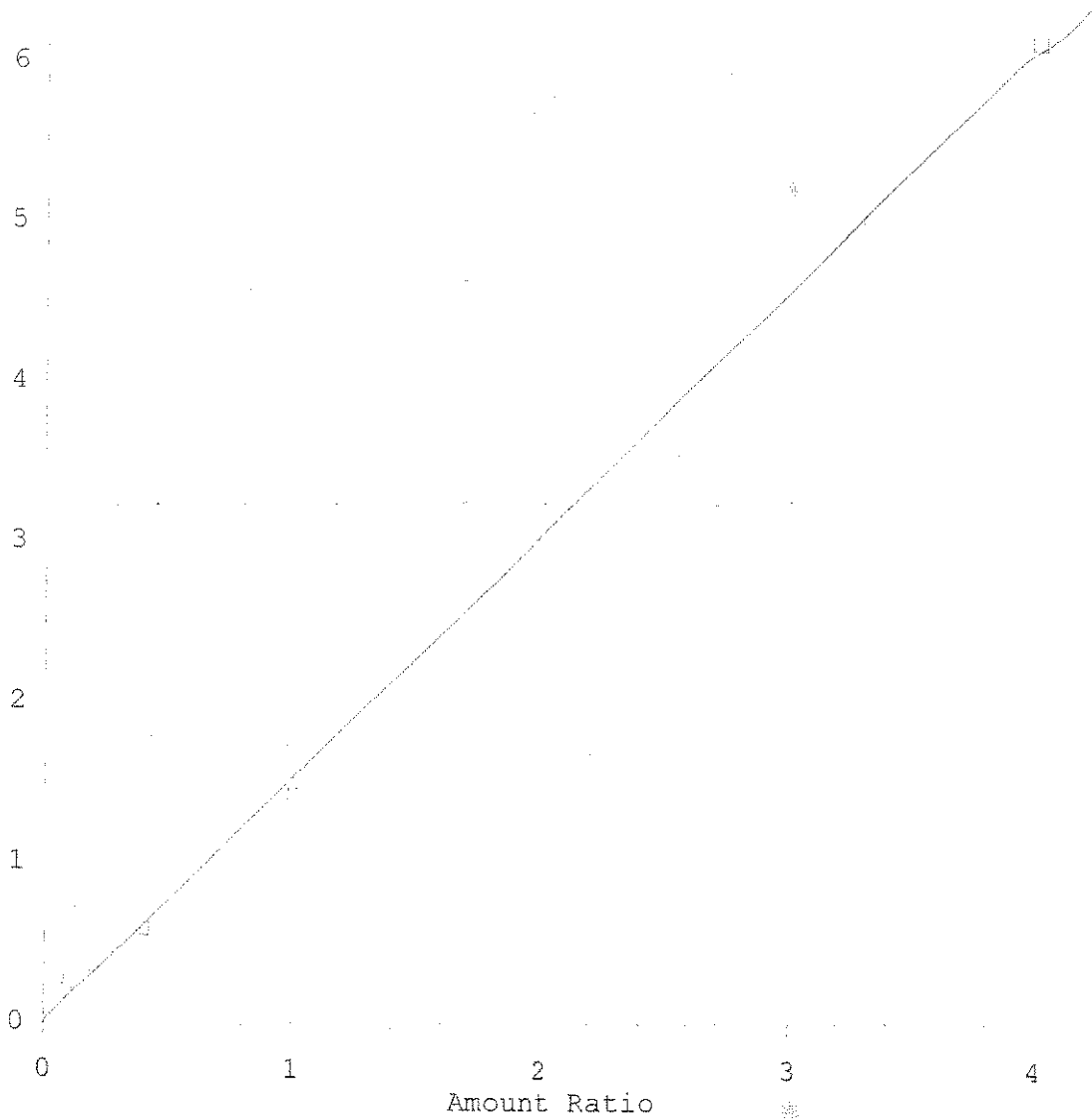


Resp Ratio =  $9.29e-001 * Amt - 6.52e-003$   
Coef of Det ( $r^2$ ) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M  
Calibration Table Last Updated: Tue Jun 06 12:26:03 2006

Naphthalene

Response Ratio

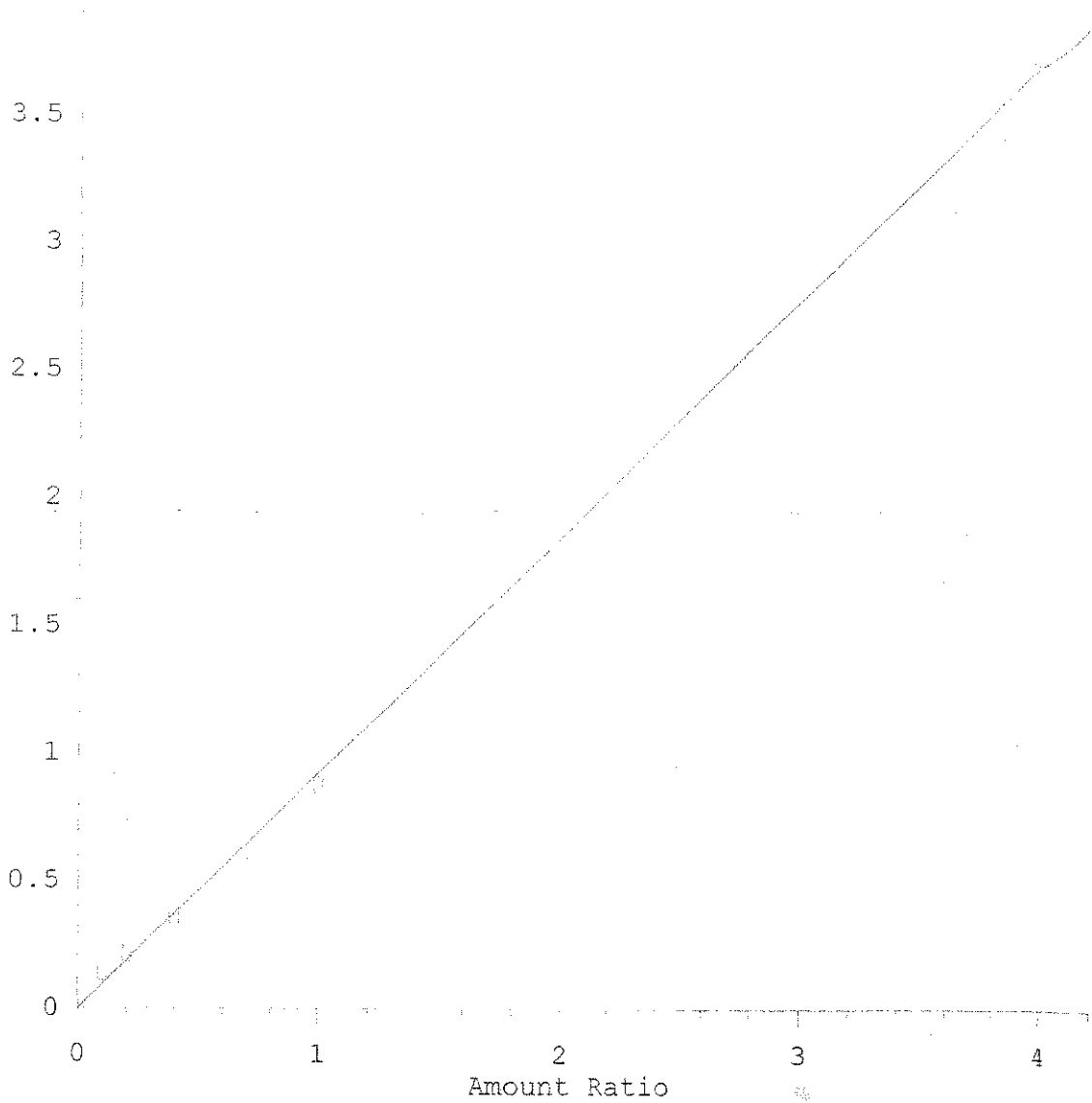


Resp Ratio = 1.51e+000 \* Amt + 4.82e-003  
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M  
Calibration Table Last Updated: Tue Jun 06 12:26:31 2006

1,2,3-Trichlorobenzene

Response Ratio



Resp Ratio =  $9.21e-001 * Amt - 8.41e-005$   
Coef of Det ( $r^2$ ) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M  
Calibration Table Last Updated: Tue Jun 06 12:26:38 2006

# ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/6/06	7	M4 14922	0606019-d6	Ag6060d6		PHZ
	8	M4 23	-07			
	9	M4 24	-08			
	10	M4 25	-03		10X	
	11	M4 26	-04		10X	
	12	M4 27	-02		50X	
	13	M4 28	-09		50X	
6/6/06	14	M4 29	-05	Ag6060d6	100X	PHZ
6/6/06	1	M4 30	BPFO045 - TUM	LO052d6	6F06045	
	2	M4 31	BPFO045 - CAL1		6F06046	
	3	M4 32	BPFO045 - CAL2		6F06047	
	4	M4 33	BPFO045 - CAL3		6F06048	
	5	M4 34	BPFO045 - CAL4		6F06049	
	6	M4 35	BPFO045 - CAL5		6F06050	
	7	M4 36	BPFO045 - CAL6		6F06051	
	8	M4 37	Test Blank	LO052d6		
6/6/06	9	M4 38	BPFO045 - SCV1	LO060d6	6F06053	

Surrogate: 6E24 033  
 On-column IS: 6E24 9034

**Run Sequence Confirmation**  
 Control Number 20.0023-0601A  
 All Standards must be noted with a primary or secondary ID



## ANALYSIS SEQUENCE

BPF0232

Instrument: VMS4

Calibration ID: 0606016 LL 060606

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0232-TUN1	QC		1		6F28046		
BPF0232-CCV1	QC		2		6F28047	6F22041	
BF62822-BS1	QC		3			6F22041	
BF62822-BSD1	QC		4			6F22041	
BF62822-BLK1	QC		5			6F22041	
0606324-13	VOC: x8260 ppb VOA	J	6			6F22041	Blackstone Consulting
0606346-01	VOC: x8260 ppb VOA	G	7			6F22041	MACTEC Engineering & Consulting, Inc
0606346-02	VOC: x8260 ppb VOA	O	8			6F22041	MACTEC Engineering & Consulting, Inc
0606346-03	VOC: x8260 ppb VOA	O	9			6F22041	MACTEC Engineering & Consulting, Inc
0606346-05	VOC: x8260 ppb VOA	G	10			6F22041	MACTEC Engineering & Consulting, Inc
0606346-06	VOC: x8260 ppb VOA	F	11			6F22041	MACTEC Engineering & Consulting, Inc
0606346-07	VOC: x8260 ppb VOA	F	12			6F22041	MACTEC Engineering & Consulting, Inc
0606346-08	VOC: x8260 ppb VOA	F	13			6F22041	MACTEC Engineering & Consulting, Inc
0606346-09	VOC: x8260 ppb VOA	F	14			6F22041	MACTEC Engineering & Consulting, Inc
0606346-10	VOC: x8260 ppb VOA	F	15			6F22041	MACTEC Engineering & Consulting, Inc
0606346-11	VOC: x8260 ppb VOA	F	16			6F22041	MACTEC Engineering & Consulting, Inc
BF62822-MS1	QC		17			6F22041	
BF62822-MSD1	QC		18			6F22041	

Samples Loaded By

Date

Data Prepared By

Date

# ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/27/06	17	M4 15207	0606379-17	Lea06066	7.7/10 P4186	no
	18	M4 08			7.7/10 P4200	J
	19	M4 09	0606383-08		4.6/10 P4332	J
6/27/06	20	M4 10	<del>0606383-08</del> 0606383-08	Lea06066	7.7/10 P4338	no
6/27/06	21	M4 11	<del>0606383-08</del> 0606383-08	Lea06066	7.7/10 P4176	no
6/28/06	1	M4 12	BF0232- TUM	AG06136	6F28076	
	2	M4 13	BF0232- CAN		6F28047	
	3	M4 14	BF6282- 951		6F17081	
	4	M4 15	BF6282- 6501		6F17081	
	5	M4 16	Test BIK			
	6	M4 17	BF6282- BIK			
	7	M4 18	0606329-13		50X P462	
	8	M4 19	0606349-07		10X	
	9	M4 20	0606379-06		1000X	
	10	M4 21	BF62611- MS1		6F17081	
	11	M4 22	BF62611- MS1		6F17081	
6/28/06	12	M4 23	Test BIK	AG06136		no

Surrogate: 6F22039  
 On-column IS: 6F22039

Run Sequence Confirmation  
 Control Number 20.0023-0601A  
 All Standards must be noted with a primary or secondary ID

# ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/22/06	B	M4 15724	0606346-01	Agcb1306		
	14	M4 75	-02		0112	no
	15	M4 76	-03			
	16	M4 77	-05			
	17	M4 78	-06			
	18	M4 79	-07			
	19	M4 80	-08			
	20	M4 91	-09			
	21	M4 32	-10			
	22	M4 33	-11			
	23	M4 17	-12			
	24	M4 35	BF62822-MS1		BF2081 wpt/1001	
	25	M4 36	BF62822-MS1		BF2081 wpt/1001	
	26	M4 37	BF62823-TUM		BF2048	
	27	M4 38	BF62823-COM		BF2049	
	28	M4 39	BF62823-BS1		BF2081 wpt/501	
6/21/06	29	M4 40	BF62823-BS1	Agcb1306	BF2081 wpt/501	M

**Run Sequence Confirmation**

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: BF22839

On-column IS: BF22841

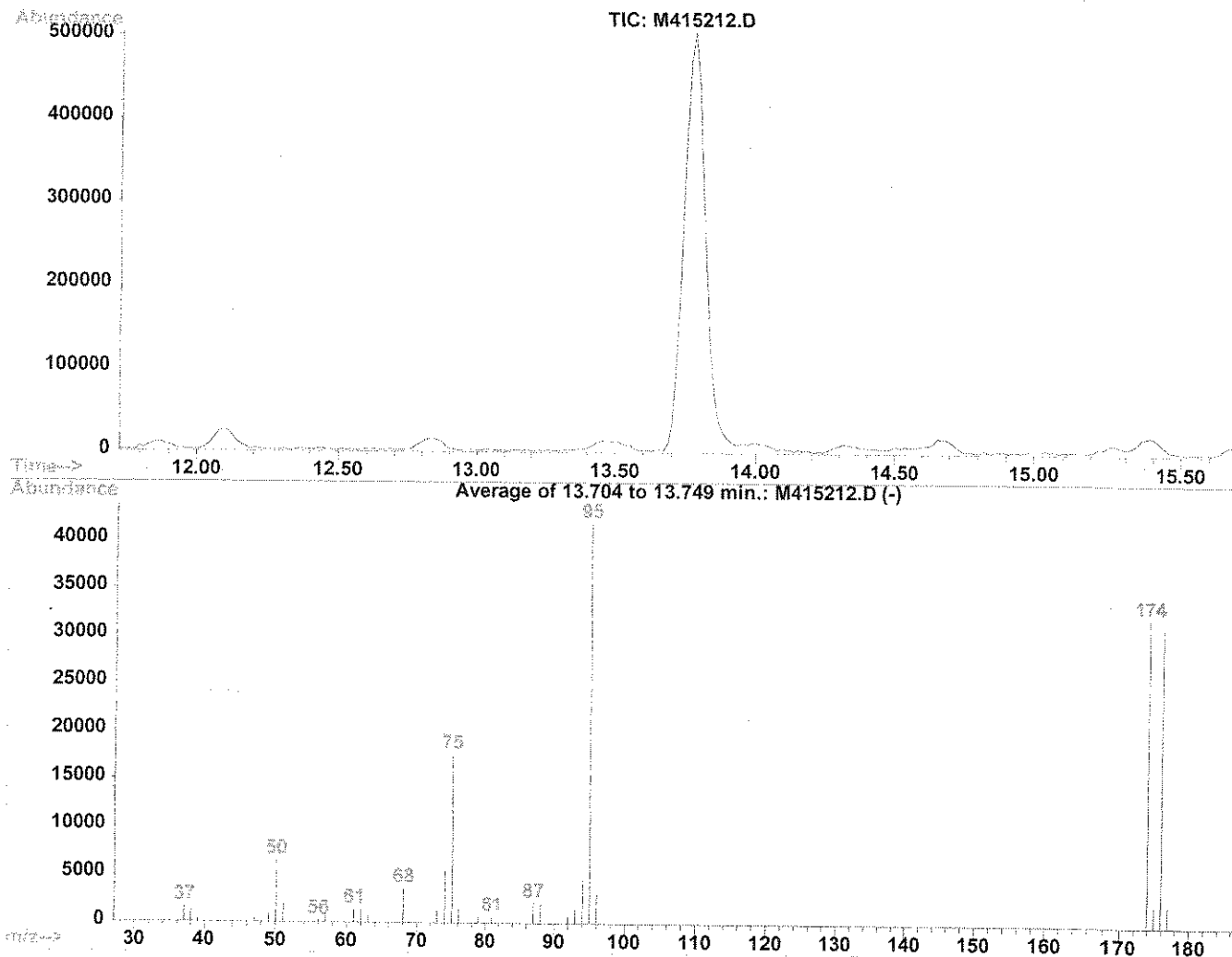
# ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/28/06	30	M4 15241	Test BIK B <sup>100</sup> B <sup>100</sup>	AG061306		m
	31	M4 42	BF7823- BIK			
	32	M4 47	0606376-13		AT-12	
	33	M4 44	-14			
	34	M4 45	-15			
	35	M4 46	0606383-16			
	36	M4 47	0606375-01			
	37	M4 48	0606383-15			
	38	M4 49	0606371-01			
	39	M4 68	0606384-01			
	40	M4 51	0606349-08		100X	
	41	M4 52	-10			
	42	M4 53	-11			
	43	M4 54	-12			
	44	M4 85	-13			
	45	M4 56	-14		100X	
6/28/06	46	M4 57	0606385-01	AG061306	AT-12	m

Surrogate: 6F22039  
 On-column IS: 6F22041

**Run Sequence Confirmation**  
 Control Number 20.0023-0601A  
 All Standards must be noted with a primary or secondary ID

Data File : Q:\VOA\MS4\MH\MH0606\MH062806\M415212.D Vial: 1  
 Acq On : 28 Jun 2006 8:09 am Operator: MD  
 Sample : BPF0232-TUN1 Inst : VOA MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)  
 Title : Element ID: 0606016



Spectrum Information: Average of 13.704 to 13.749 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.4	6433	PASS
75	95	30	60	41.9	17556	PASS
95	95	100	100	100.0	41883	PASS
96	95	5	9	7.2	3001	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	76.7	32106	PASS
175	174	5	9	7.3	2345	PASS
176	174	95	101	97.2	31200	PASS
177	176	5	9	7.0	2173	PASS

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4\_MH\MH0606\MH062806\M415213.D Vial: 2  
 Acq On : 28 Jun 2006 8:39 am Operator: MD  
 Sample : BPF0232-CCV1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)  
 Title : Element ID: 0606016  
 Last Update : Tue Jun 13 14:28:50 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	85	0.00
2	Dichlorodifluoromethane	0.306	0.280	8.5	79	0.00
3	Chloromethane	0.168	0.150	10.7	81	0.00
4	Vinyl Chloride	0.160	0.150	6.3	81	0.00
5	Bromomethane	0.180	0.158	12.2	69	0.00
6	Chloroethane	0.094	0.088	6.4	78	0.00
7	Trichlorofluoromethane	0.529	0.532	-0.6	87	0.00
8	Diethyl ether	0.097	0.100	-3.1	87	-0.01
9	Acrolein	0.015	0.013	13.3	73	0.00
10	1,1,2-Trichloro-1,2,2-trifl	0.562	0.545	3.0	83	0.00
11	Acetone	0.006	0.006	0.0	83	0.00
12	Iodomethane	0.464	0.465	-0.2	81	-0.01
13	Carbon Disulfide	0.674	0.602	10.7	79	0.00
14	1,1-Dichloroethene	0.265	0.259	2.3	85	0.00
15	Allyl Chloride	0.249	0.228	8.4	78	-0.01
16	Methyl Acetate	0.074	0.067	9.5	81	0.00
17	Methylene Chloride	0.261	0.245	6.1	82	0.00
18	Methyl tert-Butyl Ether	0.377	0.362	4.0	83	0.00
19	Acrylonitrile	0.027	0.025	7.4	80	-0.01
20	trans-1,2-Dichloroethene	0.307	0.302	1.6	84	0.00
21	1,1-Dichloroethane	0.453	0.431	4.9	83	-0.01
22	Chloroprene	0.260	0.253	2.7	84	-0.01
23	Vinyl Acetate	0.607	0.527	13.2	76	0.00
24	Di-isopropyl ether	0.693	0.618	10.8	77	-0.01
25	Ethyl tertiary-butyl ether	0.591	0.557	5.8	82	-0.01
26	2-Butanone	0.008	0.009	-12.5	87	-0.01
27	cis-1,2 Dichloroethene	0.322	0.317	1.6	85	-0.01
28	2,2-Dichloropropane	0.351	0.359	-2.3	88	-0.01
29	Methyl Acrylate	0.116	0.109	6.0	81	-0.01
30	Methacrylonitrile	0.067	0.065	3.0	85	0.00
31	Bromochloromethane	0.228	0.233	-2.2	86	0.00
32	Tetrahydrofuran	0.027	0.025	7.4	76	0.00
33	Chloroform	0.576	0.577	-0.2	87	-0.01
34	1,1,1-Trichloroethane	0.528	0.527	0.2	87	0.00
35 S	Dibromofluoromethane (SURR)	0.733	0.734	-0.1	87	-0.01
36	Cyclohexane	0.273	0.234	14.3	71	-0.01
37	1-Chlorobutane	0.396	0.372	6.1	85	0.00
38	1,1-Dichloropropene	0.366	0.357	2.5	84	0.00
39	Carbon Tetrachloride	0.547	0.544	0.5	87	0.00
40	Benzene	0.706	0.667	5.5	82	0.00
41 S	1,2-Dichloroethane-d4 (SURR)	0.218	0.226	-3.7	89	-0.01
42	1,2-Dichloroethane	0.237	0.244	-3.0	88	0.00

686

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4\_MH\MH0606\MH062806\M415213.D Vial: 2  
 Acq On : 28 Jun 2006 8:39 am Operator: MD  
 Sample : BPF0232-CCV1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)  
 Title : Element ID: 0606016  
 Last Update : Tue Jun 13 14:28:50 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
43	Tertiary-amyl methyl ether	0.505	0.478	5.3	83	0.00
44	Trichloroethene	0.396	0.393	0.8	85	0.00
45	Methyl Cyclohexane	0.305	0.267	12.5	75	-0.01
46	1,2-Dichloropropane	0.290	0.272	6.2	81	-0.01
47	Dibromomethane	0.294	0.292	0.7	85	-0.01
48	1,4-Dioxane	0.001	0.001	0.0	203#	0.00
49	Methyl Methacrylate	0.123	0.112	8.9	79	-0.01
50	Bromodichloromethane	0.579	0.585	-1.0	86	-0.01
51	2-Nitropropane	0.029	0.028	3.4	86	0.00
52	2-Chloroethyl vinyl ether	0.047	0.030	36.2#	62	0.00
53	4-Methyl-2-Pentanone	0.049	0.046	6.1	80	0.00
54	cis-1,3-Dichloropropene	0.422	0.423	-0.2	84	0.00
55	Toluene	0.535	0.529	1.1	85	0.00
56	trans-1,3-Dichloropropene	0.326	0.333	-2.1	85	0.00
57	1,1,2-Trichloroethane	0.214	0.209	2.3	84	0.00
58 I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00
59 S	Toluene-d8 (SURR)	1.036	1.011	2.4	86	-0.01
60	2-Hexanone	0.086	0.081	5.8	80	0.00
61	Ethyl Methacrylate	0.288	0.265	8.0	82	0.00
62	1,3-Dichloropropane	0.405	0.386	4.7	83	0.00
63	Tetrachloroethene	0.444	0.433	2.5	86	0.00
64	Dibromochloromethane	0.699	0.703	-0.6	86	0.00
65	1,2-Dibromoethane	0.497	0.485	2.4	85	0.00
66	1-Chlorohexane	0.426	0.401	5.9	80	-0.01
67	Chlorobenzene	0.920	0.909	1.2	87	-0.01
68	1,1,1,2-Tetrachloroethane	0.550	0.527	4.2	88	0.00
69	Ethylbenzene	1.245	1.195	4.0	85	0.00
70	Xylene P,M	0.505	0.489	3.2	84	0.00
71	Xylene O	0.491	0.480	2.2	86	-0.01
72	Styrene	0.850	0.838	1.4	85	0.00
73	Bromoform	0.446	0.453	-1.6	88	0.00
74	cis-1,4-Dichloro-2-butene	0.085	0.092	-8.2	88	0.00
75 S	Bromofluorobenzene (SURR)	0.712	0.698	2.0	86	0.00
76 I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	85	-0.01
77	Isopropylbenzene	2.426	2.281	6.0	82	0.00
78	Trans-1,4-Dichloro-2-Butene	0.108	0.106	1.9	83	-0.01
79	1,2,3-Trichloropropane	0.553	0.520	6.0	83	0.00
80	Bromobenzene	0.911	0.922	-1.2	88	-0.01
81	1,1,2,2-Tetrachloroethane	0.722	0.664	8.0	83	0.00
82	n-Propylbenzene	2.940	2.756	6.3	83	-0.01

(#) = Out of Range

687

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4\_MH\MH0606\MH062806\M415213.D Vial: 2  
 Acq On : 28 Jun 2006 8:39 am Operator: MD  
 Sample : BPF0232-CCV1 Inst : VOA MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)  
 Title : Element ID: 0606016  
 Last Update : Tue Jun 13 14:28:50 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	2-Chlorotoluene	1.653	1.616	2.2	97	0.00
84	4-Chlorotoluene	2.170	2.062	5.0	84	-0.01
85	1,3,5-Trimethylbenzene	1.996	1.851	7.3	82	0.00
86	Pentachloroethane	2.770	2.590	6.5	82	0.00
87	tert-Butylbenzene	2.770	2.590	6.5	82	0.00
88	1,2,4-Trimethylbenzene	2.064	1.934	6.3	82	0.00
89	sec-Butylbenzene	2.682	2.436	9.2	80	0.00
90	1,3 Dichlorobenzene	1.524	1.485	2.6	86	0.00
91	4-Isopropyltoluene	2.220	2.061	7.2	82	-0.01
92	1,4 Dichlorobenzene	1.589	1.527	3.9	85	-0.01
93	n-Butylbenzene	1.827	1.665	8.9	79	0.00
94	1,2 Dichlorobenzene	1.364	1.317	3.4	86	0.00
95	Hexachloroethane	0.881	0.816	7.4	81	0.00
96	1,2-Dibromo-3-Chloropropane	0.100	0.106	-6.0	88	-0.01
97	1,2,4-Trichlorobenzene	1.041	0.955	8.3	82	0.00
98	Hexachlorobutadiene	0.466	0.433	7.1	86	0.00
99	Naphthalene	1.178	1.029	12.6	80	0.00
100	1,2,3-Trichlorobenzene	0.827	0.750	9.3	83	0.00



Data File : Q:\VOA\MS4\_MH\MH0606\MH062806\M415213.D Vial: 2  
 Acq On : 28 Jun 2006 8:39 am Operator: MD  
 Sample : BPF0232-CCV1 Inst : VOA MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jun 28 14:16 19106 Quant Results File: AQ061306.RES

Quant Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)  
 Title : Element ID: 0606016  
 Last Update : Tue Jun 13 14:28:50 2006  
 Response via : Initial Calibration  
 DataAcq Meth : AQ061306

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev.(Min)
1) Fluorobenzene	6.24	96	3490281	25.00	ug/l	0.00
58) Chlorobenzene-d5	11.55	117	3086957	25.00	ug/l	0.00
76) 1,4 Dichlorobenzene-D4	15.96	152	1721085	25.00	ug/l	-0.01

System Monitoring Compounds

35) Dibromofluoromethane (SURR)	5.15	111	2561717	25.02	ug/l	-0.01
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.08%
41) 1,2-Dichloroethane-d4 (SURR)	5.66	65	788880	25.93	ug/l	-0.01
Spiked Amount	25.000	Range	70 - 130	Recovery	=	103.72%
59) Toluene-d8 (SURR)	8.98	98	3121072	24.41	ug/l	-0.01
Spiked Amount	25.000	Range	70 - 130	Recovery	=	97.64%
75) Bromofluorobenzene (SURR)	13.77	95	2154833	24.52	ug/l	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.08%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.22	85	975601	22.85	ug/l	100
3) Chloromethane	1.37	50	523128	22.33	ug/l	99
4) Vinyl Chloride	1.42	62	524074	23.50	ug/l	99
5) Bromomethane	1.64	94	552979	21.99	ug/l	99
6) Chloroethane	1.72	64	307182	23.29	ug/l	99
7) Trichlorofluoromethane	1.91	101	1858450	25.18	ug/l	100
8) Diethyl ether	2.13	59	348355	25.64	ug/l	97
9) Acrolein	2.24	56	44045	20.76	ug/l	91
10) 1,1,2-Trichloro-1,2,2-trif	2.33	101	1902303	24.23	ug/l	97
11) Acetone	2.37	58	98365	127.80	ug/l	89
12) Iodomethane	2.45	142	1621669	25.02	ug/l	100
13) Carbon Disulfide	2.50	76	2101329	22.32	ug/l	100
14) 1,1-Dichloroethene	2.31	96	905691	24.48	ug/l	96
15) Allyl Chloride	2.64	41	795340	22.85	ug/l	89
16) Methyl Acetate	2.68	43	234474	22.60	ug/l	99
17) Methylene Chloride	2.77	84	855225	23.46	ug/l	96
18) Methyl tert-Butyl Ether	3.07	73	1262181	23.99	ug/l	97
19) Acrylonitrile	3.03	53	85658	22.79	ug/l	97
20) trans-1,2-Dichloroethene	3.06	96	1053890	24.56	ug/l	96
21) 1,1-Dichloroethane	3.55	63	1504250	23.77	ug/l	99
22) Chloroprene	3.67	53	883888	24.35	ug/l	98
23) Vinyl Acetate	3.67	43	1839759	21.70	ug/l	100
24) Di-isopropyl ether	3.70	45	2157494	22.31	ug/l	94
25) Ethyl tertiary-butyl ether	4.22	59	1945338	23.56	ug/l	98
26) 2-Butanone	4.44	72	160911	137.29	ug/l #	84
27) cis-1,2 Dichloroethene	4.38	96	1107252	24.63	ug/l	100
28) 2,2-Dichloropropane	4.36	77	1253821	25.58	ug/l	99

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

Data File : Q:\VOA\MS4\_MH\MH0606\MH062806\M415213.D Vial: 2  
 Acq On : 28 Jun 2006 8:39 am Operator: MD  
 Sample : BPF0232-CCV1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jun 28 14:16 19106 Quant Results File: AQ061306.RES

Quant Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)  
 Title : Element ID: 0606016  
 Last Update : Tue Jun 13 14:28:50 2006  
 Response via : Initial Calibration  
 DataAcq Meth : AQ061306

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) Methyl Acrylate	4.60	55	381075	23.54	ug/l	97
30) Methacrylonitrile	4.77	41	228365	24.23	ug/l	99
31) Bromochloromethane	4.75	128	812720	25.54	ug/l	94
32) Tetrahydrofuran	4.83	42	85842	23.14	ug/l	98
33) Chloroform	4.90	83	2014343	25.03	ug/l	99
34) 1,1,1-Trichloroethane	5.15	97	1841103	24.95	ug/l	99
36) Cyclohexane	5.21	56	816523	21.38	ug/l	95
37) 1-Chlorobutane	5.35	56	1297445	23.46	ug/l	97
38) 1,1-Dichloropropene	5.42	75	1246762	24.37	ug/l	99
39) Carbon Tetrachloride	5.41	117	1898616	24.87	ug/l	99
40) Benzene	5.75	78	2328228	23.63	ug/l	100
42) 1,2-Dichloroethane	5.79	62	852204	25.73	ug/l	94
43) Tertiary-amyl methyl ether	6.02	73	1667713	23.66	ug/l	99
44) Trichloroethene	6.85	95	1371702	24.81	ug/l	96
45) Methyl Cyclohexane	7.13	83	931097	21.86	ug/l	97
46) 1,2-Dichloropropane	7.21	63	948183	23.44	ug/l	98
47) Dibromomethane	7.40	93	1018636	24.82	ug/l	99
48) 1,4-Dioxane	7.50	88	58146	328.52	ug/l	90
49) Methyl Methacrylate	7.55	41	391463	22.86	ug/l	98
50) Bromodichloromethane	7.73	83	2043404	25.27	ug/l	99
51) 2-Nitropropane	8.16	43	97215	24.42	ug/l	98
52) 2-Chloroethyl vinyl ether	8.35	63	522290	80.40	ug/l	97
53) 4-Methyl-2-Pentanone	8.87	58	796530	116.21	ug/l	97
54) cis-1,3-Dichloropropene	8.53	75	1476160	25.05	ug/l	99
55) Toluene	9.10	92	1847039	24.74	ug/l	100
56) trans-1,3-Dichloropropene	9.56	75	1164007	25.58	ug/l	99
57) 1,1,2-Trichloroethane	9.86	83	729700	24.41	ug/l	98
60) 2-Hexanone	10.39	43	1249758	117.19	ug/l	96
61) Ethyl Methacrylate	9.83	69	819370	23.01	ug/l	93
62) 1,3-Dichloropropane	10.14	76	1190062	23.82	ug/l	99
63) Tetrachloroethene	10.05	164	1337124	24.40	ug/l	98
64) Dibromochloromethane	10.53	129	2170285	25.14	ug/l	99
65) 1,2-Dibromoethane	10.67	107	1498557	24.40	ug/l	99
66) 1-Chlorohexane	11.67	91	1239002	23.53	ug/l	99
67) Chlorobenzene	11.60	112	2804513	24.68	ug/l	100
68) 1,1,1,2-Tetrachloroethane	11.79	131	1626808	23.94	ug/l	98
69) Ethylbenzene	11.87	91	3688333	23.99	ug/l	100
70) Xylene P,M	12.10	106	3019060	48.42	ug/l	98
71) Xylene O	12.80	106	1480846	24.41	ug/l	98
72) Styrene	12.85	104	2588097	24.65	ug/l	100
73) Bromoform	13.13	173	1398600	25.40	ug/l	95
74) cis-1,4-Dichloro-2-butene	13.73	75	285334m	27.28	ug/l	

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

Data File : Q:\VOA\MS4\_MH\MH0606\MH062806\M415213.D Vial: 2  
 Acq On : 28 Jun 2006 8:39 am Operator: MD  
 Sample : BPF0232-CCV1 Inst : VOA MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jun 28 14:16 19106 Quant Results File: AQ061306.RES

Quant Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)  
 Title : Element ID: 0606016  
 Last Update : Tue Jun 13 14:28:50 2006  
 Response via : Initial Calibration  
 DataAcq Meth : AQ061306

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
77) Isopropylbenzene	13.53	105	3925600	23.50	ug/l	99
78) Trans-1,4-Dichloro-2-Buten	14.25	53	182513	24.44	ug/l	96
79) 1,2,3-Trichloropropane	14.17	75	894232	23.48	ug/l	99
80) Bromobenzene	13.99	156	1587268	25.31	ug/l	100
81) 1,1,2,2-Tetrachloroethane	14.14	83	1142346	22.99	ug/l	99
82) n-Propylbenzene	14.31	91	4743118	23.44	ug/l	100
83) 2-Chlorotoluene	14.40	91	2781371	24.44	ug/l	98
84) 4-Chlorotoluene	14.62	91	3548027	23.75	ug/l	100
85) 1,3,5-Trimethylbenzene	14.68	105	3185344	23.18	ug/l	99
86) Pentachloroethane	15.27	119	4458454	23.38	ug/l	99
87) tert-Butylbenzene	15.27	119	4458454	23.38	ug/l	100
88) 1,2,4-Trimethylbenzene	15.38	105	3328842	23.43	ug/l	98
89) sec-Butylbenzene	15.69	105	4193254	22.71	ug/l	99
90) 1,3 Dichlorobenzene	15.82	146	2556490	24.36	ug/l	99
91) 4-Isopropyltoluene	16.00	119	3546386	23.21	ug/l	99
92) 1,4 Dichlorobenzene	16.00	146	2628705	24.02	ug/l	100
93) n-Butylbenzene	16.79	91	2864895	22.78	ug/l	99
94) 1,2 Dichlorobenzene	16.70	146	2267273	24.14	ug/l	99
95) Hexachloroethane	17.16	117	1405168	23.17	ug/l	98
96) 1,2-Dibromo-3-Chloropropan	18.23	75	182925	26.64	ug/l	95
97) 1,2,4-Trichlorobenzene	20.15	180	1642928	22.92	ug/l	99
98) Hexachlorobutadiene	20.56	225	744697	23.24	ug/l	99
99) Naphthalene	20.60	128	1770333	21.83	ug/l	100
100) 1,2,3-Trichlorobenzene	21.00	180	1291555	22.70	ug/l	99

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

## ANALYSIS SEQUENCE

BPF0233

Instrument: VMS4

Calibration ID: ~~0606016~~ CC060606

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0233-TUN1	QC		1		6F28048	6F22041	
BPF0233-CCV1	QC		2		6F28049	6F22041	
BF62823-BS1	QC		3			6F22041	
BF62823-BSD1	QC		4			6F22041	
BF62823-BLK1	QC		5			6F22041	
0606346-13	VOC: x8260 ppb VOA	F	6			6F22041	MACTEC Engineering & Consulting, Inc
0606346-14	VOC: x8260 ppb VOA	F	7			6F22041	MACTEC Engineering & Consulting, Inc
0606346-15	VOC: x8260 ppb VOA	G	8			6F22041	MACTEC Engineering & Consulting, Inc
0606383-16	TB: 8260 ppb VOA	A	9			6F22041	MACTEC Engineering & Consulting, Inc
0606375-01	VOC: 8260 ppb DoD VOA	G	10			6F22041	RC & D
0606383-15	VOC: x8260 ppb VOA	E	11			6F22041	MACTEC Engineering & Consulting, Inc
0606371-01	VOC: x8260 ppm VOA	F	12			6F22041	Vanasse Hangen Brustlin, Inc.
0606384-01	VOC: x8260 ppb VOA	C	13			6F22041	ESS Group, Inc. (RI)
0606349-08	VOC: x8260 ppb VOA	B	14			6F22041	Blackstone Consulting
0606349-10	VOC: x8260 ppb VOA	E	15			6F22041	Blackstone Consulting
0606363-01	OC: 624 ppb Stanley Short Li	A	16			6F22041	Stanley-Bostitch
0606363-01	VOC: 624 ppb VOA	A	17			6F22041	Stanley-Bostitch
0606359-04	TB: 624 ppb VOA	A	18			6F22041	Day-O-Lite Manufacturing
0606359-03	VOC: 624 ppb VOA	B	19			6F22041	Day-O-Lite Manufacturing
0606348-03	TB: 624 ppb VOA	A	20			6F22041	New England Gas Company, Inc.
0606348-02	TB: 624 ppb VOA	H	21			6F22041	New England Gas Company, Inc.
0606348-02	TB: 8260 ppb VOA	H	22			6F22041	New England Gas Company, Inc.
0606348-02	OC: 624 ppb Stanley Short Li	H	23			6F22041	New England Gas Company, Inc.
0606348-02	VOC: 624 ppb VOA	H	24			6F22041	New England Gas Company, Inc.
0606348-02	VOC: 8260 ppb DoD VOA	H	25			6F22041	New England Gas Company, Inc.
0606348-02	VOC: x8260 ppb VOA	H	26			6F22041	New England Gas Company, Inc.
0606348-02	VOC: x8260 ppm VOA	H	27			6F22041	New England Gas Company, Inc.
BF62823-MS1	QC		28			6F22041	
BF62823-MSD1	QC		29			6F22041	
0606349-07	VOC: x8260 ppb VOA	F	30			6F22041	Blackstone Consulting
0606349-14	VOC: x8260 ppb VOA	F	31			6F22041	Blackstone Consulting
0606385-03	VOC: x8260 ppb VOA	B	32			6F22041	Alliance Environmental Group
0606385-02	VOC: x8260 ppb VOA	B	33			6F22041	Alliance Environmental Group

Samples Loaded By

Date

Data Prepared By

Date

# ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/28/06	30	M4 15241	Test BK 8 <sup>th</sup> hole	Ag061306		no
	31	M4 42	6F0823-61K1			
	32	M4 47	0606376-13			
	33	M4 44	-14		PH-12	
	34	M4 45	-15			
	35	M4 46	0606383-16			
	36	M4 47	0606375-01			
	37	M4 48	0606383-15			
	38	M4 49	0606371-01			
	39	M4 50	0606384-01			
	40	M4 51	0606349-08		100X	
	41	M4 52	-10			
	42	M4 53	-11			
	43	M4 54	-12			
	44	M4 55	-13			
	45	M4 56	-14		100X	
6/28/06	46	M4 57	0606385-01	Ag061306		no

**Run Sequence Confirmation**

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: 6F22039

On-column IS: 6F22041

# ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/28/06	47	M4 15258	0606385-02	A6061306	pk-2	no
	48	M4 59	-03			
	49	M4 60	-04			
	50	M4 61	-06			
	51	M4 62	0606359-04		TCE Blanket (AmBks)	
	52	M4 63	0606348-03		pk-2 bins run within 2 hrs	
	2	M4 64	0606363-01			
	3	M4 65	0606359-03			
	4	M4 66	0606348-02			
	5	M4 67	BF67873-MS1			
6/28/06	6	M4 68	BF67873-MS1	A6061306	BF1208111111 100/1000 0606348-02	
6/29/06	1	M4 69	BF67873-MS1	A6061306	BF12081 100/1000 0606348-02	no
	2	M4 70	BF67873-MS1		BF29006	
	3	M4 71	BF67873-MS1		BF29007	
	4	M4 72	BF67873-MS1		BF29008 200/1500	
	5	M4 73	Test BLC		BF12081 200/1500	
6/29/06	6	M4 74	BF67873-MS1	A6061306		no

**Run Sequence Confirmation**

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: BF22059

On-column IS: BF22041

# ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/28/06	B	M4 15224	0606346-01	Ag061306		no
	14	M4 25	-02		PH22	
	15	M4 26	-03			
	16	M4 27	-05			
	17	M4 28	-06			
	18	M4 29	-07			
	19	M4 30	-08			
	20	M4 31	-09			
	21	M4 32	-10			
	22	M4 33	-11			
	23	M4 34	-12			
	24	M4 35	BF62822-MS1		BF12081 wgt/100L 0606346-02	
	25	M4 36	BF62822-MS1		BF12081 wgt/100L 1000 0606346-02	
	26	M4 37	BF62833-TUM		BF28048	
	27	M4 38	BF62833-CEN		BF28049	
	28	M4 39	BF62823-BS1		BF12081 29L/50L	
6/28/06	29	M4 40	BF62823-BS1	Ag061306	BF12081 29L/50L	no

**Run Sequence Confirmation**

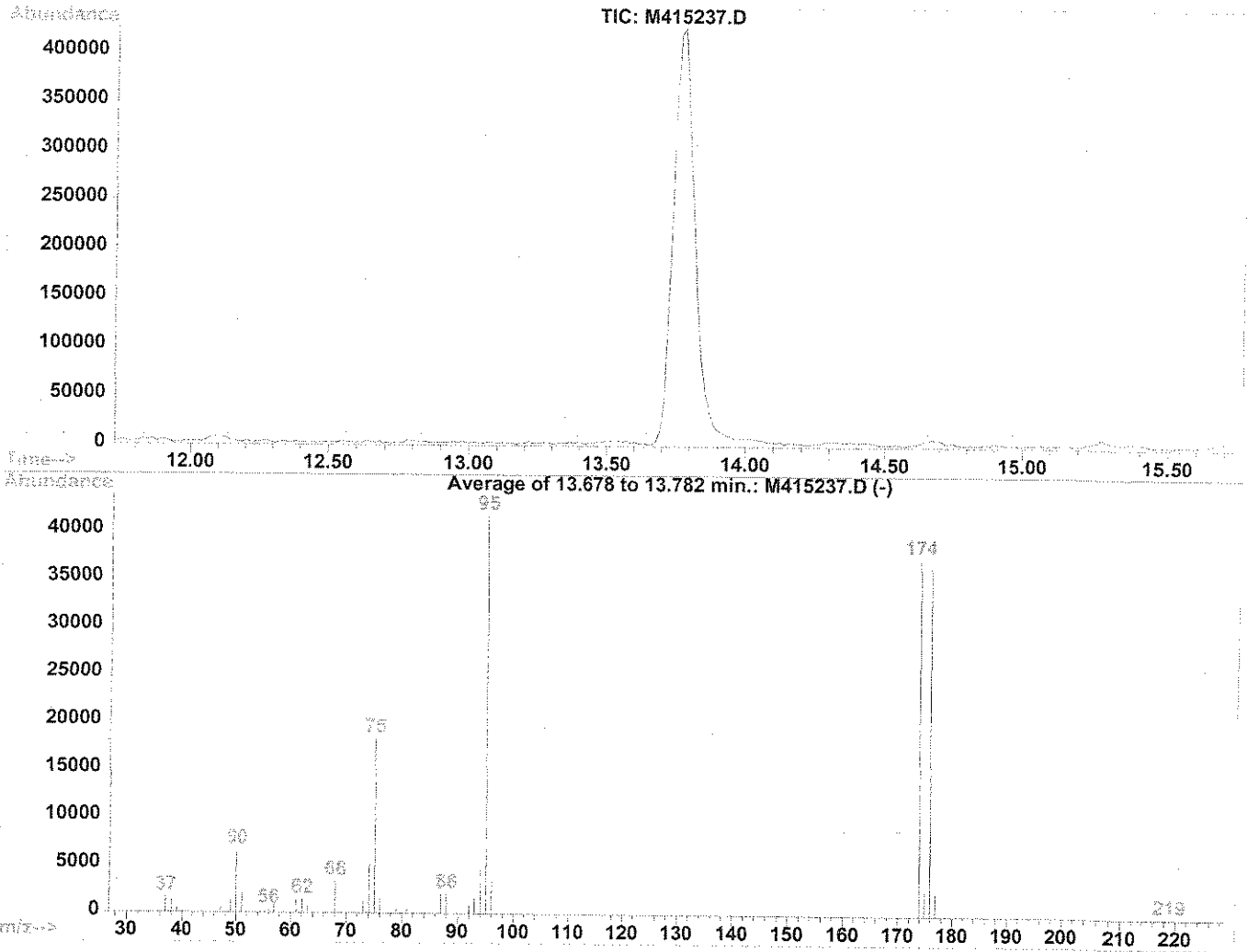
Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: BF 22039

On-column IS: BF 22041

Data File : Q:/VOA/MS4\_MH/MH0606/MH062806\M415237.D Vial: 26  
 Acq On : 28 Jun 2006 9:00 pm Operator: MD  
 Sample : BPF0233-TUN1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)  
 Title : Element ID: 0606016



Spectrum Information: Average of 13.678 to 13.782 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.6	6518	PASS
75	95	30	60	43.8	18288	PASS
95	95	100	100	100.0	41715	PASS
96	95	5	9	8.0	3325	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	89.5	37337	PASS
175	174	5	9	7.1	2651	PASS
176	174	95	101	97.7	36496	PASS
177	176	5	9	6.5	2390	PASS



Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4\_MH/MH0606/MH062806\M415238.D Vial: 27  
 Acq On : 28 Jun 2006 9:29 pm Operator: MD  
 Sample : BPF0233-CCV1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)  
 Title : Element ID: 0606016  
 Last Update : Tue Jun 13 14:28:50 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I Fluorobenzene	1.000	1.000	0.0	85	0.00
2	Dichlorodifluoromethane	0.306	0.281	8.2	80	0.00
3	Chloromethane	0.168	0.147	12.5	80	0.00
4	Vinyl Chloride	0.160	0.153	4.4	83	0.00
5	Bromomethane	0.180	0.185	-2.8	82	0.00
6	Chloroethane	0.094	0.092	2.1	82	0.00
7	Trichlorofluoromethane	0.529	0.540	-2.1	89	0.00
8	Diethyl ether	0.097	0.103	-6.2	90	-0.02
9	Acrolein	0.015	0.013	13.3	75	0.00
10	1,1,2-Trichloro-1,2,2-trifl	0.562	0.554	1.4	85	0.00
11	Acetone	0.006	0.006	0.0	84	0.00
12	Iodomethane	0.464	0.480	-3.4	84	0.00
13	Carbon Disulfide	0.674	0.628	6.8	83	0.00
14	1,1-Dichloroethene	0.265	0.263	0.8	87	0.00
15	Allyl Chloride	0.249	0.237	4.8	81	0.00
16	Methyl Acetate	0.074	0.068	8.1	83	0.00
17	Methylene Chloride	0.261	0.249	4.6	84	0.00
18	Methyl tert-Butyl Ether	0.377	0.374	0.8	87	0.00
19	Acrylonitrile	0.027	0.026	3.7	85	0.00
20	trans-1,2-Dichloroethene	0.307	0.306	0.3	86	0.00
21	1,1-Dichloroethane	0.453	0.440	2.9	85	-0.02
22	Chloroprene	0.260	0.260	0.0	87	0.00
23	Vinyl Acetate	0.607	0.548	9.7	79	0.00
24	Di-isopropyl ether	0.693	0.636	8.2	80	-0.02
25	Ethyl tertiary-butyl ether	0.591	0.572	3.2	85	0.00
26	2-Butanone	0.008	0.009	-12.5	87	0.00
27	cis-1,2 Dichloroethene	0.322	0.321	0.3	87	-0.02
28	2,2-Dichloropropane	0.351	0.322	8.3	79	0.00
29	Methyl Acrylate	0.116	0.114	1.7	85	0.00
30	Methacrylonitrile	0.067	0.068	-1.5	89	0.00
31	Bromochloromethane	0.228	0.237	-3.9	88	0.00
32	Tetrahydrofuran	0.027	0.026	3.7	80	-0.02
33	Chloroform	0.576	0.581	-0.9	88	-0.02
34	1,1,1-Trichloroethane	0.528	0.536	-1.5	89	0.00
35	S Dibromofluoromethane(SURR)	0.733	0.735	-0.3	88	-0.02
36	Cyclohexane	0.273	0.234	14.3	72	0.00
37	1-Chlorobutane	0.396	0.390	1.5	89	0.00
38	1,1-Dichloropropene	0.366	0.364	0.5	87	0.00
39	Carbon Tetrachloride	0.547	0.553	-1.1	89	0.00
40	Benzene	0.706	0.684	3.1	85	0.00
41	S 1,2-Dichloroethane-d4(SURR)	0.218	0.228	-4.6	90	-0.02
42	1,2-Dichloroethane	0.237	0.250	-5.5	91	0.00

(#) = Out of Range

697

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4\_MH/MH0606/MH062806\M415238.D Vial: 27  
 Acq On : 28 Jun 2006 9:29 pm Operator: MD  
 Sample : BPF0233-CCV1 Inst : VOA MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)  
 Title : Element ID: 0606016  
 Last Update : Tue Jun 13 14:28:50 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
43	Tertiary-amyl methyl ether	0.505	0.493	2.4	86	0.00
44	Trichloroethene	0.396	0.400	-1.0	87	0.00
45	Methyl Cyclohexane	0.305	0.275	9.8	78	0.00
46	1,2-Dichloropropane	0.290	0.278	4.1	83	0.00
47	Dibromomethane	0.294	0.301	-2.4	88	0.00
48	1,4-Dioxane	0.001	0.000	100.0#	108	0.00
49	Methyl Methacrylate	0.123	0.117	4.9	83	0.00
50	Bromodichloromethane	0.579	0.596	-2.9	88	0.00
51	2-Nitropropane	0.029	0.029	0.0	90	0.00
52	2-Chloroethyl vinyl ether	0.047	0.024	48.9#	50#	0.00
53	4-Methyl-2-Pentanone	0.049	0.048	2.0	84	0.00
54	cis-1,3-Dichloropropene	0.422	0.422	0.0	85	0.00
55	Toluene	0.535	0.540	-0.9	88	0.00
56	trans-1,3-Dichloropropene	0.326	0.334	-2.5	86	0.00
57	1,1,2-Trichloroethane	0.214	0.213	0.5	86	0.00
58 I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00
59 S	Toluene-d8 (SURR)	1.036	1.015	2.0	87	0.00
60	2-Hexanone	0.086	0.083	3.5	83	0.00
61	Ethyl Methacrylate	0.288	0.277	3.8	86	0.00
62	1,3-Dichloropropane	0.405	0.396	2.2	86	0.00
63	Tetrachloroethene	0.444	0.439	1.1	87	0.00
64	Dibromochloromethane	0.699	0.714	-2.1	88	0.00
65	1,2-Dibromoethane	0.497	0.501	-0.8	88	0.00
66	1-Chlorohexane	0.426	0.410	3.8	82	0.00
67	Chlorobenzene	0.920	0.919	0.1	88	0.00
68	1,1,1,2-Tetrachloroethane	0.550	0.531	3.5	89	0.00
69	Ethylbenzene	1.245	1.209	2.9	86	0.00
70	Xylene P,M	0.505	0.499	1.2	87	0.00
71	Xylene O	0.491	0.485	1.2	87	0.00
72	Styrene	0.850	0.848	0.2	87	0.00
73	Bromoform	0.446	0.461	-3.4	90	0.00
74	cis-1,4-Dichloro-2-butene	0.085	0.083	2.4	79	0.00
75 S	Bromofluorobenzene (SURR)	0.712	0.697	2.1	86	0.00
76 I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	85	0.00
77	Isopropylbenzene	2.426	2.322	4.3	84	0.00
78	Trans-1,4-Dichloro-2-Butene	0.108	0.109	-0.9	85	0.00
79	1,2,3-Trichloropropane	0.553	0.532	3.8	85	0.00
80	Bromobenzene	0.911	0.930	-2.1	89	0.00
81	1,1,2,2-Tetrachloroethane	0.722	0.699	3.2	88	0.00
82	n-Propylbenzene	2.940	2.720	7.5	82	0.00

(#) = Out of Range

698

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4\_MH/MH0606/MH062806\M415238.D Vial: 27  
 Acq On : 28 Jun 2006 9:29 pm Operator: MD  
 Sample : BPF0233-CCV1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)  
 Title : Element ID: 0606016  
 Last Update : Tue Jun 13 14:28:50 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	2-Chlorotoluene	1.653	1.429	13.6	86	0.00
84	4-Chlorotoluene	2.170	2.101	3.2	86	0.00
85	1,3,5-Trimethylbenzene	1.996	1.892	5.2	84	0.00
86	Pentachloroethane	2.770	2.645	4.5	84	0.00
87	tert-Butylbenzene	2.770	2.645	4.5	84	0.00
88	1,2,4-Trimethylbenzene	2.064	1.969	4.6	84	0.00
89	sec-Butylbenzene	2.682	2.480	7.5	81	0.00
90	1,3 Dichlorobenzene	1.524	1.491	2.2	86	0.00
91	4-Isopropyltoluene	2.220	2.081	6.3	83	0.00
92	1,4 Dichlorobenzene	1.589	1.548	2.6	87	0.00
93	n-Butylbenzene	1.827	1.672	8.5	80	0.00
94	1,2 Dichlorobenzene	1.364	1.339	1.8	87	0.00
95	Hexachloroethane	0.881	0.828	6.0	82	0.00
96	1,2-Dibromo-3-Chloropropane	0.100	0.109	-9.0	90	0.00
97	1,2,4-Trichlorobenzene	1.041	0.959	7.9	82	0.00
98	Hexachlorobutadiene	0.466	0.418	10.3	83	0.00
99	Naphthalene	1.178	1.042	11.5	81	0.00
100	1,2,3-Trichlorobenzene	0.827	0.761	8.0	84	0.00

Data File : Q:/VOA/MS4 MH/MH0606/MH062806\M415238.D Vial: 27  
 Acq On : 28 Jun 2006 9:29 pm Operator: MD  
 Sample : BPF0233-CCV1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jun 29 12:21 19106

Quant Results File: AQ061306.RES

Quant Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)

Title : Element ID: 0606016

Last Update : Tue Jun 13 14:28:50 2006

Response via : Initial Calibration

DataAcq Meth : AQ061306

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.23	96	3514956	25.00	ug/l	0.00
58) Chlorobenzene-d5	11.55	117	3103647	25.00	ug/l	0.00
76) 1,4 Dichlorobenzene-D4	15.97	152	1724184	25.00	ug/l	0.00

System Monitoring Compounds

35) Dibromofluoromethane (SURR)	5.15	111	2583121	25.05	ug/l	-0.02
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.20%
41) 1,2-Dichloroethane-d4 (SURR)	5.65	65	802732	26.20	ug/l	-0.02
Spiked Amount	25.000	Range	70 - 130	Recovery	=	104.80%
59) Toluene-d8 (SURR)	8.99	98	3150773	24.51	ug/l	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.04%
75) Bromofluorobenzene (SURR)	13.77	95	2164543	24.50	ug/l	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.22	85	988146	22.99	ug/l	99
3) Chloromethane	1.37	50	516522	21.89	ug/l	99
4) Vinyl Chloride	1.41	62	538240	23.96	ug/l	99
5) Bromomethane	1.64	94	651987	25.74	ug/l	97
6) Chloroethane	1.71	64	322674	24.29	ug/l	100
7) Trichlorofluoromethane	1.90	101	1896704	25.51	ug/l	99
8) Diethyl ether	2.13	59	361486	26.42	ug/l	98
9) Acrolein	2.23	56	45022	21.07	ug/l	97
10) 1,1,2-Trichloro-1,2,2-trif	2.32	101	1947884	24.64	ug/l	97
11) Acetone	2.37	58	99393	128.23	ug/l	90
12) Iodomethane	2.45	142	1688245	25.86	ug/l	100
13) Carbon Disulfide	2.50	76	2207267	23.28	ug/l	100
14) 1,1-Dichloroethene	2.31	96	924725	24.82	ug/l	98
15) Allyl Chloride	2.65	41	833743	23.78	ug/l	90
16) Methyl Acetate	2.68	43	240415	23.01	ug/l	99
17) Methylene Chloride	2.77	84	875163	23.84	ug/l	97
18) Methyl tert-Butyl Ether	3.06	73	1314626	24.81	ug/l	97
19) Acrylonitrile	3.04	53	90898	24.01	ug/l	95
20) trans-1,2-Dichloroethene	3.05	96	1074278	24.86	ug/l	98
21) 1,1-Dichloroethane	3.54	63	1547629	24.28	ug/l	99
22) Chloroprene	3.67	53	914848	25.03	ug/l	99
23) Vinyl Acetate	3.66	43	1925718	22.55	ug/l	100
24) Di-isopropyl ether	3.69	45	2236164	22.96	ug/l	90
25) Ethyl tertiary-butyl ether	4.23	59	2011407	24.19	ug/l	98
26) 2-Butanone	4.45	72	160223	135.74	ug/l	87
27) cis-1,2 Dichloroethene	4.37	96	1129860	24.96	ug/l	99
28) 2,2-Dichloropropane	4.37	77	1131332	22.92	ug/l	98

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

Data File : Q:/VOA/MS4 MH/MH0606/MH062806\M415238.D Vial: 27  
 Acq On : 28 Jun 2006 9:29 pm Operator: MD  
 Sample : BPF0233-CCV1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jun 29 12:21 19106 Quant Results File: AQ061306.RES

Quant Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)  
 Title : Element ID: 0606016  
 Last Update : Tue Jun 13 14:28:50 2006  
 Response via : Initial Calibration  
 DataAcq Meth : AQ061306

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) Methyl Acrylate	4.61	55	400335	24.55	ug/l	97
30) Methacrylonitrile	4.76	41	237885	25.07	ug/l	98
31) Bromochloromethane	4.75	128	831605	25.95	ug/l	95
32) Tetrahydrofuran	4.81	42	90471	24.22	ug/l	97
33) Chloroform	4.90	83	2040858	25.18	ug/l	99
34) 1,1,1-Trichloroethane	5.15	97	1882401	25.34	ug/l	99
36) Cyclohexane	5.22	56	824099	21.43	ug/l	96
37) 1-Chlorobutane	5.34	56	1370733	24.61	ug/l	98
38) 1,1-Dichloropropene	5.42	75	1280262	24.85	ug/l	99
39) Carbon Tetrachloride	5.40	117	1943578	25.28	ug/l	98
40) Benzene	5.74	78	2403777	24.23	ug/l	100
42) 1,2-Dichloroethane	5.79	62	880276	26.39	ug/l	94
43) Tertiary-amyl methyl ether	6.01	73	1733501	24.42	ug/l	99
44) Trichloroethene	6.84	95	1406595	25.26	ug/l	98
45) Methyl Cyclohexane	7.14	83	965866	22.51	ug/l	97
46) 1,2-Dichloropropane	7.22	63	976077	23.96	ug/l	98
47) Dibromomethane	7.41	93	1056508	25.57	ug/l	97
48) 1,4-Dioxane	7.50	88	31024	174.05	ug/l	98
49) Methyl Methacrylate	7.56	41	411649	23.87	ug/l	98
50) Bromodichloromethane	7.74	83	2093171	25.70	ug/l	100
51) 2-Nitropropane	8.15	43	101652	25.35	ug/l	97
52) 2-Chloroethyl vinyl ether	8.35	63	420876	64.34	ug/l	99
53) 4-Methyl-2-Pentanone	8.87	58	842477	122.05	ug/l	97
54) cis-1,3-Dichloropropene	8.53	75	1484864	25.02	ug/l	99
55) Toluene	9.09	92	1897862	25.24	ug/l	100
56) trans-1,3-Dichloropropene	9.55	75	1174990	25.64	ug/l	100
57) 1,1,2-Trichloroethane	9.85	83	750056	24.92	ug/l	99
60) 2-Hexanone	10.39	43	1292515	120.54	ug/l	97
61) Ethyl Methacrylate	9.82	69	860927	24.05	ug/l	98
62) 1,3-Dichloropropane	10.13	76	1227644	24.44	ug/l	100
63) Tetrachloroethene	10.04	164	1361083	24.70	ug/l	99
64) Dibromochloromethane	10.52	129	2216465	25.54	ug/l	98
65) 1,2-Dibromoethane	10.67	107	1553596	25.16	ug/l	100
66) 1-Chlorohexane	11.68	91	1272173	24.03	ug/l	97
67) Chlorobenzene	11.61	112	2850757	24.96	ug/l	99
68) 1,1,1,2-Tetrachloroethane	11.79	131	1648628	24.13	ug/l	99
69) Ethylbenzene	11.86	91	3752096	24.28	ug/l	100
70) Xylene P,M	12.10	106	3095466	49.38	ug/l	99
71) Xylene O	12.81	106	1504242	24.66	ug/l	100
72) Styrene	12.84	104	2630394	24.91	ug/l	100
73) Bromoform	13.13	173	1431285	25.85	ug/l	95
74) cis-1,4-Dichloro-2-butene	13.72	75	258763m	24.61	ug/l	

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

Data File : Q:/VOA/MS4 MH/MH0606/MH062806\M415238.D Vial: 27  
 Acq On : 28 Jun 2006 9:29 pm Operator: MD  
 Sample : BPF0233-CCV1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jun 29 12:21 19106 Quant Results File: AQ061306.RES

Quant Method : C:\HPCHEM\1\METHODS\AQ061306.M (RTE Integrator)  
 Title : Element ID: 0606016  
 Last Update : Tue Jun 13 14:28:50 2006  
 Response via : Initial Calibration  
 DataAcq Meth : AQ061306

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
77) Isopropylbenzene	13.53	105	4003161	23.93	ug/l	100
78) Trans-1,4-Dichloro-2-Buten	14.26	53	187416	25.05	ug/l	94
79) 1,2,3-Trichloropropane	14.17	75	917296	24.04	ug/l	99
80) Bromobenzene	14.00	156	1604276	25.54	ug/l	97
81) 1,1,2,2-Tetrachloroethane	14.14	83	1205507	24.22	ug/l	98
82) n-Propylbenzene	14.32	91	4690058	23.13	ug/l	100
83) 2-Chlorotoluene	14.39	91	2463678	21.61	ug/l	99
84) 4-Chlorotoluene	14.63	91	3622647	24.21	ug/l	100
85) 1,3,5-Trimethylbenzene	14.67	105	3261794	23.70	ug/l	100
86) Pentachloroethane	15.27	119	4561225	23.88	ug/l	98
87) tert-Butylbenzene	15.27	119	4561225	23.88	ug/l	99
88) 1,2,4-Trimethylbenzene	15.37	105	3394876	23.85	ug/l	99
89) sec-Butylbenzene	15.68	105	4275240	23.11	ug/l	99
90) 1,3 Dichlorobenzene	15.82	146	2570377	24.45	ug/l	100
91) 4-Isopropyltoluene	16.01	119	3588120	23.44	ug/l	100
92) 1,4 Dichlorobenzene	16.01	146	2668922	24.35	ug/l	99
93) n-Butylbenzene	16.79	91	2882504	22.88	ug/l	99
94) 1,2 Dichlorobenzene	16.70	146	2307989	24.53	ug/l	99
95) Hexachloroethane	17.16	117	1426883	23.49	ug/l	99
96) 1,2-Dibromo-3-Chloropropan	18.24	75	187893	27.31	ug/l	97
97) 1,2,4-Trichlorobenzene	20.15	180	1653697	23.03	ug/l	100
98) Hexachlorobutadiene	20.55	225	721468	22.47	ug/l	99
99) Naphthalene	20.60	128	1796729	22.11	ug/l	100
100) 1,2,3-Trichlorobenzene	21.00	180	1311600	23.01	ug/l	99

# Semi-Volatile Organics Data Package

*LL PAH (SIMS)*

# Semi-Volatile Organics Sample Data



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW10  
Date Sampled: 06/21/06 11:45  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-01  
Sample Matrix: Surface Water  
Analyst: VSC  
Prepared: 06/23/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
2-Methylnaphthalene	ND	ug/L	0.20	1	06/28/06
Acenaphthene	ND	ug/L	0.20	1	06/28/06
Acenaphthylene	ND	ug/L	0.20	1	06/28/06
Anthracene	ND	ug/L	0.20	1	06/28/06
Benzo(a)anthracene	ND	ug/L	0.20	1	06/28/06
Benzo(a)pyrene	ND	ug/L	0.20	1	06/28/06
Benzo(b)fluoranthene	ND	ug/L	0.20	1	06/28/06
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	06/28/06
Benzo(k)fluoranthene	ND	ug/L	0.30	1	06/28/06
Chrysene	ND	ug/L	0.20	1	06/28/06
Dibenzo(a,h)Anthracene	ND	ug/L	0.20	1	06/28/06
Fluoranthene	ND	ug/L	0.20	1	06/28/06
Fluorene	ND	ug/L	0.20	1	06/28/06
Indeno(1,2,3-cd)Pyrene	ND	ug/L	0.30	1	06/28/06
Naphthalene	ND	ug/L	0.20	1	06/28/06
Phenanthrene	ND	ug/L	0.20	1	06/28/06
Pyrene	ND	ug/L	0.20	1	06/28/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	62 %		30-130
Surrogate: 2-Fluorobiphenyl	68 %		30-130
Surrogate: Nitrobenzene-d5	61 %		30-130
Surrogate: p-Terphenyl-d14	68 %		30-130

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW11  
Date Sampled: 06/21/06 12:53  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-02  
Sample Matrix: Surface Water  
Analyst: VSC  
Prepared: 06/23/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
2-Methylnaphthalene	ND	ug/L	0.20	1	06/28/06
Acenaphthene	ND	ug/L	0.20	1	06/28/06
Acenaphthylene	ND	ug/L	0.20	1	06/28/06
Anthracene	ND	ug/L	0.20	1	06/28/06
Benzo(a)anthracene	ND	ug/L	0.20	1	06/28/06
Benzo(a)pyrene	ND	ug/L	0.20	1	06/28/06
Benzo(b)fluoranthene	ND	ug/L	0.20	1	06/28/06
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	06/28/06
Benzo(k)fluoranthene	ND	ug/L	0.30	1	06/28/06
Chrysene	ND	ug/L	0.20	1	06/28/06
Dibenzo(a,h)Anthracene	ND	ug/L	0.20	1	06/28/06
Fluoranthene	ND	ug/L	0.20	1	06/28/06
Fluorene	ND	ug/L	0.20	1	06/28/06
Indeno(1,2,3-cd)Pyrene	ND	ug/L	0.30	1	06/28/06
Naphthalene	ND	ug/L	0.20	1	06/28/06
Phenanthrene	ND	ug/L	0.20	1	06/28/06
Pyrene	ND	ug/L	0.20	1	06/28/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	68 %		30-130
Surrogate: 2-Fluorobiphenyl	74 %		30-130
Surrogate: Nitrobenzene-d5	67 %		30-130
Surrogate: p-Terphenyl-d14	73 %		30-130

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW19  
Date Sampled: 06/21/06 13:30  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-03  
Sample Matrix: Surface Water  
Analyst: VSC  
Prepared: 06/23/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
2-Methylnaphthalene	ND	ug/L	0.20	1	06/28/06
Acenaphthene	ND	ug/L	0.20	1	06/28/06
Acenaphthylene	ND	ug/L	0.20	1	06/28/06
Anthracene	ND	ug/L	0.20	1	06/28/06
<b>Benzo(a)anthracene</b>	<b>0.20</b>	ug/L	0.20	1	06/28/06
<b>Benzo(a)pyrene</b>	<b>0.24</b>	ug/L	0.20	1	06/28/06
Benzo(b)fluoranthene	ND	ug/L	0.20	1	06/28/06
<b>Benzo(g,h,i)perylene</b>	<b>0.38</b>	ug/L	0.20	1	06/28/06
Benzo(k)fluoranthene	ND	ug/L	0.30	1	06/28/06
<b>Chrysene</b>	<b>0.23</b>	ug/L	0.20	1	06/28/06
<b>Dibenzo(a,h)Anthracene</b>	<b>0.31</b>	ug/L	0.20	1	06/28/06
Fluoranthene	ND	ug/L	0.20	1	06/28/06
Fluorene	ND	ug/L	0.20	1	06/28/06
Indeno(1,2,3-cd)Pyrene	ND	ug/L	0.30	1	06/28/06
Naphthalene	ND	ug/L	0.20	1	06/28/06
Phenanthrene	ND	ug/L	0.20	1	06/28/06
Pyrene	ND	ug/L	0.20	1	06/28/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	62 %		30-130
Surrogate: 2-Fluorobiphenyl	69 %		30-130
Surrogate: Nitrobenzene-d5	61 %		30-130
Surrogate: p-Terphenyl-d14	71 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW12  
Date Sampled: 06/21/06 14:16  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-05  
Sample Matrix: Surface Water  
Analyst: VSC  
Prepared: 06/23/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
2-Methylnaphthalene	ND	ug/L	0.20	1	06/28/06
Acenaphthene	ND	ug/L	0.20	1	06/28/06
Acenaphthylene	ND	ug/L	0.20	1	06/28/06
Anthracene	ND	ug/L	0.20	1	06/28/06
Benzo(a)anthracene	ND	ug/L	0.20	1	06/28/06
Benzo(a)pyrene	ND	ug/L	0.20	1	06/28/06
Benzo(b)fluoranthene	ND	ug/L	0.20	1	06/28/06
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	06/28/06
Benzo(k)fluoranthene	ND	ug/L	0.30	1	06/28/06
Chrysene	ND	ug/L	0.20	1	06/28/06
Dibenzo(a,h)Anthracene	ND	ug/L	0.20	1	06/28/06
Fluoranthene	ND	ug/L	0.20	1	06/28/06
Fluorene	ND	ug/L	0.20	1	06/28/06
Indeno(1,2,3-cd)Pyrene	ND	ug/L	0.30	1	06/28/06
Naphthalene	ND	ug/L	0.20	1	06/28/06
Phenanthrene	ND	ug/L	0.20	1	06/28/06
Pyrene	ND	ug/L	0.20	1	06/28/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	63 %		30-130
Surrogate: 2-Fluorobiphenyl	69 %		30-130
Surrogate: Nitrobenzene-d5	59 %		30-130
Surrogate: p-Terphenyl-d14	81 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW16  
Date Sampled: 06/21/06 14:29  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-06  
Sample Matrix: Surface Water  
Analyst: VSC  
Prepared: 06/23/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
2-Methylnaphthalene	ND	ug/L	0.20	1	06/29/06
Acenaphthene	ND	ug/L	0.20	1	06/29/06
Acenaphthylene	ND	ug/L	0.20	1	06/29/06
Anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)pyrene	ND	ug/L	0.20	1	06/29/06
Benzo(b)fluoranthene	ND	ug/L	0.20	1	06/29/06
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	06/29/06
Benzo(k)fluoranthene	ND	ug/L	0.30	1	06/29/06
Chrysene	ND	ug/L	0.20	1	06/29/06
Dibenzo(a,h)Anthracene	ND	ug/L	0.20	1	06/29/06
Fluoranthene	ND	ug/L	0.20	1	06/29/06
Fluorene	ND	ug/L	0.20	1	06/29/06
Indeno(1,2,3-cd)Pyrene	ND	ug/L	0.30	1	06/29/06
Naphthalene	ND	ug/L	0.20	1	06/29/06
Phenanthrene	ND	ug/L	0.20	1	06/29/06
Pyrene	ND	ug/L	0.20	1	06/29/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	58 %		30-130
Surrogate: 2-Fluorobiphenyl	62 %		30-130
Surrogate: Nitrobenzene-d5	55 %		30-130
Surrogate: p-Terphenyl-d14	70 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW18  
Date Sampled: 06/21/06 14:44  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-07  
Sample Matrix: Surface Water  
Analyst: VSC  
Prepared: 06/23/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
2-Methylnaphthalene	ND	ug/L	0.20	1	06/29/06
Acenaphthene	ND	ug/L	0.20	1	06/29/06
Acenaphthylene	ND	ug/L	0.20	1	06/29/06
Anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)pyrene	ND	ug/L	0.20	1	06/29/06
Benzo(b)fluoranthene	ND	ug/L	0.20	1	06/29/06
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	06/29/06
Benzo(k)fluoranthene	ND	ug/L	0.30	1	06/29/06
Chrysene	ND	ug/L	0.20	1	06/29/06
Dibenzo(a,h)Anthracene	ND	ug/L	0.20	1	06/29/06
Fluoranthene	ND	ug/L	0.20	1	06/29/06
Fluorene	ND	ug/L	0.20	1	06/29/06
Indeno(1,2,3-cd)Pyrene	ND	ug/L	0.30	1	06/29/06
Naphthalene	ND	ug/L	0.20	1	06/29/06
Phenanthrene	ND	ug/L	0.20	1	06/29/06
Pyrene	ND	ug/L	0.20	1	06/29/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	58 %		30-130
Surrogate: 2-Fluorobiphenyl	63 %		30-130
Surrogate: Nitrobenzene-d5	58 %		30-130
Surrogate: p-Terphenyl-d14	61 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW21  
Date Sampled: 06/21/06 14:54  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-08  
Sample Matrix: Surface Water  
Analyst: VSC  
Prepared: 06/23/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
2-Methylnaphthalene	ND	ug/L	0.20	1	06/29/06
Acenaphthene	ND	ug/L	0.20	1	06/29/06
Acenaphthylene	ND	ug/L	0.20	1	06/29/06
Anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)pyrene	ND	ug/L	0.20	1	06/29/06
Benzo(b)fluoranthene	ND	ug/L	0.20	1	06/29/06
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	06/29/06
Benzo(k)fluoranthene	ND	ug/L	0.30	1	06/29/06
Chrysene	ND	ug/L	0.20	1	06/29/06
Dibenzo(a,h)Anthracene	ND	ug/L	0.20	1	06/29/06
Fluoranthene	ND	ug/L	0.20	1	06/29/06
Fluorene	ND	ug/L	0.20	1	06/29/06
Indeno(1,2,3-cd)Pyrene	ND	ug/L	0.30	1	06/29/06
Naphthalene	ND	ug/L	0.20	1	06/29/06
Phenanthrene	ND	ug/L	0.20	1	06/29/06
Pyrene	ND	ug/L	0.20	1	06/29/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	60 %		30-130
Surrogate: 2-Fluorobiphenyl	67 %		30-130
Surrogate: Nitrobenzene-d5	58 %		30-130
Surrogate: p-Terphenyl-d14	68 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW22  
Date Sampled: 06/21/06 15:05  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-09  
Sample Matrix: Surface Water  
Analyst: VSC  
Prepared: 06/23/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
2-Methylnaphthalene	ND	ug/L	0.20	1	06/29/06
Acenaphthene	ND	ug/L	0.20	1	06/29/06
Acenaphthylene	ND	ug/L	0.20	1	06/29/06
Anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)pyrene	ND	ug/L	0.20	1	06/29/06
Benzo(b)fluoranthene	ND	ug/L	0.20	1	06/29/06
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	06/29/06
Benzo(k)fluoranthene	ND	ug/L	0.30	1	06/29/06
Chrysene	ND	ug/L	0.20	1	06/29/06
Dibenzo(a,h)Anthracene	ND	ug/L	0.20	1	06/29/06
Fluoranthene	ND	ug/L	0.20	1	06/29/06
Fluorene	ND	ug/L	0.20	1	06/29/06
Indeno(1,2,3-cd)Pyrene	ND	ug/L	0.30	1	06/29/06
Naphthalene	ND	ug/L	0.20	1	06/29/06
Phenanthrene	ND	ug/L	0.20	1	06/29/06
Pyrene	ND	ug/L	0.20	1	06/29/06

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	63 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	66 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	60 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	68 %		30-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
 Client Project ID: Providence Gorham Site  
 Client Sample ID: SW23  
 Date Sampled: 06/21/06 15:15  
 Percent Solids: N/A  
 Initial Volume: 1000  
 Final Volume: 1  
 Extraction Method: 3510C

ESS Laboratory Work Order: 0606346  
 ESS Laboratory Sample ID: 0606346-10  
 Sample Matrix: Surface Water  
 Analyst: VSC  
 Prepared: 06/23/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
2-Methylnaphthalene	ND	ug/L	0.20	1	06/29/06
Acenaphthene	ND	ug/L	0.20	1	06/29/06
Acenaphthylene	ND	ug/L	0.20	1	06/29/06
Anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)pyrene	ND	ug/L	0.20	1	06/29/06
Benzo(b)fluoranthene	ND	ug/L	0.20	1	06/29/06
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	06/29/06
Benzo(k)fluoranthene	ND	ug/L	0.30	1	06/29/06
Chrysene	ND	ug/L	0.20	1	06/29/06
Dibenzo(a,h)Anthracene	ND	ug/L	0.20	1	06/29/06
Fluoranthene	ND	ug/L	0.20	1	06/29/06
Fluorene	ND	ug/L	0.20	1	06/29/06
Indeno(1,2,3-cd)Pyrene	ND	ug/L	0.30	1	06/29/06
<b>Naphthalene</b>	<b>0.20</b>	ug/L	0.20	1	06/29/06
Phenanthrene	ND	ug/L	0.20	1	06/29/06
Pyrene	ND	ug/L	0.20	1	06/29/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	80 %		30-130
Surrogate: 2-Fluorobiphenyl	92 %		30-130
Surrogate: Nitrobenzene-d5	78 %		30-130
Surrogate: p-Terphenyl-d14	162 %	+	30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW24  
Date Sampled: 06/21/06 15:25  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-11  
Sample Matrix: Surface Water  
Analyst: VSC  
Prepared: 06/23/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
2-Methylnaphthalene	ND	ug/L	0.20	1	06/29/06
Acenaphthene	ND	ug/L	0.20	1	06/29/06
Acenaphthylene	ND	ug/L	0.20	1	06/29/06
Anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)pyrene	ND	ug/L	0.20	1	06/29/06
Benzo(b)fluoranthene	ND	ug/L	0.20	1	06/29/06
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	06/29/06
Benzo(k)fluoranthene	ND	ug/L	0.30	1	06/29/06
Chrysene	ND	ug/L	0.20	1	06/29/06
Dibenzo(a,h)Anthracene	ND	ug/L	0.20	1	06/29/06
Fluoranthene	ND	ug/L	0.20	1	06/29/06
Fluorene	ND	ug/L	0.20	1	06/29/06
Indeno(1,2,3-cd)Pyrene	ND	ug/L	0.30	1	06/29/06
<b>Naphthalene</b>	<b>0.30</b>	ug/L	0.20	1	06/29/06
Phenanthrene	ND	ug/L	0.20	1	06/29/06
Pyrene	ND	ug/L	0.20	1	06/29/06

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	76 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	84 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	80 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	129 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW26  
Date Sampled: 06/21/06 15:48  
Percent Solids: N/A  
Initial Volume: 980  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-13  
Sample Matrix: Surface Water  
Analyst: VSC  
Prepared: 06/23/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
2-Methylnaphthalene	ND	ug/L	0.20	1	06/29/06
Acenaphthene	ND	ug/L	0.20	1	06/29/06
Acenaphthylene	ND	ug/L	0.20	1	06/29/06
Anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)pyrene	ND	ug/L	0.20	1	06/29/06
Benzo(b)fluoranthene	ND	ug/L	0.20	1	06/29/06
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	06/29/06
Benzo(k)fluoranthene	ND	ug/L	0.31	1	06/29/06
Chrysene	ND	ug/L	0.20	1	06/29/06
Dibenzo(a,h)Anthracene	ND	ug/L	0.20	1	06/29/06
Fluoranthene	ND	ug/L	0.20	1	06/29/06
Fluorene	ND	ug/L	0.20	1	06/29/06
Indeno(1,2,3-cd)Pyrene	ND	ug/L	0.31	1	06/29/06
Naphthalene	ND	ug/L	0.20	1	06/29/06
Phenanthrene	ND	ug/L	0.20	1	06/29/06
Pyrene	ND	ug/L	0.20	1	06/29/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	81 %		30-130
Surrogate: 2-Fluorobiphenyl	94 %		30-130
Surrogate: Nitrobenzene-d5	87 %		30-130
Surrogate: p-Terphenyl-d14	106 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW20  
Date Sampled: 06/21/06 16:09  
Percent Solids: N/A  
Initial Volume: 990  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-14  
Sample Matrix: Surface Water  
Analyst: VSC  
Prepared: 06/23/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
2-Methylnaphthalene	ND	ug/L	0.20	1	06/29/06
Acenaphthene	ND	ug/L	0.20	1	06/29/06
Acenaphthylene	ND	ug/L	0.20	1	06/29/06
Anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)pyrene	ND	ug/L	0.20	1	06/29/06
Benzo(b)fluoranthene	ND	ug/L	0.20	1	06/29/06
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	06/29/06
Benzo(k)fluoranthene	ND	ug/L	0.30	1	06/29/06
Chrysene	ND	ug/L	0.20	1	06/29/06
Dibenzo(a,h)Anthracene	ND	ug/L	0.20	1	06/29/06
Fluoranthene	ND	ug/L	0.20	1	06/29/06
Fluorene	ND	ug/L	0.20	1	06/29/06
Indeno(1,2,3-cd)Pyrene	ND	ug/L	0.30	1	06/29/06
Naphthalene	ND	ug/L	0.20	1	06/29/06
Phenanthrene	ND	ug/L	0.20	1	06/29/06
Pyrene	ND	ug/L	0.20	1	06/29/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	81 %		30-130
Surrogate: 2-Fluorobiphenyl	92 %		30-130
Surrogate: Nitrobenzene-d5	87 %		30-130
Surrogate: p-Terphenyl-d14	104 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW17  
Date Sampled: 06/21/06 16:18  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-15  
Sample Matrix: Surface Water  
Analyst: VSC  
Prepared: 06/23/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
2-Methylnaphthalene	ND	ug/L	0.20	1	06/29/06
Acenaphthene	ND	ug/L	0.20	1	06/29/06
Acenaphthylene	ND	ug/L	0.20	1	06/29/06
Anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)pyrene	ND	ug/L	0.20	1	06/29/06
Benzo(b)fluoranthene	ND	ug/L	0.20	1	06/29/06
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	06/29/06
Benzo(k)fluoranthene	ND	ug/L	0.30	1	06/29/06
Chrysene	ND	ug/L	0.20	1	06/29/06
Dibenzo(a,h)Anthracene	ND	ug/L	0.20	1	06/29/06
Fluoranthene	ND	ug/L	0.20	1	06/29/06
Fluorene	ND	ug/L	0.20	1	06/29/06
Indeno(1,2,3-cd)Pyrene	ND	ug/L	0.30	1	06/29/06
<b>Naphthalene</b>	<b>0.26</b>	ug/L	0.20	1	06/29/06
Phenanthrene	ND	ug/L	0.20	1	06/29/06
Pyrene	ND	ug/L	0.20	1	06/29/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	80 %		30-130
Surrogate: 2-Fluorobiphenyl	92 %		30-130
Surrogate: Nitrobenzene-d5	77 %		30-130
Surrogate: p-Terphenyl-d14	100 %		30-130

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# Semi-Volatile Organics Quality Control Data

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8260B Volatile Organic Compounds

##### Batch BF62823 - 5030B

Chloromethane	8.2		ug/L	10.0		82	70-130	5	20	
cis-1,2-Dichloroethene	10.3		ug/L	10.0		103	70-130	6	20	
cis-1,3-Dichloropropene	9.3		ug/L	10.0		93	70-130	5	20	
Dibromochloromethane	9.8		ug/L	10.0		98	70-130	6	20	
Dibromomethane	10.2		ug/L	10.0		102	70-130	5	20	
Dichlorodifluoromethane	8.6		ug/L	10.0		86	70-130	9	20	
Diethyl Ether	9.4		ug/L	10.0		94	70-130	10	20	
Di-isopropyl ether	9.1		ug/L	10.0		91	70-130	5	20	
Ethyl tertiary-butyl ether	9.2		ug/L	10.0		92	70-130	5	20	
Ethylbenzene	9.6		ug/L	10.0		96	70-130	6	20	
Hexachlorobutadiene	9.6		ug/L	10.0		96	70-130	0	20	
Isopropylbenzene	8.6		ug/L	10.0		86	70-130	6	20	
Methyl tert-Butyl Ether	9.8		ug/L	10.0		98	70-130	5	20	
Methylene Chloride	9.8		ug/L	10.0		98	70-130	4	20	
Naphthalene	8.8		ug/L	10.0		88	70-130	7	20	
n-Butylbenzene	9.1		ug/L	10.0		91	70-130	5	20	
n-Propylbenzene	8.8		ug/L	10.0		88	70-130	11	20	
sec-Butylbenzene	9.1		ug/L	10.0		91	70-130	4	20	
Styrene	9.6		ug/L	10.0		96	70-130	6	20	
tert-Butylbenzene	9.3		ug/L	10.0		93	70-130	5	20	
Tertiary-amyl methyl ether	9.7		ug/L	10.0		97	70-130	4	20	
Tetrachloroethene	9.5		ug/L	10.0		95	70-130	6	20	
Tetrahydrofuran	8.7		ug/L	10.0		87	70-130	8	20	
Toluene	9.8		ug/L	10.0		98	70-130	4	20	
trans-1,2-Dichloroethene	9.8		ug/L	10.0		98	70-130	6	20	
trans-1,3-Dichloropropene	8.8		ug/L	10.0		88	70-130	6	20	
Trichloroethene	9.6		ug/L	10.0		96	70-130	5	20	
Trichlorofluoromethane	9.4		ug/L	10.0		94	70-130	6	20	
Vinyl Acetate	9.0		ug/L	10.0		90	70-130	4	20	
Vinyl Chloride	9.1		ug/L	10.0		91	70-130	6	20	
Xylene O	9.6		ug/L	10.0		96	70-130	6	20	
Xylene P,M	19.3		ug/L	20.0		96	70-130	6	20	
Surrogate: 1,2-Dichloroethane-d4	25.2		ug/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	24.1		ug/L	25.0		96	70-130			
Surrogate: Dibromofluoromethane	25.0		ug/L	25.0		100	70-130			
Surrogate: Toluene-d8	24.2		ug/L	25.0		97	70-130			

#### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

##### Batch BF62310 - 3510C

Blank										
2-Methylnaphthalene	ND	0.20	ug/L							
Acenaphthene	ND	0.20	ug/L							
Acenaphthylene	ND	0.20	ug/L							
Anthracene	ND	0.20	ug/L							
Benzo(a)anthracene	ND	0.20	ug/L							
Benzo(a)pyrene	ND	0.20	ug/L							
Benzo(b)fluoranthene	ND	0.20	ug/L							

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

##### Batch BF62310 - 3510C

Benzo(g,h,i)perylene	ND	0.20	ug/L							
Benzo(k)fluoranthene	ND	0.30	ug/L							
Chrysene	ND	0.20	ug/L							
Dibenzo(a,h)Anthracene	ND	0.20	ug/L							
Fluoranthene	ND	0.20	ug/L							
Fluorene	ND	0.20	ug/L							
Indeno(1,2,3-cd)Pyrene	ND	0.30	ug/L							
Naphthalene	ND	0.20	ug/L							
Phenanthrene	ND	0.20	ug/L							
Pyrene	ND	0.20	ug/L							
Surrogate: 1,2-Dichlorobenzene-d4	1.82		ug/L	2.50		73	30-130			
Surrogate: 2-Fluorobiphenyl	2.05		ug/L	2.50		82	30-130			
Surrogate: Nitrobenzene-d5	2.01		ug/L	2.50		80	30-130			
Surrogate: p-Terphenyl-d14	2.36		ug/L	2.50		94	30-130			

##### LCS

2-Methylnaphthalene	1.65	0.20	ug/L	2.50		66	40-140			
Acenaphthene	1.68	0.20	ug/L	2.50		67	40-140			
Acenaphthylene	1.59	0.20	ug/L	2.50		64	40-140			
Anthracene	1.73	0.20	ug/L	2.50		69	40-140			
Benzo(a)anthracene	1.91	0.20	ug/L	2.50		76	40-140			
Benzo(a)pyrene	1.58	0.20	ug/L	2.50		63	40-140			
Benzo(b)fluoranthene	1.60	0.20	ug/L	2.50		64	40-140			
Benzo(g,h,i)perylene	1.78	0.20	ug/L	2.50		71	40-140			
Benzo(k)fluoranthene	1.98	0.30	ug/L	2.50		79	40-140			
Chrysene	1.97	0.20	ug/L	2.50		79	40-140			
Dibenzo(a,h)Anthracene	1.84	0.20	ug/L	2.50		74	40-140			
Fluoranthene	1.67	0.20	ug/L	2.50		67	40-140			
Fluorene	1.83	0.20	ug/L	2.50		73	40-140			
Indeno(1,2,3-cd)Pyrene	1.80	0.30	ug/L	2.50		72	40-140			
Naphthalene	1.61	0.20	ug/L	2.50		64	40-140			
Phenanthrene	1.91	0.20	ug/L	2.50		76	40-140			
Pyrene	1.92	0.20	ug/L	2.50		77	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	1.72		ug/L	2.50		69	30-130			
Surrogate: 2-Fluorobiphenyl	1.92		ug/L	2.50		77	30-130			
Surrogate: Nitrobenzene-d5	1.80		ug/L	2.50		72	30-130			
Surrogate: p-Terphenyl-d14	2.07		ug/L	2.50		83	30-130			

##### LCS Dup

2-Methylnaphthalene	1.66	0.20	ug/L	2.50		66	40-140	0	20	
Acenaphthene	1.75	0.20	ug/L	2.50		70	40-140	4	20	
Acenaphthylene	1.63	0.20	ug/L	2.50		65	40-140	2	20	
Anthracene	1.78	0.20	ug/L	2.50		71	40-140	3	20	
Benzo(a)anthracene	1.84	0.20	ug/L	2.50		74	40-140	3	20	
Benzo(a)pyrene	2.41	0.20	ug/L	2.50		96	40-140	42	20	+
Benzo(b)fluoranthene	1.10	0.20	ug/L	2.50		44	40-140	37	20	+
Benzo(g,h,i)perylene	1.57	0.20	ug/L	2.50		63	40-140	12	20	
Benzo(k)fluoranthene	1.10	0.30	ug/L	720 2.50		44	40-140	57	20	+



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>8270C(SIM) Polynuclear Aromatic Hydrocarbons</b>										
<b>Batch BF62310 - 3510C</b>										
Chrysene	2.01	0.20	ug/L	2.50		80	40-140	1	20	
Dibenzo(a,h)Anthracene	1.53	0.20	ug/L	2.50		61	40-140	19	20	
Fluoranthene	1.82	0.20	ug/L	2.50		73	40-140	9	20	
Fluorene	1.83	0.20	ug/L	2.50		73	40-140	0	20	
Indeno(1,2,3-cd)Pyrene	1.55	0.30	ug/L	2.50		62	40-140	15	20	
Naphthalene	1.66	0.20	ug/L	2.50		66	40-140	3	20	
Phenanthrene	1.79	0.20	ug/L	2.50		72	40-140	5	20	
Pyrene	1.82	0.20	ug/L	2.50		73	40-140	5	20	
Surrogate: 1,2-Dichlorobenzene-d4	1.75		ug/L	2.50		70	30-130			
Surrogate: 2-Fluorobiphenyl	1.96		ug/L	2.50		78	30-130			
Surrogate: Nitrobenzene-d5	1.83		ug/L	2.50		73	30-130			
Surrogate: p-Terphenyl-d14	1.99		ug/L	2.50		80	30-130			

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# Semi-Volatile Organics Calibration Data

# ESS LABORATORY GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/27/06	22	SV2 133 02	0606295-06	SV2KG	RR 5x 25 Folded	JS
	23	SV2 53	↓ -07	↓	RR 10x	↓
6/27/06	1	SV2 97	BPF0216-TUN1 ✓	DETPP		JS
	2	SV2 98	BPF0216-CW1 ✓	SV2KG		JS
	3	SV2 99	0606310-06 ✓			
	4	SV2 133 00	BPF62326-BEM1 ✓			
	5	SV2 134 00	BPF62326-BE1 ✓			
	6	SV2 01	BPF62326-BSD1 ✓			
	7	SV2 02	0606295-01 ✓			
	8	SV2 03	↓ -02 ✓			
	9	SV2 04	↓ -04 ✓			
	10	SV2 05	↓ -05 ✓			
	11	SV2 06	↓ -06 ✓			
	12	SV2 07	0606295-07 ✓			
	13	SV2 08	0606310-07 ✓			
	14	SV2 09	BPF62326-MS1 ✓			
	15	SV2 10	BPF62622-BW1 ✓			
	16	SV2 11	BPF62622-BE1 ✓			
	17	SV2 12	BPF62622-BSD1 ✓			
	18	SV2 13	BPF62328-BW1 ✓			
	19	SV2 14	BPF62328-BE1 ✓			
	20	SV2 15	BPF62328-BSD1 ✓			
	21	SV2 16	0606320-02 ✓			JS
6/27/06	22	SV2 17	0606323-02 ✓	SV2KG		JS
6/28/06	1	SV2 19 18	BPF0229-TUN1 ✓	DETPP		JS
	2	SV2 20	↓ -CW1	PAH 2DX		JS
	3	SV2 21	↓ -CAL1	PAH 2DY		JS
	4	SV2 22	↓ -CAL2	PAH 2DY		JS
6/28/06	5	SV2 23	BPF0229-CAL3 ✓	PAH 2DY		JS

Control Number 60.0019-0601A

JS 6/28/06

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**ESS LABORATORY  
GCMS2 RUN LOG**

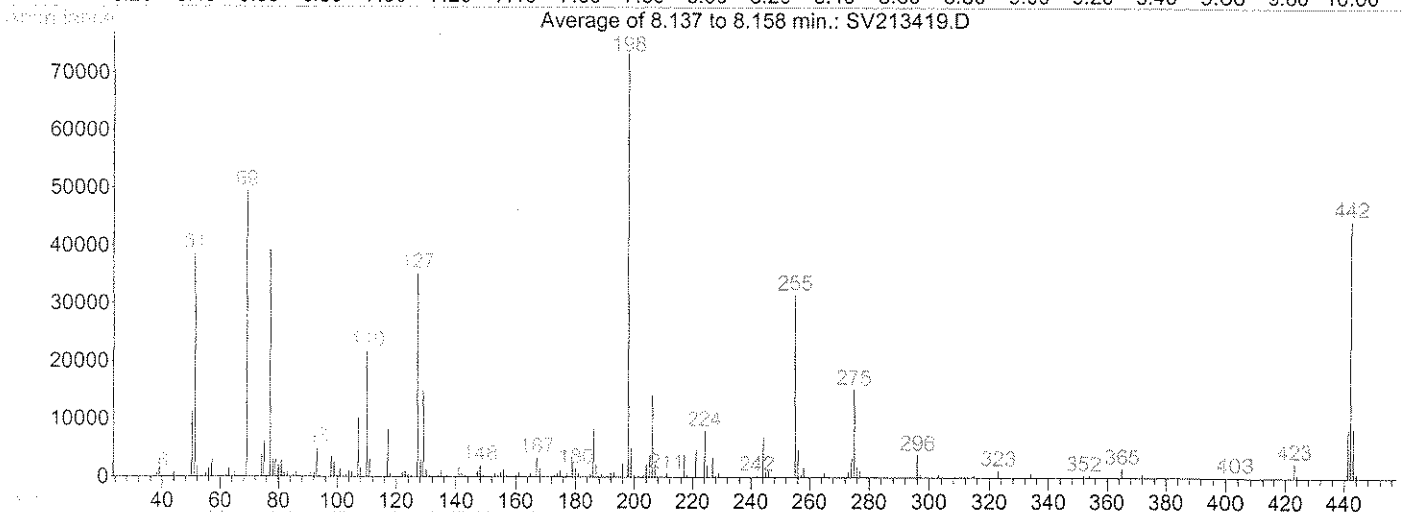
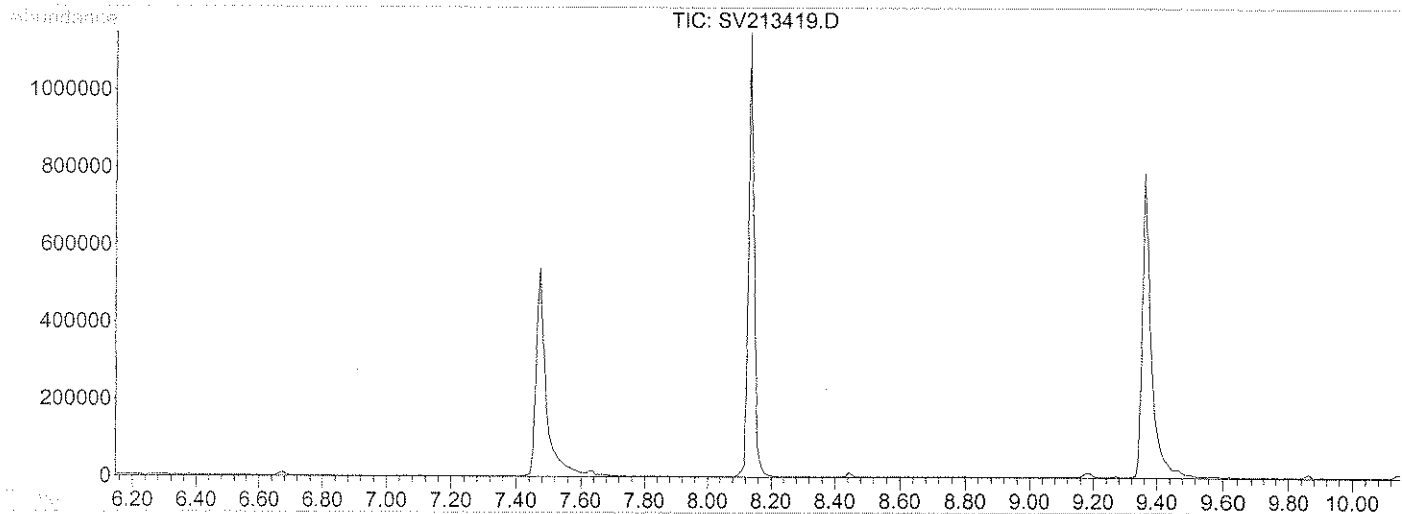
COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/28/06	6	SV2 13424	BPF0229 - cal4	PAH20Y		JCS
	7	SV2 25	- cal5			
	8	SV2 26	- cal6			
	9	SV2 27	- cal7			
6/28/06	10	SV2 28	BPF0229 - scv1	PAH20Y		JCS
	11	SV2 29	BPF023-BW1	PAH20Y		
	12	SV2 30	0606356-01			
	13	SV2 31	BF62133-BW1			
	14	SV2 32	BF62133-B51			
	15	SV2 33	BF62133-B5D1			
	16	SV2 34	0606321-01			
	17	SV2 35	0606321-02		RR 100x 10x	
	18	SV2 36	0606321-03		RR 20x	
	19	SV2 37	0606321-04		RR 10x	
	20	SV2 38	BF62310-BW1			
	21	SV2 39	BF62310-B51			
	22	SV2 40	BF62310-B5D1			
	23	SV2 41	0606341-01			
	24	SV2 42	0606341-02			
	25	SV2 43	0606341-03	PAH20Y		
6/28/06	1	SV2 38	BPF0236-TW1	DFTAP		WJ
	2	SV2 39	BPF0236-CCV1	PAH20Y	N6	
	3	SV2 4140	BPF0236-CCV1	PAH20Y		
	4	SV2 4241	BF62310-BW1			
	5	SV2 4342	BF62310-B51			
	6	SV2 4443	BF62310-B5D1			
	7	SV2 4544	0606341-01			
	8	SV2 4645	0606341-02			
6/28/06	9	SV2 4746	0606341-03	PAH20Y	RSX	WJ

Control Number 60.0019-0601A

Page \_\_\_\_\_

Data File : Q:\SVOA\MS2\_ME\ME0606\ME062806\SV213419.D Vial: 1  
 Acq On : 28 Jun 2006 6:27 am Operator: JLS  
 Sample : BPF0229-TUN1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Method : C:\HPCHEM\1\METHODS\PAH2EB.M (RTE Integrator)  
 Title : LL PAH ELEMENT ID 0607020



Spectrum Information: Average of 8.137 to 8.158 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	52.4	38508	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	67.3	49493	PASS
70	69	0.00	2	0.3	169	PASS
127	198	40	60	47.9	35209	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	73510	PASS
199	198	5	9	6.8	4985	PASS
275	198	10	30	20.7	15217	PASS
365	198	1	100	2.1	1553	PASS
441	443	0.01	100	98.1	8407	PASS
442	198	40	100	60.7	44588	PASS
443	442	17	23	19.2	8568	PASS

Response Factor Report GC/MS 2

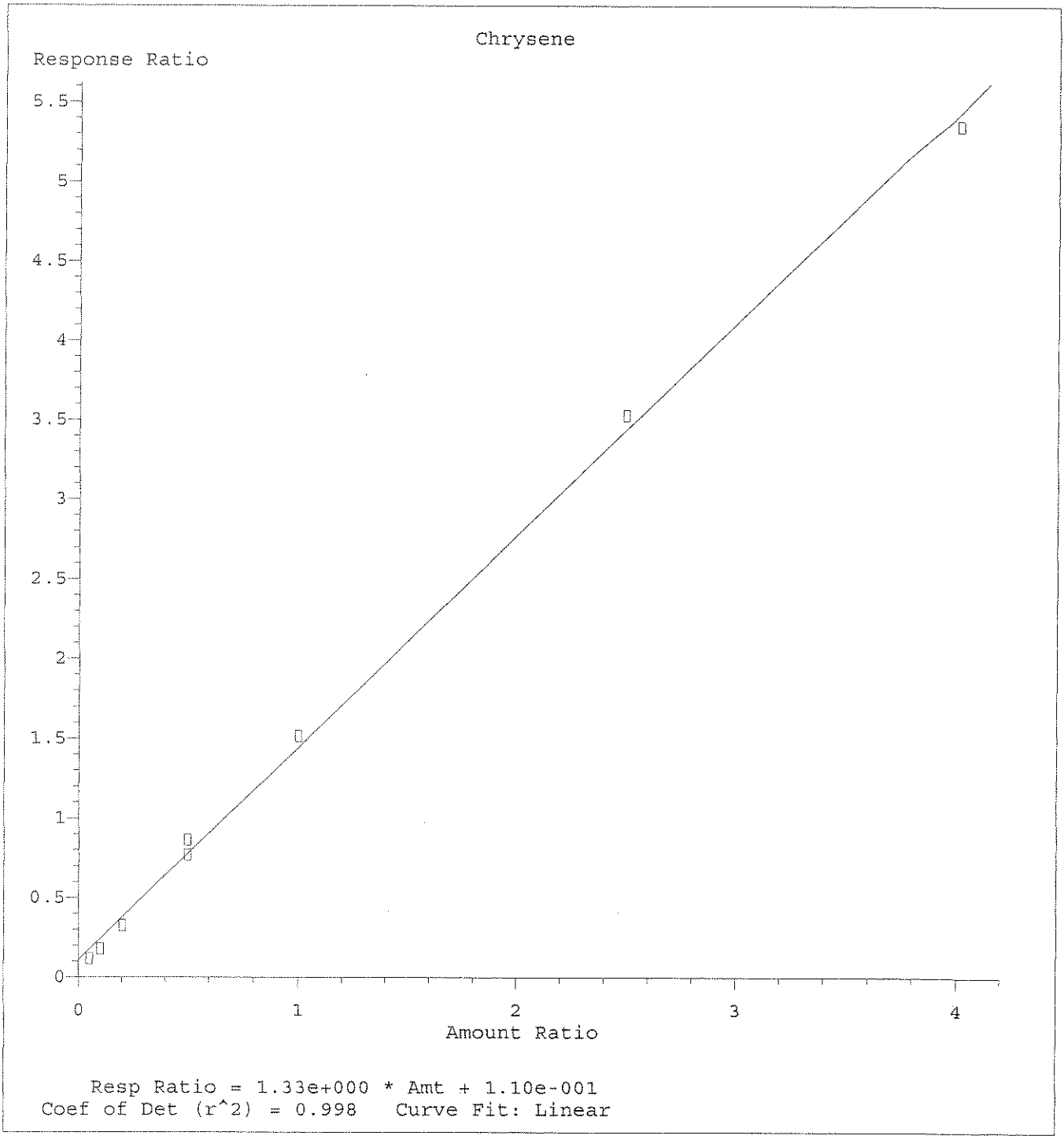
Method : C:\HPCHEM\1\METHODS\PAH2DY.M (RTE Integrator)  
 Title : LL PAH ELEMENT ID 0606036  
 Last Update : Thu Jun 29 11:19:29 2006  
 Response via : Initial Calibration

Calibration Files

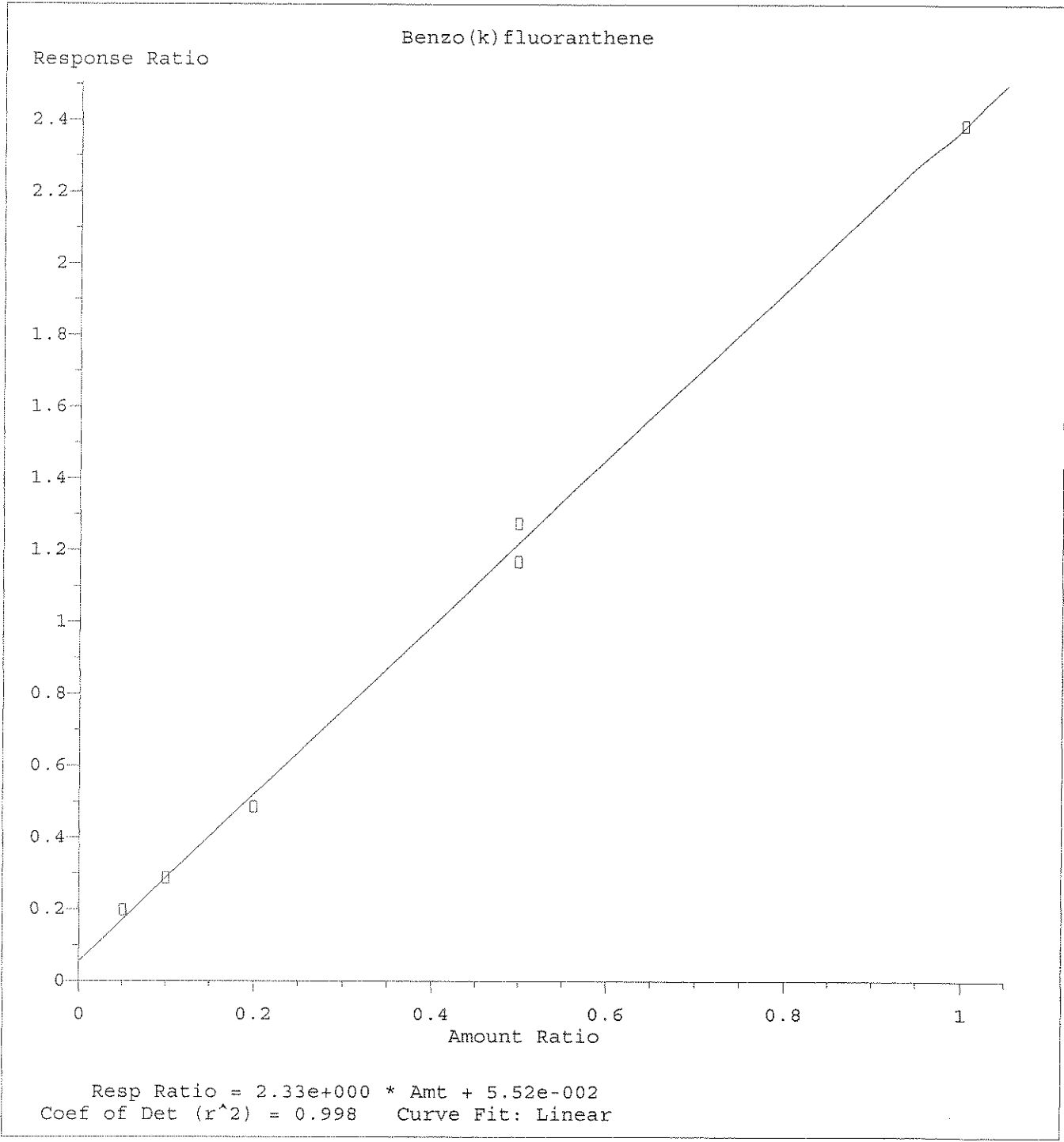
0.2 =SV213422.D 0.4 =SV213423.D 1.0 =SV213424.D  
 2.0 =SV213425.D 5.0 =SV213426.D 8.0 =SV213427.D

Compound	0.2	0.4	1.0	2.0	5.0	8.0	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	-----ISTD-----							
2) S 1,2 Dichlorobenzene	0.945	0.935	0.996	0.832	0.829	0.793	0.936	15.69
3) Naphthalene-d8	-----ISTD-----							
4) S Nitrobenzene-d5 (SU	0.382	0.386	0.406	0.390	0.379	0.378	0.395	6.35
5) Naphthalene	1.138	1.021	1.040	0.974	0.987	0.952	1.067	13.30
6) 2-Methylnaphthalene	0.619	0.598	0.650	0.585	0.609	0.578	0.631	10.74
7) 1-Methylnaphthalene	0.668	0.641	0.678	0.602	0.615	0.573	0.656	12.22
8) Acenaphthene-d10	-----ISTD-----							
9) S 2-Fluorobiphenyl (S	1.382	1.279	1.399	1.233	1.273	1.226	1.309	5.61
10) Acenaphthylene	1.976	1.777	2.006	1.798	1.887	1.840	1.929	8.02
11) C Acenaphthene	1.234	1.153	1.270	1.125	1.163	1.129	1.214	8.84#
12) Fluorene	1.187	1.077	1.202	1.101	1.142	1.122	1.166	7.29
13) Phenanthrene-d10	-----ISTD-----							
14) S 2,4,6-Tribromopheno	0.152	0.113	0.093	0.088	0.088	0.091	0.121	<del>41.09</del> N/A
15) C Pentachlorophenol	0.023	0.027	0.041	0.044	0.060	0.069	0.046#	<del>36.81#</del> N/A
16) Phenanthrene	1.021	0.960	1.049	0.952	1.013	0.989	1.023	7.51
17) Anthracene	1.290	1.187	1.258	1.138	1.139	1.126	1.232	10.44
18) C Fluoranthene	0.878	0.848	0.847	0.801	0.794	0.849	0.863	8.87#
19) Chrysene-d12	-----ISTD-----							
20) Pyrene	1.784	1.579	1.662	1.482	1.497	1.465	1.651	13.64
21) S Terphenyl-d14 (SURR	0.898	0.784	0.835	0.737	0.741	0.699	0.816	13.63
22) Benzo(a)anthracene	1.232	1.136	1.231	1.111	1.186	1.169	1.212	8.41
23) Chrysene	1.803	1.631	1.729	1.516	1.413	1.338	1.690	20.92 C
24) Perylene-d12	-----ISTD-----							
25) Benzo(b)fluoranthen	1.806	1.136	1.264	1.311	1.692		1.487	18.98
26) Benzo(k)fluoranthen	2.878	2.431	2.337	2.387			2.801	24.64 C
27) C Benzo(a)pyrene	1.559	1.173	1.513	1.407	1.838	1.630	1.707	31.37# C
28) Indeno(1,2,3-cd)pyr	0.934	0.789	0.750	0.759	0.871		1.066	56.72 C
29) Dibenzo(a,h)anthrac	0.681	0.568	0.585	0.590	0.674		0.798	55.06 C
30) Benzo(g,h,i)perylen	0.962	0.690	0.622	0.621	0.615	0.713	0.923	64.21 C

C = linear



Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M  
Calibration Table Last Updated: Thu Jun 29 11:19:29 2006

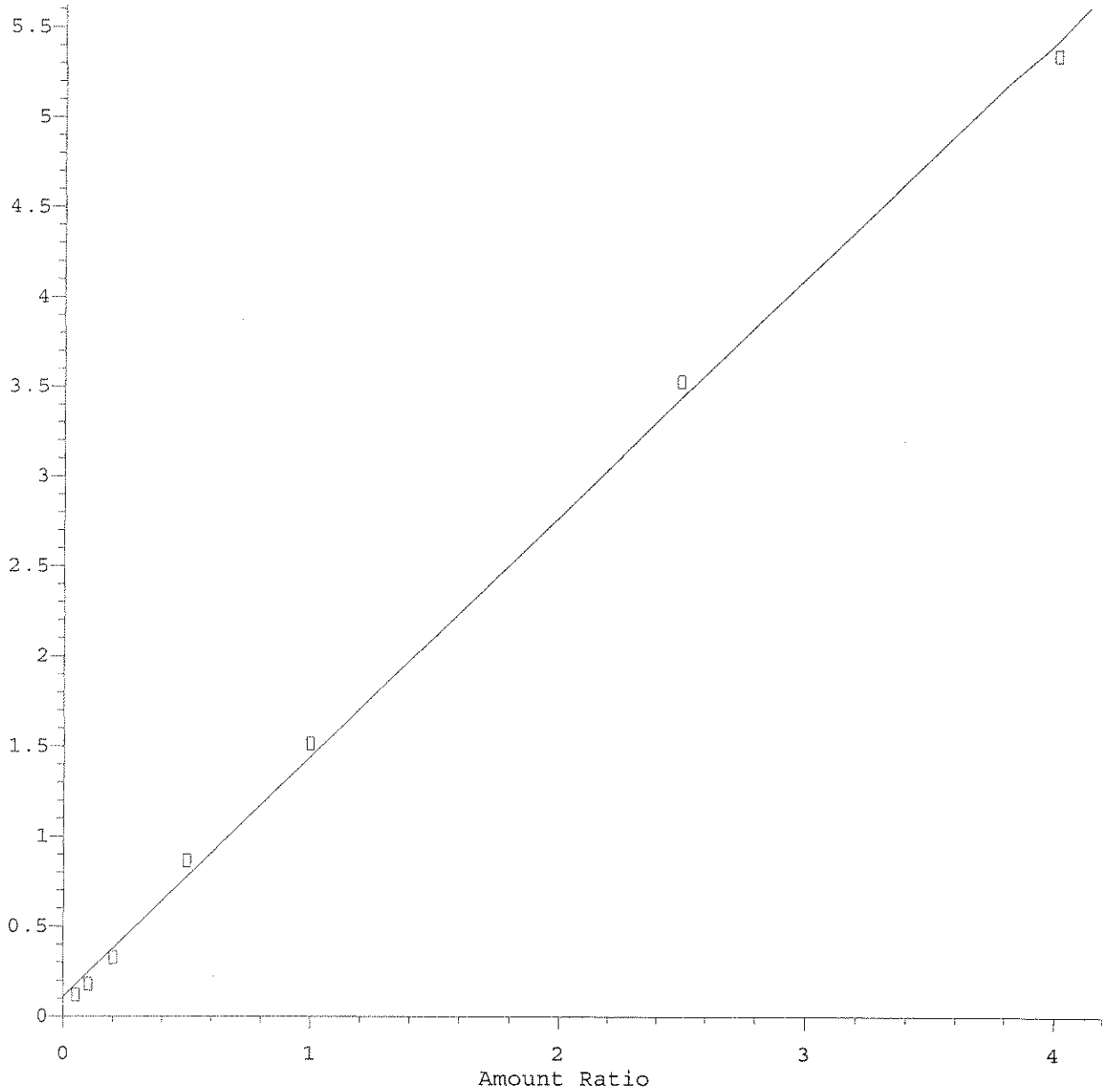


Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M  
Calibration Table Last Updated: Thu Jun 29 11:19:29 2006



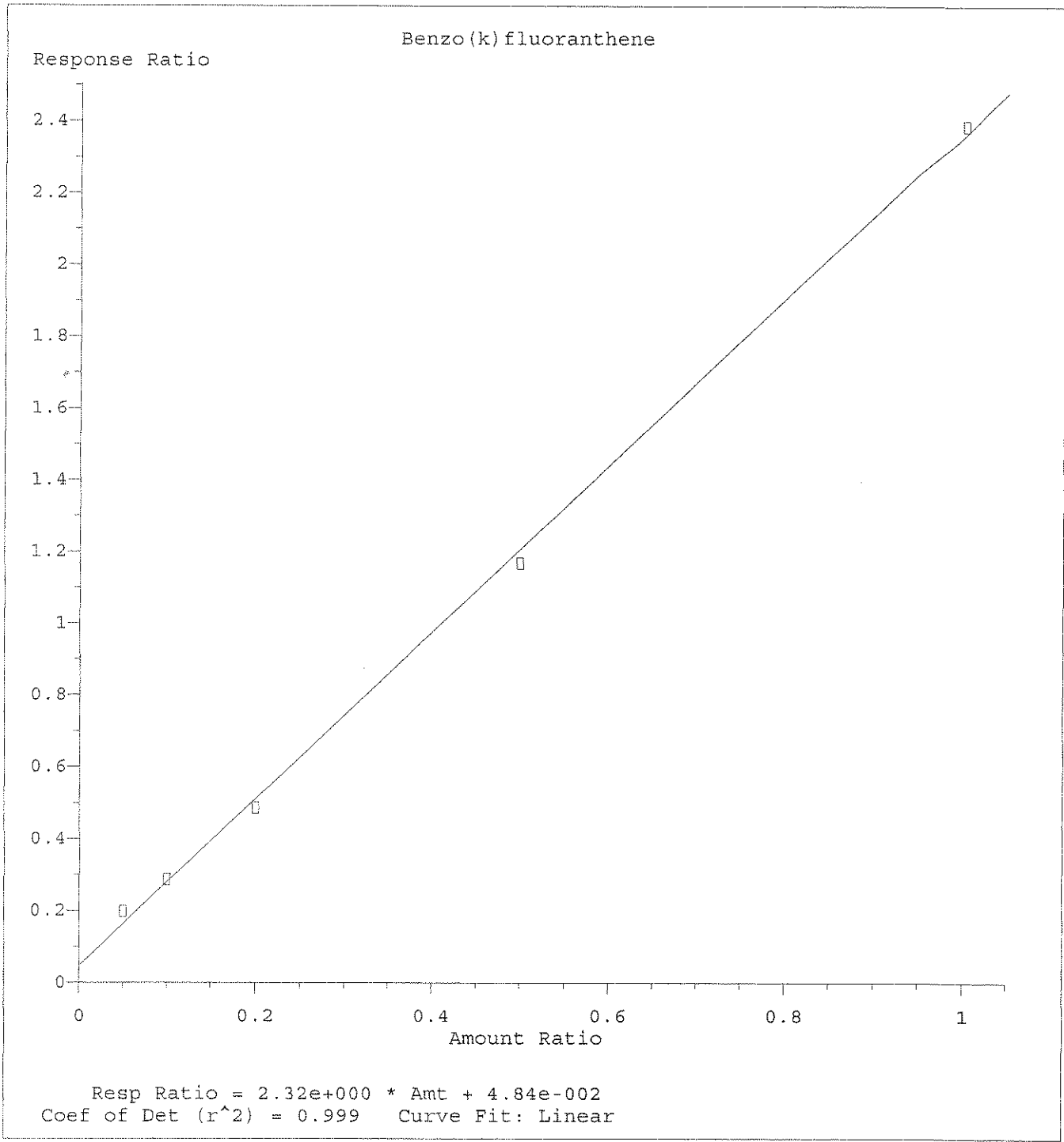
Chrysene

Response Ratio

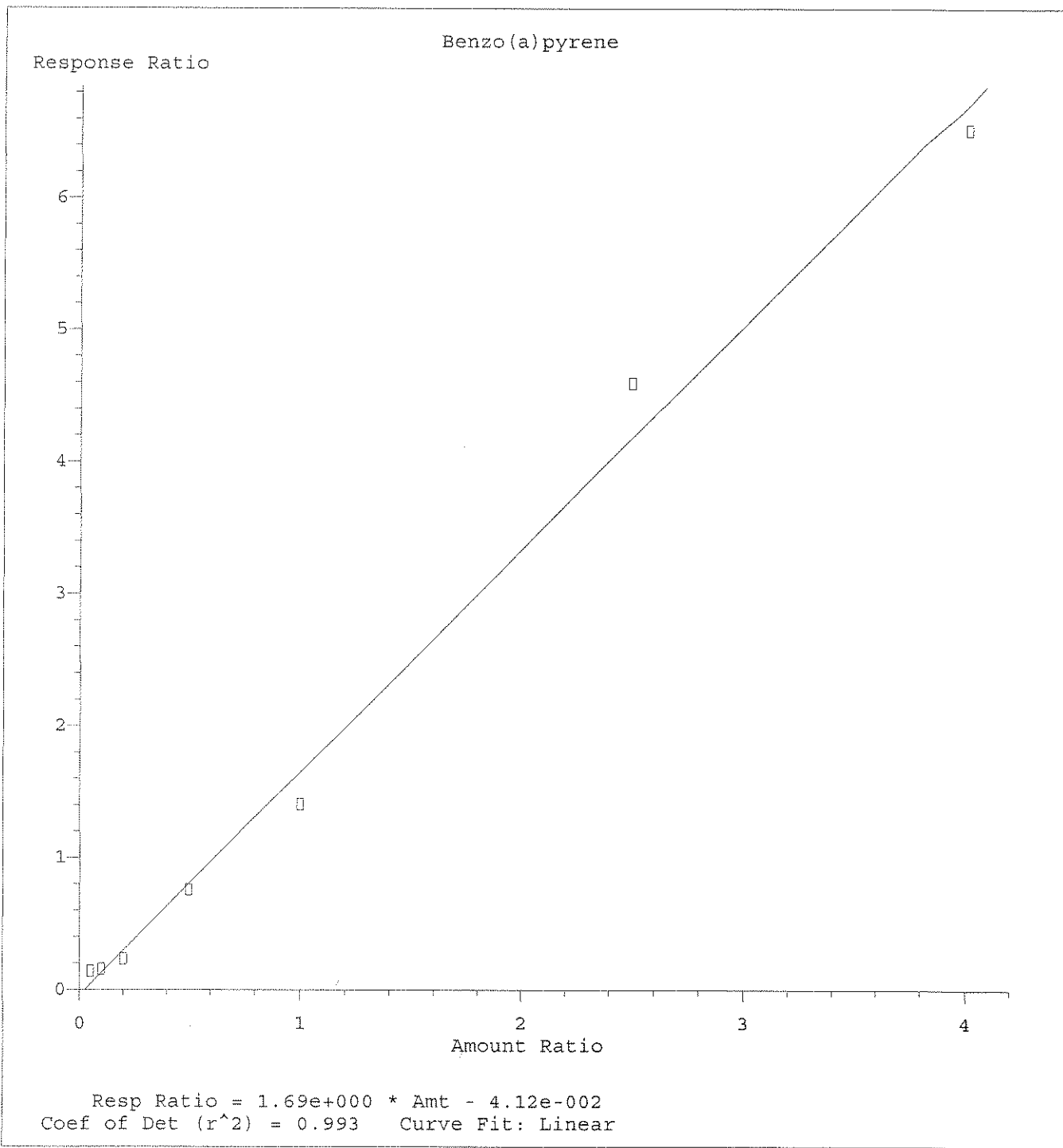


Resp Ratio = 1.33e+000 \* Amt + 1.11e-001  
Coef of Det (r^2) = 0.998 Curve Fit: Linear

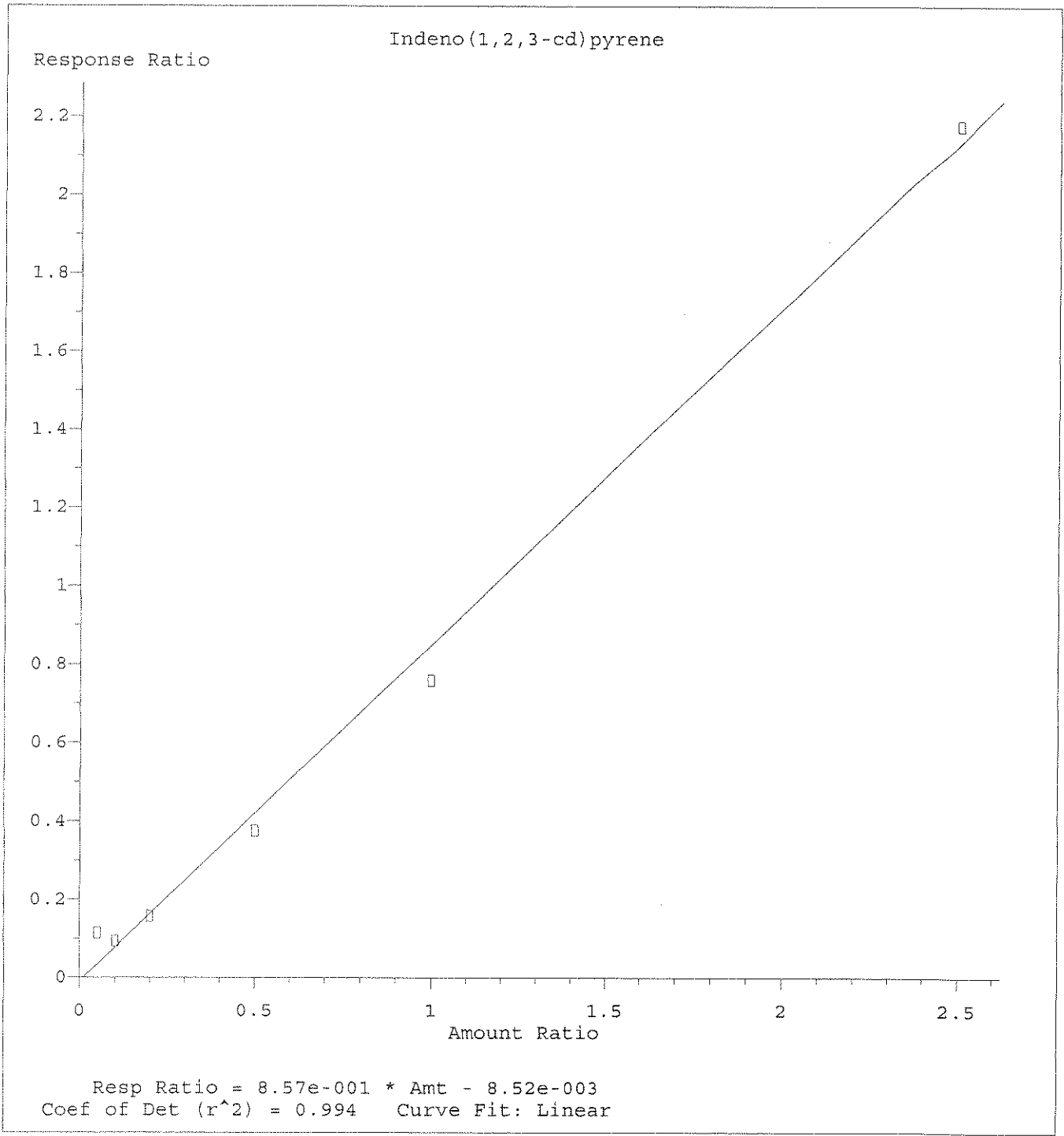
Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M  
Calibration Table Last Updated: Thu Jul 20 15:42:56 2006



Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M  
Calibration Table Last Updated: Thu Jul 20 15:42:56 2006



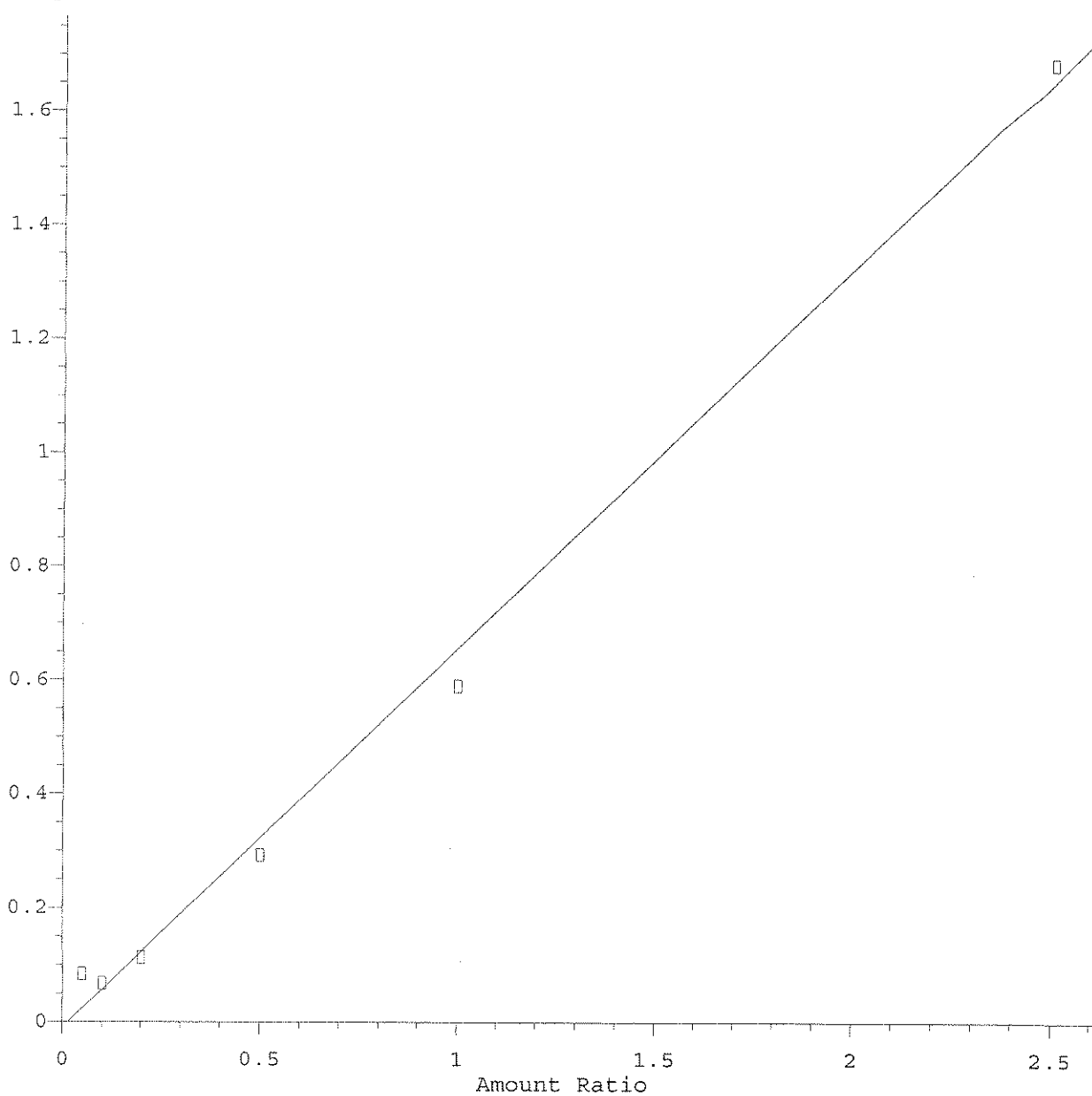
Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M  
Calibration Table Last Updated: Thu Jul 20 15:42:56 2006



Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M  
Calibration Table Last Updated: Thu Jul 20 15:42:56 2006

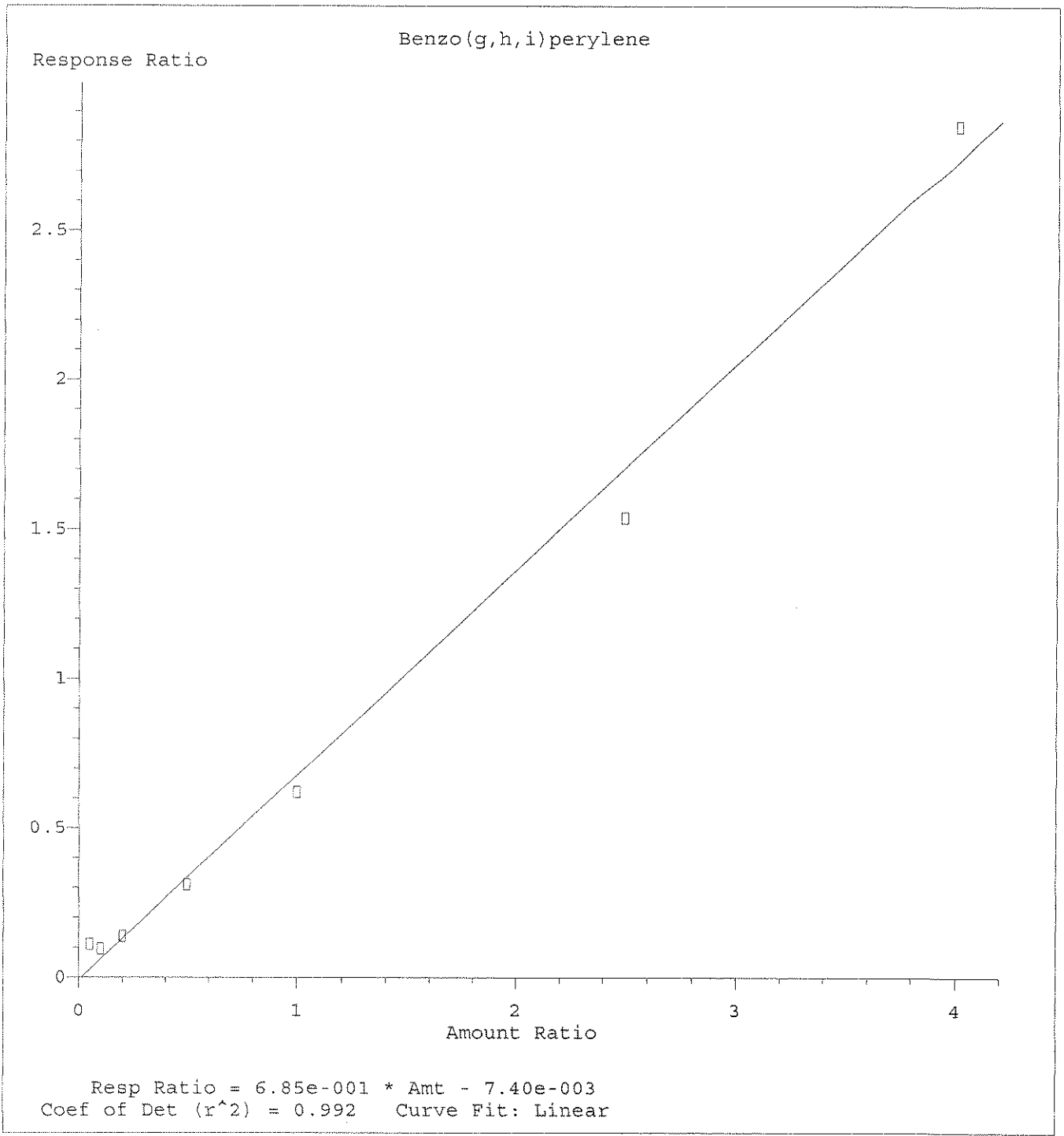
Dibenzo(a,h)anthracene

Response Ratio



Resp Ratio = 6.66e-001 \* Amt - 1.02e-002  
Coef of Det (r<sup>2</sup>) = 0.995 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M  
Calibration Table Last Updated: Thu Jul 20 15:42:56 2006



Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M  
Calibration Table Last Updated: Thu Jul 20 15:42:56 2006

## ANALYSIS SEQUENCE

BPF0236

Instrument: SVOAMS2

Calibration ID: UNASSIGNED PAH204

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0236-TUN1	QC		1		6F26111		
BPF0236-CCV1	QC		2		6F28045	6F13054	
BF62310-BLK1	QC		3			6F13054	
BF62310-BS1	QC		4			6F13054	
BF62310-BSD1	QC		5			6F13054	
0606341-01	SVOC: 8270 ppm PAH SIM	G	6			6F13054	Vanasse Hangen Brustlin, Inc.
0606341-02	SVOC: 8270 ppm PAH SIM	G	7			6F13054	Vanasse Hangen Brustlin, Inc.
0606341-03	SVOC: 8270 ppm PAH SIM	G	8			6F13054	Vanasse Hangen Brustlin, Inc.
0606371-01	SVOC: 8270 ppm PAH SIM	I	9			6F13054	Vanasse Hangen Brustlin, Inc.
0606346-01	SVOC: 8270 ppb PAH SIM	G	10			6F13054	MACTEC Engineering & Consulting, Inc.
0606346-02	SVOC: 8270 ppb PAH SIM	O	11			6F13054	MACTEC Engineering & Consulting, Inc.
0606346-03	SVOC: 8270 ppb PAH SIM	O	12			6F13054	MACTEC Engineering & Consulting, Inc.
0606346-05	SVOC: 8270 ppb PAH SIM	G	13			6F13054	MACTEC Engineering & Consulting, Inc.
0606346-06	SVOC: 8270 ppb PAH SIM	G	14			6F13054	MACTEC Engineering & Consulting, Inc.
0606346-07	SVOC: 8270 ppb PAH SIM	G	15			6F13054	MACTEC Engineering & Consulting, Inc.
0606346-08	SVOC: 8270 ppb PAH SIM	G	16			6F13054	MACTEC Engineering & Consulting, Inc.
0606346-09	SVOC: 8270 ppb PAH SIM	G	17			6F13054	MACTEC Engineering & Consulting, Inc.

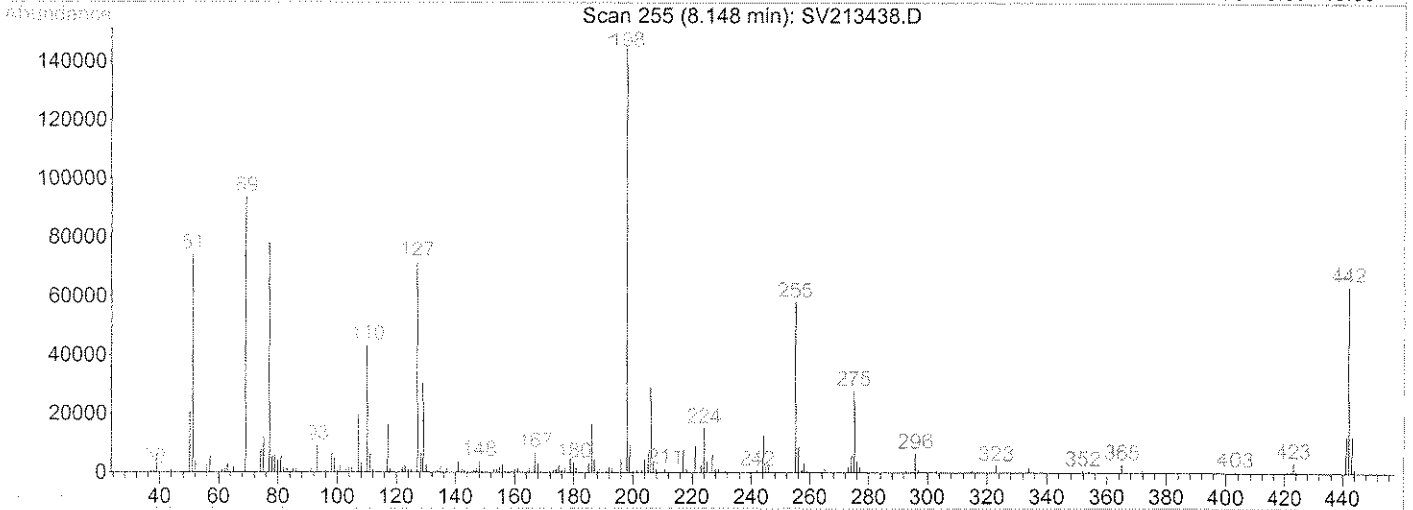
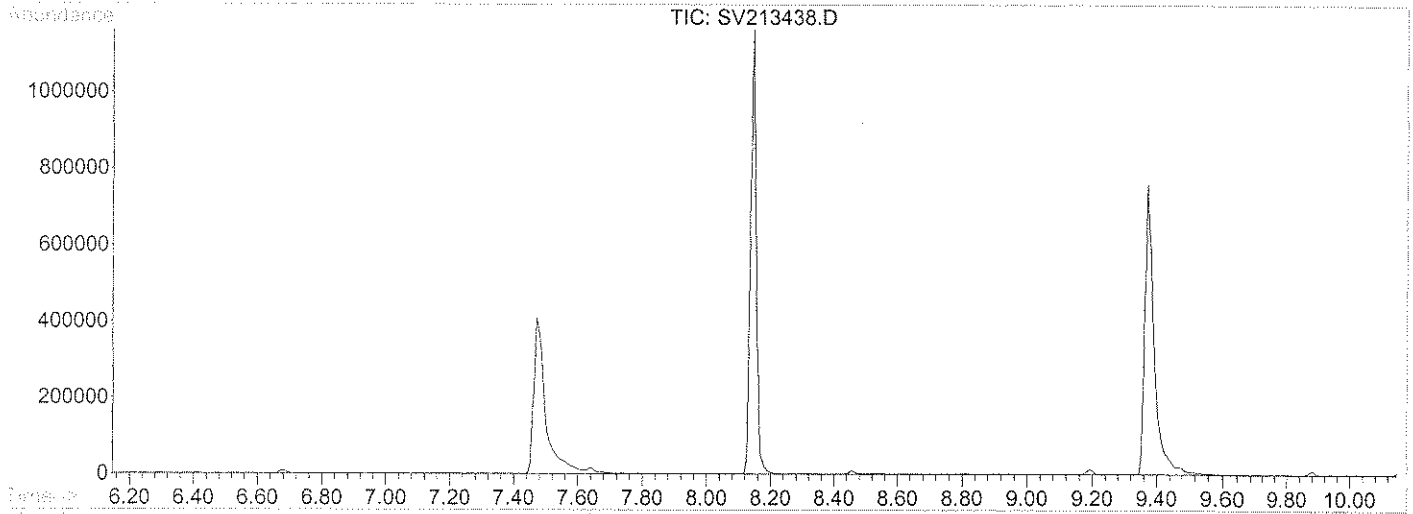
Samples Loaded By

Date

Data Processed By

Date

Data File : Q:\SVOA\MS2\_ME\ME0606\ME062806\SV213438.D Vial: 1  
 Acq On : 28 Jun 2006 5:21 pm Operator: VSC  
 Sample : BPF0236-TUN1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Method : C:\HPCHEM\1\METHODS\PAH2EC.M (RTE Integrator)  
 Title : LL PAH ELEMENT ID 0607033



Spectrum Information: Scan 255

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	51.1	73896	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	64.8	93640	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	49.6	71672	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	144576	PASS
199	198	5	9	6.6	9551	PASS
275	198	10	30	19.3	27848	PASS
365	198	1	100	2.0	2824	PASS
441	443	0.01	100	99.4	12281	PASS
442	198	40	100	44.0	63560	PASS
443	442	17	23	19.4	12349	PASS



Data File : Q:\SVOA\MS2\_ME\ME0606\ME062806\SV213441.D Vial: 3  
 Acq On : 28 Jun 2006 6:11 pm Operator: VSC  
 Sample : BPF0236-CCV1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jun 29 11:18 2006

Quant Results File: PAH2DY.RES

Quant Method : C:\HPCHEM\1\METHODS\PAH2DY.M (RTE Integrator)

Title : LL PAH ELEMENT ID 0606036

Last Update : Wed Jun 28 12:00:01 2006

Response via : Initial Calibration

DataAcq Meth : PAH2DY

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.67	152	25321	2.00	ng/uL	0.00
3) Naphthalene-d8	5.04	136	79171	2.00	ng/uL	0.00
8) Acenaphthene-d10	7.72	164	37544	2.00	ng/uL	0.00
13) Phenanthrene-d10	10.55	188	45733	2.00	ng/uL	0.00
19) Chrysene-d12	16.16	240	24612	2.00	ng/uL	0.00
24) Perylene-d12	19.01	264	10071	2.00	ng/uL	0.01

## System Monitoring Compounds

2) 1,2 Dichlorobenzene-d4 (SUR)	3.86	152	12429	1.05	ng/uL	0.00
Spiked Amount	2.500					
Recovery				=	42.00%	
4) Nitrobenzene-d5 (SURR)	4.25	82	16395	1.05	ng/uL	-0.01
Spiked Amount	2.500					
Recovery				=	42.00%	
9) 2-Fluorobiphenyl (SURR)	6.58	172	26095	1.06	ng/uL	0.00
Spiked Amount	2.500					
Recovery				=	42.40%	
14) 2,4,6-Tribromophenol (SURR)	9.22	330	1770	0.79	ng/uL	0.00
Spiked Amount	3.750					
Recovery				=	21.07%	
21) Terphenyl-d14 (SURR)	13.97	244	10387	1.03	ng/uL	0.00
Spiked Amount	2.500					
Recovery				=	41.20%	

## Target Compounds

						Qvalue
5) Naphthalene	5.07	128	41133	0.97	ng/uL#	96
6) 2-Methylnaphthalene	5.99	142	23724	0.95	ng/uL	96
7) 1-Methylnaphthalene	6.15	142	25128	0.97	ng/uL	95
10) Acenaphthylene	7.44	152	37892	1.05	ng/uL#	100
11) Acenaphthene	7.77	153	24056	1.06	ng/uL	99
12) Fluorene	8.70	166	23246	1.06	ng/uL	99
15) Pentachlorophenol	10.33	266	976	0.93	ng/uL#	100
16) Phenanthrene	10.60	178	23707	1.01	ng/uL#	99
17) Anthracene	10.69	178	29493	1.05	ng/uL#	96
18) Fluoranthene	13.09	202	20296	1.03	ng/uL	100
20) Pyrene	13.55	202	21459	1.06	ng/uL	95
22) Benzo(a)anthracene	16.13	228	15036	1.01	ng/uL	99
23) Chrysene	16.22	228	21948	1.17	ng/uL	94
25) Benzo(b)fluoranthene	18.32	252	9148m	1.22	ng/uL	
26) Benzo(k)fluoranthene	18.35	252	14918m	1.24	ng/uL	
27) Benzo(a)pyrene	18.91	252	7456	0.93	ng/uL	92
28) Indeno(1,2,3-cd)pyrene	21.00	276	3816	0.90	ng/uL#	99
29) Dibenzo(a,h)anthracene	21.02	278	2878	0.89	ng/uL#	94
30) Benzo(g,h,i)perylene	21.52	276	3198	0.95	ng/uL#	99

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

SV213441.D PAH2EC.M

Thu Jul 20 17:28:51 2006

## ANALYSIS SEQUENCE

BPF0242

Instrument: SVOAMS2

Calibration ID: UNASSIGNED *MM20Y*

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0242-TUN1	QC		1		6F26111		
BPF0242-CCV1	QC		2		6F28045	6F13054	
0606346-10	SVOC: 8270 ppb PAH SIM	G	3			6F13054	MACTEC Engineering & Consulting, Inc
0606346-11	SVOC: 8270 ppb PAH SIM	G	4			6F13054	MACTEC Engineering & Consulting, Inc
0606346-13	SVOC: 8270 ppb PAH SIM	G	5			6F13054	MACTEC Engineering & Consulting, Inc
0606346-14	SVOC: 8270 ppb PAH SIM	G	6			6F13054	MACTEC Engineering & Consulting, Inc
0606346-15	SVOC: 8270 ppb PAH SIM	G	7			6F13054	MACTEC Engineering & Consulting, Inc
0606372-01	SVOC: 8270 ppb PAH SIM	A	8			6F13054	MACTEC Engineering & Consulting, Inc
0606372-02	SVOC: 8270 ppb PAH SIM	A	9			6F13054	MACTEC Engineering & Consulting, Inc
0606372-03	SVOC: 8270 ppb PAH SIM	G	10			6F13054	MACTEC Engineering & Consulting, Inc
BF62839-BLK1	QC		11			6F13054	
BF62839-BS1	QC		12			6F13054	
BF62839-BSD1	QC		13			6F13054	
0606383-15	SVOC: 8270 ppb PAH SIM	A	14			6F13054	MACTEC Engineering & Consulting, Inc

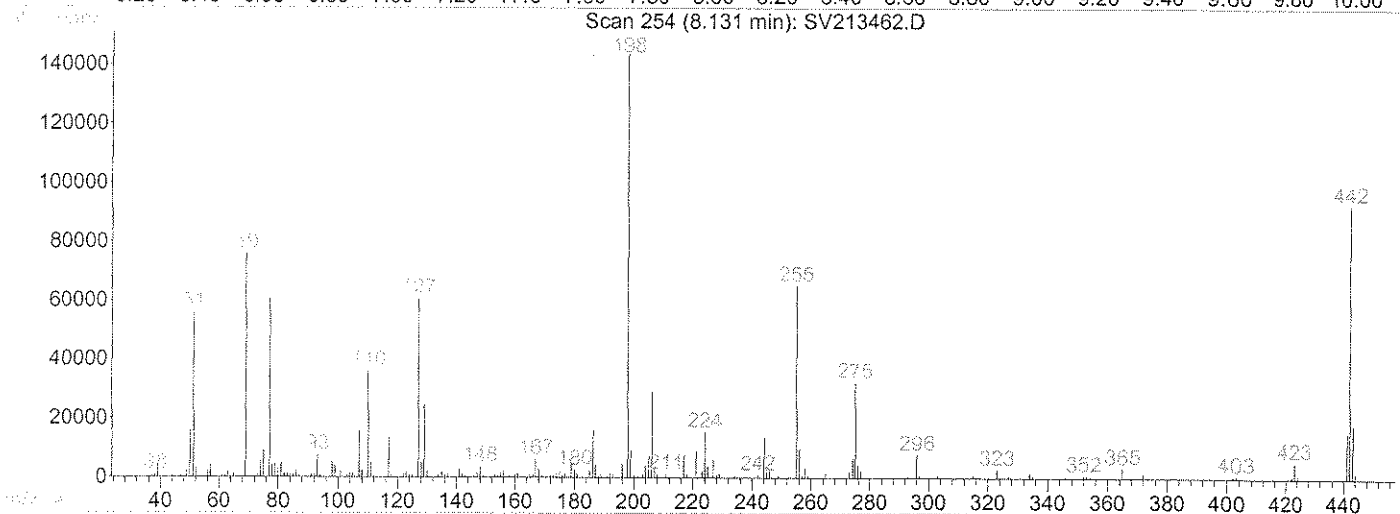
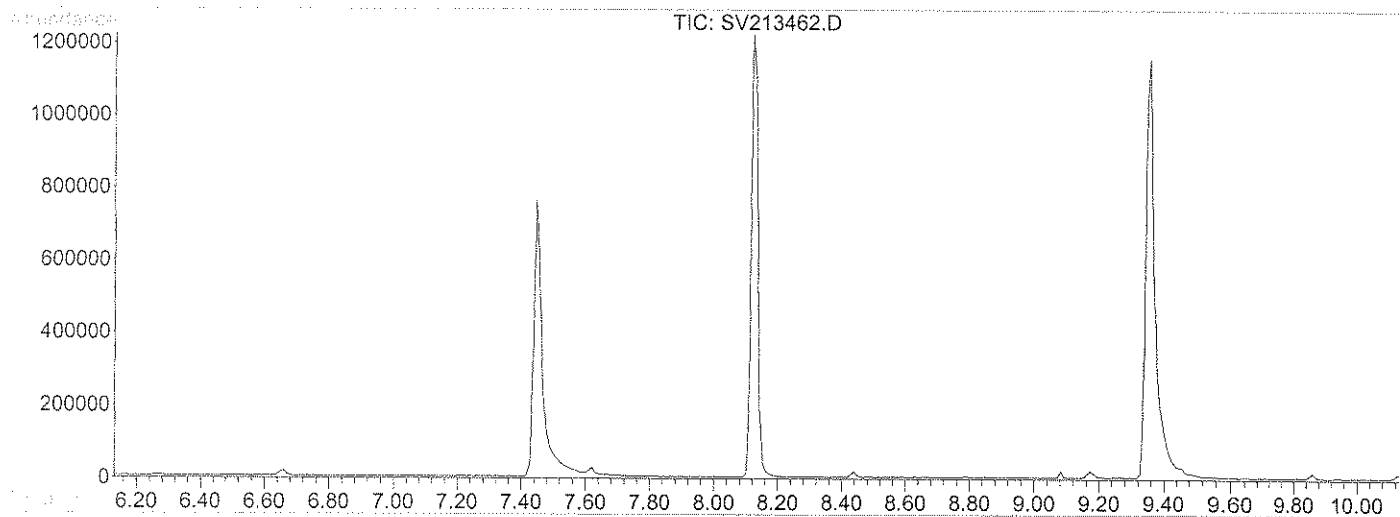
Samples Loaded By

Date

Data Prepared By

Date

Data File : Q:\SVOA\MS2\_ME\ME0606\ME062906\SV213462.D Vial: 1  
 Acq On : 29 Jun 2006 7:01 am Operator: JLS  
 Sample : BPF0242-TUN1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Method : C:\HPCHEM\1\METHODS\PAH2EB.M (RTE Integrator)  
 Title : LL PAH ELEMENT ID 0607020



Spectrum Information: Scan 254

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.8	55816	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.7	75664	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	42.1	60504	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	143680	PASS
199	198	5	9	6.4	9133	PASS
275	198	10	30	22.5	32320	PASS
365	198	1	100	2.4	3392	PASS
441	443	0.01	100	87.7	15733	PASS
442	198	40	100	64.6	92760	PASS
443	442	17	23	19.3	17936	PASS

Data File : Q:\SVOA\MS2\_ME\ME0606\ME062906\SV213464.D Vial: 2  
 Acq On : 29 Jun 2006 7:54 am Operator: JLS  
 Sample : BPF0242-CCV1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jun 29 8:34 2006

Quant Results File: PAH2DY.RES

Quant Method : C:\HPCHEM\1\METHODS\PAH2DY.M (RTE Integrator)

Title : LL PAH ELEMENT ID 0606036

Last Update : Wed Jun 28 12:00:01 2006

Response via : Initial Calibration

DataAcq Meth : PAH2DY

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.65	152	28124	2.00	ng/uL	-0.02
3) Naphthalene-d8	5.03	136	92326	2.00	ng/uL	-0.02
8) Acenaphthene-d10	7.70	164	44912	2.00	ng/uL	-0.02
13) Phenanthrene-d10	10.53	188	58750	2.00	ng/uL	-0.02
19) Chrysene-d12	16.14	240	27542	2.00	ng/uL	-0.02
24) Perylene-d12	18.98	264	10489	2.00	ng/uL	-0.01

System Monitoring Compounds

2) 1,2 Dichlorobenzene-d4 (SUR)	3.84	152	13873	1.05	ng/uL	-0.02
Spiked Amount	2.500			Recovery	=	42.00%
4) Nitrobenzene-d5 (SURR)	4.23	82	18653m	1.02	ng/uL	-0.02
Spiked Amount	2.500			Recovery	=	40.80%
9) 2-Fluorobiphenyl (SURR)	6.56	172	30786	1.05	ng/uL	-0.02
Spiked Amount	2.500			Recovery	=	42.00%
14) 2,4,6-Tribromophenol (SURR)	9.22	330	1080	0.33	ng/uL	0.00
Spiked Amount	3.750			Recovery	=	8.80%
21) Terphenyl-d14 (SURR)	13.94	244	12173	1.08	ng/uL	-0.02
Spiked Amount	2.500			Recovery	=	43.20%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
5) Naphthalene	5.05	128	48197	0.98	ng/uL#	96
6) 2-Methylnaphthalene	5.97	142	28470	0.98	ng/uL	100
7) 1-Methylnaphthalene	6.13	142	29994	0.99	ng/uL	92
10) Acenaphthylene	7.43	152	43650	1.01	ng/uL#	99
11) Acenaphthene	7.75	153	27793	1.02	ng/uL	99
12) Fluorene	8.69	166	27534	1.05	ng/uL	99
15) Pentachlorophenol	10.31	266	1160	0.88	ng/uL#	100
16) Phenanthrene	10.58	178	29480	0.98	ng/uL#	100
17) Anthracene	10.67	178	36670	1.01	ng/uL#	95
18) Fluoranthene	13.07	202	22537	0.89	ng/uL	99
20) Pyrene	13.53	202	23822	1.05	ng/uL	94
22) Benzo(a)anthracene	16.11	228	15464	0.93	ng/uL	99
23) Chrysene	16.19	228	24106	1.15	ng/uL	95
25) Benzo(b)fluoranthene	18.30	252	5634m	0.72	ng/uL	
26) Benzo(k)fluoranthene	18.33	252	14021m	1.11	ng/uL	
27) Benzo(a)pyrene	18.89	252	7430	0.89	ng/uL	91
28) Indeno(1,2,3-cd)pyrene	20.97	276	3794	0.86	ng/uL#	99
29) Dibenzo(a,h)anthracene	20.99	278	2864	0.85	ng/uL#	99
30) Benzo(g,h,i)perylene	21.53	276	3448m	0.98	ng/uL	

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

# Semi-Volatile Organics Logbooks

# ESS Organic Preparation Logbook

Project #: 0606371  
 Prep Date: 06/23/06  
 Batch ID: U606371-01  
 Extraction Method: 3510

Surrogate ID# NA Matrix Spike ID# NA Analytical Matrix: Ag  
 A 06/23/06 D 06/23/06 Extraction Time: Start 0600  
 B NA E NA Finish: NA  
 C NA F NA

ESS ID	Vol (mL) Wt (g)	Surrogate (ul or (mL))	Matrix Spike (ul or (mL))	Extract Vol (mL) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Vol #1 (mL) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Vol #2 (mL) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Date	Bath Temp (C)	pH	Discard bottle #	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
U606371-01	1000	1	NA	1	1	NA	06/23/06	40	7.2			EM	EM	JLS
-01	1000	1	0.01	1	1				7.2					
-02	1000	1	0.01	1	1				7.2					
D606371-01	970	1	NA	1	1				7.2					
-02	980	1		1	1				7.2					
-03	970	1		1	1				7.2					
D606371-01	990	1		1	1				7.2					
D606371-01	1000	1		1	1				7.2					
-02	1000	1		1	1				7.2					
-03	1000	1		1	1				7.2					
-04	1000	1		1	1				7.2					
-05	1000	1		1	1				7.2					
-06	1000	1		1	1				7.2					
-07	1000	1		1	1				7.2					
-08	1000	1		1	1				7.2					
-09	1000	1		1	1				7.2					
-10	1000	1		1	1				7.2					
-11	1000	1		1	1				7.2					
-12	980	1		1	1				7.2					
-13	990	1		1	1				7.2					
-14	990	1		1	1				7.2					
-15	1000	1		1	1				7.2					
D606371-01	1000	1	NA	1	1	NA	06/23/06	40	7.2			EM	EM	JLS
-02	1000	1	NA	1	1	NA			7.2			EM	EM	JLS
-03	1000	1	NA	1	1	NA			7.2			EM	EM	JLS
-04	1000	1	NA	1	1	NA			7.2			EM	EM	JLS
-05	1000	1	NA	1	1	NA	06/23/06	40	7.2			EM	EM	JLS
-06	1000	1	NA	1	1	NA	06/23/06	40	7.2			EM	EM	JLS
-07	1000	1	NA	1	1	NA			7.2			EM	EM	JLS
-08	1000	1	NA	1	1	NA			7.2			EM	EM	JLS
-09	1000	1	NA	1	1	NA			7.2			EM	EM	JLS
-10	1000	1	NA	1	1	NA			7.2			EM	EM	JLS
-11	1000	1	NA	1	1	NA			7.2			EM	EM	JLS
-12	1000	1	NA	1	1	NA			7.2			EM	EM	JLS
-13	1000	1	NA	1	1	NA			7.2			EM	EM	JLS
-14	1000	1	NA	1	1	NA			7.2			EM	EM	JLS
-15	1000	1	NA	1	1	NA			7.2			EM	EM	JLS

Acid Washed:  Y /  N  
 H<sub>2</sub>SO<sub>4</sub> ID# NA

Prepared By EM Glasswool: NA Method #(s): 2270

CH<sub>2</sub>Cl<sub>2</sub> lot # C0479 NaOH ID# L20057147A  
 Hexane lot# NA Na<sub>2</sub>SO<sub>4</sub> ID# NA  
 Acetone lot# NA

# Pesticides Data Package

# Pesticides Sample Data



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW11  
Date Sampled: 06/21/06 12:53  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 5  
Extraction Method: 3510C

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-02  
Sample Matrix: Surface Water  
Analyst: SEP  
Prepared: 06/22/06

### 8081A Organochlorine Pesticides

<u>Analyte</u>		<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
4,4'-DDD		ND	ug/L	0.05	1	06/23/06
4,4'-DDE		ND	ug/L	0.05	1	06/23/06
<b>4,4'-DDT</b>	P	<b>0.08</b>	ug/L	0.05	1	06/23/06
Aldrin		ND	ug/L	0.05	1	06/23/06
alpha-BHC		ND	ug/L	0.05	1	06/23/06
alpha-Chlordane		ND	ug/L	0.05	1	06/23/06
beta-BHC		ND	ug/L	0.05	1	06/23/06
Chlordane (Total)		ND	ug/L	0.50	1	06/23/06
delta-BHC		ND	ug/L	0.05	1	06/23/06
Dieldrin		ND	ug/L	0.05	1	06/23/06
Endosulfan I		ND	ug/L	0.05	1	06/23/06
Endosulfan II		ND	ug/L	0.05	1	06/23/06
Endosulfan Sulfate		ND	ug/L	0.05	1	06/23/06
Endrin		ND	ug/L	0.05	1	06/23/06
Endrin Aldehyde		ND	ug/L	0.05	1	06/23/06
Endrin Ketone		ND	ug/L	0.05	1	06/23/06
gamma-BHC (Lindane)		ND	ug/L	0.05	1	06/23/06
gamma-Chlordane		ND	ug/L	0.05	1	06/23/06
Heptachlor		ND	ug/L	0.05	1	06/23/06
Heptachlor Epoxide		ND	ug/L	0.05	1	06/23/06
Hexachlorobenzene		ND	ug/L	0.05	1	06/23/06
Methoxychlor		ND	ug/L	0.05	1	06/23/06
Toxaphene		ND	ug/L	2.50	1	06/23/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	73 %		30-150
Surrogate: Decachlorobiphenyl [2C]	64 %		30-150
Surrogate: Tetrachloro-m-xylene	57 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	46 %		30-150

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW19  
Date Sampled: 06/21/06 13:30  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 5  
Extraction Method: 3510C

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-03  
Sample Matrix: Surface Water  
Analyst: SEP  
Prepared: 06/22/06

### 8081A Organochlorine Pesticides

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
4,4'-DDD	ND	ug/L	0.05	1	06/23/06
4,4'-DDE	ND	ug/L	0.05	1	06/23/06
4,4'-DDT	ND	ug/L	0.05	1	06/23/06
Aldrin	ND	ug/L	0.05	1	06/23/06
alpha-BHC	ND	ug/L	0.05	1	06/23/06
alpha-Chlordane	ND	ug/L	0.05	1	06/23/06
beta-BHC	ND	ug/L	0.05	1	06/23/06
Chlordane (Total)	ND	ug/L	0.50	1	06/23/06
delta-BHC	ND	ug/L	0.05	1	06/23/06
Dieldrin	ND	ug/L	0.05	1	06/23/06
Endosulfan I	ND	ug/L	0.05	1	06/23/06
Endosulfan II	ND	ug/L	0.05	1	06/23/06
Endosulfan Sulfate	ND	ug/L	0.05	1	06/23/06
Endrin	ND	ug/L	0.05	1	06/23/06
Endrin Aldehyde	ND	ug/L	0.05	1	06/23/06
Endrin Ketone	ND	ug/L	0.05	1	06/23/06
gamma-BHC (Lindane)	ND	ug/L	0.05	1	06/23/06
gamma-Chlordane	ND	ug/L	0.05	1	06/23/06
Heptachlor	ND	ug/L	0.05	1	06/23/06
Heptachlor Epoxide	ND	ug/L	0.05	1	06/23/06
Hexachlorobenzene	ND	ug/L	0.05	1	06/23/06
Methoxychlor	ND	ug/L	0.05	1	06/23/06
Toxaphene	ND	ug/L	2.50	1	06/23/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	118 %		30-150
Surrogate: Decachlorobiphenyl [2C]	103 %		30-150
Surrogate: Tetrachloro-m-xylene	86 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	76 %		30-150

# Pesticides Quality Control

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 3005A/6000/7000 Total Metals

##### Batch BF62207 - 3005A

Thallium	0.0200	0.0020	mg/L	0.0200		100	80-120			
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##### LCS Dup

Barium	0.509	0.050	mg/L	0.500		102	80-120	0	20	
Beryllium	0.053	0.001	mg/L	0.0500		106	80-120	0	20	
Cadmium	0.259	0.005	mg/L	0.250		104	80-120	0	20	
Calcium	5.24	0.20	mg/L	5.00		105	80-120	0	20	
Chromium	0.520	0.020	mg/L	0.500		104	80-120	0	20	
Copper	0.510	0.020	mg/L	0.500		102	80-120	0	20	
Magnesium	5.06	0.20	mg/L	5.00		101	80-120	0	20	
Nickel	0.520	0.050	mg/L	0.500		104	80-120	0	20	
Selenium	1.06	0.05	mg/L	1.00		106	80-120	0	20	
Silver	0.261	0.005	mg/L	0.250		104	80-120	0	20	
Zinc	0.517	0.050	mg/L	0.500		103	80-120	0	20	

##### LCS Dup

Antimony	0.0240	0.0050	mg/L	0.0200		120	80-120	26	20	+
Arsenic	0.0190	0.0050	mg/L	0.0200		95	80-120	0.5	20	
Lead	0.0202	0.0050	mg/L	0.0200		101	80-120	1	20	
Thallium	0.0202	0.0020	mg/L	0.0200		101	80-120	1	20	

##### Batch BF62210 - 245.1/7470A

##### Blank

Mercury	ND	0.0005	mg/L							
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##### LCS

Mercury	0.0059	0.0005	mg/L	0.00600		98	80-120			
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##### LCS Dup

Mercury	0.0059	0.0005	mg/L	0.00600		98	80-120	0	20	
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##### Duplicate Source: 0606346-10

Mercury	ND	0.0005	mg/L		ND				20	
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##### Matrix Spike Source: 0606346-10

Mercury	0.0061	0.0005	mg/L	0.00600	ND	102	75-125			
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##### Matrix Spike Dup Source: 0606346-10

Mercury	0.0061	0.0005	mg/L	0.00600	ND	102	75-125	0	20	
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##### Batch BF62211 - 245.1/7470A

##### Blank

Mercury	ND	0.0005	mg/L							
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##### LCS

Mercury	0.0059	0.0005	mg/L	0.00600		98	80-120			
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##### LCS Dup

Mercury	0.0059	0.0005	mg/L	0.00600		98	80-120	0	20	
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#### 8081A Organochlorine Pesticides

##### Batch BF62219 - 3510C

##### Blank

4,4'-DDD	ND	0.05	ug/L	748						
4,4'-DDE	ND	0.05	ug/L							

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8081A Organochlorine Pesticides

##### Batch BF62219 - 3510C

4,4'-DDT	ND	0.05	ug/L							
Aldrin	ND	0.05	ug/L							
alpha-BHC	ND	0.05	ug/L							
alpha-Chlordane	ND	0.05	ug/L							
beta-BHC	ND	0.05	ug/L							
Chlordane (Total)	ND	0.50	ug/L							
delta-BHC	ND	0.05	ug/L							
Dieldrin	ND	0.05	ug/L							
Endosulfan I	ND	0.05	ug/L							
Endosulfan II	ND	0.05	ug/L							
Endosulfan Sulfate	ND	0.05	ug/L							
Endrin	ND	0.05	ug/L							
Endrin Aldehyde	ND	0.05	ug/L							
Endrin Ketone	ND	0.05	ug/L							
gamma-BHC (Lindane)	ND	0.05	ug/L							
gamma-Chlordane	ND	0.05	ug/L							
Heptachlor	ND	0.05	ug/L							
Heptachlor Epoxide	ND	0.05	ug/L							
Hexachlorobenzene	ND	0.05	ug/L							
Methoxychlor	ND	0.05	ug/L							
Toxaphene	ND	2.50	ug/L							

Surrogate: Decachlorobiphenyl	0.301		ug/L	0.250		120	30-150
Surrogate: Decachlorobiphenyl [2C]	0.278		ug/L	0.250		111	30-150
Surrogate: Tetrachloro-m-xylene	0.243		ug/L	0.250		97	30-150
Surrogate: Tetrachloro-m-xylene [2C]	0.213		ug/L	0.250		85	30-150

##### LCS

4,4'-DDD	0.28	0.05	ug/L	0.250		112	40-140
4,4'-DDE	0.26	0.05	ug/L	0.250		104	40-140
4,4'-DDT	0.28	0.05	ug/L	0.250		112	40-140
Aldrin	0.26	0.05	ug/L	0.250		104	40-140
alpha-BHC	0.27	0.05	ug/L	0.250		108	40-140
alpha-Chlordane	0.27	0.05	ug/L	0.250		108	40-140
beta-BHC	0.27	0.05	ug/L	0.250		108	40-140
delta-BHC	0.23	0.05	ug/L	0.250		92	40-140
Dieldrin	0.27	0.05	ug/L	0.250		108	40-140
Endosulfan I	0.27	0.05	ug/L	0.250		108	40-140
Endosulfan II	0.26	0.05	ug/L	0.250		104	40-140
Endosulfan Sulfate	0.25	0.05	ug/L	0.250		100	40-140
Endrin	0.28	0.05	ug/L	0.250		112	40-140
Endrin Aldehyde	0.24	0.05	ug/L	0.250		96	40-140
Endrin Ketone	0.27	0.05	ug/L	0.250		108	40-140
gamma-BHC (Lindane)	0.27	0.05	ug/L	0.250		108	40-140
gamma-Chlordane	0.29	0.05	ug/L	0.250		116	40-140
Heptachlor	0.26	0.05	ug/L	0.250		104	40-140
Heptachlor Epoxide	0.27	0.05	ug/L	0.250		108	40-140
Hexachlorobenzene	0.14	0.05	ug/L	0.250		56	40-140

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8081A Organochlorine Pesticides

##### Batch BF62219 - 3510C

Methoxychlor	0.30	0.05	ug/L	0.250		120	40-140			
Surrogate: Decachlorobiphenyl	0.304		ug/L	0.250		122	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.281		ug/L	0.250		112	30-150			
Surrogate: Tetrachloro-m-xylene	0.241		ug/L	0.250		96	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.225		ug/L	0.250		90	30-150			

##### LCS Dup

4,4'-DDD	0.29	0.05	ug/L	0.250		116	40-140	4	30	
4,4'-DDE	0.29	0.05	ug/L	0.250		116	40-140	11	30	
4,4'-DDT	0.33	0.05	ug/L	0.250		132	40-140	16	30	
Aldrin	0.27	0.05	ug/L	0.250		108	40-140	4	30	
alpha-BHC	0.26	0.05	ug/L	0.250		104	40-140	4	30	
alpha-Chlordane	0.28	0.05	ug/L	0.250		112	40-140	4	30	
beta-BHC	0.31	0.05	ug/L	0.250		124	40-140	14	30	
delta-BHC	0.25	0.05	ug/L	0.250		100	40-140	8	30	
Dieldrin	0.29	0.05	ug/L	0.250		116	40-140	7	30	
Endosulfan I	0.29	0.05	ug/L	0.250		116	40-140	7	30	
Endosulfan II	0.31	0.05	ug/L	0.250		124	40-140	18	30	
Endosulfan Sulfate	0.29	0.05	ug/L	0.250		116	40-140	15	30	
Endrin	0.31	0.05	ug/L	0.250		124	40-140	10	30	
Endrin Aldehyde	0.29	0.05	ug/L	0.250		116	40-140	19	30	
Endrin Ketone	0.29	0.05	ug/L	0.250		116	40-140	7	30	
gamma-BHC (Lindane)	0.28	0.05	ug/L	0.250		112	40-140	4	30	
gamma-Chlordane	0.37	0.05	ug/L	0.250		148	40-140	24	30	+
Heptachlor	0.27	0.05	ug/L	0.250		108	40-140	4	30	
Heptachlor Epoxide	0.27	0.05	ug/L	0.250		108	40-140	0	30	
Hexachlorobenzene	0.17	0.05	ug/L	0.250		68	40-140	19	30	
Methoxychlor	0.34	0.05	ug/L	0.250		136	40-140	12	30	

Surrogate: Decachlorobiphenyl	0.297		ug/L	0.250		119	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.284		ug/L	0.250		114	30-150			
Surrogate: Tetrachloro-m-xylene	0.236		ug/L	0.250		94	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.222		ug/L	0.250		89	30-150			

#### 8082 Polychlorinated Biphenyls (PCB)

##### Batch BF63030 - 3510C

##### Blank

Aroclor 1016	ND	0.100	ug/L							
Aroclor 1016 (1)	ND	0.100	ug/L							
Aroclor 1016 (1) [2C]	ND	0.100	ug/L							
Aroclor 1016 (2)	ND	0.100	ug/L							
Aroclor 1016 (2) [2C]	ND	0.100	ug/L							
Aroclor 1016 (3)	ND	0.100	ug/L							
Aroclor 1016 (3) [2C]	ND	0.100	ug/L							
Aroclor 1016 (4)	ND	0.100	ug/L							
Aroclor 1016 (4) [2C]	ND	0.100	ug/L							
Aroclor 1016 (5)	ND	0.100	ug/L	750						

# Pesticides Calibration Data

## ANALYSIS SEQUENCE

BPG0249

Instrument: SVOAGC6

Calibration ID: UNASSIGNED

8081EH

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0249-PEM1	QC		1		6E02036		
BPG0249-CAL1	QC		2		6E30081		
BPG0249-CAL2	QC		3		6E30082		
BPG0249-CAL3	QC		4		6E30083		
BPG0249-CAL4	QC		5		6E30084		
BPG0249-CAL5	QC		6		6E30085		
BPG0249-CAL6	QC		7		6E30086		
BPG0249-CAL7	QC		8		6E30087		
BPG0249-SCV1	QC		9		6E30089		

Samples Loaded By

Date

Data Processed By

Date



ESS LABORATORY  
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/21/06	6E062065-1	1	Prime	8081EG		SR
	2	2	Pem	↓	high baseline.	
	3	3	Pest Spb	↓		
	6E06216A	1	Prime	8081EH		
	2	2	Pem	✓		03:32 PM
	3	3	Pest Spb	✓	6F21084	
	4	4	10ppb	✓	087	
	5	5	20ppb	✓	089	
	6	6	50ppb	✓	089	
	7	7	60ppb	✓	090	
	8	8	80ppb	✓	091 Thru	
	9	9	100ppb	✓	092	
	10	10	↓ SS		093	
	11	11	Pest SS	✓	6F21 094	
	12	12	BFG1910-BIK1	✓		
	13	13	BS1	✓		
	14	14	BS01	✓		
	15	15	0606253-01	✓		
	16	16	01MS	✓		
	17	17	02	SR ✓ B+MS		
	18	18	03	✓		
	19	19	04	✓		
	20	20	05	✓		
	21	21	06	✓		
	22	22	Hexane			↓
6/21/06	6E06216A 23	23	Pest 20 ppb	8081EH ✓	6F21085	01:21 Am SR

CONTROL NUMBER 60.0012-0602A

PAGE \_\_\_\_\_

ESS LABORATORY  
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/20/06	23	6E06216A-23	Pest 20 ppb	8081EH	6F21085	JEA
↓	24	↓ 24	Chlor 250 ppb ✓	↓	6F21095	↓
6/21/06	25	↓ 25	Tox 2500 ppb ✓	8081EH	6F21096	STY
6/21/06	26	6E06216A-26	Pest ms 6F21098 ✓	8081EH		STP
6/22/06	1	6E062200-1	Prime	8081EH		STP
	2	↓ 2	Pem ✓			
	3	↓ 3	Pest 50 cc ✓			
	3	↓ 3	Pest 50 cc			
	4	↓ 4	BFG 1422-BIK1			
	5	↓ 5	↓ BSI			
	6	↓ 6	↓ BSD1			
	7	↓ 7	0606200-01			
	8	↓ 8	02			
	9	↓ 9	02ms			
	10	↓ 10	02MSD			
	11	↓ 11	03			
	12	↓ 12	03ms			
	13	↓ 13	03MSD			
	14	↓ 14	04			
	15	↓ 15	05			
	16	↓ 16	06			
	17	↓ 17	07			
	18	↓ 18	07ms			
	19	↓ 19	07MSD			
	20	↓ 20	↓ 08			
6/22/06	21	6E062200-21	0606200-09	8081EH		JEA

CONTROL NUMBER 60.0012-0602A

PAGE \_\_\_\_\_

Signal #1 : Q:\SVOA\GC3\_GE\DATA\GE06216A\002F0101.D Vial: 2  
 Signal #2 : Q:\SVOA\GC3\_GE\DATA\GE06216A\002F0101.D\002R0101.D  
 Acq On : 21 Jun 06 03:32 PM Operator: [GC]2R0101.D\DATA.MS  
 Sample : PEM Inst : GC3  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 22 7:28 19106

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Title :  
 Last Update : Thu Jun 22 06:59:52 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 3 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xylen	7.65	8.77	2882628	1075954	47.270	49.039
			Recovery	=	94.54%	98.08%
23) S Decachlorobiphenyl	18.14	20.79	1742144	864520	38.565m	36.560
			Recovery	=	77.13%	73.12%
Target Compounds						
2) M Hexachlorobenzene	0.00	0.00	0	0	N.D.d	N.D.d
3) M alpha-BHC	0.00	0.00	0	0	N.D.d	N.D.d
4) M gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.d	N.D.d
5) M beta-BHC	0.00	0.00	0	0	N.D.d	N.D.d
6) M delta-BHC	0.00	0.00	0	0	N.D.d	N.D.d
7) M Heptachlor	0.00	0.00	0	0	N.D.d	N.D.d
8) M Aldrin	0.00	0.00	0	0	N.D.d	N.D.d
9) M Heptachlor Epoxide	0.00	0.00	0	0	N.D.d	N.D.d
10) M gamma-Chlordane	0.00	0.00	0	0	N.D.d	N.D.d
11) M alpha-Chlordane	0.00	0.00	0	0	N.D.d	N.D.d
12) M 4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13) M Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
14) M Dieldrin	0.00	0.00	0	0	N.D.	N.D.
15) M Endrin	14.06	15.37	4811339	1683303	117.714m	108.165m
16) M 4,4'-DDD	14.17	15.49	114493	46650	3.305m	5.002m#
17) M Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18) M 4,4'-DDT	14.61	16.00	4127673	1612906	106.239	113.549
19) M Endrin Aldehyde	15.16	0.00	10512	0	1.231m	N.D.d#
20) M Methoxychlor	0.00	0.00	0	0	N.D.d	N.D.d
21) M Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22) M Endrin Ketone	16.36	17.85	15292	7242	1.562m	2.756m#

$$\Sigma \frac{25804}{4837.173} = 0.533\% \quad \text{DDT} \quad \frac{114493}{4242166} = 2.69\%$$

$$\Sigma \frac{7242}{1690545} = 0.43\% \quad \text{DDT} \quad \frac{46650}{1659556} = 2.80\%$$

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Title :  
 Last Update : Thu Jun 22 06:59:52 2006  
 Response via : Initial Calibration

## Calibration Files

10 =004F0101.D 20 =005F0101.D 5 =003F0101.D  
 60 =007F0101.D = 100 =009F0101.D

Compound	10	20	5	60	100	Avg	%RSD
1) S Tetrachloro-m-xylen	51.0	62.9	55.4	63.0	60.2	61.8	59.0 E3 8.21
2) M Hexachlorobenzene	93.2	105.8	95.6	102.3	91.7	99.0	97.9 E3 5.58
3) M alpha-BHC	57.2	68.9	58.7	77.2	73.4	74.2	68.3 E3 12.36
4) M gamma-BHC (Lindane)	54.7	64.8	60.0	72.5	67.8	68.5	64.7 E3 9.96
5) M beta-BHC	28.9	35.3	31.1	36.9	34.4	36.0	33.8 E3 9.14
6) M delta-BHC	49.9	61.8	53.4	71.6	67.4	68.4	62.1 E3 14.11
7) M Heptachlor	50.1	59.9	52.1	65.8	61.5	62.6	58.7 E3 10.59
8) M Aldrin	53.1	60.6	53.4	63.7	59.6	61.9	58.7 E3 7.61
9) M Heptachlor Epoxide	49.6	56.1	51.8	59.0	55.1	59.2	55.1 E3 7.02
10) M gamma-Chlordane	46.3	59.8	50.0	59.9	56.4	59.5	55.3 E3 10.50
11) M alpha-Chlordane	49.3	57.8	52.1	56.5	53.1	55.7	54.1 E3 5.88
12) M 4,4'-DDE	46.9	55.0	56.5	56.5	53.3	55.0	53.9 E3 6.74
13) M Endosulfan I	46.9	55.2	54.6	57.6	56.4	55.8	54.4 E3 7.03
14) M Dieldrin	45.5	51.9	48.0	54.9	52.0	53.3	50.9 E3 6.88
15) M Endrin	34.6	39.6	36.1	42.8	40.0	41.3	39.1 E3 8.04
16) M 4,4'-DDD	38.0	44.3	34.8	47.8	45.1	45.8	42.6 E3 11.86
17) M Endosulfan II	36.2	43.2	41.9	47.7	44.6	45.7	43.2 E3 9.20
18) M 4,4'-DDT	27.7	34.4	31.1	40.4	38.0	39.2	35.1 E3 14.16
19) M Endrin Aldehyde	30.1	34.6	30.9	37.5	36.0	36.2	34.2 E3 8.93
20) M Methoxychlor	14.3	17.2	18.1	22.0	20.6	20.5	18.8 E3 15.03
21) M Endosulfan Sulfate	41.2	39.9	30.7	43.7	41.4	42.3	39.8 E3 11.72
22) M Endrin Ketone	38.1	47.1	34.8	51.5	48.7	49.3	44.9 E3 15.13
23) S Decachlorobiphenyl	37.2	47.5	39.9	47.4	43.5	46.8	43.7 E3 9.95

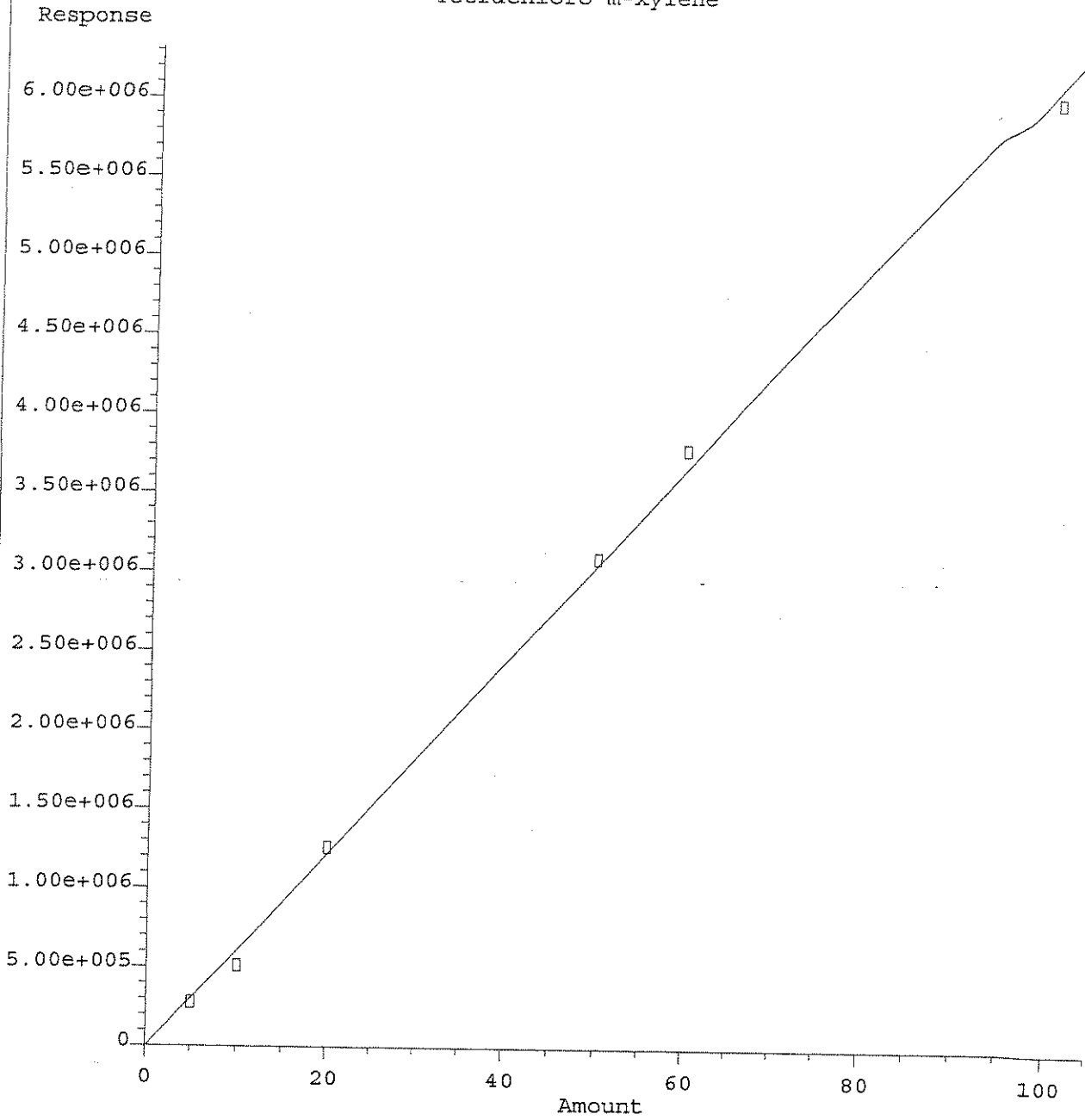
Used  
Linear  
Curves

## Signal #2 Calibration Files

10 =004R0101.D 20 =005R0101.D 5 =003R0101.D  
 60 =007R0101.D = 100 =009R0101.D

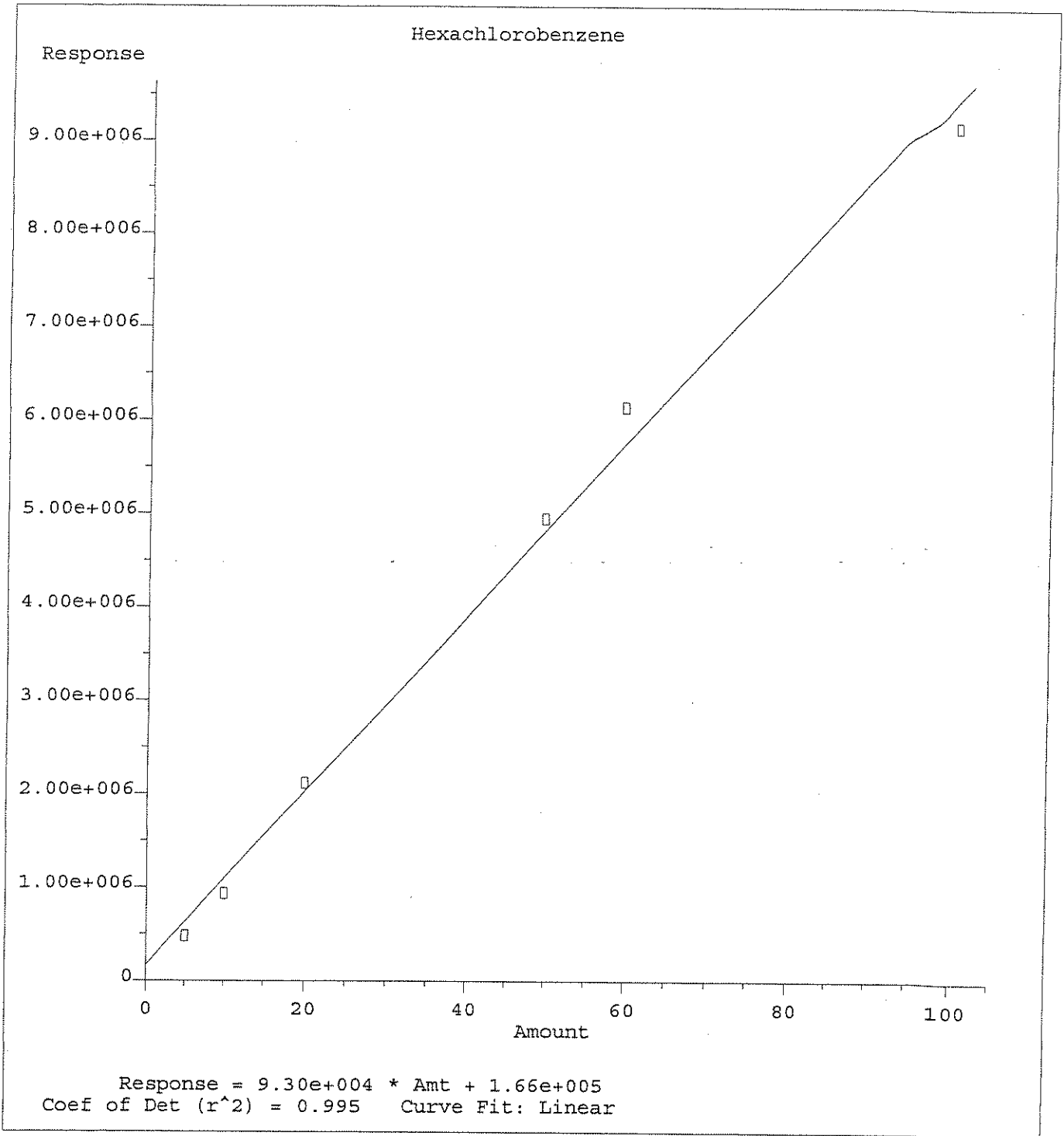
Compound	10	20	5	60	100	Avg	%RSD
1) S Tetrachloro-m-xylen	17.8	21.1	19.3	23.1	21.6	22.3	20.9 E3 9.56
2) M Hexachlorobenzene	34.9	38.5	35.4	39.7	35.9	38.8	37.2 E3 5.42
3) M alpha-BHC	15.6	20.8	15.7	28.3	28.2	26.3	22.5 E3 26.50
4) M gamma-BHC (Lindane)	16.2	20.9	16.8	26.9	26.3	25.2	22.1 E3 21.61
5) M beta-BHC	11.6	12.6	11.5	14.3	13.5	13.6	12.9 E3 8.86
6) M delta-BHC	15.0	19.6	15.9	26.3	25.8	24.4	21.2 E3 23.75
7) M Heptachlor	16.0	19.9	17.8	24.4	23.7	22.8	20.8 E3 16.45
8) M Aldrin	16.6	20.0	17.7	24.0	23.3	22.8	20.8 E3 14.94
9) M Heptachlor Epoxide	17.7	20.4	21.6	23.2	22.1	22.2	21.2 E3 9.24
10) M gamma-Chlordane	18.0	21.0	18.9	23.5	22.3	22.6	21.1 E3 10.34
11) M alpha-Chlordane	18.4	21.6	19.7	23.8	22.4	22.9	21.5 E3 9.52
12) M 4,4'-DDE	16.5	19.8	17.5	23.0	21.9	21.8	20.1 E3 13.04
13) M Endosulfan I	15.7	18.7	15.7	21.7	20.7	20.6	18.9 E3 13.86
14) M Dieldrin	15.0	18.0	15.4	21.6	21.0	20.4	18.6 E3 15.40
15) M Endrin	10.6	12.7	12.5	15.7	15.5	14.7	13.6 E3 14.66
16) M 4,4'-DDD	12.4	15.0	13.2	18.0	17.6	16.9	15.5 E3 15.15
17) M Endosulfan II	16.2	19.1	19.8	20.8	19.5	20.5	19.3 E3 8.61
18) M 4,4'-DDT	6.8	9.5	6.6	14.0	14.2	12.6	10.6 E3 32.81
19) M Endrin Aldehyde	13.9	16.1	14.7	17.7	16.4	16.9	15.9 E3 8.82
20) M Methoxychlor	5.5	6.9	5.1	9.6	9.2	8.8	7.5 E3 25.85
21) M Endosulfan Sulfate	14.1	16.6	14.8	18.7	17.9	17.8	16.7 E3 10.99
22) M Endrin Ketone	15.1	20.0	16.7	23.5	23.3	23.5	20.3 E3 18.31
23) S Decachlorobiphenyl	21.7	24.7	24.2	24.7	22.7	23.9	23.6 E3 5.09

Tetrachloro-m-xylene

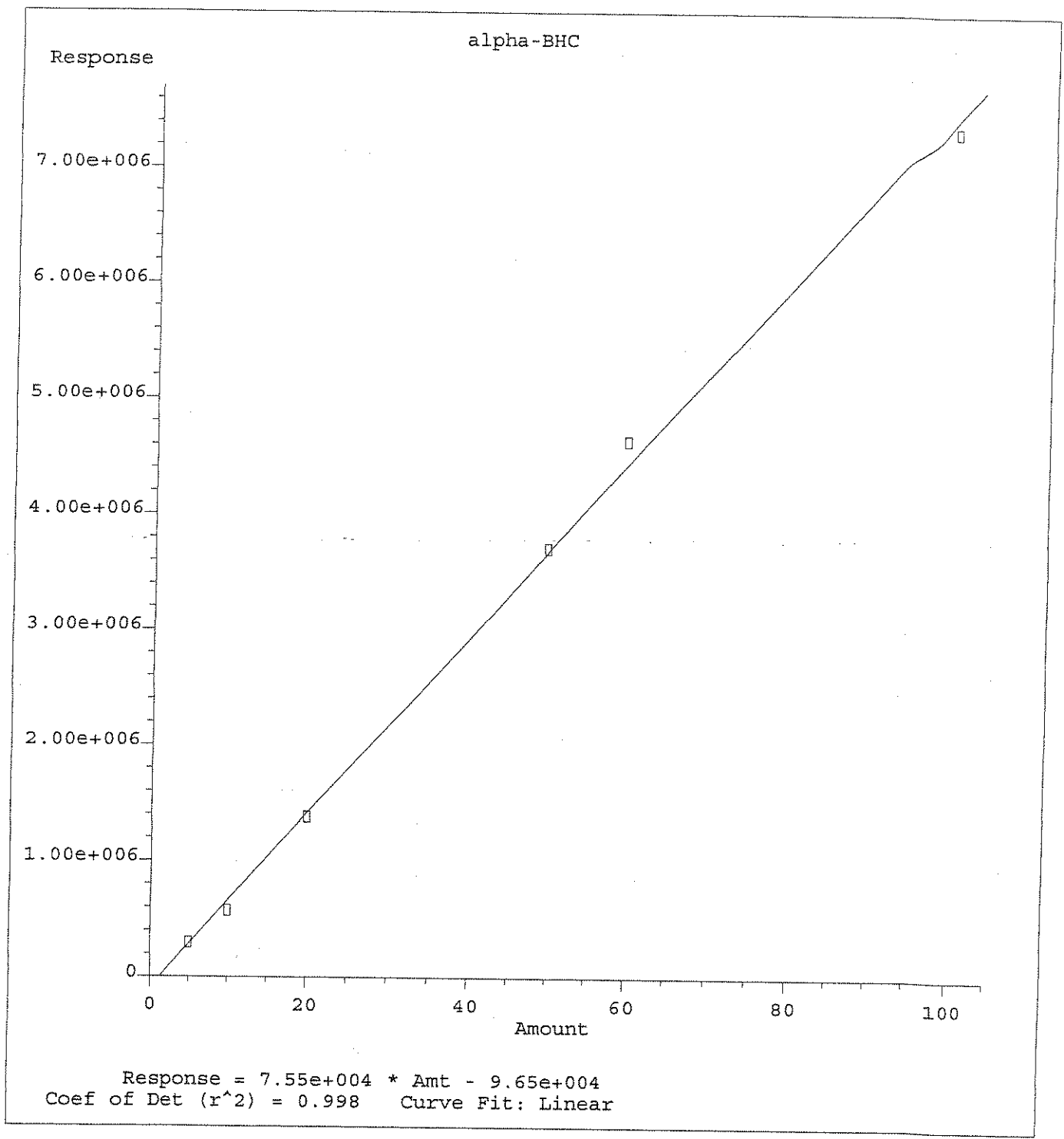


Response =  $6.12e+004 * Amt - 8.47e+003$   
Coef of Det ( $r^2$ ) = 0.999    Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

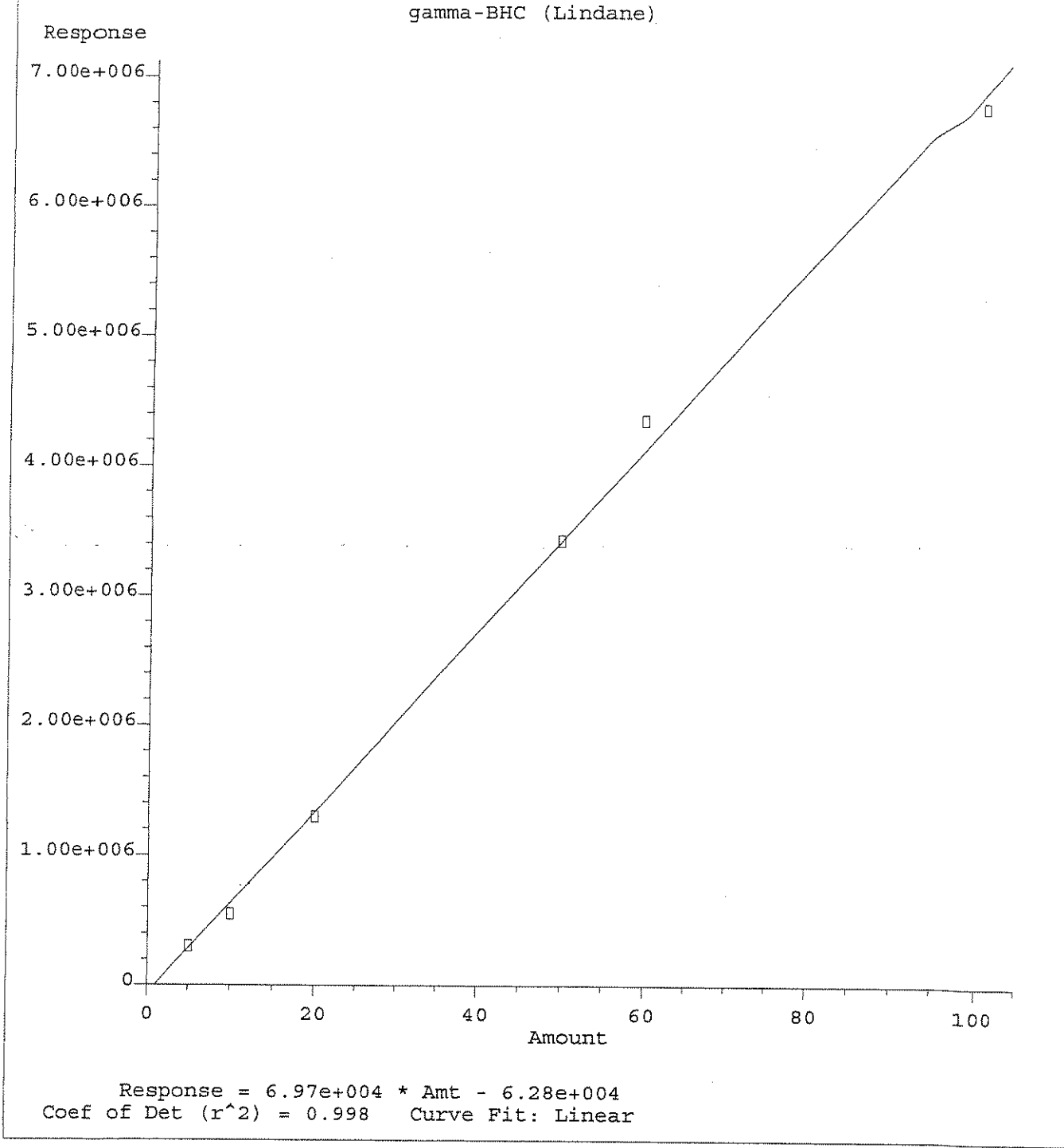


Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



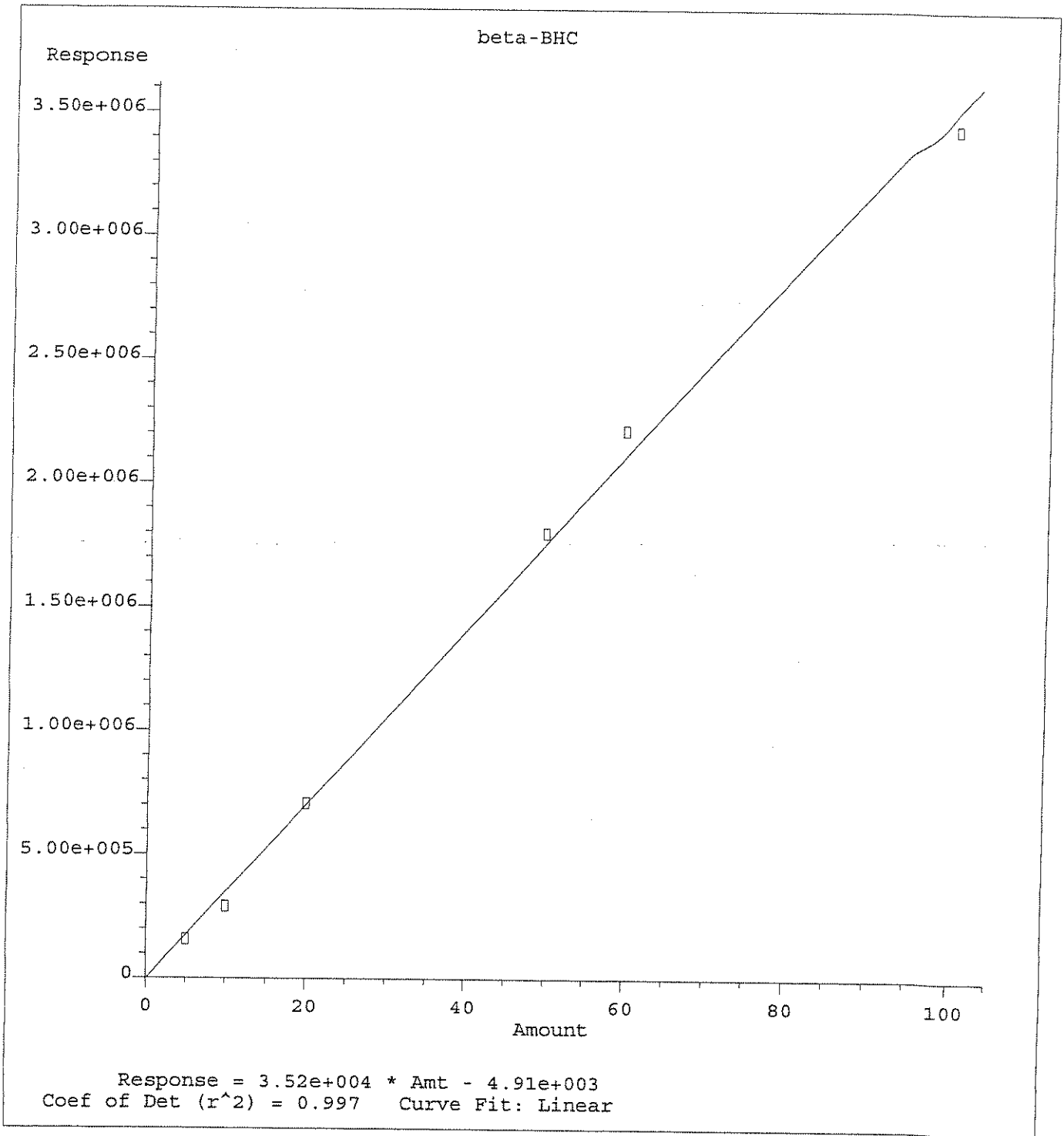
Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

gamma-BHC (Lindane)

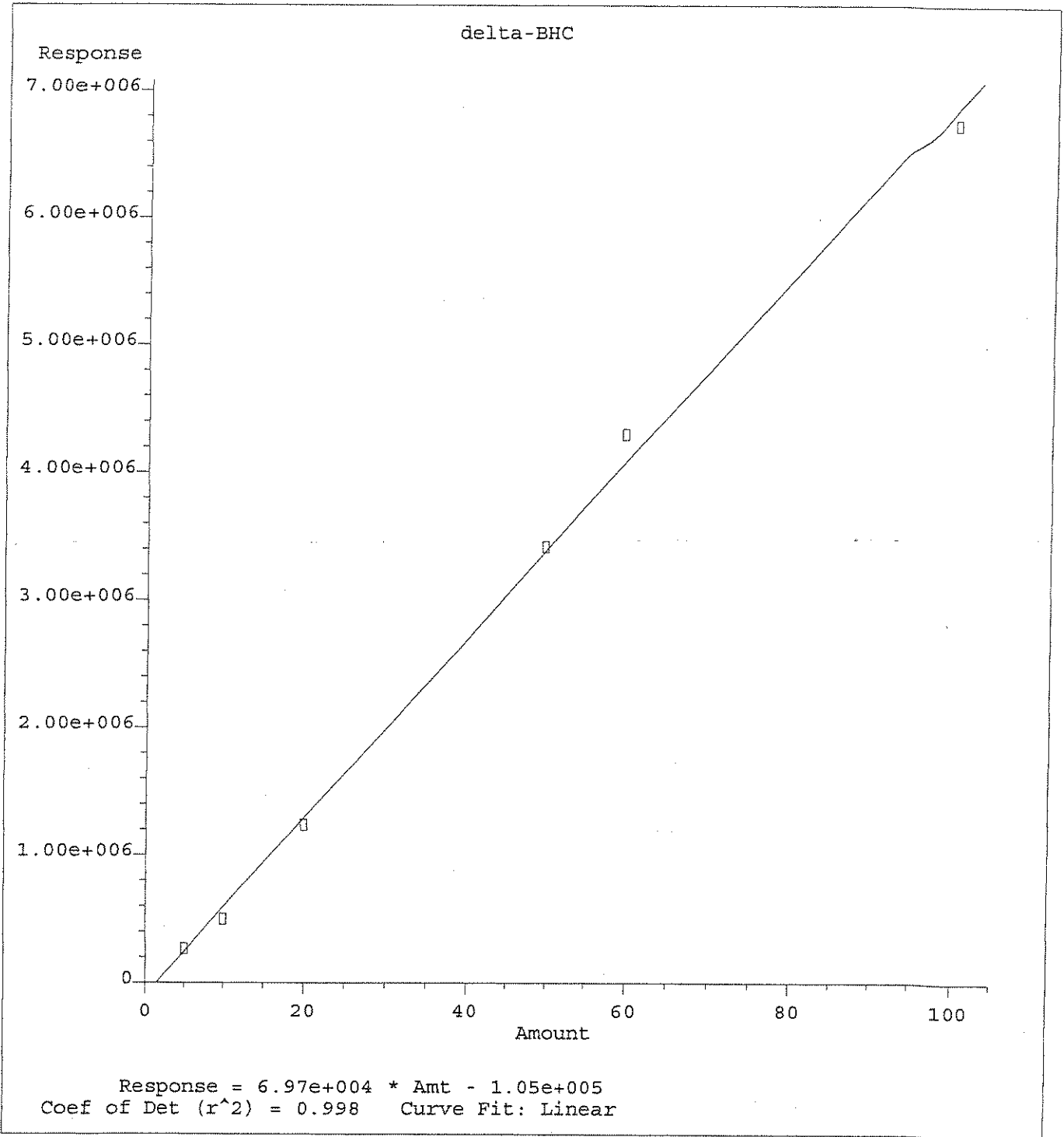


Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



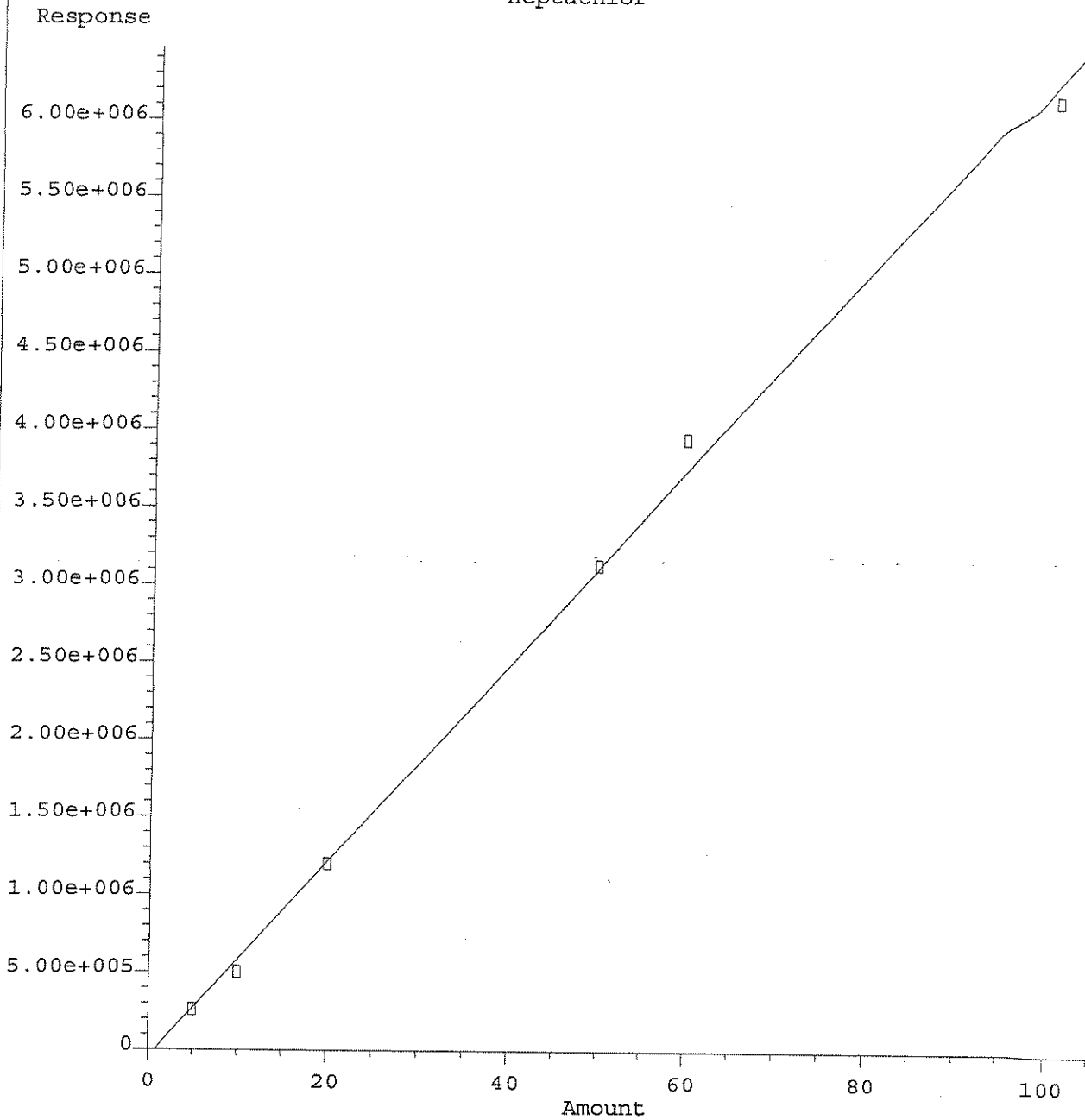


Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

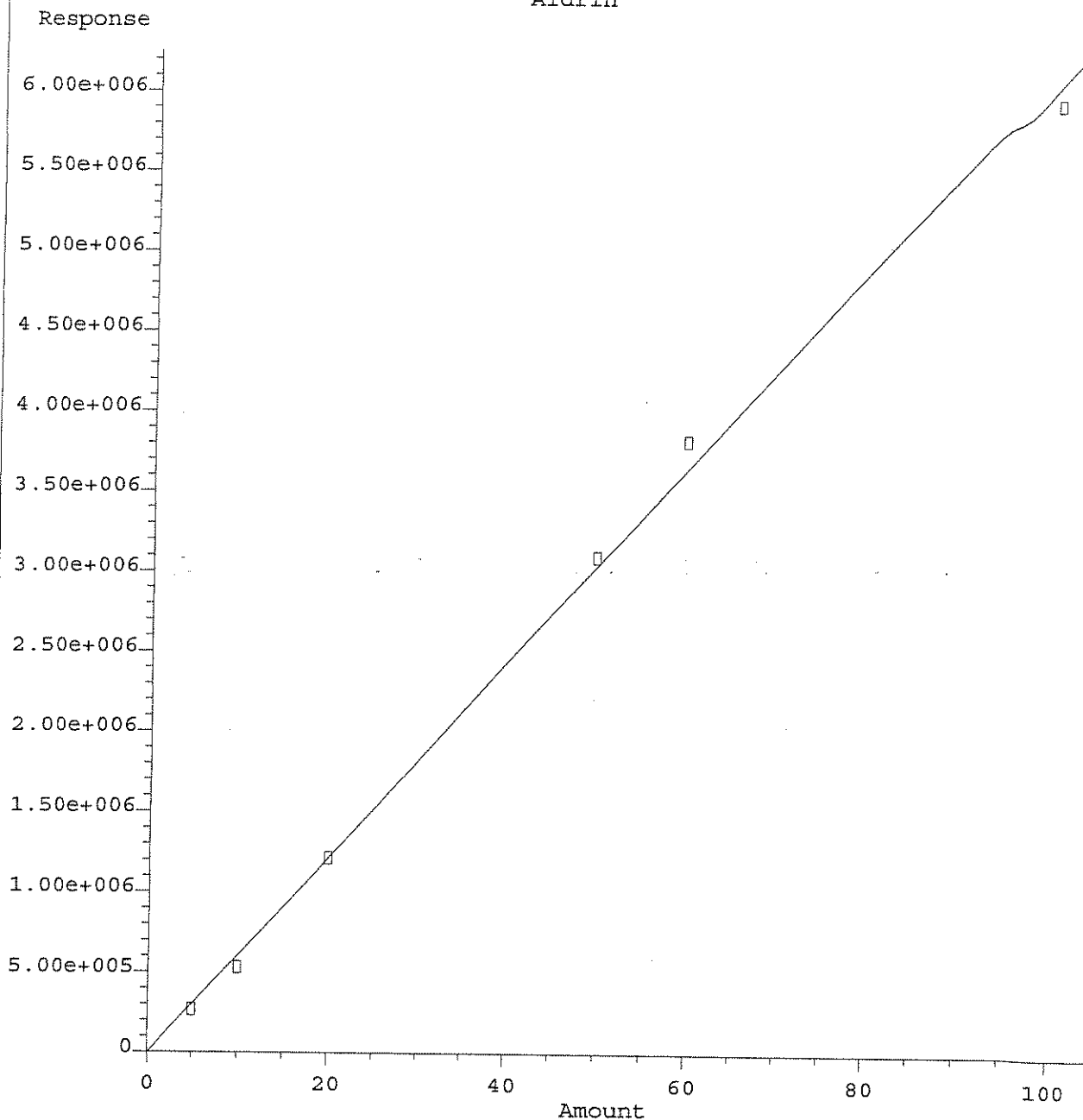
Heptachlor



Response = 6.32e+004 \* Amt - 5.04e+004  
Coef of Det (r^2) = 0.998 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

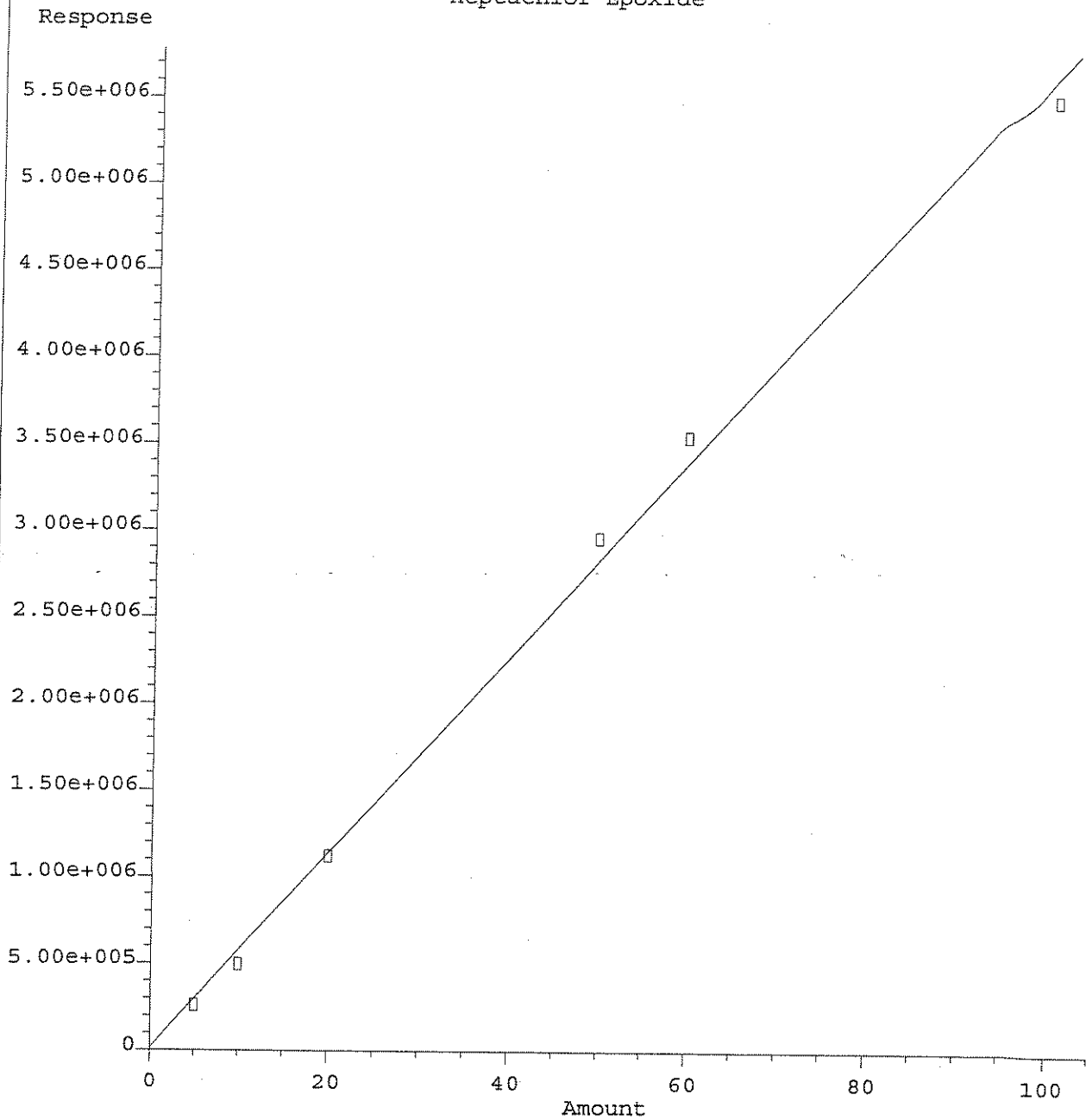
Aldrin



Response =  $6.09e+004 * \text{Amt} - 3.78e+003$   
Coef of Det ( $r^2$ ) = 0.998 Curve Fit: Linear

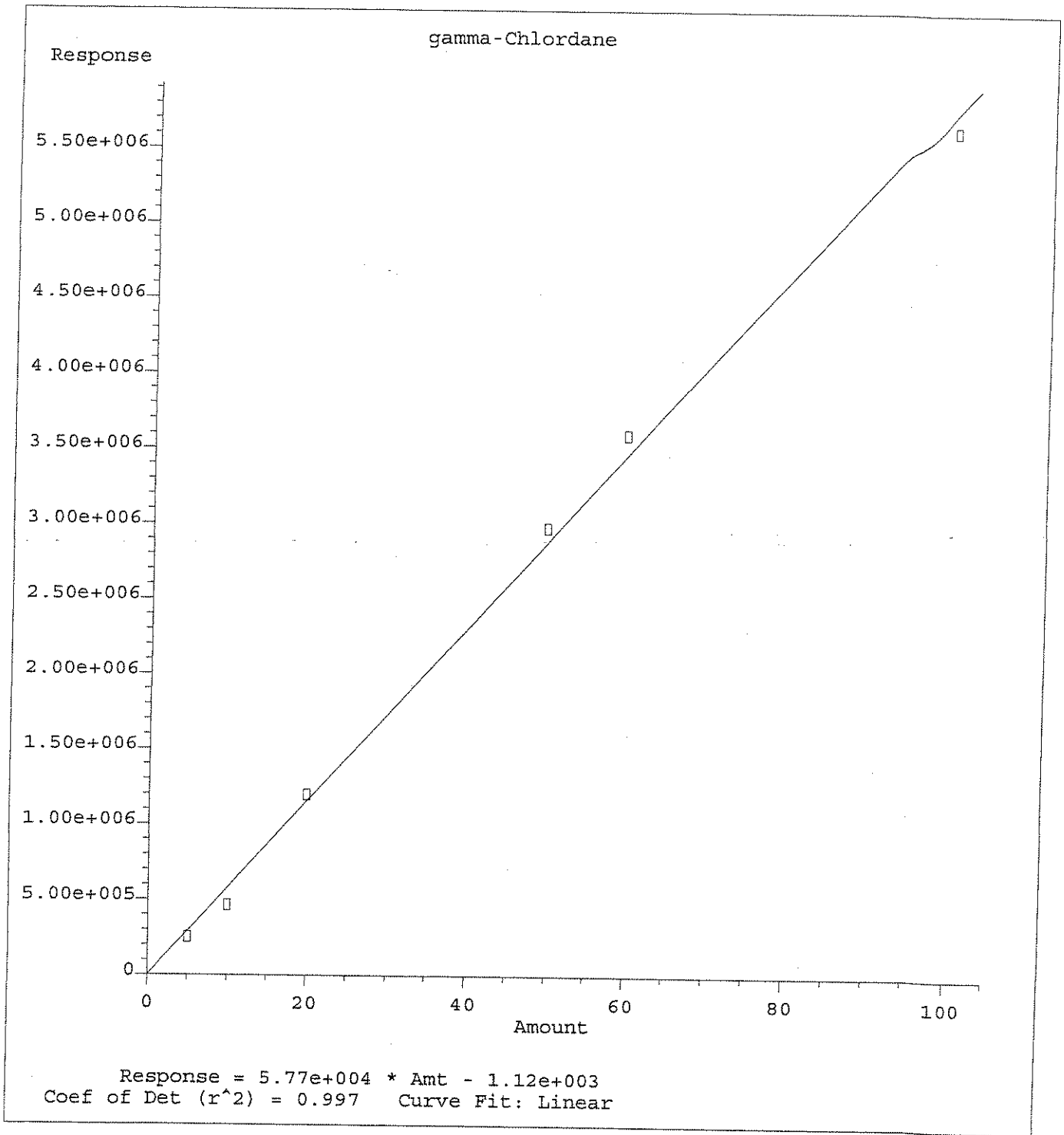
Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

Heptachlor Epoxide



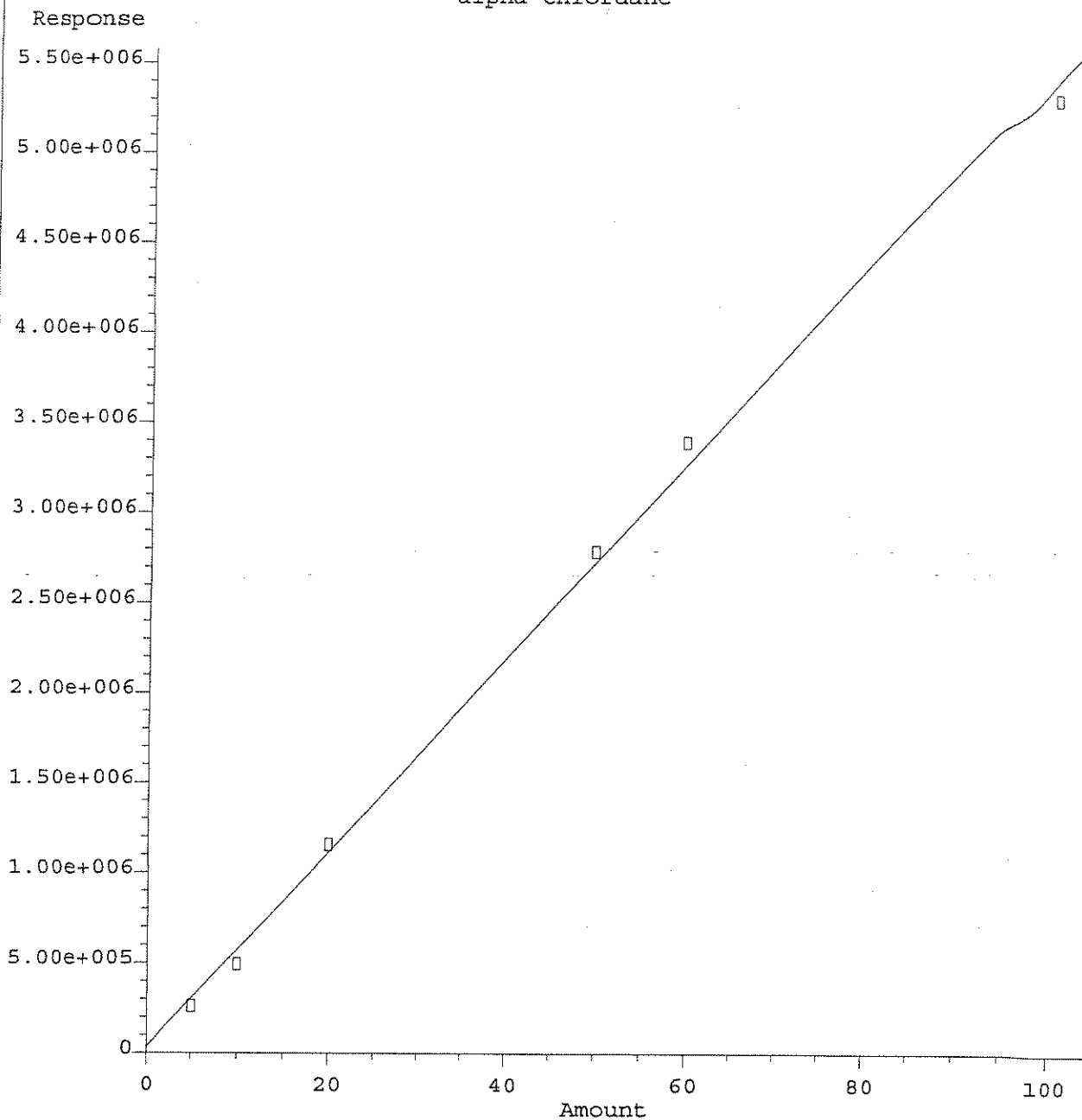
Response = 5.63e+004 \* Amt + 1.47e+004  
Coef of Det (r^2) = 0.997 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

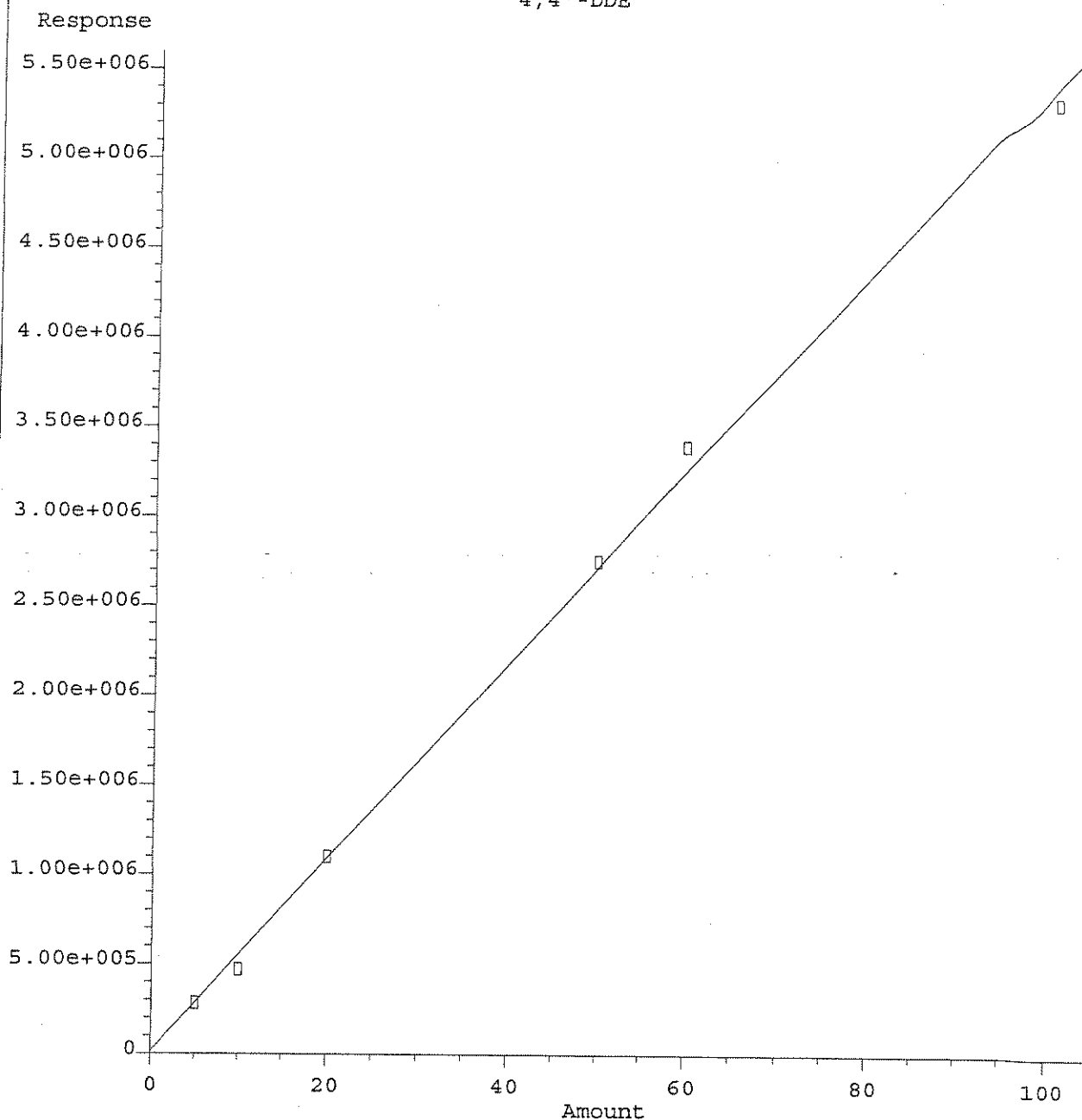
alpha-Chlordane



Response =  $5.38e+004 * Amt + 3.64e+004$   
Coef of Det ( $r^2$ ) = 0.998 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

4,4'-DDE

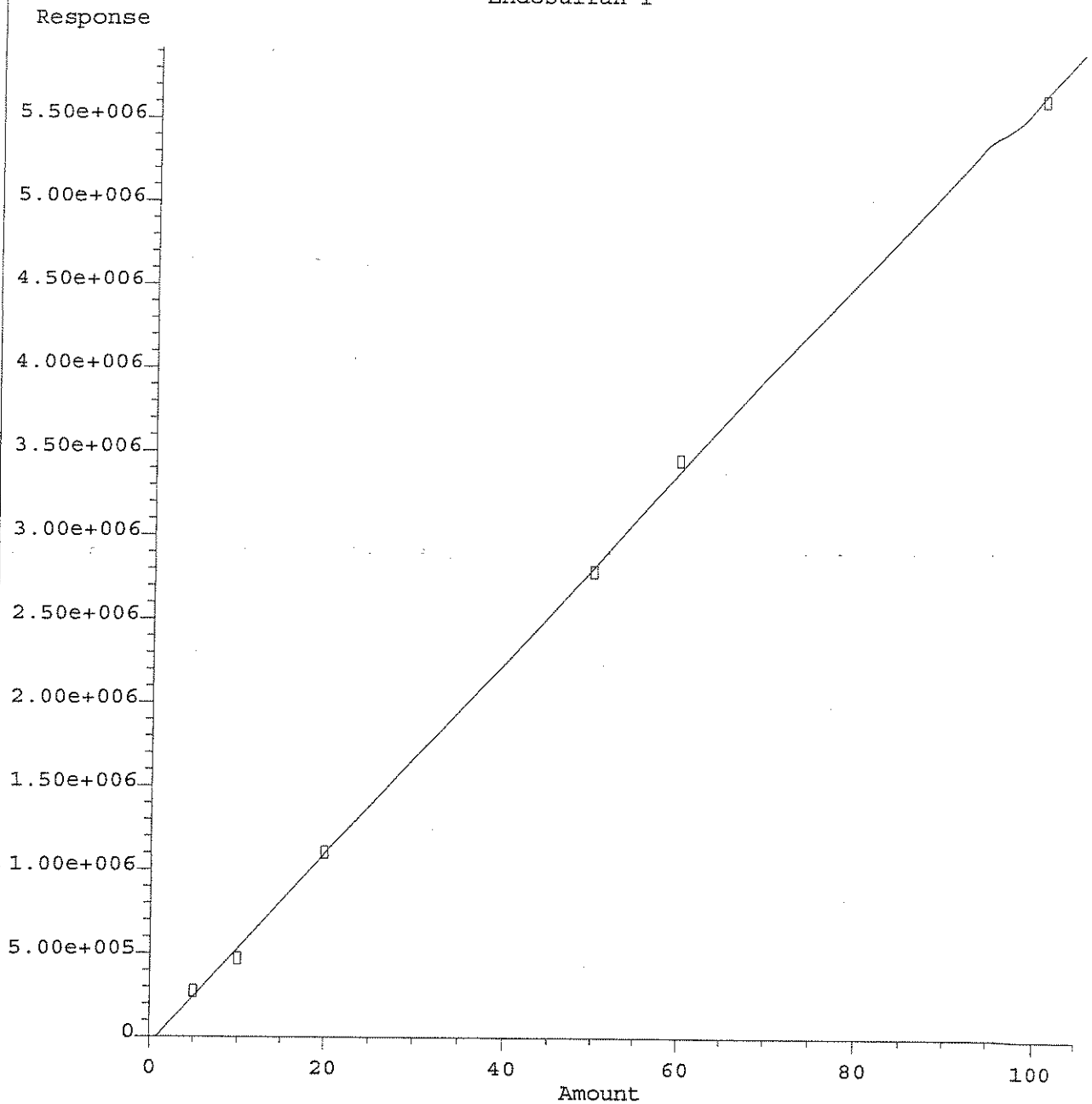


Response = 5.41e+004 \* Amt + 1.25e+004  
Coef of Det (r^2) = 0.998 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



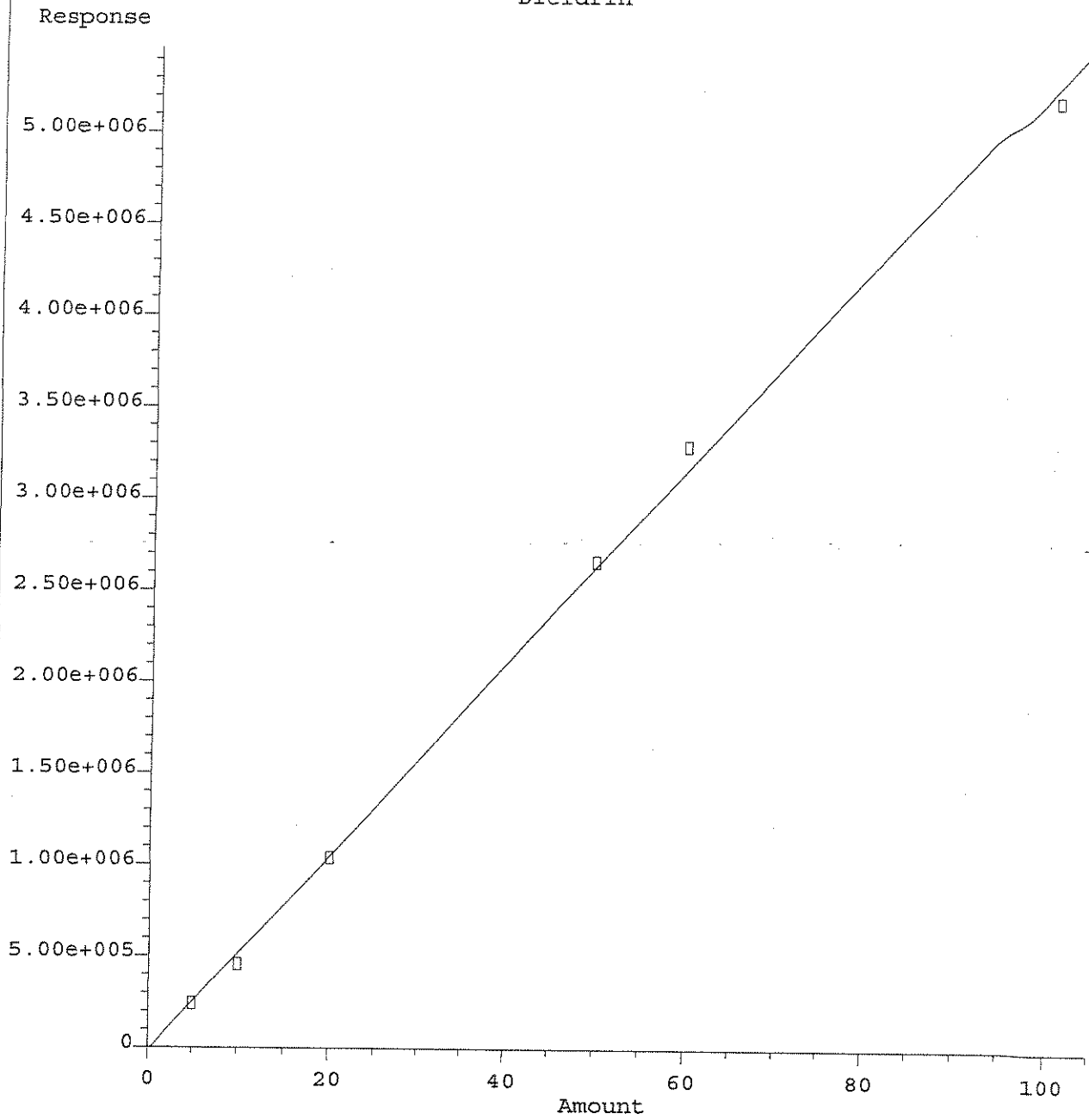
Endosulfan I



Response =  $5.71e+004 * Amt - 4.39e+004$   
Coef of Det ( $r^2$ ) = 0.999 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

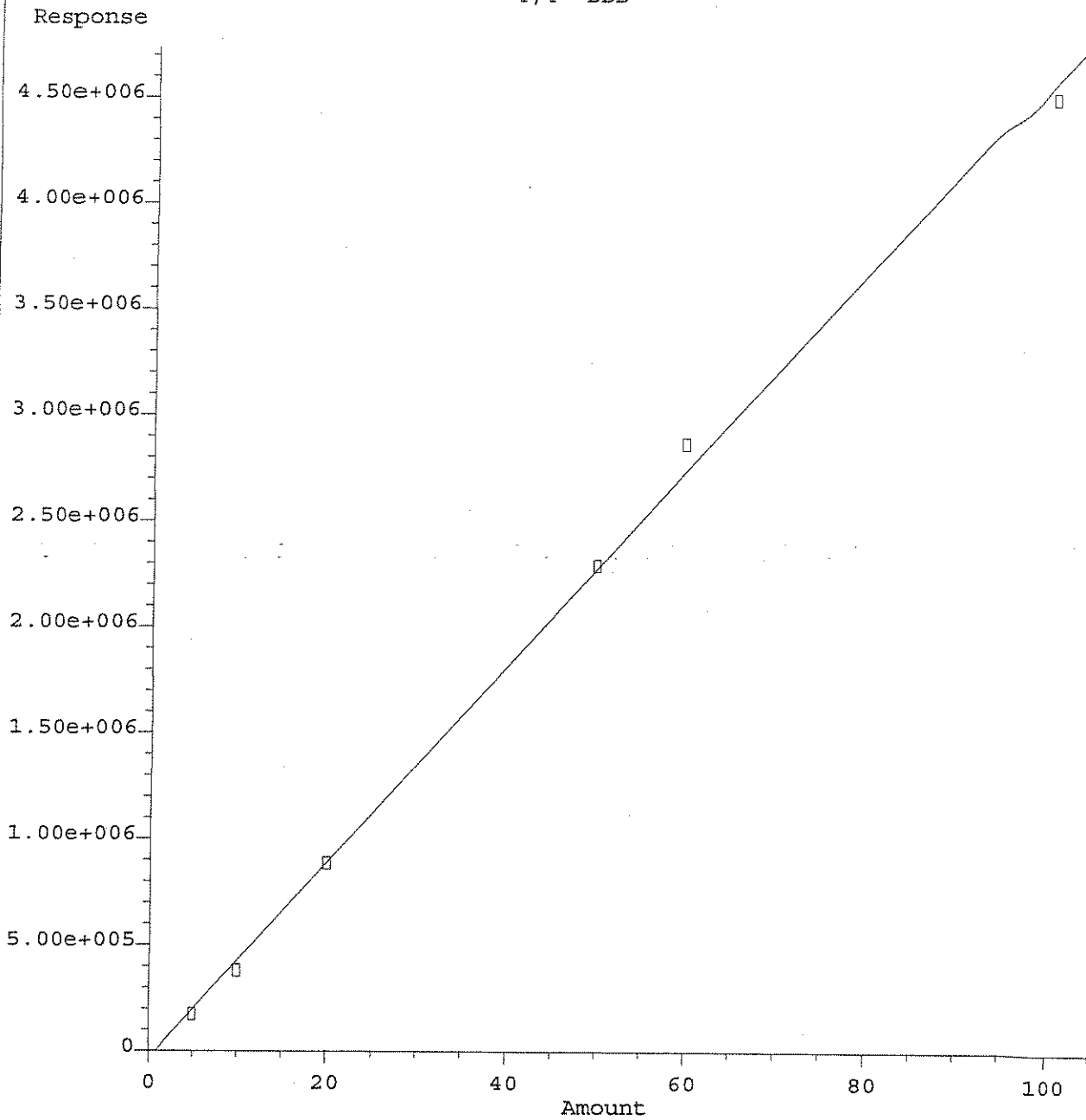
Dieldrin



Response = 5.30e+004 \* Amt - 1.65e+004  
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

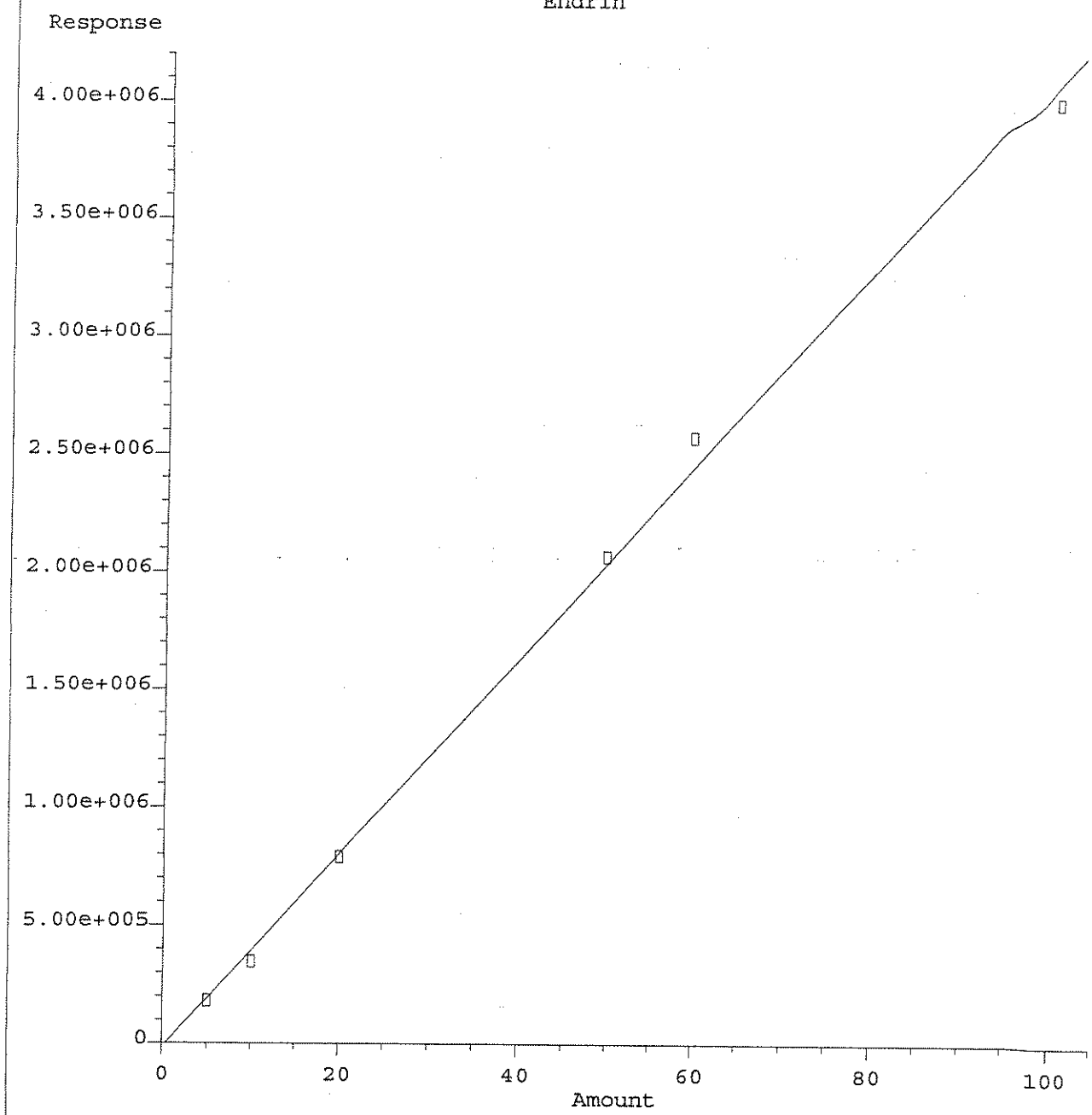
4,4'-DDD



Response =  $4.63e+004 * Amt - 3.85e+004$   
Coef of Det ( $r^2$ ) = 0.998    Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

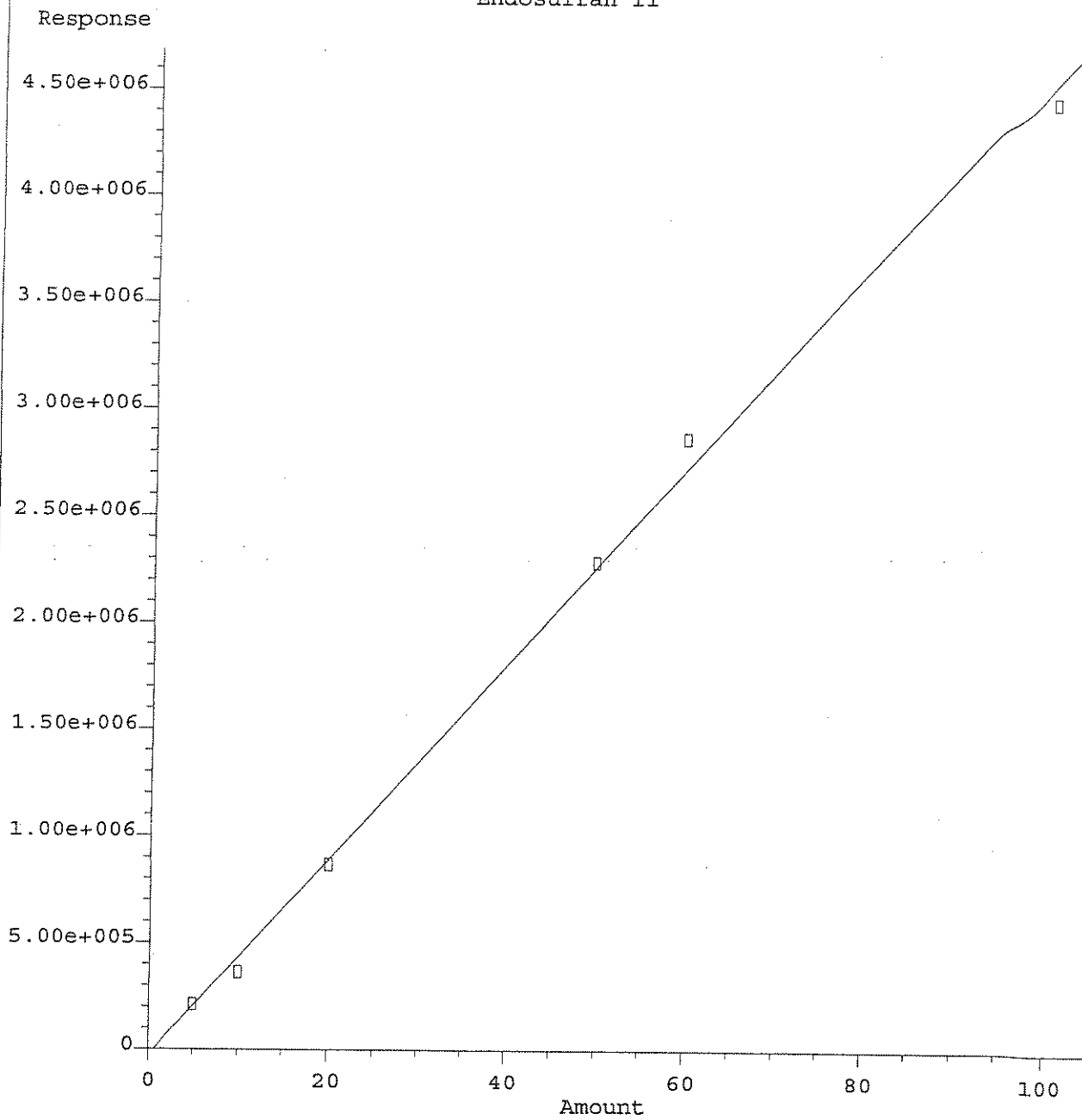
Endrin



Response =  $4.10e+004 * Amt - 1.48e+004$   
Coef of Det ( $r^2$ ) = 0.998    Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

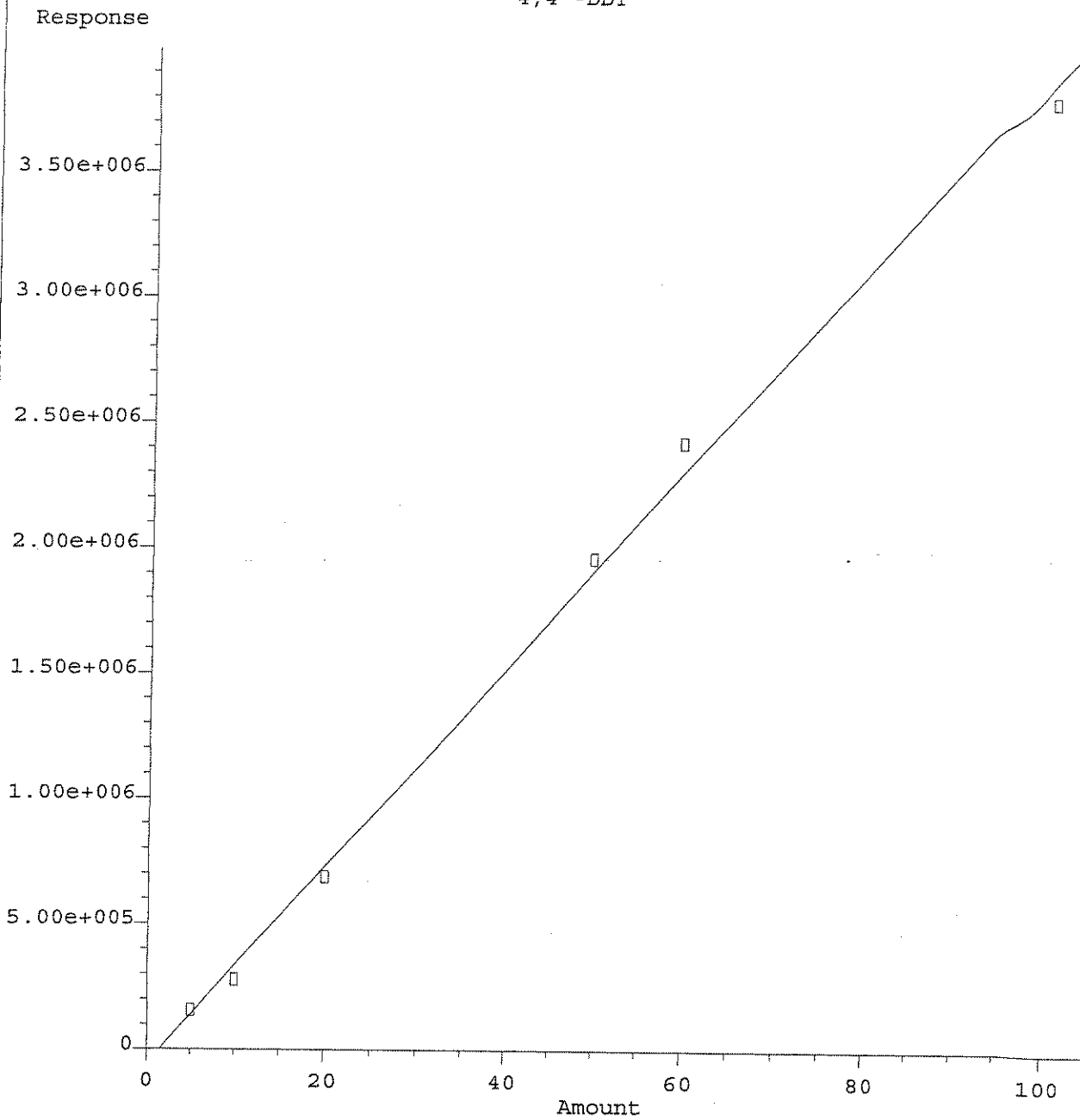
Endosulfan II



Response =  $4.58e+004 * Amt - 2.81e+004$   
Coef of Det ( $r^2$ ) = 0.997    Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

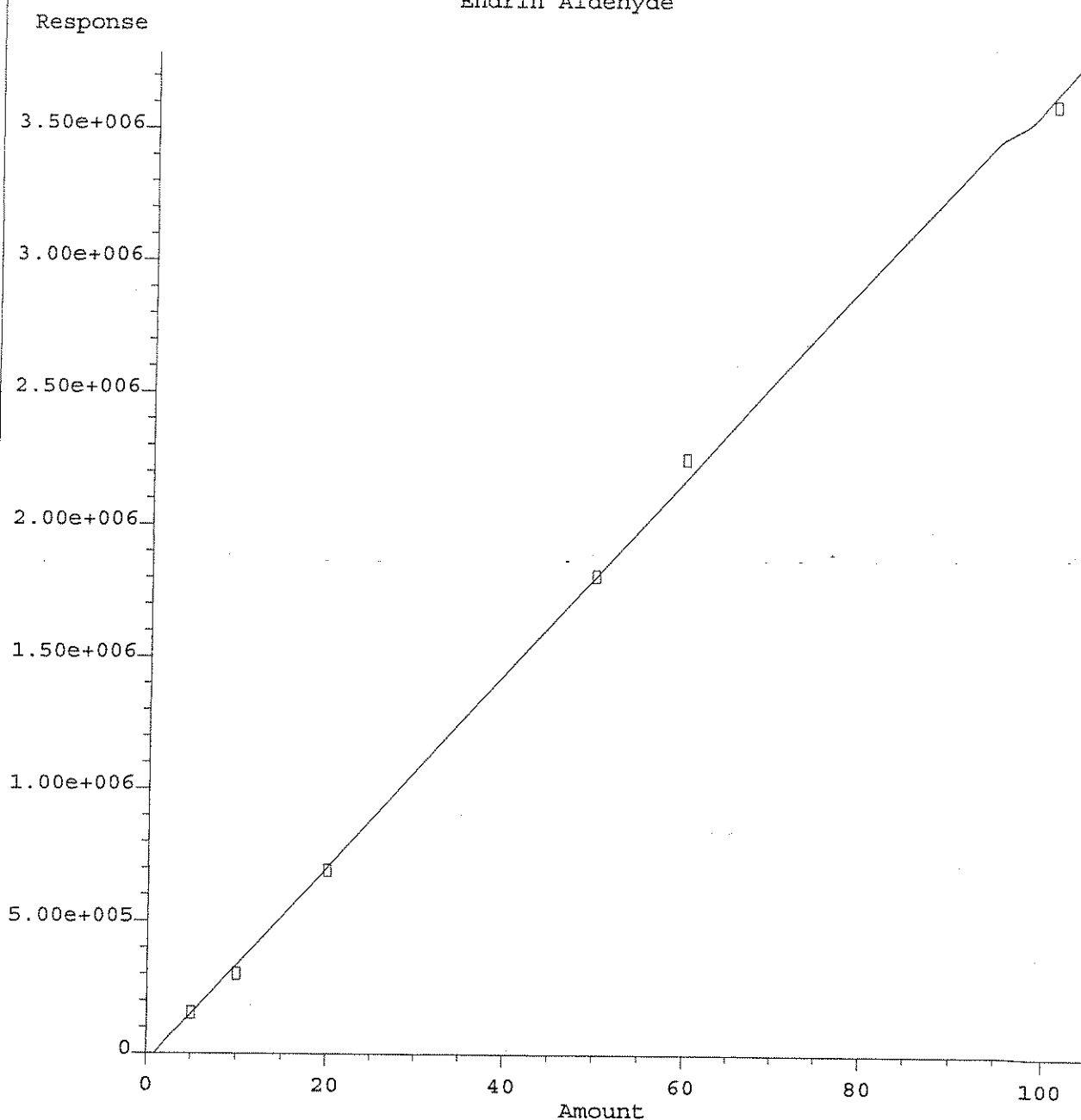
4,4'-DDT



Response = 3.94e+004 \* Amt - 5.79e+004  
Coef of Det (r^2) = 0.997 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

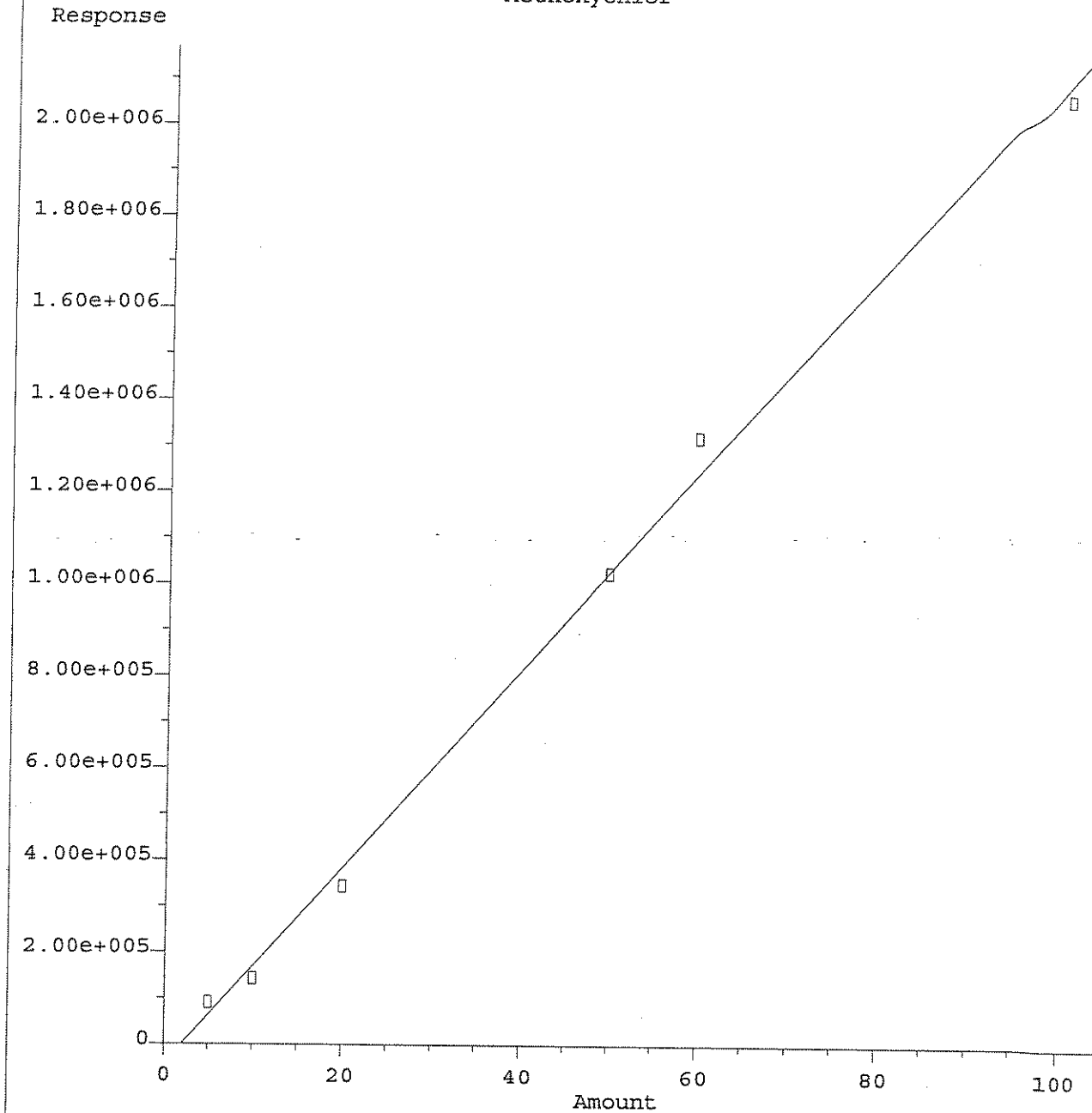
Endrin Aldehyde



Response =  $3.68e+004 * Amt - 3.48e+004$   
Coef of Det ( $r^2$ ) = 0.999 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

Methoxychlor

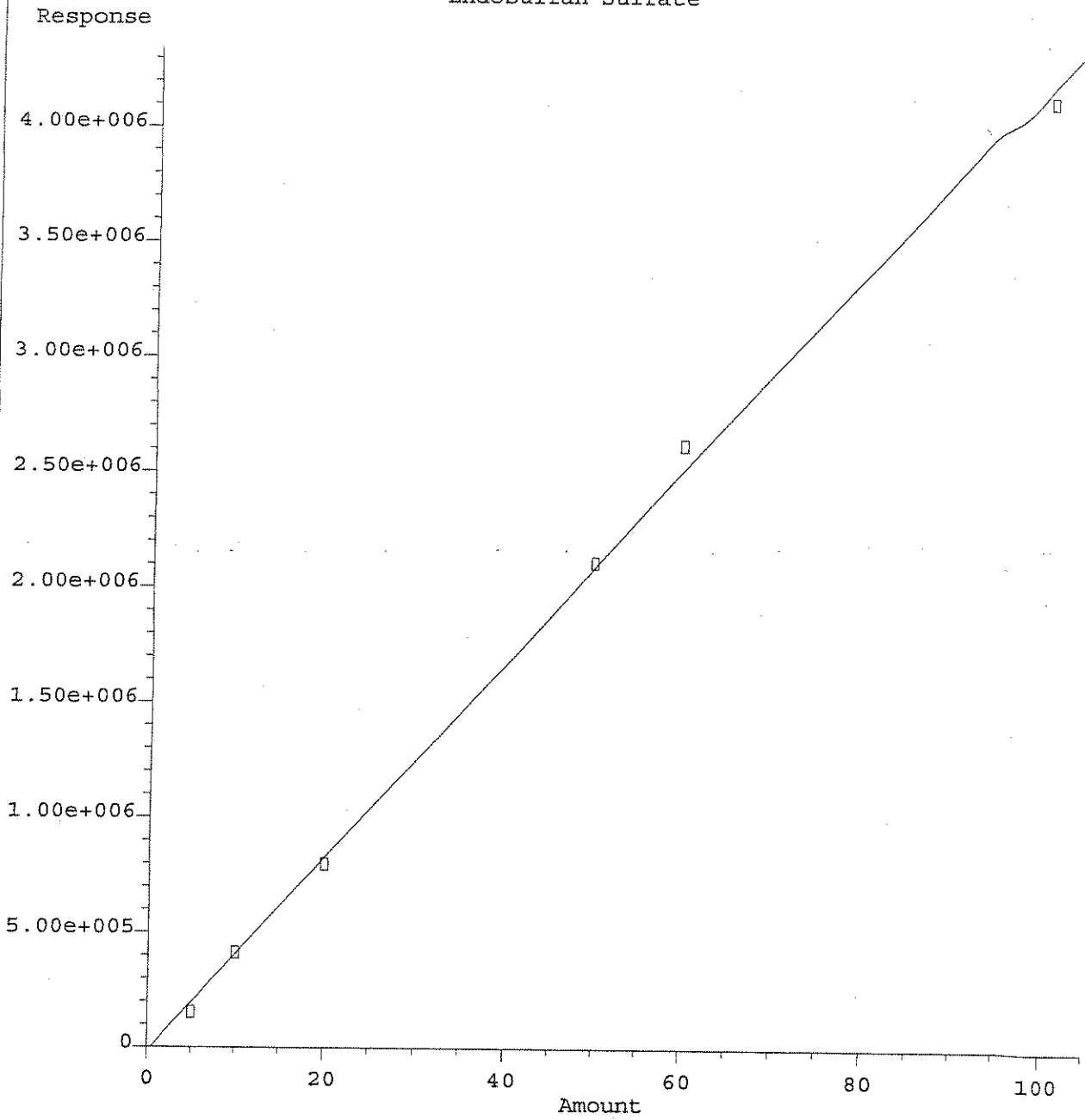


Response = 2.14e+004 \* Amt - 4.50e+004  
Coef of Det (r^2) = 0.997 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



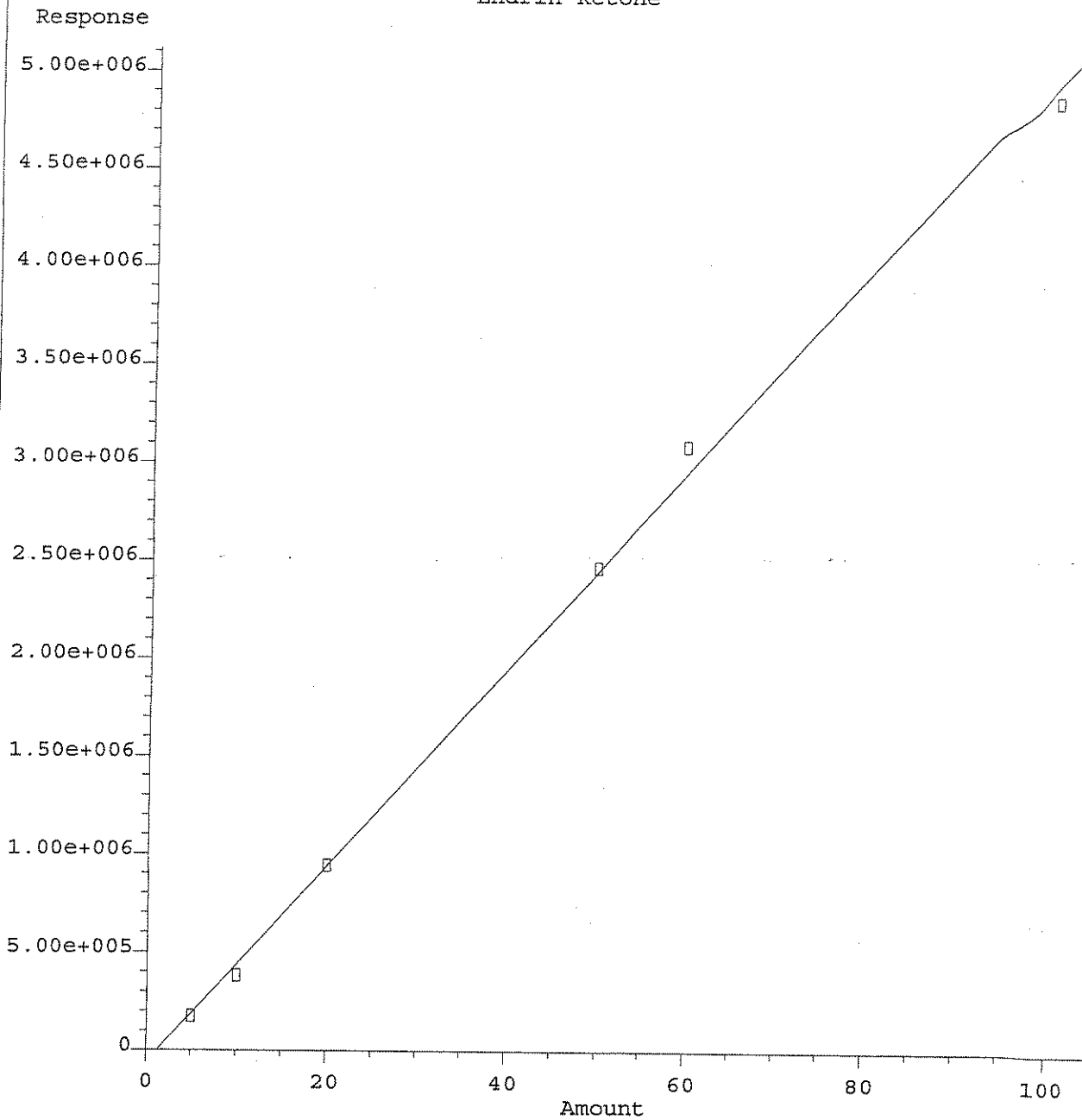
Endosulfan Sulfate



Response =  $4.22e+004 * Amt - 1.87e+004$   
Coef of Det ( $r^2$ ) = 0.998    Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

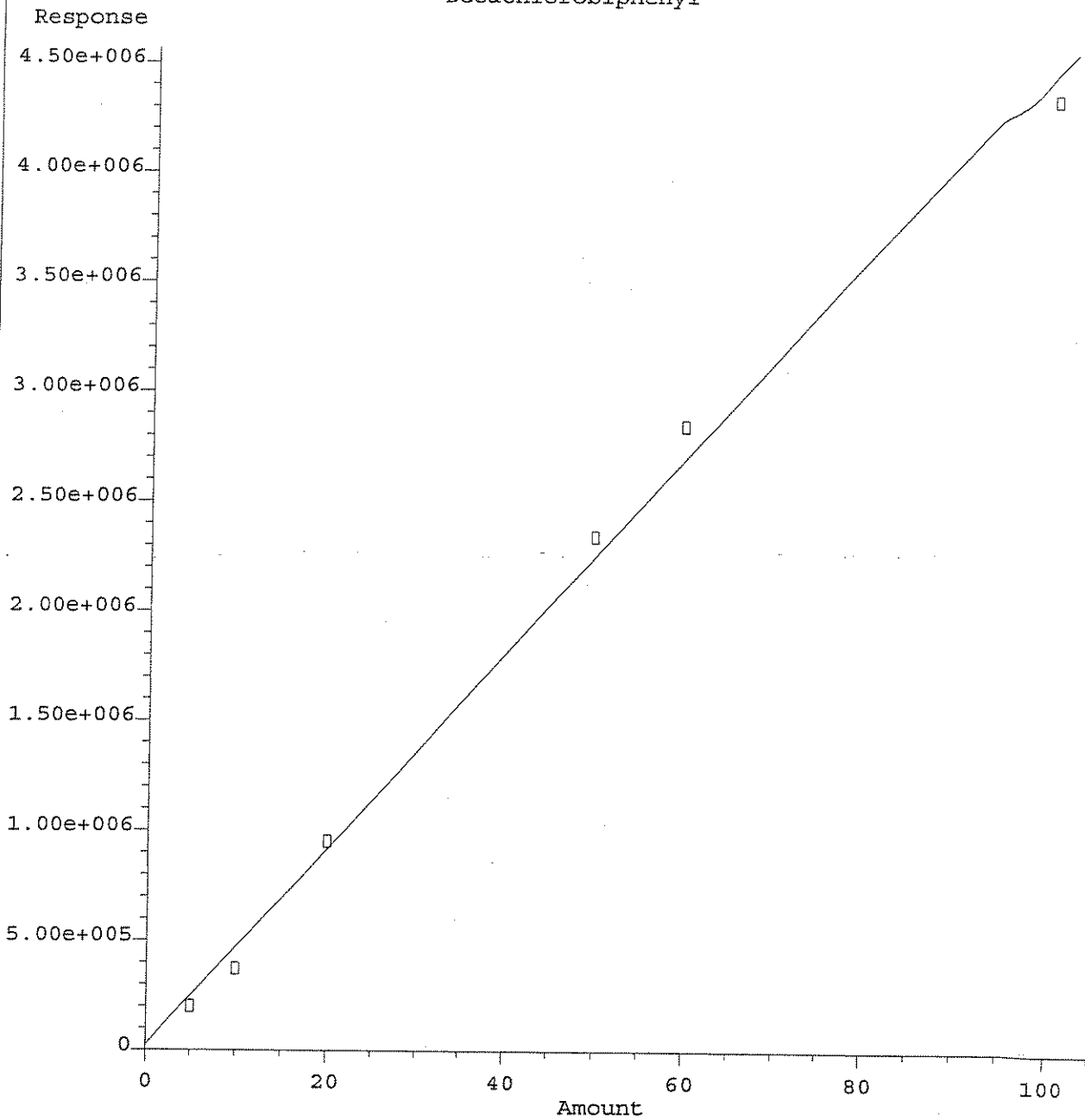
Endrin Ketone



Response = 5.02e+004 \* Amt - 6.32e+004  
Coef of Det (r^2) = 0.998 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

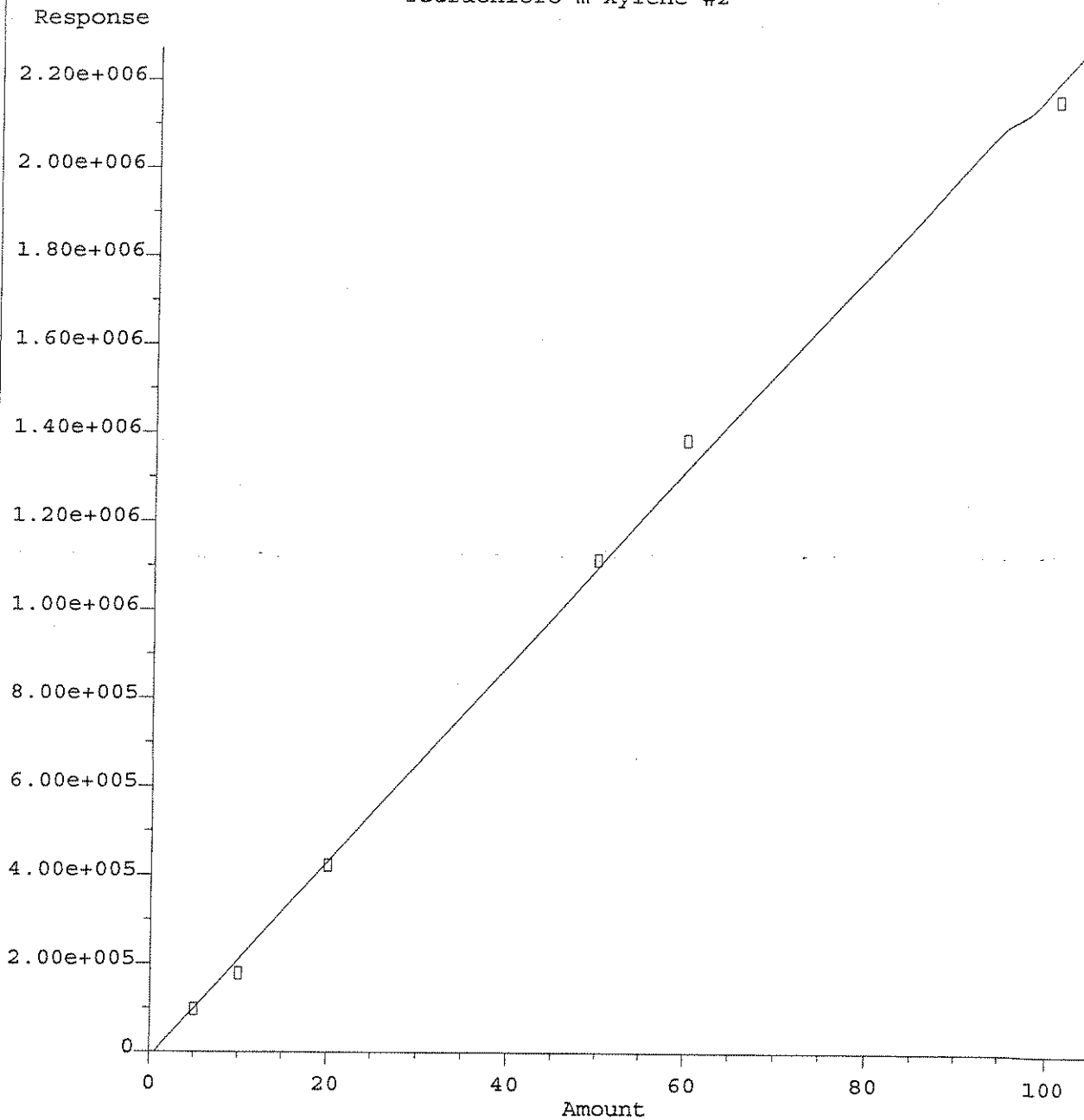
Decachlorobiphenyl



Response = 4.45e+004 \* Amt + 2.46e+004  
Coef of Det (r<sup>2</sup>) = 0.995 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

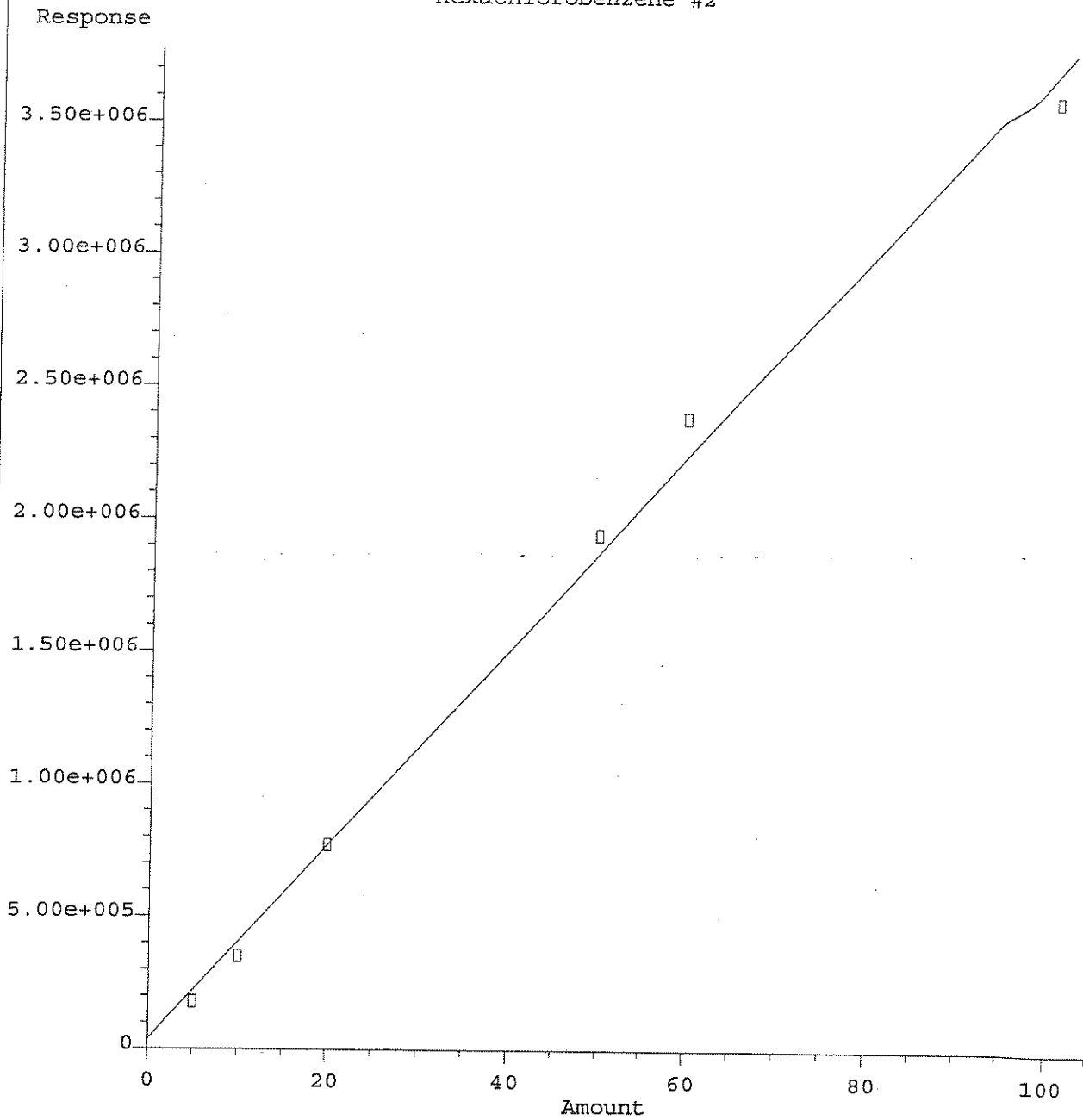
Tetrachloro-m-xylene #2



Response = 2.22e+004 \* Amt - 1.37e+004  
Coef of Det (r<sup>2</sup>) = 0.998 Curve Fit: Linear

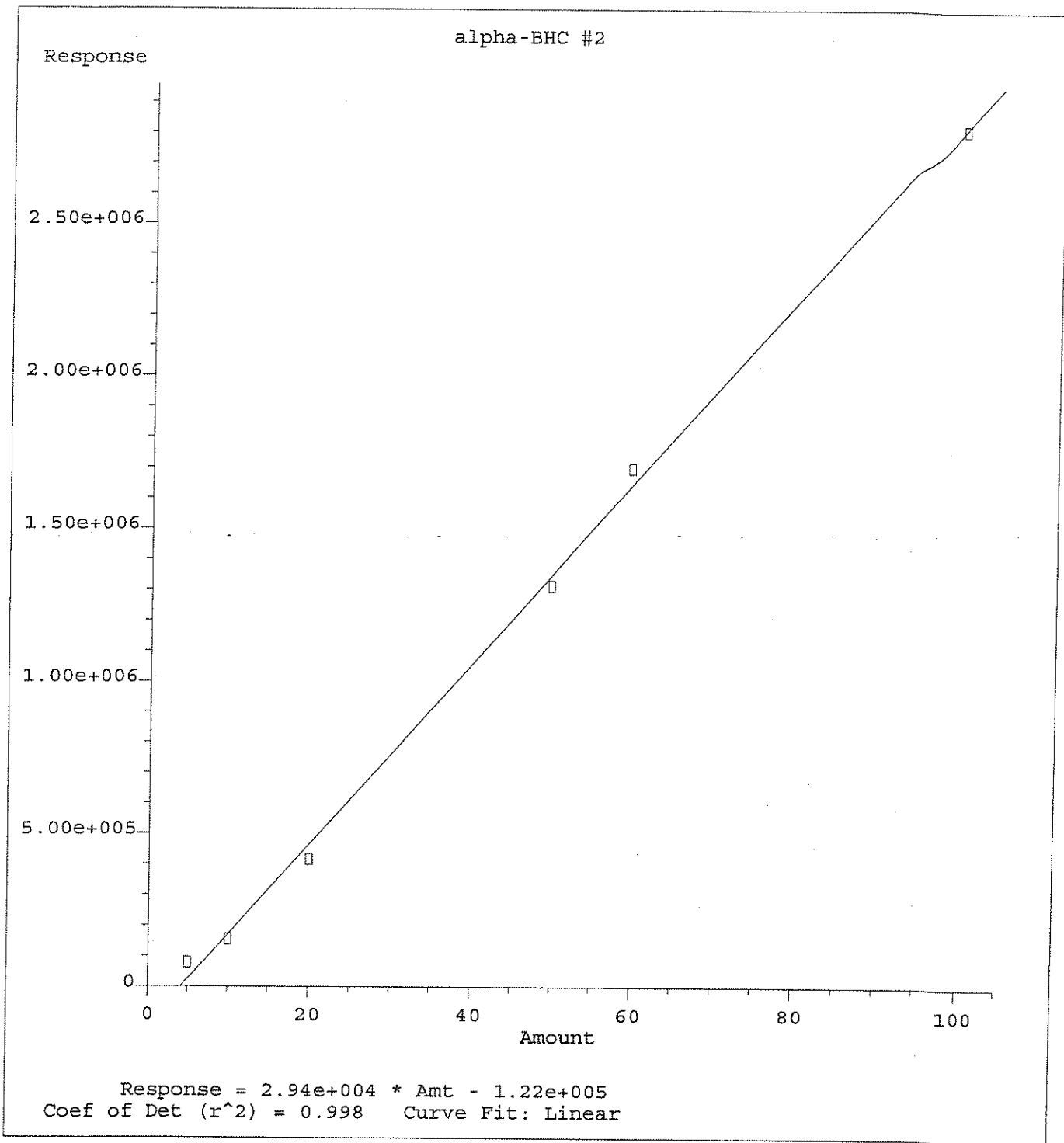
Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

Hexachlorobenzene #2



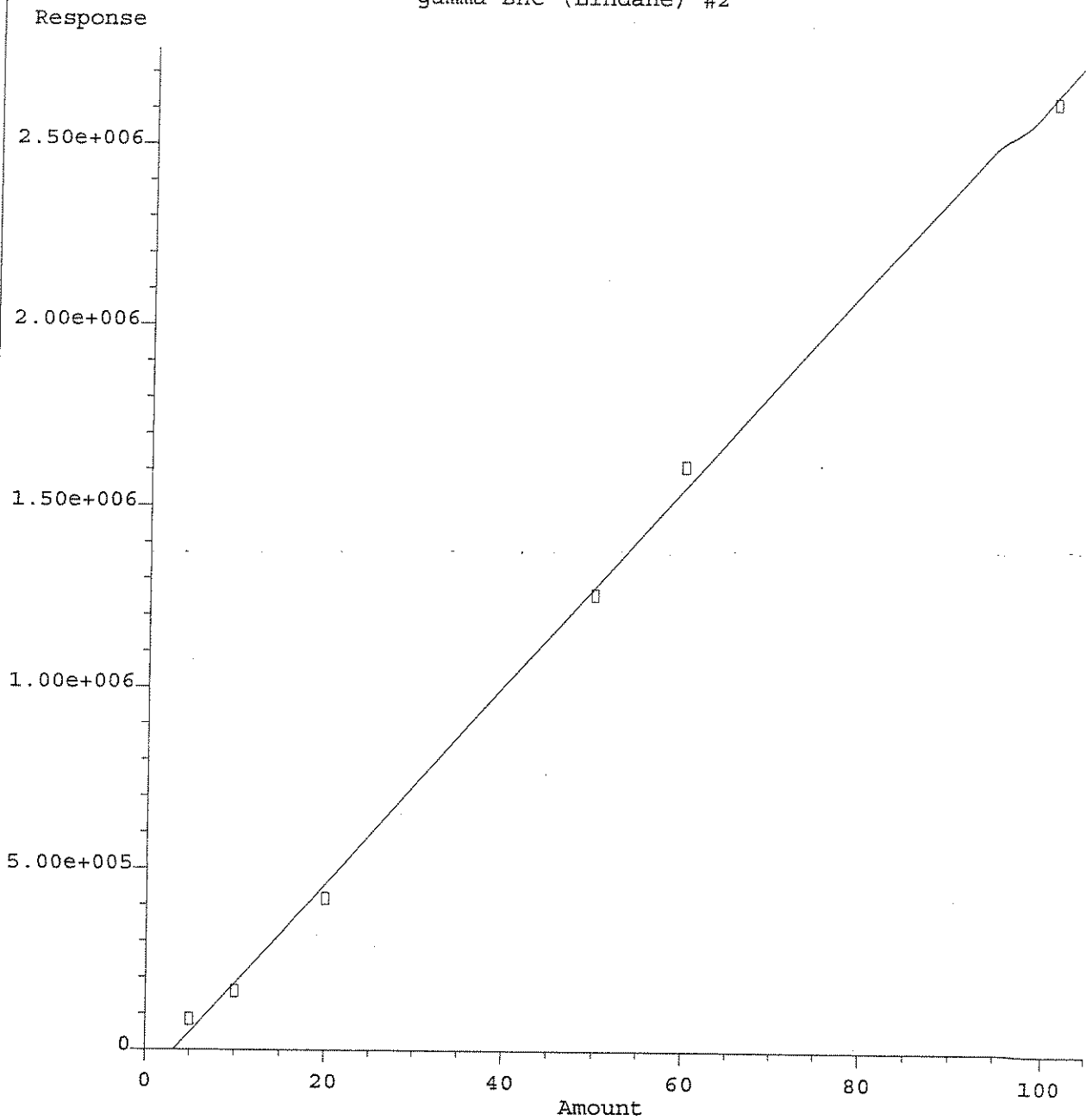
Response =  $3.67e+004 * Amt + 3.74e+004$   
Coef of Det ( $r^2$ ) = 0.995    Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



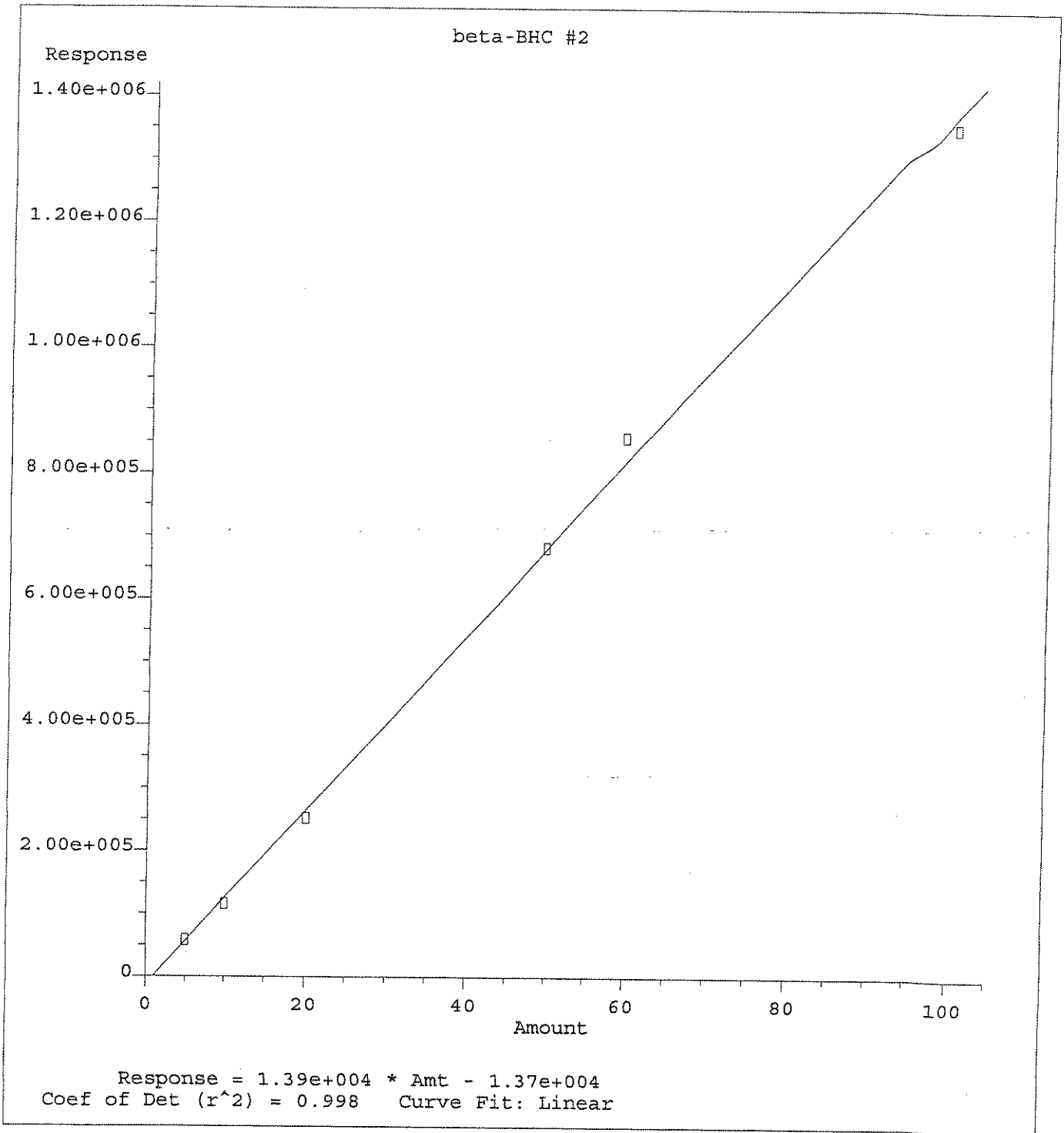
Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

gamma-BHC (Lindane) #2



Response =  $2.74e+004 * Amt - 9.08e+004$   
Coef of Det ( $r^2$ ) = 0.998    Curve Fit: Linear

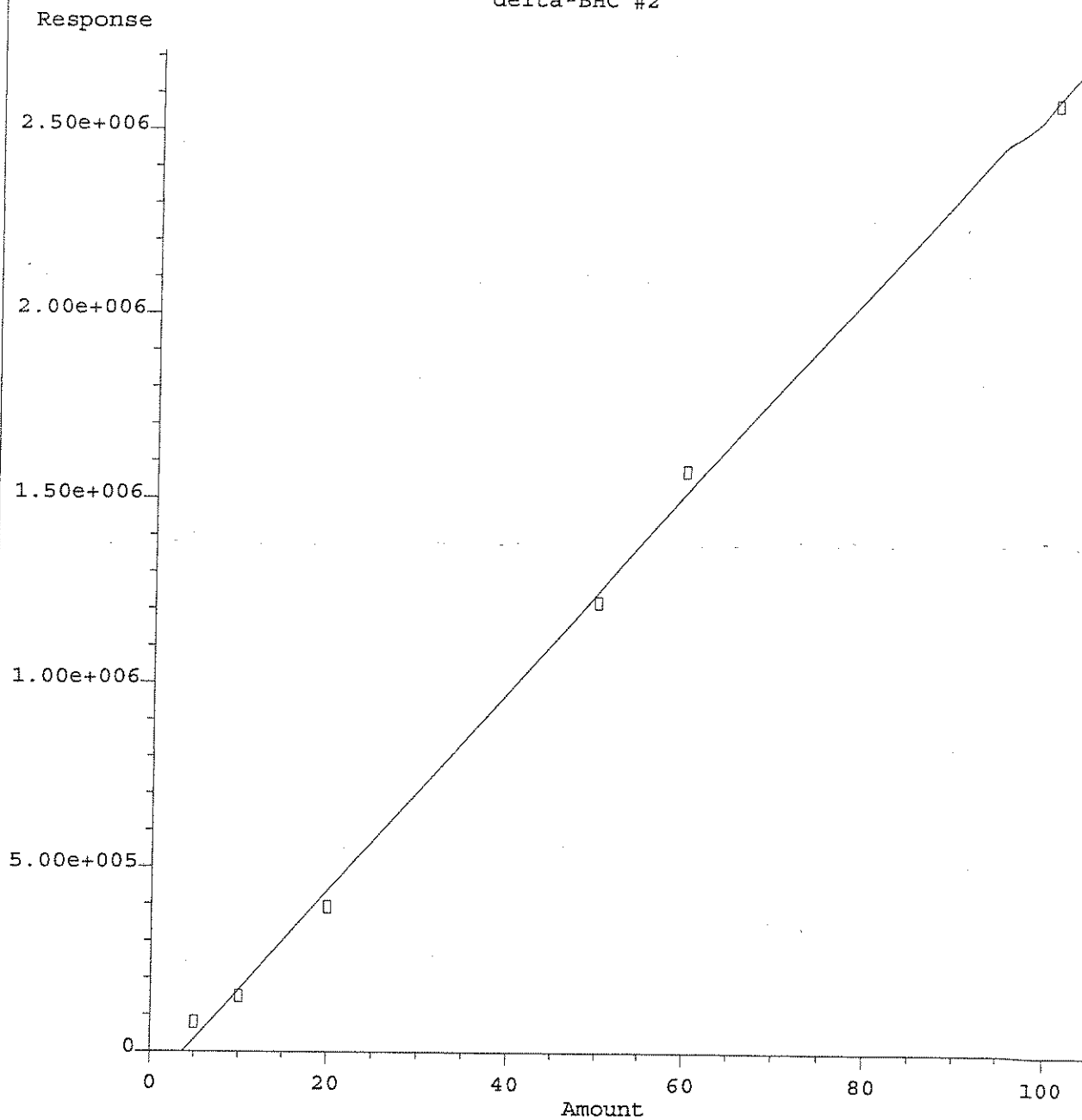
Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



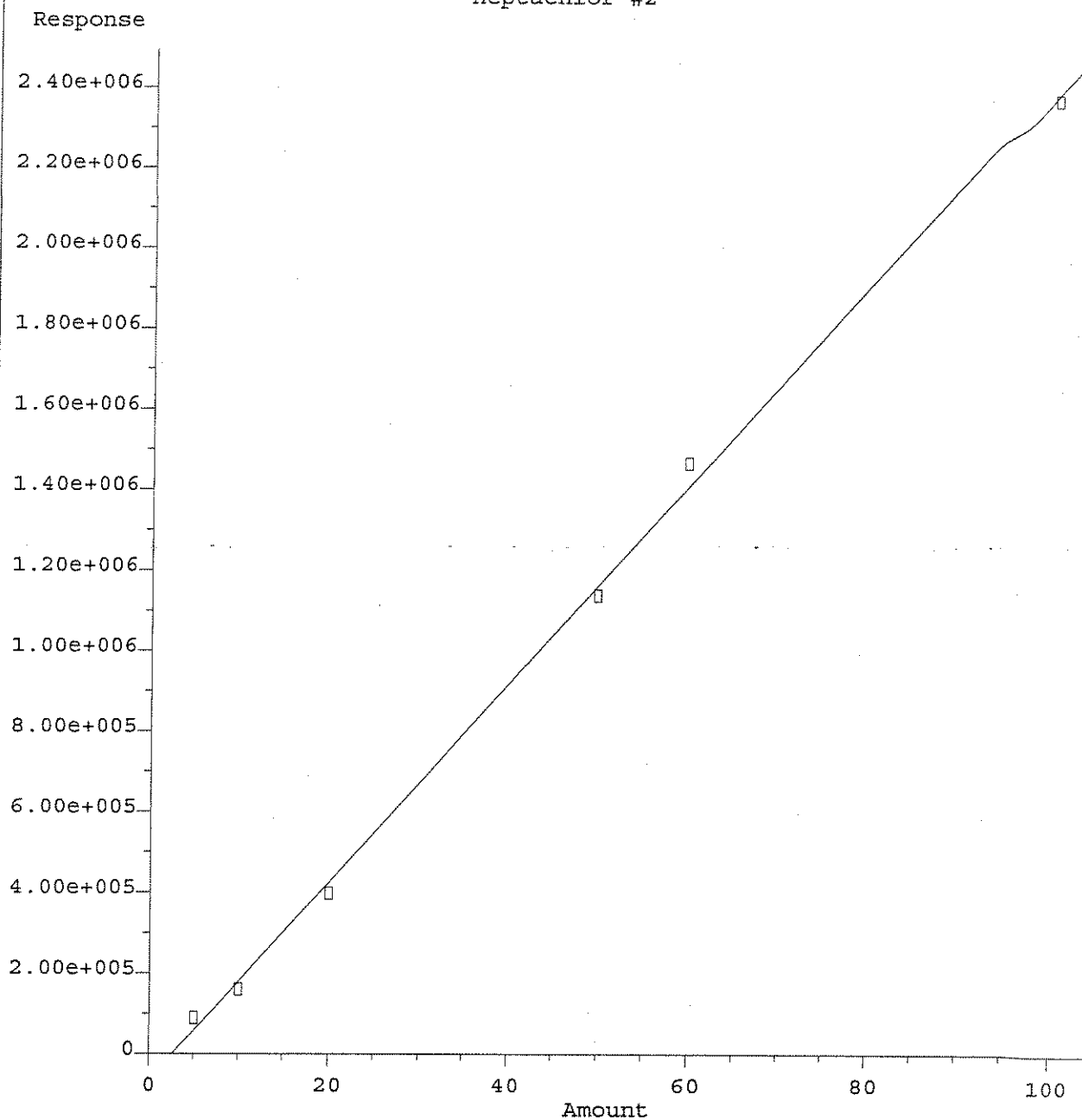
delta-BHC #2



Response =  $2.70e+004 * Amt - 1.02e+005$   
Coef of Det ( $r^2$ ) = 0.998    Curve Fit: Linear

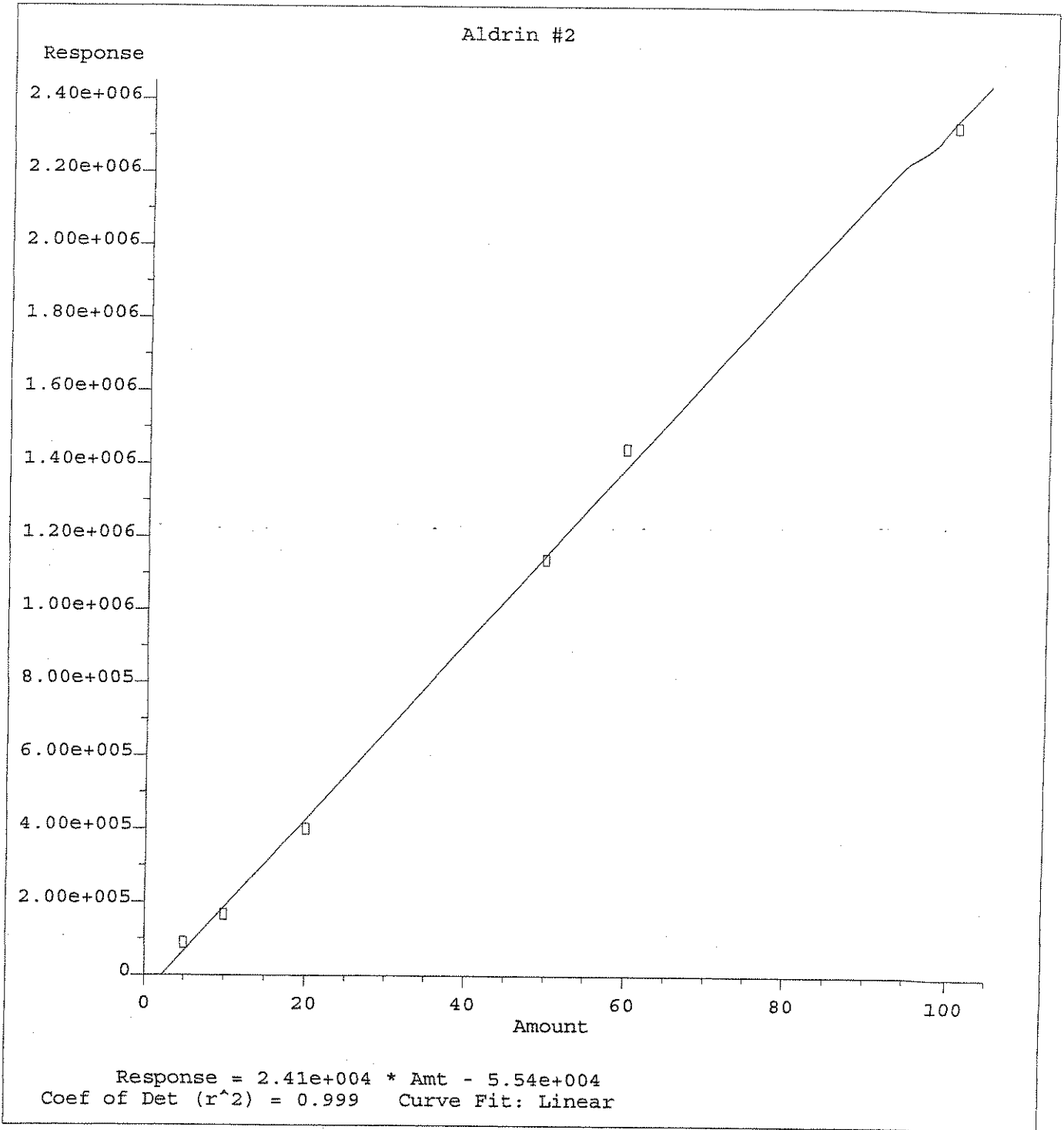
Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

Heptachlor #2



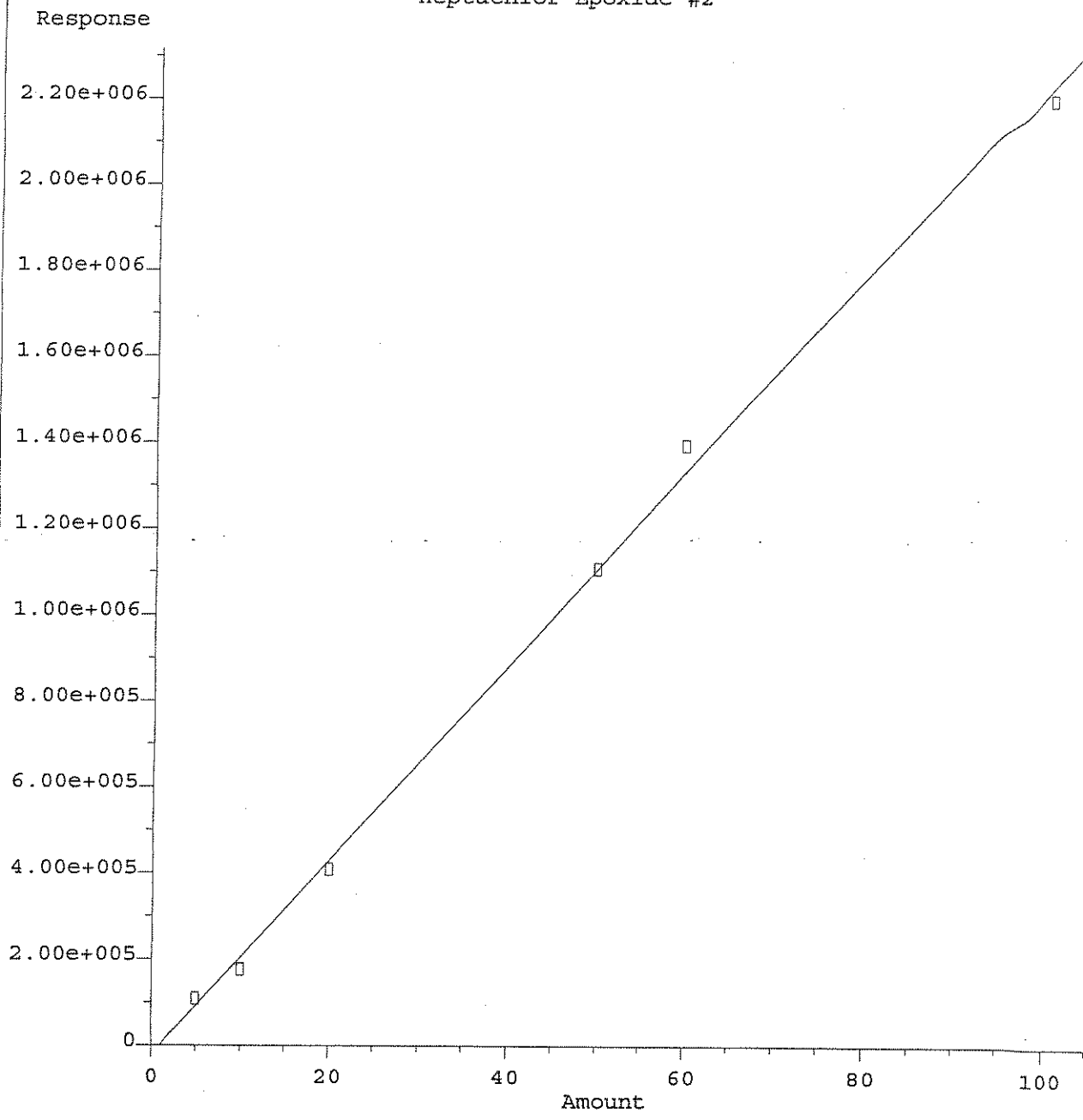
Response = 2.46e+004 \* Amt - 6.54e+004  
Coef of Det (r^2) = 0.998 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

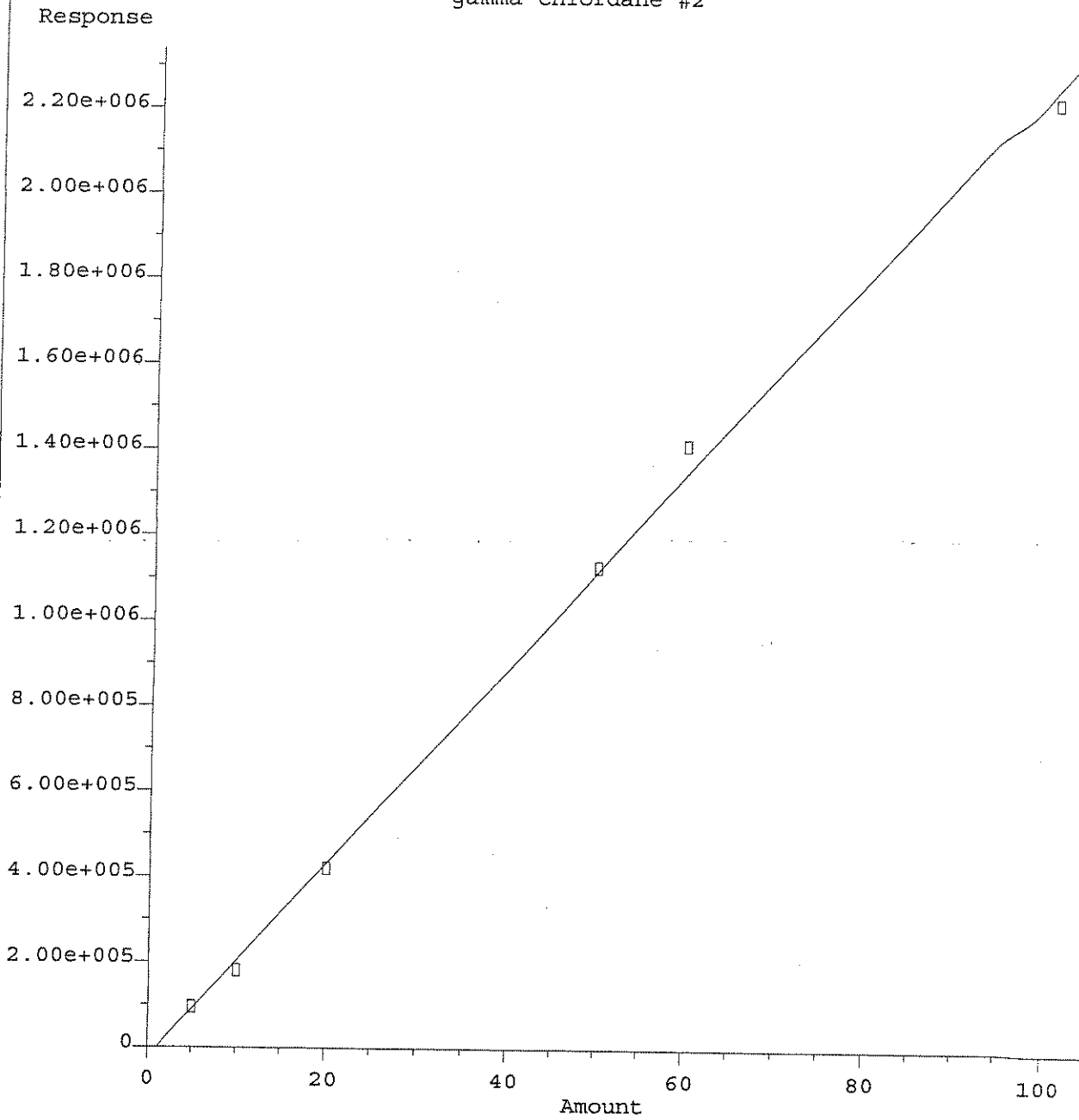
Heptachlor Epoxide #2



Response = 2.26e+004 \* Amt - 2.21e+004  
Coef of Det (r^2) = 0.998    Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

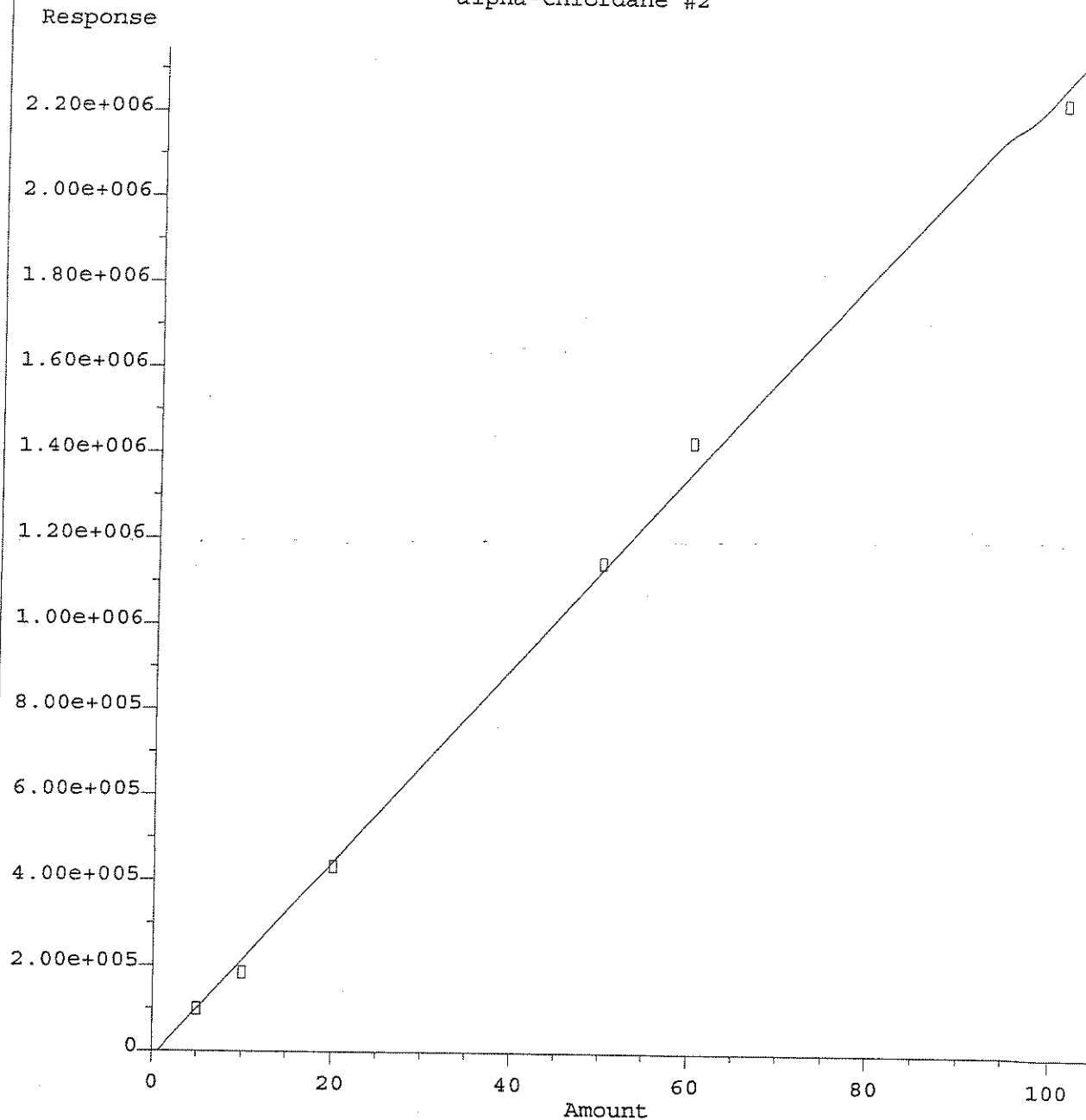
gamma-Chlordane #2



Response = 2.29e+004 \* Amt - 2.41e+004  
Coef of Det (r<sup>2</sup>) = 0.998 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

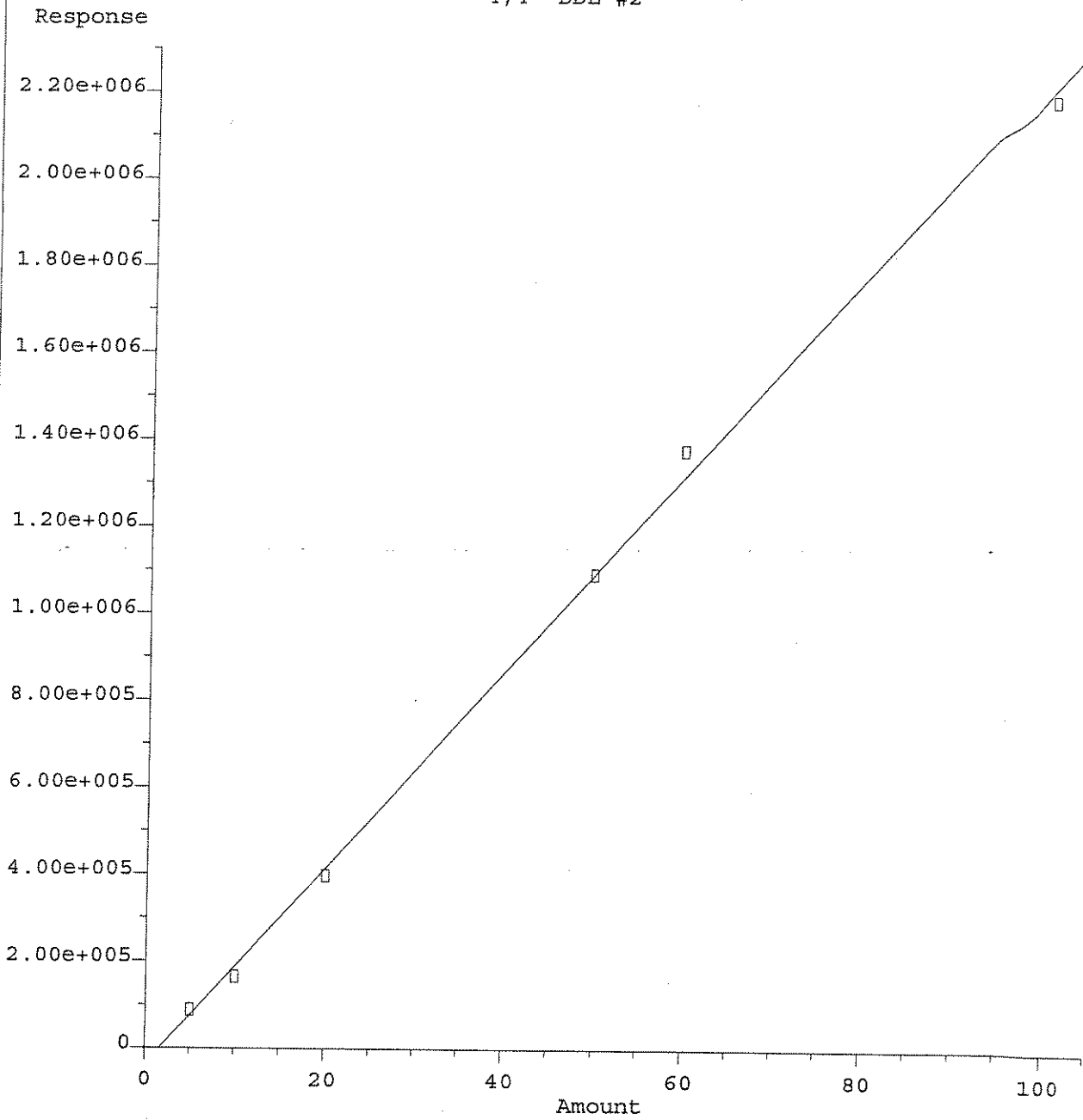
alpha-Chlordane #2



Response = 2.29e+004 \* Amt - 1.60e+004  
Coef of Det (r^2) = 0.998 Curve Fit: Linear

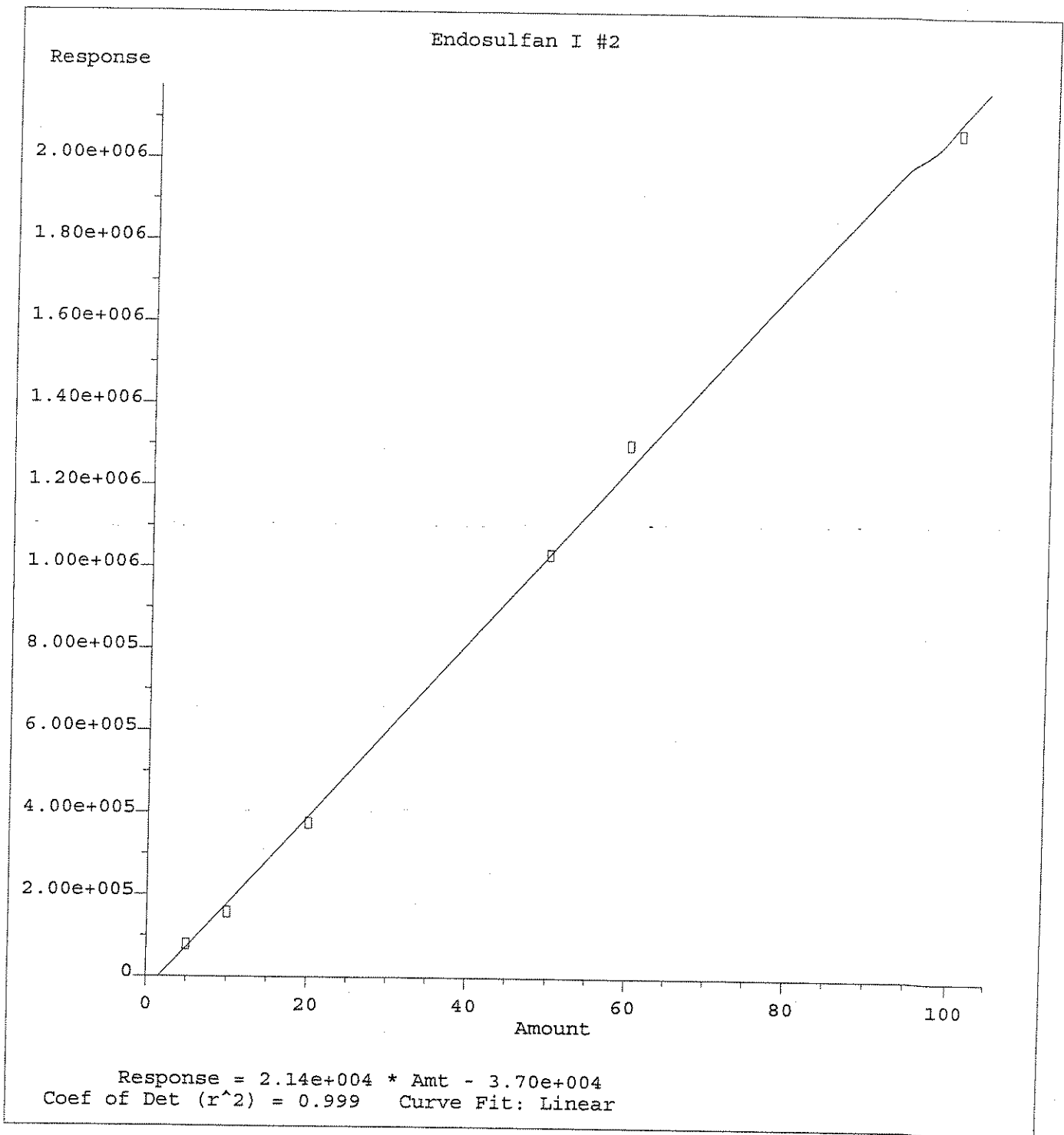
Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

4,4'-DDE #2



Response =  $2.26e+004 * Amt - 3.79e+004$   
Coef of Det ( $r^2$ ) = 0.998    Curve Fit: Linear

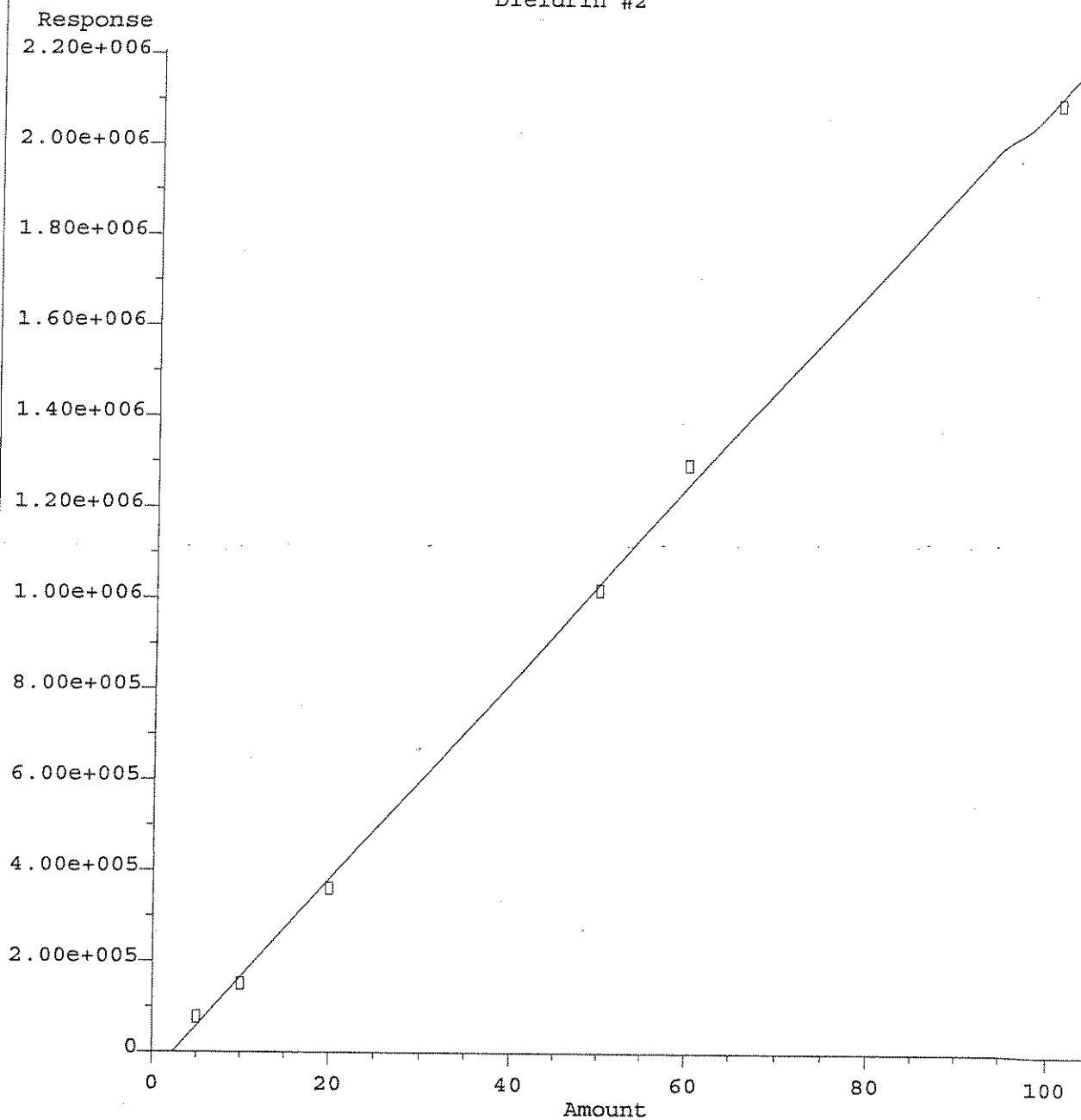
Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

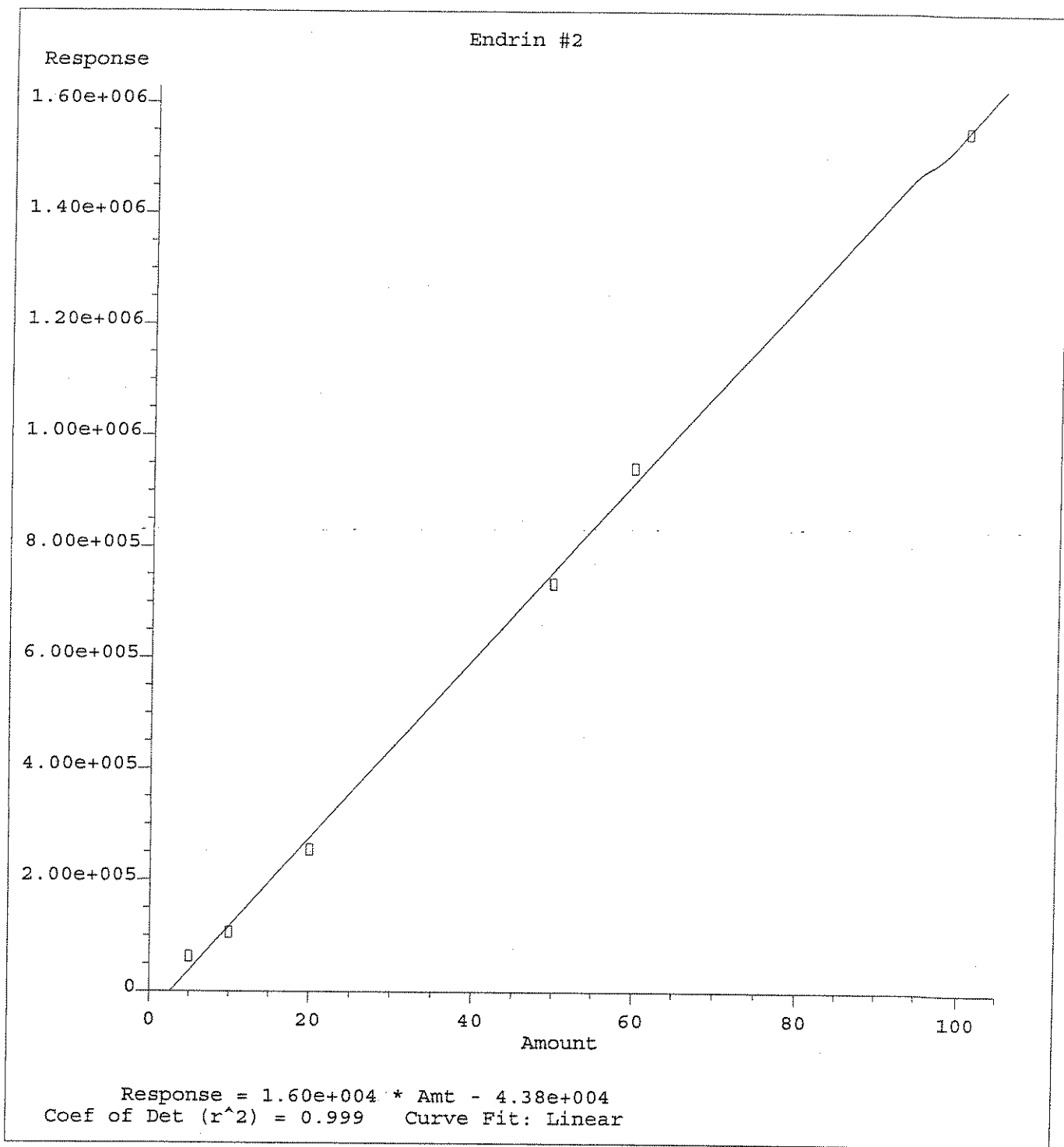


Dieldrin #2



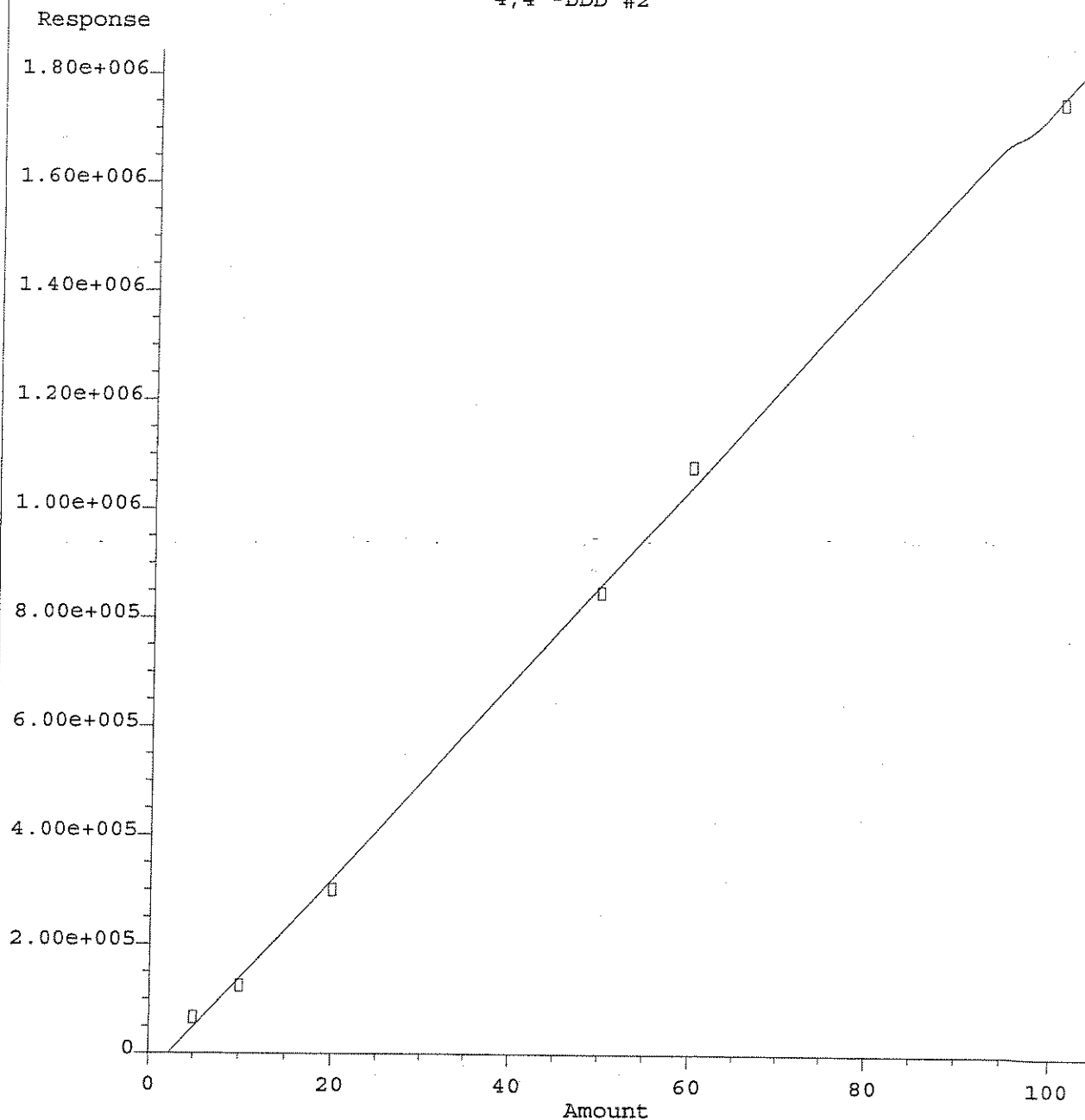
Response =  $2.17e+004 * Amt - 5.14e+004$   
Coef of Det ( $r^2$ ) = 0.999 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

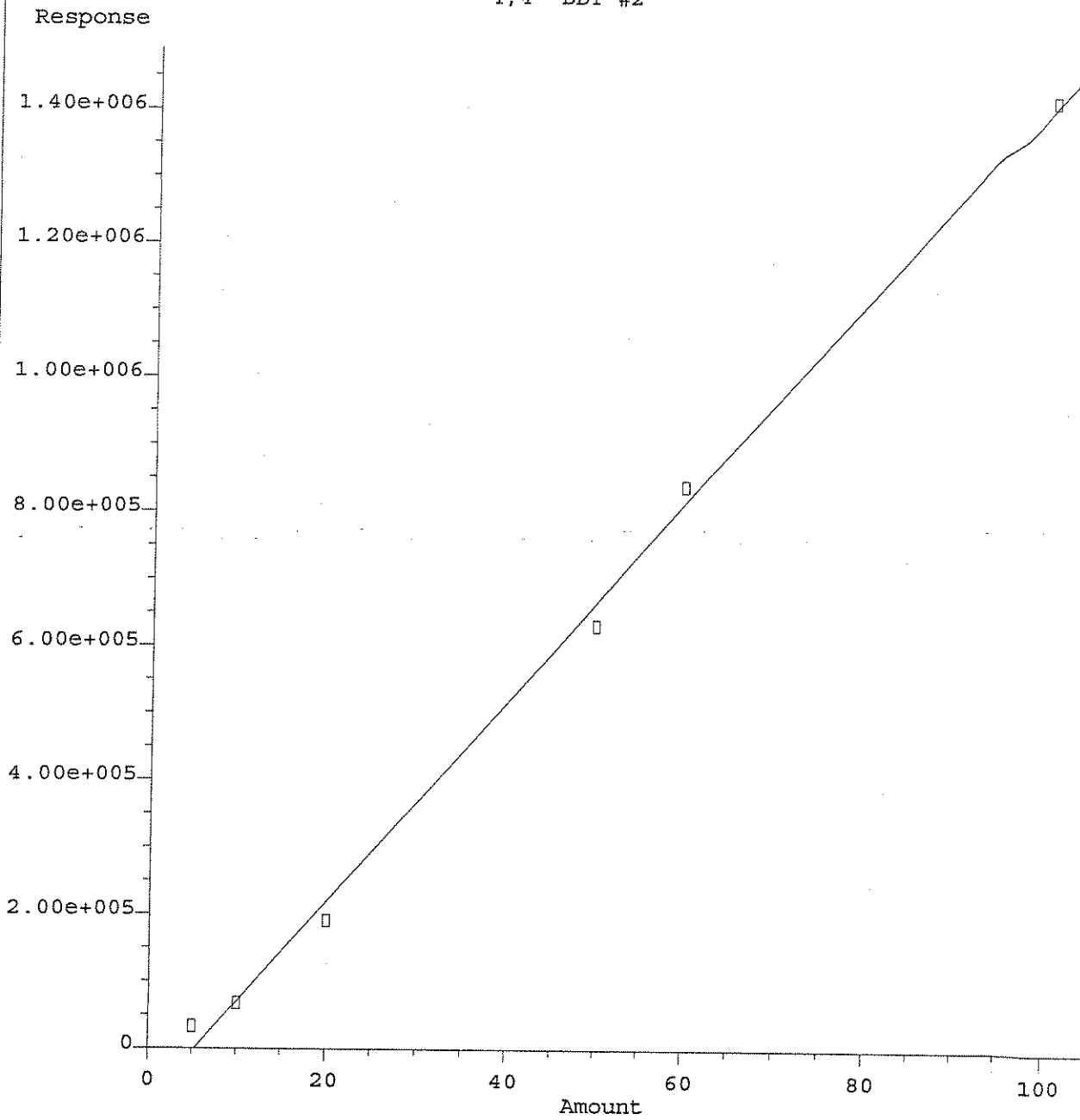
4,4'-DDD #2



Response =  $1.81e+004 * Amt - 4.39e+004$   
Coef of Det ( $r^2$ ) = 0.999 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

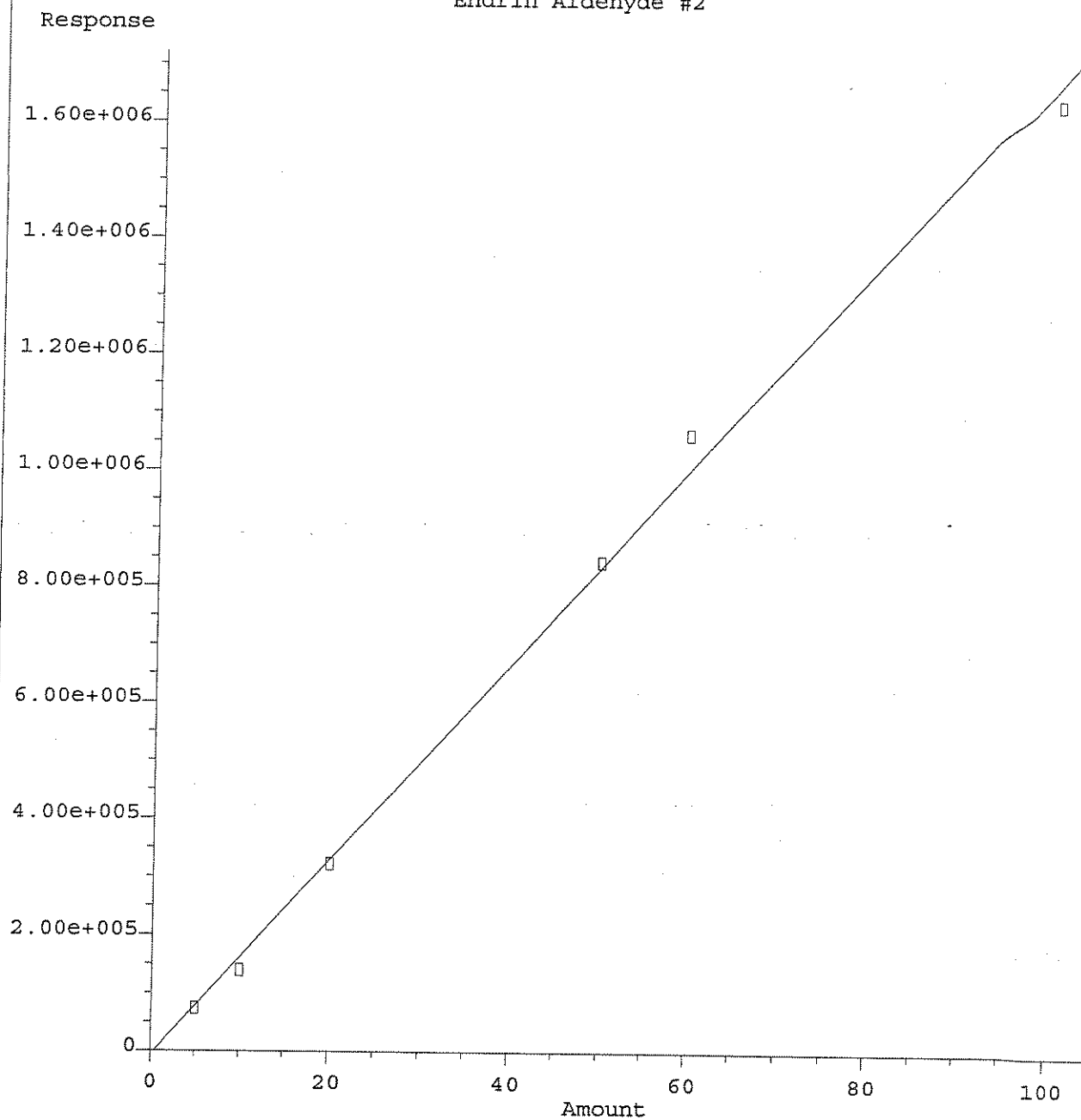
4,4'-DDT #2



Response = 1.49e+004 \* Amt - 7.82e+004  
Coef of Det (r<sup>2</sup>) = 0.997 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

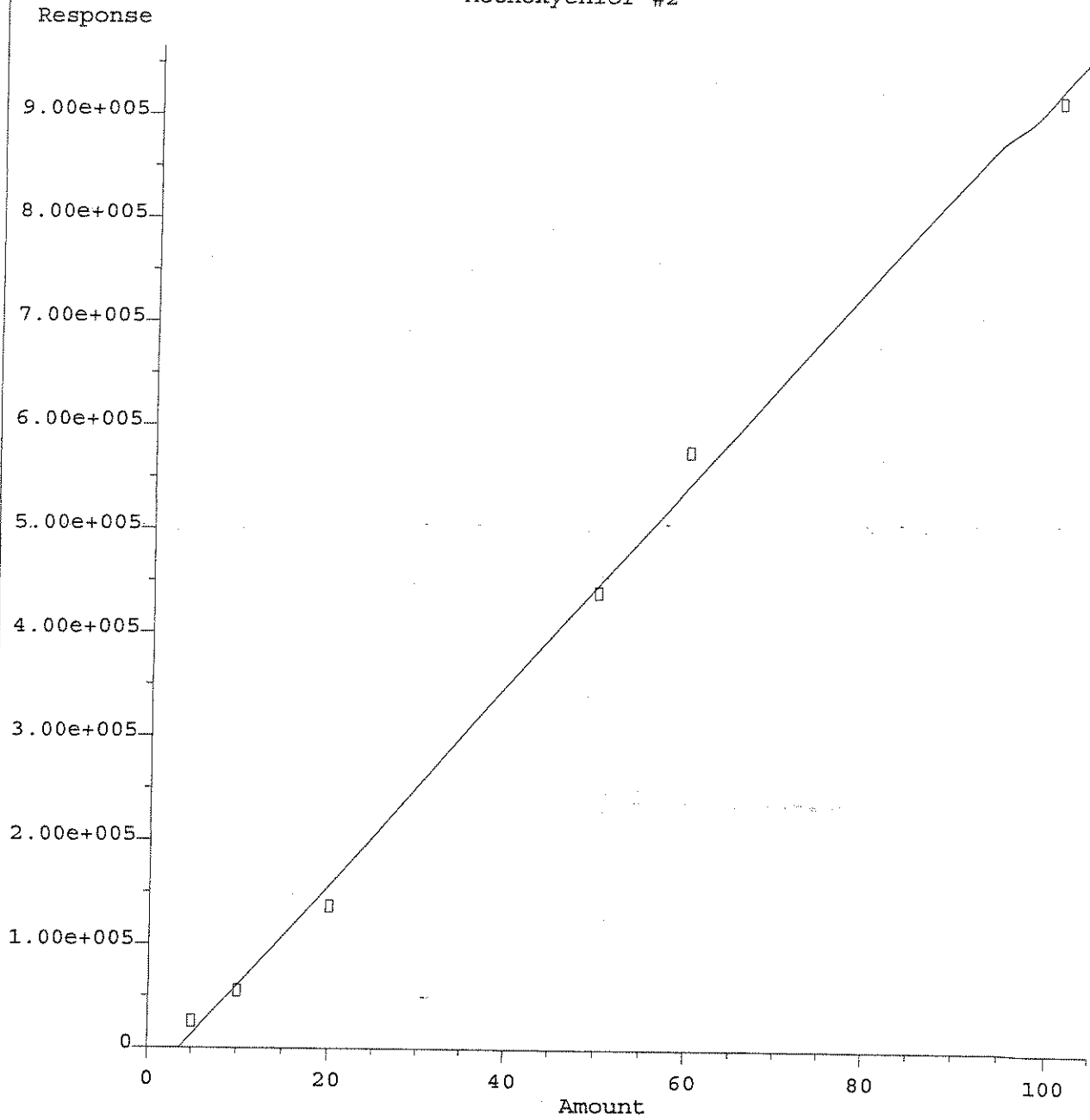
Endrin Aldehyde #2



Response =  $1.68e+004 * Amt - 7.41e+003$   
Coef of Det ( $r^2$ ) = 0.997    Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

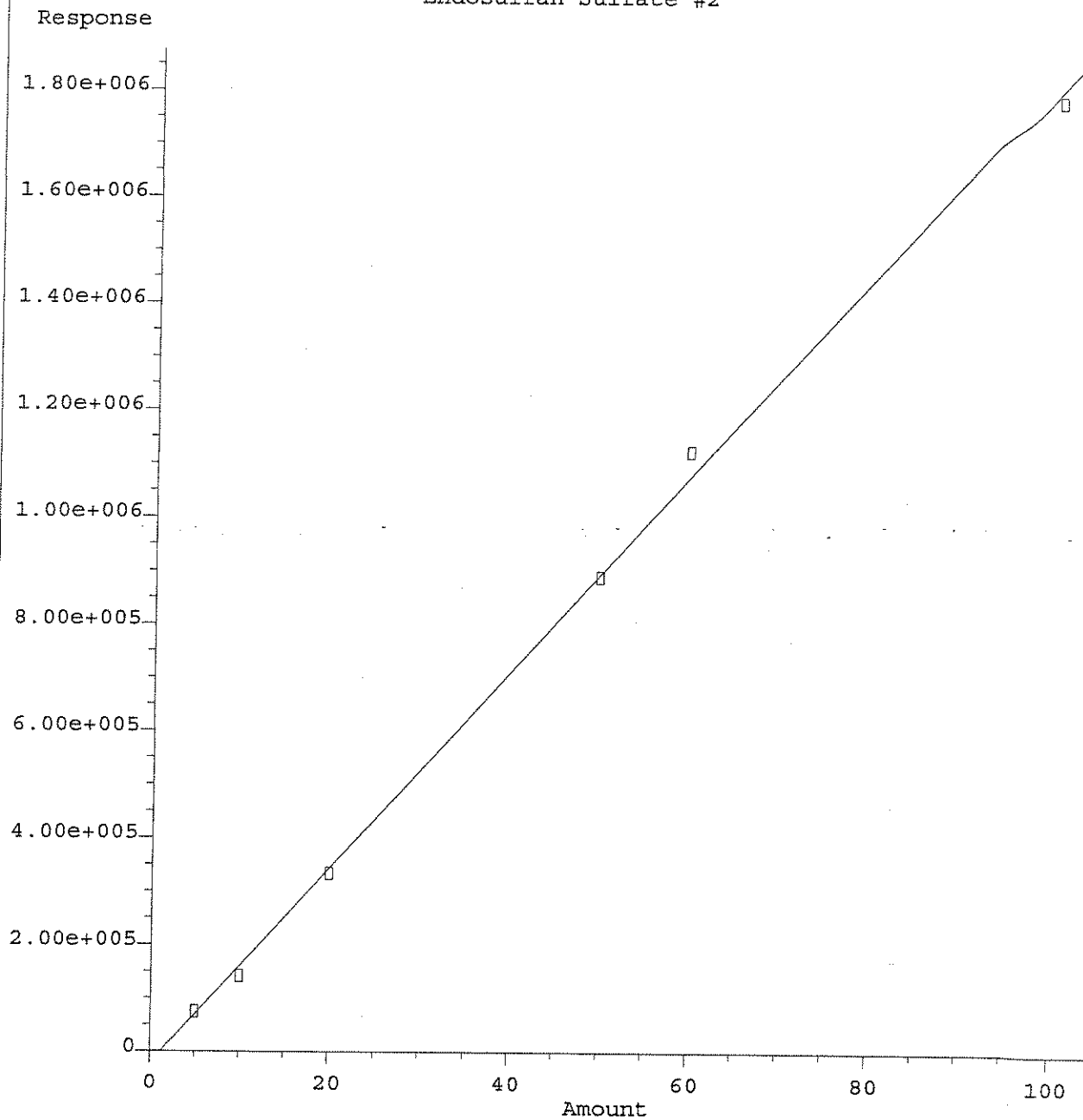
Methoxychlor #2



Response = 9.66e+003 \* Amt - 3.56e+004  
Coef of Det (r<sup>2</sup>) = 0.997 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

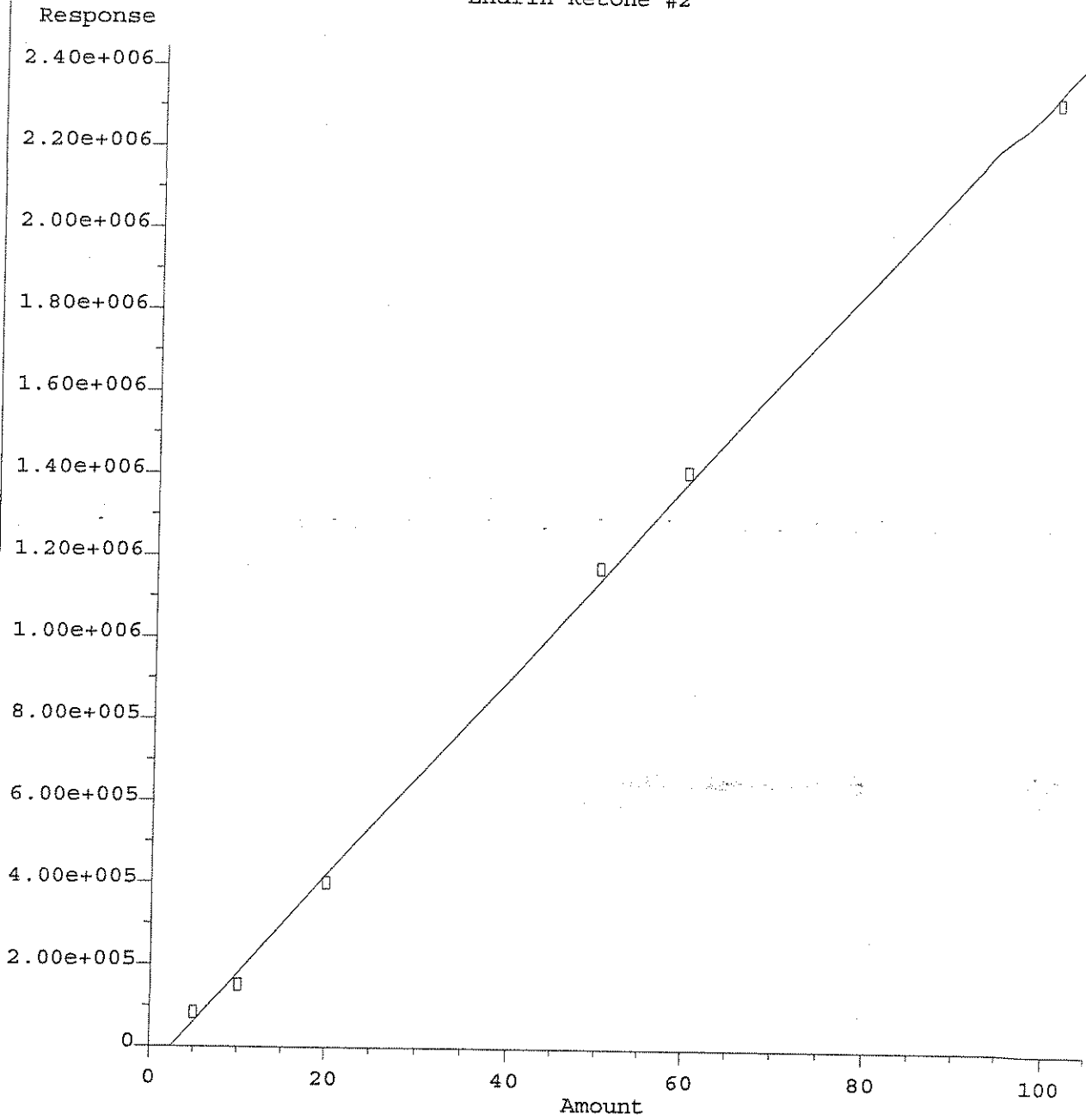
Endosulfan Sulfate #2



Response =  $1.84e+004 * Amt - 2.46e+004$   
Coef of Det ( $r^2$ ) = 0.999 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

Endrin Ketone #2

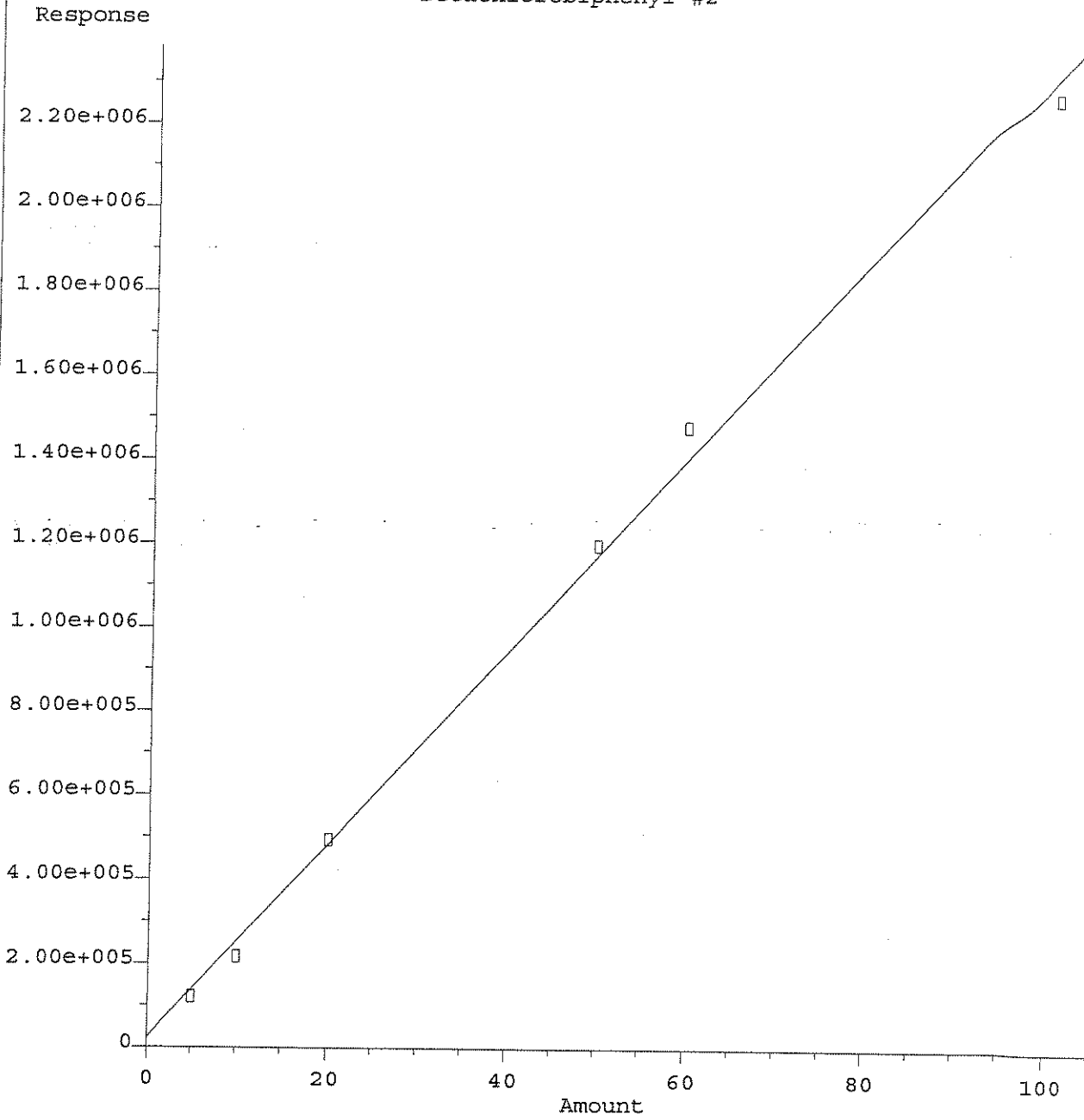


Response = 2.41e+004 \* Amt - 5.91e+004  
Coef of Det (r^2) = 0.999    Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Decachlorobiphenyl #2



Response =  $2.30e+004 * Amt + 2.34e+004$   
Coef of Det ( $r^2$ ) = 0.997    Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

## ANALYSIS SEQUENCE

BPG0248

Instrument: SVOAGC3

Calibration ID: UNASSIGNED 8081EH

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0248-PEM1	QC		1		6E02036		
BPG0248-CCV1	QC		2		6F13062		
BF62219-BLK2	QC		3				
BF62219-BS2	QC		4				
BF62219-BSD2	QC		5				
0606346-02	SVOC: 8081A ppb Pesticides	O	6				MACTEC Engineering & Consulting, Inc
0606346-03	SVOC: 8081A ppb Pesticides	O	7				MACTEC Engineering & Consulting, Inc
BPG0248-CCV2	QC		8		6F13062		

Samples Loaded By

Date

Data Processed By

Date

Quantitation Report

Signal #1 : Q:\SVOA\GC3\_GE\DATA\GE062306\002F0101.D Vial: 2  
 Signal #2 : Q:\SVOA\GC3\_GE\DATA\GE062306\002F0101.D\002R0101.D  
 Acq On : 23 Jun 06 08:46 AM Operator: [GC]2R0101.D\DATA.MS  
 Sample : PEM Inst : GC3  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 23 10:16 19106

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Title :  
 Last Update : Thu Jun 22 06:59:52 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 3 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xylene	7.64	8.76	2750225	915838	45.106	41.833
			Recovery	=	90.21%	83.67%
23) S Decachlorobiphenyl	18.12	20.76	1551503	769512	34.284m	32.431
			Recovery	=	68.57%	64.86%
Target Compounds						
2) M Hexachlorobenzene	0.00	0.00	0	0	N.D.	N.D.
3) M alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
4) M gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.
5) M beta-BHC	0.00	0.00	0	0	N.D.	N.D.
6) M delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7) M Heptachlor	0.00	0.00	0	0	N.D.	N.D.
8) M Aldrin	0.00	0.00	0	0	N.D.	N.D.
9) M Heptachlor Epoxide	0.00	0.00	0	0	N.D.	N.D.
10) M gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11) M alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
12) M 4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13) M Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
14) M Dieldrin	0.00	0.00	0	0	N.D.	N.D.
15) M Endrin	14.04	15.35	4513560	1479214	110.451m	95.383m
16) M 4,4'-DDD	14.16	15.47	108096	65924	3.167m	6.066m#
17) M Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18) M 4,4'-DDT	14.60	15.99	3636842	1397553	93.781	99.089
19) M Endrin Aldehyde	15.13	16.25	3366	4252	1.036m	0.693m#
20) M Methoxychlor	0.00	0.00	0	0	N.D.d	N.D.d
21) M Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22) M Endrin Ketone	16.32	17.82	106715	45773	3.383	4.356m#

$$\Sigma \frac{110081}{4623641} = 2.38\% \quad \text{DDT} \quad \frac{108096}{3744938} = 2.89\%$$

$$\Sigma \frac{50025}{1529239} = 3.27\% \quad \text{DDT} \quad \frac{65924}{1463477} = 4.50\%$$

Quantitation Report

Signal #1 : Q:\SVOA\GC3\_GE\DATA\GE062306\003F0201.D Vial: 3  
 Signal #2 : Q:\SVOA\GC3\_GE\DATA\GE062306\003F0201.D\003R0201.D  
 Acq On : 23 Jun 06 09:42 AM Operator: [GC]3R0201.D\DATA.MS  
 Sample : PEST 50CC *CCVI* Inst : GC3  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 23 10:46 19106

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Title :  
 Last Update : Thu Jun 22 06:59:52 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 3 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xylene	7.64	8.76	3163743	1086928	51.867	49.533
			Recovery	=	103.73%	99.07%
23) S Decachlorobiphenyl	18.13	20.77	2368337	1201367	52.625m	51.201
			Recovery	=	105.25%	102.40%
Target Compounds						
2) M Hexachlorobenzene	8.64	9.92	5198415	1924371	54.108m	51.425
3) M alpha-BHC	9.07	10.26	3976295	1262658	53.935	47.041
4) M gamma-BHC (Lindane)	9.80	11.04	3714348	1216654	54.181m	47.727
5) M beta-BHC	10.02	11.21	1865539	666194	53.087	49.025
6) M delta-BHC	10.38	11.80	3642338	1150185	53.732	46.398
7) M Heptachlor	10.79	11.95	3391610	1139000	54.440	49.035
8) M Aldrin	11.38	12.59	3311924	1087259	54.481m	47.442
9) M Heptachlor Epoxide	12.52	13.64	3080582	1085942	54.446	49.044
10) M gamma-Chlordane	12.74	13.97	3099715	1100880	53.771	49.148
11) M alpha-Chlordane	12.98	14.23	2924180	1112688	53.669	49.185
12) M 4,4'-DDE	13.11	14.47	2866930	1071114	52.782	49.046
13) M Endosulfan I	13.22	14.35	3014505	1001252	53.564	48.569
14) M Dieldrin	13.64	14.83	2805668	983254	53.230	47.712
15) M Endrin	14.04	15.36	2165804	712250	53.187	47.348
16) M 4,4'-DDD	14.13	15.45	2548218	841253	55.880	48.877
17) M Endosulfan II	14.43	15.71	2480328	932461	54.816	46.886
18) M 4,4'-DDT	14.60	15.99	1943043	639491	50.788	48.189
19) M Endrin Aldehyde	15.14	16.28	1929769	844725	53.351	50.645
20) M Methoxychlor	15.39	17.16	1094986	451817	53.160	50.448
21) M Endosulfan Sulfate	15.87	16.78	2195814	866209	52.437m	48.543
22) M Endrin Ketone	16.35	17.85	2686714	1208613	54.768	52.637

Quantitation Report

Signal #1 : Q:\SVOA\GC3\_GE\DATA\GE062306\011F0201.D Vial: 11  
 Signal #2 : Q:\SVOA\GC3\_GE\DATA\GE062306\011F0201.D\011R0201.D  
 Acq On : 23 Jun 06 08:20 PM Operator: [GC]1R02 01.D\DATA.MS  
 Sample : PEST 50CC CCV Inst : GC3  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 26 7:51 19106

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Title :  
 Last Update : Thu Jun 22 06:59:52 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 3 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xylene	7.64	8.76	3302696	1124474	54.139	51.223
			Recovery	=	108.28%	102.45%
23) S Decachlorobiphenyl	18.13	20.77	2526745	1257023	56.181m	53.620
			Recovery	=	112.36%	107.24%
Target Compounds						
2) M Hexachlorobenzene	8.64	9.92	5395887	1973543	56.231m	52.765
3) M alpha-BHC	9.07	10.26	4172669	1330218	56.536m	49.336
4) M gamma-BHC (Lindane)	9.80	11.04	3796990	1284175	55.366m	50.192
5) M beta-BHC	10.02	11.22	1985734	704462	56.498m	51.785
6) M delta-BHC	10.38	11.81	3843689	1222830	56.619	49.091
7) M Heptachlor	10.79	11.95	3530984	1194810	56.645	51.307
8) M Aldrin	11.38	12.59	3443815	1146801	56.648m	49.914
9) M Heptachlor Epoxide	12.52	13.64	3233126	1135858	57.155m	51.254
10) M gamma-Chlordane	12.75	13.98	3209424	1162029	55.674m	51.819
11) M alpha-Chlordane	12.98	14.23	2999880	1180026	55.076m	52.120
12) M 4,4'-DDE	13.12	14.47	3022968	1131554	55.668	51.719
13) M Endosulfan I	13.23	14.35	3168322	1053147	56.258	50.997
14) M Dieldrin	13.65	14.83	2997466	1033569	56.848m	50.032
15) M Endrin	14.05	15.36	2268453	759369	55.690	50.299
16) M 4,4'-DDD	14.14	15.46	2614298	897253	57.307	51.969
17) M Endosulfan II	14.43	15.71	2501893	982936	55.287	49.410
18) M 4,4'-DDT	14.60	15.99	1883501	653742	49.277	49.146
19) M Endrin Aldehyde	15.14	16.28	2041722	878011	56.391	52.624
20) M Methoxychlor	15.39	17.16	1111625	453518	53.936	50.624
21) M Endosulfan Sulfate	15.87	16.79	2278477	899140	54.395m	50.338
22) M Endrin Ketone	16.35	17.85	2718123	1268348	55.394m	55.117

ESS LABORATORY  
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/23/06	1	GE062306-1	Prime	8081EA <del>8081EA</del>	(54)	SR
	2	2	Pem	✓	CCV PEMI 8:46 AM	
	3	3	Pest SD CC		6F23069	
	3	3	Pest SD CC	✓	6F23069 CCV1 9:42 AM	
	4	4	BFG 2218 - BIKI	✓		
	5	5	↓ BSI	✓		
	6	6	↓ BSD	✓		
	7	7	0604390-01	✓		
	8	8	↓ 01ms	✓		
	9	9	↓ 01mid	✓		
	10	10	↓ 02	✓		
	11	11	Pest SD CC	✓	6F23069	
	12	12	BFG 2219 - BIKI	✓		
	13	13	↓ BSI	✓		
	14	14	↓ BSD	✓		
	15	15	0606320-01	✓		
	16	16	0606334-01	✓		
	17	17	↓ 02	✓		
	18	18	↓ 02	✓	Sx	
	19	19	↓ 03	✓		
	20	20	0606346-01	✓		
	21	21	↓ 02	✓		
	22	22	↓ 03	✓		
	23	23	Hexane	✓		
	24 11	24 11	Pem Pest SD CC	✓	6F23069 CCV2 7:52 PM 8:20 PM	
6/23/06	11	GE062306-11	Pest SD CC	8081EA	6F23069	SR

CONTROL NUMBER 60.0012-0602A

PAGE \_\_\_\_\_

ESS LABORATORY  
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/23/06	25	GE062306-25	BF62315-BIK1	SOMEH	TCP	SK
	26	26	BS1			
	27	27	BSD1			
	28	28	0606310-01			
	29	29	02			
	30	30	02MS			
	31	31	03			
	32	32	04			
	33	33	05			
	34	34	06			
	35	35	07			
	11	11	Pest SD CL		6F23069	2:24 AM
6/23/06	11	11	Pest SD CL	SOMEA		SK
6/26/06	1	GE062606-01	Prime			SK
	2	02	Pem			
	3	03	Pest SD CL			
	3	03	Pest SD CL			
	4	04	chlor 250			
	5	05	BF62333-BIK1			
	6	06	BS1			
	7	07	BSD1			
	8	08	0606372-03			
	9	09	BF62329-BIK1			
	10	10	BS1			
	11	11	BSD1			
6/26/06	12	GE062606-12	0606373-01	SOMEA		SK

CONTROL NUMBER 60.0012-0602A

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# Pesticides Logbooks



# ESS Organic Preparation Logbook

Project #: 0202346606334 Surrogate ID# 606334  
 Prep Date: 6/22/06 Analytical Matrix: Dr  
 Batch ID: 44TF06621A Extraction Time: 2h  
 Extraction Method: 3500 Start: 0830  
 Finish: 1030

Split Extraction\*   
 \* Half of the final extract volume (0.5ml) is exchanged into 5ml  
 5ml hexane and transferred as Vol 1. The other half (0.5ml  
 CH<sub>2</sub>Cl<sub>2</sub>) is transferred as Volume 2.

ESS ID	Vol(ml) Wt.(g)	Surrogate (ul of ml)	Matrix Spike (ul of ml)	Extract Vol (ml)	Transfer Vol #1 (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Vol #2 (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Date	Bath Temp (C)	pH	Discard #	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.	Analysis Performed
44TF06621A-6	1000	0.5	NA	105	5	NA		40	7-9			EM	SPD		<input checked="" type="checkbox"/> PCB <input checked="" type="checkbox"/> B/SVOA <input type="checkbox"/> SVOA <input type="checkbox"/> LL PAH <input type="checkbox"/> PEST <input checked="" type="checkbox"/> PHIGC <input type="checkbox"/> BIS-2 <input type="checkbox"/> PAH
44TF06621A-6C	1000	0.5	0.5	105	5			40	7-9						
44TF06621A-6I	1000	0.5	0.5	5	5			40	7-9						
44TF06621A-6J	1000	0.5	0.5	5	5			40	7-9						
44TF06621A-6K	1000	0.5	0.5	5	5			40	7-9						
44TF06621A-6L	1000	0.5	NA	5	5			40	7-9						
44TF06621A-6M	1000	0.5		5	5			40	7-9						
44TF06621A-6N	1000	0.5		5	5			40	7-9						
44TF06621A-6O	1000	0.5		5	5			40	7-9						
44TF06621A-6P	1000	0.5		5	5			40	7-9						
44TF06621A-6Q	1000	0.5		5	5			40	7-9						
44TF06621A-6R	1000	0.5		5	5			40	7-9						
44TF06621A-6S	1000	0.5		5	5			40	7-9						
44TF06621A-6T	1000	0.5		5	5			40	7-9						
44TF06621A-6U	1000	0.5		5	5			40	7-9						
44TF06621A-6V	1000	0.5		5	5			40	7-9						
44TF06621A-6W	1000	0.5		5	5			40	7-9						
44TF06621A-6X	1000	0.5		5	5			40	7-9						
44TF06621A-6Y	1000	0.5		5	5			40	7-9						
44TF06621A-6Z	1000	0.5		5	5			40	7-9						

Acid Washed: Y/N Cu Cleaned: Y/N Florisil: Y/N Silica Column/Carbon prep: Y/N  
 H<sub>2</sub>SO<sub>4</sub> ID# 606334 Su ID# 606334 Lot# NA Lot # 606334  
 Prepared By: EM Glasswool: 1000146 Method #(s): 7071/7072 Hexane lot# CO  
 NaOH ID# NA Na<sub>2</sub>SO<sub>4</sub> ID# NA Acetone lot# NA BATCH ID/Test: 606334  
 \*\*Check off column if entire sample used and bottle discarded.

PCB  
Data Package

# PCB Sample Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW11  
Date Sampled: 06/21/06 12:53  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-02  
Sample Matrix: Surface Water  
Analyst: SEP  
Prepared: 06/22/06

### 8082 Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Aroclor 1016	ND	ug/L	0.100	1	06/28/06
Aroclor 1221	ND	ug/L	0.100	1	06/28/06
Aroclor 1232	ND	ug/L	0.100	1	06/28/06
Aroclor 1242	ND	ug/L	0.100	1	06/28/06
Aroclor 1248	ND	ug/L	0.100	1	06/28/06
Aroclor 1254	ND	ug/L	0.100	1	06/28/06
Aroclor 1260	ND	ug/L	0.100	1	06/28/06
Aroclor 1262	ND	ug/L	0.100	1	06/28/06
Aroclor 1268	ND	ug/L	0.100	1	06/28/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	87 %		40-140
Surrogate: Decachlorobiphenyl [2C]	73 %		40-140
Surrogate: Tetrachloro-m-xylene	66 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	68 %		40-140

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW19  
Date Sampled: 06/21/06 13:30  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-03  
Sample Matrix: Surface Water  
Analyst: SEP  
Prepared: 06/22/06

### 8082 Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Aroclor 1016	ND	ug/L	0.100	1	06/28/06
Aroclor 1221	ND	ug/L	0.100	1	06/28/06
Aroclor 1232	ND	ug/L	0.100	1	06/28/06
Aroclor 1242	ND	ug/L	0.100	1	06/28/06
Aroclor 1248	ND	ug/L	0.100	1	06/28/06
Aroclor 1254	ND	ug/L	0.100	1	06/28/06
Aroclor 1260	ND	ug/L	0.100	1	06/28/06
Aroclor 1262	ND	ug/L	0.100	1	06/28/06
Aroclor 1268	ND	ug/L	0.100	1	06/28/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	77 %		40-140
Surrogate: Decachlorobiphenyl [2C]	68 %		40-140
Surrogate: Tetrachloro-m-xylene	70 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	74 %		40-140

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PCB  
Quality Control Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8081A Organochlorine Pesticides

##### Batch BF62219 - 3510C

Methoxychlor	0.30	0.05	ug/L	0.250		120	40-140			
Surrogate: Decachlorobiphenyl	0.304		ug/L	0.250		122	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.281		ug/L	0.250		112	30-150			
Surrogate: Tetrachloro-m-xylene	0.241		ug/L	0.250		96	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.225		ug/L	0.250		90	30-150			

##### LCS Dup

4,4'-DDD	0.29	0.05	ug/L	0.250		116	40-140	4	30	
4,4'-DDE	0.29	0.05	ug/L	0.250		116	40-140	11	30	
4,4'-DDT	0.33	0.05	ug/L	0.250		132	40-140	16	30	
Aldrin	0.27	0.05	ug/L	0.250		108	40-140	4	30	
alpha-BHC	0.26	0.05	ug/L	0.250		104	40-140	4	30	
alpha-Chlordane	0.28	0.05	ug/L	0.250		112	40-140	4	30	
beta-BHC	0.31	0.05	ug/L	0.250		124	40-140	14	30	
delta-BHC	0.25	0.05	ug/L	0.250		100	40-140	8	30	
Dieldrin	0.29	0.05	ug/L	0.250		116	40-140	7	30	
Endosulfan I	0.29	0.05	ug/L	0.250		116	40-140	7	30	
Endosulfan II	0.31	0.05	ug/L	0.250		124	40-140	18	30	
Endosulfan Sulfate	0.29	0.05	ug/L	0.250		116	40-140	15	30	
Endrin	0.31	0.05	ug/L	0.250		124	40-140	10	30	
Endrin Aldehyde	0.29	0.05	ug/L	0.250		116	40-140	19	30	
Endrin Ketone	0.29	0.05	ug/L	0.250		116	40-140	7	30	
gamma-BHC (Lindane)	0.28	0.05	ug/L	0.250		112	40-140	4	30	
gamma-Chlordane	0.37	0.05	ug/L	0.250		148	40-140	24	30	+
Heptachlor	0.27	0.05	ug/L	0.250		108	40-140	4	30	
Heptachlor Epoxide	0.27	0.05	ug/L	0.250		108	40-140	0	30	
Hexachlorobenzene	0.17	0.05	ug/L	0.250		68	40-140	19	30	
Methoxychlor	0.34	0.05	ug/L	0.250		136	40-140	12	30	
Surrogate: Decachlorobiphenyl	0.297		ug/L	0.250		119	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.284		ug/L	0.250		114	30-150			
Surrogate: Tetrachloro-m-xylene	0.236		ug/L	0.250		94	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.222		ug/L	0.250		89	30-150			

#### 8082 Polychlorinated Biphenyls (PCB)

##### Batch BF63030 - 3510C

##### Blank

Aroclor 1016	ND	0.100	ug/L							
Aroclor 1016 (1)	ND	0.100	ug/L							
Aroclor 1016 (1) [2C]	ND	0.100	ug/L							
Aroclor 1016 (2)	ND	0.100	ug/L							
Aroclor 1016 (2) [2C]	ND	0.100	ug/L							
Aroclor 1016 (3)	ND	0.100	ug/L							
Aroclor 1016 (3) [2C]	ND	0.100	ug/L							
Aroclor 1016 (4)	ND	0.100	ug/L							
Aroclor 1016 (4) [2C]	ND	0.100	ug/L							
Aroclor 1016 (5)	ND	0.100	ug/L							

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8082 Polychlorinated Biphenyls (PCB)

##### Batch BF63030 - 3510C

Aroclor 1016 (5) [2C]	ND	0.100	ug/L
Aroclor 1221	ND	0.100	ug/L
Aroclor 1221 (1)	ND	0.100	ug/L
Aroclor 1221 (1) [2C]	ND	0.100	ug/L
Aroclor 1221 (2)	ND	0.100	ug/L
Aroclor 1221 (2) [2C]	ND	0.100	ug/L
Aroclor 1221 (3)	ND	0.100	ug/L
Aroclor 1221 (3) [2C]	ND	0.100	ug/L
Aroclor 1221 (4)	ND	0.100	ug/L
Aroclor 1221 (4) [2C]	ND	0.100	ug/L
Aroclor 1221 (5)	ND	0.100	ug/L
Aroclor 1221 (5) [2C]	ND	0.100	ug/L
Aroclor 1232	ND	0.100	ug/L
Aroclor 1232 (1)	ND	0.100	ug/L
Aroclor 1232 (1) [2C]	ND	0.100	ug/L
Aroclor 1232 (2)	ND	0.100	ug/L
Aroclor 1232 (2) [2C]	ND	0.100	ug/L
Aroclor 1232 (3)	ND	0.100	ug/L
Aroclor 1232 (3) [2C]	ND	0.100	ug/L
Aroclor 1232 (4)	ND	0.100	ug/L
Aroclor 1232 (4) [2C]	ND	0.100	ug/L
Aroclor 1232 (5)	ND	0.100	ug/L
Aroclor 1232 (5) [2C]	ND	0.100	ug/L
Aroclor 1242	ND	0.100	ug/L
Aroclor 1242 (1)	ND	0.100	ug/L
Aroclor 1242 (1) [2C]	ND	0.100	ug/L
Aroclor 1242 (2)	ND	0.100	ug/L
Aroclor 1242 (2) [2C]	ND	0.100	ug/L
Aroclor 1242 (3)	ND	0.100	ug/L
Aroclor 1242 (3) [2C]	ND	0.100	ug/L
Aroclor 1242 (4)	ND	0.100	ug/L
Aroclor 1242 (4) [2C]	ND	0.100	ug/L
Aroclor 1242 (5)	ND	0.100	ug/L
Aroclor 1242 (5) [2C]	ND	0.100	ug/L
Aroclor 1248	ND	0.100	ug/L
Aroclor 1248 (1)	ND	0.100	ug/L
Aroclor 1248 (1) [2C]	ND	0.100	ug/L
Aroclor 1248 (2)	ND	0.100	ug/L
Aroclor 1248 (2) [2C]	ND	0.100	ug/L
Aroclor 1248 (3)	ND	0.100	ug/L
Aroclor 1248 (3) [2C]	ND	0.100	ug/L
Aroclor 1248 (4)	ND	0.100	ug/L
Aroclor 1248 (4) [2C]	ND	0.100	ug/L
Aroclor 1248 (5)	ND	0.100	ug/L
Aroclor 1248 (5) [2C]	ND	0.100	ug/L
Aroclor 1254	ND	0.100	ug/L
Aroclor 1254 (1)	ND	0.100	ug/L

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
 Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8082 Polychlorinated Biphenyls (PCB)

**Batch BF63030 - 3510C**

Aroclor 1254 (1) [2C]	ND	0.100	ug/L							
Aroclor 1254 (2)	ND	0.100	ug/L							
Aroclor 1254 (2) [2C]	ND	0.100	ug/L							
Aroclor 1254 (3)	ND	0.100	ug/L							
Aroclor 1254 (3) [2C]	ND	0.100	ug/L							
Aroclor 1254 (4)	ND	0.100	ug/L							
Aroclor 1254 (4) [2C]	ND	0.100	ug/L							
Aroclor 1254 (5)	ND	0.100	ug/L							
Aroclor 1254 (5) [2C]	ND	0.100	ug/L							
Aroclor 1260	ND	0.100	ug/L							
Aroclor 1260 (1)	ND	0.100	ug/L							
Aroclor 1260 (1) [2C]	ND	0.100	ug/L							
Aroclor 1260 (2)	ND	0.100	ug/L							
Aroclor 1260 (2) [2C]	ND	0.100	ug/L							
Aroclor 1260 (3)	ND	0.100	ug/L							
Aroclor 1260 (3) [2C]	ND	0.100	ug/L							
Aroclor 1260 (4)	ND	0.100	ug/L							
Aroclor 1260 (4) [2C]	ND	0.100	ug/L							
Aroclor 1260 (5)	ND	0.100	ug/L							
Aroclor 1260 (5) [2C]	ND	0.100	ug/L							
Aroclor 1262	ND	0.100	ug/L							
Aroclor 1262 (1)	ND	0.100	ug/L							
Aroclor 1262 (1) [2C]	ND	0.100	ug/L							
Aroclor 1262 (2)	ND	0.100	ug/L							
Aroclor 1262 (2) [2C]	ND	0.100	ug/L							
Aroclor 1262 (3)	ND	0.100	ug/L							
Aroclor 1262 (3) [2C]	ND	0.100	ug/L							
Aroclor 1262 (4)	ND	0.100	ug/L							
Aroclor 1262 (4) [2C]	ND	0.100	ug/L							
Aroclor 1262 (5)	ND	0.100	ug/L							
Aroclor 1262 (5) [2C]	ND	0.100	ug/L							
Aroclor 1268	ND	0.100	ug/L							
Aroclor 1268 (1)	ND	0.100	ug/L							
Aroclor 1268 (1) [2C]	ND	0.100	ug/L							
Aroclor 1268 (2)	ND	0.100	ug/L							
Aroclor 1268 (2) [2C]	ND	0.100	ug/L							
Aroclor 1268 (3)	ND	0.100	ug/L							
Aroclor 1268 (3) [2C]	ND	0.100	ug/L							
Aroclor 1268 (4)	ND	0.100	ug/L							
Aroclor 1268 (4) [2C]	ND	0.100	ug/L							
Aroclor 1268 (5)	ND	0.100	ug/L							
Aroclor 1268 (5) [2C]	ND	0.100	ug/L							

Surrogate: Decachlorobiphenyl	0.158	ug/L	0.250	63	40-140
Surrogate: Decachlorobiphenyl [2C]	0.189	ug/L	0.250	76	40-140
Surrogate: Tetrachloro-m-xylene	0.207	ug/L	0.250	83	30-150
Surrogate: Tetrachloro-m-xylene [2C]	0.202	ug/L	0.250	81	40-140

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8082 Polychlorinated Biphenyls (PCB)

##### Batch BF63030 - 3510C

##### LCS

Aroclor 1016	4.99	0.500	ug/L	5.00		100	40-140			
Aroclor 1260	4.15	0.500	ug/L	5.00		83	40-140			
Surrogate: Decachlorobiphenyl	0.223		ug/L	0.250		89	40-140			
Surrogate: Decachlorobiphenyl [2C]	0.205		ug/L	0.250		82	40-140			
Surrogate: Tetrachloro-m-xylene	0.234		ug/L	0.250		94	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.239		ug/L	0.250		96	40-140			

##### LCS Dup

Aroclor 1016	5.04	0.500	ug/L	5.00		101	40-140	1	50	
Aroclor 1260	4.01	0.500	ug/L	5.00		80	40-140	3	50	
Surrogate: Decachlorobiphenyl	0.193		ug/L	0.250		77	40-140			
Surrogate: Decachlorobiphenyl [2C]	0.214		ug/L	0.250		86	40-140			
Surrogate: Tetrachloro-m-xylene	0.230		ug/L	0.250		92	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.246		ug/L	0.250		98	40-140			

#### 8260B Volatile Organic Compounds

##### Batch BF62822 - 5030B

##### Blank

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L							
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
1,1-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	1.0	ug/L							
1,1-Dichloropropene	ND	2.0	ug/L							
1,2,3-Trichlorobenzene	ND	1.0	ug/L							
1,2,3-Trichloropropane	ND	1.0	ug/L							
1,2,4-Trichlorobenzene	ND	1.0	ug/L							
1,2,4-Trimethylbenzene	ND	1.0	ug/L							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							
1,2-Dichlorobenzene	ND	1.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
1,3,5-Trimethylbenzene	ND	1.0	ug/L							
1,3-Dichlorobenzene	ND	1.0	ug/L							
1,3-Dichloropropane	ND	1.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
1,4-Dioxane - Screen	ND	500	ug/L							
1-Chlorohexane	ND	1.0	ug/L							
2,2-Dichloropropane	ND	1.0	ug/L							
2-Butanone	ND	25.0	ug/L							
2-Chlorotoluene	ND	1.0	ug/L							
2-Hexanone	ND	10.0	ug/L							
4-Chlorotoluene	ND	1.0	ug/L							

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# PCB Calibration Data

## ANALYSIS SEQUENCE

BPG0134

Instrument: SVOAGC6

Calibration ID: UNASSIGNED 8082-CCI

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0134-CAL1	QC 1660 50		1		6F14043		
BPG0134-CAL2	QC 1660 100		2		6F14044		
BPG0134-CAL3	QC 1660 500		3		6F14045		
BPG0134-CAL4	QC 1660 1000		4		6F14046		
BPG0134-CAL5	QC 1660 1600		5		6F14047		
BPG0134-CAL6	QC 1660 2000		6		6F14048		
BPG0134-SCV1	QC 1660 5CV		7		6F14049		
BPG0134-CAL7	QC 1221		8		6F14051		
BPG0134-SCV2	QC 1221 5CV		9		6F14052		
BPG0134-CAL8	QC 1232		10		6F14053		
BPG0134-SCV3	QC 1232 5CV		11		6F14054		
BPG0134-CAL9	QC 1242		12		6F14055		
BPG0134-SCV4	QC 1242 5CV		13		6F14056		
BPG0134-CALA	QC 1248		14		6F14057		
BPG0134-SCV5	QC 1248 5CV		15		6F14058		
BPG0134-CALB	QC 1254		16		6F14059		
BPG0134-SCV6	QC 1254 5CV		17		6F14060		
BPG0134-CALC	QC 1262		18		6F14061		
BPG0134-SCV7	QC 1262 5CV		19		6F14062		
BPG0134-CALD	QC 1268		20		6F14063		
BPG0134-SCV8	QC 1268 5CV		21		6F14064		

Samples Loaded By

Date

Data Prepared By

Date

Method : C:\MSDCHEM\1\METHODS\8082\_6CI.M (Chemstation Integrator)  
 Title :  
 Last Update : Thu Jun 22 16:06:16 2006

Calibration Files

100 =GH025496.D 50 =GH025495.D 500 =GH025497.D  
 1000 =GH025733.D 1600 =GH025499.D 2000 =GH025500.D

*Used  
Average  
RF*

Compound	100	50	500	1000	1600	2000	Avg	%RSD
1) S Tetrachloro-m-xy	9.455	8.570	9.310	9.252	9.284	9.211	9.180	E7 3.38
2) LM1 AR1016 (1)	2.054	1.939	1.613	1.550	1.437	1.503	1.683	E6 15.00
3) LM1 AR1016 (2)	3.661	4.360	3.032	2.928	2.785	2.755	3.254	E6 19.50
4) LM1 AR1016 (3)	5.271	5.972	4.279	4.305	4.237	4.209	4.712	E6 15.68
5) LM1 AR1016 (4)	2.146	2.174	2.111	2.147	2.090	2.074	2.124	E6 1.81
6) LM1 AR1016 (5)	1.244	1.258	1.135	1.132	1.120	1.153	1.174	E6 5.21
7) LM2 AR1260 (1)	4.072	4.505	4.013	4.022	3.999	4.039	4.108	E6 4.77
8) LM2 AR1260 (2)	2.145	2.183	2.250	2.280	2.311	2.360	2.255	E6 3.55
9) LM2 AR1260 (3)	9.185	9.828	9.472	9.608	9.835	8.208	9.356	E6 6.55
10) LM2 AR1260 (4)	4.639	4.774	4.710	4.788	4.770	3.955	4.606	E6 7.03
11) LM2 AR1260 (5)	2.160	2.027	2.098	2.066	2.084	2.081	2.086	E6 2.10
12) S Decachlorobiphen	7.252	7.137	7.048	6.910	6.949	6.761	7.010	E7 2.49

Signal #2 Calibration Files

100 =GH025496.D 50 =GH025495.D 500 =GH025497.D  
 1000 =GH025733.D 1600 =GH025499.D 2000 =GH025500.D

*Used  
for  
RF*

Compound	100	50	500	1000	1600	2000	Avg	%RSD
1) S Tetrachloro-m-xy	1.029	1.000	1.040	1.039	1.045	1.061	1.035	E8 1.97
2) LM1 AR1016 (1)	1.884	1.839	1.753	1.635	1.726	1.789	1.771	E6 4.96
3) LM1 AR1016 (2)	3.853	3.761	3.486	3.524	3.315	3.330	3.545	E6 6.24
4) LM1 AR1016 (3)	2.957	2.847	2.841	2.931	2.952	2.899	2.904	E6 1.76
5) LM1 AR1016 (4)	2.321	2.434	2.250	2.255	2.207	2.216	2.281	E6 3.74
6) LM1 AR1016 (5)	1.289	1.167	1.240	1.188	1.201	1.179	1.210	E6 3.79
7) LM2 AR1260 (1)	3.455	3.588	3.333	3.158	3.425	3.429	3.398	E6 4.22
8) LM2 AR1260 (2)	2.595	2.542	2.403	2.459	2.458	2.487	2.491	E6 2.74
9) LM2 AR1260 (3)	5.351	5.380	5.260	5.430	5.488	5.572	5.414	E6 2.01
10) LM2 AR1260 (4)	3.372	3.410	3.273	3.349	3.374	3.410	3.365	E6 1.51
11) LM2 AR1260 (5)	1.203	1.267	1.146	1.156	1.158	1.170	1.183	E6 3.86
12) S Decachlorobiphen	4.420	5.395	4.021	3.999	3.957	3.968	4.294	E7 13.22

# ESS LABORATORY GC 6 RUN LOG

COLUMN RTX CL Pesticide / RTX CL Pesticide II

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
	48					
	49					
	50					
	51					
	52					
	53					
	54					
	55					
	56					
	57					
	58					
	59					
	95					
	96					
	97					
	98					
	99					
	96					
6/13/06	1	GH029-92	16603			SB
	2		53			
	1		94	HE 104		
	2		95	1660-50	RODICE 6F14043	CAL1
	3		56	100	044	2
	4		97	500	045	3
	5		98	1000	046	4
	6	GH029 99	1600		047	5
	7	GH029 00	2000		048	6
	8		55		049	SCV1
	9		55		050	
6/13/06	10	GH029-03	121	RODICE	051	CAL 7

CONTROL NUMBER 60.0035-0601A

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# ESS LABORATORY GC 6 RUN LOG

COLUMN RTX CL Pesticide / RTX CL Pesticide II

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/13/06	11	614055-0507	12155	✓ 8002 CL	6F14052 SCV2	M
	12	-0605	1232	✓	053 CAL8	
	13	-0702	123257	✓	054 SCV3	
	14	-0507	1292	✓	055 CAL9	
	15	-09	129255	✓	056 SCV4	
	16	-09	1298	✓	057 CAL10 CALA	
	17	70	129859	✓	058 SCV5	
	18	-11	1253	✓	58 <del>059</del> 057 CAL11 CALB	
	19	72	125355	✓	060 SCV6	
	20	73	1261	✓	061 CAL12 CALC	
	21	14	12255	✓	062 SCV7	
	22	15	1269	✓	063 CAL13 CALD	
	23	76	12655	✓	6F14064 SCV8	
	24	17	0606075-4	✓	74/60 57	
	25	18	-12	✓	57	
	26	19	-032	✓	NO	
	27	20	-04	✓	RATIO 57/60 ✓	
	28	21	-05	✓	RATIO 57/10	
	29	22	-05m	✓	RATIO 60	
	30	23	-05m30	✓	RATIO 20	
	31	24	-16	✓		
	32	25	-07	✓	NO	
	33	26	-08	✓	57	
	34	27	-09	✓	NO	
	35	28	-10	✓	NO	
	36	29	-11	✓	NO	
	37	30	-12	✓	NO	
	38	31	-14	✓	NO	
	39	32	-15	✓	NO	
6/13/06	40	614055-133	-16	✓ 8002 CL	NO	

CONTROL NUMBER 60.0035-0601A

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## ANALYSIS SEQUENCE

BPG0245

Instrument: SVOAGC6

Calibration ID: UNASSIGNED - 8082-CCZ

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0245-CCV1	QC		1		6F12082		
BF62219-BLK1	QC		2				
BF62219-BS1	QC		3				
BF62219-BSD1	QC		4				
0606346-02	SVOC: 8081A ppb Pesticides	O	5				MACTEC Engineering & Consulting, In
0606346-03	SVOC: 8081A ppb Pesticides	O	6				MACTEC Engineering & Consulting, In
BPG0245-CCV2	QC		7		6F12082		

Samples Loaded By

Date

Data Processed By

Date



# ESS LABORATORY GC 6 RUN LOG

COLUMN RTX CL Pesticide / RTX CL Pesticide II

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/21/06	17	614027-25	0606307-03m1			
	18	-26	-03m10			
	19	-27				
	96	-2827	Hep			
	97	-2948	16600		6F20058	
	98	-3029	12424		12:01 AM	
	99	-3130	124824		059	
	100	-3231	12540		060	
6/21/06	97	-3332	16604		061	
6/22/06	96	614027-32	Hep	8082-601		
	97	-33	16604		6F23058	58
	98	34	12424		10:57 AM	
	99	35	124824		059	
	100	36	12540		060	
	1	37	BF62112-01m		061	
	2	38	-B31			
	3	39	-B301			
	4	40	0606347-01			
	5	41	BF62219-01m			
	6	42	-B31			
	7	43	-B301			
	8	44	0606311-01			
	9	45	0606320-01			
	10	46	0606334-01		Low DCR	
	11	47	0606347-01		48	
	12	48	0606334-02		Surf Low	
	13	49	-03			
	14	50	0606396-01			
	15	51	-02			
22/06	16	52	-03			

NTROL NUMBER 60.0035-0601A

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# ESS LABORATORY GC 6 RUN LOG

COLUMN RTX CL Pesticide / RTX CL Pesticide II

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/22/06	96	6H0257 53	Acrae	8092-6CI		SJP
	97	54	1660 cc	✓	6F23058	5:32 AM
	98	55	1292		059	
	99	56	1294		060	
	100	57	1259		061	
	97	58	1660 cc		058	
	17	59	APP 501	✓		
	18	60	SDI	✓		
	19	61	503	✓		
	20	62	APP 507	✓		
	21	63	BFL 2115-2114	✓		
	22	64	-011	✓		
	23	65	-0501	✓		
	24	66	0606332-4	✓	need copper clean.	
	25	67	-2			
	26	68	-03			
	27	69	27		PR20	
	28	70	24 ml			
	29	71	24 ml			
	30	72	0606333-4 0606334-4	✓		
	31	73	-2	✓		
	32	74	-03	✓	PR5 60/42	
	33	75	0606340-4	✓		
	34	76	-2	✓		
	96	77	Her			
	97	78	1664	✓	6F23058	0042 AM
	98	79	1292		059	
	99	80	1292		060	
	100	81	1294		061	
6/22/06	97	82	1660 cc		058	

CONTROL NUMBER 60.0035-0601A

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Data File : Q:\SVOA\GC6\_GH\DATA\GH0606\GH062206\GH025733.D\ECD1A.CH Vial: 97  
 Acq On : 22 Jun 2006 10:57 Operator: ML  
 Sample : 1660 cc Inst : SVOA\_GC6  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS.E

Data File : Q:\SVOA\GC6\_GH\DATA\GH0606\GH062206\GH025733.D\ECD2B.CH Vial: 97  
 Acq On : 22 Jun 2006 11:15 Operator: ML  
 Sample : 1660 cc Inst : SVOA\_GC6  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E  
 Quant Time: Jun 22 12:02:33 2006 Quant Results File: 8082\_6CI.RES

Quant Method : C:\MSDCHEM\1\METHODS\8082\_6CI.M (Chemstation Integrator)  
 Title :  
 Last Update : Tue Jun 13 16:00:05 2006  
 Response via : Initial Calibration  
 DataAcq Meth : 8082CB.M

Volume Inj. : 1uL  
 Signal #1 Phase : RTX-CLPESTICIDES Signal #2 Phase: RTX-CLPESTICIDES II  
 Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	4.17	4.07	3569.2E6	4219.2E6	38.879	40.747m
Spiked Amount 50.000			Recovery	=	77.76%	81.49%
12) S Decachlorobiphen	9.96	10.15	2611.0E6	1509.6E6	37.249m	35.159m
Spiked Amount 50.000			Recovery	=	74.50%	70.32%
Target Compounds						
2) LM1 AR1016 (1)	4.67	4.71	1541.6E6	1757.8E6	916.171	992.503m
3) LM1 AR1016 (2)	5.11	5.18	2892.6E6	3469.5E6	889.028m	978.747m
4) LM1 AR1016 (3)	5.65	5.83	3847.2E6	2918.3E6	816.448m	1004.830m
5) LM1 AR1016 (4)	6.23	6.32	2001.8E6	2275.9E6	942.586m	997.939m
6) LM1 AR1016 (5)	6.63	6.93	1263.7E6	1235.6E6	1076.650m	1020.780m
Sum AR1016 (1)			11547.0E6	11657.1E6	4640.883	4994.799
Average AR1016 (1)					928.177	998.960
7) LM2 AR1260 (1)	7.47	7.57	3873.9E6	3502.3E6	942.979m	1030.691m
8) LM2 AR1260 (2)	7.86	8.47	2606.3E6	2205.1E6	1155.842m	885.372m
9) LM2 AR1260 (3)	8.66	8.71	9466.9E6	4499.9E6	1011.852m	831.224m
10) LM2 AR1260 (4)	8.93	9.06	4125.9E6	2884.5E6	895.747m	857.275m
11) LM2 AR1260 (5)	9.51	9.60	2101.2E6	1004.7E6	1007.297m	848.926m
Sum AR1260 (1)			22174.3E6	14096.5E6	5013.717	4453.488
Average AR1260 (1)					1002.743	890.698

Data File : Q:\SVOA\GC6\_GH\DATA\GH0606\GH062206\GH025754.D\ECD1A.CH Vial: 97  
 Acq On : 6-22-2006 05:32:05 PM Operator: ML  
 Sample : 1660 CC Inst : SVOA\_GC6  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS.E

Data File : Q:\SVOA\GC6\_GH\DATA\GH0606\GH062206\GH025754.D\ECD2B.CH Vial: 97  
 Acq On : 6-22-2006 05:49:57 PM Operator: ML  
 Sample : 1660 CC Inst : SVOA\_GC6  
 Misc : Multiplr: 1.00  
 IntFile : EVENTS2.E  
 Quant Time: Jun 22 18:42:16 2006 Quant Results File: 8082\_6CI.RES

Quant Method : C:\MSDCHEM\1\METHODS\8082\_6CI.M (Chemstation Integrator)  
 Title :  
 Last Update : Thu Jun 22 16:06:16 2006  
 Response via : Initial Calibration  
 DataAcq Meth : 8082CB.M

Volume Inj. : 1uL  
 Signal #1 Phase : RTX-CLPESTICIDES Signal #2 Phase: RTX-CLPESTICIDES II  
 Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xy	4.17	4.07	3706.2E6	4316.7E6	40.371m	41.689m
Spiked Amount	50.000		Recovery	=	80.74%	83.38%
12) S Decachlorobiphen	9.96	10.15	2544.8E6	1512.3E6	36.304	35.222
Spiked Amount	50.000		Recovery	=	72.61%	70.44%
Target Compounds						
2) LM1 AR1016 (1)	4.67	4.71	1603.6E6	1793.9E6	952.988	1012.909m
3) LM1 AR1016 (2)	5.11	5.18	2840.6E6	3540.2E6	873.057	998.705m
4) LM1 AR1016 (3)	5.65	5.83	4252.6E6	2959.1E6	902.476	1018.884m
5) LM1 AR1016 (4)	6.23	6.32	2084.2E6	2394.5E6	981.358	1049.945m
6) LM1 AR1016 (5)	6.63	6.93	1161.8E6	1200.2E6	989.838	991.483m
Sum AR1016 (1)			11942.8E6	11887.9E6	4699.716	5071.926
Average AR1016 (1)					939.943	1014.385
7) LM2 AR1260 (1)	7.47	7.57	4010.4E6	3612.4E6	976.217	1063.103
8) LM2 AR1260 (2)	7.86	8.47	2712.2E6	2187.3E6	1202.794	878.233 #
9) LM2 AR1260 (3)	8.65	8.71	8210.9E6	4428.9E6	877.608	818.094
10) LM2 AR1260 (4)	8.93	9.06	3877.7E6	2811.5E6	841.853	835.567
11) LM2 AR1260 (5)	9.51	9.60	1943.4E6	1022.0E6	931.639	863.587
Sum AR1260 (1)			20754.6E6	14062.1E6	4830.111	4458.583
Average AR1260 (1)					966.022	891.717

## ANALYSIS SEQUENCE

BPG0242

Instrument: SVOAGC5

Calibration ID: UNASSIGNED *POBLCX*

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0242-CAL1	QC		1		6F14043		
BPG0242-CAL2	QC		2		6F14044		
BPG0242-CAL3	QC		3		6F14045		
BPG0242-CAL4	QC		4		6F14046		
BPG0242-CAL5	QC		5		6F14047		
BPG0242-CAL6	QC		6		6F14048		
BPG0242-CAL7	QC		7		6F14051		
BPG0242-CAL8	QC		8		6F14053		
BPG0242-CAL9	QC		9		6F14055		
BPG0242-CALA	QC		10		6F14057		
BPG0242-CALB	QC		11		6F14059		
BPG0242-CALC	QC		12		6F14061		
BPG0242-CALD	QC		13		6F14063		
BPG0242-SCV1	QC		14		6F14049		
BPG0242-SCV2	QC		15		6F14052		
BPG0242-SCV3	QC		16		6F14054		
BPG0242-SCV4	QC		17		6F14056		
BPG0242-SCV5	QC		18		6F14058		
BPG0242-SCV6	QC		19		6F14060		
BPG0242-SCV7	QC		20		6F14062		
BPG0242-SCV8	QC		21		6F14064		

Samples Loaded By

Date

Data Processed By

Date

# ESS LABORATORY GC 5 RUN LOG

COLUMN RTX CL Pesticide / RTX CL Pesticide II

Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/4/11	91	66061103-91	16604	8000W	6FL0058	M
	92	92	16604		59	
	93	93	16604		60	
	94	94	16604		61	
6/11/11	91	66061103-91	16604	8000W	6FL0058 120 High Sample ID 022	M
6/12/11	96	66061106-96	16604	8000W		M
	97	97	16604		6FL3008	
	98	98	16604		59	
	99	99	16604		60	
6/12/11	100	66061106-100	16604	8000W	6FL3061	M
6/13/11	96	66061301-96	16604	8000W		M
	97	97	16604		6FL23058	
	98	98	16604		59	
	99	99	16604		60	
	100	100	16604		61	
6/13/11	97	66061301-97	16604	8000W	6FL3058	M
6/23/11	1	66061306A-01	16604	8000W	6FL23058	M
	1	01	16604		6FL3058	
	2	02	16604		6FL4073 CAL1	
	3	03	16604		44 2	
	4	04	16604		45 3	
	5	05	16604		46 4	
	6	06	16604		47 5	
	7	07	16604		48 6	
	8	08	16604		49 SCV1	
	9	09	16604		49 SCV2	
	10	10	16604		50 CAL7	
	11	11	16604		51 SCV2	
	12	12	16604		52 CAL8	
6/23/11	13	66061306A-13	16604	8000W	51 SCV3	M

# ESS LABORATORY GC 5 RUN LOG

COLUMN RTX CL Pesticide / RTX CL Pesticide II

Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/23/06	14	66062301A-14	124L	✓	Direct 667405T CAL 9	M
	15	-15	124L53	✓	56 SCV 4	
	16	-16	124T	✓	57 CAL A	
	17	-17	12453	✓	58 SCV 5	
	18	-18	124T	✓	59 CAL B	
	19	-19	1247 51	✓	60 SCV 6	
	20	-20	124L	✓	61 CAL C	
	21	-21	1242 51	✓	62 SCV 7	
	22	-22	1268	✓	63 CAL D	
6/23/06	23	66062305 L1	1265 51	✓	Direct 64 67 SCV 8	
6/24/06	1	66062406-01	1104	Direct		
	2	-02	16604	✓	6623058 INT: 1035	
	3	-03	124L41	✓	59	
	4	-04	124T4	✓	60	
	5	-05	124TCC	✓	61	
	6	-06	BFC2115-01K1	✓		checked
	7	-07	-071	✓		
	8	-08	-0801	✓		
	9	-09	6606332-01	✓	60	
	10	-10	-02	✓	60 ✓ 42 NATS	
	11	-11	-03	✓	42 ✓ 60 ✓ 13 ✓	
	12	-12	-04	✓	420 ✓ 60 ✓ 42 ✓	
	13	-13	-04M3	✓	420	
	14	-14	-04M10	✓	420	
	15	-15	-04M1	✓		
	16	-16	-04M11	✓		
	17	-17	6606332-02	✓	45 42	checked
	18	-18	1104	✓		
	19	-19	16604	✓	6623058	
6/24/06	58	66062406-58	124L4	Direct	67	N

Method : Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Title :  
 Last Update : Mon Jul 10 09:21:55 2006  
 Response via : Initial Calibration

Calibration Files

500 =004F0201.D 2000 =007F0201.D 50 =002F0201.D  
 100 =003F0201.D 1000 =002F0101.D 1600 =006F0201.D

Compound	500	2000	50	100	1000	1600	Avg	%RSD
1) S Tetrachloro-m-xylene	56.2	53.1	65.2	63.2	60.6	52.6	58.5 E3	9.10
2) LM1 AR1016 (1)	1.2	1.1	1.4	1.3	1.2	1.1	1.2 E3	10.36
3) LM1 AR1016 (2)	2.2	1.7	3.0	3.1	2.0	1.8	2.3 E3	25.30
4) LM1 AR1016 (3)	4.1	3.3	6.1	6.0	3.9	3.4	4.5 E3	28.19
5) LM1 AR1016 (4)	1.1	1.0	1.4	1.4	1.1	1.0	1.2 E3	17.09
6) LM1 AR1016 (5)	1.1	0.8	0.9	0.9	1.0	0.9	0.9 E3	8.44
7) LM2 AR1260 (1)	3.1	2.3	4.4	4.2	2.7	2.4	3.2 E3	29.37
8) LM2 AR1260 (2)	7.3	5.8	8.8	9.3	6.8	6.0	7.4 E3	19.39
9) LM2 AR1260 (3)	2.5	2.0	2.7	2.8	2.4	2.1	2.4 E3	13.19
10) LM2 AR1260 (4)	940.1	811.8	984.3	939.8	962.9	833.3	912.0	7.85
11) LM2 AR1260 (5)	1.6	1.3	2.1	2.0	1.5	1.5	1.7 E3	17.50
12) S Decachlorobiphenyl	55.8	41.9	77.4	69.3	50.3	43.5	56.4 E3	25.39

*All linear*

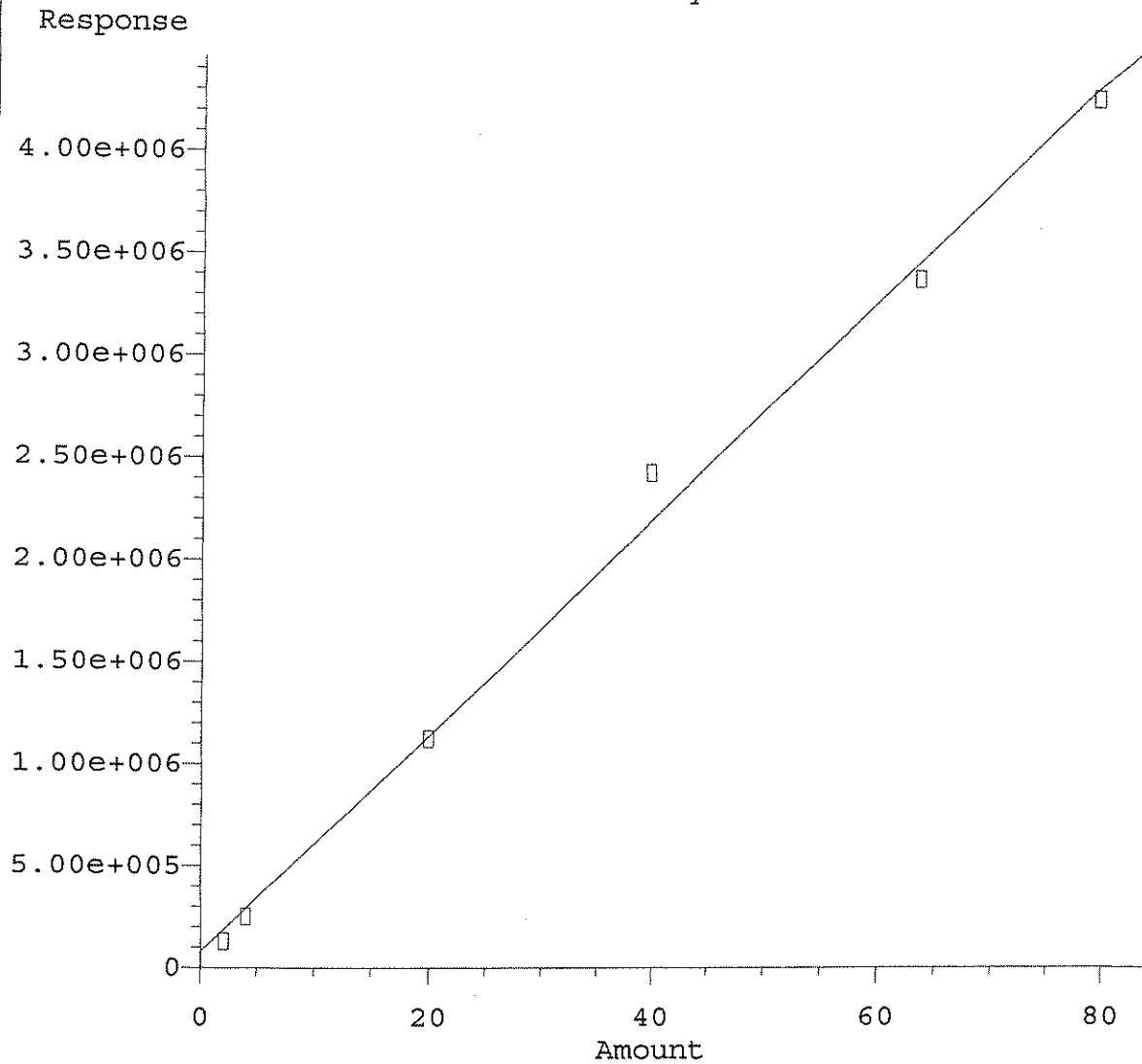
Signal #2 Calibration Files

500 =004R0201.D 2000 =007R0201.D 50 =002R0201.D  
 100 =003R0201.D 1000 =002R0101.D 1600 =006R0201.D

Compound	500	2000	50	100	1000	1600	Avg	%RSD
1) S Tetrachloro-m-xylene	52.2	46.3	55.7	52.8	50.5	47.0	50.7 E3	7.10
2) LM1 AR1016 (1)	1.3	1.1	1.3	1.3	1.2	1.1	1.2 E3	8.14
3) LM1 AR1016 (2)	2.1	1.7	2.4	2.4	1.9	1.7	2.0 E3	16.32
4) LM1 AR1016 (3)	4.2	3.4	4.3	5.2	3.9	3.5	4.1 E3	16.23
5) LM1 AR1016 (4)	1.5	1.3	1.4	1.5	1.5	1.4	1.4 E3	6.48
6) LM1 AR1016 (5)	1.2	1.0	1.6	1.4	1.1	1.0	1.2 E3	19.09
7) LM2 AR1260 (1)	3.3	2.7	4.4	4.2	3.1	2.8	3.4 E3	21.08
8) LM2 AR1260 (2)	2.3	2.0	2.9	2.7	2.2	2.0	2.4 E3	15.34
9) LM2 AR1260 (3)	5.1	4.4	5.9	5.5	4.9	4.4	5.0 E3	12.16
10) LM2 AR1260 (4)	3.2	2.6	3.8	3.6	3.1	2.9	3.2 E3	14.04
11) LM2 AR1260 (5)	1.2	1.2	1.2	1.2	1.2	1.2	1.2 E3	3.10
12) S Decachlorobiphenyl	45.0	36.3	54.3	51.0	42.1	37.4	44.3 E3	16.31

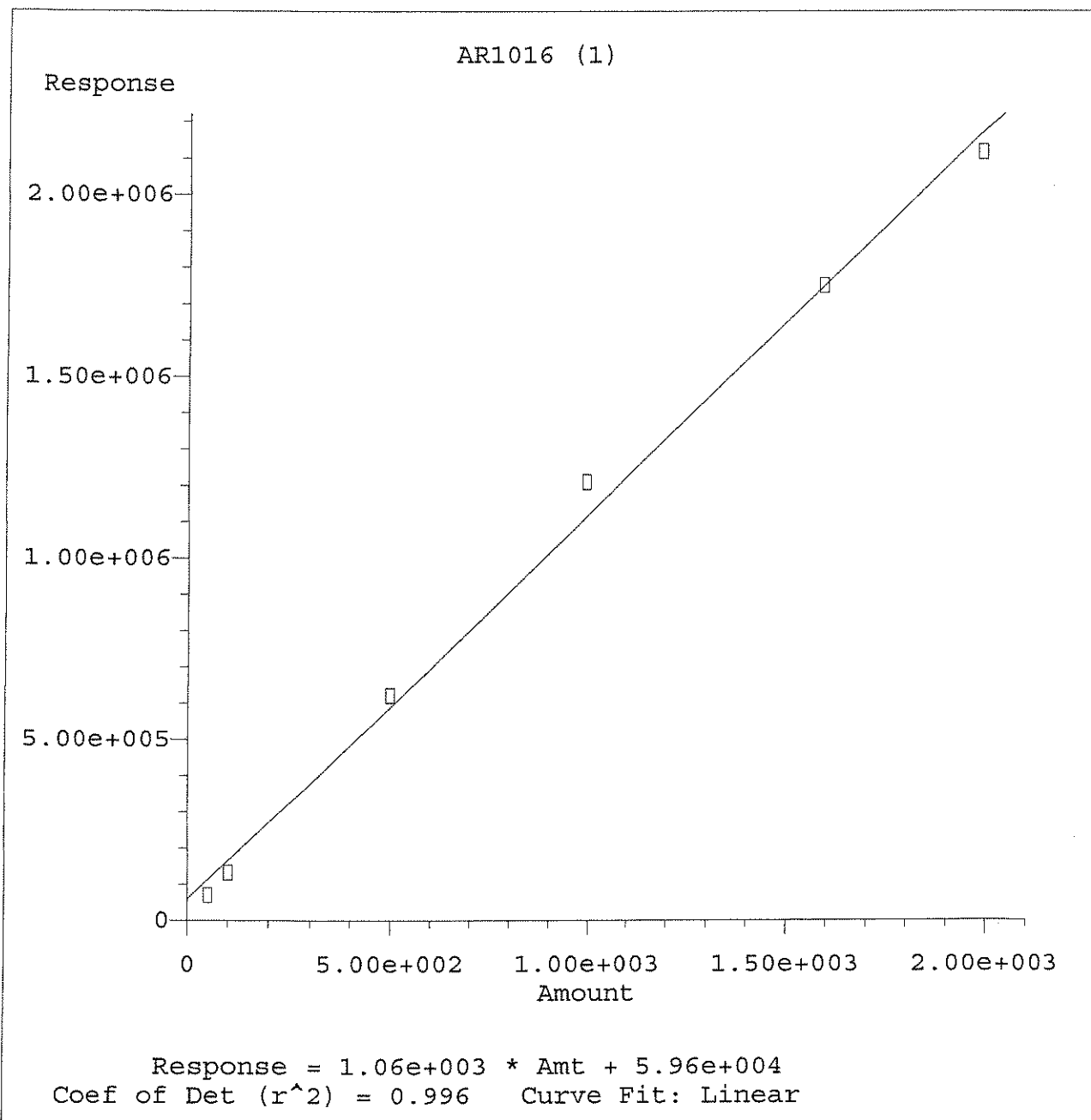


Tetrachloro-m-xylene

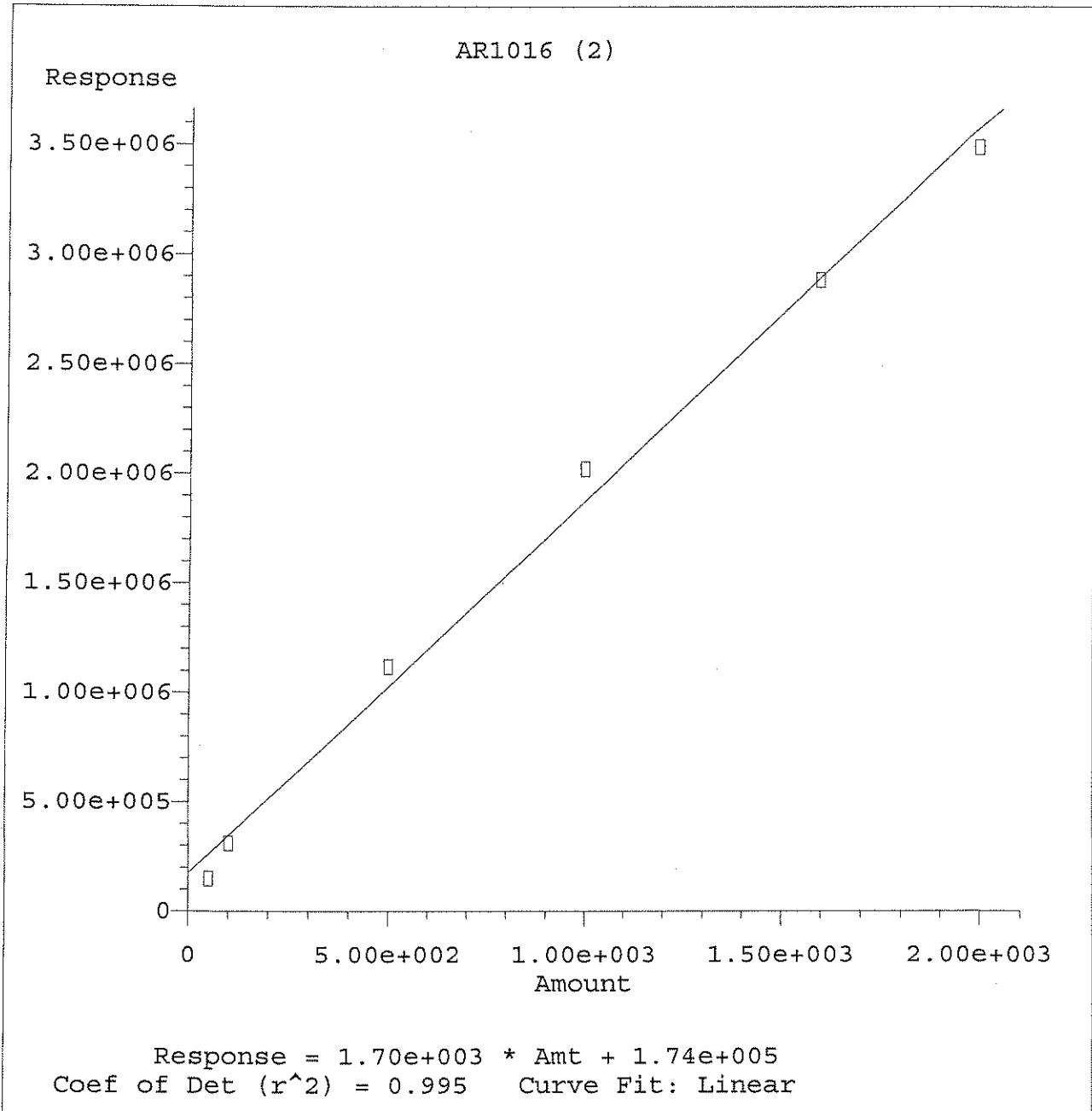


Response = 5.26e+004 \* Amt + 8.24e+004  
Coef of Det (r^2) = 0.995 Curve Fit: Linear

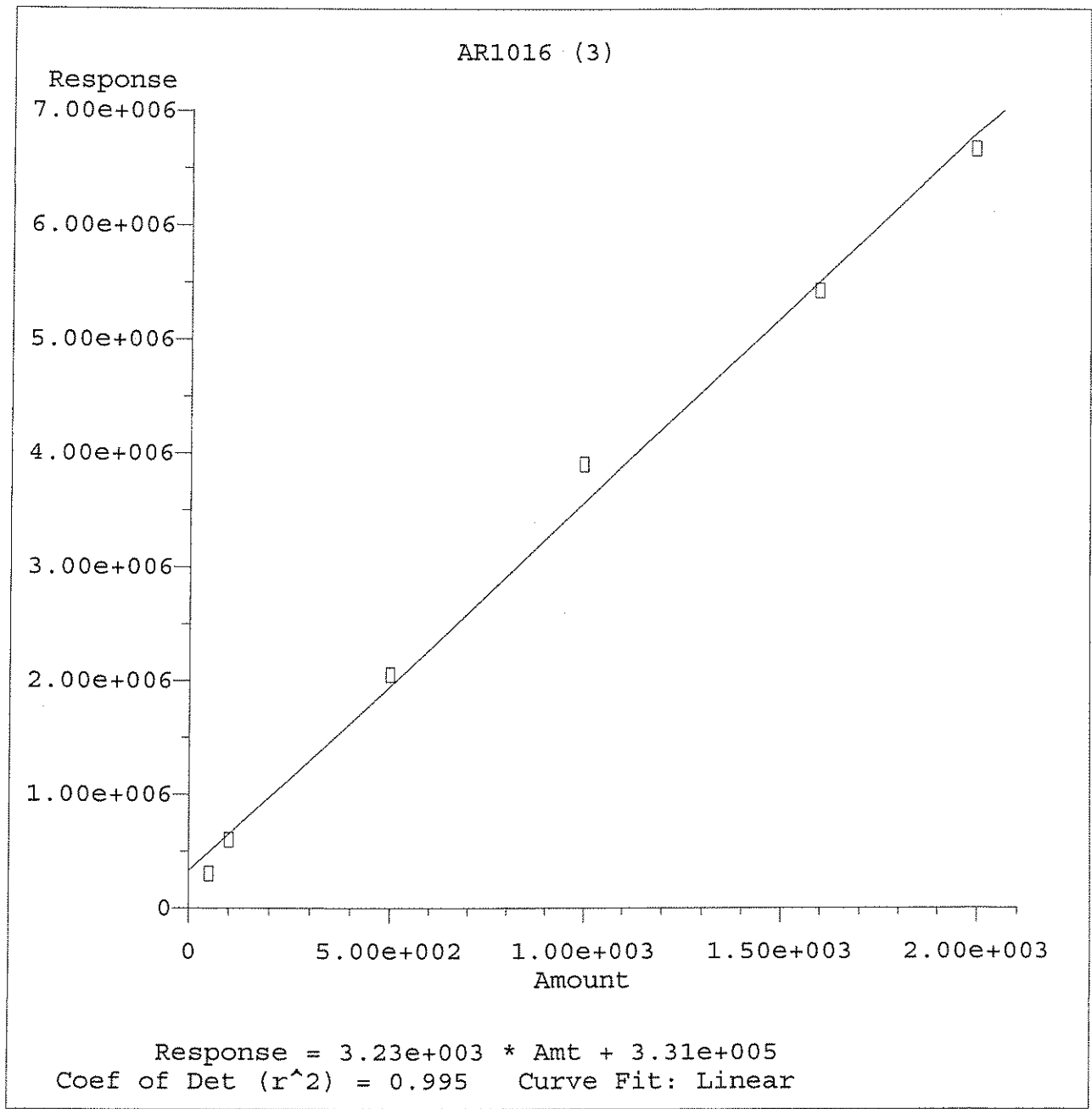
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



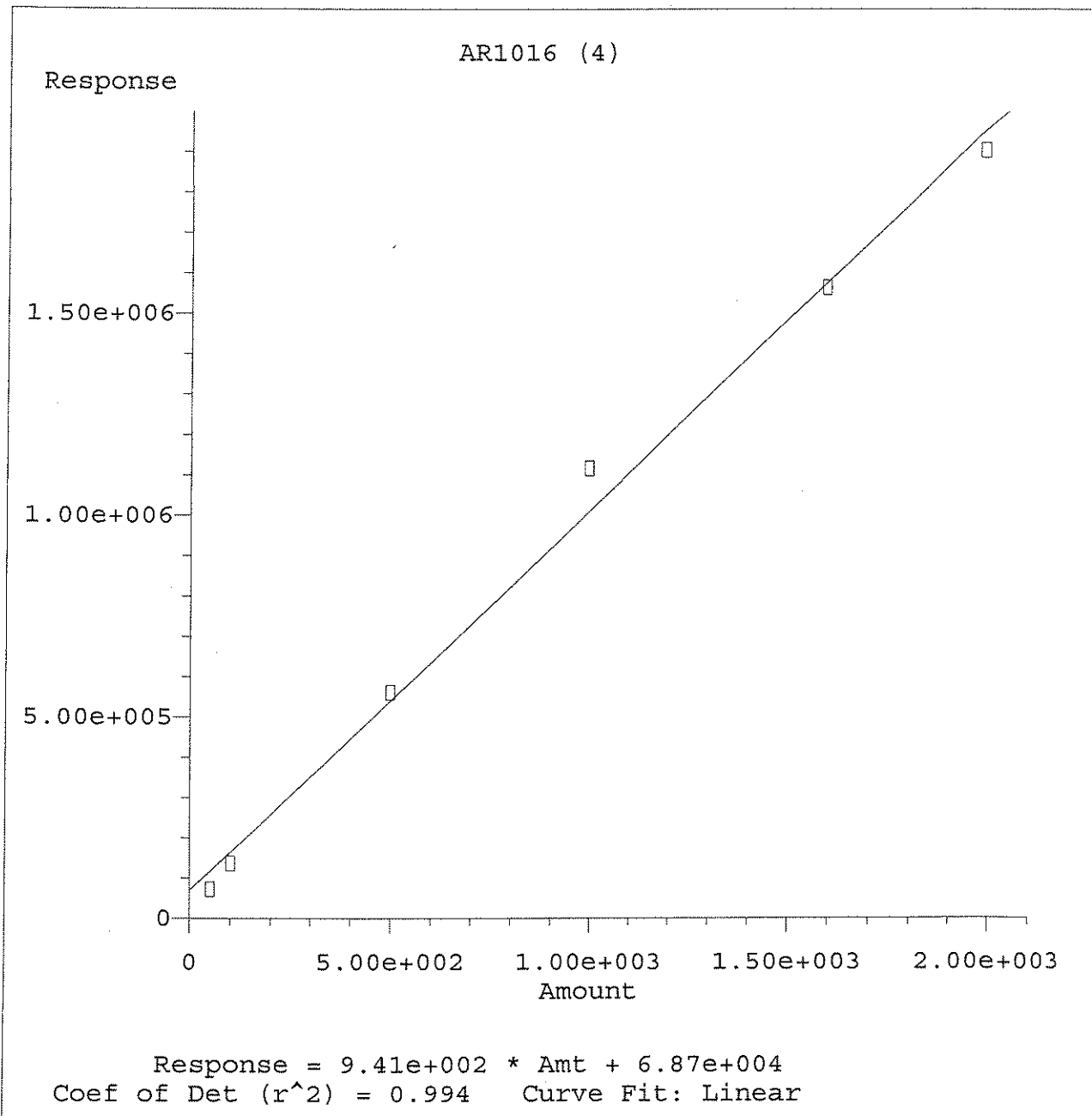
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



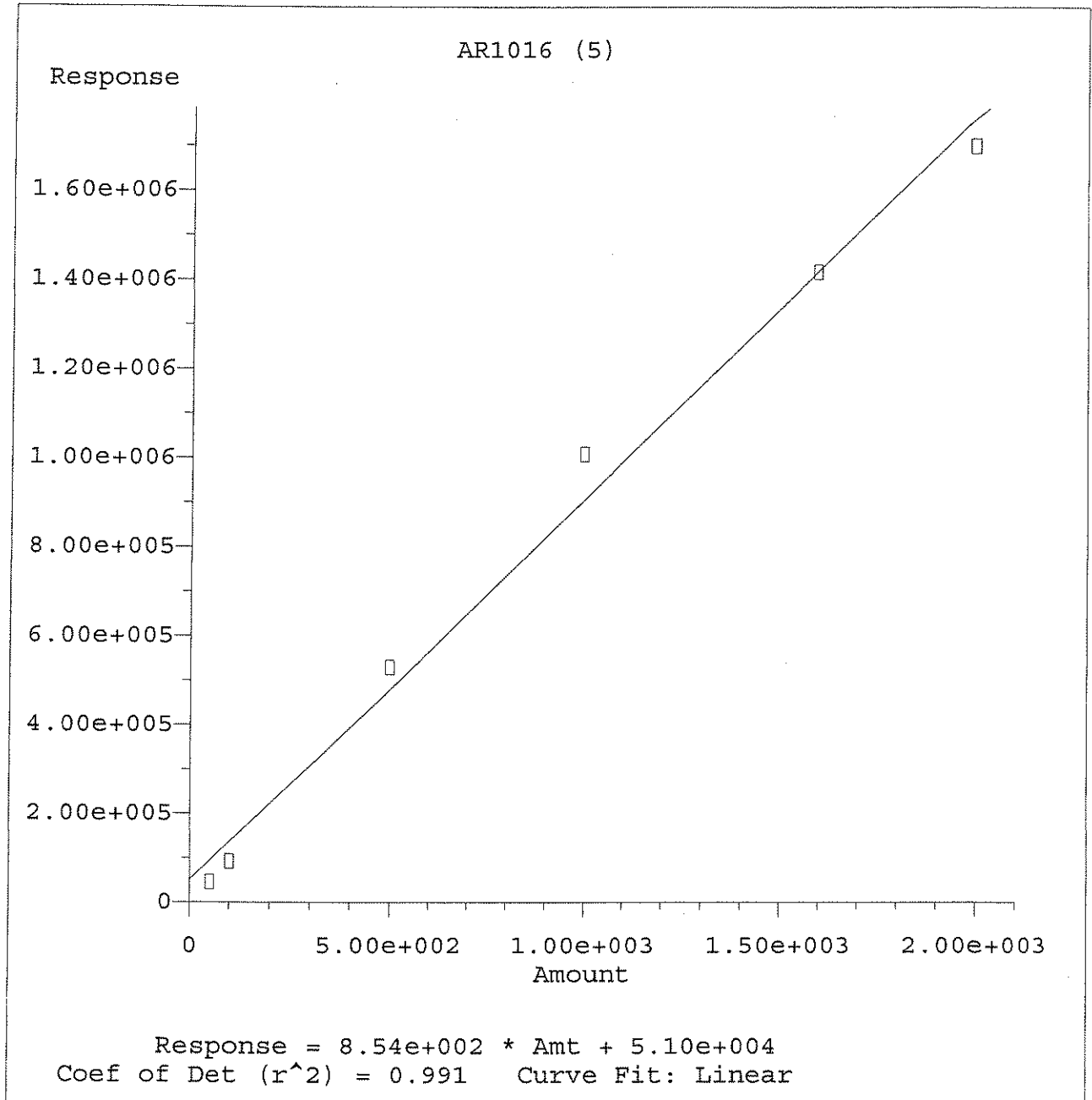
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



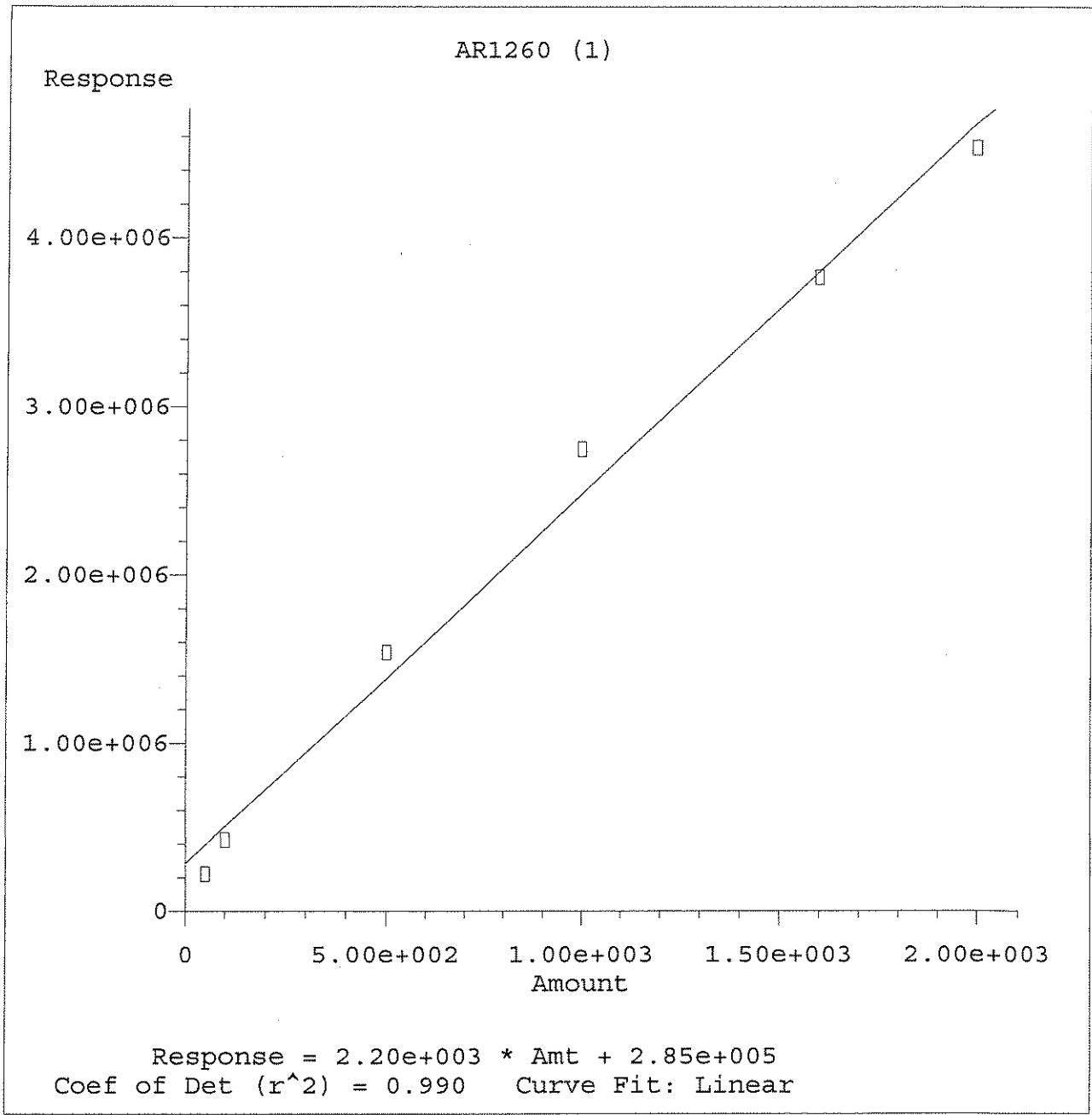
Method Name: Q:\SVQA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



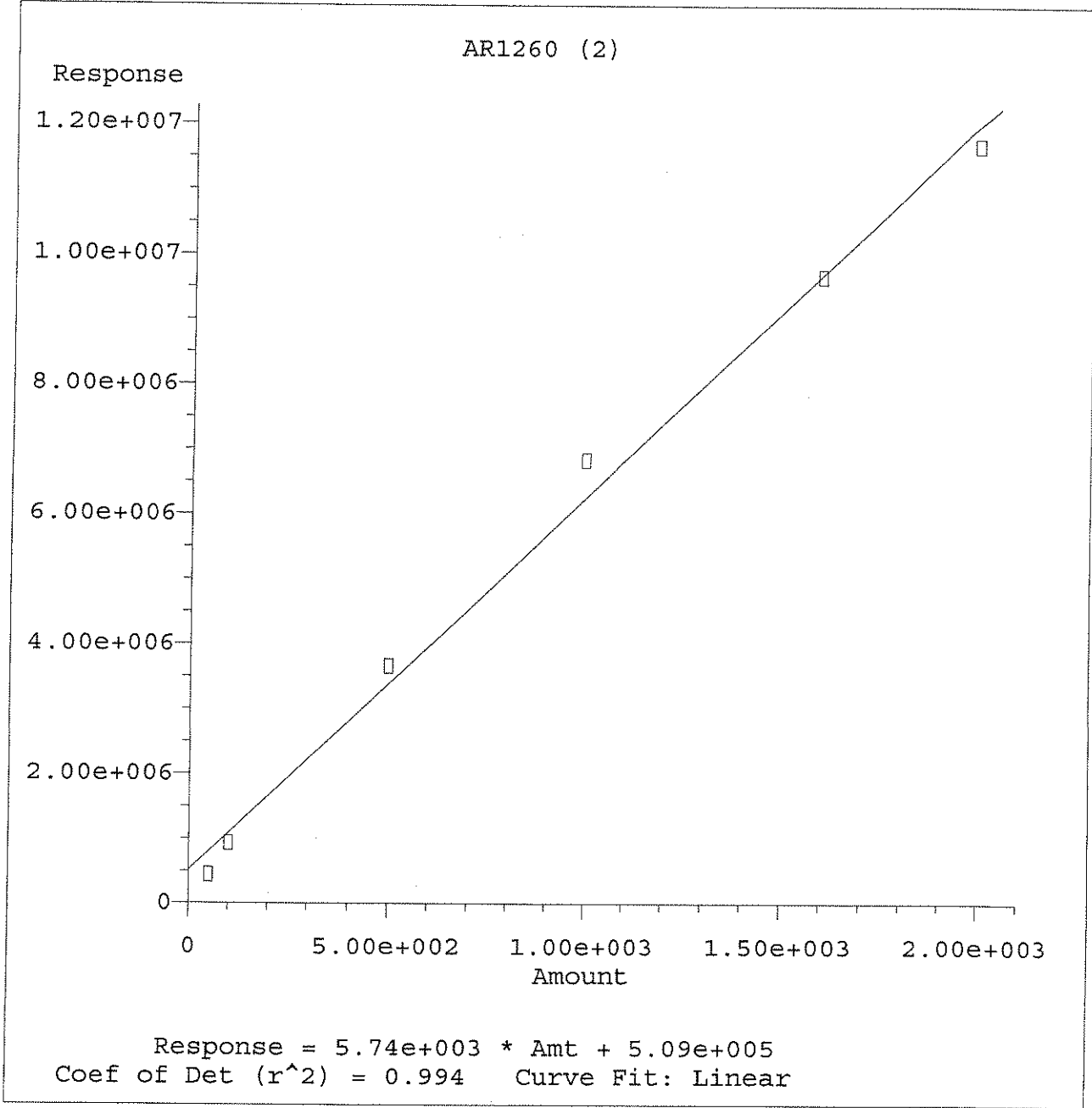
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



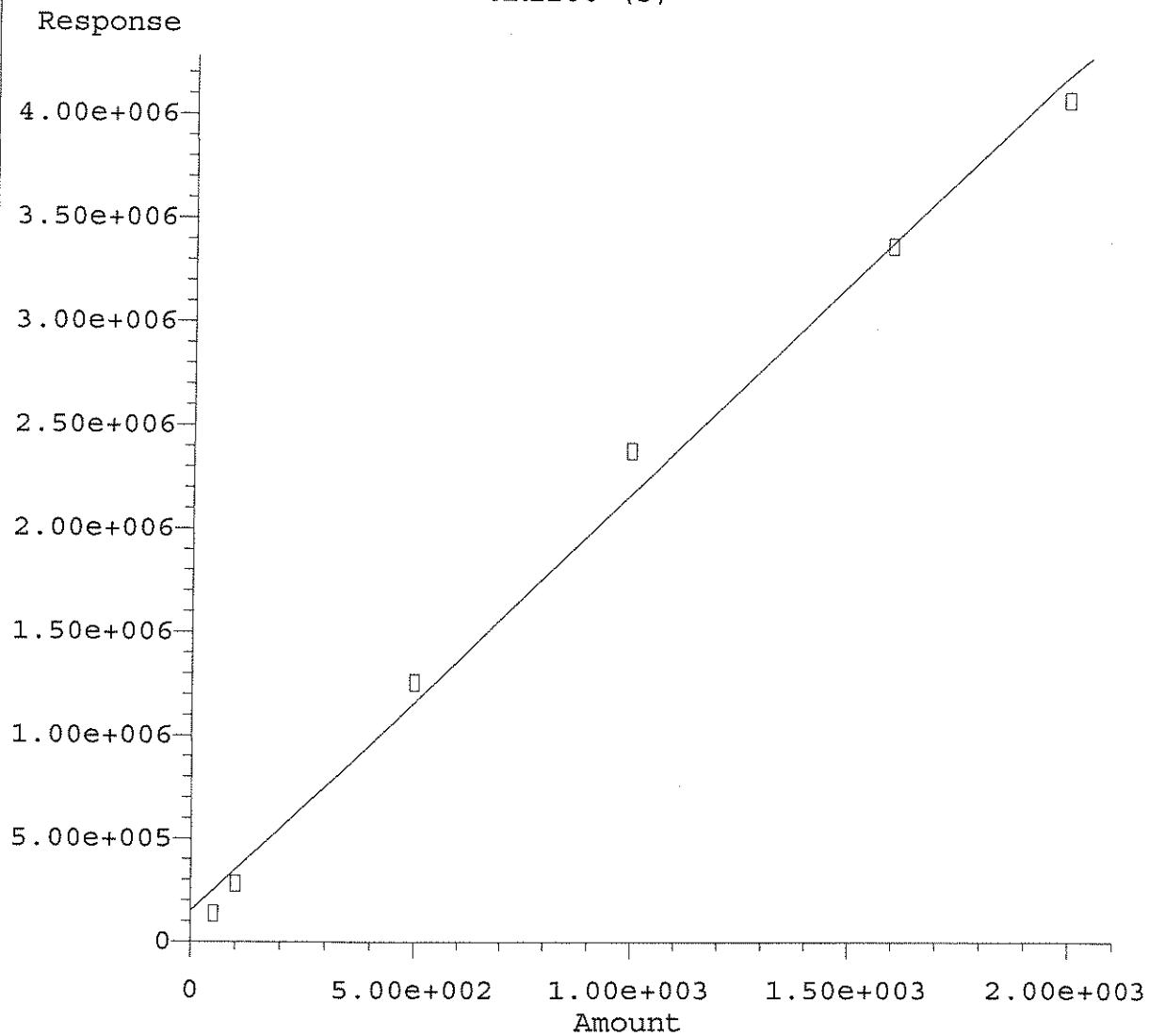
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

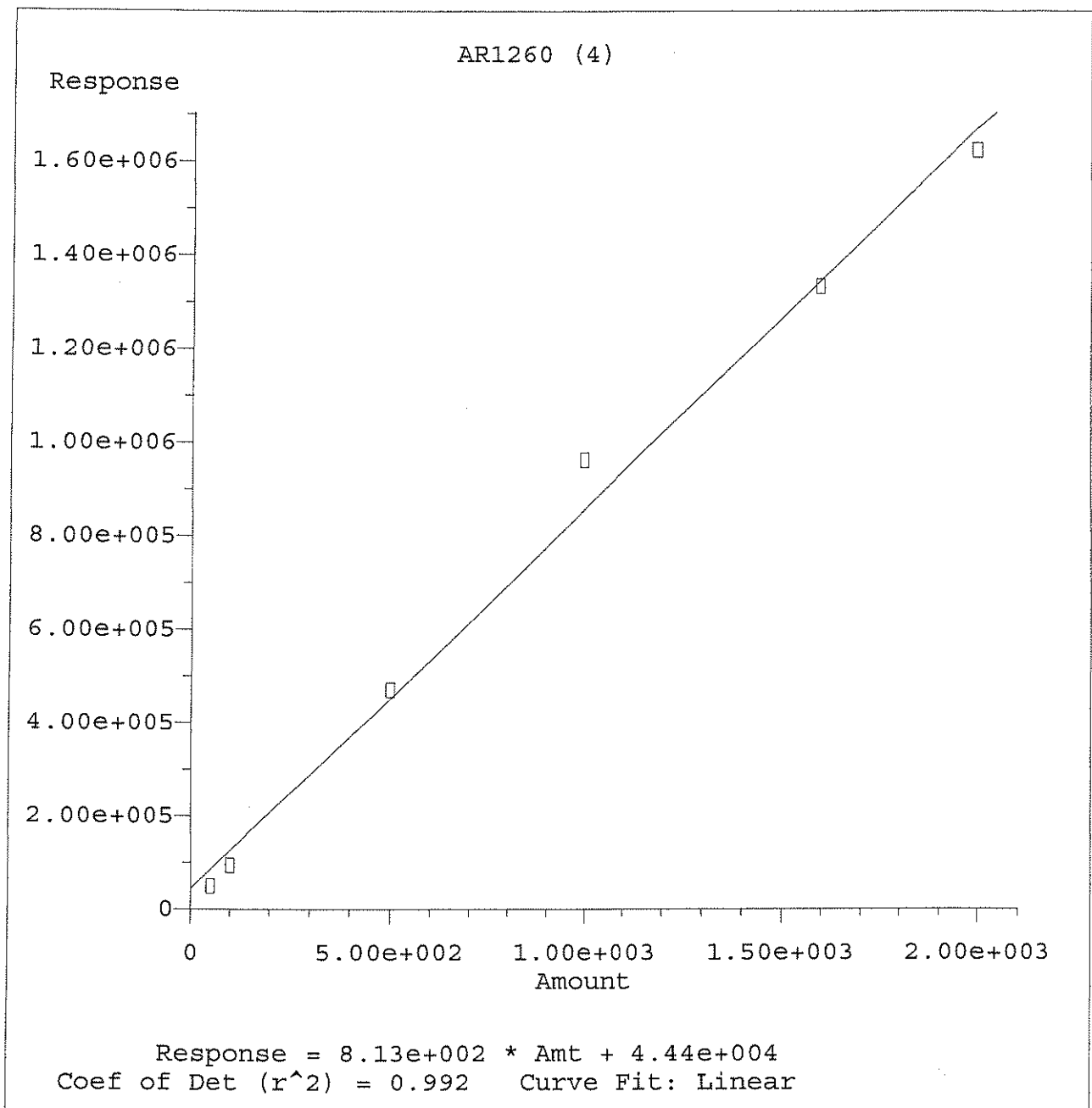


AR1260 (3)

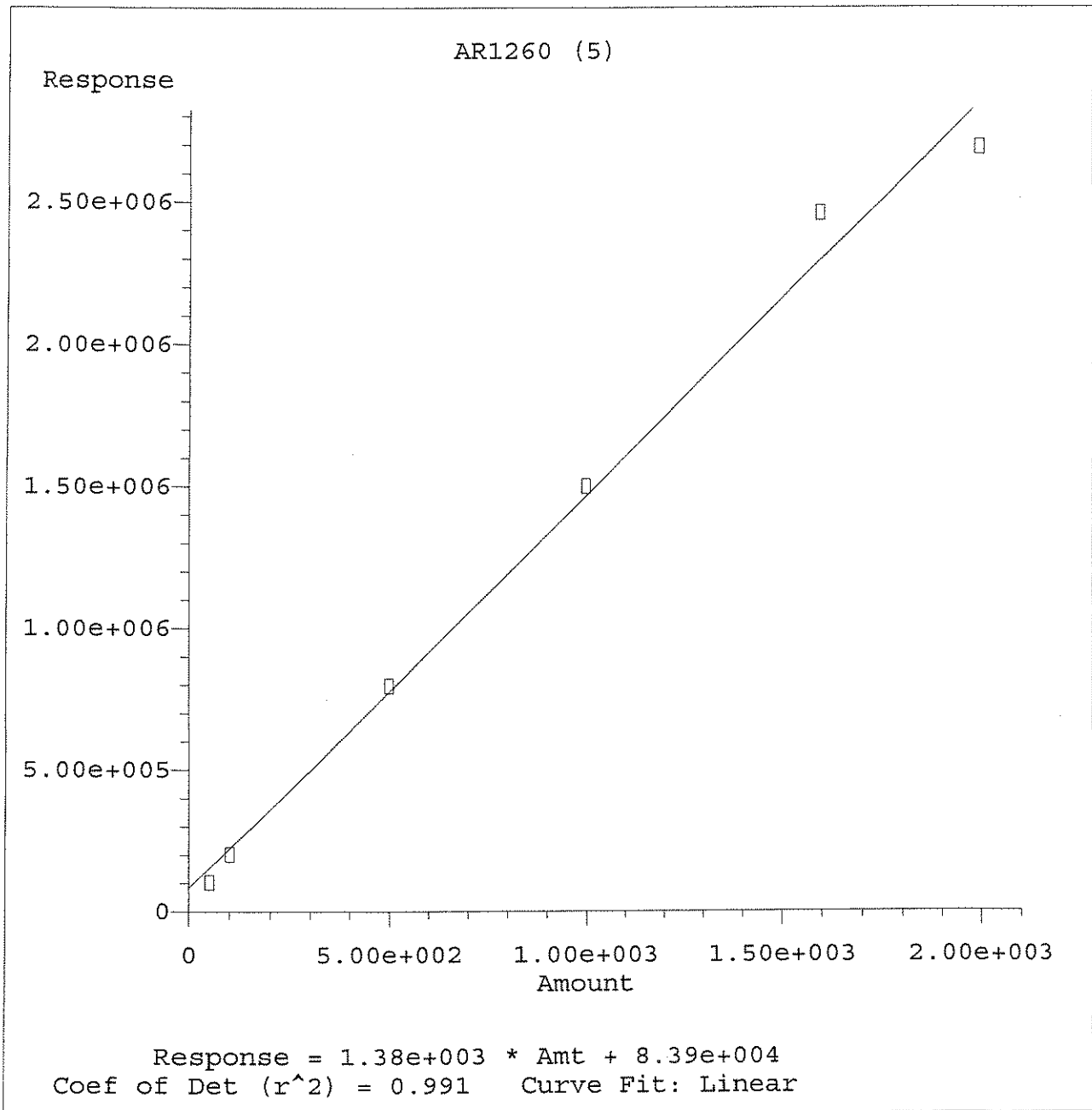


Response = 2.02e+003 \* Amt + 1.50e+005  
Coef of Det (r^2) = 0.994 Curve Fit: Linear

Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

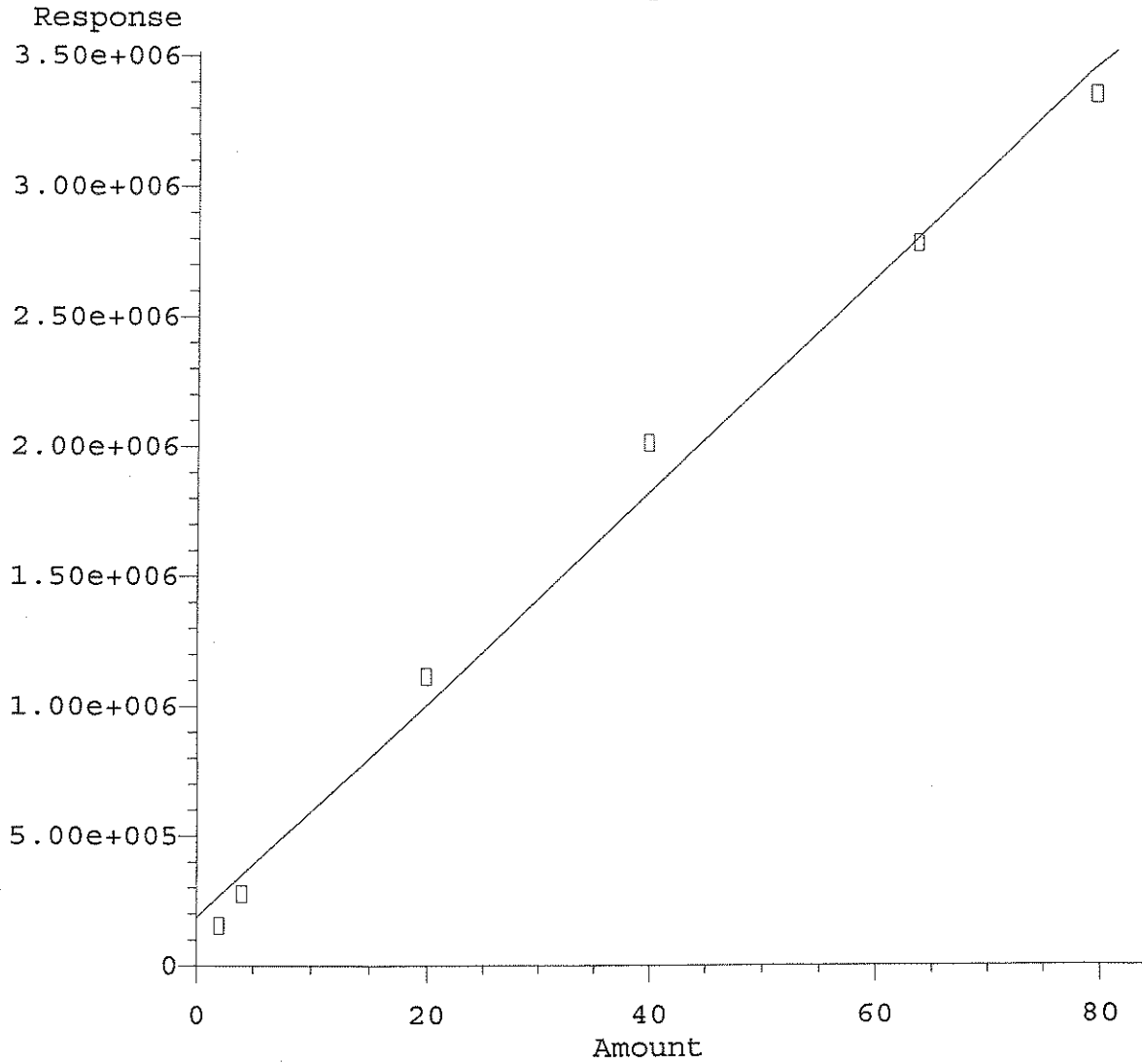


Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



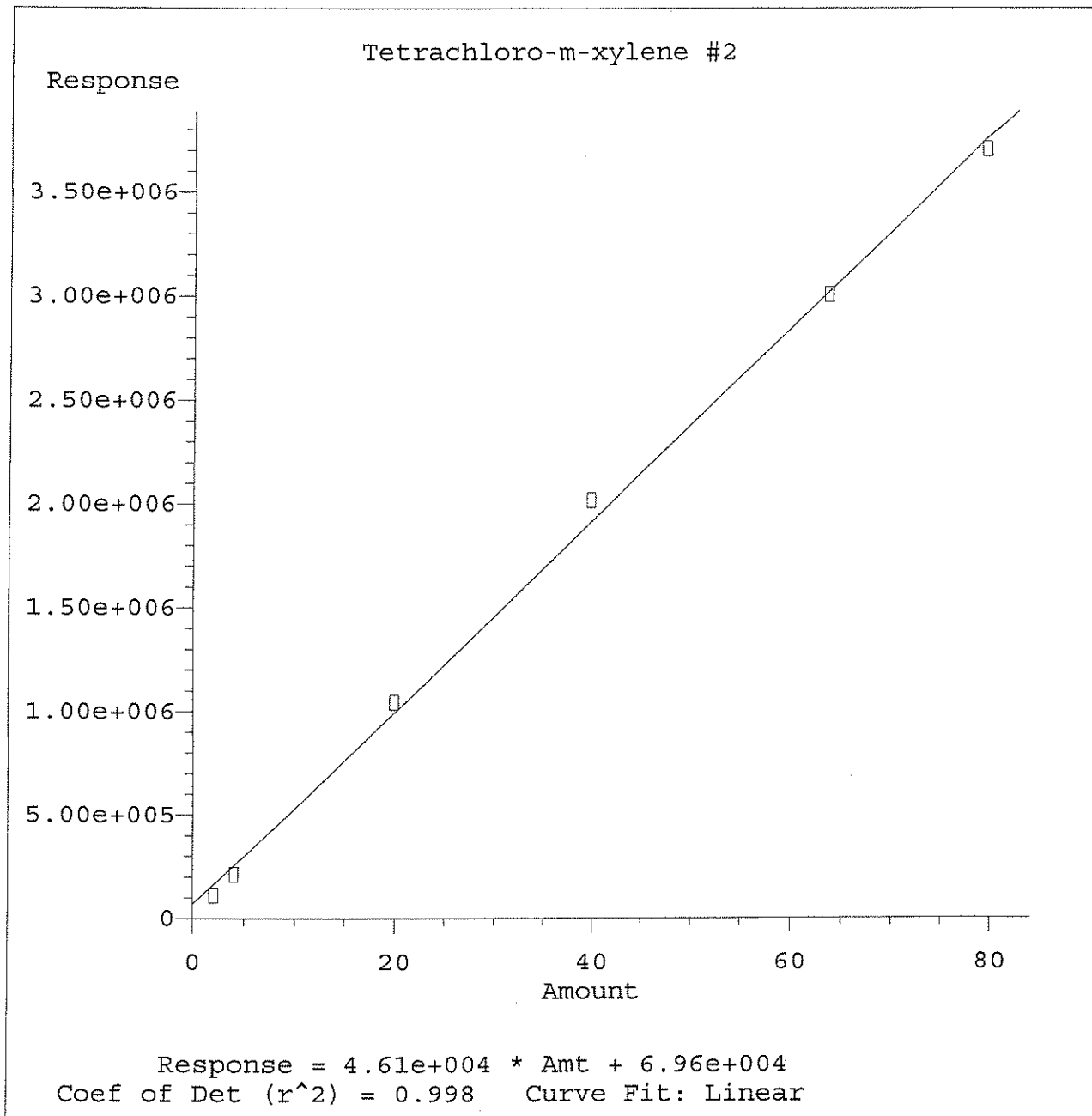
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

Decachlorobiphenyl



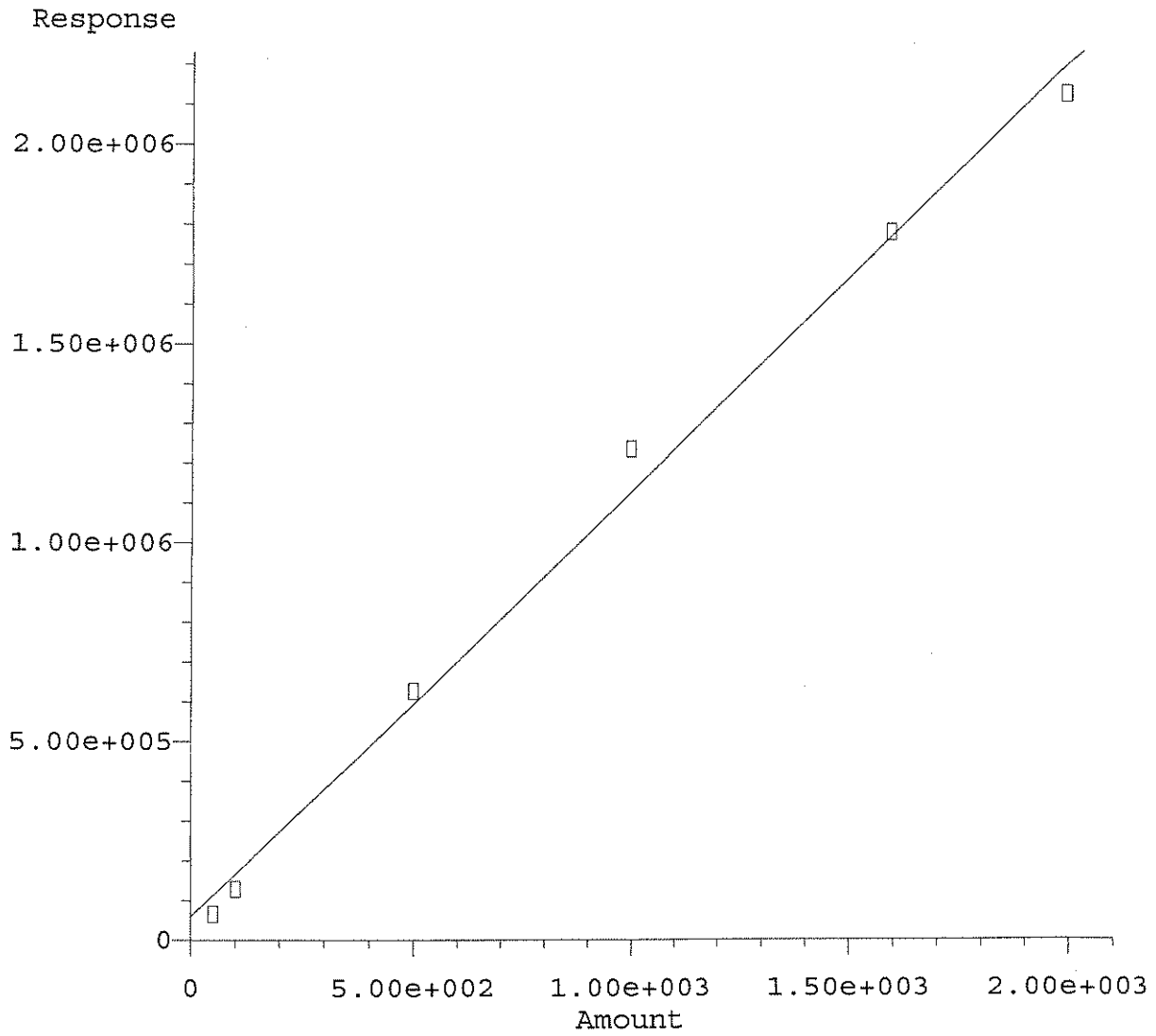
Response =  $4.08e+004 * Amt + 1.86e+005$   
Coef of Det ( $r^2$ ) = 0.991 Curve Fit: Linear

Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

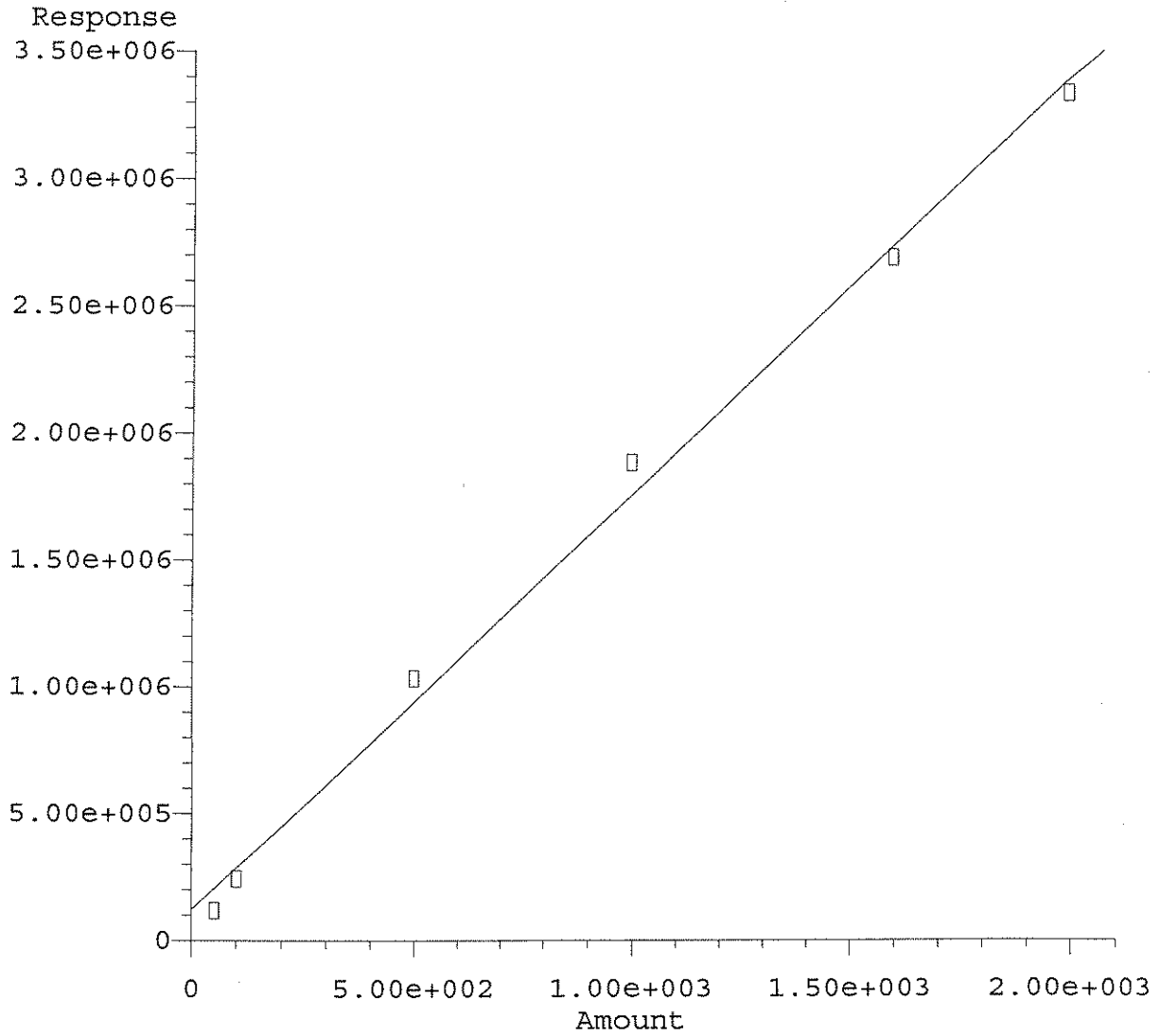
AR1016 (1) #2



Response = 1.07e+003 \* Amt + 5.95e+004  
Coef of Det (r^2) = 0.994 Curve Fit: Linear

Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

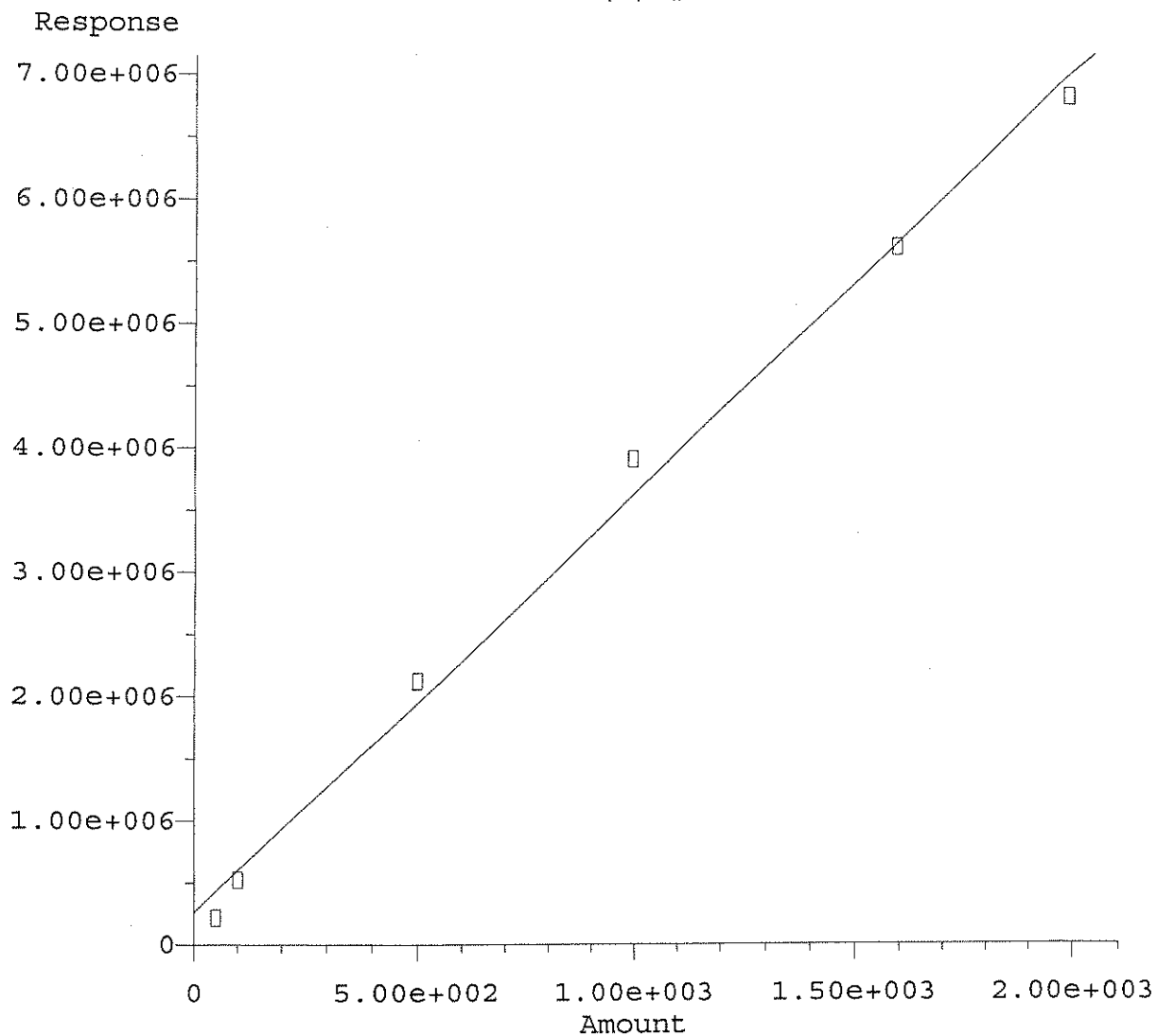
AR1016 (2) #2



Response = 1.63e+003 \* Amt + 1.24e+005  
Coef of Det (r<sup>2</sup>) = 0.995 Curve Fit: Linear

Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

AR1016 (3) #2

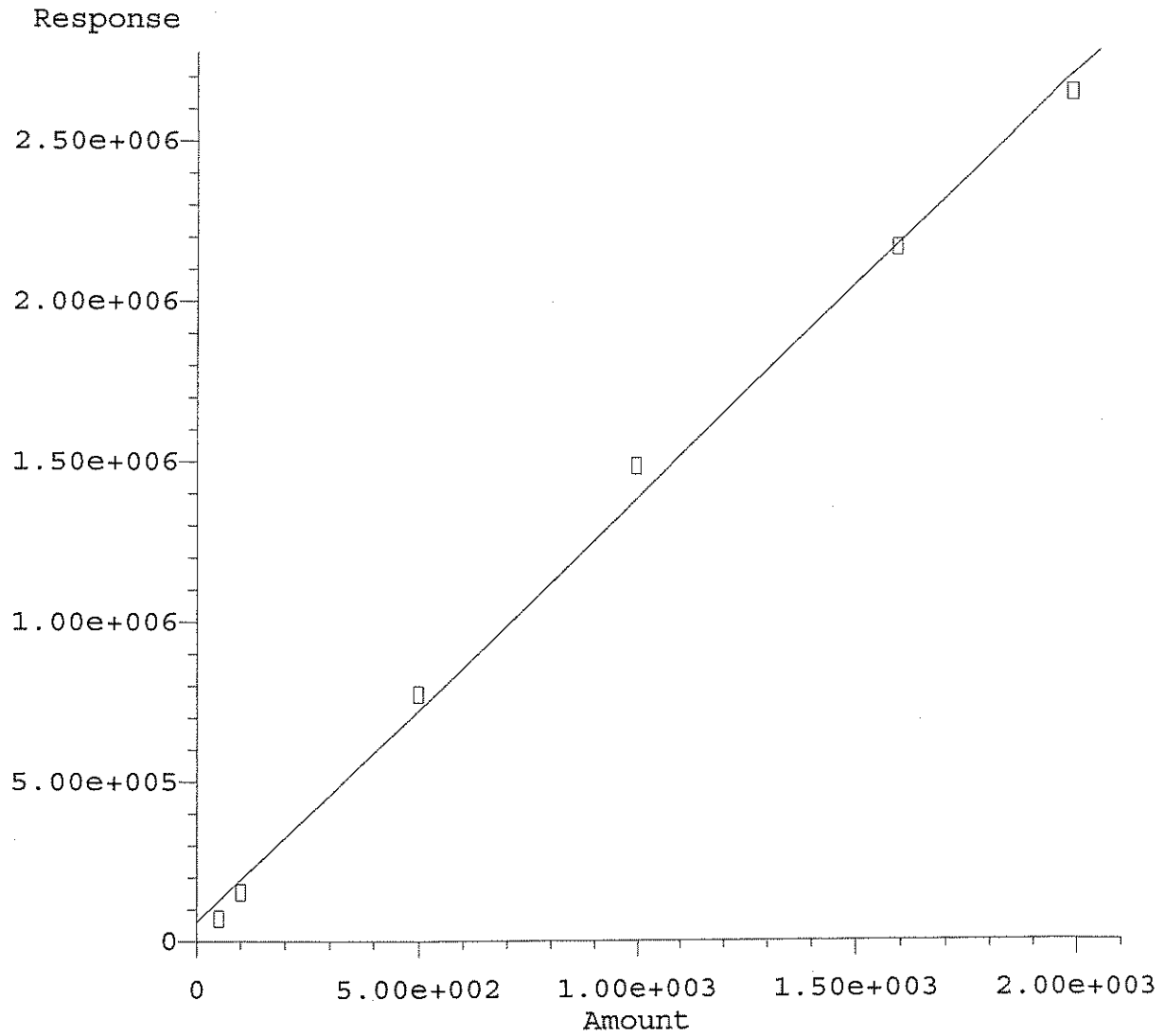


Response = 3.35e+003 \* Amt + 2.62e+005  
Coef of Det (r^2) = 0.995 Curve Fit: Linear

Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



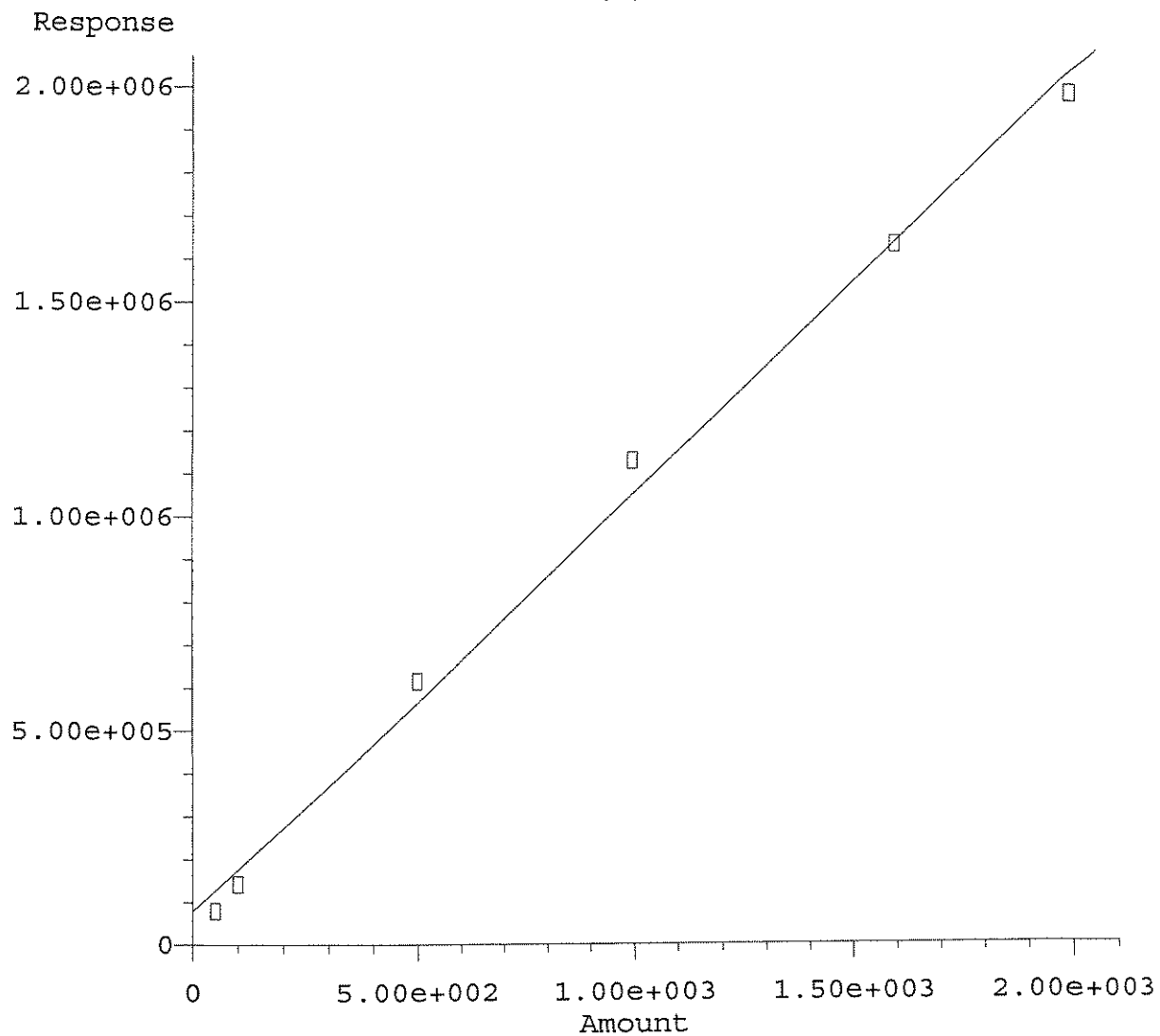
AR1016 (4) #2



Response = 1.32e+003 \* Amt + 5.98e+004  
Coef of Det (r<sup>2</sup>) = 0.996 Curve Fit: Linear

Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

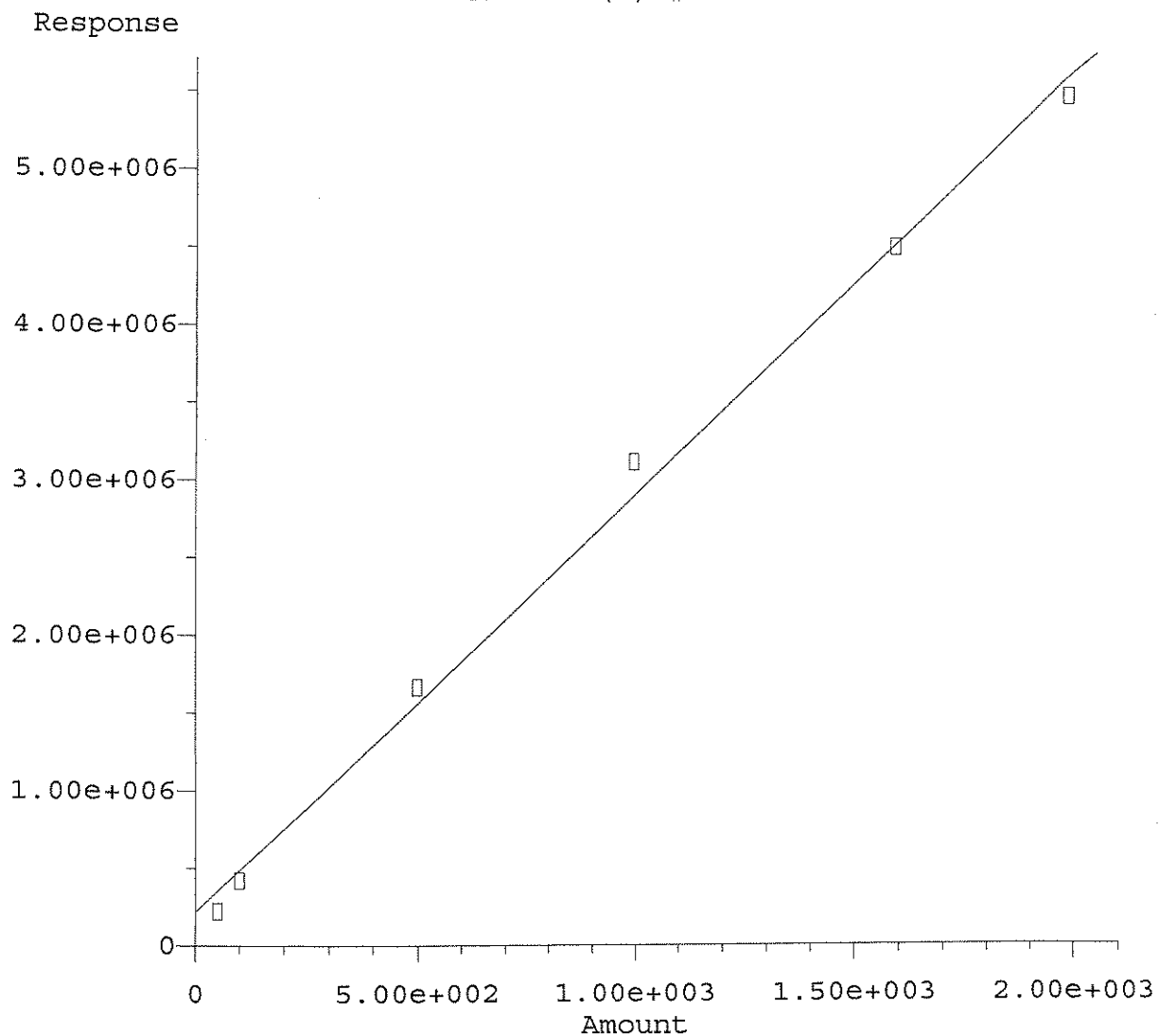
AR1016 (5) #2



Response =  $9.71e+002 * Amt + 7.77e+004$   
Coef of Det ( $r^2$ ) = 0.995 Curve Fit: Linear

Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

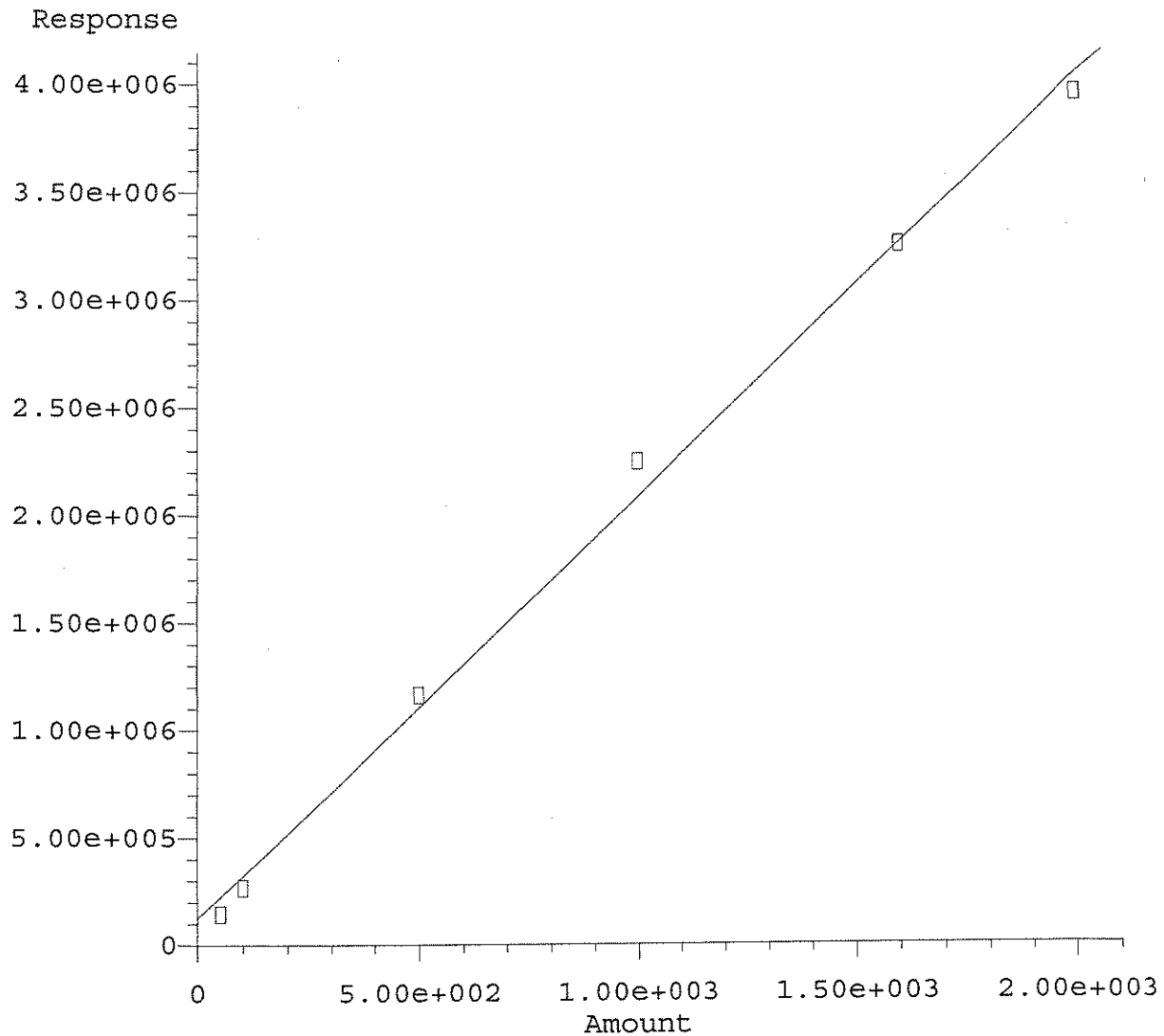
AR1260 (1) #2



Response = 2.67e+003 \* Amt + 2.18e+005  
Coef of Det (r^2) = 0.996 Curve Fit: Linear

Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

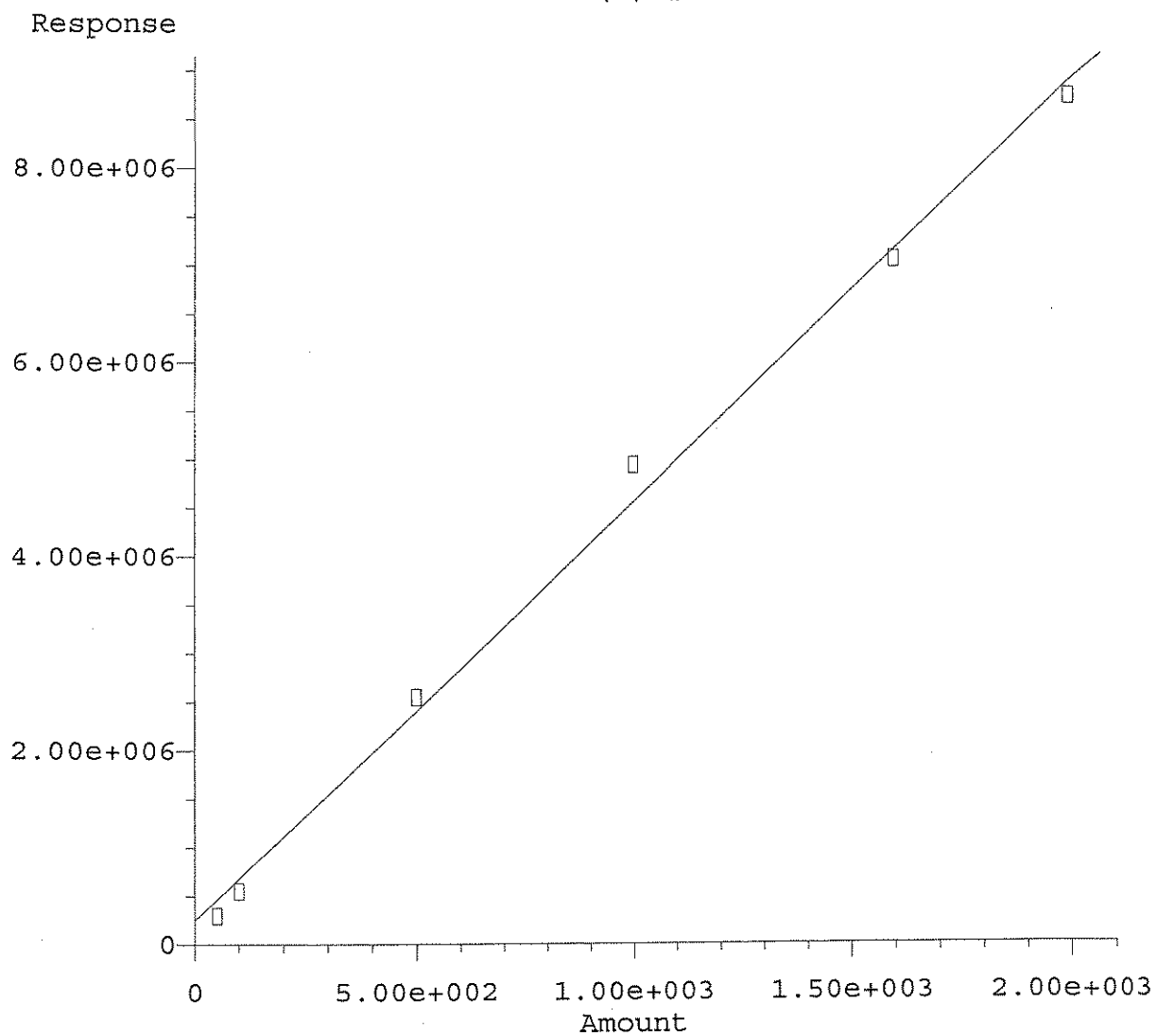
AR1260 (2) #2



Response = 1.96e+003 \* Amt + 1.25e+005  
Coef of Det (r<sup>2</sup>) = 0.996 Curve Fit: Linear

Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

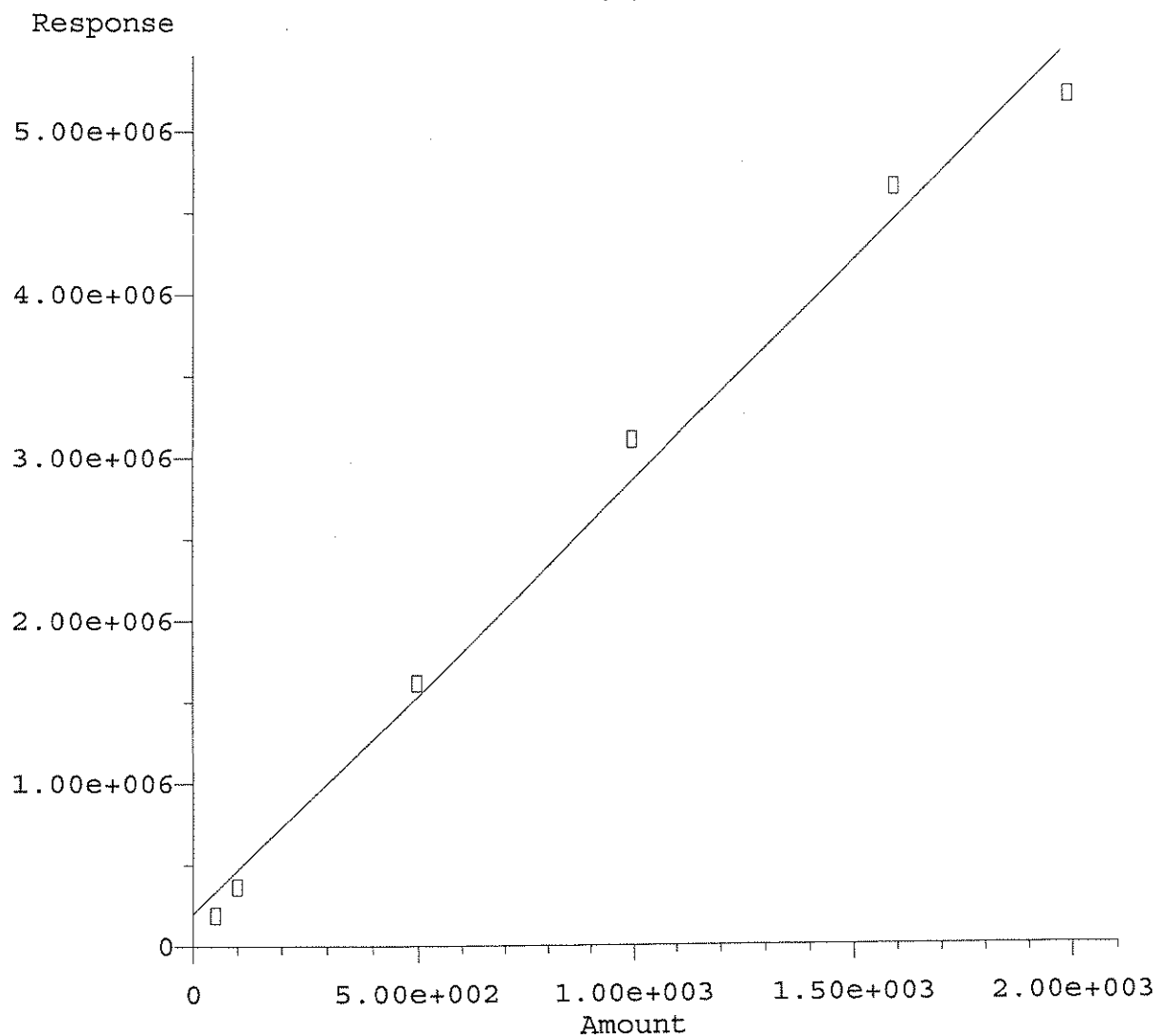
AR1260 (3) #2



Response = 4.30e+003 \* Amt + 2.50e+005  
Coef of Det (r^2) = 0.996 Curve Fit: Linear

Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

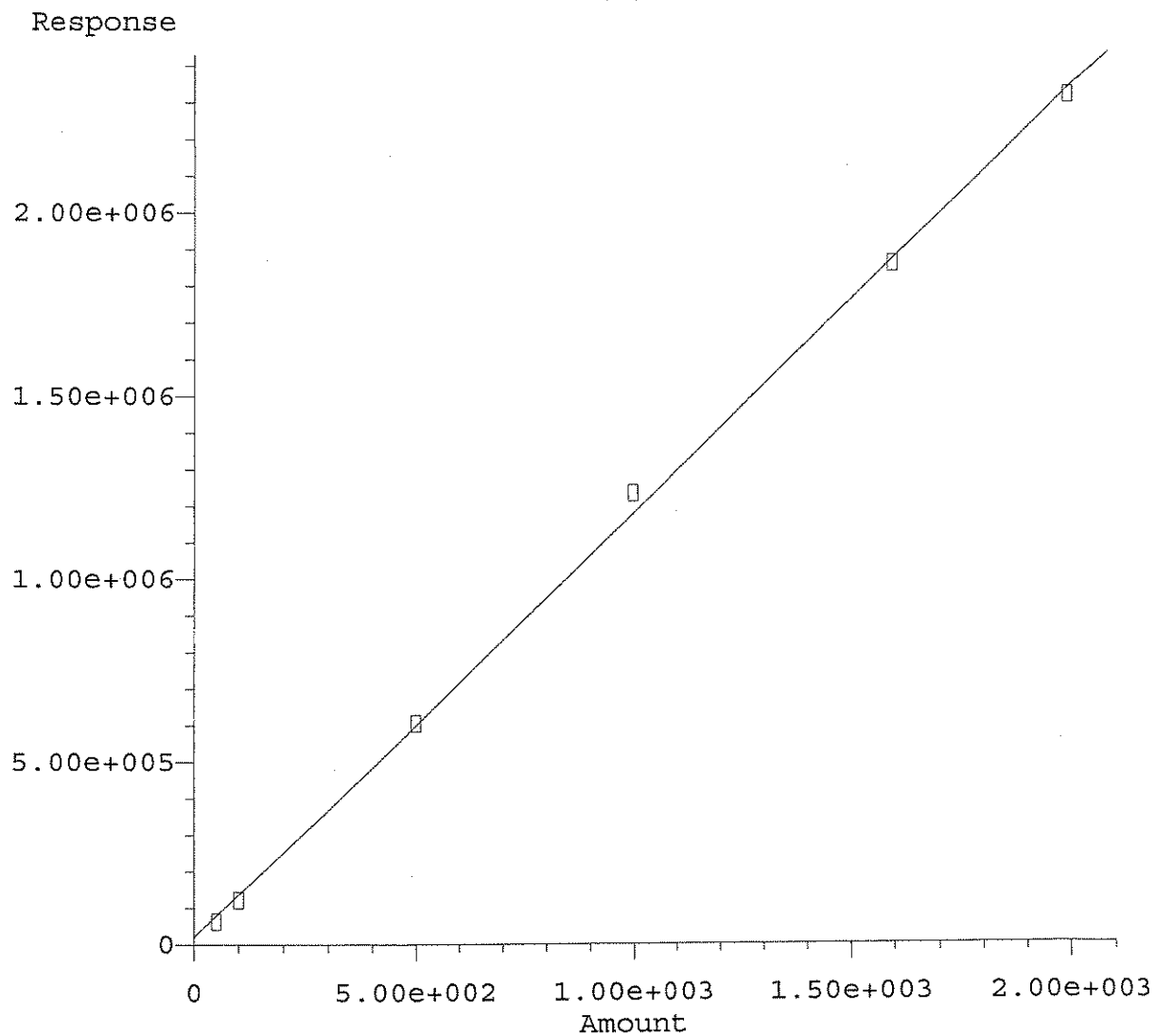
AR1260 (4) #2



Response = 2.65e+003 \* Amt + 2.00e+005  
Coef of Det (r^2) = 0.990 Curve Fit: Linear

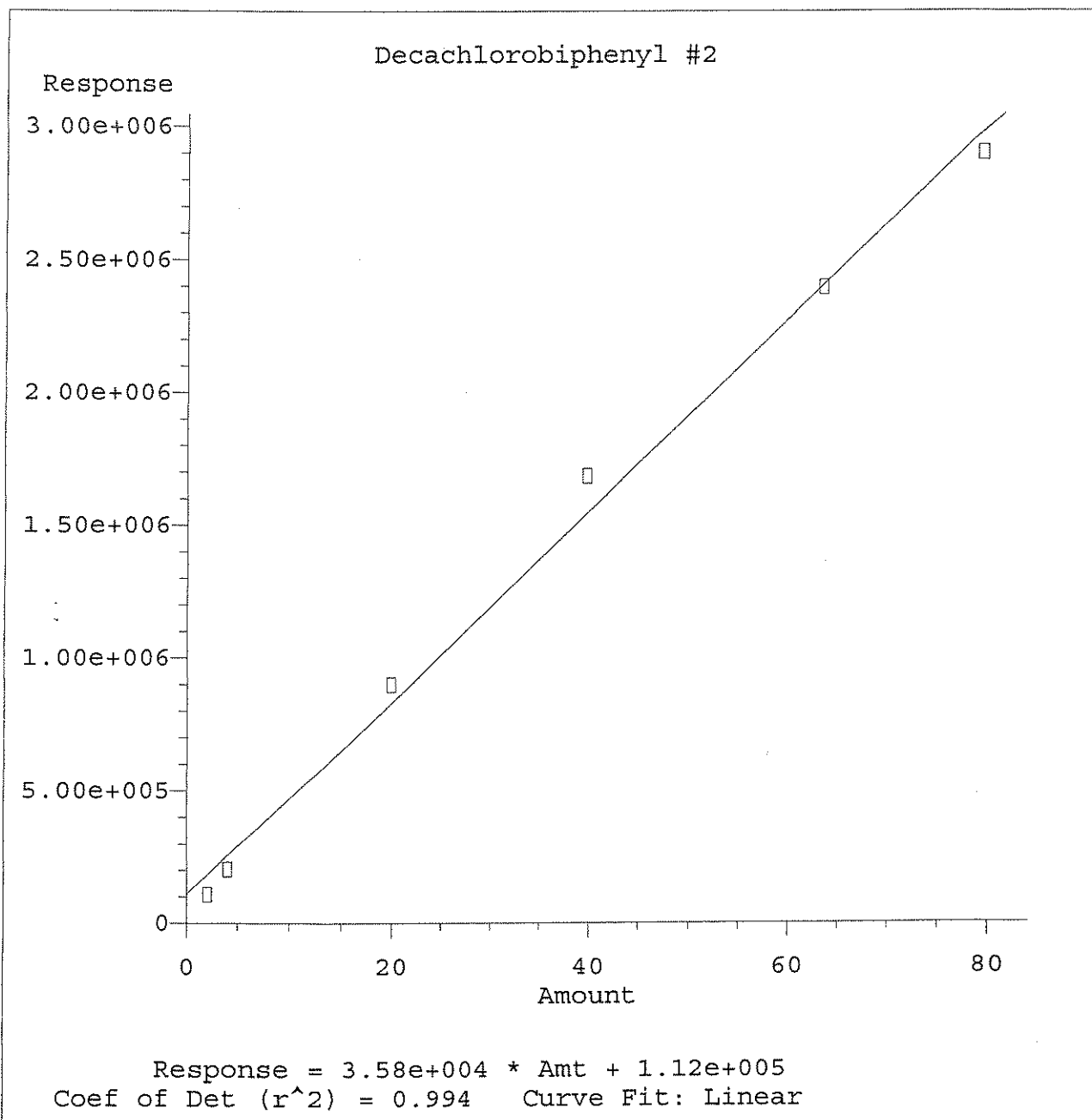
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

AR1260 (5) #2



Response = 1.16e+003 \* Amt + 2.10e+004  
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



ANALYSIS SEQUENCE

BPG0244

Instrument: SVOAGC5

Calibration ID: ~~UNASSIGNED~~ 8082CX

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0244-CCV1	QC		1		6F20058		
0606346-02RE1	SVOC: 8081A ppb Pesticides	O	2				MACTEC Engineering & Consulting, In
0606346-03RE1	SVOC: 8081A ppb Pesticides	O	3				MACTEC Engineering & Consulting, In
BPG0244-CCV2	QC		4		6F13062		

\_\_\_\_\_  
 Samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

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\_\_\_\_\_  
 Data Processed By \_\_\_\_\_ Date \_\_\_\_\_

# ESS LABORATORY GC 5 RUN LOG

COLUMN RTX CL Pesticide / RTX CL Pesticide II

Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/22/11	39	6002606-39	0603374-33	800009		M
	40	-40	0603374-33			
	41	-41	BF62333-01K1			
	42	-42	BF62333-01K1			
	43	-43	BF62333-01K1			
	44	-44	0603334-01			
	45	-45	0603334-01			
	51	-51	166009			
	52	-52	166009		BF23058	
	53	-53	124200		59	4:15 AM
	54	-54	124804		60	
	55	-55	124900		61	
6/22/11	52	6002606-52	166009	800009	BF23058	N
6/23/11	1	66062806-01	166009	800009		M
	2	-02	166009		BF23058	
	3	-03	124200		59	
	4	-04	124804		60	
6/23/11	5	66062806-05	124900	800009	BF23061	N
6/23/11	1	66062806-01	166009	800009	BF23058	M
	2	-02	166009		BF23058	
	3	-03	124200		59	
	4	-04	124804		60	
	5	-05	124900		BF23061	
	6	-06	BF62219-01K1		5X CONC	
	7	-07	0603374-01		5X CONC	
	8	-08	0603374-01		5X CONC	
	9	-09	0603374-01		5X CONC	
	10	-10	0603372-030		5X CONC	
	11	-11	0603372-030			
6/23/11	12	6004000-12	BF62219-01K1	800009	5X CONC	N

CONTROL NUMBER 60.0031-0603A

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2011/06/23

# ESS LABORATORY GC 5 RUN LOG

COLUMN RTX CL Pesticide / RTX CL Pesticide II

Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/28/06	13	66002806-13	0606385-01	8002CX	59	
	14	-14	0606397-01		59	
	15	-15	0606383-03		Bad Injection	
	16	-16	-05		ND	
	17	-17	-07		ND	
	18	-18	-10		ND	
	19	-19	0606389-01		ND	
	20	-20	-02		ND	
	21	-21	0606392-01		RTx20	
	22	-22	-9		RTx20	
	23	-23	0606397-14		ND	
	24	-24	0606447-01		ND	
	25	-25	-4		ND	
	26	-26	110			
	27	-27	16604		6F2308	
	28	-28	12900		59	
	29	-29	12904		6F2306	
	31	-31	BF62803-B14			
	30	-30	12900		6F2301	
	32	-32	BF62803-B5			
	33	-33	-A301			
	34	-34	BF62834-91K			
	35	-35	-B31			
	36	-36	-A301			
	37	-37	0606475-01		ND	
	38	-38	0606467-01		RT high - manual	
	39	-39	-02		60, 59, 92 RTx5	
	40	-40	-03		60, 59, 92 mxt	
	41	-41	-04		59 RTx10	
6/28/06	42	66002806-42	-05	8002CX	59 RTx10	

Quantitation Report

Signal #1 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062806\002F0101.D Vial: 2  
 Signal #2 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062806\002F0101.D\002R0101.D  
 Acq On : 28 Jun 06 08:50 AM Operator: [GC]2R0101.D\DATA.MS  
 Sample : 1660 CC Inst : GC5  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 29 8:59 19106

Method : Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Title :  
 Last Update : Mon Jul 10 09:21:55 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 2 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xylen	3.58	5.19	2129668	1800710	38.919	37.565
			Recovery	=	77.84%	75.13%
12) S Decachlorobiphenyl	9.86	12.22	1929432	1568231	42.692	40.669
			Recovery	=	85.38%	81.34%
Target Compounds						
2) LM1 AR1016 (1)	4.11	5.89	1034614	1021854	923.842	901.953
3) LM1 AR1016 (2)	4.58	6.43	1809918	1745199	962.718	993.929
4) LM1 AR1016 (3)	5.15	7.00	3531780	3352556	989.905m	921.542
5) LM1 AR1016 (4)	5.88	7.29	1019718	1205901	1010.364	868.133
6) LM1 AR1016 (5)	6.21	7.71	893331	971171	985.844	919.821
Total AR1016 (1)			8289361	8296681	4872.674	4605.377
Average AR1016 (1)					974.535	921.075
7) LM2 AR1260 (1)	7.13	9.36	2644630	2747497	1074.338	946.637
8) LM2 AR1260 (2)	8.43	10.17	6986613	1934361	1127.942	924.362
9) LM2 AR1260 (3)	8.81	10.44	2469139	4578834	1148.644	1005.781
10) LM2 AR1260 (4)	9.10	10.83	1003032	2805176	1179.600m	982.063m
11) LM2 AR1260 (5)	9.36	11.47	1467900	1128947	1002.937m	958.661
Total AR1260 (1)			14571314	13194814	5533.462	4817.504
Average AR1260 (1)					1106.692	963.501

Quantitation Report

Signal #1 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062806\027F0101.D Vial: 27  
 Signal #2 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062806\027F0101.D\027R0101.D  
 Acq On : 28 Jun 06 04:30 PM Operator: [GC]7R0101.D\DATA.MS  
 Sample : 1660 CC Inst : GC5  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 29 9:45 19106

Method : Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Title :  
 Last Update : Mon Jul 10 09:21:55 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 2 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xylen	3.58	5.18	2137634	1853506	39.070	38.711
			Recovery	=	78.14%	77.42%
12) S Decachlorobiphenyl	9.85	12.22	1842543	1555138	40.565	40.303
			Recovery	=	81.13%	80.61%
Target Compounds						
2) LM1 AR1016 (1)	4.11	5.89	1024582	1033987	914.337	913.325
3) LM1 AR1016 (2)	4.57	6.42	1837744	1803286	979.098	1029.549
4) LM1 AR1016 (3)	5.14	6.99	3700462	3666741	1042.067m	1015.223
5) LM1 AR1016 (4)	5.88	7.28	1059105	1307363	1052.210	944.990
6) LM1 AR1016 (5)	6.21	7.70	892511	1007125	984.885	956.838
Total AR1016 (1)			8514403	8818503	4972.597	4859.923
Average AR1016 (1)					994.519	971.985
7) LM2 AR1260 (1)	7.13	9.35	2688629	2613161	1094.367	896.367
8) LM2 AR1260 (2)	8.42	10.17	6952892	1813827	1122.070	862.789
9) LM2 AR1260 (3)	8.80	10.43	2257192	4442756	1043.681	974.167
10) LM2 AR1260 (4)	9.09	10.83	949234	2855576	1113.398	1001.059m
11) LM2 AR1260 (5)	9.36	11.46	1536694	1157967	1052.791m	983.771
Total AR1260 (1)			14384640	12883288	5426.308	4718.152
Average AR1260 (1)					1085.262	943.630

PCB  
Logbooks



**DETERMINATION OF PCDD/PCDF LEVELS**

**Prepared for:  
ESS Laboratory  
Attn: Jena Paola  
185 Frances Avenue  
Cranston, RI 02910-2211**



This report contains 14 pages.

The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

**Project: Chemical Analysis**

**Client Project Number: 0606346**

**REPORT OF LABORATORY ANALYSIS**

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**REPORT OF: CHEMICAL ANALYSES**

**PROJECT:** PCDD/PCDF ANALYSES

**DATE:** July 11, 2006

**ISSUED TO:** ESS Laboratory  
Attn: Jena Paola  
185 Frances Avenue  
Cranston, RI 02910-2211

**REPORT NO:** 06-1034230

**INTRODUCTION**

This report presents the results from the analyses performed on two samples submitted by a representative of ESS Laboratory. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290.

**SAMPLE IDENTIFICATION**

<u>Client ID</u>	<u>Sample Type</u>	<u>Date Received</u>	<u>PAGE ID</u>
0606346-02	Water	06/23/06	1034230001
0606346-03	Water	06/23/06	1034230002

**RESULTS**

The results are included in the following:

- Appendix A – Chain of Custody Documentation
- Appendix B – PCDD/PCDF Results

**REPORT OF LABORATORY ANALYSIS**

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**REPORT OF: CHEMICAL ANALYSES**

**PROJECT: PCDD/PCDF ANALYSES**

**DATE: July 11, 2006**

**PAGE: 2**

**REPORT NO: 06-1034230**

**DISCUSSION**

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 72-112%. All of the labeled standard recoveries obtained for the samples were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

The responses for two analytes in ending calibration F60705A\_18 were outside the target range for this method. The average response factors from the bracketing continuing calibrations were used to quantify the samples, as described in the method.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results, found at the beginning of Appendix B, show the blank to contain trace levels of selected PCDDs and PCDFs. These levels were below the calibration range of the method. Sample levels similar to the corresponding blank levels were flagged "B" on the results tables and may be, at least partially, attributed to the background. It should be noted that levels less than ten times the background are not generally considered to be statistically different from the background.

Laboratory spike samples were also prepared with the sample batch using clean sand that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 99-157%, with relative percent differences of 0.0-24.3%. The OCDD recovery in LCS-10090 was above the target range for this method and could indicate a high bias for this analyte. The remaining results indicate high degrees of accuracy and precision for these determinations.

**REPORT OF LABORATORY ANALYSIS**

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**REPORT OF: CHEMICAL ANALYSES**

**PROJECT:** PCDD/PCDF ANALYSES

**DATE:** July 11, 2006

**PAGE:** 3

**REPORT NO:** 06-1034230

**REMARKS**

The sample extracts will be retained for a period of 15 days from the date of this report and then discarded unless other arrangements are made. The raw mass spectral data will be archived on magnetic tape for a period of not less than one year. Questions regarding the data contained in this report may be directed to the author at the number provided below.

**Pace Analytical Services, Inc.**



Scott C. Unze  
Project Manager, HRMS  
(612) 607-6383

**REPORT OF LABORATORY ANALYSIS**

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**TABLE 1. 2,3,7,8-TCDD Equivalency Factors (TEFs) for the Polychlorinated Dibenzo-p-dioxins and Dibenzofurans**

Number	Compound(s)	TEF
1	2,3,7,8-TCDD	1.00
2	1,2,3,7,8-PeCDD	0.50
3	1,2,3,6,7,8-HxCDD	0.1
4	1,2,3,7,8,9-HxCDD	0.1
5	1,2,3,4,7,8-HxCDD	0.1
6	1,2,3,4,6,7,8-HpCDD	0.01
7	OCDD	0.001
8	* Total - TCDD	0.0
9	* Total - PeCDD	0.0
10	* Total - HxCDD	0.0
11	* Total - HpCDD	0.0
12	2,3,7,8-TCDF	0.10
13	1,2,3,7,8-PeCDF	0.05
14	2,3,4,7,8-PeCDF	0.5
15	1,2,3,6,7,8-HxCDF	0.1
16	1,2,3,7,8,9-HxCDF	0.1
17	1,2,3,4,7,8-HxCDF	0.1
18	2,3,4,6,7,8-HxCDF	0.1
19	1,2,3,4,6,7,8-HpCDF	0.01
20	1,2,3,4,7,8,9-HpCDF	0.01
21	OCDF	0.001
22	* Total - TCDF	0.0
23	* Total - PeCDF	0.0
24	* Total - HxCDF	0.0
25	* Total - HpCDF	0.0

\*Excluding the 2,3,7,8-substituted congeners.

Reference: International Toxic Equivalence

**REPORT OF LABORATORY ANALYSIS**

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## APPENDIX A

### REPORT OF LABORATORY ANALYSIS

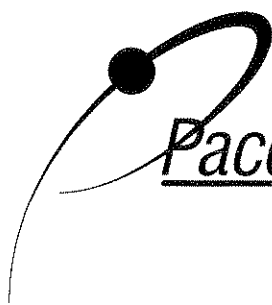
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## APPENDIX B

### REPORT OF LABORATORY ANALYSIS

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**Method 8290 Blank Analysis Results**

Client - ESS Laboratory

Lab Sample ID	BLANK-10089	Matrix	Water
Filename	F60706A_09	Dilution	NA
Total Amount Extracted	939 mL	Extracted	07/03/2006
ICAL Date	05/31/2006	Analyzed	07/06/2006 18:26
CCal Filename(s)	F60706A_04 & F60706A_20	Injected By	SMT

Native Isomers	Conc pg/L	EMPC pg/L	LRL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	2.1	2,3,7,8-TCDF-13C	2.00	98
Total TCDF	ND	----	2.1	2,3,7,8-TCDD-13C	2.00	92
				1,2,3,7,8-PeCDF-13C	2.00	88
2,3,7,8-TCDD	ND	----	2.1	2,3,4,7,8-PeCDF-13C	2.00	88
Total TCDD	ND	----	2.1	1,2,3,7,8-PeCDD-13C	2.00	101
				1,2,3,4,7,8-HxCDF-13C	2.00	90
1,2,3,7,8-PeCDF	ND	----	11.0	1,2,3,6,7,8-HxCDF-13C	2.00	86
2,3,4,7,8-PeCDF	ND	----	11.0	2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	ND	----	11.0	1,2,3,7,8,9-HxCDF-13C	2.00	96
				1,2,3,4,7,8-HxCDD-13C	2.00	91
1,2,3,7,8-PeCDD	ND	----	11.0	1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD	ND	----	11.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	69
				1,2,3,4,7,8,9-HpCDF-13C	2.00	65
1,2,3,4,7,8-HxCDF	ND	----	11.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	77
1,2,3,6,7,8-HxCDF	ND	----	11.0	OCDD-13C	4.00	71
2,3,4,6,7,8-HxCDF	ND	----	11.0			
1,2,3,7,8,9-HxCDF	ND	----	11.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	11.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	11.0	2,3,7,8-TCDD-37Cl4	0.20	102
1,2,3,6,7,8-HxCDD	ND	----	11.0			
1,2,3,7,8,9-HxCDD	ND	----	11.0			
Total HxCDD	ND	----	11.0			
1,2,3,4,6,7,8-HpCDF	ND	----	11.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	11.0	Equivalence: 0.29 pg/L		
Total HpCDF	ND	----	11.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	18	----	11.0 J			
Total HpCDD	30	----	11.0 J			
OCDF	ND	----	21.0			
OCDD	110	----	21.0 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).  
 EMPC = Estimated Maximum Possible Concentration  
 LRL = Lower Reporting Limit  
 J = Concentration detected is below the calibration range  
 P = Recovery outside of target range  
 A = Detection Limit based on signal-to-noise measurement

I = Interference  
 E = PCDE Interference  
 ND = Not Detected  
 NA = Not Applicable  
 NC = Not Calculated  
 \* = See Discussion

Report No.....1034230

**REPORT OF LABORATORY ANALYSIS**



# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

---

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW11  
Date Sampled: 06/21/06 12:53

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-02  
Sample Matrix: Surface Water

### Dioxins

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Dioxin	See Attached								



**Method 8290 Analysis Results**

Client - ESS Laboratory

Client's Sample ID	0606346-02		
Lab Sample ID	1034230001-R		
Filename	F60705A_08		
Injected By	SMT		
Total Amount Extracted	970 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2006
ICAL Date	05/31/2006	Received	06/23/2006
CCal Filename(s)	F60705A_03 & F60705A_18	Extracted	07/03/2006
Method Blank ID	BLANK-10089	Analyzed	07/05/2006 15:44

Native Isomers	Conc pg/L	EMPC pg/L	LRL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	3.9 A	2,3,7,8-TCDF-13C	2.00	96
Total TCDF	ND	----	2.1	2,3,7,8-TCDD-13C	2.00	97
				1,2,3,7,8-PeCDF-13C	2.00	90
2,3,7,8-TCDD	ND	----	8.1 A	2,3,4,7,8-PeCDF-13C	2.00	97
Total TCDD	ND	----	2.1	1,2,3,7,8-PeCDD-13C	2.00	112
				1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	ND	----	10.0	1,2,3,6,7,8-HxCDF-13C	2.00	76
2,3,4,7,8-PeCDF	ND	----	10.0	2,3,4,6,7,8-HxCDF-13C	2.00	80
Total PeCDF	ND	----	10.0	1,2,3,7,8,9-HxCDF-13C	2.00	85
				1,2,3,4,7,8-HxCDD-13C	2.00	82
1,2,3,7,8-PeCDD	ND	----	10.0	1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD	ND	----	10.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	77
				1,2,3,4,7,8,9-HpCDF-13C	2.00	73
1,2,3,4,7,8-HxCDF	ND	----	10.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	86
1,2,3,6,7,8-HxCDF	ND	----	10.0	OCDD-13C	4.00	84
2,3,4,6,7,8-HxCDF	ND	----	10.0			
1,2,3,7,8,9-HxCDF	ND	----	10.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	10.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	10.0	2,3,7,8-TCDD-37Cl4	0.20	114
1,2,3,6,7,8-HxCDD	ND	----	10.0			
1,2,3,7,8,9-HxCDD	ND	----	10.0			
Total HxCDD	ND	----	10.0			
1,2,3,4,6,7,8-HpCDF	ND	----	10.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	10.0	Equivalence: 0.42 pg/L		
Total HpCDF	12	----	10.0 J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	24	----	10.0 BJ			
Total HpCDD	43	----	10.0 BJ			
OCDF	ND	----	21.0			
OCDD	180	----	21.0 B			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)  
 EMPC = Estimated Maximum Possible Concentration  
 A = Detection Limit based on signal-to-noise measurement  
 J = Concentration detected is below the calibration range  
 B = Less than 10 times higher than method blank level  
 P = Recovery outside of target range  
 Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit  
 I = Interference  
 E = PCDE Interference  
 S = Saturated signal  
 ND = Not Detected  
 NA = Not Applicable  
 NC = Not Calculated  
 \* = See Discussion

Report No.....1034230

**REPORT OF LABORATORY ANALYSIS**

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

---

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW19  
Date Sampled: 06/21/06 13:30

ESS Laboratory Work Order: 0606346  
ESS Laboratory Sample ID: 0606346-03  
Sample Matrix: Surface Water

### Dioxins

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Dioxin	See Attached								



### Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606346-03		
Lab Sample ID	1034230002-R		
Filename	F60705A_09		
Injected By	SMT		
Total Amount Extracted	986 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2006
ICAL Date	05/31/2006	Received	06/23/2006
CCal Filename(s)	F60705A_03 & F60705A_18	Extracted	07/03/2006
Method Blank ID	BLANK-10089	Analyzed	07/05/2006 16:34

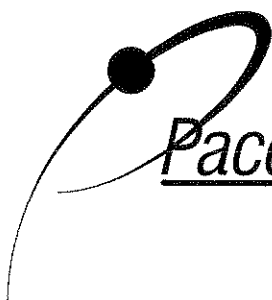
Native Isomers	Conc pg/L	EMPC pg/L	LRL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	2.0	2,3,7,8-TCDF-13C	2.00	99
Total TCDF	3.4	----	2.0 J	2,3,7,8-TCDD-13C	2.00	88
				1,2,3,7,8-PeCDF-13C	2.00	88
2,3,7,8-TCDD	ND	----	2.0	2,3,4,7,8-PeCDF-13C	2.00	96
Total TCDD	ND	----	2.0	1,2,3,7,8-PeCDD-13C	2.00	110
				1,2,3,4,7,8-HxCDF-13C	2.00	80
1,2,3,7,8-PeCDF	ND	----	10.0	1,2,3,6,7,8-HxCDF-13C	2.00	75
2,3,4,7,8-PeCDF	ND	----	10.0	2,3,4,6,7,8-HxCDF-13C	2.00	75
Total PeCDF	ND	----	10.0	1,2,3,7,8,9-HxCDF-13C	2.00	82
				1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	ND	----	10.0	1,2,3,6,7,8-HxCDD-13C	2.00	75
Total PeCDD	ND	----	10.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	76
				1,2,3,4,7,8,9-HpCDF-13C	2.00	72
1,2,3,4,7,8-HxCDF	ND	----	10.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	83
1,2,3,6,7,8-HxCDF	ND	----	10.0	OCDD-13C	4.00	82
2,3,4,6,7,8-HxCDF	ND	----	10.0			
1,2,3,7,8,9-HxCDF	ND	----	10.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	10.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	10.0	2,3,7,8-TCDD-37Cl4	0.20	95
1,2,3,6,7,8-HxCDD	ND	----	10.0			
1,2,3,7,8,9-HxCDD	ND	----	10.0			
Total HxCDD	ND	----	10.0			
1,2,3,4,6,7,8-HpCDF	ND	----	10.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	10.0	Equivalence: 0.75 pg/L		
Total HpCDF	21.0	----	10.0 J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	43.0	----	10.0 BJ			
Total HpCDD	72.0	----	10.0 B			
OCDF	ND	----	20.0			
OCDD	320.0	----	20.0 B			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)  
EMPC = Estimated Maximum Possible Concentration  
A = Detection Limit based on signal-to-noise measurement  
J = Concentration detected is below the calibration range  
B = Less than 10 times higher than method blank level  
P = Recovery outside of target range  
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit  
I = Interference  
E = PCDE Interference  
S = Saturated signal  
ND = Not Detected  
NA = Not Applicable  
NC = Not Calculated  
\* = See Discussion

Report No.....1034230

## REPORT OF LABORATORY ANALYSIS



Method 8290 Laboratory Control Spike Results

Client - ESS Laboratory

Lab Sample ID	LCS-10090	Matrix	Water
Filename	F60706A_05	Dilution	NA
Total Amount Extracted	909 mL	Extracted	07/03/2006
ICAL Date	05/31/2006	Analyzed	07/06/2006 15:07
CCal Filename(s)	F60706A_04 & F60706A_20	Injected By	SMT
Method Blank ID	BLANK-10089		

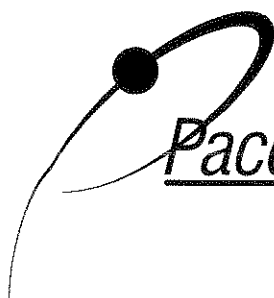
Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	107	2,3,7,8-TCDF-13C	2.00	89
				2,3,7,8-TCDD-13C	2.00	89
				1,2,3,7,8-PeCDF-13C	2.00	83
2,3,7,8-TCDD	0.20	0.21	104	2,3,4,7,8-PeCDF-13C	2.00	80
				1,2,3,7,8-PeCDD-13C	2.00	93
				1,2,3,4,7,8-HxCDF-13C	2.00	73
1,2,3,7,8-PeCDF	1.00	1.19	119	1,2,3,6,7,8-HxCDF-13C	2.00	70
2,3,4,7,8-PeCDF	1.00	1.07	107	2,3,4,6,7,8-HxCDF-13C	2.00	75
				1,2,3,7,8,9-HxCDF-13C	2.00	82
				1,2,3,4,7,8-HxCDD-13C	2.00	70
1,2,3,7,8-PeCDD	1.00	0.99	99	1,2,3,6,7,8-HxCDD-13C	2.00	62
				1,2,3,4,6,7,8-HpCDF-13C	2.00	55
				1,2,3,4,7,8,9-HpCDF-13C	2.00	56
1,2,3,4,7,8-HxCDF	1.00	1.00	100	1,2,3,4,6,7,8-HpCDD-13C	2.00	66
1,2,3,6,7,8-HxCDF	1.00	1.08	108	OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	1.00	1.06	106			
1,2,3,7,8,9-HxCDF	1.00	1.04	104	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.11	111	2,3,7,8-TCDD-37Cl4	0.20	104
1,2,3,6,7,8-HxCDD	1.00	1.17	117			
1,2,3,7,8,9-HxCDD	1.00	1.30	130			
1,2,3,4,6,7,8-HpCDF	1.00	1.18	118			
1,2,3,4,7,8,9-HpCDF	1.00	1.20	120			
1,2,3,4,6,7,8-HpCDD	1.00	1.06	106			
OCDF	2.00	2.26	113			
OCDD	2.00	3.15	157 P			

Qs = Quantity Spiked  
Qm = Quantity Measured  
Rec. = Recovery (Expressed as Percent)  
P = Recovery outside of target range  
X = Background subtracted value  
Nn = Value obtained from additional analysis  
NA = Not Applicable  
\* = See Discussion

Report No.....1034230

REPORT OF LABORATORY ANALYSIS

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**Method 8290 Laboratory Control Spike Results**

Client - ESS Laboratory

Lab Sample ID	LCSD-10091	Matrix	Water
Filename	F60706A_06	Dilution	NA
Total Amount Extracted	940 mL	Extracted	07/03/2006
ICAL Date	05/31/2006	Analyzed	07/06/2006 15:56
CCal Filename(s)	F60706A_04 & F60706A_20	Injected By	SMT
Method Blank ID	BLANK-10089		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	107	2,3,7,8-TCDF-13C	2.00	95
				2,3,7,8-TCDD-13C	2.00	86
				1,2,3,7,8-PeCDF-13C	2.00	87
2,3,7,8-TCDD	0.20	0.22	110	2,3,4,7,8-PeCDF-13C	2.00	83
				1,2,3,7,8-PeCDD-13C	2.00	97
				1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	1.00	1.23	123	1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	1.00	1.09	109	2,3,4,6,7,8-HxCDF-13C	2.00	79
				1,2,3,7,8,9-HxCDF-13C	2.00	83
				1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	1.00	1.05	105	1,2,3,6,7,8-HxCDD-13C	2.00	71
				1,2,3,4,6,7,8-HpCDF-13C	2.00	64
				1,2,3,4,7,8,9-HpCDF-13C	2.00	61
1,2,3,4,7,8-HxCDF	1.00	1.04	104	1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	1.00	1.14	114	OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	1.00	1.10	110			
1,2,3,7,8,9-HxCDF	1.00	1.12	112	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.23	123	2,3,7,8-TCDD-37Cl4	0.20	99
1,2,3,6,7,8-HxCDD	1.00	1.19	119			
1,2,3,7,8,9-HxCDD	1.00	1.30	130			
1,2,3,4,6,7,8-HpCDF	1.00	1.22	122			
1,2,3,4,7,8,9-HpCDF	1.00	1.25	125			
1,2,3,4,6,7,8-HpCDD	1.00	1.04	104			
OCDF	2.00	2.40	120			
OCDD	2.00	2.46	123			

Qs = Quantity Spiked  
 Qm = Quantity Measured  
 Rec. = Recovery (Expressed as Percent)  
 P = Recovery outside of target range  
 X = Background subtracted value  
 Nn = Value obtained from additional analysis  
 NA = Not Applicable  
 \* = See Discussion

Report No.....1034230

**REPORT OF LABORATORY ANALYSIS**

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**SPIKE RECOVERY RELATIVE PERCENT DIFFERENCE (RPD) RESULTS**

Client..... ESS Laboratory

SPIKE 1 ID..... LCS-10090  
 SPIKE 1 Filename..... F60706A\_05  
 SPIKE 2 ID..... LCSD-10091  
 SPIKE 2 Filename..... F60706A\_06

COMPOUND	SPIKE 1 REC,%	SPIKE 2 REC,%	RPD,%
2378-TCDF	107	107	0.0
2378-TCDD	104	110	5.6
12378-PeCDF	119	123	3.3
23478-PeCDF	107	109	1.9
12378-PeCDD	99	105	5.9
123478-HxCDF	100	104	3.9
123678-HxCDF	108	114	5.4
234678-HxCDF	106	110	3.7
123789-HxCDF	104	112	7.4
123478-HxCDD	111	123	10.3
123678-HxCDD	117	119	1.7
123789-HxCDD	130	130	0.0
1234678-HpCDF	118	122	3.3
1234789-HpCDF	120	125	4.1
1234678-HpCDD	106	104	1.9
OCDF	113	120	6.0
OCDD	157	123	24.3

REC = Percent Recovered  
 RPD = The difference between the two values divided by the average.  
 NA = Not Applicable

Report No..... 1034230

**REPORT OF LABORATORY ANALYSIS**

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# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606346

### Notes and Definitions

Z-08	See Attached
P	Percent difference between primary and confirmation results exceeds 40%.
+	Outside QC Limits.
ND	Analyte NOT DETECTED above the detection limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
mg/kg	Results reported as wet weight
TCLP	Toxicity Characteristic Leachate Procedure
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
TIC	A forward library search of the NBS Mass Spectral Library was performed on this sample using the McLafferty Probability Base Matching (PBM) Algorithm. An estimated concentration of non-TCL compounds tentatively identified is quantified by the internal standard method. The nearest internal standard free of interferences was used to quantify. A response factor of one was assumed. This search was inclusive of the ten largest peaks greater than ten percent of the nearest internal standard.
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
¶	The state of RI does not grant certification for this method for non-potables.

**Sample and Cooler Receipt Checklist**

Client: Mactec  
 Client Project ID: \_\_\_\_\_  
 Shipped/Delivered Via: Client

ESS Project ID: 06060346  
 Date Project Due: 6/28/06  
 Days For Project: 5 Day

**Items to be checked upon receipt:**

1. Air Bill Manifest Present?

\* No

10. Are the samples properly preserved?

Yes

Air No.:

11. Proper sample containers used?

Yes

2. Were Custody Seals Present?

No

12. Any air bubbles in the VOA vials?

\* Yes

3. Were Custody Seals Intact?

N/A

13. Holding times exceeded?

No

4. Is Radiation count < 100 CPM?

Yes

14. Sufficient sample volumes?

Yes

5. Is a cooler present?

Yes

15. Any Subcontracting needed?

\* Yes

Cooler Temp: 5.5

16. Are ESS labels on correct containers?

Yes  No

Iced With: Icepacks

17. Were samples received intact?

Yes  No

6. Was COC included with samples?

Yes

ESS Sample IDs: \_\_\_\_\_

7. Was COC signed and dated by client?

Yes

Sub Lab: Pace Analytical

8. Does the COC match the sample

Yes

Analysis: Dioxins / Furans

9. Is COC complete and correct?

Yes

TAT: \_\_\_\_\_

18. Was there need to call project manager to discuss status? If yes, please explain.

Who was called?: \_\_\_\_\_

By whom? \_\_\_\_\_

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	1 L Glass	1	NP
1	Yes	40 ml - VOA	3	HCL
1	Yes	500 ml Plastic	3	HNO3
2	Yes	1 L Glass	9	NP
2	Yes	40 ml - VOA	3	HCL
2	Yes	500 ml Plastic	3	HNO3
3	Yes	1 L Glass	8	NP
3	Yes	40 ml - VOA	3	HCL
3	Yes	500 ml Plastic	3	HNO3
4	Yes	1 L Glass	2	NP
4	Yes	40 ml - VOA	3	HCL
4	Yes	500 ml Plastic	3	HNO3
5	Yes	1 L Glass	2	NP
5	Yes	40 ml - VOA	3	HCL
5	Yes	500 ml Plastic	3	HNO3
6	Yes	1 L Glass	2	NP
6	Yes	40 ml - VOA	3	HCL
6	Yes	500 ml Plastic	3	HNO3
7	Yes	1 L Glass	2	NP
7	Yes	40 ml - VOA	3	HCL
7	Yes	500 ml Plastic	3	HNO3
8	Yes	1 L Glass	2	NP
8	Yes	40 ml - VOA	3	HCL
8	Yes	500 ml Plastic	3	HNO3
9	Yes	1 L Glass	2	NP

**Sample and Cooler Receipt Checklist**

Client: Mactec

ESS Project ID: 06060346

9	Yes	40 ml - VOA	3	HCL
9	Yes	500 ml Plastic	3	HNO3
10	Yes	1 L Glass	2	NP
10	Yes	40 ml - VOA	3	HCL
10	Yes	500 ml Plastic	3	HNO3
11	Yes	1 L Glass	2	NP
11	Yes	40 ml - VOA	3	HCL
11	Yes	500 ml Plastic	3	HNO3
12	Yes	1 L Glass	8	NP
12	Yes	40 ml - VOA	3	HCL
12	Yes	500 ml Plastic	3	HNO3
13	Yes	1 L Glass	2	NP
13	Yes	40 ml - VOA	3	HCL
13	Yes	500 ml Plastic	3	HNO3
14	Yes	1 L Glass	2	NP
14	Yes	40 ml - VOA	3	HCL
14	Yes	500 ml Plastic	3	HNO3
15	Yes	1 L Glass	2	NP
15	Yes	40 ml - VOA	3	HCL
15	Yes	500 ml Plastic	3	HNO3

Completed By: JTD JTD

Date/Time: 6-21-06

Reviewed By: ZD

Date/Time: 6-21-06

# ESS Laboratory

# CHAIN OF CUSTODY

Division of Thielisch Engineering, Inc.  
 185 Frances Avenue, Cranston, RI 02910-2211  
 Tel. (401) 461-7181 Fax (401) 461-4486  
 www.esslaboratory.com

Turn Time \_\_\_\_\_ Standard \_\_\_\_\_ Other \_\_\_\_\_  
 If faster than 5 days, prior approval by laboratory is required # \_\_\_\_\_  
 State where samples were collected from:  
 MA  CT  NH  NJ  NY  ME  Other \_\_\_\_\_  
 Is this project for any of the following:  USACE  Other \_\_\_\_\_  
 Navy \_\_\_\_\_

Reporting Limits \_\_\_\_\_  
 Electronic Deliverable \_\_\_\_\_ Yes \_\_\_\_\_ No \_\_\_\_\_  
 Format:  Excel  Access  PDF  Other \_\_\_\_\_  
 ESS LAB PROJECT ID: 0606346

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (see Chart on back)	Pres Code	Number of Containers	Type of Containers	Circle and/or Write Required Analysis		
										VOA	PAH	Pesticides
1	6-21-06	1145	X	SW	SW10		7	9/6IN	8260 VOA	624	524.2	X
2	"	1253	X	SW	SW11		13	"	8021 MTBE/BTEX	8015 GRO	VPH w/targets	X
3	"	1330	X	SW	SW19		13	"	8100 TPH	8015 DRO	EPH w/PAHs	X
4	"	1350	X	SW	SW27		7	"	EPH w/PAHs	8082 PCB	608 Pesticides	X
5	"	1416	X	SW	SW12		7	"	8270 SVOA	625	PAH 8270	X
6	"	1429	X	SW	SW16		7	"	RCRA5	RCRA8	PPI3 TAL23	X
7	"	1444	X	SW	SW18		7	"	TCLP-RCRA8	NBC7		X
8	"	1454	X	SW	SW21		7	"	MCP-METALS (13)			X
9	"	1505	X	SW	SW22		7	"	VOA (HCL)	PAH	Pesticides	X
10	"	1515	X	SW	SW23		7	"	PCB	PP13 Metals (HNO <sub>3</sub> )		X

Container Type:  Poly  Glass  S-Sterile  VVOA  Matrix:  S-Soil  SD-Solid  D-Sludge  WW-Waste Water  GW-Ground Water  SW-Surface Water  DW-Drinking Water  O-Oil  W-Wipes  F-Filters

Cooler Present:  Yes  No Internal Use Only:  Yes  No

Seals Intact:  Yes  No NA: \_\_\_\_\_ [ ] Pickup

Cooler Temp: 5.5

Refrigerated by: (Signature) \_\_\_\_\_ Date/Time 6-21-06 1824 Received by: (Signature) \_\_\_\_\_ Date/Time 6-28-06 1824

Relinquished by: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_

Comments: Mark Padover

\*By circling MA-MCP, client acknowledges samples were collected in accordance with MAADDP CAM VIIA

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt



# ESS Laboratory

Division of Thielsch Engineering, Inc.

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## CERTIFICATE OF ANALYSIS

### PROJECT NARRATIVE

Cris Ricardi  
MACTEC Engineering & Consulting, Inc.  
32 Daniel Webster Highway Ste 25  
Merrimack, NH 03054

**RE: Providence Gorham Site**  
**ESS Laboratory Work Order Number: 0606372**

This signed Certificate of Analysis is our approved release of your analytical results. Beginning with this Project Narrative, the entire report has been paginated. The ESS Laboratory Certifications sheet is the final report page. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been mailed. If you have any questions or concerns, please feel free to call our Customer Service Department.

  
Laurel Stoddard  
Laboratory Director

Date: July 25, 2006

#### Sample Receipt

3 Soil samples were received on June 22, 2006 for the analyses specified on the enclosed Chain of Custody Record.

#### Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration may be used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC, except where noted within this project narrative.

#### Metals Analysis

ESS Laboratory utilized the established linear dynamic range to determine acceptable analytical results.

#### Volatile Organics Analysis

Blank Spike was outside of the recommended range for 1,2,3-Trichlorobenzene and 1,4-Dioxane - Screen. These analytes exceed the upper control limit, however, samples were non detect for these analytes.

The Relative Percent Difference for the Blank Spike/Blank Spike Duplicate was outside of the recommended range for 1,4-Dioxane - Screen.

#### Semivolatile Organics Analysis SIM

The Relative Percent Difference for the Blank Spike/Blank Spike Duplicate was outside of the recommended range for Benzo(a)pyrene, Benzo(b)fluoranthene and Benzo(k)fluoranthene.

Surrogate recovery was outside of the recommended range for samples 0606372-01, 0606372-02 and 0606372-03.

No other observations noted.

End of Project Narrative.

mdp

# Metals Data Package



# Metals Sample Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW25  
Date Sampled: 06/22/06 12:20  
Percent Solids: N/A

ESS Laboratory Work Order: 0606372  
ESS Laboratory Sample ID: 0606372-01  
Sample Matrix: Surface Water

### 3005A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/23/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/23/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/23/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/23/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/23/06	50	50
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/23/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/23/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/23/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/23/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW25  
Date Sampled: 06/22/06 12:20  
Percent Solids: N/A

ESS Laboratory Work Order: 0606372  
ESS Laboratory Sample ID: 0606372-01  
Sample Matrix: Surface Water

### 3005A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/23/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/23/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/23/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/23/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/23/06	50	50
<b>Hardness</b>	<b>77.7</b>	mg/L	1.32	6010B	1	JP	06/23/06	1	1
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/23/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/23/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/23/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/23/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW25 D  
Date Sampled: 06/22/06 12:20  
Percent Solids: N/A

ESS Laboratory Work Order: 0606372  
ESS Laboratory Sample ID: 0606372-02  
Sample Matrix: Surface Water

### 3005A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/23/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/23/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/23/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/23/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/23/06	50	50
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/23/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/23/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/23/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/23/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW25 D  
Date Sampled: 06/22/06 12:20  
Percent Solids: N/A

ESS Laboratory Work Order: 0606372  
ESS Laboratory Sample ID: 0606372-02  
Sample Matrix: Surface Water

### 3005A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/23/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/23/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/23/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/23/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/23/06	50	50
<b>Hardness</b>	<b>79.5</b>	mg/L	1.32	6010B	1	JP	06/23/06	1	1
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/23/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/23/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/23/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/23/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW27  
Date Sampled: 06/22/06 12:00  
Percent Solids: N/A

ESS Laboratory Work Order: 0606372  
ESS Laboratory Sample ID: 0606372-03  
Sample Matrix: Surface Water

### 3005A/6000/7000 Dissolved Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/23/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/23/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/23/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/23/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/23/06	50	50
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/23/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/23/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/23/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/23/06	50	50

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW27  
Date Sampled: 06/22/06 12:00  
Percent Solids: N/A

ESS Laboratory Work Order: 0606372  
ESS Laboratory Sample ID: 0606372-03  
Sample Matrix: Surface Water

### 3005A/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/L	0.0050	7041	1	JP	06/28/06	50	50
Arsenic	ND	mg/L	0.0050	7060A	1	JP	06/27/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/23/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/23/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/23/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/23/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/23/06	50	50
<b>Hardness</b>	<b>80.0</b>	mg/L	1.32	6010B	1	JP	06/23/06	1	1
Lead	ND	mg/L	0.0050	7421	1	JP	06/27/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	EEM	06/23/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/23/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/23/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/23/06	50	50
Thallium	ND	mg/L	0.0020	7841	1	JP	06/26/06	50	50
Zinc	ND	mg/L	0.050	6010B	1	JP	06/23/06	50	50

# Metals Quality Control Data



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606372

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 3005A/6000/7000 Dissolved Metals

##### Batch BF62302 - 3005A

##### Blank

Antimony	ND	0.0050	mg/L							
Arsenic	ND	0.0050	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.001	mg/L							
Cadmium	ND	0.005	mg/L							
Chromium	ND	0.020	mg/L							
Copper	ND	0.020	mg/L							
Lead	ND	0.0050	mg/L							
Nickel	ND	0.050	mg/L							
Selenium	ND	0.05	mg/L							
Silver	ND	0.005	mg/L							
Thallium	ND	0.0020	mg/L							
Zinc	ND	0.050	mg/L							

##### LCS

Barium	0.508	0.050	mg/L	0.500		102	80-120			
Beryllium	0.053	0.001	mg/L	0.0500		106	80-120			
Cadmium	0.259	0.005	mg/L	0.250		104	80-120			
Chromium	0.519	0.020	mg/L	0.500		104	80-120			
Copper	0.514	0.020	mg/L	0.500		103	80-120			
Nickel	0.521	0.050	mg/L	0.500		104	80-120			
Selenium	1.05	0.05	mg/L	1.00		105	80-120			
Silver	0.259	0.005	mg/L	0.250		104	80-120			
Zinc	0.520	0.050	mg/L	0.500		104	80-120			

##### LCS

Antimony	0.0195	0.0050	mg/L	0.0200		98	80-120			
Arsenic	0.0186	0.0050	mg/L	0.0200		93	80-120			
Lead	0.0194	0.0050	mg/L	0.0200		97	80-120			
Thallium	0.0210	0.0020	mg/L	0.0200		105	80-120			

##### LCS Dup

Barium	0.503	0.050	mg/L	0.500		101	80-120	1	20	
Beryllium	0.052	0.001	mg/L	0.0500		104	80-120	2	20	
Cadmium	0.256	0.005	mg/L	0.250		102	80-120	2	20	
Chromium	0.514	0.020	mg/L	0.500		103	80-120	1	20	
Copper	0.513	0.020	mg/L	0.500		103	80-120	0	20	
Nickel	0.518	0.050	mg/L	0.500		104	80-120	0	20	
Selenium	1.04	0.05	mg/L	1.00		104	80-120	1	20	
Silver	0.257	0.005	mg/L	0.250		103	80-120	0.8	20	
Zinc	0.514	0.050	mg/L	0.500		103	80-120	1	20	

##### LCS Dup

Antimony	0.0185	0.0050	mg/L	0.0200		92	80-120	6	20	
Arsenic	0.0192	0.0050	mg/L	0.0200		96	80-120	3	20	
Lead	0.0199	0.0050	mg/L	0.0200		100	80-120	3	20	
Thallium	0.0207	0.0020	mg/L	11 0.0200		104	80-120	1	20	

##### Batch BF62303 - 245.1/7470A

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
 Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606372

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 3005A/6000/7000 Dissolved Metals

##### Batch BF62303 - 245.1/7470A

###### Blank

Mercury	ND	0.0005	mg/L							
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###### LCS

Mercury	0.0060	0.0005	mg/L	0.00600		100	80-120			
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###### LCS Dup

Mercury	0.0061	0.0005	mg/L	0.00600		102	80-120	2	20	
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#### 3005A/6000/7000 Total Metals

##### Batch BF62302 - 3005A

###### Blank

Antimony	ND	0.0050	mg/L							
Arsenic	ND	0.0050	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.001	mg/L							
Cadmium	ND	0.005	mg/L							
Calcium	ND	0.20	mg/L							
Chromium	ND	0.020	mg/L							
Copper	ND	0.020	mg/L							
Lead	ND	0.0050	mg/L							
Magnesium	ND	0.20	mg/L							
Nickel	ND	0.050	mg/L							
Selenium	ND	0.05	mg/L							
Silver	ND	0.005	mg/L							
Thallium	ND	0.0020	mg/L							
Zinc	ND	0.050	mg/L							

###### LCS

Barium	0.508	0.050	mg/L	0.500		102	80-120			
Beryllium	0.053	0.001	mg/L	0.0500		106	80-120			
Cadmium	0.259	0.005	mg/L	0.250		104	80-120			
Calcium	5.23	0.20	mg/L	5.00		105	80-120			
Chromium	0.519	0.020	mg/L	0.500		104	80-120			
Copper	0.514	0.020	mg/L	0.500		103	80-120			
Magnesium	5.09	0.20	mg/L	5.00		102	80-120			
Nickel	0.521	0.050	mg/L	0.500		104	80-120			
Selenium	1.05	0.05	mg/L	1.00		105	80-120			
Silver	0.259	0.005	mg/L	0.250		104	80-120			
Zinc	0.520	0.050	mg/L	0.500		104	80-120			

###### LCS

Antimony	0.0195	0.0050	mg/L	0.0200		98	80-120			
Arsenic	0.0186	0.0050	mg/L	0.0200		93	80-120			
Lead	0.0194	0.0050	mg/L	0.0200		97	80-120			
Thallium	0.0210	0.0020	mg/L	0.0200		105	80-120			

###### LCS Dup

Barium	0.503	0.050	mg/L	<b>12</b> 0.500		101	80-120	1	20	
Beryllium	0.052	0.001	mg/L	0.0500		104	80-120	2	20	

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606372

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 3005A/6000/7000 Total Metals

##### Batch BF62302 - 3005A

Cadmium	0.256	0.005	mg/L	0.250		102	80-120	2	20	
Calcium	5.19	0.20	mg/L	5.00		104	80-120	1	20	
Chromium	0.514	0.020	mg/L	0.500		103	80-120	1	20	
Copper	0.513	0.020	mg/L	0.500		103	80-120	0	20	
Magnesium	5.04	0.20	mg/L	5.00		101	80-120	1	20	
Nickel	0.518	0.050	mg/L	0.500		104	80-120	0	20	
Selenium	1.04	0.05	mg/L	1.00		104	80-120	1	20	
Silver	0.257	0.005	mg/L	0.250		103	80-120	0.8	20	
Zinc	0.514	0.050	mg/L	0.500		103	80-120	1	20	

##### LCS Dup

Antimony	0.0185	0.0050	mg/L	0.0200		92	80-120	6	20	
Arsenic	0.0192	0.0050	mg/L	0.0200		96	80-120	3	20	
Lead	0.0199	0.0050	mg/L	0.0200		100	80-120	3	20	
Thallium	0.0207	0.0020	mg/L	0.0200		104	80-120	1	20	

##### Duplicate

Source: 0606372-03

Antimony	ND	0.0050	mg/L		ND				20	
Arsenic	0.0009	0.0050	mg/L		0.0011			20	20	
Barium	0.031	0.050	mg/L		0.032			3	20	
Beryllium	ND	0.001	mg/L		ND				20	
Cadmium	0.0005	0.005	mg/L		0.0005			0	20	
Calcium	24.1	0.20	mg/L		24.6			2	20	
Chromium	0.002	0.020	mg/L		ND				20	
Copper	0.012	0.020	mg/L		0.011			9	20	
Lead	0.0037	0.0050	mg/L		0.0034			8	20	
Magnesium	4.42	0.20	mg/L		4.51			2	20	
Nickel	0.002	0.050	mg/L		0.001			67	20	
Selenium	ND	0.05	mg/L		ND				20	
Silver	0.002	0.005	mg/L		0.001			67	20	
Thallium	ND	0.0020	mg/L		ND				20	
Zinc	0.052	0.050	mg/L		0.048			8	20	

##### Matrix Spike

Source: 0606372-03

Barium	0.540	0.050	mg/L	0.500	0.032	102	75-125			
Beryllium	0.053	0.001	mg/L	0.0500	ND	106	75-125			
Cadmium	0.259	0.005	mg/L	0.250	0.0005	103	75-125			
Calcium	29.8	0.20	mg/L	5.00	24.6	104	75-125			
Chromium	0.526	0.020	mg/L	0.500	ND	105	75-125			
Copper	0.530	0.020	mg/L	0.500	0.011	104	75-125			
Magnesium	9.55	0.20	mg/L	5.00	4.51	101	75-125			
Nickel	0.524	0.050	mg/L	0.500	0.001	105	75-125			
Selenium	1.06	0.05	mg/L	1.00	ND	106	75-125			
Silver	0.262	0.005	mg/L	0.250	0.001	104	75-125			
Zinc	0.560	0.050	mg/L	0.500	0.048	102	75-125			

##### Matrix Spike

Source: 0606372-03

Antimony	0.0182	0.0050	mg/L	0.0200	ND	91	75-125			
Arsenic	0.0198	0.0050	mg/L	0.0200	0.0011	94	75-125			
Lead	0.0225	0.0050	mg/L	0.0200	0.0034	96	75-125			

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
 Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606372

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 3005A/6000/7000 Total Metals

##### Batch BF62302 - 3005A

Thallium	0.0191	0.0020	mg/L	0.0200	ND	96	75-125			
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##### Batch BF62303 - 245.1/7470A

Blank										
Mercury	ND	0.0005	mg/L							

CS										
Mercury	0.0060	0.0005	mg/L	0.00600		100	80-120			

CS Dup										
Mercury	0.0061	0.0005	mg/L	0.00600		102	80-120	2	20	

#### 8081A Organochlorine Pesticides

##### Batch BF62722 - 3510C

Blank										
,4'-DDD	ND	0.05	ug/L							
,4'-DDE	ND	0.05	ug/L							
,4'-DDT	ND	0.05	ug/L							
ldrin	ND	0.05	ug/L							
lpha-BHC	ND	0.05	ug/L							
lpha-Chlordane	ND	0.05	ug/L							
eta-BHC	ND	0.05	ug/L							
hlordane (Total)	ND	0.50	ug/L							
elta-BHC	ND	0.05	ug/L							
ieldrin	ND	0.05	ug/L							
ndosulfan I	ND	0.05	ug/L							
ndosulfan II	ND	0.05	ug/L							
ndosulfan Sulfate	ND	0.05	ug/L							
ndrin	ND	0.05	ug/L							
ndrin Aldehyde	ND	0.05	ug/L							
ndrin Ketone	ND	0.05	ug/L							
amma-BHC (Lindane)	ND	0.05	ug/L							
amma-Chlordane	ND	0.05	ug/L							
leptachlor	ND	0.05	ug/L							
leptachlor Epoxide	ND	0.05	ug/L							
exachlorobenzene	ND	0.05	ug/L							
lethoxychlor	ND	0.05	ug/L							
oxaphene	ND	2.50	ug/L							

urrogate: Decachlorobiphenyl	0.287		ug/L	0.250		115	30-150			
urrogate: Decachlorobiphenyl [2C]	0.270		ug/L	0.250		108	30-150			
urrogate: Tetrachloro-m-xylene	0.182		ug/L	0.250		73	30-150			
urrogate: Tetrachloro-m-xylene [2C]	0.175		ug/L	0.250		70	30-150			

CS										
,4'-DDD	0.31	0.05	ug/L	0.250		124	40-140			
,4'-DDE	0.25	0.05	ug/L	0.250		100	40-140			
,4'-DDT	0.27	0.05	ug/L	0.250		108	40-140			
ldrin	0.28	0.05	ug/L	0.250		112	40-140			
lpha-BHC	0.22	0.05	ug/L	0.250		88	40-140			

# Metals Calibration Data

## ANALYSIS SEQUENCE

BPG0212

Instrument: ICP2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0212-CAL1	QC		1		6F21081		
BPG0212-CAL2	QC		2		6F23006		
BPG0212-CAL3	QC		3		6F23007		
BPG0212-CAL4	QC		4		6F23008		
BPG0212-ICV1	QC		5		6F23007		
BPG0212-SCV1	QC		6		6F23011		
BPG0212-ICB1	QC		7				
BPG0212-CRL1	QC		8		6F23012		
BPG0212-CRL2	QC		9		6F23013		
BPG0212-CRL3	QC		10		6F23014		
BPG0212-IFA1	QC		11		6F13074		
BPG0212-CCB1	QC		12				
BPG0212-CCV1	QC		13		6F23007		
BPG0212-IFB1	QC		14		6F13075		
BF62302-BLK1	QC		15				
BF62302-BS1	QC		16				
BF62302-BSD1	QC		17				
BF62302-DUP1	QC		18				
BF62302-MS1	QC		19				
BF62302-PS1	QC		20				
0606372-01	Ba: ppm Barium 6010	G	21				MACTEC Engineering & Consulting, In
0606372-01	Ba: ppm Diss Barium 6010	G	22				MACTEC Engineering & Consulting, In
0606372-01	Mg: Magnesium 6010 NR	G	23				MACTEC Engineering & Consulting, In
0606372-01	Ca: Calcium 6010 NR	G	24				MACTEC Engineering & Consulting, In
0606372-01	Be: ppm Diss Beryllium 6010	G	25				MACTEC Engineering & Consulting, In
0606372-01	Cd: ppm Diss Cadmium 6010	G	26				MACTEC Engineering & Consulting, In
0606372-01	Cr: ppm Diss Chromium 6010	G	27				MACTEC Engineering & Consulting, In
0606372-01	Cu: ppm Diss Copper 6010	G	28				MACTEC Engineering & Consulting, In
0606372-01	Ni: ppm Diss Nickel 6010	G	29				MACTEC Engineering & Consulting, In
0606372-01	Se: ppm Diss Selenium 6010	G	30				MACTEC Engineering & Consulting, In
0606372-01	Ag: ppm Diss Silver 6010	G	31				MACTEC Engineering & Consulting, In
0606372-01	Zn: ppm Diss Zinc 6010	G	32				MACTEC Engineering & Consulting, In
0606372-01	Be: ppm Beryllium 6010	G	33				MACTEC Engineering & Consulting, In

## ANALYSIS SEQUENCE

BPG0212

Instrument: ICP2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606372-01	Cd: ppm Cadmium 6010	G	34				MACTEC Engineering & Consulting, Inc
0606372-01	Cr: ppm Chromium 6010	G	35				MACTEC Engineering & Consulting, Inc
0606372-01	Cu: ppm Copper 6010	G	36				MACTEC Engineering & Consulting, Inc
0606372-01	Ni: ppm Nickel 6010	G	37				MACTEC Engineering & Consulting, Inc
0606372-01	Se: ppm Selenium 6010	G	38				MACTEC Engineering & Consulting, Inc
0606372-01	Ag: ppm Silver 6010	G	39				MACTEC Engineering & Consulting, Inc
0606372-01	Zn: ppm Zinc 6010	G	40				MACTEC Engineering & Consulting, Inc
0606372-02	Be: ppm Beryllium 6010	G	41				MACTEC Engineering & Consulting, Inc
0606372-02	Cd: ppm Cadmium 6010	G	42				MACTEC Engineering & Consulting, Inc
0606372-02	Ba: ppm Barium 6010	G	43				MACTEC Engineering & Consulting, Inc
0606372-02	Cr: ppm Chromium 6010	G	44				MACTEC Engineering & Consulting, Inc
0606372-02	Cu: ppm Copper 6010	G	45				MACTEC Engineering & Consulting, Inc
0606372-02	Ni: ppm Nickel 6010	G	46				MACTEC Engineering & Consulting, Inc
0606372-02	Se: ppm Selenium 6010	G	47				MACTEC Engineering & Consulting, Inc
0606372-02	Ag: ppm Silver 6010	G	48				MACTEC Engineering & Consulting, Inc
0606372-02	Zn: ppm Zinc 6010	G	49				MACTEC Engineering & Consulting, Inc
0606372-02	Ba: ppm Diss Barium 6010	G	50				MACTEC Engineering & Consulting, Inc
0606372-02	Be: ppm Diss Beryllium 6010	G	51				MACTEC Engineering & Consulting, Inc
0606372-02	Cd: ppm Diss Cadmium 6010	G	52				MACTEC Engineering & Consulting, Inc
0606372-02	Cr: ppm Diss Chromium 6010	G	53				MACTEC Engineering & Consulting, Inc
0606372-02	Cu: ppm Diss Copper 6010	G	54				MACTEC Engineering & Consulting, Inc
0606372-02	Ni: ppm Diss Nickel 6010	G	55				MACTEC Engineering & Consulting, Inc
0606372-02	Se: ppm Diss Selenium 6010	G	56				MACTEC Engineering & Consulting, Inc
0606372-02	Ag: ppm Diss Silver 6010	G	57				MACTEC Engineering & Consulting, Inc
0606372-02	Zn: ppm Diss Zinc 6010	G	58				MACTEC Engineering & Consulting, Inc
0606372-02	Mg: Magnesium 6010 NR	G	59				MACTEC Engineering & Consulting, Inc
0606372-02	Ca: Calcium 6010 NR	G	60				MACTEC Engineering & Consulting, Inc
0606372-03	Be: ppm Beryllium 6010	G	61				MACTEC Engineering & Consulting, Inc
0606372-03	Cd: ppm Cadmium 6010	G	62				MACTEC Engineering & Consulting, Inc
0606372-03	Cr: ppm Chromium 6010	G	63				MACTEC Engineering & Consulting, Inc
0606372-03	Cu: ppm Copper 6010	G	64				MACTEC Engineering & Consulting, Inc
0606372-03	Ni: ppm Nickel 6010	G	65				MACTEC Engineering & Consulting, Inc
0606372-03	Se: ppm Selenium 6010	G	66				MACTEC Engineering & Consulting, Inc

## ANALYSIS SEQUENCE

BPG0212

Instrument: ICP2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606372-03	Ag: ppm Silver 6010	G	67				MACTEC Engineering & Consulting, In
0606372-03	Zn: ppm Zinc 6010	G	68				MACTEC Engineering & Consulting, In
0606372-03	Ba: ppm Barium 6010	G	69				MACTEC Engineering & Consulting, In
0606372-03	Ba: ppm Diss Barium 6010	G	70				MACTEC Engineering & Consulting, In
0606372-03	Mg: Magnesium 6010 NR	G	71				MACTEC Engineering & Consulting, In
0606372-03	Ca: Calcium 6010 NR	G	72				MACTEC Engineering & Consulting, In
0606372-03	Be: ppm Diss Beryllium 6010	G	73				MACTEC Engineering & Consulting, In
0606372-03	Cd: ppm Diss Cadmium 6010	G	74				MACTEC Engineering & Consulting, In
0606372-03	Cr: ppm Diss Chromium 6010	G	75				MACTEC Engineering & Consulting, In
0606372-03	Cu: ppm Diss Copper 6010	G	76				MACTEC Engineering & Consulting, In
0606372-03	Ni: ppm Diss Nickel 6010	G	77				MACTEC Engineering & Consulting, In
0606372-03	Se: ppm Diss Selenium 6010	G	78				MACTEC Engineering & Consulting, In
0606372-03	Ag: ppm Diss Silver 6010	G	79				MACTEC Engineering & Consulting, In
0606372-03	Zn: ppm Diss Zinc 6010	G	80				MACTEC Engineering & Consulting, In
BPG0212-CCB2	QC		81				
BPG0212-CCV2	QC		82		6F23007		
BPG0212-SRD1	QC		83				
BPG0212-CCB3	QC		84				
BPG0212-CCV3	QC		85		6F23007		
BPG0212-IFA2	QC		86		6F13074		
BPG0212-IFB2	QC		87		6F13075		



**ESS Laboratory  
ICP Data Review Checklist**

SIF: 062306KA		Date Run: 6/23/06		
Method: <u>Wavelength</u>		Y-IS: 2329507.9		
Project Number(s): 06334, 348, 352, 353, 359, 362,		SOP NO. 30 6010B		
366, 369, 375, 371, 372, 340, 357				
Review Item	Yes (X)	No (X)	N/A (X)	
1. Does the daily standard curve consist of a Calibration Blank and the required minimum number of calibration standards and is $R^2 > 0.995$ for all elements?	X			
2. Is the mid-point initial calibration standard reanalyzed immediately after calibration and results within QC limits? ( $\pm 5\%$ for 200.7, 10% for 6010B)	X			
3. Are interference check standards analyzed at the beginning of each analytical run and within QC limits?	X			
4. Is the ICV from a second source and is its percent within QC limits ( $\pm 10\%$ and $\%RPD < 5$ )?	X			
5. Is the CRI standard 20% of the true value?	X			
6. Are the CCVs analyzed at required frequency and all parameters within QC limits? ( $\pm 10\%$ )	X			
7. Are the CCB standards analyzed at required frequency and at the end of the analytical sequence and are all parameters within QC limits? ( $< MRL$ )	X			
8. Is the method blank run at the desired frequency and is its concentration for target analytes less than the MRL?	X			
9. Is the Laboratory Control Sample run at the desired frequency and is the percent recovery within QC limits? ( $\pm 15\%$ for 200.7, $+20\%$ for 6010B)	X			
10. Is the Matrix Duplicate run at the desired frequency and is the RPD within QC limits? ( $\pm 20\%$ for aqueous and $+ 35\%$ for soil samples/ All USACE/Navy samples $\leq 25\%$ )	X			
11. Is the matrix spike run at the desired frequency and is the percent recovery /RPD within QC limits? (75-125%)	X			
12. Is a Serial Dilution Analysis performed at the desired frequency and within QC limits? ( $\pm 10\%$ )	X			
13. Are post-digestion spikes analyzed at the desired frequency and within QC limits? (85-115% for 200.7, 75-125% for 6010B)	X			
14. Are all samples with concentrations greater than the linear dynamic range diluted and reanalyzed?				X
15. Are all sample IDs and units checked for transcription errors?	X			
16. Are all nonconformances included and noted?	X			
17. Is the correct methodology used for sample prep and analysis?	X			
18. Are all sample holding times met?	X			
19. Did analyst sign/date the appropriate print outs and report sheets?	X			

Comments on any "No" response:

06340-01T, 02T w/ QC via MCP Pb

Analyst: SP

Date: 6/24/06

2<sup>nd</sup>

Level Review: SW

Date: 6/26/06

Analytical Sequence

Method : everythingx

Seq.	Loc.	Sample ID
1	1	Calib Blank 1
2	2	Calib Std 1
3	3	Calib Std 2
4	4	Calib Std 3
5	3	STD2
6	5	ICV
7	1	ICCB
8	6	CRI1
9	7	CRI2
10	8	CRI3
11	106	ICSA
12	105	ICSAB
13	3	CCV
14	1	ICCB
15	9	BF62301-BLK1
16	10	BF62301-BS1
17	11	BF62301-BSD1
18	12	BF62301-BLK2
19	13	0606334-01
20	14	0606334-02
21	15	0606334-03
22	16	0606348-01
23	17	0606352-01
24	18	0606353-01
25	3	CCV
26	1	ICCB
27	19	0606359-01
28	20	0606362-01
29	21	0606366-01
30	22	0606366-02
31	23	BF62301-DUP1
32	24	BF62301-MS1
33	25	BF62301-SD1
34	26	BF62301-PDS1
35	27	0606366-03
36	28	0606366-05
37	3	CCV
38	1	ICCB
39	29	0606369-02
40	30	0606375-01
41	31	0606371-01DIS
42	32	0606371-01
43	33	BF62301-DUP2
44	34	BF62301-MS2
45	35	BF62301-SD2
46	36	BF62301-PDS2
47	37	BF62302-BLK1
48	38	BF62302-BS1
49	3	CCV
50	1	ICCB
51	39	BF62302-BSD1
52	40	0606272-01DIS
53	41	0606272-02DIS
54	42	0606272-03DIS
55	43	0606372-01
56	44	0606372-02

Ag 0.005  
 As 0.01  
 Ba 0.01  
 Be 0.001  
 Cd 0.005  
 Cr 0.01  
 Cu 0.01  
 Ni 0.01  
 Pb 0.01  
 Sb 0.01  
 Se 0.02  
 Ti 0.05  
 Zn 0.01  
 Ca 0.1  
 Mg 0.1

Analytical Sequence

Method : everythingx

Seq.	Loc.		Sample ID
57	45		0606372-03
58	46	✓	BF62302-DUP1
59	47	✓	BF62302-MS1
60	48	✓	BF62302-SD1
61	3	QC	CCV
62	1	QC	ICCB
63	49	✓	BF62302-PDS1
64	50		0606334-01 1/50
65	51		BF62307-BLK1
66	52		BF62307-BS1
67	53		BF62307-BSD1
68	54		0606340-01TCLP
69	55		0606340-02TCLP
70	56	✓	BF62307-DUP1
71	57	✓	BF62307-MS1
72	58	✓	BF62307-SD1
73	3	QC	CCV
74	1	QC	ICCB
75	59	✓	BF62307-PDS1
76	60		060623FILTBK
77	61		0606357-05X10
78	62	✓	BF62230-DUP1X10
79	63	✓	BF62230-MS1X10
80	64	✓	BF62230-SD1X50
81	65	✓	BF62230-PDS1X10
82	3	QC	CCV
83	1	QC	ICCB
84	106	QC	ICSA
85	105	QC	ICSAB
86	0		WASH

Align View XY Axial for analyte Mn 257.640

X-position	Y-position	Intensity
-2.0	15.0	321704.6
-1.6	15.0	466616.2
-1.2	15.0	644461.7
-0.8	15.0	826909.3
-0.4	15.0	990698.4
0.0	15.0	1066251.4
0.4	15.0	1034098.5
0.8	15.0	929256.8
1.2	15.0	743536.2
1.6	15.0	564976.6
2.0	15.0	399019.5
0.0	10.0	1830.5
0.0	10.5	8168.9
0.0	11.0	24631.5
0.0	11.5	63126.7
0.0	12.0	130449.0
0.0	12.5	318362.1
0.0	13.0	450733.3
0.0	13.5	621578.1
0.0	14.0	783790.9
0.0	14.5	1028940.4
0.0	15.0	1059865.1
0.0	15.5	1013248.9
0.0	16.0	912827.2
0.0	16.5	627897.1
0.0	17.0	509549.7
0.0	17.5	377116.5
0.0	18.0	285184.9
0.0	18.5	191499.1
0.0	19.0	85145.5
0.0	19.5	56734.1
0.0	20.0	34457.1
-0.8	15.0	796458.3
-0.4	15.0	995258.0
0.0	15.0	1063751.7
0.4	15.0	1053119.7
0.8	15.0	921694.5
0.0	13.0	448647.1
0.0	13.5	615443.2
0.0	14.0	783910.7
0.0	14.5	1021813.0
0.0	15.0	1054918.4
0.0	15.5	1006507.7
0.0	16.0	929646.5
0.0	16.5	630027.4
0.0	17.0	499200.9

6/23/2006 4:05:42 PM aligned for analyte Mn 257.640

X viewing position set to 0.0 mm having Peak intensity 1054918.4 for Axial viewing  
 Y viewing position set to 15.0 mm having Peak intensity 1054918.4 for Axial viewing

#### Analysis Begun

Start Time: 6/23/2006 4:56:22 PM

Plasma On Time: 6/23/2006 11:34:29 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer Model: Optima 3100 XL, S/N 069N8031701 Autosampler Model: AS-90

Sample Information File: C:\pe\ICP2\Sample Information\062306XA.sif

Batch ID: 062306XA

Results Data Set: 062306xad

Results Library: Q:\Metals\Results\Icp2\Results\Results.mdb

Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank 1

Date Collected: 6/23/2006 4:56:23 PM

Analyst:

Data Type: Original

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Analysis Begun

Start Time: 6/23/2006 6:44:33 PM

Plasma On Time: 6/23/2006 11:34:29 AM

Logged In Analyst: ICP2

Technique: ICP Continuous

Spectrometer Model: Optima 3100 XL, S/N 069N8031701  
Autosampler Model: AS-90

Sample Information File: C:\pe\ICP2\Sample Information\062306XA.sif

Batch ID: 062306XA

Results Data Set: 062306xad

Results Library: Q:\Metals\Results\Icp2\Results\Results.mdb

=====  
Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank 1

Date Collected: 6/23/2006 6:44:33 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:  
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Replicate Data: Calib Blank 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Y 360.073	2328213.5	2328213.5		18:46:04
1	Ag 328.068†	-641.6	-642.0	[0.00] mg/L	18:46:09
1	Al 237.313†	-320.6	-320.8	[0.00] mg/L	18:46:29
1	As 188.979†	-3.0	-3.0	[0.00] mg/L	18:46:29
1	B 182.528†	-28.8	-28.8	[0.00] mg/L	18:46:29
1	Ba 233.527†	-144.9	-145.0	[0.00] mg/L	18:46:29
1	Be 313.107†	5138.8	5141.8	[0.00] mg/L	18:46:09
1	Ca 315.886†	2881.5	2883.2	[0.00] mg/L	18:46:09
1	Cd 228.802†	406.8	407.0	[0.00] mg/L	18:46:29
1	Co 228.616†	-384.0	-384.2	[0.00] mg/L	18:46:29
1	Cr 267.716†	1795.8	1796.9	[0.00] mg/L	18:46:09
1	Cu 324.752†	1337.2	1338.0	[0.00] mg/L	18:46:09
1	Fe 238.204†	1011.1	1011.7	[0.00] mg/L	18:46:29
1	Fe 234.349†	252.1	252.2	[0.00] mg/L	18:46:29
1	Mg 279.077†	-96.0	-96.1	[0.00] mg/L	18:46:09
1	Mn 257.610†	857.8	858.2	[0.00] mg/L	18:46:09
1	Mo 202.031†	14.6	14.6	[0.00] mg/L	18:46:29
1	Na 330.237†	1140.0	1140.7	[0.00] mg/L	18:46:09
1	Ni 231.604†	373.3	373.5	[0.00] mg/L	18:46:29
1	Pb 220.353†	-102.8	-102.9	[0.00] mg/L	18:46:29
1	Sb 206.836†	74.9	75.0	[0.00] mg/L	18:46:29
1	Se 196.026†	-0.9	-0.9	[0.00] mg/L	18:46:29
1	Sn 189.927†	77.1	77.1	[0.00] mg/L	18:46:29
1	Ti 337.279†	957.1	957.7	[0.00] mg/L	18:46:09
1	Tl 190.801†	-16.3	-16.4	[0.00] mg/L	18:46:29
1	V 292.402†	2437.6	2439.0	[0.00] mg/L	18:46:09
1	Zn 213.857†	854.3	854.8	[0.00] mg/L	18:46:29
2	Y 360.073	2330922.3	2330922.3		18:46:35
2	Ag 328.068†	-570.8	-570.5	[0.00] mg/L	18:46:40
2	Al 237.313†	-298.4	-298.3	[0.00] mg/L	18:47:01
2	As 188.979†	-2.4	-2.4	[0.00] mg/L	18:47:01
2	B 182.528†	-34.8	-34.8	[0.00] mg/L	18:47:01
2	Ba 233.527†	-134.6	-134.5	[0.00] mg/L	18:47:01
2	Be 313.107†	5187.8	5184.8	[0.00] mg/L	18:46:40
2	Ca 315.886†	2888.5	2886.9	[0.00] mg/L	18:46:40
2	Cd 228.802†	384.8	384.6	[0.00] mg/L	18:47:01
2	Co 228.616†	-404.1	-403.9	[0.00] mg/L	18:47:01
2	Cr 267.716†	1811.0	1810.0	[0.00] mg/L	18:46:40
2	Cu 324.752†	1346.3	1345.5	[0.00] mg/L	18:46:40
2	Fe 238.204†	935.7	935.2	[0.00] mg/L	18:47:01
2	Fe 234.349†	240.4	240.3	[0.00] mg/L	18:47:01
2	Mg 279.077†	-40.4	-40.4	[0.00] mg/L	18:46:40
2	Mn 257.610†	825.8	825.3	[0.00] mg/L	18:46:40
2	Mo 202.031†	11.5	11.4	[0.00] mg/L	18:47:01
2	Na 330.237†	1142.0	1141.3	[0.00] mg/L	18:46:40
2	Ni 231.604†	355.0	354.8	[0.00] mg/L	18:47:01
2	Pb 220.353†	-105.2	-105.1	[0.00] mg/L	18:47:01

2	Sb 206.836†	86.9	86.9	[0.00] mg/L	18:47:01
2	Se 196.026†	-4.7	-4.7	[0.00] mg/L	18:47:01
2	Sn 189.927†	70.1	70.0	[0.00] mg/L	18:47:01
2	Ti 337.279†	1067.4	1066.7	[0.00] mg/L	18:46:40
2	Tl 190.801†	-6.7	-6.7	[0.00] mg/L	18:47:01
2	V 292.402†	2424.0	2422.6	[0.00] mg/L	18:46:40
2	Zn 213.857†	848.8	848.3	[0.00] mg/L	18:47:01

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Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 360.073	2329567.9	1915.42	0.08%		
Ag 328.068†	-606.3	50.57	8.34%	[0.00]	mg/L
Al 237.313†	-309.5	15.93	5.15%	[0.00]	mg/L
As 188.979†	-2.7	0.47	17.37%	[0.00]	mg/L
B 182.528†	-31.8	4.24	13.33%	[0.00]	mg/L
Ba 233.527†	-139.7	7.38	5.28%	[0.00]	mg/L
Be 313.107†	5163.3	30.45	0.59%	[0.00]	mg/L
Ca 315.886†	2885.0	2.61	0.09%	[0.00]	mg/L
Cd 228.802†	395.8	15.88	4.01%	[0.00]	mg/L
Co 228.616†	-394.0	13.92	3.53%	[0.00]	mg/L
Cr 267.716†	1803.4	9.25	0.51%	[0.00]	mg/L
Cu 324.752†	1341.8	5.33	0.40%	[0.00]	mg/L
Fe 238.204†	973.4	54.10	5.56%	[0.00]	mg/L
Fe 234.349†	246.3	8.43	3.42%	[0.00]	mg/L
Mg 279.077†	-68.3	39.39	57.71%	[0.00]	mg/L
Mn 257.610†	841.8	23.31	2.77%	[0.00]	mg/L
Mo 202.031†	13.0	2.25	17.24%	[0.00]	mg/L
Na 330.237†	1141.0	0.49	0.04%	[0.00]	mg/L
Ni 231.604†	364.1	13.27	3.65%	[0.00]	mg/L
Pb 220.353†	-104.0	1.58	1.52%	[0.00]	mg/L
Sb 206.836†	80.9	8.40	10.38%	[0.00]	mg/L
Se 196.026†	-2.8	2.70	96.85%	[0.00]	mg/L
Sn 189.927†	73.6	5.01	6.81%	[0.00]	mg/L
Ti 337.279†	1012.2	77.13	7.62%	[0.00]	mg/L
Tl 190.801†	-11.5	6.79	58.85%	[0.00]	mg/L
V 292.402†	2430.8	11.59	0.48%	[0.00]	mg/L
Zn 213.857†	851.5	4.55	0.53%	[0.00]	mg/L

=====

Sequence No.: 2

Sample ID: Calib Std 1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 6/23/2006 6:48:37 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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Replicate Data: Calib Std 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib Conc.	Units	Analysis Time
1	Y 360.073	2336435.1	2336435.1			18:50:09
1	Ag 328.068†	16643.3	17200.6	[0.0500]	mg/L	18:50:14
1	Al 237.313†	4273.4	4570.4	[0.5]	mg/L	18:50:14
1	As 188.979†	122.6	125.0	[0.1000]	mg/L	18:50:34
1	B 182.528†	92.4	123.9	[0.1000]	mg/L	18:50:34
1	Ba 233.527†	18767.4	18852.0	[0.1000]	mg/L	18:50:14
1	Be 313.107†	70189.2	64819.6	[0.0100]	mg/L	18:50:09
1	Ca 315.886†	156570.6	153225.4	[1.0000]	mg/L	18:50:14
1	Cd 228.802†	4575.9	4166.6	[0.0500]	mg/L	18:50:34
1	Co 228.616†	7043.7	7417.1	[0.1000]	mg/L	18:50:14
1	Cr 267.716†	17577.2	15722.1	[0.1000]	mg/L	18:50:14
1	Cu 324.752†	20038.5	18637.8	[0.1000]	mg/L	18:50:14
1	Fe 238.204†	66457.0	65288.2	[0.5]	mg/L	18:50:14
1	Fe 234.349†	21512.4	21202.9	[0.5]	mg/L	18:50:14
1	Mg 279.077†	22521.6	22523.7	[1.0000]	mg/L	18:50:14
1	Mn 257.610†	104798.7	103648.9	[0.1000]	mg/L	18:50:14
1	Mo 202.031†	1370.7	1353.7	[0.1000]	mg/L	18:50:34
1	Na 330.237†	3234.9	2084.4	[5.0000]	mg/L	18:50:14
1	Ni 231.604†	6298.2	5915.6	[0.1000]	mg/L	18:50:14
1	Pb 220.353†	820.8	922.4	[0.1000]	mg/L	18:50:34

1	Sb 206.836†	446.2	363.9	[0.1000] mg/L	18:50:34
1	Se 196.026†	141.5	143.9	[0.2000] mg/L	18:50:34
1	Sn 189.927†	407.0	332.2	[0.1000] mg/L	18:50:34
1	Ti 337.279†	80745.5	79496.0	[0.1000] mg/L	18:50:14
1	Tl 190.801†	101.8	113.1	[0.1000] mg/L	18:50:34
1	V 292.402†	27784.4	25272.0	[0.1000] mg/L	18:50:14
1	Zn 213.857†	10488.1	9605.7	[0.1000] mg/L	18:50:14
2	Y 360.073	2346041.3	2346041.3		18:50:40
2	Ag 328.068†	16527.5	17017.7	[0.0500] mg/L	18:50:46
2	Al 237.313†	4276.9	4556.4	[0.5] mg/L	18:50:46
2	As 188.979†	127.6	129.4	[0.1000] mg/L	18:51:06
2	B 182.528†	99.3	130.3	[0.1000] mg/L	18:51:06
2	Ba 233.527†	18604.8	18613.9	[0.1000] mg/L	18:50:46
2	Be 313.107†	70403.2	64745.5	[0.0100] mg/L	18:50:40
2	Ca 315.886†	155426.3	151449.9	[1.0000] mg/L	18:50:46
2	Cd 228.802†	4559.9	4132.1	[0.0500] mg/L	18:51:06
2	Co 228.616†	6972.2	7317.2	[0.1000] mg/L	18:50:46
2	Cr 267.716†	17402.1	15476.5	[0.1000] mg/L	18:50:46
2	Cu 324.752†	19762.1	18281.6	[0.1000] mg/L	18:50:46
2	Fe 238.204†	65981.2	64544.5	[0.5] mg/L	18:50:46
2	Fe 234.349†	21370.2	20973.9	[0.5] mg/L	18:50:46
2	Mg 279.077†	22253.0	22165.0	[1.0000] mg/L	18:50:46
2	Mn 257.610†	104007.3	102435.2	[0.1000] mg/L	18:50:46
2	Mo 202.031†	1381.8	1359.1	[0.1000] mg/L	18:51:06
2	Na 330.237†	3256.0	2092.1	[5.0000] mg/L	18:50:46
2	Ni 231.604†	6238.6	5830.6	[0.1000] mg/L	18:50:46
2	Pb 220.353†	823.6	921.9	[0.1000] mg/L	18:51:06
2	Sb 206.836†	455.9	371.8	[0.1000] mg/L	18:51:06
2	Se 196.026†	140.8	142.6	[0.2000] mg/L	18:51:06
2	Sn 189.927†	394.0	317.7	[0.1000] mg/L	18:51:06
2	Ti 337.279†	79958.7	78385.1	[0.1000] mg/L	18:50:46
2	Tl 190.801†	109.3	120.0	[0.1000] mg/L	18:51:06
2	V 292.402†	27454.5	24830.9	[0.1000] mg/L	18:50:46
2	Zn 213.857†	10408.5	9483.8	[0.1000] mg/L	18:50:46

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Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 360.073	2341238.2	6792.62	0.29%		
Ag 328.068†	17109.2	129.32	0.76%	[0.0500]	mg/L
Al 237.313†	4563.4	9.88	0.22%	[0.5]	mg/L
As 188.979†	127.2	3.11	2.45%	[0.1000]	mg/L
B 182.528†	127.1	4.54	3.57%	[0.1000]	mg/L
Ba 233.527†	18732.9	168.36	0.90%	[0.1000]	mg/L
Be 313.107†	64782.6	52.35	0.08%	[0.0100]	mg/L
Ca 315.886†	152337.6	1255.49	0.82%	[1.0000]	mg/L
Cd 228.802†	4149.4	24.41	0.59%	[0.0500]	mg/L
Co 228.616†	7367.2	70.59	0.96%	[0.1000]	mg/L
Cr 267.716†	15599.3	173.70	1.11%	[0.1000]	mg/L
Cu 324.752†	18459.7	251.90	1.36%	[0.1000]	mg/L
Fe 238.204†	64916.4	525.91	0.81%	[0.5]	mg/L
Fe 234.349†	21088.4	161.93	0.77%	[0.5]	mg/L
Mg 279.077†	22344.3	253.63	1.14%	[1.0000]	mg/L
Mn 257.610†	103042.1	858.22	0.83%	[0.1000]	mg/L
Mo 202.031†	1356.4	3.84	0.28%	[0.1000]	mg/L
Na 330.237†	2088.2	5.46	0.26%	[5.0000]	mg/L
Ni 231.604†	5873.1	60.09	1.02%	[0.1000]	mg/L
Pb 220.353†	922.1	0.39	0.04%	[0.1000]	mg/L
Sb 206.836†	367.9	5.56	1.51%	[0.1000]	mg/L
Se 196.026†	143.2	0.95	0.66%	[0.2000]	mg/L
Sn 189.927†	325.0	10.31	3.17%	[0.1000]	mg/L
Ti 337.279†	78940.5	785.52	1.00%	[0.1000]	mg/L
Tl 190.801†	116.6	4.93	4.23%	[0.1000]	mg/L
V 292.402†	25051.4	311.87	1.24%	[0.1000]	mg/L
Zn 213.857†	9544.8	86.17	0.90%	[0.1000]	mg/L

Sequence No.: 3  
Sample ID: Calib Std 2  
Analyst:

Autosampler Location: 3  
Date Collected: 6/23/2006 6:52:43 PM  
Data Type: Original

Initial Sample Wt:  
Dilution:Initial Sample Vol:  
Sample Prep Vol:-----  
Replicate Data: Calib Std 2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Y 360.073	2353156.3	2353156.3			18:54:17
1	Ag 328.068†	83771.1	83537.7	[0.2500]	mg/L	18:54:22
1	Al 237.313†	22188.6	22275.7	[2.5]	mg/L	18:54:22
1	As 188.979†	599.8	596.4	[0.5000]	mg/L	18:54:42
1	B 182.528†	588.8	614.7	[0.5000]	mg/L	18:54:42
1	Ba 233.527†	90968.9	90196.8	[0.5000]	mg/L	18:54:22
1	Be 313.107†	323583.2	315176.2	[0.0500]	mg/L	18:54:17
1	Ca 315.886†	754338.2	743891.6	[5.0000]	mg/L	18:54:17
1	Cd 228.802†	21288.2	20679.0	[0.2500]	mg/L	18:54:22
1	Co 228.616†	35420.0	35458.9	[0.5000]	mg/L	18:54:22
1	Cr 267.716†	77980.7	75395.6	[0.5000]	mg/L	18:54:22
1	Cu 324.752†	92442.0	90173.6	[0.5000]	mg/L	18:54:22
1	Fe 238.204†	317826.4	313667.1	[2.5]	mg/L	18:54:22
1	Fe 234.349†	103044.8	101765.7	[2.5]	mg/L	18:54:22
1	Mg 279.077†	109678.0	108646.8	[5.0000]	mg/L	18:54:22
1	Mn 257.610†	508366.2	502428.5	[0.5000]	mg/L	18:54:17
1	Mo 202.031†	6652.2	6572.5	[0.5000]	mg/L	18:54:42
1	Na 330.237†	12190.5	10927.3	[25.0000]	mg/L	18:54:22
1	Ni 231.604†	29092.1	28436.3	[0.5000]	mg/L	18:54:22
1	Pb 220.353†	4470.5	4529.7	[0.5000]	mg/L	18:54:42
1	Sb 206.836†	1919.1	1819.0	[0.5000]	mg/L	18:54:42
1	Se 196.026†	703.9	699.7	[1.0000]	mg/L	18:54:42
1	Sn 189.927†	1661.0	1570.8	[0.5000]	mg/L	18:54:42
1	Ti 337.279†	395895.5	390914.8	[0.5000]	mg/L	18:54:17
1	Tl 190.801†	590.9	596.5	[0.5000]	mg/L	18:54:42
1	V 292.402†	125721.8	122030.8	[0.5000]	mg/L	18:54:22
1	Zn 213.857†	47517.4	46189.5	[0.5000]	mg/L	18:54:22
2	Y 360.073	2352680.1	2352680.1			18:54:49
2	Ag 328.068†	84571.7	84347.1	[0.2500]	mg/L	18:54:55
2	Al 237.313†	22225.8	22317.0	[2.5]	mg/L	18:54:55
2	As 188.979†	601.2	598.0	[0.5000]	mg/L	18:55:15
2	B 182.528†	603.3	629.1	[0.5000]	mg/L	18:55:15
2	Ba 233.527†	91517.6	90758.3	[0.5000]	mg/L	18:54:55
2	Be 313.107†	323132.5	314794.9	[0.0500]	mg/L	18:54:49
2	Ca 315.886†	753684.0	743395.0	[5.0000]	mg/L	18:54:49
2	Cd 228.802†	21424.5	20818.2	[0.2500]	mg/L	18:54:55
2	Co 228.616†	35700.3	35743.7	[0.5000]	mg/L	18:54:55
2	Cr 267.716†	78553.8	75978.7	[0.5000]	mg/L	18:54:55
2	Cu 324.752†	93282.5	91024.3	[0.5000]	mg/L	18:54:55
2	Fe 238.204†	319660.6	315546.9	[2.5]	mg/L	18:54:55
2	Fe 234.349†	103785.6	102519.8	[2.5]	mg/L	18:54:55
2	Mg 279.077†	110372.0	109355.9	[5.0000]	mg/L	18:54:55
2	Mn 257.610†	507497.7	501670.4	[0.5000]	mg/L	18:54:49
2	Mo 202.031†	6687.9	6609.2	[0.5000]	mg/L	18:55:15
2	Na 330.237†	12311.0	11049.0	[25.0000]	mg/L	18:54:55
2	Ni 231.604†	29167.2	28516.5	[0.5000]	mg/L	18:54:55
2	Pb 220.353†	4444.6	4505.0	[0.5000]	mg/L	18:55:15
2	Sb 206.836†	1928.6	1828.7	[0.5000]	mg/L	18:55:15
2	Se 196.026†	714.1	709.8	[1.0000]	mg/L	18:55:15
2	Sn 189.927†	1670.5	1580.5	[0.5000]	mg/L	18:55:15
2	Ti 337.279†	395149.2	390255.1	[0.5000]	mg/L	18:54:49
2	Tl 190.801†	598.1	603.8	[0.5000]	mg/L	18:55:15
2	V 292.402†	126598.6	122924.2	[0.5000]	mg/L	18:54:55
2	Zn 213.857†	47811.1	46489.8	[0.5000]	mg/L	18:54:55

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Mean Data: Calib Std 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Y 360.073	2352918.2	336.75	0.01%	
Ag 328.068†	83942.4	572.38	0.68%	[0.2500] mg/L
Al 237.313†	22296.3	29.18	0.13%	[2.5] mg/L
As 188.979†	597.2	1.09	0.18%	[0.5000] mg/L
B 182.528†	621.9	10.20	1.64%	[0.5000] mg/L



Ba 233.527†	90477.5	397.03	0.44%	[0.5000]	mg/L
Be 313.107†	314985.6	269.65	0.09%	[0.0500]	mg/L
Ca 315.886†	743643.3	351.19	0.05%	[5.0000]	mg/L
Cd 228.802†	20748.6	98.41	0.47%	[0.2500]	mg/L
Co 228.616†	35601.3	201.32	0.57%	[0.5000]	mg/L
Cr 267.716†	75687.1	412.32	0.54%	[0.5000]	mg/L
Cu 324.752†	90599.0	601.52	0.66%	[0.5000]	mg/L
Fe 238.204†	314607.0	1329.27	0.42%	[2.5]	mg/L
Fe 234.349†	102142.7	533.25	0.52%	[2.5]	mg/L
Mg 279.077†	109001.4	501.45	0.46%	[5.0000]	mg/L
Mn 257.610†	502049.5	536.03	0.11%	[0.5000]	mg/L
Mo 202.031†	6590.8	25.92	0.39%	[0.5000]	mg/L
Na 330.237†	10988.2	86.10	0.78%	[25.0000]	mg/L
Ni 231.604†	28476.4	56.71	0.20%	[0.5000]	mg/L
Pb 220.353†	4517.4	17.52	0.39%	[0.5000]	mg/L
Sb 206.836†	1823.8	6.87	0.38%	[0.5000]	mg/L
Se 196.026†	704.8	7.19	1.02%	[1.0000]	mg/L
Sn 189.927†	1575.6	6.85	0.43%	[0.5000]	mg/L
Ti 337.279†	390585.0	466.47	0.12%	[0.5000]	mg/L
Tl 190.801†	600.1	5.12	0.85%	[0.5000]	mg/L
V 292.402†	122477.5	631.75	0.52%	[0.5000]	mg/L
Zn 213.857†	46339.7	212.35	0.46%	[0.5000]	mg/L

Sequence No.: 4

Sample ID: Calib Std 3

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 6/23/2006 6:56:52 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: Calib Std 3

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	Y 360.073	2360401.8	2360401.8		18:58:30
1	Ag 328.068†	172628.4	170979.6	[0.5000] mg/L	18:58:30
1	Al 237.313†	45691.6	45404.3	[5] mg/L	18:58:30
1	As 188.979†	1207.1	1194.0	[1.0000] mg/L	18:58:50
1	B 182.528†	1223.5	1239.3	[1.0000] mg/L	18:58:50
1	Ba 233.527†	184995.3	182718.5	[1.0000] mg/L	18:58:30
1	Be 313.107†	648417.3	634783.8	[0.1000] mg/L	18:58:30
1	Ca 315.886†	1511392.1	1488763.8	[10.0000] mg/L	18:58:30
1	Cd 228.802†	42795.3	41840.4	[0.5000] mg/L	18:58:30
1	Co 228.616†	71978.2	71431.9	[1.0000] mg/L	18:58:30
1	Cr 267.716†	155962.9	152122.1	[1.0000] mg/L	18:58:30
1	Cu 324.752†	190231.5	186404.8	[1.0000] mg/L	18:58:30
1	Fe 238.204†	643451.9	634073.1	[5] mg/L	18:58:30
1	Fe 234.349†	209441.1	206458.9	[5] mg/L	18:58:30
1	Mg 279.077†	223197.4	220350.1	[10.0000] mg/L	18:58:30
1	Mn 257.610†	1016112.3	1001997.1	[1.0000] mg/L	18:58:30
1	Mo 202.031†	13332.2	13145.0	[1.0000] mg/L	18:58:50
1	Na 330.237†	25266.9	23795.8	[50.0000] mg/L	18:58:30
1	Ni 231.604†	58232.6	57107.8	[1.0000] mg/L	18:58:30
1	Pb 220.353†	9116.2	9101.1	[1.0000] mg/L	18:58:50
1	Sb 206.836†	3791.7	3661.2	[1.0000] mg/L	18:58:50
1	Se 196.026†	1440.0	1423.9	[2.0000] mg/L	18:58:50
1	Sn 189.927†	3254.4	3138.3	[1.0000] mg/L	18:58:50
1	Ti 337.279†	798550.8	787107.1	[1.0000] mg/L	18:58:30
1	Tl 190.801†	1206.0	1201.8	[1.0000] mg/L	18:58:50
1	V 292.402†	253717.4	247972.3	[1.0000] mg/L	18:58:30
1	Zn 213.857†	95690.9	93589.3	[1.0000] mg/L	18:58:30
2	Y 360.073	2340729.8	2340729.8		18:59:00
2	Ag 328.068†	170812.1	170603.8	[0.5000] mg/L	18:59:00
2	Al 237.313†	45267.6	45361.2	[5] mg/L	18:59:00
2	As 188.979†	1205.9	1202.9	[1.0000] mg/L	18:59:21
2	B 182.528†	1227.4	1253.3	[1.0000] mg/L	18:59:21
2	Ba 233.527†	183835.7	183098.8	[1.0000] mg/L	18:59:00
2	Be 313.107†	643379.2	635147.9	[0.1000] mg/L	18:59:00
2	Ca 315.886†	1503064.5	1493012.1	[10.0000] mg/L	18:59:00
2	Cd 228.802†	42524.1	41925.5	[0.5000] mg/L	18:59:00
2	Co 228.616†	71485.4	71538.6	[1.0000] mg/L	18:59:00

2	Cr 267.716†	154929.0	152386.8	[1.0000]	mg/L	18:59:00
2	Cu 324.752†	187690.3	185453.5	[1.0000]	mg/L	18:59:00
2	Fe 238.204†	639316.8	635294.8	[5]	mg/L	18:59:00
2	Fe 234.349†	208140.6	206901.8	[5]	mg/L	18:59:00
2	Mg 279.077†	222150.2	221159.1	[10.0000]	mg/L	18:59:00
2	Mn 257.610†	1009062.2	1003408.7	[1.0000]	mg/L	18:59:00
2	Mo 202.031†	13357.1	13280.3	[1.0000]	mg/L	18:59:21
2	Na 330.237†	24992.2	23732.1	[50.0000]	mg/L	18:59:00
2	Ni 231.604†	57846.7	57206.7	[1.0000]	mg/L	18:59:00
2	Pb 220.353†	9075.2	9135.9	[1.0000]	mg/L	18:59:21
2	Sb 206.836†	3783.7	3684.7	[1.0000]	mg/L	18:59:21
2	Se 196.026†	1436.0	1432.0	[2.0000]	mg/L	18:59:21
2	Sn 189.927†	3252.0	3163.0	[1.0000]	mg/L	18:59:21
2	Ti 337.279†	790442.1	785660.7	[1.0000]	mg/L	18:59:00
2	Tl 190.801†	1208.5	1214.3	[1.0000]	mg/L	18:59:21
2	V 292.402†	251621.0	247990.4	[1.0000]	mg/L	18:59:00
2	Zn 213.857†	95125.4	93820.3	[1.0000]	mg/L	18:59:00

## Mean Data: Calib Std 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 360.073	2350565.8	13910.20	0.59%		
Ag 328.068†	170791.7	265.74	0.16%	[0.5000]	mg/L
Al 237.313†	45382.8	30.44	0.07%	[5]	mg/L
As 188.979†	1198.4	6.24	0.52%	[1.0000]	mg/L
B 182.528†	1246.3	9.91	0.80%	[1.0000]	mg/L
Ba 233.527†	182908.6	268.93	0.15%	[1.0000]	mg/L
Be 313.107†	634965.8	257.49	0.04%	[0.1000]	mg/L
Ca 315.886†	1490888.0	3003.99	0.20%	[10.0000]	mg/L
Cd 228.802†	41883.0	60.14	0.14%	[0.5000]	mg/L
Co 228.616†	71485.3	75.39	0.11%	[1.0000]	mg/L
Cr 267.716†	152254.5	187.17	0.12%	[1.0000]	mg/L
Cu 324.752†	185929.2	672.64	0.36%	[1.0000]	mg/L
Fe 238.204†	634683.9	863.88	0.14%	[5]	mg/L
Fe 234.349†	206680.4	313.21	0.15%	[5]	mg/L
Mg 279.077†	220754.6	572.08	0.26%	[10.0000]	mg/L
Mn 257.610†	1002702.9	998.16	0.10%	[1.0000]	mg/L
Mo 202.031†	13212.7	95.69	0.72%	[1.0000]	mg/L
Na 330.237†	23763.9	45.09	0.19%	[50.0000]	mg/L
Ni 231.604†	57157.2	69.94	0.12%	[1.0000]	mg/L
Pb 220.353†	9118.5	24.61	0.27%	[1.0000]	mg/L
Sb 206.836†	3673.0	16.62	0.45%	[1.0000]	mg/L
Se 196.026†	1427.9	5.67	0.40%	[2.0000]	mg/L
Sn 189.927†	3150.6	17.42	0.55%	[1.0000]	mg/L
Ti 337.279†	786383.9	1022.82	0.13%	[1.0000]	mg/L
Tl 190.801†	1208.0	8.87	0.73%	[1.0000]	mg/L
V 292.402†	247981.4	12.77	0.01%	[1.0000]	mg/L
Zn 213.857†	93704.8	163.29	0.17%	[1.0000]	mg/L

## Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin, Calc Int	-256.3	341100	0.00000	0.999957	
Al 237.313	3	Lin, Calc Int	-62.1	9061	0.00000	0.999953	
As 188.979	3	Lin, Calc Int	2.9	1195	0.00000	0.999977	
B 182.528	3	Lin, Calc Int	0.9	1245	0.00000	0.999997	
Ba 233.527	3	Lin, Calc Int	14.9	182500	0.00000	0.999976	
Be 313.107	3	Lin, Calc Int	107.2	6339000	0.00000	0.999986	
Ca 315.886	3	Lin, Calc Int	1107.0	148900	0.00000	0.999996	
Cd 228.802	3	Lin, Calc Int	-53.0	83740	0.00000	0.999988	
Co 228.616	3	Lin, Calc Int	70.8	71360	0.00000	0.999991	
Cr 267.716	3	Lin, Calc Int	84.2	152000	0.00000	0.999990	
Cu 324.752	3	Lin, Calc Int	-497.9	185600	0.00000	0.999907	
Fe 238.204	3	Lin, Calc Int	135.0	126700	0.00000	0.999983	
Fe 234.349	3	Lin, Calc Int	-35.6	41260	0.00000	0.999974	
Mg 279.077	3	Lin, Calc Int	-136.0	22040	0.00000	0.999974	
Mn 257.610	3	Lin, Calc Int	1358.9	1001000	0.00000	0.999997	
Mo 202.031	3	Lin, Calc Int	12.7	13190	0.00000	0.999995	
Na 330.237	3	Lin, Calc Int	-293.6	475.2	0.00000	0.999240	

Ni 231.604	3	Lin, Calc Int	50.8	57060	0.00000	0.999993
Pb 220.353	3	Lin, Calc Int	-3.2	9107	0.00000	0.999985
Sb 206.836	3	Lin, Calc Int	-2.1	3671	0.00000	0.999993
Se 196.026	3	Lin, Calc Int	-1.5	713.1	0.00000	0.999975
Sn 189.927	3	Lin, Calc Int	4.4	3146	0.00000	0.999995
Ti 337.279	3	Lin, Calc Int	-349.5	785800	0.00000	0.999993
Tl 190.801	3	Lin, Calc Int	-2.6	1209	0.00000	0.999992
V 292.402	3	Lin, Calc Int	-168.3	247600	0.00000	0.999975
Zn 213.857	3	Lin, Calc Int	-17.8	93540	0.00000	0.999977

Sequence No.: 5

Sample ID: STD2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/23/2006 7:00:59 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: STD2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2348901.3	2348901.3			19:02:32
1	Ag 328.068†	84120.8	84034.6	0.2472 mg/L	0.2472 mg/L	19:02:38
1	Al 237.313†	22250.3	22376.7	2.455 mg/L	2.455 mg/L	19:02:38
1	As 188.979†	605.0	602.7	0.5036 mg/L	0.5036 mg/L	19:02:58
1	B 182.528†	592.0	618.9	0.4965 mg/L	0.4965 mg/L	19:02:58
1	Ba 233.527†	91259.5	90648.1	0.4962 mg/L	0.4962 mg/L	19:02:38
1	Be 313.107†	324361.8	316528.8	0.0499 mg/L	0.0499 mg/L	19:02:32
1	Ca 315.886†	755902.7	746796.0	5.008 mg/L	5.008 mg/L	19:02:32
1	Cd 228.802†	21380.8	20809.0	0.2470 mg/L	0.2470 mg/L	19:02:38
1	Co 228.616†	35598.7	35699.7	0.4979 mg/L	0.4979 mg/L	19:02:38
1	Cr 267.716†	78219.7	75772.4	0.4980 mg/L	0.4980 mg/L	19:02:38
1	Cu 324.752†	93019.8	90912.5	0.4927 mg/L	0.4927 mg/L	19:02:38
1	Fe 238.204†	318836.3	315238.6	2.488 mg/L	2.488 mg/L	19:02:38
1	Fe 234.349†	103366.4	102269.3	2.475 mg/L	2.475 mg/L	19:02:38
1	Mg 279.077†	109934.3	109097.7	4.953 mg/L	4.953 mg/L	19:02:38
1	Mn 257.610†	509591.2	504555.0	0.5025 mg/L	0.5025 mg/L	19:02:32
1	Mo 202.031†	6720.8	6652.5	0.5038 mg/L	0.5038 mg/L	19:02:58
1	Na 330.237†	12222.6	10981.0	23.72 mg/L	23.72 mg/L	19:02:38
1	Ni 231.604†	29119.4	28515.6	0.4985 mg/L	0.4985 mg/L	19:02:38
1	Pb 220.353†	4472.7	4539.9	0.5011 mg/L	0.5011 mg/L	19:02:58
1	Sb 206.836†	1924.3	1827.5	0.4918 mg/L	0.4918 mg/L	19:02:58
1	Se 196.026†	714.0	710.9	0.9990 mg/L	0.9990 mg/L	19:02:58
1	Sn 189.927†	1665.5	1578.2	0.5014 mg/L	0.5014 mg/L	19:02:58
1	Ti 337.279†	397031.9	392751.8	0.5002 mg/L	0.5002 mg/L	19:02:32
1	Tl 190.801†	608.6	615.1	0.5106 mg/L	0.5106 mg/L	19:02:58
1	V 292.402†	126015.2	122547.2	0.4989 mg/L	0.4989 mg/L	19:02:38
1	Zn 213.857†	47715.0	46470.7	0.4939 mg/L	0.4939 mg/L	19:02:38
2	Y 360.073	2358273.3	2358273.3			19:03:05
2	Ag 328.068†	84262.1	83842.7	0.2467 mg/L	0.2467 mg/L	19:03:10
2	Al 237.313†	22227.0	22266.0	2.443 mg/L	2.443 mg/L	19:03:10
2	As 188.979†	607.1	602.4	0.5034 mg/L	0.5034 mg/L	19:03:30
2	B 182.528†	606.4	630.8	0.5060 mg/L	0.5060 mg/L	19:03:30
2	Ba 233.527†	91504.4	90530.4	0.4955 mg/L	0.4955 mg/L	19:03:10
2	Be 313.107†	325105.4	315984.8	0.0499 mg/L	0.0499 mg/L	19:03:05
2	Ca 315.886†	757570.7	745464.3	4.999 mg/L	4.999 mg/L	19:03:05
2	Cd 228.802†	21341.3	20685.7	0.2455 mg/L	0.2455 mg/L	19:03:10
2	Co 228.616†	35607.8	35568.4	0.4960 mg/L	0.4960 mg/L	19:03:10
2	Cr 267.716†	78404.7	75646.9	0.4972 mg/L	0.4972 mg/L	19:03:10
2	Cu 324.752†	93033.6	90559.4	0.4908 mg/L	0.4908 mg/L	19:03:10
2	Fe 238.204†	319305.7	314445.6	2.481 mg/L	2.481 mg/L	19:03:10
2	Fe 234.349†	103535.8	102029.3	2.469 mg/L	2.469 mg/L	19:03:10
2	Mg 279.077†	110296.7	109022.4	4.949 mg/L	4.949 mg/L	19:03:10
2	Mn 257.610†	510788.9	503729.7	0.5017 mg/L	0.5017 mg/L	19:03:05
2	Mo 202.031†	6727.5	6632.6	0.5023 mg/L	0.5023 mg/L	19:03:30
2	Na 330.237†	12266.3	10976.0	23.71 mg/L	23.71 mg/L	19:03:10
2	Ni 231.604†	29178.7	28459.3	0.4975 mg/L	0.4975 mg/L	19:03:10
2	Pb 220.353†	4494.7	4544.0	0.5015 mg/L	0.5015 mg/L	19:03:30
2	Sb 206.836†	1924.6	1820.2	0.4898 mg/L	0.4898 mg/L	19:03:30
2	Se 196.026†	723.0	717.0	1.008 mg/L	1.008 mg/L	19:03:30
2	Sn 189.927†	1657.3	1563.6	0.4968 mg/L	0.4968 mg/L	19:03:30

2	Ti 337.279†	398472.4	392609.9	0.5001 mg/L	0.5001 mg/L	19:03:05
2	Tl 190.801†	619.7	623.7	0.5177 mg/L	0.5177 mg/L	19:03:30
2	V 292.402†	126290.5	122322.5	0.4980 mg/L	0.4980 mg/L	19:03:10
2	Zn 213.857†	47726.2	46293.8	0.4920 mg/L	0.4920 mg/L	19:03:10

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Mean Data: STD2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2353587.3				6627.02	0.28%
Ag 328.068†	83938.7	0.2469 mg/L	0.00040	0.2469 mg/L	0.00040	0.16%
QC value within limits for Ag 328.068		Recovery = 98.78%				
Al 237.313†	22321.4	2.449 mg/L	0.0086	2.449 mg/L	0.0086	0.35%
QC value within limits for Al 237.313		Recovery = 97.97%				
As 188.979†	602.6	0.5035 mg/L	0.00017	0.5035 mg/L	0.00017	0.03%
QC value within limits for As 188.979		Recovery = 100.70%				
B 182.528†	624.9	0.5012 mg/L	0.00672	0.5012 mg/L	0.00672	1.34%
QC value within limits for B 182.528		Recovery = 100.25%				
Ba 233.527†	90589.2	0.4958 mg/L	0.00046	0.4958 mg/L	0.00046	0.09%
QC value within limits for Ba 233.527		Recovery = 99.17%				
Be 313.107†	316256.8	0.0499 mg/L	0.00006	0.0499 mg/L	0.00006	0.12%
QC value within limits for Be 313.107		Recovery = 99.80%				
Ca 315.886†	746130.2	5.004 mg/L	0.0063	5.004 mg/L	0.0063	0.13%
QC value within limits for Ca 315.886		Recovery = 100.08%				
Cd 228.802†	20747.3	0.2462 mg/L	0.00104	0.2462 mg/L	0.00104	0.42%
QC value within limits for Cd 228.802		Recovery = 98.49%				
Co 228.616†	35634.1	0.4969 mg/L	0.00130	0.4969 mg/L	0.00130	0.26%
QC value within limits for Co 228.616		Recovery = 99.39%				
Cr 267.716†	75709.7	0.4976 mg/L	0.00058	0.4976 mg/L	0.00058	0.12%
QC value within limits for Cr 267.716		Recovery = 99.52%				
Cu 324.752†	90735.9	0.4917 mg/L	0.00135	0.4917 mg/L	0.00135	0.27%
QC value within limits for Cu 324.752		Recovery = 98.35%				
Fe 238.204†	314842.1	2.485 mg/L	0.0044	2.485 mg/L	0.0044	0.18%
QC value within limits for Fe 238.204		Recovery = 99.38%				
Fe 234.349†	102149.3	2.472 mg/L	0.0041	2.472 mg/L	0.0041	0.17%
QC value within limits for Fe 234.349		Recovery = 98.89%				
Mg 279.077†	109060.0	4.951 mg/L	0.0024	4.951 mg/L	0.0024	0.05%
QC value within limits for Mg 279.077		Recovery = 99.02%				
Mn 257.610†	504142.4	0.5021 mg/L	0.00058	0.5021 mg/L	0.00058	0.12%
QC value within limits for Mn 257.610		Recovery = 100.43%				
Mo 202.031†	6642.5	0.5030 mg/L	0.00106	0.5030 mg/L	0.00106	0.21%
QC value within limits for Mo 202.031		Recovery = 100.60%				
Na 330.237†	10978.5	23.72 mg/L	0.007	23.72 mg/L	0.007	0.03%
QC value less than the lower limit for Na 330.237		Recovery = 94.86%				
Ni 231.604†	28487.5	0.4980 mg/L	0.00070	0.4980 mg/L	0.00070	0.14%
QC value within limits for Ni 231.604		Recovery = 99.59%				
Pb 220.353†	4541.9	0.5013 mg/L	0.00031	0.5013 mg/L	0.00031	0.06%
QC value within limits for Pb 220.353		Recovery = 100.26%				
Sb 206.836†	1823.9	0.4908 mg/L	0.00140	0.4908 mg/L	0.00140	0.29%
QC value within limits for Sb 206.836		Recovery = 98.15%				
Se 196.026†	713.9	1.003 mg/L	0.0061	1.003 mg/L	0.0061	0.60%
QC value within limits for Se 196.026		Recovery = 100.33%				
Sn 189.927†	1570.9	0.4991 mg/L	0.00329	0.4991 mg/L	0.00329	0.66%
QC value within limits for Sn 189.927		Recovery = 99.82%				
Ti 337.279†	392680.9	0.5002 mg/L	0.00013	0.5002 mg/L	0.00013	0.03%
QC value within limits for Ti 337.279		Recovery = 100.03%				
Tl 190.801†	619.4	0.5142 mg/L	0.00503	0.5142 mg/L	0.00503	0.98%
QC value within limits for Tl 190.801		Recovery = 102.84%				
V 292.402†	122434.8	0.4984 mg/L	0.00065	0.4984 mg/L	0.00065	0.13%
QC value within limits for V 292.402		Recovery = 99.69%				
Zn 213.857†	46382.2	0.4929 mg/L	0.00133	0.4929 mg/L	0.00133	0.27%
QC value within limits for Zn 213.857		Recovery = 98.59%				
QC Failed. Continue with analysis.						

Sequence No.: 6  
Sample ID: ICV  
Analyst:  
Initial Sample Wt:  
Dilution:

Autosampler Location: 5  
Date Collected: 6/23/2006 7:05:08 PM  
Data Type: Original  
Initial Sample Vol:  
Sample Prep Vol:

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 Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2372574.3	2372574.3			19:06:43
1	Ag 328.068†	84935.8	84002.5	0.2471 mg/L	0.2471 mg/L	19:06:48
1	Al 237.313†	22097.0	22006.0	2.415 mg/L	2.415 mg/L	19:06:48
1	As 188.979†	589.0	581.0	0.4851 mg/L	0.4851 mg/L	19:07:08
1	B 182.528†	596.3	617.2	0.4951 mg/L	0.4951 mg/L	19:07:08
1	Ba 233.527†	90280.7	88784.0	0.4859 mg/L	0.4859 mg/L	19:06:48
1	Be 313.107†	329609.2	318471.2	0.0502 mg/L	0.0502 mg/L	19:06:43
1	Ca 315.886†	764284.2	747545.4	5.013 mg/L	5.013 mg/L	19:06:43
1	Cd 228.802†	21480.9	20695.7	0.2457 mg/L	0.2457 mg/L	19:06:48
1	Co 228.616†	35387.5	35140.1	0.4901 mg/L	0.4901 mg/L	19:06:48
1	Cr 267.716†	78613.5	75385.0	0.4955 mg/L	0.4955 mg/L	19:06:48
1	Cu 324.752†	92700.4	89678.3	0.4860 mg/L	0.4860 mg/L	19:06:48
1	Fe 238.204†	322460.1	315641.6	2.491 mg/L	2.491 mg/L	19:06:48
1	Fe 234.349†	104660.2	102516.8	2.481 mg/L	2.481 mg/L	19:06:48
1	Mg 279.077†	108739.6	106836.8	4.850 mg/L	4.850 mg/L	19:06:48
1	Mn 257.610†	512028.3	501905.3	0.4999 mg/L	0.4999 mg/L	19:06:43
1	Mo 202.031†	6689.2	6554.9	0.4964 mg/L	0.4964 mg/L	19:07:08
1	Na 330.237†	12256.1	10893.0	23.54 mg/L	23.54 mg/L	19:06:48
1	Ni 231.604†	29374.1	28477.5	0.4978 mg/L	0.4978 mg/L	19:06:48
1	Pb 220.353†	4436.1	4459.7	0.4922 mg/L	0.4922 mg/L	19:07:08
1	Sb 206.836†	1884.8	1769.7	0.4760 mg/L	0.4760 mg/L	19:07:08
1	Se 196.026†	721.1	710.8	0.9988 mg/L	0.9988 mg/L	19:07:08
1	Sn 189.927†	1691.1	1586.9	0.5040 mg/L	0.5040 mg/L	19:07:08
1	Ti 337.279†	351268.7	343889.2	0.4381 mg/L	0.4381 mg/L	19:06:43
1	Tl 190.801†	599.5	600.2	0.4982 mg/L	0.4982 mg/L	19:07:08
1	V 292.402†	125542.8	120836.4	0.4920 mg/L	0.4920 mg/L	19:06:48
1	Zn 213.857†	47834.6	46116.0	0.4900 mg/L	0.4900 mg/L	19:06:48
2	Y 360.073	2393802.6	2393802.6			19:07:15
2	Ag 328.068†	85772.2	84076.8	0.2473 mg/L	0.2473 mg/L	19:07:21
2	Al 237.313†	22336.7	22046.9	2.419 mg/L	2.419 mg/L	19:07:21
2	As 188.979†	602.3	588.9	0.4917 mg/L	0.4917 mg/L	19:07:41
2	B 182.528†	600.9	616.5	0.4945 mg/L	0.4945 mg/L	19:07:41
2	Ba 233.527†	91088.5	88784.0	0.4859 mg/L	0.4859 mg/L	19:07:21
2	Be 313.107†	331628.1	317566.0	0.0501 mg/L	0.0501 mg/L	19:07:15
2	Ca 315.886†	769225.1	745698.9	5.001 mg/L	5.001 mg/L	19:07:15
2	Cd 228.802†	21697.6	20719.5	0.2460 mg/L	0.2460 mg/L	19:07:21
2	Co 228.616†	35588.4	35027.4	0.4886 mg/L	0.4886 mg/L	19:07:21
2	Cr 267.716†	79242.6	75312.8	0.4950 mg/L	0.4950 mg/L	19:07:21
2	Cu 324.752†	94186.2	90317.0	0.4894 mg/L	0.4894 mg/L	19:07:21
2	Fe 238.204†	325104.2	315407.0	2.489 mg/L	2.489 mg/L	19:07:21
2	Fe 234.349†	105437.6	102362.1	2.477 mg/L	2.477 mg/L	19:07:21
2	Mg 279.077†	109475.9	106606.5	4.840 mg/L	4.840 mg/L	19:07:21
2	Mn 257.610†	515354.2	500683.6	0.4987 mg/L	0.4987 mg/L	19:07:15
2	Mo 202.031†	6756.3	6562.0	0.4969 mg/L	0.4969 mg/L	19:07:41
2	Na 330.237†	12367.6	10894.7	23.54 mg/L	23.54 mg/L	19:07:21
2	Ni 231.604†	29611.9	28453.2	0.4974 mg/L	0.4974 mg/L	19:07:21
2	Pb 220.353†	4469.0	4453.1	0.4915 mg/L	0.4915 mg/L	19:07:41
2	Sb 206.836†	1915.8	1783.5	0.4798 mg/L	0.4798 mg/L	19:07:41
2	Se 196.026†	725.5	708.8	0.9960 mg/L	0.9960 mg/L	19:07:41
2	Sn 189.927†	1706.4	1587.0	0.5040 mg/L	0.5040 mg/L	19:07:41
2	Ti 337.279†	352248.1	341783.8	0.4354 mg/L	0.4354 mg/L	19:07:15
2	Tl 190.801†	616.4	611.4	0.5075 mg/L	0.5075 mg/L	19:07:41
2	V 292.402†	126738.6	120906.9	0.4923 mg/L	0.4923 mg/L	19:07:21
2	Zn 213.857†	48341.7	46192.9	0.4909 mg/L	0.4909 mg/L	19:07:21

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 Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2383188.5				15010.66	0.63%
Ag 328.068†	84039.6	0.2472 mg/L	0.00015	0.2472 mg/L	0.00015	0.06%
QC value within limits for Ag 328.068 Recovery = 98.89%						
Al 237.313†	22026.4	2.417 mg/L	0.0032	2.417 mg/L	0.0032	0.13%
QC value within limits for Al 237.313 Recovery = 96.67%						
As 188.979†	584.9	0.4884 mg/L	0.00462	0.4884 mg/L	0.00462	0.95%
QC value within limits for As 188.979 Recovery = 97.68%						
B 182.528†	616.9	0.4948 mg/L	0.00042	0.4948 mg/L	0.00042	0.08%

Element	QC value	within limits	Recovery	Concentration (mg/L)	Recovery (%)
Ba	233.527†	88784.0	0.4859 mg/L	0.00000	0.00%
Be	313.107†	318018.6	0.0502 mg/L	0.00010	0.20%
Ca	315.886†	746622.2	5.007 mg/L	0.0088	0.18%
Cd	228.802†	20707.6	0.2458 mg/L	0.00019	0.08%
Co	228.616†	35083.8	0.4894 mg/L	0.00111	0.23%
Cr	267.716†	75348.9	0.4952 mg/L	0.00034	0.07%
Cu	324.752†	89997.7	0.4877 mg/L	0.00243	0.50%
Fe	238.204†	315524.3	2.490 mg/L	0.0013	0.05%
Fe	234.349†	102439.5	2.479 mg/L	0.0026	0.11%
Mg	279.077†	106721.7	4.845 mg/L	0.0074	0.15%
Mn	257.610†	501294.4	0.4993 mg/L	0.00086	0.17%
Mo	202.031†	6558.4	0.4966 mg/L	0.00038	0.08%
Na	330.237†	10893.9	23.54 mg/L	0.003	0.01%
Ni	231.604†	28465.3	0.4976 mg/L	0.00030	0.06%
Pb	220.353†	4456.4	0.4918 mg/L	0.00051	0.10%
Sb	206.836†	1776.6	0.4779 mg/L	0.00266	0.56%
Se	196.026†	709.8	0.9974 mg/L	0.00199	0.20%
Sn	189.927†	1586.9	0.5040 mg/L	0.00002	0.00%
Ti	337.279†	342836.5	0.4367 mg/L	0.00189	0.43%
Tl	190.801†	605.8	0.5028 mg/L	0.00657	1.31%
V	292.402†	120871.7	0.4922 mg/L	0.00020	0.04%
Zn	213.857†	46154.5	0.4904 mg/L	0.00058	0.12%

QC Failed. Continue with analysis.

Sequence No.: 7  
 Sample ID: ICCB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 1  
 Date Collected: 6/23/2006 7:09:19 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2343806.9	2343806.9			19:10:50
1	Ag 328.068†	-640.4	-30.2	0.0007 mg/L	0.0007 mg/L	19:10:56
1	Al 237.313†	-332.7	-21.1	0.0045 mg/L	0.0045 mg/L	19:11:16
1	As 188.979†	-1.3	1.4	-0.0012 mg/L	-0.0012 mg/L	19:11:16
1	B 182.528†	-21.3	10.6	0.0078 mg/L	0.0078 mg/L	19:11:16
1	Ba 233.527†	-124.8	15.7	0.0000 mg/L	0.0000 mg/L	19:11:16
1	Be 313.107†	5334.5	138.8	0.0000 mg/L	0.0000 mg/L	19:10:56
1	Ca 315.886†	2994.2	91.0	-0.0068 mg/L	-0.0068 mg/L	19:10:56
1	Cd 228.802†	384.5	-13.7	0.0005 mg/L	0.0005 mg/L	19:11:16
1	Co 228.616†	-385.3	11.0	-0.0008 mg/L	-0.0008 mg/L	19:11:16
1	Cr 267.716†	1806.6	-7.8	-0.0006 mg/L	-0.0006 mg/L	19:10:56
1	Cu 324.752†	1481.5	130.8	0.0034 mg/L	0.0034 mg/L	19:10:56
1	Fe 238.204†	970.8	-8.5	-0.0011 mg/L	-0.0011 mg/L	19:11:16

1	Fe 234.349†	236.7	-11.0	0.0006 mg/L	0.0006 mg/L	19:11:16
1	Mg 279.077†	-22.1	46.3	0.0083 mg/L	0.0083 mg/L	19:10:56
1	Mn 257.610†	964.7	117.1	-0.0012 mg/L	-0.0012 mg/L	19:10:56
1	Mo 202.031†	41.4	28.1	0.0012 mg/L	0.0012 mg/L	19:11:16
1	Na 330.237†	1178.0	29.9	0.6807 mg/L	0.6807 mg/L	19:10:56
1	Ni 231.604†	396.8	30.3	-0.0004 mg/L	-0.0004 mg/L	19:11:16
1	Pb 220.353†	-127.1	-22.3	-0.0021 mg/L	-0.0021 mg/L	19:11:16
1	Sb 206.836†	88.9	7.5	0.0026 mg/L	0.0026 mg/L	19:11:16
1	Se 196.026†	4.0	6.8	0.0116 mg/L	0.0116 mg/L	19:11:16
1	Sn 189.927†	67.5	-6.5	-0.0035 mg/L	-0.0035 mg/L	19:11:16
1	Ti 337.279†	1210.9	191.4	0.0007 mg/L	0.0007 mg/L	19:10:56
1	Tl 190.801†	8.1	19.6	0.0183 mg/L	0.0183 mg/L	19:11:16
1	V 292.402†	2450.4	4.8	0.0007 mg/L	0.0007 mg/L	19:10:56
1	Zn 213.857†	911.5	54.4	0.0008 mg/L	0.0008 mg/L	19:11:16
2	Y 360.073	2333903.7	2333903.7			19:11:22
2	Ag 328.068†	-550.1	57.2	0.0009 mg/L	0.0009 mg/L	19:11:27
2	Al 237.313†	-303.3	6.8	0.0076 mg/L	0.0076 mg/L	19:11:47
2	As 188.979†	6.3	9.0	0.0051 mg/L	0.0051 mg/L	19:11:47
2	B 182.528†	-23.4	8.4	0.0061 mg/L	0.0061 mg/L	19:11:47
2	Ba 233.527†	-127.0	13.0	0.0000 mg/L	0.0000 mg/L	19:11:47
2	Be 313.107†	5172.7	-0.2	0.0000 mg/L	0.0000 mg/L	19:11:27
2	Ca 315.886†	2965.9	75.4	-0.0069 mg/L	-0.0069 mg/L	19:11:27
2	Cd 228.802†	395.9	-0.6	0.0006 mg/L	0.0006 mg/L	19:11:47
2	Co 228.616†	-394.7	0.1	-0.0010 mg/L	-0.0010 mg/L	19:11:47
2	Cr 267.716†	1858.0	51.1	-0.0002 mg/L	-0.0002 mg/L	19:11:27
2	Cu 324.752†	1495.3	150.8	0.0035 mg/L	0.0035 mg/L	19:11:27
2	Fe 238.204†	941.3	-33.8	-0.0013 mg/L	-0.0013 mg/L	19:11:47
2	Fe 234.349†	233.6	-13.1	0.0006 mg/L	0.0006 mg/L	19:11:47
2	Mg 279.077†	31.2	99.4	0.0107 mg/L	0.0107 mg/L	19:11:27
2	Mn 257.610†	969.0	125.4	-0.0012 mg/L	-0.0012 mg/L	19:11:27
2	Mo 202.031†	39.8	26.7	0.0011 mg/L	0.0011 mg/L	19:11:47
2	Na 330.237†	1137.6	-5.5	0.6063 mg/L	0.6063 mg/L	19:11:27
2	Ni 231.604†	368.7	3.9	-0.0008 mg/L	-0.0008 mg/L	19:11:47
2	Pb 220.353†	-112.9	-8.6	-0.0006 mg/L	-0.0006 mg/L	19:11:47
2	Sb 206.836†	83.3	2.2	0.0012 mg/L	0.0012 mg/L	19:11:47
2	Se 196.026†	-4.6	-1.8	-0.0004 mg/L	-0.0004 mg/L	19:11:47
2	Sn 189.927†	67.8	-5.9	-0.0033 mg/L	-0.0033 mg/L	19:11:47
2	Ti 337.279†	1195.1	180.7	0.0007 mg/L	0.0007 mg/L	19:11:27
2	Tl 190.801†	2.5	14.0	0.0138 mg/L	0.0138 mg/L	19:11:47
2	V 292.402†	2439.8	4.5	0.0007 mg/L	0.0007 mg/L	19:11:27
2	Zn 213.857†	885.0	31.8	0.0005 mg/L	0.0005 mg/L	19:11:47

## Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2338855.3				7002.66	0.30%
Ag 328.068†	13.5	0.0008 mg/L	0.00018	0.0008 mg/L	0.00018	22.90%
QC value within limits for Ag 328.068		Recovery =	Not calculated			
Al 237.313†	-7.2	0.0061 mg/L	0.00218	0.0061 mg/L	0.00218	35.97%
QC value within limits for Al 237.313		Recovery =	Not calculated			
As 188.979†	5.2	0.0019 mg/L	0.00450	0.0019 mg/L	0.00450	232.43%
QC value within limits for As 188.979		Recovery =	Not calculated			
B 182.528†	9.5	0.0069 mg/L	0.00122	0.0069 mg/L	0.00122	17.66%
QC value within limits for B 182.528		Recovery =	Not calculated			
Ba 233.527†	14.3	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	289.93%
QC value within limits for Ba 233.527		Recovery =	Not calculated			
Be 313.107†	69.3	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	256.84%
QC value within limits for Be 313.107		Recovery =	Not calculated			
Ca 315.886†	83.2	-0.0069 mg/L	0.00007	-0.0069 mg/L	0.00007	1.08%
QC value within limits for Ca 315.886		Recovery =	Not calculated			
Cd 228.802†	-7.1	0.0005 mg/L	0.00010	0.0005 mg/L	0.00010	17.83%
QC value within limits for Cd 228.802		Recovery =	Not calculated			
Co 228.616†	5.6	-0.0009 mg/L	0.00011	-0.0009 mg/L	0.00011	11.85%
QC value within limits for Co 228.616		Recovery =	Not calculated			
Cr 267.716†	21.7	-0.0004 mg/L	0.00027	-0.0004 mg/L	0.00027	66.70%
QC value within limits for Cr 267.716		Recovery =	Not calculated			
Cu 324.752†	140.8	0.0034 mg/L	0.00008	0.0034 mg/L	0.00008	2.22%
QC value within limits for Cu 324.752		Recovery =	Not calculated			
Fe 238.204†	-21.2	-0.0012 mg/L	0.00014	-0.0012 mg/L	0.00014	11.48%
QC value within limits for Fe 238.204		Recovery =	Not calculated			

Fe 234.349†	-12.1	0.0006 mg/L	0.00003	0.0006 mg/L	0.00003	5.75%
QC value within limits for Fe 234.349 Recovery = Not calculated						
Mg 279.077†	72.9	0.0095 mg/L	0.00171	0.0095 mg/L	0.00171	18.02%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	121.2	-0.0012 mg/L	0.00001	-0.0012 mg/L	0.00001	0.48%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	27.4	0.0011 mg/L	0.00007	0.0011 mg/L	0.00007	6.49%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 330.237†	12.2	0.6435 mg/L	0.05264	0.6435 mg/L	0.05264	8.18%
QC value within limits for Na 330.237 Recovery = Not calculated						
Ni 231.604†	17.1	-0.0006 mg/L	0.00033	-0.0006 mg/L	0.00033	55.28%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-15.5	-0.0013 mg/L	0.00106	-0.0013 mg/L	0.00106	79.01%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	4.8	0.0019 mg/L	0.00102	0.0019 mg/L	0.00102	54.12%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	2.5	0.0056 mg/L	0.00853	0.0056 mg/L	0.00853	152.13%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-6.2	-0.0034 mg/L	0.00013	-0.0034 mg/L	0.00013	3.83%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	186.0	0.0007 mg/L	0.00001	0.0007 mg/L	0.00001	1.41%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	16.8	0.0161 mg/L	0.00325	0.0161 mg/L	0.00325	20.24%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	4.6	0.0007 mg/L	0.00000	0.0007 mg/L	0.00000	0.17%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	43.1	0.0007 mg/L	0.00017	0.0007 mg/L	0.00017	25.72%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 8  
 Sample ID: CRI1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 6  
 Date Collected: 6/23/2006 7:13:23 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: CRI1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2366005.7	2366005.7			19:14:57
1	Ag 328.068†	8068.9	8550.9	0.0258 mg/L	0.0258 mg/L	19:15:02
1	Al 237.313†	1970.8	2250.0	0.2530 mg/L	0.2530 mg/L	19:15:22
1	As 188.979†	59.3	61.1	0.0489 mg/L	0.0489 mg/L	19:15:22
1	B 182.528†	32.8	64.1	0.0508 mg/L	0.0508 mg/L	19:15:22
1	Ba 233.527†	9396.1	9391.1	0.0513 mg/L	0.0513 mg/L	19:15:02
1	Be 313.107†	37854.7	32108.4	0.0051 mg/L	0.0051 mg/L	19:14:57
1	Ca 315.886†	79182.8	75078.3	0.4968 mg/L	0.4968 mg/L	19:15:02
1	Cd 228.802†	2458.7	2025.0	0.0246 mg/L	0.0246 mg/L	19:15:22
1	Co 228.616†	3245.5	3589.5	0.0492 mg/L	0.0492 mg/L	19:15:22
1	Cr 267.716†	9667.9	7715.6	0.0502 mg/L	0.0502 mg/L	19:15:02
1	Cu 324.752†	10773.7	9266.0	0.0526 mg/L	0.0526 mg/L	19:15:02
1	Fe 238.204†	33981.1	32484.3	0.2554 mg/L	0.2554 mg/L	19:15:02
1	Fe 234.349†	10942.5	10527.7	0.2556 mg/L	0.2556 mg/L	19:15:02
1	Mg 279.077†	11262.0	11156.8	0.5120 mg/L	0.5120 mg/L	19:15:02
1	Mn 257.610†	53302.0	51639.4	0.0502 mg/L	0.0502 mg/L	19:15:02
1	Mo 202.031†	714.3	690.2	0.0514 mg/L	0.0514 mg/L	19:15:22
1	Na 330.237†	2185.0	1010.4	2.744 mg/L	2.744 mg/L	19:15:02
1	Ni 231.604†	3324.6	2909.2	0.0501 mg/L	0.0501 mg/L	19:15:02
1	Pb 220.353†	342.7	441.4	0.0491 mg/L	0.0491 mg/L	19:15:22
1	Sb 206.836†	264.8	179.8	0.0489 mg/L	0.0489 mg/L	19:15:22
1	Se 196.026†	64.6	66.4	0.0952 mg/L	0.0952 mg/L	19:15:22
1	Sn 189.927†	222.5	145.4	0.0449 mg/L	0.0449 mg/L	19:15:22
1	Ti 337.279†	40961.7	39318.6	0.0505 mg/L	0.0505 mg/L	19:15:02
1	Tl 190.801†	58.9	69.6	0.0597 mg/L	0.0597 mg/L	19:15:22
1	V 292.402†	15092.8	12429.6	0.0512 mg/L	0.0512 mg/L	19:15:02
1	Zn 213.857†	5701.3	4761.9	0.0508 mg/L	0.0508 mg/L	19:15:02
2	Y 360.073	2361511.6	2361511.6			19:15:28
2	Ag 328.068†	8064.2	8561.4	0.0259 mg/L	0.0259 mg/L	19:15:34
2	Al 237.313†	1978.6	2261.4	0.2543 mg/L	0.2543 mg/L	19:15:54



2	As 188.979†	64.6	66.4	0.0533 mg/L	0.0533 mg/L	19:15:54
2	B 182.528†	36.1	67.3	0.0534 mg/L	0.0534 mg/L	19:15:54
2	Ba 233.527†	9349.2	9362.5	0.0512 mg/L	0.0512 mg/L	19:15:34
2	Be 313.107†	37785.1	32110.7	0.0051 mg/L	0.0051 mg/L	19:15:28
2	Ca 315.886†	78689.1	74739.7	0.4945 mg/L	0.4945 mg/L	19:15:34
2	Cd 228.802†	2451.2	2022.2	0.0246 mg/L	0.0246 mg/L	19:15:54
2	Co 228.616†	3247.4	3597.5	0.0493 mg/L	0.0493 mg/L	19:15:54
2	Cr 267.716†	9622.9	7689.3	0.0500 mg/L	0.0500 mg/L	19:15:34
2	Cu 324.752†	10701.3	9214.8	0.0523 mg/L	0.0523 mg/L	19:15:34
2	Fe 238.204†	33820.9	32390.0	0.2546 mg/L	0.2546 mg/L	19:15:34
2	Fe 234.349†	10848.9	10455.9	0.2538 mg/L	0.2538 mg/L	19:15:34
2	Mg 279.077†	11313.7	11228.9	0.5153 mg/L	0.5153 mg/L	19:15:34
2	Mn 257.610†	52895.3	51338.0	0.0499 mg/L	0.0499 mg/L	19:15:34
2	Mo 202.031†	706.3	683.8	0.0509 mg/L	0.0509 mg/L	19:15:54
2	Na 330.237†	2173.9	1003.5	2.729 mg/L	2.729 mg/L	19:15:34
2	Ni 231.604†	3276.2	2867.7	0.0493 mg/L	0.0493 mg/L	19:15:34
2	Pb 220.353†	355.3	454.5	0.0505 mg/L	0.0505 mg/L	19:15:54
2	Sb 206.836†	265.1	180.6	0.0491 mg/L	0.0491 mg/L	19:15:54
2	Se 196.026†	68.8	70.6	0.1012 mg/L	0.1012 mg/L	19:15:54
2	Sn 189.927†	216.1	139.6	0.0431 mg/L	0.0431 mg/L	19:15:54
2	Ti 337.279†	40557.7	38996.9	0.0501 mg/L	0.0501 mg/L	19:15:34
2	Tl 190.801†	55.3	66.1	0.0568 mg/L	0.0568 mg/L	19:15:54
2	V 292.402†	14974.9	12341.6	0.0509 mg/L	0.0509 mg/L	19:15:34
2	Zn 213.857†	5670.0	4741.8	0.0506 mg/L	0.0506 mg/L	19:15:34

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Mean Data: CRI1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2363758.7				3177.84	0.13%
Ag 328.068†	8556.1	0.0258 mg/L	0.00002	0.0258 mg/L	0.00002	0.08%
QC value within limits for Ag 328.068		Recovery = 103.39%				
Al 237.313†	2255.7	0.2536 mg/L	0.00090	0.2536 mg/L	0.00090	0.35%
QC value within limits for Al 237.313		Recovery = 101.45%				
As 188.979†	63.8	0.0511 mg/L	0.00313	0.0511 mg/L	0.00313	6.13%
QC value within limits for As 188.979		Recovery = 102.26%				
B 182.528†	65.7	0.0521 mg/L	0.00186	0.0521 mg/L	0.00186	3.58%
QC value within limits for B 182.528		Recovery = 104.16%				
Ba 233.527†	9376.8	0.0513 mg/L	0.00011	0.0513 mg/L	0.00011	0.22%
QC value within limits for Ba 233.527		Recovery = 102.50%				
Be 313.107†	32109.6	0.0051 mg/L	0.00000	0.0051 mg/L	0.00000	0.01%
QC value within limits for Be 313.107		Recovery = 101.02%				
Ca 315.886†	74909.0	0.4957 mg/L	0.00161	0.4957 mg/L	0.00161	0.32%
QC value within limits for Ca 315.886		Recovery = 99.14%				
Cd 228.802†	2023.6	0.0246 mg/L	0.00003	0.0246 mg/L	0.00003	0.13%
QC value within limits for Cd 228.802		Recovery = 98.32%				
Co 228.616†	3593.5	0.0492 mg/L	0.00008	0.0492 mg/L	0.00008	0.16%
QC value within limits for Co 228.616		Recovery = 98.44%				
Cr 267.716†	7702.5	0.0501 mg/L	0.00012	0.0501 mg/L	0.00012	0.24%
QC value within limits for Cr 267.716		Recovery = 100.26%				
Cu 324.752†	9240.4	0.0525 mg/L	0.00019	0.0525 mg/L	0.00019	0.37%
QC value within limits for Cu 324.752		Recovery = 104.97%				
Fe 238.204†	32437.2	0.2550 mg/L	0.00053	0.2550 mg/L	0.00053	0.21%
QC value within limits for Fe 238.204		Recovery = 102.01%				
Fe 234.349†	10491.8	0.2547 mg/L	0.00123	0.2547 mg/L	0.00123	0.48%
QC value within limits for Fe 234.349		Recovery = 101.88%				
Mg 279.077†	11192.9	0.5137 mg/L	0.00232	0.5137 mg/L	0.00232	0.45%
QC value within limits for Mg 279.077		Recovery = 102.73%				
Mn 257.610†	51488.7	0.0501 mg/L	0.00021	0.0501 mg/L	0.00021	0.43%
QC value within limits for Mn 257.610		Recovery = 100.13%				
Mo 202.031†	687.0	0.0512 mg/L	0.00035	0.0512 mg/L	0.00035	0.68%
QC value within limits for Mo 202.031		Recovery = 102.32%				
Na 330.237†	1006.9	2.736 mg/L	0.0103	2.736 mg/L	0.0103	0.38%
QC value within limits for Na 330.237		Recovery = 109.45%				
Ni 231.604†	2888.5	0.0497 mg/L	0.00051	0.0497 mg/L	0.00051	1.03%
QC value within limits for Ni 231.604		Recovery = 99.38%				
Pb 220.353†	448.0	0.0498 mg/L	0.00101	0.0498 mg/L	0.00101	2.03%
QC value within limits for Pb 220.353		Recovery = 99.53%				
Sb 206.836†	180.2	0.0490 mg/L	0.00015	0.0490 mg/L	0.00015	0.32%
QC value within limits for Sb 206.836		Recovery = 97.96%				
Se 196.026†	68.5	0.0982 mg/L	0.00421	0.0982 mg/L	0.00421	4.29%

QC value within limits for Se 196.026 Recovery = 98.19%  
 Sn 189.927† 142.5 0.0440 mg/L 0.00132 0.0440 mg/L 0.00132 2.99%  
 QC value within limits for Sn 189.927 Recovery = 88.01%  
 Ti 337.279† 39157.7 0.0503 mg/L 0.00029 0.0503 mg/L 0.00029 0.58%  
 QC value within limits for Ti 337.279 Recovery = 100.55%  
 Tl 190.801† 67.8 0.0582 mg/L 0.00203 0.0582 mg/L 0.00203 3.48%  
 QC value within limits for Tl 190.801 Recovery = 116.45%  
 V 292.402† 12385.6 0.0510 mg/L 0.00025 0.0510 mg/L 0.00025 0.49%  
 QC value within limits for V 292.402 Recovery = 102.06%  
 Zn 213.857† 4751.9 0.0507 mg/L 0.00015 0.0507 mg/L 0.00015 0.29%  
 QC value within limits for Zn 213.857 Recovery = 101.36%  
 All analyte(s) passed QC.

Sequence No.: 9  
 Sample ID: CRI2  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 7  
 Date Collected: 6/23/2006 7:17:32 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: CRI2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2372541.7	2372541.7			19:19:07
1	Ag 328.068†	2765.7	3321.8	0.0105 mg/L	0.0105 mg/L	19:19:12
1	Al 237.313†	593.5	892.3	0.1045 mg/L	0.1045 mg/L	19:19:32
1	As 188.979†	24.2	26.4	0.0198 mg/L	0.0198 mg/L	19:19:32
1	B 182.528†	-2.3	29.6	0.0231 mg/L	0.0231 mg/L	19:19:32
1	Ba 233.527†	3548.5	3623.9	0.0198 mg/L	0.0198 mg/L	19:19:32
1	Be 313.107†	18150.8	12658.7	0.0020 mg/L	0.0020 mg/L	19:19:07
1	Ca 315.886†	32982.8	29500.4	0.1907 mg/L	0.1907 mg/L	19:19:12
1	Cd 228.802†	1223.5	805.5	0.0102 mg/L	0.0102 mg/L	19:19:32
1	Co 228.616†	1019.6	1395.2	0.0185 mg/L	0.0185 mg/L	19:19:32
1	Cr 267.716†	4879.3	2987.5	0.0191 mg/L	0.0191 mg/L	19:19:12
1	Cu 324.752†	4982.1	3550.1	0.0218 mg/L	0.0218 mg/L	19:19:12
1	Fe 238.204†	14177.1	12946.9	0.1011 mg/L	0.1011 mg/L	19:19:12
1	Fe 234.349†	4459.5	4132.5	0.1009 mg/L	0.1009 mg/L	19:19:12
1	Mg 279.077†	4410.2	4398.6	0.2056 mg/L	0.2056 mg/L	19:19:12
1	Mn 257.610†	21534.7	20302.8	0.0189 mg/L	0.0189 mg/L	19:19:12
1	Mo 202.031†	302.6	284.1	0.0206 mg/L	0.0206 mg/L	19:19:32
1	Na 330.237†	1500.6	332.4	1.317 mg/L	1.317 mg/L	19:19:12
1	Ni 231.604†	1499.0	1107.7	0.0185 mg/L	0.0185 mg/L	19:19:32
1	Pb 220.353†	73.4	176.0	0.0198 mg/L	0.0198 mg/L	19:19:32
1	Sb 206.836†	153.7	70.0	0.0194 mg/L	0.0194 mg/L	19:19:32
1	Se 196.026†	21.0	23.4	0.0350 mg/L	0.0350 mg/L	19:19:32
1	Sn 189.927†	113.7	38.1	0.0107 mg/L	0.0107 mg/L	19:19:32
1	Ti 337.279†	16747.8	15432.2	0.0201 mg/L	0.0201 mg/L	19:19:12
1	Tl 190.801†	24.6	35.7	0.0316 mg/L	0.0316 mg/L	19:19:32
1	V 292.402†	7417.8	4852.6	0.0204 mg/L	0.0204 mg/L	19:19:12
1	Zn 213.857†	2756.5	1855.0	0.0199 mg/L	0.0199 mg/L	19:19:32
2	Y 360.073	2365776.2	2365776.2			19:19:38
2	Ag 328.068†	2729.6	3294.1	0.0104 mg/L	0.0104 mg/L	19:19:43
2	Al 237.313†	609.2	909.4	0.1064 mg/L	0.1064 mg/L	19:20:04
2	As 188.979†	27.2	29.5	0.0223 mg/L	0.0223 mg/L	19:20:04
2	B 182.528†	-4.6	27.2	0.0212 mg/L	0.0212 mg/L	19:20:04
2	Ba 233.527†	3546.0	3631.5	0.0198 mg/L	0.0198 mg/L	19:20:04
2	Be 313.107†	18107.0	12666.5	0.0020 mg/L	0.0020 mg/L	19:19:38
2	Ca 315.886†	33099.1	29707.5	0.1921 mg/L	0.1921 mg/L	19:19:43
2	Cd 228.802†	1201.7	787.5	0.0099 mg/L	0.0099 mg/L	19:20:04
2	Co 228.616†	1043.5	1421.5	0.0189 mg/L	0.0189 mg/L	19:20:04
2	Cr 267.716†	4901.5	3023.1	0.0193 mg/L	0.0193 mg/L	19:19:43
2	Cu 324.752†	5010.3	3591.9	0.0220 mg/L	0.0220 mg/L	19:19:43
2	Fe 238.204†	14119.0	12929.4	0.1010 mg/L	0.1010 mg/L	19:19:43
2	Fe 234.349†	4459.3	4144.8	0.1012 mg/L	0.1012 mg/L	19:19:43
2	Mg 279.077†	4420.0	4420.6	0.2066 mg/L	0.2066 mg/L	19:19:43
2	Mn 257.610†	21615.7	20443.1	0.0191 mg/L	0.0191 mg/L	19:19:43
2	Mo 202.031†	300.4	282.8	0.0205 mg/L	0.0205 mg/L	19:20:04
2	Na 330.237†	1540.7	376.1	1.409 mg/L	1.409 mg/L	19:19:43
2	Ni 231.604†	1519.6	1132.2	0.0189 mg/L	0.0189 mg/L	19:20:04
2	Pb 220.353†	52.4	155.6	0.0175 mg/L	0.0175 mg/L	19:20:04

2	Sb 206.836†	150.1	66.9	0.0185 mg/L	0.0185 mg/L	19:20:04
2	Se 196.026†	24.2	26.6	0.0394 mg/L	0.0394 mg/L	19:20:04
2	Sn 189.927†	110.7	35.4	0.0099 mg/L	0.0099 mg/L	19:20:04
2	Ti 337.279†	16774.4	15505.5	0.0202 mg/L	0.0202 mg/L	19:19:43
2	Tl 190.801†	22.4	33.6	0.0299 mg/L	0.0299 mg/L	19:20:04
2	V 292.402†	7364.1	4820.7	0.0203 mg/L	0.0203 mg/L	19:19:43
2	Zn 213.857†	2750.4	1856.7	0.0199 mg/L	0.0199 mg/L	19:20:04

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 Mean Data: CRI2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2369158.9				4783.99	0.20%
Ag 328.068†	3308.0	0.0105 mg/L	0.00006	0.0105 mg/L	0.00006	0.55%
QC value within limits for Ag	328.068	Recovery = 104.54%				
Al 237.313†	900.8	0.1054 mg/L	0.00133	0.1054 mg/L	0.00133	1.27%
QC value within limits for Al	237.313	Recovery = 105.41%				
As 188.979†	28.0	0.0211 mg/L	0.00181	0.0211 mg/L	0.00181	8.59%
QC value within limits for As	188.979	Recovery = 105.31%				
B 182.528†	28.4	0.0221 mg/L	0.00132	0.0221 mg/L	0.00132	5.96%
QC value within limits for B	182.528	Recovery = 110.60%				
Ba 233.527†	3627.7	0.0198 mg/L	0.00003	0.0198 mg/L	0.00003	0.15%
QC value within limits for Ba	233.527	Recovery = 98.89%				
Be 313.107†	12662.6	0.0020 mg/L	0.00000	0.0020 mg/L	0.00000	0.04%
QC value within limits for Be	313.107	Recovery = 99.08%				
Ca 315.886†	29603.9	0.1914 mg/L	0.00098	0.1914 mg/L	0.00098	0.51%
QC value within limits for Ca	315.886	Recovery = 95.70%				
Cd 228.802†	796.5	0.0101 mg/L	0.00016	0.0101 mg/L	0.00016	1.57%
QC value within limits for Cd	228.802	Recovery = 100.57%				
Co 228.616†	1408.3	0.0187 mg/L	0.00026	0.0187 mg/L	0.00026	1.40%
QC value within limits for Co	228.616	Recovery = 93.44%				
Cr 267.716†	3005.3	0.0192 mg/L	0.00017	0.0192 mg/L	0.00017	0.86%
QC value within limits for Cr	267.716	Recovery = 96.11%				
Cu 324.752†	3571.0	0.0219 mg/L	0.00016	0.0219 mg/L	0.00016	0.73%
QC value within limits for Cu	324.752	Recovery = 109.65%				
Fe 238.204†	12938.2	0.1011 mg/L	0.00010	0.1011 mg/L	0.00010	0.10%
QC value within limits for Fe	238.204	Recovery = 101.08%				
Fe 234.349†	4138.6	0.1010 mg/L	0.00021	0.1010 mg/L	0.00021	0.21%
QC value within limits for Fe	234.349	Recovery = 101.00%				
Mg 279.077†	4409.6	0.2061 mg/L	0.00071	0.2061 mg/L	0.00071	0.34%
QC value within limits for Mg	279.077	Recovery = 103.05%				
Mn 257.610†	20373.0	0.0190 mg/L	0.00010	0.0190 mg/L	0.00010	0.52%
QC value within limits for Mn	257.610	Recovery = 94.95%				
Mo 202.031†	283.5	0.0205 mg/L	0.00007	0.0205 mg/L	0.00007	0.35%
QC value within limits for Mo	202.031	Recovery = 102.72%				
Na 330.237†	354.3	1.363 mg/L	0.0650	1.363 mg/L	0.0650	4.77%
QC value greater than the upper limit for Na	330.237	Recovery = 136.32%				
Ni 231.604†	1119.9	0.0187 mg/L	0.00030	0.0187 mg/L	0.00030	1.62%
QC value within limits for Ni	231.604	Recovery = 93.61%				
Pb 220.353†	165.8	0.0187 mg/L	0.00159	0.0187 mg/L	0.00159	8.51%
QC value within limits for Pb	220.353	Recovery = 93.25%				
Sb 206.836†	68.4	0.0189 mg/L	0.00060	0.0189 mg/L	0.00060	3.15%
QC value within limits for Sb	206.836	Recovery = 94.74%				
Se 196.026†	25.0	0.0372 mg/L	0.00311	0.0372 mg/L	0.00311	8.37%
QC value within limits for Se	196.026	Recovery = 93.00%				
Sn 189.927†	36.8	0.0103 mg/L	0.00060	0.0103 mg/L	0.00060	5.79%
QC value less than the lower limit for Sn	189.927	Recovery = 51.57%				
Ti 337.279†	15468.9	0.0201 mg/L	0.00007	0.0201 mg/L	0.00007	0.33%
QC value within limits for Ti	337.279	Recovery = 100.65%				
Tl 190.801†	34.6	0.0308 mg/L	0.00121	0.0308 mg/L	0.00121	3.92%
QC value greater than the upper limit for Tl	190.801	Recovery = 153.91%				
V 292.402†	4836.6	0.0203 mg/L	0.00009	0.0203 mg/L	0.00009	0.44%
QC value within limits for V	292.402	Recovery = 101.70%				
Zn 213.857†	1855.9	0.0199 mg/L	0.00001	0.0199 mg/L	0.00001	0.06%
QC value within limits for Zn	213.857	Recovery = 99.57%				

QC Failed. Continue with analysis.

Sequence No.: 10  
 Sample ID: CRI3  
 Analyst:

Autosampler Location: 8  
 Date Collected: 6/23/2006 7:21:43 PM  
 Data Type: Original

Initial Sample Wt:  
Dilution:

Initial Sample Vol:  
Sample Prep Vol:

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Replicate Data: CRI3

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2372306.1	2372306.1			19:23:17
1	Ag 328.068†	1117.7	1703.8	0.0057 mg/L	0.0057 mg/L	19:23:23
1	Al 237.313†	162.7	469.3	0.0582 mg/L	0.0582 mg/L	19:23:43
1	As 188.979†	12.2	14.7	0.0099 mg/L	0.0099 mg/L	19:23:43
1	B 182.528†	-17.0	15.1	0.0115 mg/L	0.0115 mg/L	19:23:43
1	Ba 233.527†	1664.5	1774.3	0.0096 mg/L	0.0096 mg/L	19:23:43
1	Be 313.107†	11489.0	6118.7	0.0009 mg/L	0.0009 mg/L	19:23:23
1	Ca 315.886†	18066.7	14856.2	0.0923 mg/L	0.0923 mg/L	19:23:23
1	Cd 228.802†	775.1	365.3	0.0050 mg/L	0.0050 mg/L	19:23:43
1	Co 228.616†	300.9	689.5	0.0086 mg/L	0.0086 mg/L	19:23:43
1	Cr 267.716†	3286.8	1424.1	0.0088 mg/L	0.0088 mg/L	19:23:23
1	Cu 324.752†	3135.0	1736.8	0.0120 mg/L	0.0120 mg/L	19:23:23
1	Fe 238.204†	7471.8	6363.8	0.0492 mg/L	0.0492 mg/L	19:23:23
1	Fe 234.349†	2287.6	2000.1	0.0493 mg/L	0.0493 mg/L	19:23:43
1	Mg 279.077†	2204.2	2232.7	0.1074 mg/L	0.1074 mg/L	19:23:23
1	Mn 257.610†	11136.6	10094.2	0.0087 mg/L	0.0087 mg/L	19:23:23
1	Mo 202.031†	153.6	137.8	0.0095 mg/L	0.0095 mg/L	19:23:43
1	Na 330.237†	1356.4	190.9	1.020 mg/L	1.020 mg/L	19:23:23
1	Ni 231.604†	935.2	554.2	0.0088 mg/L	0.0088 mg/L	19:23:43
1	Pb 220.353†	-30.3	74.3	0.0086 mg/L	0.0086 mg/L	19:23:43
1	Sb 206.836†	114.6	31.6	0.0091 mg/L	0.0091 mg/L	19:23:43
1	Se 196.026†	10.2	12.8	0.0200 mg/L	0.0200 mg/L	19:23:43
1	Sn 189.927†	91.7	16.4	0.0038 mg/L	0.0038 mg/L	19:23:43
1	Ti 337.279†	8789.0	7618.5	0.0101 mg/L	0.0101 mg/L	19:23:23
1	Tl 190.801†	1.1	12.7	0.0126 mg/L	0.0126 mg/L	19:23:43
1	V 292.402†	4888.3	2369.5	0.0103 mg/L	0.0103 mg/L	19:23:23
1	Zn 213.857†	1812.1	927.9	0.0101 mg/L	0.0101 mg/L	19:23:43
2	Y 360.073	2394817.7	2394817.7			19:23:49
2	Ag 328.068†	1027.7	1606.0	0.0055 mg/L	0.0055 mg/L	19:23:54
2	Al 237.313†	160.1	465.3	0.0578 mg/L	0.0578 mg/L	19:24:14
2	As 188.979†	13.5	15.8	0.0108 mg/L	0.0108 mg/L	19:24:14
2	B 182.528†	-19.9	12.5	0.0093 mg/L	0.0093 mg/L	19:24:14
2	Ba 233.527†	1678.4	1772.4	0.0096 mg/L	0.0096 mg/L	19:24:14
2	Be 313.107†	11454.3	5978.9	0.0009 mg/L	0.0009 mg/L	19:23:54
2	Ca 315.886†	18079.7	14702.1	0.0913 mg/L	0.0913 mg/L	19:23:54
2	Cd 228.802†	785.9	368.7	0.0050 mg/L	0.0050 mg/L	19:24:14
2	Co 228.616†	305.5	691.2	0.0087 mg/L	0.0087 mg/L	19:24:14
2	Cr 267.716†	3390.4	1494.6	0.0093 mg/L	0.0093 mg/L	19:23:54
2	Cu 324.752†	3115.0	1688.4	0.0118 mg/L	0.0118 mg/L	19:23:54
2	Fe 238.204†	7444.9	6268.6	0.0484 mg/L	0.0484 mg/L	19:23:54
2	Fe 234.349†	2281.8	1973.4	0.0486 mg/L	0.0486 mg/L	19:24:14
2	Mg 279.077†	2170.9	2180.0	0.1050 mg/L	0.1050 mg/L	19:23:54
2	Mn 257.610†	11115.5	9970.8	0.0086 mg/L	0.0086 mg/L	19:23:54
2	Mo 202.031†	152.8	135.6	0.0093 mg/L	0.0093 mg/L	19:24:14
2	Na 330.237†	1384.9	206.2	1.052 mg/L	1.052 mg/L	19:23:54
2	Ni 231.604†	931.4	541.9	0.0086 mg/L	0.0086 mg/L	19:24:14
2	Pb 220.353†	-37.9	67.1	0.0078 mg/L	0.0078 mg/L	19:24:14
2	Sb 206.836†	122.2	37.9	0.0108 mg/L	0.0108 mg/L	19:24:14
2	Se 196.026†	13.5	15.9	0.0244 mg/L	0.0244 mg/L	19:24:14
2	Sn 189.927†	78.7	3.0	-0.0004 mg/L	-0.0004 mg/L	19:24:14
2	Ti 337.279†	8848.0	7594.7	0.0101 mg/L	0.0101 mg/L	19:23:54
2	Tl 190.801†	4.3	15.7	0.0151 mg/L	0.0151 mg/L	19:24:14
2	V 292.402†	4833.2	2270.7	0.0099 mg/L	0.0099 mg/L	19:23:54
2	Zn 213.857†	1813.4	912.4	0.0099 mg/L	0.0099 mg/L	19:24:14

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Mean Data: CRI3

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2383561.9				15918.13	0.67%
Ag 328.068†	1654.9	0.0056 mg/L	0.00020	0.0056 mg/L	0.00020	3.62%
QC value within limits for Ag 328.068 Recovery = 112.10%						
Al 237.313†	467.3	0.0580 mg/L	0.00031	0.0580 mg/L	0.00031	0.54%
QC value within limits for Al 237.313 Recovery = 116.01%						

As 188.979†	15.2	0.0104 mg/L	0.00063	0.0104 mg/L	0.00063	6.07%
QC value within limits for As 188.979 Recovery = 103.90%						
B 182.528†	13.8	0.0104 mg/L	0.00152	0.0104 mg/L	0.00152	14.62%
QC value within limits for B 182.528 Recovery = 103.82%						
Ba 233.527†	1773.4	0.0096 mg/L	0.00001	0.0096 mg/L	0.00001	0.07%
QC value within limits for Ba 233.527 Recovery = 96.26%						
Be 313.107†	6048.8	0.0009 mg/L	0.00002	0.0009 mg/L	0.00002	1.66%
QC value within limits for Be 313.107 Recovery = 93.77%						
Ca 315.886†	14779.1	0.0918 mg/L	0.00073	0.0918 mg/L	0.00073	0.80%
QC value within limits for Ca 315.886 Recovery = 91.83%						
Cd 228.802†	367.0	0.0050 mg/L	0.00003	0.0050 mg/L	0.00003	0.54%
QC value within limits for Cd 228.802 Recovery = 99.45%						
Co 228.616†	690.4	0.0087 mg/L	0.00002	0.0087 mg/L	0.00002	0.19%
QC value within limits for Co 228.616 Recovery = 86.55%						
Cr 267.716†	1459.4	0.0090 mg/L	0.00033	0.0090 mg/L	0.00033	3.62%
QC value within limits for Cr 267.716 Recovery = 90.49%						
Cu 324.752†	1712.6	0.0119 mg/L	0.00018	0.0119 mg/L	0.00018	1.55%
QC value within limits for Cu 324.752 Recovery = 119.13%						
Fe 238.204†	6316.2	0.0488 mg/L	0.00053	0.0488 mg/L	0.00053	1.09%
QC value within limits for Fe 238.204 Recovery = 97.60%						
Fe 234.349†	1986.8	0.0489 mg/L	0.00046	0.0489 mg/L	0.00046	0.93%
QC value within limits for Fe 234.349 Recovery = 97.88%						
Mg 279.077†	2206.4	0.1062 mg/L	0.00169	0.1062 mg/L	0.00169	1.59%
QC value within limits for Mg 279.077 Recovery = 106.20%						
Mn 257.610†	10032.5	0.0087 mg/L	0.00009	0.0087 mg/L	0.00009	1.01%
QC value within limits for Mn 257.610 Recovery = 86.63%						
Mo 202.031†	136.7	0.0094 mg/L	0.00011	0.0094 mg/L	0.00011	1.22%
QC value within limits for Mo 202.031 Recovery = 94.09%						
Na 330.237†	198.6	1.036 mg/L	0.0227	1.036 mg/L	0.0227	2.19%
QC value greater than the upper limit for Na 330.237 Recovery = 207.12%						
Ni 231.604†	548.0	0.0087 mg/L	0.00015	0.0087 mg/L	0.00015	1.75%
QC value within limits for Ni 231.604 Recovery = 87.07%						
Pb 220.353†	70.7	0.0082 mg/L	0.00055	0.0082 mg/L	0.00055	6.79%
QC value within limits for Pb 220.353 Recovery = 81.59%						
Sb 206.836†	34.8	0.0099 mg/L	0.00121	0.0099 mg/L	0.00121	12.23%
QC value within limits for Sb 206.836 Recovery = 99.24%						
Se 196.026†	14.3	0.0222 mg/L	0.00311	0.0222 mg/L	0.00311	13.99%
QC value within limits for Se 196.026 Recovery = 110.98%						
Sn 189.927†	9.7	0.0017 mg/L	0.00302	0.0017 mg/L	0.00302	178.55%
QC value less than the lower limit for Sn 189.927 Recovery = 16.94%						
Ti 337.279†	7606.6	0.0101 mg/L	0.00002	0.0101 mg/L	0.00002	0.21%
QC value within limits for Ti 337.279 Recovery = 101.25%						
Tl 190.801†	14.2	0.0139 mg/L	0.00178	0.0139 mg/L	0.00178	12.82%
QC value greater than the upper limit for Tl 190.801 Recovery = 138.84%						
V 292.402†	2320.1	0.0101 mg/L	0.00028	0.0101 mg/L	0.00028	2.76%
QC value within limits for V 292.402 Recovery = 101.09%						
Zn 213.857†	920.2	0.0100 mg/L	0.00012	0.0100 mg/L	0.00012	1.16%
QC value within limits for Zn 213.857 Recovery = 99.73%						

QC Failed. Continue with analysis.

Sequence No.: 11

Sample ID: ICSA

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 106

Date Collected: 6/23/2006 7:25:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2308000.3	2308000.3					19:27:42
1	Ag 328.068†	-862.4	-264.2	0.0000	mg/L	0.0000	mg/L	19:27:47
1	Al 237.313†	2177016.3	2197669.5	241.7	mg/L	241.7	mg/L	19:27:42
1	As 188.979†	6.0	8.7	0.0050	mg/L	0.0050	mg/L	19:28:08
1	B 182.528†	-8.9	22.8	0.0176	mg/L	0.0176	mg/L	19:28:08
1	Ba 233.527†	-159.8	-21.6	-0.0002	mg/L	-0.0002	mg/L	19:28:08
1	Be 313.107†	2265.6	-2876.5	-0.0002	mg/L	-0.0002	mg/L	19:27:47
1	Ca 315.886†	34440298.3	34759248.7	233.4	mg/L	233.4	mg/L	19:27:34
1	Cd 228.802†	521.2	130.3	0.0003	mg/L	0.0003	mg/L	19:28:08
1	Co 228.616†	-388.7	1.7	-0.0010	mg/L	-0.0010	mg/L	19:28:08

1	Cr 267.716†	1329.9	-461.1	0.0008 mg/L	0.0008 mg/L	19:28:08
1	Cu 324.752†	553.7	-782.9	-0.0015 mg/L	-0.0015 mg/L	19:27:47
1	Fe 238.204†	10405185.4	10501445.6	82.88 mg/L	82.88 mg/L	19:27:34
1	Fe 234.349†	3620826.6	3654416.0	88.58 mg/L	88.58 mg/L	19:27:42
1	Mg 279.077†	5198701.4	5247350.1	237.9 mg/L	237.9 mg/L	19:27:42
1	Mn 257.610†	5505.3	4714.9	0.0064 mg/L	0.0064 mg/L	19:27:47
1	Mo 202.031†	-171.1	-185.7	-0.0088 mg/L	-0.0088 mg/L	19:28:08
1	Na 330.237†	518.7	-617.5	-0.3195 mg/L	-0.3195 mg/L	19:27:47
1	Ni 231.604†	425.4	65.3	0.0003 mg/L	0.0003 mg/L	19:28:08
1	Pb 220.353†	-415.8	-315.6	-0.0180 mg/L	-0.0180 mg/L	19:28:08
1	Sb 206.836†	68.2	-12.1	-0.0027 mg/L	-0.0027 mg/L	19:28:08
1	Se 196.026†	-24.5	-21.9	-0.0286 mg/L	-0.0286 mg/L	19:28:08
1	Sn 189.927†	124.2	51.8	0.0151 mg/L	0.0151 mg/L	19:28:08
1	Ti 337.279†	5362.1	4400.0	0.0060 mg/L	0.0060 mg/L	19:27:47
1	Tl 190.801†	-13.3	-1.9	0.0006 mg/L	0.0006 mg/L	19:28:08
1	V 292.402†	2942.1	538.8	0.0028 mg/L	0.0028 mg/L	19:28:08
1	Zn 213.857†	3141.9	2319.7	0.0250 mg/L	0.0250 mg/L	19:28:08
2	Y 360.073	2315937.5	2315937.5			19:28:27
2	Ag 328.068†	-824.2	-222.8	0.0001 mg/L	0.0001 mg/L	19:28:33
2	Al 237.313†	2182909.2	2196066.3	241.5 mg/L	241.5 mg/L	19:28:27
2	As 188.979†	10.1	12.9	0.0085 mg/L	0.0085 mg/L	19:28:53
2	B 182.528†	-7.4	24.3	0.0188 mg/L	0.0188 mg/L	19:28:53
2	Ba 233.527†	-168.2	-29.5	-0.0002 mg/L	-0.0002 mg/L	19:28:53
2	Be 313.107†	2029.0	-3122.4	-0.0002 mg/L	-0.0002 mg/L	19:28:33
2	Ca 315.886†	34505309.7	34705505.2	233.1 mg/L	233.1 mg/L	19:28:20
2	Cd 228.802†	510.2	117.4	0.0002 mg/L	0.0002 mg/L	19:28:53
2	Co 228.616†	-366.2	25.6	-0.0006 mg/L	-0.0006 mg/L	19:28:53
2	Cr 267.716†	1333.1	-462.4	0.0008 mg/L	0.0008 mg/L	19:28:53
2	Cu 324.752†	588.6	-749.7	-0.0014 mg/L	-0.0014 mg/L	19:28:33
2	Fe 238.204†	10418674.9	10479020.4	82.70 mg/L	82.70 mg/L	19:28:20
2	Fe 234.349†	3629865.0	3650982.3	88.50 mg/L	88.50 mg/L	19:28:27
2	Mg 279.077†	5212297.8	5243043.0	237.7 mg/L	237.7 mg/L	19:28:27
2	Mn 257.610†	5470.7	4661.1	0.0063 mg/L	0.0063 mg/L	19:28:33
2	Mo 202.031†	-184.0	-198.1	-0.0098 mg/L	-0.0098 mg/L	19:28:53
2	Na 330.237†	484.2	-653.9	-0.3965 mg/L	-0.3965 mg/L	19:28:33
2	Ni 231.604†	423.2	61.5	0.0002 mg/L	0.0002 mg/L	19:28:53
2	Pb 220.353†	-418.5	-316.9	-0.0181 mg/L	-0.0181 mg/L	19:28:53
2	Sb 206.836†	70.6	-9.9	-0.0021 mg/L	-0.0021 mg/L	19:28:53
2	Se 196.026†	-29.7	-27.1	-0.0359 mg/L	-0.0359 mg/L	19:28:53
2	Sn 189.927†	149.3	76.6	0.0229 mg/L	0.0229 mg/L	19:28:53
2	Ti 337.279†	5346.4	4365.7	0.0060 mg/L	0.0060 mg/L	19:28:33
2	Tl 190.801†	-18.4	-7.0	-0.0036 mg/L	-0.0036 mg/L	19:28:53
2	V 292.402†	2925.1	511.5	0.0027 mg/L	0.0027 mg/L	19:28:53
2	Zn 213.857†	3170.6	2337.7	0.0252 mg/L	0.0252 mg/L	19:28:53

## Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2311968.9				5612.47	0.24%
Ag 328.068†	-243.5	0.0000 mg/L	0.00009	0.0000 mg/L	0.00009	219.53%
QC value within limits for Ag 328.068						
Al 237.313†	2196867.9	241.6 mg/L	0.12	241.6 mg/L	0.12	0.05%
QC value within limits for Al 237.313						96.65%
As 188.979†	10.8	0.0067 mg/L	0.00247	0.0067 mg/L	0.00247	36.73%
QC value within limits for As 188.979						
B 182.528†	23.5	0.0182 mg/L	0.00087	0.0182 mg/L	0.00087	4.78%
QC value within limits for B 182.528						
Ba 233.527†	-25.5	-0.0002 mg/L	0.00003	-0.0002 mg/L	0.00003	13.59%
QC value within limits for Ba 233.527						
Be 313.107†	-2999.4	-0.0002 mg/L	0.00003	-0.0002 mg/L	0.00003	12.27%
QC value within limits for Be 313.107						
Ca 315.886†	34732376.9	233.2 mg/L	0.26	233.2 mg/L	0.26	0.11%
QC value within limits for Ca 315.886						93.30%
Cd 228.802†	123.8	0.0002 mg/L	0.00011	0.0002 mg/L	0.00011	49.43%
QC value within limits for Cd 228.802						
Co 228.616†	13.7	-0.0008 mg/L	0.00024	-0.0008 mg/L	0.00024	29.24%
QC value within limits for Co 228.616						
Cr 267.716†	-461.8	0.0008 mg/L	0.00001	0.0008 mg/L	0.00001	1.08%
QC value within limits for Cr 267.716						
Cu 324.752†	-766.3	-0.0014 mg/L	0.00013	-0.0014 mg/L	0.00013	8.75%

QC value within limits for Cu 324.752	Recovery = Not calculated					
Fe 238.204†	10490233.0	82.79 mg/L	0.125	82.79 mg/L	0.125	0.15%
QC value within limits for Fe 238.204	Recovery = 82.79%					
Fe 234.349†	3652699.1	88.54 mg/L	0.059	88.54 mg/L	0.059	0.07%
QC value within limits for Fe 234.349	Recovery = 88.54%					
Mg 279.077†	5245196.6	237.8 mg/L	0.14	237.8 mg/L	0.14	0.06%
QC value within limits for Mg 279.077	Recovery = 95.12%					
Mn 257.610†	4688.0	0.0063 mg/L	0.00004	0.0063 mg/L	0.00004	0.63%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	-191.9	-0.0093 mg/L	0.00067	-0.0093 mg/L	0.00067	7.19%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 330.237†	-635.7	-0.3580 mg/L	0.05444	-0.3580 mg/L	0.05444	15.21%
QC value within limits for Na 330.237	Recovery = Not calculated					
Ni 231.604†	63.4	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	21.05%
QC value within limits for Ni 231.604	Recovery = Not calculated					
Pb 220.353†	-316.3	-0.0180 mg/L	0.00011	-0.0180 mg/L	0.00011	0.61%
QC value less than the lower limit for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	-11.0	-0.0024 mg/L	0.00042	-0.0024 mg/L	0.00042	17.63%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	-24.5	-0.0322 mg/L	0.00512	-0.0322 mg/L	0.00512	15.88%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	64.2	0.0190 mg/L	0.00557	0.0190 mg/L	0.00557	29.31%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Ti 337.279†	4382.8	0.0060 mg/L	0.00003	0.0060 mg/L	0.00003	0.51%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 190.801†	-4.4	-0.0015 mg/L	0.00296	-0.0015 mg/L	0.00296	202.85%
QC value within limits for Tl 190.801	Recovery = Not calculated					
V 292.402†	525.1	0.0028 mg/L	0.00008	0.0028 mg/L	0.00008	2.81%
QC value within limits for V 292.402	Recovery = Not calculated					
Zn 213.857†	2328.7	0.0251 mg/L	0.00014	0.0251 mg/L	0.00014	0.54%
QC value within limits for Zn 213.857	Recovery = Not calculated					
QC Failed. Continue with analysis.						

Sequence No.: 12  
 Sample ID: ICSAB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 105  
 Date Collected: 6/23/2006 7:30:31 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2297723.0	2297723.0			19:32:19
1	Ag 328.068†	162909.7	165773.8	0.4868 mg/L	0.4868 mg/L	19:32:25
1	Al 237.313†	2173969.9	2204409.2	242.5 mg/L	242.5 mg/L	19:32:19
1	As 188.979†	6.1	8.8	0.0049 mg/L	0.0049 mg/L	19:32:45
1	B 182.528†	-7.1	24.5	0.0190 mg/L	0.0190 mg/L	19:32:45
1	Ba 233.527†	40566.7	41268.7	0.2258 mg/L	0.2258 mg/L	19:32:25
1	Be 313.107†	1487811.5	1503268.3	0.2374 mg/L	0.2374 mg/L	19:32:19
1	Ca 315.886†	34302278.9	34774801.7	233.5 mg/L	233.5 mg/L	19:32:11
1	Cd 228.802†	36642.3	36754.3	0.4374 mg/L	0.4374 mg/L	19:32:25
1	Co 228.616†	14458.0	15052.4	0.2096 mg/L	0.2096 mg/L	19:32:45
1	Cr 267.716†	35822.0	34515.0	0.2309 mg/L	0.2309 mg/L	19:32:25
1	Cu 324.752†	41945.6	41185.2	0.2246 mg/L	0.2246 mg/L	19:32:25
1	Fe 238.204†	10364011.5	10506676.7	82.92 mg/L	82.92 mg/L	19:32:11
1	Fe 234.349†	3614301.3	3664147.0	88.81 mg/L	88.81 mg/L	19:32:19
1	Mg 279.077†	5186057.0	5258000.7	238.4 mg/L	238.4 mg/L	19:32:19
1	Mn 257.610†	228056.7	230375.6	0.2317 mg/L	0.2317 mg/L	19:32:25
1	Mo 202.031†	-185.5	-201.1	-0.0098 mg/L	-0.0098 mg/L	19:32:45
1	Na 330.237†	496.2	-637.9	-0.3912 mg/L	-0.3912 mg/L	19:32:25
1	Ni 231.604†	24598.3	24575.1	0.4296 mg/L	0.4296 mg/L	19:32:45
1	Pb 220.353†	3567.5	3721.0	0.4255 mg/L	0.4255 mg/L	19:32:45
1	Sb 206.836†	53.6	-26.6	-0.0094 mg/L	-0.0094 mg/L	19:32:45
1	Se 196.026†	-23.2	-20.8	-0.0270 mg/L	-0.0270 mg/L	19:32:45
1	Sn 189.927†	129.6	57.9	0.0170 mg/L	0.0170 mg/L	19:32:45
1	Ti 337.279†	5254.4	4315.0	0.0059 mg/L	0.0059 mg/L	19:32:25
1	Tl 190.801†	-12.6	-1.2	0.0006 mg/L	0.0006 mg/L	19:32:45
1	V 292.402†	58526.9	56907.2	0.2322 mg/L	0.2322 mg/L	19:32:25
1	Zn 213.857†	43766.7	43521.7	0.4625 mg/L	0.4625 mg/L	19:32:25

2	Y 360.073	2296128.7	2296128.7				19:33:06
2	Ag 328.068†	162103.3	165070.3	0.4848 mg/L	0.4848 mg/L		19:33:11
2	Al 237.313†	2171858.3	2203797.3	242.4 mg/L	242.4 mg/L		19:33:06
2	As 188.979†	5.9	8.7	0.0048 mg/L	0.0048 mg/L		19:33:32
2	B 182.528†	-9.3	22.4	0.0173 mg/L	0.0173 mg/L		19:33:32
2	Ba 233.527†	40578.0	41308.7	0.2261 mg/L	0.2261 mg/L		19:33:11
2	Be 313.107†	1488486.7	1505000.7	0.2377 mg/L	0.2377 mg/L		19:33:06
2	Ca 315.886†	34513231.2	35012973.0	235.1 mg/L	235.1 mg/L		19:32:58
2	Cd 228.802†	36611.4	36748.8	0.4373 mg/L	0.4373 mg/L		19:33:11
2	Co 228.616†	14483.8	15088.7	0.2102 mg/L	0.2102 mg/L		19:33:32
2	Cr 267.716†	35622.7	34338.0	0.2298 mg/L	0.2298 mg/L		19:33:11
2	Cu 324.752†	41744.0	41010.2	0.2236 mg/L	0.2236 mg/L		19:33:11
2	Fe 238.204†	10423946.2	10574779.9	83.46 mg/L	83.46 mg/L		19:32:58
2	Fe 234.349†	3617031.1	3669460.7	88.94 mg/L	88.94 mg/L		19:33:06
2	Mg 279.077†	5195914.0	5271652.0	239.0 mg/L	239.0 mg/L		19:33:06
2	Mn 257.610†	227445.8	229916.4	0.2312 mg/L	0.2312 mg/L		19:33:11
2	Mo 202.031†	-202.2	-218.2	-0.0111 mg/L	-0.0111 mg/L		19:33:32
2	Na 330.237†	531.7	-601.6	-0.3143 mg/L	-0.3143 mg/L		19:33:11
2	Ni 231.604†	24607.9	24602.2	0.4301 mg/L	0.4301 mg/L		19:33:32
2	Pb 220.353†	3577.0	3733.0	0.4268 mg/L	0.4268 mg/L		19:33:32
2	Sb 206.836†	72.3	-7.6	-0.0043 mg/L	-0.0043 mg/L		19:33:32
2	Se 196.026†	-21.7	-19.3	-0.0249 mg/L	-0.0249 mg/L		19:33:32
2	Sn 189.927†	132.7	61.0	0.0180 mg/L	0.0180 mg/L		19:33:32
2	Ti 337.279†	5276.0	4340.6	0.0060 mg/L	0.0060 mg/L		19:33:11
2	Tl 190.801†	-5.4	6.1	0.0066 mg/L	0.0066 mg/L		19:33:32
2	V 292.402†	58388.0	56807.5	0.2318 mg/L	0.2318 mg/L		19:33:11
2	Zn 213.857†	43723.1	43508.3	0.4624 mg/L	0.4624 mg/L		19:33:11

## Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2296925.8				1127.30	0.05%
Ag 328.068†	165422.1	0.4858 mg/L	0.00146	0.4858 mg/L	0.00146	0.30%
QC value within limits for Ag 328.068		Recovery = 97.16%				
Al 237.313†	2204103.3	242.4 mg/L	0.05	242.4 mg/L	0.05	0.02%
QC value within limits for Al 237.313		Recovery = 96.97%				
As 188.979†	8.8	0.0048 mg/L	0.00008	0.0048 mg/L	0.00008	1.67%
QC value within limits for As 188.979		Recovery = Not calculated				
B 182.528†	23.5	0.0182 mg/L	0.00122	0.0182 mg/L	0.00122	6.74%
QC value within limits for B 182.528		Recovery = Not calculated				
Ba 233.527†	41288.7	0.2259 mg/L	0.00016	0.2259 mg/L	0.00016	0.07%
QC value within limits for Ba 233.527		Recovery = 90.38%				
Be 313.107†	1504134.5	0.2375 mg/L	0.00019	0.2375 mg/L	0.00019	0.08%
QC value within limits for Be 313.107		Recovery = 95.01%				
Ca 315.886†	34893887.3	234.3 mg/L	1.13	234.3 mg/L	1.13	0.48%
QC value within limits for Ca 315.886		Recovery = 93.73%				
Cd 228.802†	36751.5	0.4373 mg/L	0.00005	0.4373 mg/L	0.00005	0.01%
QC value within limits for Cd 228.802		Recovery = 87.47%				
Co 228.616†	15070.6	0.2099 mg/L	0.00036	0.2099 mg/L	0.00036	0.17%
QC value within limits for Co 228.616		Recovery = 83.96%				
Cr 267.716†	34426.5	0.2304 mg/L	0.00082	0.2304 mg/L	0.00082	0.36%
QC value within limits for Cr 267.716		Recovery = 92.14%				
Cu 324.752†	41097.7	0.2241 mg/L	0.00067	0.2241 mg/L	0.00067	0.30%
QC value within limits for Cu 324.752		Recovery = 89.64%				
Fe 238.204†	10540728.3	83.19 mg/L	0.380	83.19 mg/L	0.380	0.46%
QC value within limits for Fe 238.204		Recovery = 83.19%				
Fe 234.349†	3666803.9	88.87 mg/L	0.091	88.87 mg/L	0.091	0.10%
QC value within limits for Fe 234.349		Recovery = 88.87%				
Mg 279.077†	5264826.4	238.7 mg/L	0.44	238.7 mg/L	0.44	0.18%
QC value within limits for Mg 279.077		Recovery = 95.48%				
Mn 257.610†	230146.0	0.2315 mg/L	0.00032	0.2315 mg/L	0.00032	0.14%
QC value within limits for Mn 257.610		Recovery = 92.59%				
Mo 202.031†	-209.6	-0.0105 mg/L	0.00091	-0.0105 mg/L	0.00091	8.70%
QC value within limits for Mo 202.031		Recovery = Not calculated				
Na 330.237†	-619.7	-0.3527 mg/L	0.05440	-0.3527 mg/L	0.05440	15.42%
QC value within limits for Na 330.237		Recovery = Not calculated				
Ni 231.604†	24588.6	0.4299 mg/L	0.00034	0.4299 mg/L	0.00034	0.08%
QC value within limits for Ni 231.604		Recovery = 85.97%				
Pb 220.353†	3727.0	0.4262 mg/L	0.00093	0.4262 mg/L	0.00093	0.22%
QC value within limits for Pb 220.353		Recovery = 85.23%				



Sb 206.836†	-17.1	-0.0069 mg/L	0.00368	-0.0069 mg/L	0.00368	53.65%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-20.0	-0.0260 mg/L	0.00147	-0.0260 mg/L	0.00147	5.66%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	59.4	0.0175 mg/L	0.00071	0.0175 mg/L	0.00071	4.05%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	4327.8	0.0060 mg/L	0.00002	0.0060 mg/L	0.00002	0.39%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	2.4	0.0036 mg/L	0.00425	0.0036 mg/L	0.00425	118.13%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	56857.4	0.2320 mg/L	0.00029	0.2320 mg/L	0.00029	0.13%
QC value within limits for V 292.402 Recovery = 92.80%						
Zn 213.857†	43515.0	0.4624 mg/L	0.00010	0.4624 mg/L	0.00010	0.02%
QC value within limits for Zn 213.857 Recovery = 92.49%						

All analyte(s) passed QC.

Sequence No.: 13

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/23/2006 7:35:10 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2355578.1	2355578.1			19:36:43
1	Ag 328.068†	84297.9	83973.3	0.2470 mg/L	0.2470 mg/L	19:36:49
1	Al 237.313†	22419.6	22481.6	2.467 mg/L	2.467 mg/L	19:36:49
1	As 188.979†	602.9	599.0	0.5005 mg/L	0.5005 mg/L	19:37:09
1	B 182.528†	591.8	617.0	0.4949 mg/L	0.4949 mg/L	19:37:09
1	Ba 233.527†	91389.5	90520.1	0.4955 mg/L	0.4955 mg/L	19:36:49
1	Be 313.107†	326217.6	317452.2	0.0501 mg/L	0.0501 mg/L	19:36:43
1	Ca 315.886†	762859.7	751551.2	5.040 mg/L	5.040 mg/L	19:36:43
1	Cd 228.802†	21357.8	20726.2	0.2460 mg/L	0.2460 mg/L	19:36:49
1	Co 228.616†	35593.5	35594.5	0.4964 mg/L	0.4964 mg/L	19:36:49
1	Cr 267.716†	78330.6	75662.3	0.4973 mg/L	0.4973 mg/L	19:36:49
1	Cu 324.752†	92649.8	90285.0	0.4893 mg/L	0.4893 mg/L	19:36:49
1	Fe 238.204†	322763.2	318225.9	2.511 mg/L	2.511 mg/L	19:36:49
1	Fe 234.349†	104817.4	103413.8	2.503 mg/L	2.503 mg/L	19:36:49
1	Mg 279.077†	111000.9	109843.4	4.987 mg/L	4.987 mg/L	19:36:49
1	Mn 257.610†	512207.3	505709.7	0.5037 mg/L	0.5037 mg/L	19:36:43
1	Mo 202.031†	6720.1	6632.8	0.5023 mg/L	0.5023 mg/L	19:37:09
1	Na 330.237†	12397.5	11119.6	24.01 mg/L	24.01 mg/L	19:36:49
1	Ni 231.604†	29174.7	28488.4	0.4980 mg/L	0.4980 mg/L	19:36:49
1	Pb 220.353†	4514.6	4568.7	0.5042 mg/L	0.5042 mg/L	19:37:09
1	Sb 206.836†	1926.9	1824.7	0.4910 mg/L	0.4910 mg/L	19:37:09
1	Se 196.026†	716.6	711.5	0.9998 mg/L	0.9998 mg/L	19:37:09
1	Sn 189.927†	1667.8	1575.8	0.5007 mg/L	0.5007 mg/L	19:37:09
1	Ti 337.279†	399588.6	394164.1	0.5020 mg/L	0.5020 mg/L	19:36:43
1	Tl 190.801†	585.4	590.5	0.4903 mg/L	0.4903 mg/L	19:37:09
1	V 292.402†	126373.8	122547.6	0.4989 mg/L	0.4989 mg/L	19:36:49
1	Zn 213.857†	48021.2	46639.4	0.4957 mg/L	0.4957 mg/L	19:36:49
2	Y 360.073	2342017.6	2342017.6			19:37:16
2	Ag 328.068†	84469.1	84626.4	0.2490 mg/L	0.2490 mg/L	19:37:21
2	Al 237.313†	22467.1	22657.2	2.486 mg/L	2.486 mg/L	19:37:21
2	As 188.979†	605.0	604.5	0.5051 mg/L	0.5051 mg/L	19:37:41
2	B 182.528†	602.2	630.8	0.5060 mg/L	0.5060 mg/L	19:37:41
2	Ba 233.527†	91739.5	91391.6	0.5002 mg/L	0.5002 mg/L	19:37:21
2	Be 313.107†	325144.4	318252.7	0.0502 mg/L	0.0502 mg/L	19:37:16
2	Ca 315.886†	761002.0	754071.6	5.057 mg/L	5.057 mg/L	19:37:16
2	Cd 228.802†	21420.7	20911.0	0.2482 mg/L	0.2482 mg/L	19:37:21
2	Co 228.616†	35715.9	35920.1	0.5009 mg/L	0.5009 mg/L	19:37:21
2	Cr 267.716†	78504.7	76284.0	0.5014 mg/L	0.5014 mg/L	19:37:21
2	Cu 324.752†	93376.6	91538.5	0.4961 mg/L	0.4961 mg/L	19:37:21
2	Fe 238.204†	323476.0	320783.0	2.531 mg/L	2.531 mg/L	19:37:21
2	Fe 234.349†	105071.9	104267.1	2.523 mg/L	2.523 mg/L	19:37:21
2	Mg 279.077†	111331.1	110807.6	5.030 mg/L	5.030 mg/L	19:37:21
2	Mn 257.610†	510924.4	507366.7	0.5053 mg/L	0.5053 mg/L	19:37:16
2	Mo 202.031†	6714.9	6666.2	0.5048 mg/L	0.5048 mg/L	19:37:41

Se 196.026†	4.4	0.0082 mg/L	0.00268	0.0082 mg/L	0.00268	32.60%
Sn 189.927†	64.1	0.0190 mg/L	0.00383	0.0190 mg/L	0.00383	20.20%
Ti 337.279†	12.7	0.0005 mg/L	0.00001	0.0005 mg/L	0.00001	2.13%
Tl 190.801†	8.6	0.0095 mg/L	0.00202	0.0095 mg/L	0.00202	21.38%
V 292.402†	15.4	0.0010 mg/L	0.00009	0.0010 mg/L	0.00009	8.96%
Zn 213.857†	24896.6	0.2664 mg/L	0.00032	0.2664 mg/L	0.00032	0.12%

Sequence No.: 37

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/23/2006 9:14:48 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2355022.3	2355022.3			21:16:22
1	Ag 328.068†	84476.9	84170.0	0.2476 mg/L	0.2476 mg/L	21:16:28
1	Al 237.313†	22348.4	22416.3	2.460 mg/L	2.460 mg/L	21:16:28
1	As 188.979†	608.9	605.0	0.5056 mg/L	0.5056 mg/L	21:16:48
1	B 182.528†	601.5	626.8	0.5028 mg/L	0.5028 mg/L	21:16:48
1	Ba 233.527†	91894.3	91040.8	0.4983 mg/L	0.4983 mg/L	21:16:28
1	Be 313.107†	327444.9	318742.4	0.0503 mg/L	0.0503 mg/L	21:16:22
1	Ca 315.886†	765789.1	754627.0	5.061 mg/L	5.061 mg/L	21:16:22
1	Cd 228.802†	21401.9	20774.7	0.2465 mg/L	0.2465 mg/L	21:16:28
1	Co 228.616†	35832.8	35839.5	0.4998 mg/L	0.4998 mg/L	21:16:28
1	Cr 267.716†	78582.7	75929.9	0.4991 mg/L	0.4991 mg/L	21:16:28
1	Cu 324.752†	92746.2	90402.0	0.4899 mg/L	0.4899 mg/L	21:16:28
1	Fe 238.204†	320215.0	315780.5	2.492 mg/L	2.492 mg/L	21:16:28
1	Fe 234.349†	103932.7	102563.1	2.482 mg/L	2.482 mg/L	21:16:28
1	Mg 279.077†	110698.7	109570.5	4.974 mg/L	4.974 mg/L	21:16:28
1	Mn 257.610†	514399.3	507997.7	0.5060 mg/L	0.5060 mg/L	21:16:22
1	Mo 202.031†	6721.9	6636.2	0.5025 mg/L	0.5025 mg/L	21:16:48
1	Na 330.237†	12369.3	11094.6	23.96 mg/L	23.96 mg/L	21:16:28
1	Ni 231.604†	29298.7	28617.9	0.5003 mg/L	0.5003 mg/L	21:16:28
1	Pb 220.353†	4508.8	4564.1	0.5037 mg/L	0.5037 mg/L	21:16:48
1	Sb 206.836†	1947.8	1845.8	0.4967 mg/L	0.4967 mg/L	21:16:48
1	Se 196.026†	722.0	717.0	1.008 mg/L	1.008 mg/L	21:16:48
1	Sn 189.927†	1682.0	1590.3	0.5052 mg/L	0.5052 mg/L	21:16:48
1	Ti 337.279†	400390.8	395050.9	0.5032 mg/L	0.5032 mg/L	21:16:22
1	Tl 190.801†	590.8	595.9	0.4948 mg/L	0.4948 mg/L	21:16:48
1	V 292.402†	126730.9	122930.3	0.5004 mg/L	0.5004 mg/L	21:16:28
1	Zn 213.857†	48050.4	46679.5	0.4961 mg/L	0.4961 mg/L	21:16:28
2	Y 360.073	2348463.5	2348463.5			21:16:55
2	Ag 328.068†	85508.7	85426.9	0.2513 mg/L	0.2513 mg/L	21:17:00
2	Al 237.313†	22592.7	22720.5	2.493 mg/L	2.493 mg/L	21:17:00
2	As 188.979†	604.0	601.9	0.5029 mg/L	0.5029 mg/L	21:17:20
2	B 182.528†	597.5	624.5	0.5009 mg/L	0.5009 mg/L	21:17:20
2	Ba 233.527†	92767.4	92160.7	0.5044 mg/L	0.5044 mg/L	21:17:00
2	Be 313.107†	326997.4	319203.1	0.0504 mg/L	0.0504 mg/L	21:16:55
2	Ca 315.886†	764592.2	755555.3	5.067 mg/L	5.067 mg/L	21:16:55
2	Cd 228.802†	21631.1	21061.2	0.2500 mg/L	0.2500 mg/L	21:17:00
2	Co 228.616†	36128.6	36232.0	0.5053 mg/L	0.5053 mg/L	21:17:00
2	Cr 267.716†	79359.3	76917.3	0.5056 mg/L	0.5056 mg/L	21:17:00
2	Cu 324.752†	94316.8	92216.1	0.4997 mg/L	0.4997 mg/L	21:17:00
2	Fe 238.204†	323462.3	319886.3	2.524 mg/L	2.524 mg/L	21:17:00
2	Fe 234.349†	104950.1	103859.4	2.514 mg/L	2.514 mg/L	21:17:00
2	Mg 279.077†	111725.3	110894.6	5.034 mg/L	5.034 mg/L	21:17:00
2	Mn 257.610†	513967.0	508989.8	0.5070 mg/L	0.5070 mg/L	21:16:55
2	Mo 202.031†	6732.3	6665.1	0.5047 mg/L	0.5047 mg/L	21:17:20
2	Na 330.237†	12565.8	11323.7	24.44 mg/L	24.44 mg/L	21:17:00
2	Ni 231.604†	29572.7	28970.6	0.5064 mg/L	0.5064 mg/L	21:17:00
2	Pb 220.353†	4492.0	4559.8	0.5033 mg/L	0.5033 mg/L	21:17:20
2	Sb 206.836†	1941.3	1844.7	0.4964 mg/L	0.4964 mg/L	21:17:20
2	Se 196.026†	714.3	711.3	0.9996 mg/L	0.9996 mg/L	21:17:20
2	Sn 189.927†	1682.2	1595.1	0.5068 mg/L	0.5068 mg/L	21:17:20
2	Ti 337.279†	399753.7	395525.1	0.5038 mg/L	0.5038 mg/L	21:16:55
2	Tl 190.801†	592.5	599.3	0.4975 mg/L	0.4975 mg/L	21:17:20
2	V 292.402†	128144.3	124682.5	0.5076 mg/L	0.5076 mg/L	21:17:00

2 Zn 213.857† 48355.1 47114.5 0.5007 mg/L 0.5007 mg/L 21:17:00

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2351742.9				4637.74	0.20%
Ag 328.068†	84798.5	0.2495 mg/L	0.00261	0.2495 mg/L	0.00261	1.04%
QC value within limits for Ag 328.068 Recovery = 99.79%						
Al 237.313†	22568.4	2.476 mg/L	0.0236	2.476 mg/L	0.0236	0.95%
QC value within limits for Al 237.313 Recovery = 99.06%						
As 188.979†	603.4	0.5042 mg/L	0.00185	0.5042 mg/L	0.00185	0.37%
QC value within limits for As 188.979 Recovery = 100.85%						
B 182.528†	625.6	0.5019 mg/L	0.00132	0.5019 mg/L	0.00132	0.26%
QC value within limits for B 182.528 Recovery = 100.37%						
Ba 233.527†	91600.7	0.5014 mg/L	0.00433	0.5014 mg/L	0.00433	0.86%
QC value within limits for Ba 233.527 Recovery = 100.27%						
Be 313.107†	318972.7	0.0503 mg/L	0.00005	0.0503 mg/L	0.00005	0.10%
QC value within limits for Be 313.107 Recovery = 100.65%						
Ca 315.886†	755091.1	5.064 mg/L	0.0044	5.064 mg/L	0.0044	0.09%
QC value within limits for Ca 315.886 Recovery = 101.28%						
Cd 228.802†	20918.0	0.2483 mg/L	0.00242	0.2483 mg/L	0.00242	0.97%
QC value within limits for Cd 228.802 Recovery = 99.30%						
Co 228.616†	36035.7	0.5026 mg/L	0.00388	0.5026 mg/L	0.00388	0.77%
QC value within limits for Co 228.616 Recovery = 100.51%						
Cr 267.716†	76423.6	0.5023 mg/L	0.00460	0.5023 mg/L	0.00460	0.91%
QC value within limits for Cr 267.716 Recovery = 100.46%						
Cu 324.752†	91309.1	0.4948 mg/L	0.00691	0.4948 mg/L	0.00691	1.40%
QC value within limits for Cu 324.752 Recovery = 98.96%						
Fe 238.204†	317833.4	2.508 mg/L	0.0229	2.508 mg/L	0.0229	0.91%
QC value within limits for Fe 238.204 Recovery = 100.33%						
Fe 234.349†	103211.3	2.498 mg/L	0.0222	2.498 mg/L	0.0222	0.89%
QC value within limits for Fe 234.349 Recovery = 99.91%						
Mg 279.077†	110232.5	5.004 mg/L	0.0424	5.004 mg/L	0.0424	0.85%
QC value within limits for Mg 279.077 Recovery = 100.09%						
Mn 257.610†	508493.7	0.5065 mg/L	0.00070	0.5065 mg/L	0.00070	0.14%
QC value within limits for Mn 257.610 Recovery = 101.29%						
Mo 202.031†	6650.7	0.5036 mg/L	0.00155	0.5036 mg/L	0.00155	0.31%
QC value within limits for Mo 202.031 Recovery = 100.73%						
Na 330.237†	11209.1	24.20 mg/L	0.341	24.20 mg/L	0.341	1.41%
QC value within limits for Na 330.237 Recovery = 96.80%						
Ni 231.604†	28794.3	0.5033 mg/L	0.00437	0.5033 mg/L	0.00437	0.87%
QC value within limits for Ni 231.604 Recovery = 100.67%						
Pb 220.353†	4561.9	0.5035 mg/L	0.00032	0.5035 mg/L	0.00032	0.06%
QC value within limits for Pb 220.353 Recovery = 100.70%						
Sb 206.836†	1845.3	0.4965 mg/L	0.00028	0.4965 mg/L	0.00028	0.06%
QC value within limits for Sb 206.836 Recovery = 99.31%						
Se 196.026†	714.2	1.004 mg/L	0.0057	1.004 mg/L	0.0057	0.57%
QC value within limits for Se 196.026 Recovery = 100.36%						
Sn 189.927†	1592.7	0.5060 mg/L	0.00108	0.5060 mg/L	0.00108	0.21%
QC value within limits for Sn 189.927 Recovery = 101.20%						
Ti 337.279†	395288.0	0.5035 mg/L	0.00043	0.5035 mg/L	0.00043	0.08%
QC value within limits for Ti 337.279 Recovery = 100.69%						
Tl 190.801†	597.6	0.4961 mg/L	0.00192	0.4961 mg/L	0.00192	0.39%
QC value within limits for Tl 190.801 Recovery = 99.23%						
V 292.402†	123806.4	0.5040 mg/L	0.00504	0.5040 mg/L	0.00504	1.00%
QC value within limits for V 292.402 Recovery = 100.80%						
Zn 213.857†	46897.0	0.4984 mg/L	0.00326	0.4984 mg/L	0.00326	0.65%
QC value within limits for Zn 213.857 Recovery = 99.68%						

All analyte(s) passed QC.

Sequence No.: 38  
 Sample ID: ICCB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 1  
 Date Collected: 6/23/2006 9:18:58 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: ICCB

Net Corrected Calib. Sample Analysis

Repl#	Analyte	Intensity	Intensity	Conc. Units	Conc. Units	Time
1	Y 360.073	2337499.5	2337499.5			21:20:29
1	Ag 328.068†	-611.1	-2.8	0.0007 mg/L	0.0007 mg/L	21:20:34
1	Al 237.313†	-293.9	16.7	0.0087 mg/L	0.0087 mg/L	21:20:55
1	As 188.979†	1.9	4.6	0.0014 mg/L	0.0014 mg/L	21:20:55
1	B 182.528†	-23.5	8.4	0.0060 mg/L	0.0060 mg/L	21:20:55
1	Ba 233.527†	-140.1	0.1	-0.0001 mg/L	-0.0001 mg/L	21:20:55
1	Be 313.107†	5335.3	153.9	0.0000 mg/L	0.0000 mg/L	21:20:34
1	Ca 315.886†	3822.7	924.7	-0.0012 mg/L	-0.0012 mg/L	21:20:34
1	Cd 228.802†	401.9	4.7	0.0007 mg/L	0.0007 mg/L	21:20:55
1	Co 228.616†	-384.4	11.0	-0.0008 mg/L	-0.0008 mg/L	21:20:55
1	Cr 267.716†	1787.9	-21.6	-0.0007 mg/L	-0.0007 mg/L	21:20:34
1	Cu 324.752†	1465.2	118.5	0.0033 mg/L	0.0033 mg/L	21:20:34
1	Fe 238.204†	894.7	-81.7	-0.0017 mg/L	-0.0017 mg/L	21:20:55
1	Fe 234.349†	222.3	-24.7	0.0003 mg/L	0.0003 mg/L	21:20:55
1	Mg 279.077†	29.9	98.0	0.0106 mg/L	0.0106 mg/L	21:20:34
1	Mn 257.610†	950.8	105.8	-0.0013 mg/L	-0.0013 mg/L	21:20:34
1	Mo 202.031†	30.0	16.8	0.0003 mg/L	0.0003 mg/L	21:20:55
1	Na 330.237†	1186.6	41.6	0.7053 mg/L	0.7053 mg/L	21:20:34
1	Ni 231.604†	370.4	5.0	-0.0008 mg/L	-0.0008 mg/L	21:20:55
1	Pb 220.353†	-120.6	-16.2	-0.0014 mg/L	-0.0014 mg/L	21:20:55
1	Sb 206.836†	77.1	-4.1	-0.0005 mg/L	-0.0005 mg/L	21:20:55
1	Se 196.026†	-3.1	-0.3	0.0016 mg/L	0.0016 mg/L	21:20:55
1	Sn 189.927†	46.1	-27.7	-0.0102 mg/L	-0.0102 mg/L	21:20:55
1	Ti 337.279†	1128.0	111.9	0.0006 mg/L	0.0006 mg/L	21:20:34
1	Tl 190.801†	-3.8	7.7	0.0085 mg/L	0.0085 mg/L	21:20:55
1	V 292.402†	2403.4	-35.5	0.0005 mg/L	0.0005 mg/L	21:20:34
1	Zn 213.857†	922.8	68.2	0.0009 mg/L	0.0009 mg/L	21:20:55
2	Y 360.073	2336667.0	2336667.0			21:21:00
2	Ag 328.068†	-551.5	56.5	0.0009 mg/L	0.0009 mg/L	21:21:05
2	Al 237.313†	-316.2	-5.7	0.0062 mg/L	0.0062 mg/L	21:21:26
2	As 188.979†	1.6	4.3	0.0012 mg/L	0.0012 mg/L	21:21:26
2	B 182.528†	-22.1	9.7	0.0071 mg/L	0.0071 mg/L	21:21:26
2	Ba 233.527†	-127.2	13.0	0.0000 mg/L	0.0000 mg/L	21:21:26
2	Be 313.107†	5212.3	33.1	0.0000 mg/L	0.0000 mg/L	21:21:05
2	Ca 315.886†	3850.2	953.5	-0.0010 mg/L	-0.0010 mg/L	21:21:05
2	Cd 228.802†	402.7	5.6	0.0007 mg/L	0.0007 mg/L	21:21:26
2	Co 228.616†	-382.7	12.5	-0.0008 mg/L	-0.0008 mg/L	21:21:26
2	Cr 267.716†	1851.1	42.0	-0.0003 mg/L	-0.0003 mg/L	21:21:05
2	Cu 324.752†	1438.7	92.6	0.0032 mg/L	0.0032 mg/L	21:21:05
2	Fe 238.204†	848.2	-127.8	-0.0021 mg/L	-0.0021 mg/L	21:21:26
2	Fe 234.349†	208.3	-38.6	-0.0001 mg/L	-0.0001 mg/L	21:21:26
2	Mg 279.077†	33.4	101.5	0.0108 mg/L	0.0108 mg/L	21:21:05
2	Mn 257.610†	930.6	86.0	-0.0013 mg/L	-0.0013 mg/L	21:21:05
2	Mo 202.031†	32.0	18.9	0.0005 mg/L	0.0005 mg/L	21:21:26
2	Na 330.237†	1202.3	57.6	0.7391 mg/L	0.7391 mg/L	21:21:05
2	Ni 231.604†	365.0	-0.3	-0.0009 mg/L	-0.0009 mg/L	21:21:26
2	Pb 220.353†	-125.4	-21.1	-0.0020 mg/L	-0.0020 mg/L	21:21:26
2	Sb 206.836†	78.0	-3.1	-0.0003 mg/L	-0.0003 mg/L	21:21:26
2	Se 196.026†	-3.6	-0.8	0.0009 mg/L	0.0009 mg/L	21:21:26
2	Sn 189.927†	56.1	-17.6	-0.0070 mg/L	-0.0070 mg/L	21:21:26
2	Ti 337.279†	1155.7	139.9	0.0006 mg/L	0.0006 mg/L	21:21:05
2	Tl 190.801†	-2.3	9.3	0.0098 mg/L	0.0098 mg/L	21:21:26
2	V 292.402†	2460.6	22.3	0.0008 mg/L	0.0008 mg/L	21:21:05
2	Zn 213.857†	893.9	39.7	0.0006 mg/L	0.0006 mg/L	21:21:26

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2337083.3				588.67	0.03%
Ag 328.068†	26.8	0.0008 mg/L	0.00012	0.0008 mg/L	0.00012	14.80%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	5.5	0.0075 mg/L	0.00174	0.0075 mg/L	0.00174	23.40%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	4.4	0.0013 mg/L	0.00017	0.0013 mg/L	0.00017	12.99%
QC value within limits for As 188.979 Recovery = Not calculated						
B 182.528†	9.0	0.0066 mg/L	0.00076	0.0066 mg/L	0.00076	11.64%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	6.5	0.0000 mg/L	0.00005	0.0000 mg/L	0.00005	107.08%
QC value within limits for Ba 233.527 Recovery = Not calculated						

Be 313.107†	93.5	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	605.67%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.886†	939.1	-0.0011 mg/L	0.00014	-0.0011 mg/L	0.00014	12.19%
QC value within limits for Ca 315.886 Recovery = Not calculated						
Cd 228.802†	5.2	0.0007 mg/L	0.00001	0.0007 mg/L	0.00001	1.24%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	11.7	-0.0008 mg/L	0.00002	-0.0008 mg/L	0.00002	1.82%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	10.2	-0.0005 mg/L	0.00030	-0.0005 mg/L	0.00030	60.87%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	105.5	0.0033 mg/L	0.00010	0.0033 mg/L	0.00010	3.04%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204†	-104.8	-0.0019 mg/L	0.00026	-0.0019 mg/L	0.00026	13.57%
QC value within limits for Fe 238.204 Recovery = Not calculated						
Fe 234.349†	-31.6	0.0001 mg/L	0.00024	0.0001 mg/L	0.00024	227.14%
QC value within limits for Fe 234.349 Recovery = Not calculated						
Mg 279.077†	99.8	0.0107 mg/L	0.00011	0.0107 mg/L	0.00011	1.05%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	95.9	-0.0013 mg/L	0.00001	-0.0013 mg/L	0.00001	1.11%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	17.9	0.0004 mg/L	0.00011	0.0004 mg/L	0.00011	27.95%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 330.237†	49.6	0.7222 mg/L	0.02386	0.7222 mg/L	0.02386	3.30%
QC value within limits for Na 330.237 Recovery = Not calculated						
Ni 231.604†	2.4	-0.0008 mg/L	0.00007	-0.0008 mg/L	0.00007	7.76%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-18.6	-0.0017 mg/L	0.00038	-0.0017 mg/L	0.00038	22.22%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-3.6	-0.0004 mg/L	0.00019	-0.0004 mg/L	0.00019	44.99%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-0.6	0.0013 mg/L	0.00049	0.0013 mg/L	0.00049	37.66%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-22.6	-0.0086 mg/L	0.00226	-0.0086 mg/L	0.00226	26.27%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	125.9	0.0006 mg/L	0.00003	0.0006 mg/L	0.00003	4.16%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	8.5	0.0092 mg/L	0.00092	0.0092 mg/L	0.00092	10.01%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	-6.6	0.0006 mg/L	0.00017	0.0006 mg/L	0.00017	25.78%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	53.9	0.0008 mg/L	0.00021	0.0008 mg/L	0.00021	27.84%
QC value within limits for Zn 213.857 Recovery = Not calculated						

All analyte(s) passed QC.

Sequence No.: 39  
 Sample ID: 0606369-02  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 29  
 Date Collected: 6/23/2006 9:23:02 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

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 Replicate Data: 0606369-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2076669.5	2076669.5					21:24:37
1	Ag 328.068†	-314.0	254.0	0.0015	mg/L	0.0015	mg/L	21:24:42
1	Al 237.313†	68077.9	76678.0	8.388	mg/L	8.388	mg/L	21:24:42
1	As 188.979†	27.4	33.5	0.0252	mg/L	0.0252	mg/L	21:25:02
1	B 182.528†	24357.7	27355.7	21.97	mg/L	21.97	mg/L	21:24:42
1	Ba 233.527†	8190.8	9328.0	0.0510	mg/L	0.0510	mg/L	21:25:02
1	Be 313.107†	5707.9	1239.8	0.0003	mg/L	0.0003	mg/L	21:24:42
1	Ca 315.886†	1603754.6	1796176.1	12.06	mg/L	12.06	mg/L	21:24:37
1	Cd 228.802†	526.5	194.8	0.0024	mg/L	0.0024	mg/L	21:25:02
1	Co 228.616†	5761.1	6856.8	0.0942	mg/L	0.0942	mg/L	21:25:02
1	Cr 267.716†	150396.6	166908.5	1.098	mg/L	1.098	mg/L	21:24:42
1	Cu 324.752†	723614.0	810394.6	4.369	mg/L	4.369	mg/L	21:24:37
1	Fe 238.204†	1281089.8	1436128.5	11.33	mg/L	11.33	mg/L	21:24:37
1	Fe 234.349†	419699.4	470564.5	11.40	mg/L	11.40	mg/L	21:24:42
1	Mg 279.077†	41971.6	47151.1	2.123	mg/L	2.123	mg/L	21:24:42
1	Mn 257.610†	182827.4	204250.5	0.2030	mg/L	0.2030	mg/L	21:24:42

## Matrix Recovery Check: BF62301-PDS2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.2510	0.2495	0.000	mg/L	99.4
Al 237.313	7.286	7.245	0.001	mg/L	98.4
As 188.979	0.5050	0.5039	0.001	mg/L	99.8
B 182.528	0.3856	0.3743	0.003	mg/L	97.7
Ba 233.527	0.5078	0.4884	0.001	mg/L	96.1
Be 313.107	0.0507	0.0513	0.000	mg/L	101.2
Ca 315.886	146.4	145.3	1.106	mg/L	78.1
Cd 228.802	0.2512	0.2398	0.000	mg/L	95.4
Co 228.616	0.5081	0.4898	0.000	mg/L	96.3
Cr 267.716	0.5019	0.4912	0.001	mg/L	97.9
Cu 324.752	0.5337	0.5293	0.005	mg/L	99.1
Fe 238.204	4.170	4.129	0.000	mg/L	98.4
Fe 234.349	4.201	4.152	0.002	mg/L	98.0
Mg 279.077	13.56	13.39	0.020	mg/L	96.4
Mn 257.610	0.7090	0.6959	0.001	mg/L	97.4
Mo 202.031	0.4979	0.4946	0.001	mg/L	99.3
Na 330.237	46.80	48.31	0.507	mg/L	106.0
Ni 231.604	0.5325	0.5232	0.001	mg/L	98.2
Pb 220.353	0.5180	0.5039	0.000	mg/L	97.2
Sb 206.836	0.4981	0.4842	0.003	mg/L	97.2
Se 196.026	1.007	1.022	0.008	mg/L	101.5
Sn 189.927	0.5340	0.5638	0.003	mg/L	106.0
Ti 337.279	0.5013	0.3982	0.000	mg/L	79.4
Tl 190.801	0.5031	0.4764	0.005	mg/L	94.7
V 292.402	0.5345	0.5268	0.001	mg/L	98.4
Zn 213.857	0.7527	0.7279	0.000	mg/L	95.0

Sequence No.: 47

Sample ID: BF62302-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 37

Date Collected: 6/23/2006 9:57:46 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: BF62302-BLK1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2389360.0	2389360.0					
1	Ag 328.068†	-687.2	-63.8	0.0006	mg/L	0.0006	mg/L	21:59:18
1	Al 237.313†	-302.0	15.1	0.0085	mg/L	0.0085	mg/L	21:59:23
1	As 188.979†	2.2	4.9	0.0017	mg/L	0.0017	mg/L	21:59:43
1	B 182.528†	-1.3	30.5	0.0238	mg/L	0.0238	mg/L	21:59:43
1	Ba 233.527†	-122.0	20.8	0.0000	mg/L	0.0000	mg/L	21:59:43
1	Be 313.107†	5219.1	-74.8	0.0000	mg/L	0.0000	mg/L	21:59:23
1	Ca 315.886†	6240.4	3199.2	0.0141	mg/L	0.0141	mg/L	21:59:23
1	Cd 228.802†	378.8	-26.5	0.0003	mg/L	0.0003	mg/L	21:59:43
1	Co 228.616†	-370.9	32.4	-0.0005	mg/L	-0.0005	mg/L	21:59:43
1	Cr 267.716†	1828.2	-20.9	-0.0007	mg/L	-0.0007	mg/L	21:59:23
1	Cu 324.752†	1575.0	193.9	0.0037	mg/L	0.0037	mg/L	21:59:23
1	Fe 238.204†	1329.7	323.0	0.0015	mg/L	0.0015	mg/L	21:59:43
1	Fe 234.349†	349.4	94.4	0.0032	mg/L	0.0032	mg/L	21:59:43
1	Mg 279.077†	74.2	140.6	0.0125	mg/L	0.0125	mg/L	21:59:23
1	Mn 257.610†	1273.7	400.1	-0.0010	mg/L	-0.0010	mg/L	21:59:23
1	Mo 202.031†	38.0	24.0	0.0009	mg/L	0.0009	mg/L	21:59:43
1	Na 330.237†	1100.4	-68.1	0.4743	mg/L	0.4743	mg/L	21:59:23
1	Ni 231.604†	371.4	-2.1	-0.0009	mg/L	-0.0009	mg/L	21:59:43
1	Pb 220.353†	-99.7	6.8	0.0011	mg/L	0.0011	mg/L	21:59:43
1	Sb 206.836†	80.0	-3.0	-0.0002	mg/L	-0.0002	mg/L	21:59:43
1	Se 196.026†	-7.3	-4.3	-0.0040	mg/L	-0.0040	mg/L	21:59:43
1	Sn 189.927†	41.8	-32.8	-0.0118	mg/L	-0.0118	mg/L	21:59:43
1	Ti 337.279†	1036.8	-1.3	0.0004	mg/L	0.0004	mg/L	21:59:23
1	Tl 190.801†	6.9	18.3	0.0173	mg/L	0.0173	mg/L	21:59:43
1	V 292.402†	2434.7	-57.0	0.0004	mg/L	0.0004	mg/L	21:59:23
1	Zn 213.857†	1140.7	260.6	0.0030	mg/L	0.0030	mg/L	21:59:43
2	Y 360.073	2366956.0	2366956.0					
2	Ag 328.068†	-599.3	16.4	0.0008	mg/L	0.0008	mg/L	21:59:49

Element	Value	Value	Calib	Conc.	Conc.	Time
2 Al 237.313†	-274.4	39.5	0.0112 mg/L	0.0112 mg/L	22:00:14	
2 As 188.979†	-0.3	2.4	-0.0004 mg/L	-0.0004 mg/L	22:00:14	
2 B 182.528†	-2.6	29.2	0.0228 mg/L	0.0228 mg/L	22:00:14	
2 Ba 233.527†	-127.7	14.0	0.0000 mg/L	0.0000 mg/L	22:00:14	
2 Be 313.107†	5234.9	-11.1	0.0000 mg/L	0.0000 mg/L	21:59:54	
2 Ca 315.886†	5996.5	3016.8	0.0128 mg/L	0.0128 mg/L	21:59:54	
2 Cd 228.802†	381.5	-20.3	0.0004 mg/L	0.0004 mg/L	22:00:14	
2 Co 228.616†	-402.8	-2.4	-0.0010 mg/L	-0.0010 mg/L	22:00:14	
2 Cr 267.716†	1780.1	-51.5	-0.0009 mg/L	-0.0009 mg/L	21:59:54	
2 Cu 324.752†	1567.0	200.5	0.0038 mg/L	0.0038 mg/L	21:59:54	
2 Fe 238.204†	1292.1	298.2	0.0013 mg/L	0.0013 mg/L	22:00:14	
2 Fe 234.349†	335.0	83.5	0.0029 mg/L	0.0029 mg/L	22:00:14	
2 Mg 279.077†	41.6	109.2	0.0111 mg/L	0.0111 mg/L	21:59:54	
2 Mn 257.610†	1304.5	442.1	-0.0009 mg/L	-0.0009 mg/L	21:59:54	
2 Mo 202.031†	39.3	25.6	0.0010 mg/L	0.0010 mg/L	22:00:14	
2 Na 330.237†	1094.4	-63.9	0.4832 mg/L	0.4832 mg/L	21:59:54	
2 Ni 231.604†	366.5	-3.4	-0.0009 mg/L	-0.0009 mg/L	22:00:14	
2 Pb 220.353†	-111.3	-5.5	-0.0002 mg/L	-0.0002 mg/L	22:00:14	
2 Sb 206.836†	73.4	-8.7	-0.0018 mg/L	-0.0018 mg/L	22:00:14	
2 Se 196.026†	-4.3	-1.5	0.0000 mg/L	0.0000 mg/L	22:00:14	
2 Sn 189.927†	44.6	-29.7	-0.0108 mg/L	-0.0108 mg/L	22:00:14	
2 Ti 337.279†	1050.8	22.0	0.0005 mg/L	0.0005 mg/L	21:59:54	
2 Tl 190.801†	3.0	14.5	0.0141 mg/L	0.0141 mg/L	22:00:14	
2 V 292.402†	2417.8	-51.2	0.0005 mg/L	0.0005 mg/L	21:59:54	
2 Zn 213.857†	1133.5	264.1	0.0030 mg/L	0.0030 mg/L	22:00:14	

Mean Data: BF62302-BLK1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2378158.0				15842.01	0.67%
Ag 328.068†	-23.7	0.0007 mg/L	0.00017	0.0007 mg/L	0.00017	24.37%
Al 237.313†	27.3	0.0098 mg/L	0.00190	0.0098 mg/L	0.00190	19.35%
As 188.979†	3.6	0.0006 mg/L	0.00144	0.0006 mg/L	0.00144	224.66%
B 182.528†	29.9	0.0233 mg/L	0.00073	0.0233 mg/L	0.00073	3.12%
Ba 233.527†	17.4	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	196.20%
Be 313.107†	-42.9	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	29.87%
Ca 315.886†	3108.0	0.0134 mg/L	0.00087	0.0134 mg/L	0.00087	6.44%
Cd 228.802†	-23.4	0.0004 mg/L	0.00006	0.0004 mg/L	0.00006	16.08%
Co 228.616†	15.0	-0.0008 mg/L	0.00034	-0.0008 mg/L	0.00034	44.16%
Cr 267.716†	-36.2	-0.0008 mg/L	0.00014	-0.0008 mg/L	0.00014	17.94%
Cu 324.752†	197.2	0.0037 mg/L	0.00003	0.0037 mg/L	0.00003	0.67%
Fe 238.204†	310.6	0.0014 mg/L	0.00014	0.0014 mg/L	0.00014	9.95%
Fe 234.349†	88.9	0.0030 mg/L	0.00019	0.0030 mg/L	0.00019	6.15%
Mg 279.077†	124.9	0.0118 mg/L	0.00101	0.0118 mg/L	0.00101	8.51%
Mn 257.610†	421.1	-0.0009 mg/L	0.00003	-0.0009 mg/L	0.00003	3.17%
Mo 202.031†	24.8	0.0009 mg/L	0.00008	0.0009 mg/L	0.00008	9.16%
Na 330.237†	-66.0	0.4788 mg/L	0.00626	0.4788 mg/L	0.00626	1.31%
Ni 231.604†	-2.7	-0.0009 mg/L	0.00002	-0.0009 mg/L	0.00002	1.72%
Pb 220.353†	0.6	0.0004 mg/L	0.00095	0.0004 mg/L	0.00095	223.78%
Sb 206.836†	-5.8	-0.0010 mg/L	0.00110	-0.0010 mg/L	0.00110	108.91%
Se 196.026†	-2.9	-0.0020 mg/L	0.00284	-0.0020 mg/L	0.00284	144.58%
Sn 189.927†	-31.2	-0.0113 mg/L	0.00071	-0.0113 mg/L	0.00071	6.24%
Ti 337.279†	10.3	0.0005 mg/L	0.00002	0.0005 mg/L	0.00002	4.58%
Tl 190.801†	16.4	0.0157 mg/L	0.00221	0.0157 mg/L	0.00221	14.08%
V 292.402†	-54.1	0.0005 mg/L	0.00002	0.0005 mg/L	0.00002	3.37%
Zn 213.857†	262.3	0.0030 mg/L	0.00003	0.0030 mg/L	0.00003	0.89%

Sequence No.: 48  
 Sample ID: BF62302-BS1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 38  
 Date Collected: 6/23/2006 10:01:52 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: BF62302-BS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2383847.9	2383847.9			22:03:25
1	Ag 328.068†	89824.9	88385.9	0.2600 mg/L	0.2600 mg/L	22:03:31

1	Al 237.313†	23428.1	23204.2	2.546 mg/L	2.546 mg/L	22:03:31
1	As 188.979†	623.8	612.3	0.5116 mg/L	0.5116 mg/L	22:03:51
1	B 182.528†	633.2	650.6	0.5219 mg/L	0.5219 mg/L	22:03:51
1	Ba 233.527†	95023.1	92999.2	0.5090 mg/L	0.5090 mg/L	22:03:31
1	Be 313.107†	346211.3	333164.8	0.0526 mg/L	0.0526 mg/L	22:03:25
1	Ca 315.886†	801828.3	780685.8	5.236 mg/L	5.236 mg/L	22:03:25
1	Cd 228.802†	22821.5	21906.1	0.2600 mg/L	0.2600 mg/L	22:03:31
1	Co 228.616†	37327.1	36871.2	0.5142 mg/L	0.5142 mg/L	22:03:31
1	Cr 267.716†	82976.8	79284.0	0.5211 mg/L	0.5211 mg/L	22:03:31
1	Cu 324.752†	98750.4	95160.1	0.5156 mg/L	0.5156 mg/L	22:03:31
1	Fe 238.204†	339828.4	331117.1	2.613 mg/L	2.613 mg/L	22:03:31
1	Fe 234.349†	110252.3	107495.6	2.602 mg/L	2.602 mg/L	22:03:31
1	Mg 279.077†	115124.7	112571.5	5.110 mg/L	5.110 mg/L	22:03:31
1	Mn 257.610†	538341.9	525242.1	0.5232 mg/L	0.5232 mg/L	22:03:25
1	Mo 202.031†	6989.3	6817.1	0.5163 mg/L	0.5163 mg/L	22:03:51
1	Na 330.237†	12972.9	11536.5	24.89 mg/L	24.89 mg/L	22:03:31
1	Ni 231.604†	30930.7	29862.2	0.5220 mg/L	0.5220 mg/L	22:03:31
1	Pb 220.353†	4649.0	4647.1	0.5129 mg/L	0.5129 mg/L	22:03:51
1	Sb 206.836†	1985.2	1859.1	0.5001 mg/L	0.5001 mg/L	22:03:51
1	Se 196.026†	762.2	747.7	1.051 mg/L	1.051 mg/L	22:03:51
1	Sn 189.927†	1769.4	1655.5	0.5260 mg/L	0.5260 mg/L	22:03:51
1	Ti 337.279†	407023.1	396743.0	0.5053 mg/L	0.5053 mg/L	22:03:25
1	Tl 190.801†	621.8	619.2	0.5140 mg/L	0.5140 mg/L	22:03:51
1	V 292.402†	132195.2	126754.3	0.5161 mg/L	0.5161 mg/L	22:03:31
1	Zn 213.857†	51029.9	49016.4	0.5209 mg/L	0.5209 mg/L	22:03:31
2	Y 360.073	2394028.1	2394028.1			22:03:58
2	Ag 328.068†	89628.7	87821.7	0.2583 mg/L	0.2583 mg/L	22:04:03
2	Al 237.313†	23382.3	23062.2	2.530 mg/L	2.530 mg/L	22:04:03
2	As 188.979†	621.8	607.7	0.5078 mg/L	0.5078 mg/L	22:04:23
2	B 182.528†	642.6	657.1	0.5271 mg/L	0.5271 mg/L	22:04:23
2	Ba 233.527†	94889.2	92474.0	0.5061 mg/L	0.5061 mg/L	22:04:03
2	Be 313.107†	346958.7	332453.4	0.0525 mg/L	0.0525 mg/L	22:03:58
2	Ca 315.886†	803460.9	778942.4	5.224 mg/L	5.224 mg/L	22:03:58
2	Cd 228.802†	22805.7	21795.9	0.2587 mg/L	0.2587 mg/L	22:04:03
2	Co 228.616†	37198.8	36591.2	0.5103 mg/L	0.5103 mg/L	22:04:03
2	Cr 267.716†	82690.6	78660.7	0.5170 mg/L	0.5170 mg/L	22:04:03
2	Cu 324.752†	98570.3	94574.5	0.5124 mg/L	0.5124 mg/L	22:04:03
2	Fe 238.204†	338863.6	328766.1	2.594 mg/L	2.594 mg/L	22:04:03
2	Fe 234.349†	110038.9	106829.9	2.585 mg/L	2.585 mg/L	22:04:03
2	Mg 279.077†	114696.5	111676.5	5.070 mg/L	5.070 mg/L	22:04:03
2	Mn 257.610†	539257.8	523896.3	0.5219 mg/L	0.5219 mg/L	22:03:58
2	Mo 202.031†	7007.6	6805.8	0.5154 mg/L	0.5154 mg/L	22:04:23
2	Na 330.237†	12927.4	11438.3	24.68 mg/L	24.68 mg/L	22:04:03
2	Ni 231.604†	30960.2	29762.4	0.5203 mg/L	0.5203 mg/L	22:04:03
2	Pb 220.353†	4687.8	4665.6	0.5149 mg/L	0.5149 mg/L	22:04:23
2	Sb 206.836†	1987.5	1853.0	0.4985 mg/L	0.4985 mg/L	22:04:23
2	Se 196.026†	760.8	743.1	1.044 mg/L	1.044 mg/L	22:04:23
2	Sn 189.927†	1776.9	1655.4	0.5260 mg/L	0.5260 mg/L	22:04:23
2	Ti 337.279†	407904.1	395909.0	0.5043 mg/L	0.5043 mg/L	22:03:58
2	Tl 190.801†	627.6	622.2	0.5166 mg/L	0.5166 mg/L	22:04:23
2	V 292.402†	131941.6	125958.2	0.5128 mg/L	0.5128 mg/L	22:04:03
2	Zn 213.857†	51104.5	48876.9	0.5194 mg/L	0.5194 mg/L	22:04:03

Mean Data: BF62302-BS1

Analyte	Mean Corrected		Calib		Std.Dev.	Sample		RSD
	Intensity	Conc.	Units	Conc.		Units	Std.Dev.	
Y 360.073	2388938.0						7198.50	0.30%
Ag 328.068†	88103.8	0.2592	mg/L	0.00117	0.2592	mg/L	0.00117	0.45%
Al 237.313†	23133.2	2.538	mg/L	0.0110	2.538	mg/L	0.0110	0.43%
As 188.979†	610.0	0.5097	mg/L	0.00269	0.5097	mg/L	0.00269	0.53%
B 182.528†	653.8	0.5245	mg/L	0.00369	0.5245	mg/L	0.00369	0.70%
Ba 233.527†	92736.6	0.5076	mg/L	0.00203	0.5076	mg/L	0.00203	0.40%
Be 313.107†	332809.1	0.0525	mg/L	0.00008	0.0525	mg/L	0.00008	0.15%
Ca 315.886†	779814.1	5.230	mg/L	0.0083	5.230	mg/L	0.0083	0.16%
Cd 228.802†	21851.0	0.2594	mg/L	0.00092	0.2594	mg/L	0.00092	0.35%
Co 228.616†	36731.2	0.5123	mg/L	0.00277	0.5123	mg/L	0.00277	0.54%
Cr 267.716†	78972.3	0.5191	mg/L	0.00290	0.5191	mg/L	0.00290	0.56%
Cu 324.752†	94867.3	0.5140	mg/L	0.00223	0.5140	mg/L	0.00223	0.43%
Fe 238.204†	329941.6	2.604	mg/L	0.0131	2.604	mg/L	0.0131	0.50%
Fe 234.349†	107162.7	2.593	mg/L	0.0114	2.593	mg/L	0.0114	0.44%



Mg 279.077†	112124.0	5.090 mg/L	0.0287	5.090 mg/L	0.0287	0.56%
Mn 257.610†	524569.2	0.5225 mg/L	0.00095	0.5225 mg/L	0.00095	0.18%
Mo 202.031†	6811.5	0.5158 mg/L	0.00061	0.5158 mg/L	0.00061	0.12%
Na 330.237†	11487.4	24.79 mg/L	0.146	24.79 mg/L	0.146	0.59%
Ni 231.604†	29812.3	0.5212 mg/L	0.00123	0.5212 mg/L	0.00123	0.24%
Pb 220.353†	4656.4	0.5139 mg/L	0.00143	0.5139 mg/L	0.00143	0.28%
Sb 206.836†	1856.1	0.4993 mg/L	0.00113	0.4993 mg/L	0.00113	0.23%
Se 196.026†	745.4	1.047 mg/L	0.0045	1.047 mg/L	0.0045	0.43%
Sn 189.927†	1655.5	0.5260 mg/L	0.00002	0.5260 mg/L	0.00002	0.00%
Ti 337.279†	396326.0	0.5048 mg/L	0.00075	0.5048 mg/L	0.00075	0.15%
Tl 190.801†	620.7	0.5153 mg/L	0.00183	0.5153 mg/L	0.00183	0.35%
V 292.402†	126356.3	0.5144 mg/L	0.00229	0.5144 mg/L	0.00229	0.45%
Zn 213.857†	48946.7	0.5202 mg/L	0.00105	0.5202 mg/L	0.00105	0.20%

Sequence No.: 49

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/23/2006 10:06:01 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2375257.0	2375257.0			22:07:34
1	Ag 328.068†	86508.9	85451.1	0.2514 mg/L	0.2514 mg/L	22:07:40
1	Al 237.313†	22924.5	22793.1	2.501 mg/L	2.501 mg/L	22:07:40
1	As 188.979†	619.8	610.6	0.5102 mg/L	0.5102 mg/L	22:08:00
1	B 182.528†	625.0	644.7	0.5172 mg/L	0.5172 mg/L	22:08:00
1	Ba 233.527†	93729.9	92066.7	0.5039 mg/L	0.5039 mg/L	22:07:40
1	Be 313.107†	330282.2	318765.7	0.0503 mg/L	0.0503 mg/L	22:07:34
1	Ca 315.886†	772861.4	755110.1	5.064 mg/L	5.064 mg/L	22:07:34
1	Cd 228.802†	21799.5	20984.4	0.2490 mg/L	0.2490 mg/L	22:07:40
1	Co 228.616†	36520.7	36212.3	0.5050 mg/L	0.5050 mg/L	22:07:40
1	Cr 267.716†	80420.2	77069.9	0.5066 mg/L	0.5066 mg/L	22:07:40
1	Cu 324.752†	96175.2	92983.5	0.5038 mg/L	0.5038 mg/L	22:07:40
1	Fe 238.204†	327139.8	319873.7	2.524 mg/L	2.524 mg/L	22:07:40
1	Fe 234.349†	106292.3	104001.5	2.517 mg/L	2.517 mg/L	22:07:40
1	Mg 279.077†	113119.8	111012.2	5.040 mg/L	5.040 mg/L	22:07:40
1	Mn 257.610†	518701.2	507882.0	0.5059 mg/L	0.5059 mg/L	22:07:34
1	Mo 202.031†	6862.0	6717.0	0.5087 mg/L	0.5087 mg/L	22:08:00
1	Na 330.237†	12515.0	11133.3	24.04 mg/L	24.04 mg/L	22:07:40
1	Ni 231.604†	29979.0	29038.2	0.5076 mg/L	0.5076 mg/L	22:07:40
1	Pb 220.353†	4571.6	4587.7	0.5064 mg/L	0.5064 mg/L	22:08:00
1	Sb 206.836†	1953.2	1834.7	0.4936 mg/L	0.4936 mg/L	22:08:00
1	Se 196.026†	732.4	721.1	1.013 mg/L	1.013 mg/L	22:08:00
1	Sn 189.927†	1707.0	1600.6	0.5085 mg/L	0.5085 mg/L	22:08:00
1	Ti 337.279†	404031.4	395247.5	0.5034 mg/L	0.5034 mg/L	22:07:34
1	Tl 190.801†	615.0	614.8	0.5102 mg/L	0.5102 mg/L	22:08:00
1	V 292.402†	129717.0	124791.0	0.5080 mg/L	0.5080 mg/L	22:07:40
1	Zn 213.857†	48889.2	47097.2	0.5005 mg/L	0.5005 mg/L	22:07:40
2	Y 360.073	2395111.8	2395111.8			22:08:07
2	Ag 328.068†	86358.9	84601.8	0.2489 mg/L	0.2489 mg/L	22:08:13
2	Al 237.313†	22871.2	22554.9	2.475 mg/L	2.475 mg/L	22:08:13
2	As 188.979†	621.4	607.1	0.5073 mg/L	0.5073 mg/L	22:08:33
2	B 182.528†	625.1	639.8	0.5132 mg/L	0.5132 mg/L	22:08:33
2	Ba 233.527†	93701.5	91277.0	0.4996 mg/L	0.4996 mg/L	22:08:13
2	Be 313.107†	332631.0	318365.0	0.0502 mg/L	0.0502 mg/L	22:08:07
2	Ca 315.886†	776822.4	752679.1	5.048 mg/L	5.048 mg/L	22:08:07
2	Cd 228.802†	21776.9	20785.1	0.2467 mg/L	0.2467 mg/L	22:08:13
2	Co 228.616†	36413.7	35811.2	0.4994 mg/L	0.4994 mg/L	22:08:13
2	Cr 267.716†	80280.1	76279.8	0.5014 mg/L	0.5014 mg/L	22:08:13
2	Cu 324.752†	95173.8	91227.5	0.4944 mg/L	0.4944 mg/L	22:08:13
2	Fe 238.204†	326761.7	316846.3	2.500 mg/L	2.500 mg/L	22:08:13
2	Fe 234.349†	106083.1	102933.8	2.491 mg/L	2.491 mg/L	22:08:13
2	Mg 279.077†	113153.7	110125.4	5.000 mg/L	5.000 mg/L	22:08:13
2	Mn 257.610†	522119.6	506989.7	0.5050 mg/L	0.5050 mg/L	22:08:07
2	Mo 202.031†	6866.1	6665.2	0.5047 mg/L	0.5047 mg/L	22:08:33
2	Na 330.237†	12530.6	11046.7	23.86 mg/L	23.86 mg/L	22:08:13
2	Ni 231.604†	29949.7	28766.0	0.5028 mg/L	0.5028 mg/L	22:08:13

2	Pb 220.353†	4585.8	4564.3	0.5038 mg/L	0.5038 mg/L	22:08:33
2	Sb 206.836†	1967.9	1833.1	0.4932 mg/L	0.4932 mg/L	22:08:33
2	Se 196.026†	732.3	715.0	1.005 mg/L	1.005 mg/L	22:08:33
2	Sn 189.927†	1704.9	1584.6	0.5035 mg/L	0.5035 mg/L	22:08:33
2	Ti 337.279†	407694.2	395525.2	0.5038 mg/L	0.5038 mg/L	22:08:07
2	Tl 190.801†	616.2	610.8	0.5071 mg/L	0.5071 mg/L	22:08:33
2	V 292.402†	129622.2	123644.3	0.5033 mg/L	0.5033 mg/L	22:08:13
2	Zn 213.857†	48793.5	46606.7	0.4953 mg/L	0.4953 mg/L	22:08:13

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2385184.4				14039.48	0.59%
Ag 328.068†	85026.5	0.2501 mg/L	0.00176	0.2501 mg/L	0.00176	0.70%
QC value within limits for Ag 328.068 Recovery = 100.05%						
Al 237.313†	22674.0	2.488 mg/L	0.0185	2.488 mg/L	0.0185	0.74%
QC value within limits for Al 237.313 Recovery = 99.52%						
As 188.979†	608.8	0.5087 mg/L	0.00207	0.5087 mg/L	0.00207	0.41%
QC value within limits for As 188.979 Recovery = 101.75%						
B 182.528†	642.2	0.5152 mg/L	0.00283	0.5152 mg/L	0.00283	0.55%
QC value within limits for B 182.528 Recovery = 103.04%						
Ba 233.527†	91671.8	0.5018 mg/L	0.00306	0.5018 mg/L	0.00306	0.61%
QC value within limits for Ba 233.527 Recovery = 100.35%						
Be 313.107†	318565.4	0.0503 mg/L	0.00005	0.0503 mg/L	0.00005	0.09%
QC value within limits for Be 313.107 Recovery = 100.52%						
Ca 315.886†	753894.6	5.056 mg/L	0.0115	5.056 mg/L	0.0115	0.23%
QC value within limits for Ca 315.886 Recovery = 101.12%						
Cd 228.802†	20884.8	0.2478 mg/L	0.00167	0.2478 mg/L	0.00167	0.67%
QC value within limits for Cd 228.802 Recovery = 99.14%						
Co 228.616†	36011.7	0.5022 mg/L	0.00397	0.5022 mg/L	0.00397	0.79%
QC value within limits for Co 228.616 Recovery = 100.44%						
Cr 267.716†	76674.8	0.5040 mg/L	0.00368	0.5040 mg/L	0.00368	0.73%
QC value within limits for Cr 267.716 Recovery = 100.79%						
Cu 324.752†	92105.5	0.4991 mg/L	0.00669	0.4991 mg/L	0.00669	1.34%
QC value within limits for Cu 324.752 Recovery = 99.82%						
Fe 238.204†	318360.0	2.512 mg/L	0.0169	2.512 mg/L	0.0169	0.67%
QC value within limits for Fe 238.204 Recovery = 100.49%						
Fe 234.349†	103467.7	2.504 mg/L	0.0183	2.504 mg/L	0.0183	0.73%
QC value within limits for Fe 234.349 Recovery = 100.16%						
Mg 279.077†	110568.8	5.020 mg/L	0.0284	5.020 mg/L	0.0284	0.57%
QC value within limits for Mg 279.077 Recovery = 100.39%						
Mn 257.610†	507435.9	0.5054 mg/L	0.00063	0.5054 mg/L	0.00063	0.12%
QC value within limits for Mn 257.610 Recovery = 101.08%						
Mo 202.031†	6691.1	0.5067 mg/L	0.00278	0.5067 mg/L	0.00278	0.55%
QC value within limits for Mo 202.031 Recovery = 101.34%						
Na 330.237†	11090.0	23.95 mg/L	0.129	23.95 mg/L	0.129	0.54%
QC value within limits for Na 330.237 Recovery = 95.80%						
Ni 231.604†	28902.1	0.5052 mg/L	0.00337	0.5052 mg/L	0.00337	0.67%
QC value within limits for Ni 231.604 Recovery = 101.05%						
Pb 220.353†	4576.0	0.5051 mg/L	0.00183	0.5051 mg/L	0.00183	0.36%
QC value within limits for Pb 220.353 Recovery = 101.01%						
Sb 206.836†	1833.9	0.4934 mg/L	0.00027	0.4934 mg/L	0.00027	0.06%
QC value within limits for Sb 206.836 Recovery = 98.68%						
Se 196.026†	718.1	1.009 mg/L	0.0061	1.009 mg/L	0.0061	0.60%
QC value within limits for Se 196.026 Recovery = 100.90%						
Sn 189.927†	1592.6	0.5060 mg/L	0.00359	0.5060 mg/L	0.00359	0.71%
QC value within limits for Sn 189.927 Recovery = 101.20%						
Ti 337.279†	395386.3	0.5036 mg/L	0.00025	0.5036 mg/L	0.00025	0.05%
QC value within limits for Ti 337.279 Recovery = 100.72%						
Tl 190.801†	612.8	0.5087 mg/L	0.00223	0.5087 mg/L	0.00223	0.44%
QC value within limits for Tl 190.801 Recovery = 101.73%						
V 292.402†	124217.6	0.5057 mg/L	0.00330	0.5057 mg/L	0.00330	0.65%
QC value within limits for V 292.402 Recovery = 101.14%						
Zn 213.857†	46851.9	0.4979 mg/L	0.00368	0.4979 mg/L	0.00368	0.74%
QC value within limits for Zn 213.857 Recovery = 99.58%						

All analyte(s) passed QC.

Sequence No.: 50  
Sample ID: ICCB

Autosampler Location: 1  
Date Collected: 6/23/2006 10:10:10 PM

Analyst:  
Initial Sample Wt:  
Dilution:

Data Type: Original  
Initial Sample Vol:  
Sample Prep Vol:

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Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2365399.0	2365399.0			22:11:41
1	Ag 328.068†	-512.8	101.2	0.0010 mg/L	0.0010 mg/L	22:11:46
1	Al 237.313†	-276.8	36.9	0.0109 mg/L	0.0109 mg/L	22:12:07
1	As 188.979†	0.8	3.5	0.0005 mg/L	0.0005 mg/L	22:12:07
1	B 182.528†	-7.4	24.5	0.0190 mg/L	0.0190 mg/L	22:12:07
1	Ba 233.527†	-128.6	13.1	0.0000 mg/L	0.0000 mg/L	22:12:07
1	Be 313.107†	5202.0	-40.1	0.0000 mg/L	0.0000 mg/L	22:11:46
1	Ca 315.886†	3179.1	245.9	-0.0058 mg/L	-0.0058 mg/L	22:11:46
1	Cd 228.802†	383.0	-18.6	0.0004 mg/L	0.0004 mg/L	22:12:07
1	Co 228.616†	-366.8	32.8	-0.0005 mg/L	-0.0005 mg/L	22:12:07
1	Cr 267.716†	1794.9	-35.7	-0.0008 mg/L	-0.0008 mg/L	22:11:46
1	Cu 324.752†	1516.5	151.8	0.0035 mg/L	0.0035 mg/L	22:11:46
1	Fe 238.204†	726.2	-258.3	-0.0031 mg/L	-0.0031 mg/L	22:12:07
1	Fe 234.349†	166.8	-82.0	-0.0011 mg/L	-0.0011 mg/L	22:12:07
1	Mg 279.077†	62.7	130.0	0.0121 mg/L	0.0121 mg/L	22:11:46
1	Mn 257.610†	941.7	85.6	-0.0013 mg/L	-0.0013 mg/L	22:11:46
1	Mo 202.031†	49.6	35.8	0.0018 mg/L	0.0018 mg/L	22:12:07
1	Na 330.237†	1166.2	7.5	0.6337 mg/L	0.6337 mg/L	22:11:46
1	Ni 231.604†	349.3	-20.2	-0.0012 mg/L	-0.0012 mg/L	22:12:07
1	Pb 220.353†	-104.2	1.4	0.0005 mg/L	0.0005 mg/L	22:12:07
1	Sb 206.836†	76.0	-6.1	-0.0011 mg/L	-0.0011 mg/L	22:12:07
1	Se 196.026†	-4.8	-2.0	-0.0006 mg/L	-0.0006 mg/L	22:12:07
1	Sn 189.927†	49.2	-25.1	-0.0094 mg/L	-0.0094 mg/L	22:12:07
1	Ti 337.279†	1181.0	150.9	0.0006 mg/L	0.0006 mg/L	22:11:46
1	Tl 190.801†	6.3	17.7	0.0168 mg/L	0.0168 mg/L	22:12:07
1	V 292.402†	2454.7	-13.3	0.0006 mg/L	0.0006 mg/L	22:11:46
1	Zn 213.857†	891.3	26.3	0.0005 mg/L	0.0005 mg/L	22:12:07
2	Y 360.073	2370154.6	2370154.6			22:12:12
2	Ag 328.068†	-589.3	27.0	0.0008 mg/L	0.0008 mg/L	22:12:18
2	Al 237.313†	-300.5	14.2	0.0084 mg/L	0.0084 mg/L	22:12:38
2	As 188.979†	0.4	3.0	0.0001 mg/L	0.0001 mg/L	22:12:38
2	B 182.528†	-13.1	18.9	0.0145 mg/L	0.0145 mg/L	22:12:38
2	Ba 233.527†	-100.4	41.0	0.0001 mg/L	0.0001 mg/L	22:12:38
2	Be 313.107†	5176.3	-75.6	0.0000 mg/L	0.0000 mg/L	22:12:18
2	Ca 315.886†	3383.7	440.8	-0.0045 mg/L	-0.0045 mg/L	22:12:18
2	Cd 228.802†	381.8	-20.6	0.0004 mg/L	0.0004 mg/L	22:12:38
2	Co 228.616†	-389.4	11.3	-0.0008 mg/L	-0.0008 mg/L	22:12:38
2	Cr 267.716†	1841.5	6.6	-0.0005 mg/L	-0.0005 mg/L	22:12:18
2	Cu 324.752†	1523.2	155.4	0.0035 mg/L	0.0035 mg/L	22:12:18
2	Fe 238.204†	689.9	-295.4	-0.0034 mg/L	-0.0034 mg/L	22:12:38
2	Fe 234.349†	169.9	-79.3	-0.0010 mg/L	-0.0010 mg/L	22:12:38
2	Mg 279.077†	61.8	129.0	0.0120 mg/L	0.0120 mg/L	22:12:18
2	Mn 257.610†	974.4	115.9	-0.0012 mg/L	-0.0012 mg/L	22:12:18
2	Mo 202.031†	38.6	24.9	0.0009 mg/L	0.0009 mg/L	22:12:38
2	Na 330.237†	1131.2	-29.2	0.5565 mg/L	0.5565 mg/L	22:12:18
2	Ni 231.604†	351.2	-19.0	-0.0012 mg/L	-0.0012 mg/L	22:12:38
2	Pb 220.353†	-126.9	-20.7	-0.0019 mg/L	-0.0019 mg/L	22:12:38
2	Sb 206.836†	68.4	-13.7	-0.0032 mg/L	-0.0032 mg/L	22:12:38
2	Se 196.026†	-1.0	1.8	0.0046 mg/L	0.0046 mg/L	22:12:38
2	Sn 189.927†	53.0	-21.5	-0.0082 mg/L	-0.0082 mg/L	22:12:38
2	Ti 337.279†	1146.6	114.8	0.0006 mg/L	0.0006 mg/L	22:12:18
2	Tl 190.801†	6.4	17.8	0.0169 mg/L	0.0169 mg/L	22:12:38
2	V 292.402†	2382.9	-88.7	0.0003 mg/L	0.0003 mg/L	22:12:18
2	Zn 213.857†	902.6	35.6	0.0006 mg/L	0.0006 mg/L	22:12:38

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Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2367776.8				3362.68	0.14%
Ag 328.068†	64.1	0.0009 mg/L	0.00015	0.0009 mg/L	0.00015	16.37%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	25.6	0.0097 mg/L	0.00177	0.0097 mg/L	0.00177	18.33%

QC value within limits for Al 237.313 Recovery = Not calculated							
As	188.979†	3.3	0.0003 mg/L	0.00026	0.0003 mg/L	0.00026	77.54%
QC value within limits for As 188.979 Recovery = Not calculated							
B	182.528†	21.7	0.0168 mg/L	0.00319	0.0168 mg/L	0.00319	19.05%
QC value within limits for B 182.528 Recovery = Not calculated							
Ba	233.527†	27.0	0.0001 mg/L	0.00011	0.0001 mg/L	0.00011	163.90%
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be	313.107†	-57.9	0.0000 mg/L	0.00000	0.0000 mg/L	0.00000	15.11%
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca	315.886†	343.3	-0.0051 mg/L	0.00092	-0.0051 mg/L	0.00092	18.04%
QC value within limits for Ca 315.886 Recovery = Not calculated							
Cd	228.802†	-19.6	0.0004 mg/L	0.00002	0.0004 mg/L	0.00002	4.00%
QC value within limits for Cd 228.802 Recovery = Not calculated							
Co	228.616†	22.1	-0.0007 mg/L	0.00021	-0.0007 mg/L	0.00021	31.26%
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr	267.716†	-14.6	-0.0006 mg/L	0.00020	-0.0006 mg/L	0.00020	30.28%
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu	324.752†	153.6	0.0035 mg/L	0.00001	0.0035 mg/L	0.00001	0.39%
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe	238.204†	-276.8	-0.0032 mg/L	0.00021	-0.0032 mg/L	0.00021	6.38%
QC value within limits for Fe 238.204 Recovery = Not calculated							
Fe	234.349†	-80.6	-0.0011 mg/L	0.00005	-0.0011 mg/L	0.00005	4.28%
QC value within limits for Fe 234.349 Recovery = Not calculated							
Mg	279.077†	129.5	0.0120 mg/L	0.00003	0.0120 mg/L	0.00003	0.26%
QC value within limits for Mg 279.077 Recovery = Not calculated							
Mn	257.610†	100.8	-0.0013 mg/L	0.00002	-0.0013 mg/L	0.00002	1.70%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	30.4	0.0013 mg/L	0.00059	0.0013 mg/L	0.00059	43.84%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	330.237†	-10.8	0.5951 mg/L	0.05457	0.5951 mg/L	0.05457	9.17%
QC value within limits for Na 330.237 Recovery = Not calculated							
Ni	231.604†	-19.6	-0.0012 mg/L	0.00002	-0.0012 mg/L	0.00002	1.22%
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb	220.353†	-9.7	-0.0007 mg/L	0.00172	-0.0007 mg/L	0.00172	244.29%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb	206.836†	-9.9	-0.0021 mg/L	0.00147	-0.0021 mg/L	0.00147	68.85%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	-0.1	0.0020 mg/L	0.00370	0.0020 mg/L	0.00370	186.05%
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn	189.927†	-23.3	-0.0088 mg/L	0.00082	-0.0088 mg/L	0.00082	9.33%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Ti	337.279†	132.9	0.0006 mg/L	0.00003	0.0006 mg/L	0.00003	5.30%
QC value within limits for Ti 337.279 Recovery = Not calculated							
Tl	190.801†	17.8	0.0168 mg/L	0.00006	0.0168 mg/L	0.00006	0.33%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V	292.402†	-51.0	0.0005 mg/L	0.00021	0.0005 mg/L	0.00021	45.66%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	30.9	0.0005 mg/L	0.00007	0.0005 mg/L	0.00007	13.38%
QC value within limits for Zn 213.857 Recovery = Not calculated							
All analyte(s) passed QC.							

Sequence No.: 51  
 Sample ID: BF62302-BSD1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 39  
 Date Collected: 6/23/2006 10:14:14 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

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 Replicate Data: BF62302-BSD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2413136.5	2413136.5			22:15:48
1	Ag 328.068†	89629.4	87131.7	0.2563 mg/L	0.2563 mg/L	22:15:53
1	Al 237.313†	23326.1	22827.9	2.505 mg/L	2.505 mg/L	22:15:53
1	As 188.979†	621.1	602.2	0.5032 mg/L	0.5032 mg/L	22:16:13
1	B 182.528†	640.5	650.1	0.5215 mg/L	0.5215 mg/L	22:16:13
1	Ba 233.527†	94825.2	91681.1	0.5018 mg/L	0.5018 mg/L	22:15:53
1	Be 313.107†	347455.3	330259.4	0.0521 mg/L	0.0521 mg/L	22:15:48
1	Ca 315.886†	803309.6	772605.4	5.182 mg/L	5.182 mg/L	22:15:48
1	Cd 228.802†	22688.0	21506.5	0.2553 mg/L	0.2553 mg/L	22:15:53

1	Co 228.616†	37115.9	36224.6	0.5052 mg/L	0.5052 mg/L	22:15:53
1	Cr 267.716†	82630.2	77965.2	0.5125 mg/L	0.5125 mg/L	22:15:53
1	Cu 324.752†	99098.3	94324.7	0.5111 mg/L	0.5111 mg/L	22:15:53
1	Fe 238.204†	339434.1	326705.9	2.578 mg/L	2.578 mg/L	22:15:53
1	Fe 234.349†	110294.0	106228.2	2.571 mg/L	2.571 mg/L	22:15:53
1	Mg 279.077†	114422.2	110528.0	5.018 mg/L	5.018 mg/L	22:15:53
1	Mn 257.610†	536808.3	517376.5	0.5153 mg/L	0.5153 mg/L	22:15:48
1	Mo 202.031†	7011.1	6755.3	0.5116 mg/L	0.5116 mg/L	22:16:13
1	Na 330.237†	12833.9	11248.4	24.28 mg/L	24.28 mg/L	22:15:53
1	Ni 231.604†	31000.6	29562.9	0.5168 mg/L	0.5168 mg/L	22:15:53
1	Pb 220.353†	4671.3	4613.5	0.5092 mg/L	0.5092 mg/L	22:16:13
1	Sb 206.836†	1990.6	1840.7	0.4952 mg/L	0.4952 mg/L	22:16:13
1	Se 196.026†	763.7	740.0	1.040 mg/L	1.040 mg/L	22:16:13
1	Sn 189.927†	1765.6	1630.9	0.5182 mg/L	0.5182 mg/L	22:16:13
1	Ti 337.279†	407456.2	392333.5	0.4997 mg/L	0.4997 mg/L	22:15:48
1	Tl 190.801†	628.9	618.7	0.5136 mg/L	0.5136 mg/L	22:16:13
1	V 292.402†	131938.0	124938.1	0.5087 mg/L	0.5087 mg/L	22:15:53
1	Zn 213.857†	50870.8	48257.6	0.5128 mg/L	0.5128 mg/L	22:15:53
2	Y 360.073	2392379.8	2392379.8			22:16:20
2	Ag 328.068†	89250.7	87513.7	0.2574 mg/L	0.2574 mg/L	22:16:26
2	Al 237.313†	23234.0	22933.5	2.516 mg/L	2.516 mg/L	22:16:26
2	As 188.979†	624.8	611.1	0.5106 mg/L	0.5106 mg/L	22:16:46
2	B 182.528†	637.6	652.6	0.5235 mg/L	0.5235 mg/L	22:16:46
2	Ba 233.527†	94520.6	92178.7	0.5045 mg/L	0.5045 mg/L	22:16:26
2	Be 313.107†	345644.5	331406.3	0.0523 mg/L	0.0523 mg/L	22:16:20
2	Ca 315.886†	799734.2	775852.2	5.203 mg/L	5.203 mg/L	22:16:20
2	Cd 228.802†	22651.0	21660.5	0.2571 mg/L	0.2571 mg/L	22:16:26
2	Co 228.616†	37052.6	36473.8	0.5087 mg/L	0.5087 mg/L	22:16:26
2	Cr 267.716†	82424.1	78456.7	0.5157 mg/L	0.5157 mg/L	22:16:26
2	Cu 324.752†	98959.0	95019.1	0.5148 mg/L	0.5148 mg/L	22:16:26
2	Fe 238.204†	338705.7	328839.6	2.595 mg/L	2.595 mg/L	22:16:26
2	Fe 234.349†	109928.9	106796.5	2.585 mg/L	2.585 mg/L	22:16:26
2	Mg 279.077†	114328.1	111394.7	5.057 mg/L	5.057 mg/L	22:16:26
2	Mn 257.610†	533807.2	518950.3	0.5169 mg/L	0.5169 mg/L	22:16:20
2	Mo 202.031†	6974.4	6778.2	0.5133 mg/L	0.5133 mg/L	22:16:46
2	Na 330.237†	12717.9	11243.0	24.27 mg/L	24.27 mg/L	22:16:26
2	Ni 231.604†	30879.2	29704.4	0.5193 mg/L	0.5193 mg/L	22:16:26
2	Pb 220.353†	4675.0	4656.3	0.5139 mg/L	0.5139 mg/L	22:16:46
2	Sb 206.836†	1987.0	1853.9	0.4987 mg/L	0.4987 mg/L	22:16:46
2	Se 196.026†	755.5	738.4	1.038 mg/L	1.038 mg/L	22:16:46
2	Sn 189.927†	1763.2	1643.4	0.5221 mg/L	0.5221 mg/L	22:16:46
2	Ti 337.279†	404823.7	393182.9	0.5008 mg/L	0.5008 mg/L	22:16:20
2	Tl 190.801†	634.2	629.1	0.5222 mg/L	0.5222 mg/L	22:16:46
2	V 292.402†	131567.9	125682.8	0.5117 mg/L	0.5117 mg/L	22:16:26
2	Zn 213.857†	50637.0	48455.9	0.5149 mg/L	0.5149 mg/L	22:16:26

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Mean Data: BF62302-BSD1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2402758.1						14677.18	0.61%
Ag 328.068†	87322.7	0.2569	mg/L	0.00079	0.2569	mg/L	0.00079	0.31%
Al 237.313†	22880.7	2.510	mg/L	0.0082	2.510	mg/L	0.0082	0.33%
As 188.979†	606.7	0.5069	mg/L	0.00524	0.5069	mg/L	0.00524	1.03%
B 182.528†	651.4	0.5225	mg/L	0.00143	0.5225	mg/L	0.00143	0.27%
Ba 233.527†	91929.9	0.5032	mg/L	0.00193	0.5032	mg/L	0.00193	0.38%
Be 313.107†	330832.9	0.0522	mg/L	0.00013	0.0522	mg/L	0.00013	0.25%
Ca 315.886†	774228.8	5.193	mg/L	0.0154	5.193	mg/L	0.0154	0.30%
Cd 228.802†	21583.5	0.2562	mg/L	0.00128	0.2562	mg/L	0.00128	0.50%
Co 228.616†	36349.2	0.5069	mg/L	0.00247	0.5069	mg/L	0.00247	0.49%
Cr 267.716†	78210.9	0.5141	mg/L	0.00229	0.5141	mg/L	0.00229	0.44%
Cu 324.752†	94671.9	0.5129	mg/L	0.00265	0.5129	mg/L	0.00265	0.52%
Fe 238.204†	327772.8	2.587	mg/L	0.0119	2.587	mg/L	0.0119	0.46%
Fe 234.349†	106512.3	2.578	mg/L	0.0097	2.578	mg/L	0.0097	0.38%
Mg 279.077†	110961.3	5.037	mg/L	0.0278	5.037	mg/L	0.0278	0.55%
Mn 257.610†	518163.4	0.5161	mg/L	0.00111	0.5161	mg/L	0.00111	0.22%
Mo 202.031†	6766.8	0.5125	mg/L	0.00123	0.5125	mg/L	0.00123	0.24%
Na 330.237†	11245.7	24.28	mg/L	0.008	24.28	mg/L	0.008	0.03%
Ni 231.604†	29633.6	0.5180	mg/L	0.00175	0.5180	mg/L	0.00175	0.34%
Pb 220.353†	4634.9	0.5116	mg/L	0.00333	0.5116	mg/L	0.00333	0.65%
Sb 206.836†	1847.3	0.4969	mg/L	0.00250	0.4969	mg/L	0.00250	0.50%

Se 196.026†	739.2	1.039 mg/L	0.0016	1.039 mg/L	0.0016	0.15%
Sn 189.927†	1637.1	0.5201 mg/L	0.00281	0.5201 mg/L	0.00281	0.54%
Ti 337.279†	392758.2	0.5003 mg/L	0.00076	0.5003 mg/L	0.00076	0.15%
Tl 190.801†	623.9	0.5179 mg/L	0.00608	0.5179 mg/L	0.00608	1.17%
V 292.402†	125310.4	0.5102 mg/L	0.00214	0.5102 mg/L	0.00214	0.42%
Zn 213.857†	48356.8	0.5139 mg/L	0.00149	0.5139 mg/L	0.00149	0.29%

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Duplicate Check: BF62302-BSD1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.2592	0.2569	0.001	mg/L	0.9
Al 237.313	2.538	2.510	0.008	mg/L	1.1
As 188.979	0.5097	0.5069	0.005	mg/L	0.6
B 182.528	0.5245	0.5225	0.001	mg/L	0.4
Ba 233.527	0.5076	0.5032	0.002	mg/L	0.9
Be 313.107	0.0525	0.0522	0.000	mg/L	0.6
Ca 315.886	5.230	5.193	0.015	mg/L	0.7
Cd 228.802	0.2594	0.2562	0.001	mg/L	1.2
Co 228.616	0.5123	0.5069	0.002	mg/L	1.0
Cr 267.716	0.5191	0.5141	0.002	mg/L	1.0
Cu 324.752	0.5140	0.5129	0.003	mg/L	0.2
Fe 238.204	2.604	2.587	0.012	mg/L	0.7
Fe 234.349	2.593	2.578	0.010	mg/L	0.6
Mg 279.077	5.090	5.037	0.028	mg/L	1.0
Mn 257.610	0.5225	0.5161	0.001	mg/L	1.2
Mo 202.031	0.5158	0.5125	0.001	mg/L	0.7
Na 330.237	24.79	24.28	0.008	mg/L	2.1
Ni 231.604	0.5212	0.5180	0.002	mg/L	0.6
Pb 220.353	0.5139	0.5116	0.003	mg/L	0.5
Sb 206.836	0.4993	0.4969	0.003	mg/L	0.5
Se 196.026	1.047	1.039	0.002	mg/L	0.8
Sn 189.927	0.5260	0.5201	0.003	mg/L	1.1
Ti 337.279	0.5048	0.5003	0.001	mg/L	0.9
Tl 190.801	0.5153	0.5179	0.006	mg/L	0.5
V 292.402	0.5144	0.5102	0.002	mg/L	0.8
Zn 213.857	0.5202	0.5139	0.001	mg/L	1.2

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Sequence No.: 52

Sample ID: 0606272-01DIS

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 40

Date Collected: 6/23/2006 10:18:23 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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Replicate Data: 0606272-01DIS

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2361489.0	2361489.0			22:19:56
1	Ag 328.068†	-601.1	13.3	0.0008 mg/L	0.0008 mg/L	22:20:02
1	Al 237.313†	-259.9	53.2	0.0057 mg/L	0.0057 mg/L	22:20:22
1	As 188.979†	5.6	8.2	0.0045 mg/L	0.0045 mg/L	22:20:22
1	B 182.528†	47.1	78.3	0.0622 mg/L	0.0622 mg/L	22:20:22
1	Ba 233.527†	5643.0	5706.4	0.0312 mg/L	0.0312 mg/L	22:20:22
1	Be 313.107†	5177.9	-55.4	0.0000 mg/L	0.0000 mg/L	22:20:02
1	Ca 315.886†	3698112.9	3645239.2	24.47 mg/L	24.47 mg/L	22:19:56
1	Cd 228.802†	400.8	-0.4	0.0006 mg/L	0.0006 mg/L	22:20:22
1	Co 228.616†	-330.4	68.1	0.0000 mg/L	0.0000 mg/L	22:20:22
1	Cr 267.716†	1793.3	-34.4	-0.0009 mg/L	-0.0009 mg/L	22:20:22
1	Cu 324.752†	1783.2	417.4	0.0049 mg/L	0.0049 mg/L	22:20:02
1	Fe 238.204†	22640.5	21361.0	0.1675 mg/L	0.1675 mg/L	22:20:02
1	Fe 234.349†	7639.6	7290.1	0.1776 mg/L	0.1776 mg/L	22:20:22
1	Mg 279.077†	98265.7	97005.6	4.410 mg/L	4.410 mg/L	22:20:02
1	Mn 257.610†	521509.1	513617.9	0.5115 mg/L	0.5115 mg/L	22:19:56
1	Mo 202.031†	45.8	32.1	0.0015 mg/L	0.0015 mg/L	22:20:22
1	Na 330.237†	19627.5	18221.2	38.96 mg/L	38.96 mg/L	22:20:02
1	Ni 231.604†	460.0	89.6	0.0007 mg/L	0.0007 mg/L	22:20:22
1	Pb 220.353†	-79.2	25.9	0.0032 mg/L	0.0032 mg/L	22:20:22
1	Sb 206.836†	77.2	-4.8	-0.0007 mg/L	-0.0007 mg/L	22:20:22

1	Se 196.026†	-1.1	1.7	0.0044 mg/L	0.0044 mg/L	22:20:22
1	Sn 189.927†	136.3	60.8	0.0179 mg/L	0.0179 mg/L	22:20:22
1	Ti 337.279†	1139.3	111.7	0.0006 mg/L	0.0006 mg/L	22:20:02
1	Tl 190.801†	1.1	12.7	0.0198 mg/L	0.0198 mg/L	22:20:22
1	V 292.402†	2748.7	280.8	0.0018 mg/L	0.0018 mg/L	22:20:02
1	Zn 213.857†	2451.0	1566.3	0.0169 mg/L	0.0169 mg/L	22:20:22
2	Y 360.073	2409642.1	2409642.1			22:20:28
2	Ag 328.068†	-473.8	148.2	0.0012 mg/L	0.0012 mg/L	22:20:33
2	Al 237.313†	-255.1	62.9	0.0069 mg/L	0.0069 mg/L	22:20:54
2	As 188.979†	4.2	6.8	0.0033 mg/L	0.0033 mg/L	22:20:54
2	B 182.528†	55.3	85.3	0.0678 mg/L	0.0678 mg/L	22:20:54
2	Ba 233.527†	5677.9	5628.9	0.0308 mg/L	0.0308 mg/L	22:20:54
2	Be 313.107†	5196.2	-139.8	0.0000 mg/L	0.0000 mg/L	22:20:33
2	Ca 315.886†	3746570.6	3619184.4	24.30 mg/L	24.30 mg/L	22:20:28
2	Cd 228.802†	391.0	-17.8	0.0004 mg/L	0.0004 mg/L	22:20:54
2	Co 228.616†	-337.0	68.2	0.0000 mg/L	0.0000 mg/L	22:20:54
2	Cr 267.716†	1793.3	-69.7	-0.0012 mg/L	-0.0012 mg/L	22:20:54
2	Cu 324.752†	1778.0	377.1	0.0047 mg/L	0.0047 mg/L	22:20:33
2	Fe 238.204†	22640.6	20914.9	0.1640 mg/L	0.1640 mg/L	22:20:33
2	Fe 234.349†	7659.4	7158.6	0.1744 mg/L	0.1744 mg/L	22:20:54
2	Mg 279.077†	98962.1	95741.8	4.352 mg/L	4.352 mg/L	22:20:33
2	Mn 257.610†	528817.2	510402.5	0.5083 mg/L	0.5083 mg/L	22:20:28
2	Mo 202.031†	39.4	25.0	0.0009 mg/L	0.0009 mg/L	22:20:54
2	Na 330.237†	19662.6	17868.2	38.22 mg/L	38.22 mg/L	22:20:33
2	Ni 231.604†	458.9	79.5	0.0005 mg/L	0.0005 mg/L	22:20:54
2	Pb 220.353†	-94.7	12.5	0.0017 mg/L	0.0017 mg/L	22:20:54
2	Sb 206.836†	82.0	-1.7	0.0001 mg/L	0.0001 mg/L	22:20:54
2	Se 196.026†	1.3	4.0	0.0078 mg/L	0.0078 mg/L	22:20:54
2	Sn 189.927†	123.8	46.1	0.0132 mg/L	0.0132 mg/L	22:20:54
2	Ti 337.279†	1160.2	109.4	0.0006 mg/L	0.0006 mg/L	22:20:33
2	Tl 190.801†	-10.7	1.2	0.0103 mg/L	0.0103 mg/L	22:20:54
2	V 292.402†	2669.5	150.0	0.0013 mg/L	0.0013 mg/L	22:20:33
2	Zn 213.857†	2434.2	1501.8	0.0162 mg/L	0.0162 mg/L	22:20:54

SW 6/24/06

Mean Data: 0606272-01DIS 0606872-01DIS

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 360.073	2385565.5					34049.33	1.43%
Ag 328.068†	80.7	0.0010	mg/L	0.00028	0.0010	0.00028	28.29%
Al 237.313†	58.1	0.0063	mg/L	0.00082	0.0063	0.00082	13.01%
As 188.979†	7.5	0.0039	mg/L	0.00085	0.0039	0.00085	21.86%
B 182.528†	81.8	0.0650	mg/L	0.00398	0.0650	0.00398	6.12%
Ba 233.527†	5667.7	0.0310	mg/L	0.00030	0.0310	0.00030	0.97%
Be 313.107†	-97.6	0.0000	mg/L	0.00001	0.0000	0.00001	29.58%
Ca 315.886†	3632211.8	24.39	mg/L	0.124	24.39	0.124	0.51%
Cd 228.802†	-9.1	0.0005	mg/L	0.00014	0.0005	0.00014	28.41%
Co 228.616†	68.2	0.0000	mg/L	0.00000	0.0000	0.00000	3.07%
Cr 267.716†	-52.0	-0.0010	mg/L	0.00016	-0.0010	0.00016	15.75%
Cu 324.752†	397.3	0.0048	mg/L	0.00015	0.0048	0.00015	3.18%
Fe 238.204†	21138.0	0.1658	mg/L	0.00249	0.1658	0.00249	1.50%
Fe 234.349†	7224.4	0.1760	mg/L	0.00225	0.1760	0.00225	1.28%
Mg 279.077†	96373.7	4.381	mg/L	0.0406	4.381	0.0406	0.93%
Mn 257.610†	512010.2	0.5099	mg/L	0.00227	0.5099	0.00227	0.45%
Mo 202.031†	28.6	0.0012	mg/L	0.00038	0.0012	0.00038	31.34%
Na 330.237†	18044.7	38.59	mg/L	0.525	38.59	0.525	1.36%
Ni 231.604†	84.6	0.0006	mg/L	0.00013	0.0006	0.00013	21.32%
Pb 220.353†	19.2	0.0025	mg/L	0.00104	0.0025	0.00104	42.39%
Sb 206.836†	-3.2	-0.0003	mg/L	0.00060	-0.0003	0.00060	202.58%
Se 196.026†	2.8	0.0061	mg/L	0.00235	0.0061	0.00235	38.53%
Sn 189.927†	53.5	0.0156	mg/L	0.00331	0.0156	0.00331	21.23%
Ti 337.279†	110.6	0.0006	mg/L	0.00000	0.0006	0.00000	0.35%
Tl 190.801†	6.9	0.0151	mg/L	0.00674	0.0151	0.00674	44.78%
V 292.402†	215.4	0.0015	mg/L	0.00037	0.0015	0.00037	24.29%
Zn 213.857†	1534.0	0.0166	mg/L	0.00049	0.0166	0.00049	2.94%

Sequence No.: 53  
 Sample ID: 0606272-02DIS  
 Analyst:  
 Initial Sample Wt:

Autosampler Location: 41  
 Date Collected: 6/23/2006 10:22:31 PM  
 Data Type: Original  
 Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: 0606272-02DIS

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2409276.6	2409276.6			22:24:05
1	Ag 328.068†	-639.7	-12.3	0.0007 mg/L	0.0007 mg/L	22:24:10
1	Al 237.313†	-278.1	40.7	0.0049 mg/L	0.0049 mg/L	22:24:30
1	As 188.979†	3.8	6.3	0.0029 mg/L	0.0029 mg/L	22:24:30
1	B 182.528†	53.1	83.2	0.0661 mg/L	0.0661 mg/L	22:24:30
1	Ba 233.527†	5567.7	5523.2	0.0302 mg/L	0.0302 mg/L	22:24:10
1	Be 313.107†	5080.4	-251.0	-0.0001 mg/L	-0.0001 mg/L	22:24:10
1	Ca 315.886†	3723790.1	3597707.0	24.15 mg/L	24.15 mg/L	22:24:05
1	Cd 228.802†	400.4	-8.6	0.0005 mg/L	0.0005 mg/L	22:24:30
1	Co 228.616†	-327.7	77.2	0.0001 mg/L	0.0001 mg/L	22:24:30
1	Cr 267.716†	1772.1	-90.0	-0.0013 mg/L	-0.0013 mg/L	22:24:10
1	Cu 324.752†	1745.2	345.7	0.0045 mg/L	0.0045 mg/L	22:24:10
1	Fe 238.204†	15514.4	14027.7	0.1096 mg/L	0.1096 mg/L	22:24:10
1	Fe 234.349†	5509.4	5080.8	0.1240 mg/L	0.1240 mg/L	22:24:10
1	Mg 279.077†	97130.4	93985.2	4.273 mg/L	4.273 mg/L	22:24:10
1	Mn 257.610†	518779.8	500774.7	0.4987 mg/L	0.4987 mg/L	22:24:05
1	Mo 202.031†	26.1	12.2	0.0000 mg/L	0.0000 mg/L	22:24:30
1	Na 330.237†	19134.9	17360.8	37.15 mg/L	37.15 mg/L	22:24:10
1	Ni 231.604†	479.4	99.4	0.0009 mg/L	0.0009 mg/L	22:24:30
1	Pb 220.353†	-91.3	15.8	0.0021 mg/L	0.0021 mg/L	22:24:30
1	Sb 206.836†	72.5	-10.8	-0.0024 mg/L	-0.0024 mg/L	22:24:30
1	Se 196.026†	-5.3	-2.3	-0.0011 mg/L	-0.0011 mg/L	22:24:30
1	Sn 189.927†	123.3	45.6	0.0131 mg/L	0.0131 mg/L	22:24:30
1	Ti 337.279†	1073.0	25.3	0.0005 mg/L	0.0005 mg/L	22:24:10
1	Tl 190.801†	-19.9	-7.7	0.0028 mg/L	0.0028 mg/L	22:24:30
1	V 292.402†	2597.9	81.1	0.0010 mg/L	0.0010 mg/L	22:24:10
1	Zn 213.857†	2037.7	1118.7	0.0121 mg/L	0.0121 mg/L	22:24:30
2	Y 360.073	2411044.3	2411044.3			22:24:36
2	Ag 328.068†	-529.9	94.3	0.0010 mg/L	0.0010 mg/L	22:24:42
2	Al 237.313†	-262.3	56.1	0.0065 mg/L	0.0065 mg/L	22:25:02
2	As 188.979†	1.6	4.3	0.0012 mg/L	0.0012 mg/L	22:25:02
2	B 182.528†	52.5	82.5	0.0655 mg/L	0.0655 mg/L	22:25:02
2	Ba 233.527†	5642.0	5591.1	0.0305 mg/L	0.0305 mg/L	22:24:42
2	Be 313.107†	5065.1	-269.4	-0.0001 mg/L	-0.0001 mg/L	22:24:42
2	Ca 315.886†	3720429.0	3591819.5	24.11 mg/L	24.11 mg/L	22:24:36
2	Cd 228.802†	375.0	-33.4	0.0002 mg/L	0.0002 mg/L	22:25:02
2	Co 228.616†	-355.7	50.4	-0.0003 mg/L	-0.0003 mg/L	22:25:02
2	Cr 267.716†	1802.0	-62.3	-0.0011 mg/L	-0.0011 mg/L	22:24:42
2	Cu 324.752†	1718.8	319.0	0.0044 mg/L	0.0044 mg/L	22:24:42
2	Fe 238.204†	15616.8	14115.7	0.1103 mg/L	0.1103 mg/L	22:24:42
2	Fe 234.349†	5608.5	5172.7	0.1262 mg/L	0.1262 mg/L	22:24:42
2	Mg 279.077†	98313.2	95059.2	4.321 mg/L	4.321 mg/L	22:24:42
2	Mn 257.610†	518447.4	500085.7	0.4980 mg/L	0.4980 mg/L	22:24:36
2	Mo 202.031†	18.2	4.5	-0.0006 mg/L	-0.0006 mg/L	22:25:02
2	Na 330.237†	19230.5	17439.6	37.32 mg/L	37.32 mg/L	22:24:42
2	Ni 231.604†	462.2	82.5	0.0006 mg/L	0.0006 mg/L	22:25:02
2	Pb 220.353†	-101.0	6.4	0.0011 mg/L	0.0011 mg/L	22:25:02
2	Sb 206.836†	85.3	1.5	0.0010 mg/L	0.0010 mg/L	22:25:02
2	Se 196.026†	-2.9	0.0	0.0021 mg/L	0.0021 mg/L	22:25:02
2	Sn 189.927†	118.2	40.7	0.0115 mg/L	0.0115 mg/L	22:25:02
2	Ti 337.279†	1156.6	105.3	0.0006 mg/L	0.0006 mg/L	22:24:42
2	Tl 190.801†	-8.6	3.2	0.0118 mg/L	0.0118 mg/L	22:25:02
2	V 292.402†	2642.6	122.5	0.0012 mg/L	0.0012 mg/L	22:24:42
2	Zn 213.857†	2015.8	1096.2	0.0119 mg/L	0.0119 mg/L	22:25:02

*SD 6/23/06*

Mean Data: ~~0606272-02DIS~~ *0606372-02DIS*

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2410160.5				1249.97	0.05%
Ag 328.068†	41.0	0.0009 mg/L	0.00022	0.0009 mg/L	0.00022	25.35%
Al 237.313†	48.4	0.0057 mg/L	0.00116	0.0057 mg/L	0.00116	20.43%
As 188.979†	5.3	0.0020 mg/L	0.00121	0.0020 mg/L	0.00121	59.93%
B 182.528†	82.8	0.0658 mg/L	0.00039	0.0658 mg/L	0.00039	0.59%
Ba 233.527†	5557.2	0.0304 mg/L	0.00026	0.0304 mg/L	0.00026	0.87%



Be 313.107†	-260.2	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	3.54%
Ca 315.886†	3594763.2	24.13 mg/L	0.028	24.13 mg/L	0.028	0.12%
Cd 228.802†	-21.0	0.0004 mg/L	0.00021	0.0004 mg/L	0.00021	55.14%
Co 228.616†	63.8	-0.0001 mg/L	0.00027	-0.0001 mg/L	0.00027	269.84%
Cr 267.716†	-76.2	-0.0012 mg/L	0.00013	-0.0012 mg/L	0.00013	10.77%
Cu 324.752†	332.4	0.0045 mg/L	0.00010	0.0045 mg/L	0.00010	2.28%
Fe 238.204†	14071.7	0.1100 mg/L	0.00049	0.1100 mg/L	0.00049	0.45%
Fe 234.349†	5126.8	0.1251 mg/L	0.00158	0.1251 mg/L	0.00158	1.26%
Mg 279.077†	94522.2	4.297 mg/L	0.0345	4.297 mg/L	0.0345	0.80%
Mn 257.610†	500430.2	0.4983 mg/L	0.00049	0.4983 mg/L	0.00049	0.10%
Mo 202.031†	8.4	-0.0003 mg/L	0.00041	-0.0003 mg/L	0.00041	129.22%
Na 330.237†	17400.2	37.24 mg/L	0.117	37.24 mg/L	0.117	0.32%
Ni 231.604†	90.9	0.0007 mg/L	0.00021	0.0007 mg/L	0.00021	29.73%
Pb 220.353†	11.1	0.0016 mg/L	0.00073	0.0016 mg/L	0.00073	46.54%
Sb 206.836†	-4.7	-0.0007 mg/L	0.00238	-0.0007 mg/L	0.00238	346.50%
Se 196.026†	-1.1	0.0005 mg/L	0.00231	0.0005 mg/L	0.00231	452.44%
Sn 189.927†	43.2	0.0123 mg/L	0.00112	0.0123 mg/L	0.00112	9.08%
Ti 337.279†	65.3	0.0005 mg/L	0.00007	0.0005 mg/L	0.00007	13.64%
Tl 190.801†	-2.3	0.0073 mg/L	0.00640	0.0073 mg/L	0.00640	87.63%
V 292.402†	101.8	0.0011 mg/L	0.00012	0.0011 mg/L	0.00012	10.99%
Zn 213.857†	1107.5	0.0120 mg/L	0.00017	0.0120 mg/L	0.00017	1.41%

Sequence No.: 54  
 Sample ID: 0606272-03DIS  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 42  
 Date Collected: 6/23/2006 10:26:40 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 0606272-03DIS

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2391857.0	2391857.0			22:28:13
1	Ag 328.068†	-649.1	-25.9	0.0007 mg/L	0.0007 mg/L	22:28:19
1	Al 237.313†	-285.0	32.0	0.0040 mg/L	0.0040 mg/L	22:28:39
1	As 188.979†	3.4	6.0	0.0026 mg/L	0.0026 mg/L	22:28:39
1	B 182.528†	48.4	79.0	0.0627 mg/L	0.0627 mg/L	22:28:39
1	Ba 233.527†	5229.3	5232.9	0.0286 mg/L	0.0286 mg/L	22:28:39
1	Be 313.107†	5152.8	-144.7	0.0000 mg/L	0.0000 mg/L	22:28:19
1	Ca 315.886†	3703080.8	3603759.7	24.19 mg/L	24.19 mg/L	22:28:13
1	Cd 228.802†	400.5	-5.8	0.0006 mg/L	0.0006 mg/L	22:28:39
1	Co 228.616†	-342.9	60.1	-0.0002 mg/L	-0.0002 mg/L	22:28:39
1	Cr 267.716†	1758.4	-90.8	-0.0013 mg/L	-0.0013 mg/L	22:28:39
1	Cu 324.752†	2141.8	744.2	0.0067 mg/L	0.0067 mg/L	22:28:19
1	Fe 238.204†	16258.8	14862.0	0.1162 mg/L	0.1162 mg/L	22:28:19
1	Fe 234.349†	5619.0	5226.4	0.1275 mg/L	0.1275 mg/L	22:28:39
1	Mg 279.077†	99302.2	96784.4	4.399 mg/L	4.399 mg/L	22:28:19
1	Mn 257.610†	466128.7	453148.0	0.4511 mg/L	0.4511 mg/L	22:28:13
1	Mo 202.031†	29.2	15.4	0.0002 mg/L	0.0002 mg/L	22:28:39
1	Na 330.237†	19856.8	18198.7	38.92 mg/L	38.92 mg/L	22:28:19
1	Ni 231.604†	496.2	119.2	0.0012 mg/L	0.0012 mg/L	22:28:39
1	Pb 220.353†	-81.7	24.5	0.0030 mg/L	0.0030 mg/L	22:28:39
1	Sb 206.836†	75.5	-7.4	-0.0014 mg/L	-0.0014 mg/L	22:28:39
1	Se 196.026†	-4.3	-1.4	0.0001 mg/L	0.0001 mg/L	22:28:39
1	Sn 189.927†	115.9	39.3	0.0111 mg/L	0.0111 mg/L	22:28:39
1	Ti 337.279†	1167.5	124.9	0.0006 mg/L	0.0006 mg/L	22:28:19
1	Tl 190.801†	-13.7	-1.8	0.0070 mg/L	0.0070 mg/L	22:28:39
1	V 292.402†	2653.1	153.2	0.0013 mg/L	0.0013 mg/L	22:28:19
1	Zn 213.857†	1870.1	969.8	0.0105 mg/L	0.0105 mg/L	22:28:39
2	Y 360.073	2394156.7	2394156.7			22:28:45
2	Ag 328.068†	-578.9	43.0	0.0009 mg/L	0.0009 mg/L	22:28:50
2	Al 237.313†	-251.7	64.7	0.0076 mg/L	0.0076 mg/L	22:29:11
2	As 188.979†	3.7	6.2	0.0028 mg/L	0.0028 mg/L	22:29:11
2	B 182.528†	40.3	71.0	0.0563 mg/L	0.0563 mg/L	22:29:11
2	Ba 233.527†	5261.9	5259.7	0.0287 mg/L	0.0287 mg/L	22:29:11
2	Be 313.107†	5164.2	-138.4	0.0000 mg/L	0.0000 mg/L	22:28:50
2	Ca 315.886†	3707331.5	3604431.3	24.20 mg/L	24.20 mg/L	22:28:45
2	Cd 228.802†	378.4	-27.7	0.0003 mg/L	0.0003 mg/L	22:29:11
2	Co 228.616†	-357.3	46.3	-0.0003 mg/L	-0.0003 mg/L	22:29:11
2	Cr 267.716†	1786.4	-65.3	-0.0011 mg/L	-0.0011 mg/L	22:29:11

2	Cu 324.752†	2089.2	691.1	0.0064 mg/L	0.0064 mg/L	22:28:50
2	Fe 238.204†	16047.4	14641.1	0.1145 mg/L	0.1145 mg/L	22:28:50
2	Fe 234.349†	5593.9	5196.8	0.1268 mg/L	0.1268 mg/L	22:29:11
2	Mg 279.077†	98095.1	95516.9	4.342 mg/L	4.342 mg/L	22:28:50
2	Mn 257.610†	466507.7	453080.7	0.4511 mg/L	0.4511 mg/L	22:28:45
2	Mo 202.031†	22.5	8.8	-0.0003 mg/L	-0.0003 mg/L	22:29:11
2	Na 330.237†	19588.9	17919.5	38.33 mg/L	38.33 mg/L	22:28:50
2	Ni 231.604†	480.7	103.6	0.0009 mg/L	0.0009 mg/L	22:29:11
2	Pb 220.353†	-97.8	8.9	0.0013 mg/L	0.0013 mg/L	22:29:11
2	Sb 206.836†	80.7	-2.4	-0.0001 mg/L	-0.0001 mg/L	22:29:11
2	Se 196.026†	7.3	9.8	0.0159 mg/L	0.0159 mg/L	22:29:11
2	Sn 189.927†	109.7	33.1	0.0091 mg/L	0.0091 mg/L	22:29:11
2	Ti 337.279†	1113.3	71.1	0.0005 mg/L	0.0005 mg/L	22:28:50
2	Tl 190.801†	-10.4	1.4	0.0097 mg/L	0.0097 mg/L	22:29:11
2	V 292.402†	2669.8	167.0	0.0013 mg/L	0.0013 mg/L	22:28:50
2	Zn 213.857†	1865.1	963.3	0.0105 mg/L	0.0105 mg/L	22:29:11

Mean Data: 0606272-03DIS

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 360.073	2393006.8					1626.15	0.07%
Ag 328.068†	8.5	0.0008 mg/L		0.00014	0.0008 mg/L	0.00014	18.39%
Al 237.313†	48.3	0.0058 mg/L		0.00259	0.0058 mg/L	0.00259	44.63%
As 188.979†	6.1	0.0027 mg/L		0.00015	0.0027 mg/L	0.00015	5.46%
B 182.528†	75.0	0.0595 mg/L		0.00454	0.0595 mg/L	0.00454	7.63%
Ba 233.527†	5246.3	0.0287 mg/L		0.00010	0.0287 mg/L	0.00010	0.36%
Be 313.107†	-141.6	0.0000 mg/L		0.00000	0.0000 mg/L	0.00000	1.82%
Ca 315.886†	3604095.5	24.20 mg/L		0.003	24.20 mg/L	0.003	0.01%
Cd 228.802†	-16.7	0.0004 mg/L		0.00019	0.0004 mg/L	0.00019	43.86%
Co 228.616†	53.2	-0.0002 mg/L		0.00014	-0.0002 mg/L	0.00014	54.97%
Cr 267.716†	-78.0	-0.0012 mg/L		0.00012	-0.0012 mg/L	0.00012	9.95%
Cu 324.752†	717.7	0.0065 mg/L		0.00020	0.0065 mg/L	0.00020	3.09%
Fe 238.204†	14751.5	0.1154 mg/L		0.00123	0.1154 mg/L	0.00123	1.07%
Fe 234.349†	5211.6	0.1272 mg/L		0.00051	0.1272 mg/L	0.00051	0.40%
Mg 279.077†	96150.7	4.371 mg/L		0.0407	4.371 mg/L	0.0407	0.93%
Mn 257.610†	453114.3	0.4511 mg/L		0.00005	0.4511 mg/L	0.00005	0.01%
Mo 202.031†	12.1	0.0000 mg/L		0.00035	0.0000 mg/L	0.00035	987.14%
Na 330.237†	18059.1	38.62 mg/L		0.415	38.62 mg/L	0.415	1.08%
Ni 231.604†	111.4	0.0011 mg/L		0.00019	0.0011 mg/L	0.00019	18.17%
Pb 220.353†	16.7	0.0022 mg/L		0.00121	0.0022 mg/L	0.00121	55.67%
Sb 206.836†	-4.9	-0.0007 mg/L		0.00095	-0.0007 mg/L	0.00095	127.35%
Se 196.026†	4.2	0.0080 mg/L		0.01118	0.0080 mg/L	0.01118	139.52%
Sn 189.927†	36.2	0.0101 mg/L		0.00138	0.0101 mg/L	0.00138	13.64%
Ti 337.279†	98.0	0.0006 mg/L		0.00005	0.0006 mg/L	0.00005	8.51%
Tl 190.801†	-0.2	0.0084 mg/L		0.00185	0.0084 mg/L	0.00185	22.13%
V 292.402†	160.1	0.0013 mg/L		0.00004	0.0013 mg/L	0.00004	3.06%
Zn 213.857†	966.6	0.0105 mg/L		0.00005	0.0105 mg/L	0.00005	0.46%

Sequence No.: 55  
 Sample ID: 0606372-01  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 43  
 Date Collected: 6/23/2006 10:30:49 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 0606372-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2405215.6	2405215.6			22:32:23
1	Ag 328.068†	-537.9	85.3	0.0010 mg/L	0.0010 mg/L	22:32:28
1	Al 237.313†	74.5	381.7	0.0398 mg/L	0.0398 mg/L	22:32:48
1	As 188.979†	3.5	6.1	0.0027 mg/L	0.0027 mg/L	22:32:48
1	B 182.528†	40.9	71.4	0.0567 mg/L	0.0567 mg/L	22:32:48
1	Ba 233.527†	5710.2	5670.4	0.0310 mg/L	0.0310 mg/L	22:32:48
1	Be 313.107†	5111.8	-212.3	0.0000 mg/L	0.0000 mg/L	22:32:28
1	Ca 315.886†	3703445.9	3584081.9	24.06 mg/L	24.06 mg/L	22:32:23
1	Cd 228.802†	387.9	-20.1	0.0004 mg/L	0.0004 mg/L	22:32:48
1	Co 228.616†	-343.0	61.8	-0.0001 mg/L	-0.0001 mg/L	22:32:48
1	Cr 267.716†	1975.0	109.5	0.0000 mg/L	0.0000 mg/L	22:32:48

1	Cu	324.752†	2877.2	1444.9	0.0105 mg/L	0.0105 mg/L	22:32:28
1	Fe	238.204†	61430.0	58524.6	0.4608 mg/L	0.4608 mg/L	22:32:28
1	Fe	234.349†	20360.8	19474.2	0.4729 mg/L	0.4729 mg/L	22:32:28
1	Mg	279.077†	98141.7	95123.3	4.324 mg/L	4.324 mg/L	22:32:28
1	Mn	257.610†	575541.9	556598.4	0.5544 mg/L	0.5544 mg/L	22:32:23
1	Mo	202.031†	18.9	5.3	-0.0005 mg/L	-0.0005 mg/L	22:32:48
1	Na	330.237†	19426.4	17674.4	37.81 mg/L	37.81 mg/L	22:32:28
1	Ni	231.604†	475.9	96.7	0.0008 mg/L	0.0008 mg/L	22:32:48
1	Pb	220.353†	-81.5	25.1	0.0031 mg/L	0.0031 mg/L	22:32:48
1	Sb	206.836†	78.5	-4.9	-0.0008 mg/L	-0.0008 mg/L	22:32:48
1	Se	196.026†	-4.9	-1.9	-0.0006 mg/L	-0.0006 mg/L	22:32:48
1	Sn	189.927†	114.2	37.0	0.0104 mg/L	0.0104 mg/L	22:32:48
1	Ti	337.279†	2272.3	1188.6	0.0020 mg/L	0.0020 mg/L	22:32:28
1	Tl	190.801†	-11.0	0.9	0.0107 mg/L	0.0107 mg/L	22:32:48
1	V	292.402†	3075.4	547.9	0.0029 mg/L	0.0029 mg/L	22:32:28
1	Zn	213.857†	2161.6	1242.1	0.0135 mg/L	0.0135 mg/L	22:32:48
2	Y	360.073	2425188.9	2425188.9			22:32:55
2	Ag	328.068†	-464.8	159.8	0.0012 mg/L	0.0012 mg/L	22:33:00
2	Al	237.313†	106.9	412.2	0.0433 mg/L	0.0433 mg/L	22:33:20
2	As	188.979†	2.5	5.1	0.0019 mg/L	0.0019 mg/L	22:33:20
2	B	182.528†	34.9	65.3	0.0517 mg/L	0.0517 mg/L	22:33:20
2	Ba	233.527†	5727.0	5641.0	0.0308 mg/L	0.0308 mg/L	22:33:20
2	Be	313.107†	5278.9	-92.6	0.0000 mg/L	0.0000 mg/L	22:33:00
2	Ca	315.886†	3727646.4	3577786.8	24.02 mg/L	24.02 mg/L	22:32:55
2	Cd	228.802†	387.4	-23.7	0.0003 mg/L	0.0003 mg/L	22:33:20
2	Co	228.616†	-334.7	72.5	0.0000 mg/L	0.0000 mg/L	22:33:20
2	Cr	267.716†	1938.3	58.5	-0.0003 mg/L	-0.0003 mg/L	22:33:20
2	Cu	324.752†	2824.8	1371.7	0.0101 mg/L	0.0101 mg/L	22:33:00
2	Fe	238.204†	61418.7	58023.7	0.4569 mg/L	0.4569 mg/L	22:33:00
2	Fe	234.349†	20411.3	19360.3	0.4701 mg/L	0.4701 mg/L	22:33:00
2	Mg	279.077†	98146.5	94345.0	4.288 mg/L	4.288 mg/L	22:33:00
2	Mn	257.610†	579835.2	556131.6	0.5540 mg/L	0.5540 mg/L	22:32:55
2	Mo	202.031†	17.9	4.1	-0.0006 mg/L	-0.0006 mg/L	22:33:20
2	Na	330.237†	19604.3	17690.3	37.85 mg/L	37.85 mg/L	22:33:00
2	Ni	231.604†	467.8	85.2	0.0006 mg/L	0.0006 mg/L	22:33:20
2	Pb	220.353†	-60.6	45.7	0.0054 mg/L	0.0054 mg/L	22:33:20
2	Sb	206.836†	71.3	-12.4	-0.0028 mg/L	-0.0028 mg/L	22:33:20
2	Se	196.026†	3.0	5.7	0.0100 mg/L	0.0100 mg/L	22:33:20
2	Sn	189.927†	114.7	36.6	0.0102 mg/L	0.0102 mg/L	22:33:20
2	Ti	337.279†	2272.3	1170.5	0.0019 mg/L	0.0019 mg/L	22:33:00
2	Tl	190.801†	-13.9	-1.8	0.0085 mg/L	0.0085 mg/L	22:33:20
2	V	292.402†	2995.3	446.5	0.0025 mg/L	0.0025 mg/L	22:33:00
2	Zn	213.857†	2160.7	1224.0	0.0133 mg/L	0.0133 mg/L	22:33:20

Mean Data: 0606372-01

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2415202.3				14123.27	0.58%
Ag 328.068†	122.5	0.0011 mg/L	0.00015	0.0011 mg/L	0.00015	13.89%
Al 237.313†	397.0	0.0415 mg/L	0.00241	0.0415 mg/L	0.00241	5.81%
As 188.979†	5.6	0.0023 mg/L	0.00054	0.0023 mg/L	0.00054	23.67%
B 182.528†	68.3	0.0542 mg/L	0.00350	0.0542 mg/L	0.00350	6.46%
Ba 233.527†	5655.7	0.0309 mg/L	0.00011	0.0309 mg/L	0.00011	0.37%
Be 313.107†	-152.4	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	33.65%
Ca 315.886†	3580934.4	24.04 mg/L	0.030	24.04 mg/L	0.030	0.12%
Cd 228.802†	-21.9	0.0004 mg/L	0.00003	0.0004 mg/L	0.00003	7.99%
Co 228.616†	67.2	-0.0001 mg/L	0.00011	-0.0001 mg/L	0.00011	194.38%
Cr 267.716†	84.0	-0.0001 mg/L	0.00024	-0.0001 mg/L	0.00024	165.43%
Cu 324.752†	1408.3	0.0103 mg/L	0.00028	0.0103 mg/L	0.00028	2.72%
Fe 238.204†	58274.1	0.4588 mg/L	0.00280	0.4588 mg/L	0.00280	0.61%
Fe 234.349†	19417.2	0.4715 mg/L	0.00195	0.4715 mg/L	0.00195	0.41%
Mg 279.077†	94734.1	4.306 mg/L	0.0250	4.306 mg/L	0.0250	0.58%
Mn 257.610†	556365.0	0.5542 mg/L	0.00033	0.5542 mg/L	0.00033	0.06%
Mo 202.031†	4.7	-0.0006 mg/L	0.00006	-0.0006 mg/L	0.00006	11.03%
Na 330.237†	17682.4	37.83 mg/L	0.024	37.83 mg/L	0.024	0.06%
Ni 231.604†	91.0	0.0007 mg/L	0.00014	0.0007 mg/L	0.00014	20.42%
Pb 220.353†	35.4	0.0042 mg/L	0.00160	0.0042 mg/L	0.00160	37.92%
Sb 206.836†	-8.6	-0.0018 mg/L	0.00145	-0.0018 mg/L	0.00145	81.39%
Se 196.026†	1.9	0.0047 mg/L	0.00753	0.0047 mg/L	0.00753	159.78%
Sn 189.927†	36.8	0.0103 mg/L	0.00010	0.0103 mg/L	0.00010	0.95%

Ti 337.279†	1179.5	0.0019 mg/L	0.00002	0.0019 mg/L	0.00002	0.84%
Tl 190.801†	-0.4	0.0096 mg/L	0.00159	0.0096 mg/L	0.00159	16.52%
V 292.402†	497.2	0.0027 mg/L	0.00029	0.0027 mg/L	0.00029	10.85%
Zn 213.857†	1233.0	0.0134 mg/L	0.00014	0.0134 mg/L	0.00014	1.02%

Sequence No.: 56  
 Sample ID: 0606372-02  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 44  
 Date Collected: 6/23/2006 10:34:58 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 0606372-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2418441.0	2418441.0			22:36:32
1	Ag 328.068†	-488.2	136.0	0.0012 mg/L	0.0012 mg/L	22:36:37
1	Al 237.313†	49.4	357.1	0.0372 mg/L	0.0372 mg/L	22:36:58
1	As 188.979†	0.8	3.5	0.0005 mg/L	0.0005 mg/L	22:36:58
1	B 182.528†	42.8	73.0	0.0579 mg/L	0.0579 mg/L	22:36:58
1	Ba 233.527†	5989.5	5909.2	0.0323 mg/L	0.0323 mg/L	22:36:37
1	Be 313.107†	5014.7	-332.8	-0.0001 mg/L	-0.0001 mg/L	22:36:37
1	Ca 315.886†	3815483.3	3672386.6	24.66 mg/L	24.66 mg/L	22:36:32
1	Cd 228.802†	397.6	-12.9	0.0005 mg/L	0.0005 mg/L	22:36:58
1	Co 228.616†	-346.2	60.6	-0.0001 mg/L	-0.0001 mg/L	22:36:58
1	Cr 267.716†	2043.6	165.0	0.0004 mg/L	0.0004 mg/L	22:36:37
1	Cu 324.752†	2366.1	937.4	0.0077 mg/L	0.0077 mg/L	22:36:37
1	Fe 238.204†	58646.9	55518.4	0.4371 mg/L	0.4371 mg/L	22:36:37
1	Fe 234.349†	19566.6	18601.3	0.4517 mg/L	0.4517 mg/L	22:36:37
1	Mg 279.077†	99573.0	95982.1	4.363 mg/L	4.363 mg/L	22:36:37
1	Mn 257.610†	589486.4	566982.1	0.5648 mg/L	0.5648 mg/L	22:36:32
1	Mo 202.031†	32.7	18.4	0.0005 mg/L	0.0005 mg/L	22:36:58
1	Na 330.237†	19647.2	17784.2	38.04 mg/L	38.04 mg/L	22:36:37
1	Ni 231.604†	615.5	228.8	0.0031 mg/L	0.0031 mg/L	22:36:58
1	Pb 220.353†	-73.7	33.0	0.0040 mg/L	0.0040 mg/L	22:36:58
1	Sb 206.836†	82.1	-1.9	0.0000 mg/L	0.0000 mg/L	22:36:58
1	Se 196.026†	-0.3	2.5	0.0056 mg/L	0.0056 mg/L	22:36:58
1	Sn 189.927†	128.3	50.0	0.0145 mg/L	0.0145 mg/L	22:36:58
1	Ti 337.279†	2118.9	1028.8	0.0018 mg/L	0.0018 mg/L	22:36:37
1	Tl 190.801†	-17.7	-5.5	0.0056 mg/L	0.0056 mg/L	22:36:58
1	V 292.402†	3079.5	535.5	0.0028 mg/L	0.0028 mg/L	22:36:37
1	Zn 213.857†	2494.8	1551.6	0.0168 mg/L	0.0168 mg/L	22:36:58
2	Y 360.073	2411687.0	2411687.0			22:37:04
2	Ag 328.068†	-500.0	123.3	0.0011 mg/L	0.0011 mg/L	22:37:09
2	Al 237.313†	54.3	362.0	0.0377 mg/L	0.0377 mg/L	22:37:29
2	As 188.979†	1.3	3.9	0.0009 mg/L	0.0009 mg/L	22:37:29
2	B 182.528†	35.5	66.0	0.0523 mg/L	0.0523 mg/L	22:37:29
2	Ba 233.527†	6006.0	5941.3	0.0325 mg/L	0.0325 mg/L	22:37:09
2	Be 313.107†	5071.8	-264.2	-0.0001 mg/L	-0.0001 mg/L	22:37:09
2	Ca 315.886†	3800517.8	3668223.3	24.63 mg/L	24.63 mg/L	22:37:04
2	Cd 228.802†	397.2	-12.1	0.0005 mg/L	0.0005 mg/L	22:37:29
2	Co 228.616†	-339.4	66.2	-0.0001 mg/L	-0.0001 mg/L	22:37:29
2	Cr 267.716†	1934.0	64.7	-0.0003 mg/L	-0.0003 mg/L	22:37:09
2	Cu 324.752†	2309.0	888.7	0.0075 mg/L	0.0075 mg/L	22:37:09
2	Fe 238.204†	58828.0	55851.5	0.4397 mg/L	0.4397 mg/L	22:37:09
2	Fe 234.349†	19658.7	18743.1	0.4551 mg/L	0.4551 mg/L	22:37:09
2	Mg 279.077†	99934.5	96600.0	4.391 mg/L	4.391 mg/L	22:37:09
2	Mn 257.610†	587187.7	566351.9	0.5642 mg/L	0.5642 mg/L	22:37:04
2	Mo 202.031†	22.8	9.0	-0.0002 mg/L	-0.0002 mg/L	22:37:29
2	Na 330.237†	19721.6	17909.1	38.31 mg/L	38.31 mg/L	22:37:09
2	Ni 231.604†	604.9	220.2	0.0030 mg/L	0.0030 mg/L	22:37:29
2	Pb 220.353†	-58.1	47.9	0.0056 mg/L	0.0056 mg/L	22:37:29
2	Sb 206.836†	77.4	-6.2	-0.0011 mg/L	-0.0011 mg/L	22:37:29
2	Se 196.026†	-5.6	-2.6	-0.0016 mg/L	-0.0016 mg/L	22:37:29
2	Sn 189.927†	131.2	53.1	0.0155 mg/L	0.0155 mg/L	22:37:29
2	Ti 337.279†	2418.2	1323.7	0.0021 mg/L	0.0021 mg/L	22:37:09
2	Tl 190.801†	-12.4	-0.4	0.0098 mg/L	0.0098 mg/L	22:37:29
2	V 292.402†	2986.5	454.0	0.0025 mg/L	0.0025 mg/L	22:37:09
2	Zn 213.857†	2485.0	1548.8	0.0167 mg/L	0.0167 mg/L	22:37:29

Mean Data: 0606372-02

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 360.073	2415064.0					4775.76	0.20%
Ag 328.068†	129.7	0.0011	mg/L	0.00003	0.0011	0.00003	2.33%
Al 237.313†	359.6	0.0374	mg/L	0.00035	0.0374	0.00035	0.94%
As 188.979†	3.7	0.0007	mg/L	0.00026	0.0007	0.00026	35.99%
B 182.528†	69.5	0.0551	mg/L	0.00396	0.0551	0.00396	7.18%
Ba 233.527†	5925.2	0.0324	mg/L	0.00012	0.0324	0.00012	0.38%
Be 313.107†	-298.5	-0.0001	mg/L	0.00001	-0.0001	0.00001	12.15%
Ca 315.886†	3670305.0	24.64	mg/L	0.020	24.64	0.020	0.08%
Cd 228.802†	-12.5	0.0005	mg/L	0.00001	0.0005	0.00001	1.16%
Co 228.616†	63.4	-0.0001	mg/L	0.00005	-0.0001	0.00005	50.55%
Cr 267.716†	114.9	0.0001	mg/L	0.00047	0.0001	0.00047	835.50%
Cu 324.752†	913.0	0.0076	mg/L	0.00019	0.0076	0.00019	2.44%
Fe 238.204†	55684.9	0.4384	mg/L	0.00186	0.4384	0.00186	0.42%
Fe 234.349†	18672.2	0.4534	mg/L	0.00243	0.4534	0.00243	0.54%
Mg 279.077†	96291.0	4.377	mg/L	0.0198	4.377	0.0198	0.45%
Mn 257.610†	566667.0	0.5645	mg/L	0.00044	0.5645	0.00044	0.08%
Mo 202.031†	13.7	0.0001	mg/L	0.00051	0.0001	0.00051	461.53%
Na 330.237†	17846.7	38.18	mg/L	0.186	38.18	0.186	0.49%
Ni 231.604†	224.5	0.0030	mg/L	0.00011	0.0030	0.00011	3.48%
Pb 220.353†	40.5	0.0048	mg/L	0.00116	0.0048	0.00116	24.14%
Sb 206.836†	-4.0	-0.0005	mg/L	0.00082	-0.0005	0.00082	153.47%
Se 196.026†	-0.1	0.0020	mg/L	0.00506	0.0020	0.00506	254.29%
Sn 189.927†	51.6	0.0150	mg/L	0.00071	0.0150	0.00071	4.71%
Ti 337.279†	1176.3	0.0019	mg/L	0.00027	0.0019	0.00027	13.66%
Tl 190.801†	-2.9	0.0077	mg/L	0.00295	0.0077	0.00295	38.47%
V 292.402†	494.8	0.0027	mg/L	0.00024	0.0027	0.00024	8.83%
Zn 213.857†	1550.2	0.0167	mg/L	0.00002	0.0167	0.00002	0.12%

Sequence No.: 57  
 Sample ID: 0606372-03  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 45  
 Date Collected: 6/23/2006 10:39:08 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 0606372-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2389480.0	2389480.0			22:40:43
1	Ag 328.068†	-497.0	121.7	0.0011 mg/L	0.0011 mg/L	22:40:48
1	Al 237.313†	286.3	588.6	0.0620 mg/L	0.0620 mg/L	22:41:08
1	As 188.979†	4.2	6.8	0.0033 mg/L	0.0033 mg/L	22:41:08
1	B 182.528†	40.6	71.4	0.0566 mg/L	0.0566 mg/L	22:41:08
1	Ba 233.527†	5879.0	5871.3	0.0321 mg/L	0.0321 mg/L	22:41:09
1	Be 313.107†	5031.6	-257.9	-0.0001 mg/L	-0.0001 mg/L	22:40:48
1	Ca 315.886†	3759755.5	3662601.1	24.59 mg/L	24.59 mg/L	22:40:43
1	Cd 228.802†	394.2	-11.5	0.0005 mg/L	0.0005 mg/L	22:41:08
1	Co 228.616†	-354.5	48.5	-0.0003 mg/L	-0.0003 mg/L	22:41:08
1	Cr 267.716†	2169.2	311.4	0.0013 mg/L	0.0013 mg/L	22:41:08
1	Cu 324.752†	2889.4	1475.2	0.0106 mg/L	0.0106 mg/L	22:40:48
1	Fe 238.204†	68994.9	66291.6	0.5221 mg/L	0.5221 mg/L	22:40:48
1	Fe 234.349†	22894.5	22074.2	0.5359 mg/L	0.5359 mg/L	22:40:48
1	Mg 279.077†	101120.3	98653.2	4.484 mg/L	4.484 mg/L	22:40:48
1	Mn 257.610†	609741.2	593611.2	0.5914 mg/L	0.5914 mg/L	22:40:43
1	Mo 202.031†	31.2	17.4	0.0004 mg/L	0.0004 mg/L	22:41:08
1	Na 330.237†	19841.4	18202.9	38.92 mg/L	38.92 mg/L	22:40:48
1	Ni 231.604†	490.0	113.6	0.0011 mg/L	0.0011 mg/L	22:41:08
1	Pb 220.353†	-58.0	47.4	0.0056 mg/L	0.0056 mg/L	22:41:08
1	Sb 206.836†	86.1	3.0	0.0014 mg/L	0.0014 mg/L	22:41:08
1	Se 196.026†	-0.8	2.0	0.0049 mg/L	0.0049 mg/L	22:41:08
1	Sn 189.927†	130.5	53.7	0.0157 mg/L	0.0157 mg/L	22:41:08
1	Ti 337.279†	3237.2	2143.9	0.0032 mg/L	0.0032 mg/L	22:40:48
1	Tl 190.801†	-26.6	-14.4	-0.0014 mg/L	-0.0014 mg/L	22:41:08
1	V 292.402†	3067.3	559.6	0.0029 mg/L	0.0029 mg/L	22:40:48
1	Zn 213.857†	5512.1	4522.3	0.0485 mg/L	0.0485 mg/L	22:41:08
2	Y 360.073	2380837.4	2380837.4			22:41:15

2	Ag 328.068†	-454.3	161.7	0.0012 mg/L	0.0012 mg/L	22:41:2
2	Al 237.313†	241.5	545.8	0.0572 mg/L	0.0572 mg/L	22:41:4
2	As 188.979†	-1.5	1.2	-0.0014 mg/L	-0.0014 mg/L	22:41:4
2	B 182.528†	39.9	70.9	0.0562 mg/L	0.0562 mg/L	22:41:4
2	Ba 233.527†	5848.1	5861.9	0.0320 mg/L	0.0320 mg/L	22:41:4
2	Be 313.107†	5091.1	-181.8	0.0000 mg/L	0.0000 mg/L	22:41:2
2	Ca 315.886†	3750925.8	3667267.6	24.62 mg/L	24.62 mg/L	22:41:1
2	Cd 228.802†	402.6	-1.9	0.0006 mg/L	0.0006 mg/L	22:41:4
2	Co 228.616†	-332.7	68.5	0.0000 mg/L	0.0000 mg/L	22:41:4
2	Cr 267.716†	2193.5	342.8	0.0016 mg/L	0.0016 mg/L	22:41:4
2	Cu 324.752†	2928.4	1523.6	0.0109 mg/L	0.0109 mg/L	22:41:2
2	Fe 238.204†	69462.8	66993.6	0.5277 mg/L	0.5277 mg/L	22:41:2
2	Fe 234.349†	23032.8	22290.6	0.5411 mg/L	0.5411 mg/L	22:41:2
2	Mg 279.077†	101826.2	99701.7	4.531 mg/L	4.531 mg/L	22:41:2
2	Mn 257.610†	608509.1	594563.6	0.5923 mg/L	0.5923 mg/L	22:41:1
2	Mo 202.031†	30.1	16.4	0.0003 mg/L	0.0003 mg/L	22:41:4
2	Na 330.237†	19994.7	18423.1	39.39 mg/L	39.39 mg/L	22:41:2
2	Ni 231.604†	516.7	141.5	0.0016 mg/L	0.0016 mg/L	22:41:4
2	Pb 220.353†	-72.6	32.9	0.0040 mg/L	0.0040 mg/L	22:41:4
2	Sb 206.836†	78.0	-4.6	-0.0007 mg/L	-0.0007 mg/L	22:41:4
2	Se 196.026†	-8.1	-5.2	-0.0052 mg/L	-0.0052 mg/L	22:41:4
2	Sn 189.927†	127.2	50.9	0.0148 mg/L	0.0148 mg/L	22:41:4
2	Ti 337.279†	3135.5	2055.8	0.0031 mg/L	0.0031 mg/L	22:41:2
2	Tl 190.801†	-22.4	-10.4	0.0019 mg/L	0.0019 mg/L	22:41:4
2	V 292.402†	3062.5	565.7	0.0030 mg/L	0.0030 mg/L	22:41:2
2	Zn 213.857†	5459.4	4490.3	0.0482 mg/L	0.0482 mg/L	22:41:4

Mean Data: 0606372-03

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2385158.7						6111.30	0.26%
Ag 328.068†	141.7	0.0012	mg/L	0.00008	0.0012	mg/L	0.00008	7.11%
Al 237.313†	567.2	0.0596	mg/L	0.00340	0.0596	mg/L	0.00340	5.70%
As 188.979†	4.0	0.0010	mg/L	0.00330	0.0010	mg/L	0.00330	339.98%
B 182.528†	71.1	0.0564	mg/L	0.00028	0.0564	mg/L	0.00028	0.50%
Ba 233.527†	5866.6	0.0321	mg/L	0.00004	0.0321	mg/L	0.00004	0.11%
Be 313.107†	-219.8	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	17.02%
Ca 315.886†	3664934.3	24.61	mg/L	0.022	24.61	mg/L	0.022	0.09%
Cd 228.802†	-6.7	0.0005	mg/L	0.00009	0.0005	mg/L	0.00009	16.89%
Co 228.616†	58.5	-0.0002	mg/L	0.00020	-0.0002	mg/L	0.00020	110.07%
Cr 267.716†	327.1	0.0014	mg/L	0.00015	0.0014	mg/L	0.00015	10.09%
Cu 324.752†	1499.4	0.0108	mg/L	0.00018	0.0108	mg/L	0.00018	1.71%
Fe 238.204†	66642.6	0.5249	mg/L	0.00392	0.5249	mg/L	0.00392	0.75%
Fe 234.349†	22182.4	0.5385	mg/L	0.00371	0.5385	mg/L	0.00371	0.69%
Mg 279.077†	99177.5	4.508	mg/L	0.0336	4.508	mg/L	0.0336	0.75%
Mn 257.610†	594087.4	0.5919	mg/L	0.00067	0.5919	mg/L	0.00067	0.11%
Mo 202.031†	16.9	0.0004	mg/L	0.00005	0.0004	mg/L	0.00005	15.15%
Na 330.237†	18313.0	39.16	mg/L	0.328	39.16	mg/L	0.328	0.84%
Ni 231.604†	127.5	0.0013	mg/L	0.00035	0.0013	mg/L	0.00035	25.72%
Pb 220.353†	40.2	0.0048	mg/L	0.00113	0.0048	mg/L	0.00113	23.70%
Sb 206.836†	-0.8	0.0003	mg/L	0.00145	0.0003	mg/L	0.00145	440.58%
Se 196.026†	-1.6	-0.0001	mg/L	0.00713	-0.0001	mg/L	0.00713	>999.9%
Sn 189.927†	52.3	0.0152	mg/L	0.00063	0.0152	mg/L	0.00063	4.13%
Ti 337.279†	2099.8	0.0031	mg/L	0.00008	0.0031	mg/L	0.00008	2.54%
Tl 190.801†	-12.4	0.0002	mg/L	0.00237	0.0002	mg/L	0.00237	965.28%
V 292.402†	562.7	0.0030	mg/L	0.00002	0.0030	mg/L	0.00002	0.63%
Zn 213.857†	4506.3	0.0484	mg/L	0.00024	0.0484	mg/L	0.00024	0.51%

Sequence No.: 58  
 Sample ID: BF62302-DUP1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 46  
 Date Collected: 6/23/2006 10:43:19 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: BF62302-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2384544.9	2384544.9					22:44:53

2	Ag 328.068†	-454.3	161.7	0.0012 mg/L	0.0012 mg/L	22:41:20
2	Al 237.313†	241.5	545.8	0.0572 mg/L	0.0572 mg/L	22:41:40
2	As 188.979†	-1.5	1.2	-0.0014 mg/L	-0.0014 mg/L	22:41:40
2	B 182.528†	39.9	70.9	0.0562 mg/L	0.0562 mg/L	22:41:40
2	Ba 233.527†	5848.1	5861.9	0.0320 mg/L	0.0320 mg/L	22:41:40
2	Be 313.107†	5091.1	-181.8	0.0000 mg/L	0.0000 mg/L	22:41:20
2	Ca 315.886†	3750925.8	3667267.6	24.62 mg/L	24.62 mg/L	22:41:15
2	Cd 228.802†	402.6	-1.9	0.0006 mg/L	0.0006 mg/L	22:41:40
2	Co 228.616†	-332.7	68.5	0.0000 mg/L	0.0000 mg/L	22:41:40
2	Cr 267.716†	2193.5	342.8	0.0016 mg/L	0.0016 mg/L	22:41:40
2	Cu 324.752†	2928.4	1523.6	0.0109 mg/L	0.0109 mg/L	22:41:20
2	Fe 238.204†	69462.8	66993.6	0.5277 mg/L	0.5277 mg/L	22:41:20
2	Fe 234.349†	23032.8	22290.6	0.5411 mg/L	0.5411 mg/L	22:41:20
2	Mg 279.077†	101826.2	99701.7	4.531 mg/L	4.531 mg/L	22:41:20
2	Mn 257.610†	608509.1	594563.6	0.5923 mg/L	0.5923 mg/L	22:41:15
2	Mo 202.031†	30.1	16.4	0.0003 mg/L	0.0003 mg/L	22:41:40
2	Na 330.237†	19994.7	18423.1	39.39 mg/L	39.39 mg/L	22:41:20
2	Ni 231.604†	516.7	141.5	0.0016 mg/L	0.0016 mg/L	22:41:40
2	Pb 220.353†	-72.6	32.9	0.0040 mg/L	0.0040 mg/L	22:41:40
2	Sb 206.836†	78.0	-4.6	-0.0007 mg/L	-0.0007 mg/L	22:41:40
2	Se 196.026†	-8.1	-5.2	-0.0052 mg/L	-0.0052 mg/L	22:41:40
2	Sn 189.927†	127.2	50.9	0.0148 mg/L	0.0148 mg/L	22:41:40
2	Ti 337.279†	3135.5	2055.8	0.0031 mg/L	0.0031 mg/L	22:41:20
2	Tl 190.801†	-22.4	-10.4	0.0019 mg/L	0.0019 mg/L	22:41:40
2	V 292.402†	3062.5	565.7	0.0030 mg/L	0.0030 mg/L	22:41:20
2	Zn 213.857†	5459.4	4490.3	0.0482 mg/L	0.0482 mg/L	22:41:40

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 Mean Data: 0606372-03

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2385158.7				6111.30	0.26%
Ag 328.068†	141.7	0.0012 mg/L	0.00008	0.0012 mg/L	0.00008	7.11%
Al 237.313†	567.2	0.0596 mg/L	0.00340	0.0596 mg/L	0.00340	5.70%
As 188.979†	4.0	0.0010 mg/L	0.00330	0.0010 mg/L	0.00330	339.98%
B 182.528†	71.1	0.0564 mg/L	0.00028	0.0564 mg/L	0.00028	0.50%
Ba 233.527†	5866.6	0.0321 mg/L	0.00004	0.0321 mg/L	0.00004	0.11%
Be 313.107†	-219.8	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	17.02%
Ca 315.886†	3664934.3	24.61 mg/L	0.022	24.61 mg/L	0.022	0.09%
Cd 228.802†	-6.7	0.0005 mg/L	0.00009	0.0005 mg/L	0.00009	16.89%
Co 228.616†	58.5	-0.0002 mg/L	0.00020	-0.0002 mg/L	0.00020	110.07%
Cr 267.716†	327.1	0.0014 mg/L	0.00015	0.0014 mg/L	0.00015	10.09%
Cu 324.752†	1499.4	0.0108 mg/L	0.00018	0.0108 mg/L	0.00018	1.71%
Fe 238.204†	66642.6	0.5249 mg/L	0.00392	0.5249 mg/L	0.00392	0.75%
Fe 234.349†	22182.4	0.5385 mg/L	0.00371	0.5385 mg/L	0.00371	0.69%
Mg 279.077†	99177.5	4.508 mg/L	0.0336	4.508 mg/L	0.0336	0.75%
Mn 257.610†	594087.4	0.5919 mg/L	0.00067	0.5919 mg/L	0.00067	0.11%
Mo 202.031†	16.9	0.0004 mg/L	0.00005	0.0004 mg/L	0.00005	15.15%
Na 330.237†	18313.0	39.16 mg/L	0.328	39.16 mg/L	0.328	0.84%
Ni 231.604†	127.5	0.0013 mg/L	0.00035	0.0013 mg/L	0.00035	25.72%
Pb 220.353†	40.2	0.0048 mg/L	0.00113	0.0048 mg/L	0.00113	23.70%
Sb 206.836†	-0.8	0.0003 mg/L	0.00145	0.0003 mg/L	0.00145	440.58%
Se 196.026†	-1.6	-0.0001 mg/L	0.00713	-0.0001 mg/L	0.00713	>999.9%
Sn 189.927†	52.3	0.0152 mg/L	0.00063	0.0152 mg/L	0.00063	4.13%
Ti 337.279†	2099.8	0.0031 mg/L	0.00008	0.0031 mg/L	0.00008	2.54%
Tl 190.801†	-12.4	0.0002 mg/L	0.00237	0.0002 mg/L	0.00237	965.28%
V 292.402†	562.7	0.0030 mg/L	0.00002	0.0030 mg/L	0.00002	0.63%
Zn 213.857†	4506.3	0.0484 mg/L	0.00024	0.0484 mg/L	0.00024	0.51%

Sequence No.: 58  
 Sample ID: BF62302-DUP1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 46  
 Date Collected: 6/23/2006 10:43:19 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

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 Replicate Data: BF62302-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2384544.9	2384544.9			22:44:53

1	Ag 328.068†	-285.6	327.3	0.0017 mg/L	0.0017 mg/L	22:44:58
1	Al 237.313†	306.1	608.6	0.0642 mg/L	0.0642 mg/L	22:45:19
1	As 188.979†	2.9	5.5	0.0022 mg/L	0.0022 mg/L	22:45:19
1	B 182.528†	41.3	72.1	0.0572 mg/L	0.0572 mg/L	22:45:19
1	Ba 233.527†	5750.3	5757.5	0.0315 mg/L	0.0315 mg/L	22:45:19
1	Be 313.107†	5102.5	-178.4	0.0000 mg/L	0.0000 mg/L	22:44:58
1	Ca 315.886†	3672450.3	3584895.0	24.07 mg/L	24.07 mg/L	22:44:53
1	Cd 228.802†	402.1	-3.0	0.0006 mg/L	0.0006 mg/L	22:45:19
1	Co 228.616†	-325.4	76.2	0.0001 mg/L	0.0001 mg/L	22:45:19
1	Cr 267.716†	2307.6	450.9	0.0023 mg/L	0.0023 mg/L	22:45:19
1	Cu 324.752†	3111.4	1697.9	0.0118 mg/L	0.0118 mg/L	22:44:58
1	Fe 238.204†	70895.4	68287.4	0.5379 mg/L	0.5379 mg/L	22:44:58
1	Fe 234.349†	23467.5	22680.2	0.5506 mg/L	0.5506 mg/L	22:44:58
1	Mg 279.077†	99600.3	97372.2	4.426 mg/L	4.426 mg/L	22:44:58
1	Mn 257.610†	596178.0	581591.0	0.5794 mg/L	0.5794 mg/L	22:44:53
1	Mo 202.031†	17.5	4.1	-0.0006 mg/L	-0.0006 mg/L	22:45:19
1	Na 330.237†	19462.0	17872.3	38.23 mg/L	38.23 mg/L	22:44:58
1	Ni 231.604†	565.6	188.4	0.0024 mg/L	0.0024 mg/L	22:45:19
1	Pb 220.353†	-75.3	30.5	0.0037 mg/L	0.0037 mg/L	22:45:19
1	Sb 206.836†	72.5	-10.1	-0.0022 mg/L	-0.0022 mg/L	22:45:19
1	Se 196.026†	-4.9	-2.0	-0.0007 mg/L	-0.0007 mg/L	22:45:19
1	Sn 189.927†	125.8	49.3	0.0143 mg/L	0.0143 mg/L	22:45:19
1	Ti 337.279†	3137.8	2053.3	0.0031 mg/L	0.0031 mg/L	22:44:58
1	Tl 190.801†	-27.5	-15.3	-0.0024 mg/L	-0.0024 mg/L	22:45:19
1	V 292.402†	3104.9	602.5	0.0031 mg/L	0.0031 mg/L	22:44:58
1	Zn 213.857†	5859.6	4872.9	0.0523 mg/L	0.0523 mg/L	22:45:19
2	Y 360.073	2400071.3	2400071.3			22:45:25
2	Ag 328.068†	-365.6	251.4	0.0015 mg/L	0.0015 mg/L	22:45:30
2	Al 237.313†	296.2	597.0	0.0629 mg/L	0.0629 mg/L	22:45:51
2	As 188.979†	0.9	3.6	0.0006 mg/L	0.0006 mg/L	22:45:51
2	B 182.528†	34.9	65.7	0.0520 mg/L	0.0520 mg/L	22:45:51
2	Ba 233.527†	5762.8	5733.3	0.0313 mg/L	0.0313 mg/L	22:45:51
2	Be 313.107†	5143.3	-171.1	0.0000 mg/L	0.0000 mg/L	22:45:30
2	Ca 315.886†	3698914.9	3587372.3	24.08 mg/L	24.08 mg/L	22:45:25
2	Cd 228.802†	386.9	-20.3	0.0004 mg/L	0.0004 mg/L	22:45:51
2	Co 228.616†	-335.8	68.1	0.0000 mg/L	0.0000 mg/L	22:45:51
2	Cr 267.716†	2278.0	407.6	0.0020 mg/L	0.0020 mg/L	22:45:51
2	Cu 324.752†	3099.8	1667.0	0.0117 mg/L	0.0117 mg/L	22:45:30
2	Fe 238.204†	70945.8	67888.3	0.5347 mg/L	0.5347 mg/L	22:45:30
2	Fe 234.349†	23518.3	22581.2	0.5482 mg/L	0.5482 mg/L	22:45:30
2	Mg 279.077†	99947.7	97079.9	4.412 mg/L	4.412 mg/L	22:45:30
2	Mn 257.610†	599922.2	581457.4	0.5793 mg/L	0.5793 mg/L	22:45:25
2	Mo 202.031†	27.3	13.5	0.0001 mg/L	0.0001 mg/L	22:45:51
2	Na 330.237†	19600.0	17883.3	38.25 mg/L	38.25 mg/L	22:45:30
2	Ni 231.604†	565.3	184.6	0.0023 mg/L	0.0023 mg/L	22:45:51
2	Pb 220.353†	-65.8	40.1	0.0047 mg/L	0.0047 mg/L	22:45:51
2	Sb 206.836†	86.1	2.6	0.0013 mg/L	0.0013 mg/L	22:45:51
2	Se 196.026†	-6.5	-3.5	-0.0028 mg/L	-0.0028 mg/L	22:45:51
2	Sn 189.927†	117.7	40.7	0.0115 mg/L	0.0115 mg/L	22:45:51
2	Ti 337.279†	3243.7	2136.2	0.0032 mg/L	0.0032 mg/L	22:45:30
2	Tl 190.801†	-24.8	-12.5	0.0000 mg/L	0.0000 mg/L	22:45:51
2	V 292.402†	3003.0	484.0	0.0026 mg/L	0.0026 mg/L	22:45:30
2	Zn 213.857†	5859.9	4836.2	0.0519 mg/L	0.0519 mg/L	22:45:51

Mean Data: BF62302-DUP1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2392308.1				10978.86	0.46%
Ag 328.068†	289.3	0.0016 mg/L	0.00016	0.0016 mg/L	0.00016	9.83%
Al 237.313†	602.8	0.0635 mg/L	0.00088	0.0635 mg/L	0.00088	1.39%
As 188.979†	4.6	0.0014 mg/L	0.00113	0.0014 mg/L	0.00113	78.90%
B 182.528†	68.9	0.0546 mg/L	0.00365	0.0546 mg/L	0.00365	6.68%
Ba 233.527†	5745.4	0.0314 mg/L	0.00009	0.0314 mg/L	0.00009	0.30%
Be 313.107†	-174.8	0.0000 mg/L	0.00000	0.0000 mg/L	0.00000	1.86%
Ca 315.886†	3586133.7	24.08 mg/L	0.012	24.08 mg/L	0.012	0.05%
Cd 228.802†	-11.7	0.0005 mg/L	0.00014	0.0005 mg/L	0.00014	29.93%
Co 228.616†	72.1	0.0000 mg/L	0.00008	0.0000 mg/L	0.00008	722.43%
Cr 267.716†	429.3	0.0021 mg/L	0.00020	0.0021 mg/L	0.00020	9.49%
Cu 324.752†	1682.5	0.0117 mg/L	0.00012	0.0117 mg/L	0.00012	1.00%
Fe 238.204†	68087.9	0.5363 mg/L	0.00223	0.5363 mg/L	0.00223	0.42%



Element	Concentration	Unit	Std. Dev.	Unit	Concentration	Unit	Concentration	Unit
Fe 234.349†	22630.7	0.5494 mg/L	0.00170	0.5494 mg/L	0.00170	0.31%		
Mg 279.077†	97226.1	4.419 mg/L	0.0094	4.419 mg/L	0.0094	0.21%		
Mn 257.610†	581524.2	0.5793 mg/L	0.00009	0.5793 mg/L	0.00009	0.02%		
Mo 202.031†	8.8	-0.0003 mg/L	0.00050	-0.0003 mg/L	0.00050	195.40%		
Na 330.237†	17877.8	38.24 mg/L	0.016	38.24 mg/L	0.016	0.04%		
Ni 231.604†	186.5	0.0024 mg/L	0.00005	0.0024 mg/L	0.00005	2.03%		
Pb 220.353†	35.3	0.0042 mg/L	0.00075	0.0042 mg/L	0.00075	17.80%		
Sb 206.836†	-3.8	-0.0005 mg/L	0.00246	-0.0005 mg/L	0.00246	511.99%		
Se 196.026†	-2.8	-0.0018 mg/L	0.00148	-0.0018 mg/L	0.00148	84.66%		
Sn 189.927†	45.0	0.0129 mg/L	0.00194	0.0129 mg/L	0.00194	15.07%		
Ti 337.279†	2094.7	0.0031 mg/L	0.00007	0.0031 mg/L	0.00007	2.40%		
Tl 190.801†	-13.9	-0.0012 mg/L	0.00165	-0.0012 mg/L	0.00165	135.63%		
V 292.402†	543.3	0.0029 mg/L	0.00034	0.0029 mg/L	0.00034	11.77%		
Zn 213.857†	4854.6	0.0521 mg/L	0.00028	0.0521 mg/L	0.00028	0.53%		

Duplicate Check: BF62302-DUP1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068		0.0016	0.000	mg/L	31.3
Al 237.313	0.0596	0.0635	0.001	mg/L	6.5
As 188.979	0.0010	0.0014	0.001	mg/L	38.3
B 182.528	0.0564	0.0546	0.004	mg/L	3.2
Ba 233.527	0.0321	0.0314	0.000	mg/L	2.1
Be 313.107	0.0000	0.0000	0.000	mg/L	-15.5
Ca 315.886	24.61	24.08	0.012	mg/L	2.2
Cd 228.802	0.0005	0.0005	0.000	mg/L	12.0
Co 228.616	-0.0002	0.0000	0.000	mg/L	-226.2
Cr 267.716	0.0014	0.0021	0.000	mg/L	37.9
Cu 324.752	0.0108	0.0117	0.000	mg/L	8.8
Fe 238.204	0.5249	0.5363	0.002	mg/L	2.1
Fe 234.349	0.5385	0.5494	0.002	mg/L	2.0
Mg 279.077	4.508	4.419	0.009	mg/L	2.0
Mn 257.610	0.5919	0.5793	0.000	mg/L	2.1
Mo 202.031	0.0004	-0.0003	0.001	mg/L	1208.2
Na 330.237	39.16	38.24	0.016	mg/L	2.4
Ni 231.604	0.0013	0.0024	0.000	mg/L	55.6
Pb 220.353	0.0048	0.0042	0.001	mg/L	12.0
Sb 206.836	0.0003	-0.0005	0.002	mg/L	-1075.7
Se 196.026	-0.0001	-0.0018	0.001	mg/L	-176.0
Sn 189.927	0.0152	0.0129	0.002	mg/L	16.5
Ti 337.279	0.0031	0.0031	0.000	mg/L	0.2
Tl 190.801	0.0002	-0.0012	0.002	mg/L	-301.4
V 292.402	0.0030	0.0029	0.000	mg/L	2.5
Zn 213.857	0.0484	0.0521	0.000	mg/L	7.4

Sequence No.: 59  
 Sample ID: BF62302-MS1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 47  
 Date Collected: 6/23/2006 10:47:30 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: BF62302-MS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2371721.5	2371721.5					22:49:06
1	Ag 328.068†	89899.9	88908.3	0.2615	mg/L	0.2615	mg/L	22:49:11
1	Al 237.313†	24075.5	23957.2	2.619	mg/L	2.619	mg/L	22:49:11
1	As 188.979†	637.6	628.9	0.5256	mg/L	0.5256	mg/L	22:49:31
1	B 182.528†	705.5	724.7	0.5814	mg/L	0.5814	mg/L	22:49:31
1	Ba 233.527†	100301.6	98658.7	0.5400	mg/L	0.5400	mg/L	22:49:11
1	Be 313.107†	349915.3	338532.8	0.0534	mg/L	0.0534	mg/L	22:49:06
1	Ca 315.886†	4530378.7	4446973.4	29.86	mg/L	29.86	mg/L	22:49:06
1	Cd 228.802†	22631.7	21833.6	0.2591	mg/L	0.2591	mg/L	22:49:11
1	Co 228.616†	37022.5	36758.5	0.5126	mg/L	0.5126	mg/L	22:49:11
1	Cr 267.716†	83204.0	79921.7	0.5252	mg/L	0.5252	mg/L	22:49:11
1	Cu 324.752†	100641.0	97510.6	0.5282	mg/L	0.5282	mg/L	22:49:11
1	Fe 238.204†	411322.4	403038.4	3.181	mg/L	3.181	mg/L	22:49:06

1	Fe 234.349†	132852.8	130245.3	3.153 mg/L	3.153 mg/L	22:49:11
1	Mg 279.077†	213953.8	210219.4	9.542 mg/L	9.542 mg/L	22:49:11
1	Mn 257.610†	1126088.3	1105232.1	1.102 mg/L	1.102 mg/L	22:49:06
1	Mo 202.031†	7043.0	6904.8	0.5230 mg/L	0.5230 mg/L	22:49:31
1	Na 330.237†	33121.2	31391.5	66.67 mg/L	66.67 mg/L	22:49:11
1	Ni 231.604†	30842.3	29930.0	0.5232 mg/L	0.5232 mg/L	22:49:11
1	Pb 220.353†	4696.7	4717.3	0.5206 mg/L	0.5206 mg/L	22:49:31
1	Sb 206.836†	2000.8	1884.3	0.5069 mg/L	0.5069 mg/L	22:49:31
1	Se 196.026†	765.3	754.5	1.060 mg/L	1.060 mg/L	22:49:31
1	Sn 189.927†	1875.0	1768.1	0.5618 mg/L	0.5618 mg/L	22:49:31
1	Ti 337.279†	411929.0	403595.4	0.5140 mg/L	0.5140 mg/L	22:49:06
1	Tl 190.801†	590.3	591.3	0.4991 mg/L	0.4991 mg/L	22:49:31
1	V 292.402†	133059.2	128263.5	0.5222 mg/L	0.5222 mg/L	22:49:11
1	Zn 213.857†	54470.4	52650.8	0.5598 mg/L	0.5598 mg/L	22:49:11
2	Y 360.073	2376013.8	2376013.8			22:49:38
2	Ag 328.068†	90279.2	89120.7	0.2621 mg/L	0.2621 mg/L	22:49:44
2	Al 237.313†	24161.5	23998.7	2.624 mg/L	2.624 mg/L	22:49:44
2	As 188.979†	641.1	631.3	0.5275 mg/L	0.5275 mg/L	22:50:04
2	B 182.528†	691.8	710.1	0.5697 mg/L	0.5697 mg/L	22:50:04
2	Ba 233.527†	100613.0	98786.0	0.5407 mg/L	0.5407 mg/L	22:49:44
2	Be 313.107†	349502.6	337507.3	0.0533 mg/L	0.0533 mg/L	22:49:38
2	Ca 315.886†	4527812.0	4436418.1	29.79 mg/L	29.79 mg/L	22:49:38
2	Cd 228.802†	22667.7	21828.8	0.2590 mg/L	0.2590 mg/L	22:49:44
2	Co 228.616†	37093.7	36762.6	0.5127 mg/L	0.5127 mg/L	22:49:44
2	Cr 267.716†	83583.4	80146.1	0.5267 mg/L	0.5267 mg/L	22:49:44
2	Cu 324.752†	101419.4	98095.1	0.5314 mg/L	0.5314 mg/L	22:49:44
2	Fe 238.204†	411043.9	402035.5	3.173 mg/L	3.173 mg/L	22:49:38
2	Fe 234.349†	133347.2	130494.3	3.159 mg/L	3.159 mg/L	22:49:44
2	Mg 279.077†	214808.3	210677.5	9.563 mg/L	9.563 mg/L	22:49:44
2	Mn 257.610†	1124326.9	1101507.0	1.099 mg/L	1.099 mg/L	22:49:38
2	Mo 202.031†	7061.5	6910.5	0.5234 mg/L	0.5234 mg/L	22:50:04
2	Na 330.237†	33287.1	31495.4	66.89 mg/L	66.89 mg/L	22:49:44
2	Ni 231.604†	30953.1	29983.9	0.5242 mg/L	0.5242 mg/L	22:49:44
2	Pb 220.353†	4705.4	4717.5	0.5207 mg/L	0.5207 mg/L	22:50:04
2	Sb 206.836†	2006.0	1885.8	0.5073 mg/L	0.5073 mg/L	22:50:04
2	Se 196.026†	769.8	757.5	1.064 mg/L	1.064 mg/L	22:50:04
2	Sn 189.927†	1874.8	1764.6	0.5607 mg/L	0.5607 mg/L	22:50:04
2	Ti 337.279†	411338.4	402285.4	0.5124 mg/L	0.5124 mg/L	22:49:38
2	Tl 190.801†	602.4	602.2	0.5080 mg/L	0.5080 mg/L	22:50:04
2	V 292.402†	133596.6	128554.3	0.5234 mg/L	0.5234 mg/L	22:49:44
2	Zn 213.857†	54670.2	52749.9	0.5608 mg/L	0.5608 mg/L	22:49:44

Mean Data: BF62302-MS1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2373867.7				3035.12	0.13%
Ag 328.068†	89014.5	0.2618 mg/L	0.00044	0.2618 mg/L	0.00044	0.17%
Al 237.313†	23977.9	2.621 mg/L	0.0032	2.621 mg/L	0.0032	0.12%
As 188.979†	630.1	0.5266 mg/L	0.00137	0.5266 mg/L	0.00137	0.26%
B 182.528†	717.4	0.5756 mg/L	0.00830	0.5756 mg/L	0.00830	1.44%
Ba 233.527†	98722.3	0.5404 mg/L	0.00049	0.5404 mg/L	0.00049	0.09%
Be 313.107†	338020.1	0.0533 mg/L	0.00011	0.0533 mg/L	0.00011	0.21%
Ca 315.886†	4441695.7	29.82 mg/L	0.050	29.82 mg/L	0.050	0.17%
Cd 228.802†	21831.2	0.2591 mg/L	0.00004	0.2591 mg/L	0.00004	0.02%
Co 228.616†	36760.5	0.5127 mg/L	0.00004	0.5127 mg/L	0.00004	0.01%
Cr 267.716†	80033.9	0.5259 mg/L	0.00104	0.5259 mg/L	0.00104	0.20%
Cu 324.752†	97802.8	0.5298 mg/L	0.00223	0.5298 mg/L	0.00223	0.42%
Fe 238.204†	402536.9	3.177 mg/L	0.0056	3.177 mg/L	0.0056	0.18%
Fe 234.349†	130369.8	3.156 mg/L	0.0043	3.156 mg/L	0.0043	0.14%
Mg 279.077†	210448.5	9.553 mg/L	0.0147	9.553 mg/L	0.0147	0.15%
Mn 257.610†	1103369.6	1.100 mg/L	0.0026	1.100 mg/L	0.0026	0.24%
Mo 202.031†	6907.7	0.5232 mg/L	0.00030	0.5232 mg/L	0.00030	0.06%
Na 330.237†	31443.5	66.78 mg/L	0.154	66.78 mg/L	0.154	0.23%
Ni 231.604†	29957.0	0.5237 mg/L	0.00067	0.5237 mg/L	0.00067	0.13%
Pb 220.353†	4717.4	0.5206 mg/L	0.00001	0.5206 mg/L	0.00001	0.00%
Sb 206.836†	1885.1	0.5071 mg/L	0.00028	0.5071 mg/L	0.00028	0.06%
Se 196.026†	756.0	1.062 mg/L	0.0030	1.062 mg/L	0.0030	0.28%
Sn 189.927†	1766.4	0.5612 mg/L	0.00079	0.5612 mg/L	0.00079	0.14%
Ti 337.279†	402940.4	0.5132 mg/L	0.00118	0.5132 mg/L	0.00118	0.23%
Tl 190.801†	596.8	0.5036 mg/L	0.00629	0.5036 mg/L	0.00629	1.25%

V 292.402†	128408.9	0.5228 mg/L	0.00084	0.5228 mg/L	0.00084	0.16%
Zn 213.857†	52700.3	0.5603 mg/L	0.00074	0.5603 mg/L	0.00074	0.13%

Matrix Recovery Check: BF62302-MS1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.2512	0.2618	0.000	mg/L	104.3
Al 237.313	2.560	2.621	0.003	mg/L	102.5
As 188.979	0.5010	0.5266	0.001	mg/L	105.1
B 182.528	0.5564	0.5756	0.008	mg/L	103.8
Ba 233.527	0.5321	0.5404	0.000	mg/L	101.7
Be 313.107	0.0500	0.0533	0.000	mg/L	106.8
Ca 315.886	29.61	29.82	0.050	mg/L	104.3
Cd 228.802	0.2505	0.2591	0.000	mg/L	103.4
Co 228.616	0.4998	0.5127	0.000	mg/L	102.6
Cr 267.716	0.5014	0.5259	0.001	mg/L	104.9
Cu 324.752	0.5108	0.5298	0.002	mg/L	103.8
Fe 238.204	3.025	3.177	0.006	mg/L	106.1
Fe 234.349	3.039	3.156	0.004	mg/L	104.7
Mg 279.077	9.508	9.553	0.015	mg/L	100.9
Mn 257.610	1.092	1.100	0.003	mg/L	101.7
Mo 202.031	0.5004	0.5232	0.000	mg/L	104.6
Na 330.237	64.16	66.78	0.154	mg/L	110.5
Ni 231.604	0.5013	0.5237	0.001	mg/L	104.5
Pb 220.353	0.5048	0.5206	0.000	mg/L	103.2
Sb 206.836	0.5003	0.5071	0.000	mg/L	101.3
Se 196.026	0.9999	1.062	0.003	mg/L	106.2
Sn 189.927	0.5152	0.5612	0.001	mg/L	109.2
Ti 337.279	0.5031	0.5132	0.001	mg/L	102.0
Tl 190.801	0.5002	0.5036	0.006	mg/L	100.7
V 292.402	0.5030	0.5228	0.001	mg/L	104.0
Zn 213.857	0.5484	0.5603	0.001	mg/L	102.4

Sequence No.: 60  
 Sample ID: BF62302-SD1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 48  
 Date Collected: 6/23/2006 10:51:43 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: BF62302-SD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2397398.9	2397398.9					22:53:14
1	Ag 328.068†	-669.2	-44.0	0.0006	mg/L	0.0006	mg/L	22:53:19
1	Al 237.313†	-164.1	150.0	0.0214	mg/L	0.0214	mg/L	22:53:39
1	As 188.979†	0.6	3.3	0.0003	mg/L	0.0003	mg/L	22:53:39
1	B 182.528†	-9.8	22.3	0.0172	mg/L	0.0172	mg/L	22:53:39
1	Ba 233.527†	1087.2	1196.1	0.0065	mg/L	0.0065	mg/L	22:53:39
1	Be 313.107†	5237.3	-74.2	0.0000	mg/L	0.0000	mg/L	22:53:19
1	Ca 315.886†	775878.1	751040.7	5.036	mg/L	5.036	mg/L	22:53:14
1	Cd 228.802†	389.5	-17.3	0.0004	mg/L	0.0004	mg/L	22:53:39
1	Co 228.616†	-380.3	24.5	-0.0007	mg/L	-0.0007	mg/L	22:53:39
1	Cr 267.716†	1872.5	16.1	-0.0005	mg/L	-0.0005	mg/L	22:53:19
1	Cu 324.752†	1704.3	314.3	0.0044	mg/L	0.0044	mg/L	22:53:19
1	Fe 238.204†	14783.2	13391.5	0.1046	mg/L	0.1046	mg/L	22:53:19
1	Fe 234.349†	4849.5	4466.0	0.1091	mg/L	0.1091	mg/L	22:53:19
1	Mg 279.077†	20498.5	19986.8	0.9133	mg/L	0.9133	mg/L	22:53:19
1	Mn 257.610†	123949.9	119601.1	0.1181	mg/L	0.1181	mg/L	22:53:19
1	Mo 202.031†	25.0	11.2	-0.0001	mg/L	-0.0001	mg/L	22:53:39
1	Na 330.237†	4570.2	3299.9	7.562	mg/L	7.562	mg/L	22:53:19
1	Ni 231.604†	386.1	11.0	-0.0007	mg/L	-0.0007	mg/L	22:53:39
1	Pb 220.353†	-104.3	2.7	0.0006	mg/L	0.0006	mg/L	22:53:39
1	Sb 206.836†	78.1	-5.0	-0.0008	mg/L	-0.0008	mg/L	22:53:39
1	Se 196.026†	0.2	3.0	0.0063	mg/L	0.0063	mg/L	22:53:39
1	Sn 189.927†	66.1	-9.4	-0.0044	mg/L	-0.0044	mg/L	22:53:39
1	Ti 337.279†	1427.8	375.2	0.0009	mg/L	0.0009	mg/L	22:53:19
1	Tl 190.801†	1.6	13.1	0.0146	mg/L	0.0146	mg/L	22:53:39
1	V 292.402†	2560.7	57.4	0.0009	mg/L	0.0009	mg/L	22:53:19

1	Zn 213.857†	1941.5	1035.1	0.0113 mg/L	0.0113 mg/L	22:53:39
2	Y 360.073	2372346.0	2372346.0			22:53:45
2	Ag 328.068†	-603.6	13.5	0.0008 mg/L	0.0008 mg/L	22:53:50
2	Al 237.313†	-199.9	113.3	0.0173 mg/L	0.0173 mg/L	22:54:10
2	As 188.979†	5.1	7.7	0.0041 mg/L	0.0041 mg/L	22:54:10
2	B 182.528†	-12.8	19.2	0.0148 mg/L	0.0148 mg/L	22:54:10
2	Ba 233.527†	1112.5	1232.2	0.0067 mg/L	0.0067 mg/L	22:54:10
2	Be 313.107†	5125.9	-129.8	0.0000 mg/L	0.0000 mg/L	22:53:50
2	Ca 315.886†	773514.0	756681.0	5.074 mg/L	5.074 mg/L	22:53:45
2	Cd 228.802†	409.5	6.3	0.0007 mg/L	0.0007 mg/L	22:54:10
2	Co 228.616†	-384.0	16.9	-0.0008 mg/L	-0.0008 mg/L	22:54:10
2	Cr 267.716†	1883.4	46.0	-0.0003 mg/L	-0.0003 mg/L	22:53:50
2	Cu 324.752†	1655.2	283.6	0.0042 mg/L	0.0042 mg/L	22:53:50
2	Fe 238.204†	14830.0	13589.2	0.1062 mg/L	0.1062 mg/L	22:53:50
2	Fe 234.349†	4904.6	4569.9	0.1116 mg/L	0.1116 mg/L	22:53:50
2	Mg 279.077†	20603.1	20299.9	0.9275 mg/L	0.9275 mg/L	22:53:50
2	Mn 257.610†	124862.0	121768.8	0.1202 mg/L	0.1202 mg/L	22:53:50
2	Mo 202.031†	32.3	18.7	0.0005 mg/L	0.0005 mg/L	22:54:10
2	Na 330.237†	4597.9	3374.0	7.718 mg/L	7.718 mg/L	22:53:50
2	Ni 231.604†	410.7	39.2	-0.0002 mg/L	-0.0002 mg/L	22:54:10
2	Pb 220.353†	-92.2	13.5	0.0018 mg/L	0.0018 mg/L	22:54:10
2	Sb 206.836†	78.2	-4.2	-0.0006 mg/L	-0.0006 mg/L	22:54:10
2	Se 196.026†	-3.7	-0.9	0.0009 mg/L	0.0009 mg/L	22:54:10
2	Sn 189.927†	73.4	-1.5	-0.0019 mg/L	-0.0019 mg/L	22:54:10
2	Ti 337.279†	1395.3	358.0	0.0009 mg/L	0.0009 mg/L	22:53:50
2	Tl 190.801†	-1.9	9.6	0.0118 mg/L	0.0118 mg/L	22:54:10
2	V 292.402†	2626.1	147.9	0.0013 mg/L	0.0013 mg/L	22:53:50
2	Zn 213.857†	1945.2	1058.6	0.0115 mg/L	0.0115 mg/L	22:54:10

Mean Data: BF62302-SD1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2384872.5						17715.13	0.74%
Ag 328.068†	-15.3	0.0007	mg/L	0.00012	0.0007	mg/L	0.00012	16.88%
Al 237.313†	131.7	0.0194	mg/L	0.00290	0.0194	mg/L	0.00290	14.96%
As 188.979†	5.5	0.0022	mg/L	0.00265	0.0022	mg/L	0.00265	119.88%
B 182.528†	20.7	0.0160	mg/L	0.00172	0.0160	mg/L	0.00172	10.77%
Ba 233.527†	1214.2	0.0066	mg/L	0.00014	0.0066	mg/L	0.00014	2.12%
Be 313.107†	-102.0	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	18.93%
Ca 315.886†	753860.9	5.055	mg/L	0.0268	5.055	mg/L	0.0268	0.53%
Cd 228.802†	-5.5	0.0006	mg/L	0.00019	0.0006	mg/L	0.00019	34.30%
Co 228.616†	20.7	-0.0007	mg/L	0.00007	-0.0007	mg/L	0.00007	10.63%
Cr 267.716†	31.0	-0.0004	mg/L	0.00014	-0.0004	mg/L	0.00014	36.49%
Cu 324.752†	299.0	0.0043	mg/L	0.00012	0.0043	mg/L	0.00012	2.73%
Fe 238.204†	13490.3	0.1054	mg/L	0.00110	0.1054	mg/L	0.00110	1.05%
Fe 234.349†	4518.0	0.1104	mg/L	0.00178	0.1104	mg/L	0.00178	1.61%
Mg 279.077†	20143.3	0.9204	mg/L	0.01005	0.9204	mg/L	0.01005	1.09%
Mn 257.610†	120684.9	0.1192	mg/L	0.00153	0.1192	mg/L	0.00153	1.28%
Mo 202.031†	15.0	0.0002	mg/L	0.00040	0.0002	mg/L	0.00040	221.45%
Na 330.237†	3337.0	7.640	mg/L	0.1103	7.640	mg/L	0.1103	1.44%
Ni 231.604†	25.1	-0.0005	mg/L	0.00035	-0.0005	mg/L	0.00035	77.36%
Pb 220.353†	8.1	0.0012	mg/L	0.00084	0.0012	mg/L	0.00084	67.90%
Sb 206.836†	-4.6	-0.0007	mg/L	0.00017	-0.0007	mg/L	0.00017	24.80%
Se 196.026†	1.0	0.0036	mg/L	0.00384	0.0036	mg/L	0.00384	107.26%
Sn 189.927†	-5.5	-0.0031	mg/L	0.00176	-0.0031	mg/L	0.00176	56.11%
Ti 337.279†	366.6	0.0009	mg/L	0.00002	0.0009	mg/L	0.00002	1.70%
Tl 190.801†	11.4	0.0132	mg/L	0.00198	0.0132	mg/L	0.00198	14.99%
V 292.402†	102.7	0.0011	mg/L	0.00026	0.0011	mg/L	0.00026	23.78%
Zn 213.857†	1046.8	0.0114	mg/L	0.00018	0.0114	mg/L	0.00018	1.54%

Dilution Check: BF62302-SD1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.0002	0.0007	0.000	mg/L	202.7
Al 237.313	0.0119	0.0194	0.003	mg/L	62.6
As 188.979	0.0002	0.0022	0.003	mg/L	1036.9
B 182.528	0.0113	0.0160	0.002	mg/L	41.5
Ba 233.527	0.0064	0.0066	0.000	mg/L	2.5

Be 313.107	0.0000	0.0000	0.000	mg/L	-227.5
Ca 315.886	4.921	5.055	0.027	mg/L	2.7
Cd 228.802	0.0001	0.0006	0.000	mg/L	419.7
Co 228.616	0.0000	-0.0007	0.000	mg/L	-1853.5
Cr 267.716	0.0003	-0.0004	0.000	mg/L	231.1
Cu 324.752	0.0022	0.0043	0.000	mg/L	99.5
Fe 238.204	0.1050	0.1054	0.001	mg/L	0.4
Fe 234.349	0.1077	0.1104	0.002	mg/L	2.5
Mg 279.077	0.9015	0.9204	0.010	mg/L	2.1
Mn 257.610	0.1184	0.1192	0.002	mg/L	0.7
Mo 202.031	0.0001	0.0002	0.000	mg/L	151.7
Na 330.237	7.831	7.640	0.110	mg/L	2.4
Ni 231.604	0.0003	-0.0005	0.000	mg/L	267.7
Pb 220.353	0.0010	0.0012	0.001	mg/L	30.4
Sb 206.836	0.0001	-0.0007	0.000	mg/L	1129.3
Se 196.026	0.0000	0.0036	0.004	mg/L	-16134.1
Sn 189.927	0.0030	-0.0031	0.002	mg/L	203.4
Ti 337.279	0.0006	0.0009	0.000	mg/L	46.2
Tl 190.801	0.0000	0.0132	0.002	mg/L	26833.6
V 292.402	0.0006	0.0011	0.000	mg/L	84.2
Zn 213.857	0.0097	0.0114	0.000	mg/L	17.7

Sequence No.: 61

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/23/2006 10:55:46 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2369126.5	2369126.5			22:57:20
1	Ag 328.068†	85010.8	84197.6	0.2477 mg/L	0.2477 mg/L	22:57:25
1	Al 237.313†	22441.9	22376.7	2.455 mg/L	2.455 mg/L	22:57:25
1	As 188.979†	607.7	600.3	0.5016 mg/L	0.5016 mg/L	22:57:46
1	B 182.528†	610.9	632.5	0.5073 mg/L	0.5073 mg/L	22:57:46
1	Ba 233.527†	92415.2	91011.8	0.4981 mg/L	0.4981 mg/L	22:57:25
1	Be 313.107†	327758.3	317122.2	0.0500 mg/L	0.0500 mg/L	22:57:20
1	Ca 315.886†	766100.9	750423.9	5.033 mg/L	5.033 mg/L	22:57:20
1	Cd 228.802†	21597.2	20840.8	0.2473 mg/L	0.2473 mg/L	22:57:25
1	Co 228.616†	36011.7	35804.4	0.4993 mg/L	0.4993 mg/L	22:57:25
1	Cr 267.716†	79261.1	76134.2	0.5004 mg/L	0.5004 mg/L	22:57:25
1	Cu 324.752†	93885.3	90975.9	0.4930 mg/L	0.4930 mg/L	22:57:25
1	Fe 238.204†	322461.7	316104.0	2.495 mg/L	2.495 mg/L	22:57:25
1	Fe 234.349†	104794.4	102798.3	2.488 mg/L	2.488 mg/L	22:57:25
1	Mg 279.077†	111816.0	110017.2	4.995 mg/L	4.995 mg/L	22:57:25
1	Mn 257.610†	514805.0	505367.3	0.5034 mg/L	0.5034 mg/L	22:57:20
1	Mo 202.031†	6771.8	6645.7	0.5033 mg/L	0.5033 mg/L	22:57:46
1	Na 330.237†	12323.4	10976.7	23.71 mg/L	23.71 mg/L	22:57:25
1	Ni 231.604†	29568.2	28710.3	0.5019 mg/L	0.5019 mg/L	22:57:25
1	Pb 220.353†	4534.0	4562.3	0.5035 mg/L	0.5035 mg/L	22:57:46
1	Sb 206.836†	1939.5	1826.1	0.4914 mg/L	0.4914 mg/L	22:57:46
1	Se 196.026†	722.3	713.1	1.002 mg/L	1.002 mg/L	22:57:46
1	Sn 189.927†	1682.6	1580.9	0.5023 mg/L	0.5023 mg/L	22:57:46
1	Ti 337.279†	399656.7	391971.2	0.4993 mg/L	0.4993 mg/L	22:57:20
1	Tl 190.801†	593.5	595.1	0.4940 mg/L	0.4940 mg/L	22:57:46
1	V 292.402†	127493.0	122933.4	0.5005 mg/L	0.5005 mg/L	22:57:25
1	Zn 213.857†	48225.6	46568.8	0.4949 mg/L	0.4949 mg/L	22:57:25
2	Y 360.073	2371156.6	2371156.6			22:57:52
2	Ag 328.068†	85691.2	84794.5	0.2495 mg/L	0.2495 mg/L	22:57:58
2	Al 237.313†	22584.1	22497.5	2.469 mg/L	2.469 mg/L	22:57:58
2	As 188.979†	609.9	601.9	0.5030 mg/L	0.5030 mg/L	22:58:18
2	B 182.528†	609.5	630.6	0.5058 mg/L	0.5058 mg/L	22:58:18
2	Ba 233.527†	93227.5	91732.1	0.5021 mg/L	0.5021 mg/L	22:57:58
2	Be 313.107†	327794.8	316882.2	0.0500 mg/L	0.0500 mg/L	22:57:52
2	Ca 315.886†	766803.5	750469.2	5.033 mg/L	5.033 mg/L	22:57:52
2	Cd 228.802†	21767.1	20989.5	0.2491 mg/L	0.2491 mg/L	22:57:58
2	Co 228.616†	36311.1	36068.2	0.5030 mg/L	0.5030 mg/L	22:57:58
2	Cr 267.716†	79818.2	76614.8	0.5036 mg/L	0.5036 mg/L	22:57:58

2	Cu 324.752†	94420.5	91422.6	0.4954 mg/L	0.4954 mg/L	22:57:58
2	Fe 238.204†	324949.9	318277.1	2.512 mg/L	2.512 mg/L	22:57:58
2	Fe 234.349†	105449.5	103353.8	2.501 mg/L	2.501 mg/L	22:57:58
2	Mg 279.077†	112544.4	110638.7	5.023 mg/L	5.023 mg/L	22:57:58
2	Mn 257.610†	514140.3	504280.8	0.5023 mg/L	0.5023 mg/L	22:57:52
2	Mo 202.031†	6786.9	6654.9	0.5040 mg/L	0.5040 mg/L	22:58:18
2	Na 330.237†	12467.3	11107.6	23.99 mg/L	23.99 mg/L	22:57:58
2	Ni 231.604†	29826.8	28939.6	0.5059 mg/L	0.5059 mg/L	22:57:58
2	Pb 220.353†	4566.5	4590.4	0.5066 mg/L	0.5066 mg/L	22:58:18
2	Sb 206.836†	1946.8	1831.7	0.4928 mg/L	0.4928 mg/L	22:58:18
2	Se 196.026†	724.6	714.7	1.004 mg/L	1.004 mg/L	22:58:18
2	Sn 189.927†	1691.4	1588.2	0.5046 mg/L	0.5046 mg/L	22:58:18
2	Ti 337.279†	399311.6	391295.7	0.4984 mg/L	0.4984 mg/L	22:57:52
2	Tl 190.801†	605.6	606.6	0.5034 mg/L	0.5034 mg/L	22:58:18
2	V 292.402†	128623.8	123937.0	0.5046 mg/L	0.5046 mg/L	22:57:58
2	Zn 213.857†	48557.3	46854.1	0.4979 mg/L	0.4979 mg/L	22:57:58

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2370141.5				1435.47	0.06%
Ag 328.068†	84496.1	0.2486 mg/L	0.00124	0.2486 mg/L	0.00124	0.50%
QC value within limits for Ag 328.068		Recovery = 99.43%				
Al 237.313†	22437.1	2.462 mg/L	0.0094	2.462 mg/L	0.0094	0.38%
QC value within limits for Al 237.313		Recovery = 98.48%				
As 188.979†	601.1	0.5023 mg/L	0.00097	0.5023 mg/L	0.00097	0.19%
QC value within limits for As 188.979		Recovery = 100.45%				
B 182.528†	631.5	0.5066 mg/L	0.00107	0.5066 mg/L	0.00107	0.21%
QC value within limits for B 182.528		Recovery = 101.31%				
Ba 233.527†	91371.9	0.5001 mg/L	0.00279	0.5001 mg/L	0.00279	0.56%
QC value within limits for Ba 233.527		Recovery = 100.02%				
Be 313.107†	317002.2	0.0500 mg/L	0.00003	0.0500 mg/L	0.00003	0.05%
QC value within limits for Be 313.107		Recovery = 100.03%				
Ca 315.886†	750446.5	5.033 mg/L	0.0002	5.033 mg/L	0.0002	0.00%
QC value within limits for Ca 315.886		Recovery = 100.66%				
Cd 228.802†	20915.1	0.2482 mg/L	0.00125	0.2482 mg/L	0.00125	0.50%
QC value within limits for Cd 228.802		Recovery = 99.29%				
Co 228.616†	35936.3	0.5012 mg/L	0.00261	0.5012 mg/L	0.00261	0.52%
QC value within limits for Co 228.616		Recovery = 100.23%				
Cr 267.716†	76374.5	0.5020 mg/L	0.00224	0.5020 mg/L	0.00224	0.45%
QC value within limits for Cr 267.716		Recovery = 100.40%				
Cu 324.752†	91199.3	0.4942 mg/L	0.00170	0.4942 mg/L	0.00170	0.34%
QC value within limits for Cu 324.752		Recovery = 98.85%				
Fe 238.204†	317190.5	2.503 mg/L	0.0121	2.503 mg/L	0.0121	0.48%
QC value within limits for Fe 238.204		Recovery = 100.12%				
Fe 234.349†	103076.0	2.495 mg/L	0.0095	2.495 mg/L	0.0095	0.38%
QC value within limits for Fe 234.349		Recovery = 99.78%				
Mg 279.077†	110327.9	5.009 mg/L	0.0199	5.009 mg/L	0.0199	0.40%
QC value within limits for Mg 279.077		Recovery = 100.17%				
Mn 257.610†	504824.0	0.5028 mg/L	0.00077	0.5028 mg/L	0.00077	0.15%
QC value within limits for Mn 257.610		Recovery = 100.56%				
Mo 202.031†	6650.3	0.5036 mg/L	0.00049	0.5036 mg/L	0.00049	0.10%
QC value within limits for Mo 202.031		Recovery = 100.72%				
Na 330.237†	11042.1	23.85 mg/L	0.195	23.85 mg/L	0.195	0.82%
QC value within limits for Na 330.237		Recovery = 95.40%				
Ni 231.604†	28824.9	0.5039 mg/L	0.00284	0.5039 mg/L	0.00284	0.56%
QC value within limits for Ni 231.604		Recovery = 100.78%				
Pb 220.353†	4576.3	0.5051 mg/L	0.00218	0.5051 mg/L	0.00218	0.43%
QC value within limits for Pb 220.353		Recovery = 101.02%				
Sb 206.836†	1828.9	0.4921 mg/L	0.00104	0.4921 mg/L	0.00104	0.21%
QC value within limits for Sb 206.836		Recovery = 98.42%				
Se 196.026†	713.9	1.003 mg/L	0.0016	1.003 mg/L	0.0016	0.16%
QC value within limits for Se 196.026		Recovery = 100.32%				
Sn 189.927†	1584.6	0.5034 mg/L	0.00163	0.5034 mg/L	0.00163	0.32%
QC value within limits for Sn 189.927		Recovery = 100.68%				
Ti 337.279†	391633.4	0.4988 mg/L	0.00061	0.4988 mg/L	0.00061	0.12%
QC value within limits for Ti 337.279		Recovery = 99.76%				
Tl 190.801†	600.8	0.4987 mg/L	0.00665	0.4987 mg/L	0.00665	1.33%
QC value within limits for Tl 190.801		Recovery = 99.75%				
V 292.402†	123435.2	0.5025 mg/L	0.00288	0.5025 mg/L	0.00288	0.57%

QC value within limits for V 292.402 Recovery = 100.50%  
 Zn 213.857† 46711.4 0.4964 mg/L 0.00214 0.4964 mg/L 0.00214 0.43%  
 QC value within limits for Zn 213.857 Recovery = 99.28%  
 All analyte(s) passed QC.

Sequence No.: 62  
 Sample ID: ICCB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 1  
 Date Collected: 6/23/2006 10:59:56 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2360810.1	2360810.1			23:01:27
1	Ag 328.068†	-560.1	53.6	0.0009 mg/L	0.0009 mg/L	23:01:32
1	Al 237.313†	-293.1	20.3	0.0091 mg/L	0.0091 mg/L	23:01:53
1	As 188.979†	-0.0	2.7	-0.0002 mg/L	-0.0002 mg/L	23:01:53
1	B 182.528†	-17.5	14.5	0.0110 mg/L	0.0110 mg/L	23:01:53
1	Ba 233.527†	-136.9	4.7	-0.0001 mg/L	-0.0001 mg/L	23:01:53
1	Be 313.107†	5331.5	97.7	0.0000 mg/L	0.0000 mg/L	23:01:32
1	Ca 315.886†	3819.1	883.5	-0.0015 mg/L	-0.0015 mg/L	23:01:32
1	Cd 228.802†	408.8	7.5	0.0007 mg/L	0.0007 mg/L	23:01:53
1	Co 228.616†	-393.2	6.0	-0.0009 mg/L	-0.0009 mg/L	23:01:53
1	Cr 267.716†	1755.1	-71.5	-0.0010 mg/L	-0.0010 mg/L	23:01:32
1	Cu 324.752†	1431.9	71.2	0.0031 mg/L	0.0031 mg/L	23:01:32
1	Fe 238.204†	753.4	-230.0	-0.0029 mg/L	-0.0029 mg/L	23:01:53
1	Fe 234.349†	164.0	-84.5	-0.0012 mg/L	-0.0012 mg/L	23:01:53
1	Mg 279.077†	82.8	150.0	0.0130 mg/L	0.0130 mg/L	23:01:32
1	Mn 257.610†	1042.8	187.2	-0.0012 mg/L	-0.0012 mg/L	23:01:32
1	Mo 202.031†	34.7	21.2	0.0006 mg/L	0.0006 mg/L	23:01:53
1	Na 330.237†	1130.3	-25.7	0.5638 mg/L	0.5638 mg/L	23:01:32
1	Ni 231.604†	371.3	2.2	-0.0009 mg/L	-0.0009 mg/L	23:01:53
1	Pb 220.353†	-91.7	13.5	0.0018 mg/L	0.0018 mg/L	23:01:53
1	Sb 206.836†	84.0	2.0	0.0011 mg/L	0.0011 mg/L	23:01:53
1	Se 196.026†	-4.3	-1.4	0.0001 mg/L	0.0001 mg/L	23:01:53
1	Sn 189.927†	47.9	-26.3	-0.0098 mg/L	-0.0098 mg/L	23:01:53
1	Ti 337.279†	1139.2	111.9	0.0006 mg/L	0.0006 mg/L	23:01:32
1	Tl 190.801†	7.2	18.6	0.0175 mg/L	0.0175 mg/L	23:01:53
1	V 292.402†	2479.0	15.4	0.0007 mg/L	0.0007 mg/L	23:01:32
1	Zn 213.857†	885.0	21.8	0.0004 mg/L	0.0004 mg/L	23:01:53
2	Y 360.073	2377551.7	2377551.7			23:01:58
2	Ag 328.068†	-548.8	68.6	0.0010 mg/L	0.0010 mg/L	23:02:03
2	Al 237.313†	-300.3	15.3	0.0085 mg/L	0.0085 mg/L	23:02:24
2	As 188.979†	-0.1	2.6	-0.0002 mg/L	-0.0002 mg/L	23:02:24
2	B 182.528†	-21.6	10.6	0.0078 mg/L	0.0078 mg/L	23:02:24
2	Ba 233.527†	-130.8	11.6	0.0000 mg/L	0.0000 mg/L	23:02:24
2	Be 313.107†	5294.3	24.2	0.0000 mg/L	0.0000 mg/L	23:02:03
2	Ca 315.886†	3245.3	294.8	-0.0055 mg/L	-0.0055 mg/L	23:02:03
2	Cd 228.802†	395.5	-8.3	0.0005 mg/L	0.0005 mg/L	23:02:24
2	Co 228.616†	-401.4	0.8	-0.0010 mg/L	-0.0010 mg/L	23:02:24
2	Cr 267.716†	1820.0	-20.1	-0.0007 mg/L	-0.0007 mg/L	23:02:03
2	Cu 324.752†	1398.0	28.0	0.0028 mg/L	0.0028 mg/L	23:02:03
2	Fe 238.204†	724.3	-263.8	-0.0031 mg/L	-0.0031 mg/L	23:02:24
2	Fe 234.349†	174.9	-74.9	-0.0009 mg/L	-0.0009 mg/L	23:02:24
2	Mg 279.077†	83.6	150.2	0.0130 mg/L	0.0130 mg/L	23:02:03
2	Mn 257.610†	1023.1	160.7	-0.0012 mg/L	-0.0012 mg/L	23:02:03
2	Mo 202.031†	33.8	20.1	0.0006 mg/L	0.0006 mg/L	23:02:24
2	Na 330.237†	1131.5	-32.3	0.5498 mg/L	0.5498 mg/L	23:02:03
2	Ni 231.604†	372.2	0.6	-0.0009 mg/L	-0.0009 mg/L	23:02:24
2	Pb 220.353†	-109.9	-3.7	-0.0001 mg/L	-0.0001 mg/L	23:02:24
2	Sb 206.836†	79.2	-3.3	-0.0003 mg/L	-0.0003 mg/L	23:02:24
2	Se 196.026†	-8.0	-5.0	-0.0049 mg/L	-0.0049 mg/L	23:02:24
2	Sn 189.927†	39.6	-34.8	-0.0125 mg/L	-0.0125 mg/L	23:02:24
2	Ti 337.279†	1033.4	0.3	0.0004 mg/L	0.0004 mg/L	23:02:03
2	Tl 190.801†	10.6	22.0	0.0203 mg/L	0.0203 mg/L	23:02:24
2	V 292.402†	2433.0	-46.9	0.0005 mg/L	0.0005 mg/L	23:02:03
2	Zn 213.857†	878.0	8.8	0.0003 mg/L	0.0003 mg/L	23:02:24

## Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2369180.9				11838.10	0.50%
Ag 328.068†	61.1	0.0009 mg/L	0.00003	0.0009 mg/L	0.00003	3.34%
QC value within limits for Ag 328.068		Recovery = Not calculated				
Al 237.313†	17.8	0.0088 mg/L	0.00039	0.0088 mg/L	0.00039	4.47%
QC value within limits for Al 237.313		Recovery = Not calculated				
As 188.979†	2.6	-0.0002 mg/L	0.00003	-0.0002 mg/L	0.00003	13.56%
QC value within limits for As 188.979		Recovery = Not calculated				
B 182.528†	12.5	0.0094 mg/L	0.00225	0.0094 mg/L	0.00225	23.99%
QC value within limits for B 182.528		Recovery = Not calculated				
Ba 233.527†	8.1	0.0000 mg/L	0.00003	0.0000 mg/L	0.00003	71.85%
QC value within limits for Ba 233.527		Recovery = Not calculated				
Be 313.107†	60.9	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	110.69%
QC value within limits for Be 313.107		Recovery = Not calculated				
Ca 315.886†	589.2	-0.0035 mg/L	0.00280	-0.0035 mg/L	0.00280	80.48%
QC value within limits for Ca 315.886		Recovery = Not calculated				
Cd 228.802†	-0.4	0.0006 mg/L	0.00013	0.0006 mg/L	0.00013	21.19%
QC value within limits for Cd 228.802		Recovery = Not calculated				
Co 228.616†	3.4	-0.0009 mg/L	0.00005	-0.0009 mg/L	0.00005	5.46%
QC value within limits for Co 228.616		Recovery = Not calculated				
Cr 267.716†	-45.8	-0.0009 mg/L	0.00024	-0.0009 mg/L	0.00024	27.96%
QC value within limits for Cr 267.716		Recovery = Not calculated				
Cu 324.752†	49.6	0.0029 mg/L	0.00016	0.0029 mg/L	0.00016	5.57%
QC value within limits for Cu 324.752		Recovery = Not calculated				
Fe 238.204†	-246.9	-0.0030 mg/L	0.00019	-0.0030 mg/L	0.00019	6.27%
QC value within limits for Fe 238.204		Recovery = Not calculated				
Fe 234.349†	-79.7	-0.0011 mg/L	0.00016	-0.0011 mg/L	0.00016	15.49%
QC value within limits for Fe 234.349		Recovery = Not calculated				
Mg 279.077†	150.1	0.0130 mg/L	0.00001	0.0130 mg/L	0.00001	0.06%
QC value within limits for Mg 279.077		Recovery = Not calculated				
Mn 257.610†	174.0	-0.0012 mg/L	0.00002	-0.0012 mg/L	0.00002	1.58%
QC value within limits for Mn 257.610		Recovery = Not calculated				
Mo 202.031†	20.6	0.0006 mg/L	0.00006	0.0006 mg/L	0.00006	10.16%
QC value within limits for Mo 202.031		Recovery = Not calculated				
Na 330.237†	-29.0	0.5568 mg/L	0.00994	0.5568 mg/L	0.00994	1.78%
QC value within limits for Na 330.237		Recovery = Not calculated				
Ni 231.604†	1.4	-0.0009 mg/L	0.00002	-0.0009 mg/L	0.00002	2.33%
QC value within limits for Ni 231.604		Recovery = Not calculated				
Pb 220.353†	4.9	0.0009 mg/L	0.00134	0.0009 mg/L	0.00134	149.87%
QC value within limits for Pb 220.353		Recovery = Not calculated				
Sb 206.836†	-0.7	0.0004 mg/L	0.00101	0.0004 mg/L	0.00101	255.78%
QC value within limits for Sb 206.836		Recovery = Not calculated				
Se 196.026†	-3.2	-0.0024 mg/L	0.00354	-0.0024 mg/L	0.00354	146.72%
QC value within limits for Se 196.026		Recovery = Not calculated				
Sn 189.927†	-30.6	-0.0111 mg/L	0.00190	-0.0111 mg/L	0.00190	17.07%
QC value within limits for Sn 189.927		Recovery = Not calculated				
Ti 337.279†	56.1	0.0005 mg/L	0.00010	0.0005 mg/L	0.00010	19.46%
QC value within limits for Ti 337.279		Recovery = Not calculated				
Tl 190.801†	20.3	0.0189 mg/L	0.00195	0.0189 mg/L	0.00195	10.30%
QC value within limits for Tl 190.801		Recovery = Not calculated				
V 292.402†	-15.7	0.0006 mg/L	0.00018	0.0006 mg/L	0.00018	28.87%
QC value within limits for V 292.402		Recovery = Not calculated				
Zn 213.857†	15.3	0.0004 mg/L	0.00010	0.0004 mg/L	0.00010	27.37%
QC value within limits for Zn 213.857		Recovery = Not calculated				

All analyte(s) passed QC.

Sequence No.: 63

Sample ID: BF62302-PDS1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 49

Date Collected: 6/23/2006 11:04:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

## Replicate Data: BF62302-PDS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2384609.3	2384609.3			23:05:32



1	Ag 328.068†	82989.4	81680.1	0.2403 mg/L	0.2403 mg/L	23:05:3
1	Al 237.313†	22298.0	22092.8	2.415 mg/L	2.415 mg/L	23:05:3
1	As 188.979†	591.3	580.3	0.4842 mg/L	0.4842 mg/L	23:05:5
1	B 182.528†	649.8	666.6	0.5348 mg/L	0.5348 mg/L	23:05:5
1	Ba 233.527†	93345.4	91330.6	0.4999 mg/L	0.4999 mg/L	23:05:3
1	Be 313.107†	326344.3	313648.4	0.0495 mg/L	0.0495 mg/L	23:05:3
1	Ca 315.886†	4505884.2	4398994.7	29.54 mg/L	29.54 mg/L	23:05:3
1	Cd 228.802†	20900.1	20021.8	0.2377 mg/L	0.2377 mg/L	23:05:3
1	Co 228.616†	34120.8	33727.3	0.4705 mg/L	0.4705 mg/L	23:05:3
1	Cr 267.716†	77164.6	73580.1	0.4835 mg/L	0.4835 mg/L	23:05:3
1	Cu 324.752†	93437.2	89938.8	0.4874 mg/L	0.4874 mg/L	23:05:3
1	Fe 238.204†	379890.0	370148.0	2.921 mg/L	2.921 mg/L	23:05:3
1	Fe 234.349†	123680.5	120579.5	2.919 mg/L	2.919 mg/L	23:05:3
1	Mg 279.077†	205563.1	200886.6	9.119 mg/L	9.119 mg/L	23:05:3
1	Mn 257.610†	1094110.4	1068014.4	1.065 mg/L	1.065 mg/L	23:05:3
1	Mo 202.031†	6537.0	6373.1	0.4826 mg/L	0.4826 mg/L	23:05:5
1	Na 330.237†	32007.5	30127.7	64.01 mg/L	64.01 mg/L	23:05:3
1	Ni 231.604†	28507.8	27485.7	0.4804 mg/L	0.4804 mg/L	23:05:3
1	Pb 220.353†	4364.0	4367.3	0.4820 mg/L	0.4820 mg/L	23:05:5
1	Sb 206.836†	1849.0	1725.3	0.4641 mg/L	0.4641 mg/L	23:05:5
1	Se 196.026†	706.4	692.9	0.9737 mg/L	0.9737 mg/L	23:05:5
1	Sn 189.927†	1756.9	1642.7	0.5217 mg/L	0.5217 mg/L	23:05:5
1	Ti 337.279†	309269.8	301119.1	0.3836 mg/L	0.3836 mg/L	23:05:3
1	Tl 190.801†	546.5	545.4	0.4610 mg/L	0.4610 mg/L	23:05:5
1	V 292.402†	123391.6	118112.7	0.4810 mg/L	0.4810 mg/L	23:05:3
1	Zn 213.857†	51036.9	49007.3	0.5210 mg/L	0.5210 mg/L	23:05:3
2	Y 360.073	2374770.3	2374770.3			23:06:0
2	Ag 328.068†	84186.4	83190.3	0.2447 mg/L	0.2447 mg/L	23:06:1
2	Al 237.313†	22633.4	22512.1	2.461 mg/L	2.461 mg/L	23:06:1
2	As 188.979†	590.2	581.6	0.4853 mg/L	0.4853 mg/L	23:06:3
2	B 182.528†	655.5	674.8	0.5414 mg/L	0.5414 mg/L	23:06:3
2	Ba 233.527†	94273.7	92619.0	0.5070 mg/L	0.5070 mg/L	23:06:1
2	Be 313.107†	325271.4	313916.8	0.0495 mg/L	0.0495 mg/L	23:06:0
2	Ca 315.886†	4494409.7	4405976.2	29.58 mg/L	29.58 mg/L	23:06:0
2	Cd 228.802†	21060.6	20263.9	0.2405 mg/L	0.2405 mg/L	23:06:1
2	Co 228.616†	34492.3	34229.8	0.4775 mg/L	0.4775 mg/L	23:06:1
2	Cr 267.716†	77900.9	74614.6	0.4903 mg/L	0.4903 mg/L	23:06:1
2	Cu 324.752†	95430.4	92272.1	0.5000 mg/L	0.5000 mg/L	23:06:1
2	Fe 238.204†	383893.9	375613.2	2.964 mg/L	2.964 mg/L	23:06:1
2	Fe 234.349†	125090.0	122462.7	2.965 mg/L	2.965 mg/L	23:06:1
2	Mg 279.077†	207300.8	203423.2	9.234 mg/L	9.234 mg/L	23:06:1
2	Mn 257.610†	1090977.4	1069369.5	1.067 mg/L	1.067 mg/L	23:06:0
2	Mo 202.031†	6536.0	6398.6	0.4846 mg/L	0.4846 mg/L	23:06:3
2	Na 330.237†	32318.7	30562.5	64.93 mg/L	64.93 mg/L	23:06:1
2	Ni 231.604†	28848.9	27935.6	0.4883 mg/L	0.4883 mg/L	23:06:1
2	Pb 220.353†	4349.0	4370.2	0.4823 mg/L	0.4823 mg/L	23:06:3
2	Sb 206.836†	1848.0	1731.8	0.4658 mg/L	0.4658 mg/L	23:06:3
2	Se 196.026†	708.6	697.9	0.9808 mg/L	0.9808 mg/L	23:06:3
2	Sn 189.927†	1752.2	1645.2	0.5225 mg/L	0.5225 mg/L	23:06:3
2	Ti 337.279†	312868.8	305901.4	0.3897 mg/L	0.3897 mg/L	23:06:1
2	Tl 190.801†	570.6	571.2	0.4823 mg/L	0.4823 mg/L	23:06:3
2	V 292.402†	124880.3	120072.5	0.4889 mg/L	0.4889 mg/L	23:06:1
2	Zn 213.857†	51473.1	49641.8	0.5277 mg/L	0.5277 mg/L	23:06:1

Mean Data: BF62302-PDS1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2379689.8				6957.22	0.29%
Ag 328.068†	82435.2	0.2425 mg/L	0.00313	0.2425 mg/L	0.00313	1.29%
Al 237.313†	22302.5	2.438 mg/L	0.0324	2.438 mg/L	0.0324	1.33%
As 188.979†	581.0	0.4848 mg/L	0.00078	0.4848 mg/L	0.00078	0.16%
B 182.528†	670.7	0.5381 mg/L	0.00466	0.5381 mg/L	0.00466	0.87%
Ba 233.527†	91974.8	0.5034 mg/L	0.00499	0.5034 mg/L	0.00499	0.99%
Be 313.107†	313782.6	0.0495 mg/L	0.00003	0.0495 mg/L	0.00003	0.06%
Ca 315.886†	4402485.5	29.56 mg/L	0.033	29.56 mg/L	0.033	0.11%
Cd 228.802†	20142.9	0.2391 mg/L	0.00203	0.2391 mg/L	0.00203	0.85%
Co 228.616†	33978.5	0.4740 mg/L	0.00497	0.4740 mg/L	0.00497	1.05%
Cr 267.716†	74097.4	0.4869 mg/L	0.00482	0.4869 mg/L	0.00482	0.99%
Cu 324.752†	91105.5	0.4937 mg/L	0.00889	0.4937 mg/L	0.00889	1.80%
Fe 238.204†	372880.6	2.943 mg/L	0.0305	2.943 mg/L	0.0305	1.04%

Fe 234.349†	121521.1	2.942 mg/L	0.0322	2.942 mg/L	0.0322	1.10%
Mg 279.077†	202154.9	9.177 mg/L	0.0813	9.177 mg/L	0.0813	0.89%
Mn 257.610†	1068691.9	1.066 mg/L	0.0010	1.066 mg/L	0.0010	0.09%
Mo 202.031†	6385.8	0.4836 mg/L	0.00137	0.4836 mg/L	0.00137	0.28%
Na 330.237†	30345.1	64.47 mg/L	0.647	64.47 mg/L	0.647	1.00%
Ni 231.604†	27710.7	0.4844 mg/L	0.00557	0.4844 mg/L	0.00557	1.15%
Pb 220.353†	4368.7	0.4821 mg/L	0.00024	0.4821 mg/L	0.00024	0.05%
Sb 206.836†	1728.6	0.4650 mg/L	0.00119	0.4650 mg/L	0.00119	0.26%
Se 196.026†	695.4	0.9772 mg/L	0.00498	0.9772 mg/L	0.00498	0.51%
Sn 189.927†	1644.0	0.5221 mg/L	0.00057	0.5221 mg/L	0.00057	0.11%
Ti 337.279†	303510.2	0.3867 mg/L	0.00430	0.3867 mg/L	0.00430	1.11%
Tl 190.801†	558.3	0.4716 mg/L	0.01503	0.4716 mg/L	0.01503	3.19%
V 292.402†	119092.6	0.4850 mg/L	0.00563	0.4850 mg/L	0.00563	1.16%
Zn 213.857†	49324.5	0.5244 mg/L	0.00476	0.5244 mg/L	0.00476	0.91%

Matrix Recovery Check: BF62302-PDS1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	0.2512	0.2425	0.003	mg/L	96.5
Al 237.313	2.560	2.438	0.032	mg/L	95.1
As 188.979	0.5010	0.4848	0.001	mg/L	96.8
B 182.528	0.5564	0.5381	0.005	mg/L	96.3
Ba 233.527	0.5321	0.5034	0.005	mg/L	94.3
Be 313.107	0.0500	0.0495	0.000	mg/L	99.1
Ca 315.886	29.61	29.56	0.033	mg/L	99.1
Cd 228.802	0.2505	0.2391	0.002	mg/L	95.4
Co 228.616	0.4998	0.4740	0.005	mg/L	94.8
Cr 267.716	0.5014	0.4869	0.005	mg/L	97.1
Cu 324.752	0.5108	0.4937	0.009	mg/L	96.6
Fe 238.204	3.025	2.943	0.031	mg/L	96.7
Fe 234.349	3.039	2.942	0.032	mg/L	96.1
Mg 279.077	9.508	9.177	0.081	mg/L	93.4
Mn 257.610	1.092	1.066	0.001	mg/L	94.8
Mo 202.031	0.5004	0.4836	0.001	mg/L	96.6
Na 330.237	64.16	64.47	0.647	mg/L	101.3
Ni 231.604	0.5013	0.4844	0.006	mg/L	96.6
Pb 220.353	0.5048	0.4821	0.000	mg/L	95.5
Sb 206.836	0.5003	0.4650	0.001	mg/L	92.9
Se 196.026	0.9999	0.9772	0.005	mg/L	97.7
Sn 189.927	0.5152	0.5221	0.001	mg/L	101.4
Ti 337.279	0.5031	0.3867	0.004	mg/L	76.7
Tl 190.801	0.5002	0.4716	0.015	mg/L	94.3
V 292.402	0.5030	0.4850	0.006	mg/L	96.4
Zn 213.857	0.5484	0.5244	0.005	mg/L	95.2

Sequence No.: 64

Sample ID: 0606334-01 1/50

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 50

Date Collected: 6/23/2006 11:08:06 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 0606334-01 1/50

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2370655.3	2370655.3					23:09:36
1	Ag 328.068†	140017.7	138197.3	0.4059	mg/L	0.4059	mg/L	23:09:36
1	Al 237.313†	4029.0	4268.7	0.4773	mg/L	0.4773	mg/L	23:09:42
1	As 188.979†	0.5	3.2	0.0003	mg/L	0.0003	mg/L	23:10:02
1	B 182.528†	-13.0	19.0	0.0145	mg/L	0.0145	mg/L	23:10:02
1	Ba 233.527†	1232.8	1351.2	0.0073	mg/L	0.0073	mg/L	23:10:02
1	Be 313.107†	5268.3	13.7	0.0000	mg/L	0.0000	mg/L	23:09:42
1	Ca 315.886†	40937.4	37342.9	0.2434	mg/L	0.2434	mg/L	23:09:42
1	Cd 228.802†	391.7	-10.9	0.0005	mg/L	0.0005	mg/L	23:10:02
1	Co 228.616†	-378.6	22.0	-0.0007	mg/L	-0.0007	mg/L	23:10:02
1	Cr 267.716†	1963.7	126.2	0.0003	mg/L	0.0003	mg/L	23:09:42
1	Cu 324.752†	10089.7	8573.0	0.0489	mg/L	0.0489	mg/L	23:09:42
1	Fe 238.204†	11604.8	10430.2	0.0813	mg/L	0.0813	mg/L	23:09:42
1	Fe 234.349†	3700.1	3389.8	0.0830	mg/L	0.0830	mg/L	23:09:42

2	B 182.528†	611.7	625.3	0.5016 mg/L	0.5016 mg/L	23:48:59
2	Ba 233.527†	93412.9	90784.3	0.4969 mg/L	0.4969 mg/L	23:48:39
2	Be 313.107†	331118.9	316142.6	0.0499 mg/L	0.0499 mg/L	23:48:34
2	Ca 315.886†	776330.3	750437.8	5.033 mg/L	5.033 mg/L	23:48:34
2	Cd 228.802†	21841.9	20798.8	0.2469 mg/L	0.2469 mg/L	23:48:39
2	Co 228.616†	36384.6	35700.4	0.4979 mg/L	0.4979 mg/L	23:48:39
2	Cr 267.716†	79952.3	75779.4	0.4981 mg/L	0.4981 mg/L	23:48:39
2	Cu 324.752†	95355.6	91187.9	0.4942 mg/L	0.4942 mg/L	23:48:39
2	Fe 238.204†	326254.4	315612.0	2.491 mg/L	2.491 mg/L	23:48:39
2	Fe 234.349†	106023.7	102635.3	2.484 mg/L	2.484 mg/L	23:48:39
2	Mg 279.077†	112627.1	109357.5	4.965 mg/L	4.965 mg/L	23:48:39
2	Mn 257.610†	520077.4	503822.6	0.5018 mg/L	0.5018 mg/L	23:48:34
2	Mo 202.031†	6778.8	6564.8	0.4971 mg/L	0.4971 mg/L	23:48:59
2	Na 330.237†	12539.6	11027.0	23.82 mg/L	23.82 mg/L	23:48:39
2	Ni 231.604†	29831.3	28583.0	0.4996 mg/L	0.4996 mg/L	23:48:39
2	Pb 220.353†	4551.0	4520.1	0.4989 mg/L	0.4989 mg/L	23:48:59
2	Sb 206.836†	1945.4	1806.8	0.4861 mg/L	0.4861 mg/L	23:48:59
2	Se 196.026†	730.3	711.4	0.9998 mg/L	0.9998 mg/L	23:48:59
2	Sn 189.927†	1689.1	1565.5	0.4974 mg/L	0.4974 mg/L	23:48:59
2	Ti 337.279†	404863.3	391852.5	0.4991 mg/L	0.4991 mg/L	23:48:34
2	Tl 190.801†	600.3	594.1	0.4932 mg/L	0.4932 mg/L	23:48:59
2	V 292.402†	129099.3	122842.5	0.5001 mg/L	0.5001 mg/L	23:48:39
2	Zn 213.857†	49142.7	46834.7	0.4978 mg/L	0.4978 mg/L	23:48:39

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2396414.5				6082.83	0.25%
Ag 328.068†	84091.6	0.2474 mg/L	0.00009	0.2474 mg/L	0.00009	0.04%
QC value within limits for Ag 328.068		Recovery = 98.96%				
Al 237.313†	22405.3	2.459 mg/L	0.0072	2.459 mg/L	0.0072	0.29%
QC value within limits for Al 237.313		Recovery = 98.34%				
As 188.979†	598.7	0.5003 mg/L	0.00384	0.5003 mg/L	0.00384	0.77%
QC value within limits for As 188.979		Recovery = 100.05%				
B 182.528†	630.2	0.5055 mg/L	0.00553	0.5055 mg/L	0.00553	1.09%
QC value within limits for B 182.528		Recovery = 101.10%				
Ba 233.527†	90783.2	0.4969 mg/L	0.00001	0.4969 mg/L	0.00001	0.00%
QC value within limits for Ba 233.527		Recovery = 99.38%				
Be 313.107†	315913.5	0.0498 mg/L	0.00005	0.0498 mg/L	0.00005	0.10%
QC value within limits for Be 313.107		Recovery = 99.69%				
Ca 315.886†	750450.7	5.033 mg/L	0.0001	5.033 mg/L	0.0001	0.00%
QC value within limits for Ca 315.886		Recovery = 100.66%				
Cd 228.802†	20764.0	0.2464 mg/L	0.00060	0.2464 mg/L	0.00060	0.24%
QC value within limits for Cd 228.802		Recovery = 98.57%				
Co 228.616†	35736.8	0.4984 mg/L	0.00072	0.4984 mg/L	0.00072	0.14%
QC value within limits for Co 228.616		Recovery = 99.68%				
Cr 267.716†	75813.4	0.4983 mg/L	0.00032	0.4983 mg/L	0.00032	0.06%
QC value within limits for Cr 267.716		Recovery = 99.66%				
Cu 324.752†	90579.6	0.4909 mg/L	0.00463	0.4909 mg/L	0.00463	0.94%
QC value within limits for Cu 324.752		Recovery = 98.18%				
Fe 238.204†	315531.1	2.490 mg/L	0.0009	2.490 mg/L	0.0009	0.04%
QC value within limits for Fe 238.204		Recovery = 99.60%				
Fe 234.349†	102590.8	2.483 mg/L	0.0015	2.483 mg/L	0.0015	0.06%
QC value within limits for Fe 234.349		Recovery = 99.31%				
Mg 279.077†	109538.8	4.973 mg/L	0.0116	4.973 mg/L	0.0116	0.23%
QC value within limits for Mg 279.077		Recovery = 99.46%				
Mn 257.610†	503639.6	0.5016 mg/L	0.00026	0.5016 mg/L	0.00026	0.05%
QC value within limits for Mn 257.610		Recovery = 100.33%				
Mo 202.031†	6602.7	0.5000 mg/L	0.00406	0.5000 mg/L	0.00406	0.81%
QC value within limits for Mo 202.031		Recovery = 100.00%				
Na 330.237†	11071.8	23.91 mg/L	0.134	23.91 mg/L	0.134	0.56%
QC value within limits for Na 330.237		Recovery = 95.65%				
Ni 231.604†	28604.3	0.5000 mg/L	0.00053	0.5000 mg/L	0.00053	0.11%
QC value within limits for Ni 231.604		Recovery = 100.00%				
Pb 220.353†	4540.7	0.5012 mg/L	0.00321	0.5012 mg/L	0.00321	0.64%
QC value within limits for Pb 220.353		Recovery = 100.23%				
Sb 206.836†	1821.2	0.4900 mg/L	0.00552	0.4900 mg/L	0.00552	1.13%
QC value within limits for Sb 206.836		Recovery = 98.01%				
Se 196.026†	710.8	0.9988 mg/L	0.00136	0.9988 mg/L	0.00136	0.14%
QC value within limits for Se 196.026		Recovery = 99.88%				

Sn 189.927†	1575.3	0.5005 mg/L	0.00443	0.5005 mg/L	0.00443	0.88%
QC value within limits for Sn 189.927 Recovery = 100.10%						
Ti 337.279†	391758.7	0.4990 mg/L	0.00017	0.4990 mg/L	0.00017	0.03%
QC value within limits for Ti 337.279 Recovery = 99.80%						
Tl 190.801†	588.5	0.4886 mg/L	0.00654	0.4886 mg/L	0.00654	1.34%
QC value within limits for Tl 190.801 Recovery = 97.71%						
V 292.402†	122898.2	0.5003 mg/L	0.00032	0.5003 mg/L	0.00032	0.06%
QC value within limits for V 292.402 Recovery = 100.06%						
Zn 213.857†	46859.1	0.4980 mg/L	0.00037	0.4980 mg/L	0.00037	0.07%
QC value within limits for Zn 213.857 Recovery = 99.60%						

All analyte(s) passed QC.

Sequence No.: 74  
 Sample ID: ICCB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 1  
 Date Collected: 6/23/2006 11:50:37 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	Y 360.073	2378955.2	2378955.2			23:52:08
1	Ag 328.068†	-588.6	29.9	0.0008 mg/L	0.0008 mg/L	23:52:13
1	Al 237.313†	-295.8	19.9	0.0090 mg/L	0.0090 mg/L	23:52:34
1	As 188.979†	2.6	5.3	0.0020 mg/L	0.0020 mg/L	23:52:34
1	B 182.528†	-17.6	14.5	0.0110 mg/L	0.0110 mg/L	23:52:34
1	Ba 233.527†	-119.2	23.1	0.0000 mg/L	0.0000 mg/L	23:52:34
1	Be 313.107†	5258.6	-13.8	0.0000 mg/L	0.0000 mg/L	23:52:13
1	Ca 315.886†	5030.9	2041.4	0.0063 mg/L	0.0063 mg/L	23:52:13
1	Cd 228.802†	409.3	5.0	0.0007 mg/L	0.0007 mg/L	23:52:34
1	Co 228.616†	-381.6	20.3	-0.0007 mg/L	-0.0007 mg/L	23:52:34
1	Cr 267.716†	1821.8	-19.5	-0.0007 mg/L	-0.0007 mg/L	23:52:13
1	Cu 324.752†	1523.2	149.8	0.0035 mg/L	0.0035 mg/L	23:52:13
1	Fe 238.204†	977.6	-16.1	-0.0012 mg/L	-0.0012 mg/L	23:52:34
1	Fe 234.349†	253.2	1.7	0.0009 mg/L	0.0009 mg/L	23:52:34
1	Mg 279.077†	14.9	82.8	0.0099 mg/L	0.0099 mg/L	23:52:13
1	Mn 257.610†	1409.9	538.9	-0.0008 mg/L	-0.0008 mg/L	23:52:13
1	Mo 202.031†	42.8	28.9	0.0012 mg/L	0.0012 mg/L	23:52:34
1	Na 330.237†	1175.7	10.3	0.6393 mg/L	0.6393 mg/L	23:52:13
1	Ni 231.604†	367.3	-4.4	-0.0010 mg/L	-0.0010 mg/L	23:52:34
1	Pb 220.353†	-109.0	-2.7	0.0001 mg/L	0.0001 mg/L	23:52:34
1	Sb 206.836†	76.3	-6.2	-0.0011 mg/L	-0.0011 mg/L	23:52:34
1	Se 196.026†	-4.7	-1.8	-0.0004 mg/L	-0.0004 mg/L	23:52:34
1	Sn 189.927†	46.0	-28.5	-0.0105 mg/L	-0.0105 mg/L	23:52:34
1	Ti 337.279†	1133.1	97.3	0.0006 mg/L	0.0006 mg/L	23:52:13
1	Tl 190.801†	7.0	18.4	0.0174 mg/L	0.0174 mg/L	23:52:34
1	V 292.402†	2418.3	-62.7	0.0004 mg/L	0.0004 mg/L	23:52:13
1	Zn 213.857†	1248.9	371.4	0.0042 mg/L	0.0042 mg/L	23:52:34
2	Y 360.073	2369803.6	2369803.6			23:52:39
2	Ag 328.068†	-576.9	39.2	0.0009 mg/L	0.0009 mg/L	23:52:44
2	Al 237.313†	-307.0	7.7	0.0077 mg/L	0.0077 mg/L	23:53:05
2	As 188.979†	2.4	5.1	0.0019 mg/L	0.0019 mg/L	23:53:05
2	B 182.528†	-16.6	15.5	0.0117 mg/L	0.0117 mg/L	23:53:05
2	Ba 233.527†	-103.9	37.6	0.0001 mg/L	0.0001 mg/L	23:53:05
2	Be 313.107†	5315.7	62.1	0.0000 mg/L	0.0000 mg/L	23:52:44
2	Ca 315.886†	4792.6	1826.2	0.0048 mg/L	0.0048 mg/L	23:52:44
2	Cd 228.802†	395.8	-6.7	0.0005 mg/L	0.0005 mg/L	23:53:05
2	Co 228.616†	-384.4	16.2	-0.0008 mg/L	-0.0008 mg/L	23:53:05
2	Cr 267.716†	1819.8	-14.6	-0.0006 mg/L	-0.0006 mg/L	23:52:44
2	Cu 324.752†	1522.1	154.5	0.0035 mg/L	0.0035 mg/L	23:52:44
2	Fe 238.204†	943.9	-45.5	-0.0014 mg/L	-0.0014 mg/L	23:53:05
2	Fe 234.349†	245.7	-4.8	0.0008 mg/L	0.0008 mg/L	23:53:05
2	Mg 279.077†	18.9	86.8	0.0101 mg/L	0.0101 mg/L	23:52:44
2	Mn 257.610†	1368.8	503.8	-0.0009 mg/L	-0.0009 mg/L	23:52:44
2	Mo 202.031†	38.9	25.2	0.0010 mg/L	0.0010 mg/L	23:53:05
2	Na 330.237†	1151.4	-9.1	0.5985 mg/L	0.5985 mg/L	23:52:44
2	Ni 231.604†	375.9	5.3	-0.0008 mg/L	-0.0008 mg/L	23:53:05
2	Pb 220.353†	-128.2	-22.0	-0.0021 mg/L	-0.0021 mg/L	23:53:05
2	Sb 206.836†	86.9	4.5	0.0018 mg/L	0.0018 mg/L	23:53:05

2	Se 196.026†	-2.0	0.8	0.0032 mg/L	0.0032 mg/L	23:53:05
2	Sn 189.927†	40.5	-33.7	-0.0121 mg/L	-0.0121 mg/L	23:53:05
2	Ti 337.279†	1097.9	67.1	0.0005 mg/L	0.0005 mg/L	23:52:44
2	Tl 190.801†	6.0	17.4	0.0166 mg/L	0.0166 mg/L	23:53:05
2	V 292.402†	2396.7	-74.7	0.0004 mg/L	0.0004 mg/L	23:52:44
2	Zn 213.857†	1237.9	365.3	0.0041 mg/L	0.0041 mg/L	23:53:05

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Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 360.073	2374379.4				6471.12	0.27%
Ag 328.068†	34.5	0.0009 mg/L	0.00002	0.0009 mg/L	0.00002	2.27%
QC value within limits for Ag 328.068		Recovery =	Not calculated			
Al 237.313†	13.8	0.0084 mg/L	0.00095	0.0084 mg/L	0.00095	11.34%
QC value within limits for Al 237.313		Recovery =	Not calculated			
As 188.979†	5.2	0.0019 mg/L	0.00011	0.0019 mg/L	0.00011	5.73%
QC value within limits for As 188.979		Recovery =	Not calculated			
B 182.528†	15.0	0.0114 mg/L	0.00055	0.0114 mg/L	0.00055	4.83%
QC value within limits for B 182.528		Recovery =	Not calculated			
Ba 233.527†	30.3	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	66.89%
QC value within limits for Ba 233.527		Recovery =	Not calculated			
Be 313.107†	24.2	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	64.37%
QC value within limits for Be 313.107		Recovery =	Not calculated			
Ca 315.886†	1933.8	0.0056 mg/L	0.00102	0.0056 mg/L	0.00102	18.40%
QC value within limits for Ca 315.886		Recovery =	Not calculated			
Cd 228.802†	-0.9	0.0006 mg/L	0.00010	0.0006 mg/L	0.00010	15.93%
QC value within limits for Cd 228.802		Recovery =	Not calculated			
Co 228.616†	18.2	-0.0007 mg/L	0.00004	-0.0007 mg/L	0.00004	5.58%
QC value within limits for Co 228.616		Recovery =	Not calculated			
Cr 267.716†	-17.0	-0.0007 mg/L	0.00002	-0.0007 mg/L	0.00002	3.43%
QC value within limits for Cr 267.716		Recovery =	Not calculated			
Cu 324.752†	152.1	0.0035 mg/L	0.00002	0.0035 mg/L	0.00002	0.51%
QC value within limits for Cu 324.752		Recovery =	Not calculated			
Fe 238.204†	-30.8	-0.0013 mg/L	0.00016	-0.0013 mg/L	0.00016	12.55%
QC value within limits for Fe 238.204		Recovery =	Not calculated			
Fe 234.349†	-1.6	0.0008 mg/L	0.00011	0.0008 mg/L	0.00011	13.35%
QC value within limits for Fe 234.349		Recovery =	Not calculated			
Mg 279.077†	84.8	0.0100 mg/L	0.00013	0.0100 mg/L	0.00013	1.28%
QC value within limits for Mg 279.077		Recovery =	Not calculated			
Mn 257.610†	521.3	-0.0008 mg/L	0.00002	-0.0008 mg/L	0.00002	2.97%
QC value within limits for Mn 257.610		Recovery =	Not calculated			
Mo 202.031†	27.1	0.0011 mg/L	0.00019	0.0011 mg/L	0.00019	17.75%
QC value within limits for Mo 202.031		Recovery =	Not calculated			
Na 330.237†	0.6	0.6189 mg/L	0.02887	0.6189 mg/L	0.02887	4.67%
QC value within limits for Na 330.237		Recovery =	Not calculated			
Ni 231.604†	0.5	-0.0009 mg/L	0.00012	-0.0009 mg/L	0.00012	13.72%
QC value within limits for Ni 231.604		Recovery =	Not calculated			
Pb 220.353†	-12.4	-0.0010 mg/L	0.00150	-0.0010 mg/L	0.00150	149.22%
QC value within limits for Pb 220.353		Recovery =	Not calculated			
Sb 206.836†	-0.9	0.0003 mg/L	0.00206	0.0003 mg/L	0.00206	611.99%
QC value within limits for Sb 206.836		Recovery =	Not calculated			
Se 196.026†	-0.5	0.0014 mg/L	0.00259	0.0014 mg/L	0.00259	185.59%
QC value within limits for Se 196.026		Recovery =	Not calculated			
Sn 189.927†	-31.1	-0.0113 mg/L	0.00118	-0.0113 mg/L	0.00118	10.45%
QC value within limits for Sn 189.927		Recovery =	Not calculated			
Ti 337.279†	82.2	0.0005 mg/L	0.00003	0.0005 mg/L	0.00003	4.96%
QC value within limits for Ti 337.279		Recovery =	Not calculated			
Tl 190.801†	17.9	0.0170 mg/L	0.00058	0.0170 mg/L	0.00058	3.40%
QC value within limits for Tl 190.801		Recovery =	Not calculated			
V 292.402†	-68.7	0.0004 mg/L	0.00003	0.0004 mg/L	0.00003	8.61%
QC value within limits for V 292.402		Recovery =	Not calculated			
Zn 213.857†	368.4	0.0041 mg/L	0.00005	0.0041 mg/L	0.00005	1.13%
QC value within limits for Zn 213.857		Recovery =	Not calculated			

All analyte(s) passed QC.

Sequence No.: 75  
 Sample ID: BF62307-PDS1  
 Analyst:  
 Initial Sample Wt:

Autosampler Location: 59  
 Date Collected: 6/23/2006 11:54:41 PM  
 Data Type: Original  
 Initial Sample Vol:

## ANALYSIS SEQUENCE

BPG0206

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0206-CAL1	QC		1		6F21081		
BPG0206-CAL2	QC		2		6F26074		
BPG0206-CAL3	QC		3		6F26075		
BPG0206-CAL4	QC		4		6F26076		
BPG0206-CAL5	QC		5		6F26077		
BPG0206-ICV1	QC		6		6F26076		
BPG0206-SCV1	QC		7		6F26078		
BPG0206-ICB1	QC		8				
BF62206-BLK2	QC		9				
BF62206-BS2	QC		10				
BPG0206-CCB1	QC		11				
BPG0206-CCV1	QC		12		6F26076		
BF62206-BSD2	QC		13				
BF62206-DUP3	QC		14				
BF62206-MS3	QC		15				
BF62206-PS1	QC		16				
BF62206-DUP4	QC		17				
BF62206-MS4	QC		18				
BF62206-PS2	QC		19				
0606346-01	Sb: ppm Diss Antimony 7041	G	20				MACTEC Engineering & Consulting, Inc
0606346-01	Pb: ppm Diss Lead 7421	G	21				MACTEC Engineering & Consulting, Inc
0606346-01	As: ppm Diss Arsenic 7060	G	22				MACTEC Engineering & Consulting, Inc
0606346-01	Sb: ppm Antimony 7041	A	23				MACTEC Engineering & Consulting, Inc
0606346-01	Pb: ppm Lead 7421	A	24				MACTEC Engineering & Consulting, Inc
0606346-01	As: ppm Arsenic 7060	A	25				MACTEC Engineering & Consulting, Inc
0606346-02	Sb: ppm Diss Antimony 7041	O	26				MACTEC Engineering & Consulting, Inc
0606346-02	Pb: ppm Diss Lead 7421	O	27				MACTEC Engineering & Consulting, Inc
0606346-02	As: ppm Diss Arsenic 7060	O	28				MACTEC Engineering & Consulting, Inc
0606346-02	Sb: ppm Antimony 7041	A	29				MACTEC Engineering & Consulting, Inc
0606346-02	Pb: ppm Lead 7421	A	30				MACTEC Engineering & Consulting, Inc
0606346-02	As: ppm Arsenic 7060	A	31				MACTEC Engineering & Consulting, Inc
0606346-03	Sb: ppm Diss Antimony 7041	O	32				MACTEC Engineering & Consulting, Inc
0606346-03	Sb: ppm Antimony 7041	A	33				MACTEC Engineering & Consulting, Inc

## ANALYSIS SEQUENCE

BPG0206

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606346-03	Pb: ppm Diss Lead 7421	O	34				MACTEC Engineering & Consulting, Inc
0606346-03	Pb: ppm Lead 7421	A	35				MACTEC Engineering & Consulting, Inc
0606346-03	As: ppm Arsenic 7060	A	36				MACTEC Engineering & Consulting, Inc
0606346-03	As: ppm Diss Arsenic 7060	O	37				MACTEC Engineering & Consulting, Inc
BPG0206-CCB2	QC		38				
BPG0206-CCV2	QC		39		6F26076		
0606346-05	Sb: ppm Diss Antimony 7041	G	40				MACTEC Engineering & Consulting, Inc
0606346-05	Sb: ppm Antimony 7041	A	41				MACTEC Engineering & Consulting, Inc
0606346-05	Pb: ppm Lead 7421	A	42				MACTEC Engineering & Consulting, Inc
0606346-05	As: ppm Arsenic 7060	A	43				MACTEC Engineering & Consulting, Inc
0606346-05	As: ppm Diss Arsenic 7060	G	44				MACTEC Engineering & Consulting, Inc
0606346-06	Sb: ppm Diss Antimony 7041	G	45				MACTEC Engineering & Consulting, Inc
0606346-06	Sb: ppm Antimony 7041	A	46				MACTEC Engineering & Consulting, Inc
0606346-06	Pb: ppm Lead 7421	A	47				MACTEC Engineering & Consulting, Inc
0606346-06	As: ppm Arsenic 7060	A	48				MACTEC Engineering & Consulting, Inc
0606346-06	As: ppm Diss Arsenic 7060	G	49				MACTEC Engineering & Consulting, Inc
0606346-07	Sb: ppm Diss Antimony 7041	G	50				MACTEC Engineering & Consulting, Inc
0606346-07	Sb: ppm Antimony 7041	A	51				MACTEC Engineering & Consulting, Inc
0606346-07	Pb: ppm Diss Lead 7421	G	52				MACTEC Engineering & Consulting, Inc
0606346-07	Pb: ppm Lead 7421	A	53				MACTEC Engineering & Consulting, Inc
0606346-07	As: ppm Arsenic 7060	A	54				MACTEC Engineering & Consulting, Inc
0606346-07	As: ppm Diss Arsenic 7060	G	55				MACTEC Engineering & Consulting, Inc
0606346-08	Sb: ppm Diss Antimony 7041	G	56				MACTEC Engineering & Consulting, Inc
0606346-08	Sb: ppm Antimony 7041	A	57				MACTEC Engineering & Consulting, Inc
0606346-08	Pb: ppm Diss Lead 7421	G	58				MACTEC Engineering & Consulting, Inc
0606346-08	Pb: ppm Lead 7421	A	59				MACTEC Engineering & Consulting, Inc
0606346-08	As: ppm Arsenic 7060	A	60				MACTEC Engineering & Consulting, Inc
0606346-08	As: ppm Diss Arsenic 7060	G	61				MACTEC Engineering & Consulting, Inc
0606346-09	Sb: ppm Diss Antimony 7041	G	62				MACTEC Engineering & Consulting, Inc
0606346-09	Sb: ppm Antimony 7041	A	63				MACTEC Engineering & Consulting, Inc
0606346-09	Pb: ppm Diss Lead 7421	G	64				MACTEC Engineering & Consulting, Inc
0606346-09	Pb: ppm Lead 7421	A	65				MACTEC Engineering & Consulting, Inc
0606346-09	As: ppm Arsenic 7060	A	66				MACTEC Engineering & Consulting, Inc

Samples Loaded By

Date

Data Processed By

Date

## ANALYSIS SEQUENCE

BPG0206

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606346-09	As: ppm Diss Arsenic 7060	G	67				MACTEC Engineering & Consulting, Inc
0606346-10	Sb: ppm Diss Antimony 7041	G	68				MACTEC Engineering & Consulting, Inc
0606346-10	Sb: ppm Antimony 7041	A	69				MACTEC Engineering & Consulting, Inc
0606346-10	Pb: ppm Diss Lead 7421	G	70				MACTEC Engineering & Consulting, Inc
0606346-10	Pb: ppm Lead 7421	A	71				MACTEC Engineering & Consulting, Inc
0606346-10	As: ppm Arsenic 7060	A	72				MACTEC Engineering & Consulting, Inc
0606346-10	As: ppm Diss Arsenic 7060	G	73				MACTEC Engineering & Consulting, Inc
0606346-11	Sb: ppm Diss Antimony 7041	G	74				MACTEC Engineering & Consulting, Inc
0606346-11	Sb: ppm Antimony 7041	A	75				MACTEC Engineering & Consulting, Inc
0606346-11	Pb: ppm Diss Lead 7421	G	76				MACTEC Engineering & Consulting, Inc
0606346-11	Pb: ppm Lead 7421	A	77				MACTEC Engineering & Consulting, Inc
0606346-11	As: ppm Arsenic 7060	A	78				MACTEC Engineering & Consulting, Inc
0606346-11	As: ppm Diss Arsenic 7060	G	79				MACTEC Engineering & Consulting, Inc
BF62207-DUP3	QC		80				
BF62207-MS3	QC		81				
BF62207-PS1	QC		82				
BPG0206-CCB3	QC		83				
BPG0206-CCV3	QC		84		6F26076		
BF62207-DUP4	QC		85				
BF62207-MS4	QC		86				
BF62207-PS2	QC		87				
0606346-13	Sb: ppm Diss Antimony 7041	A	88				MACTEC Engineering & Consulting, Inc
0606346-13	Sb: ppm Antimony 7041	A	89				MACTEC Engineering & Consulting, Inc
0606346-13	Pb: ppm Diss Lead 7421	A	90				MACTEC Engineering & Consulting, Inc
0606346-13	Pb: ppm Lead 7421	A	91				MACTEC Engineering & Consulting, Inc
0606346-13	As: ppm Arsenic 7060	A	92				MACTEC Engineering & Consulting, Inc
0606346-13	As: ppm Diss Arsenic 7060	A	93				MACTEC Engineering & Consulting, Inc
0606346-14	Sb: ppm Diss Antimony 7041	A	94				MACTEC Engineering & Consulting, Inc
0606346-14	Sb: ppm Antimony 7041	A	95				MACTEC Engineering & Consulting, Inc
0606346-14	Pb: ppm Diss Lead 7421	A	96				MACTEC Engineering & Consulting, Inc
0606346-14	Pb: ppm Lead 7421	A	97				MACTEC Engineering & Consulting, Inc
0606346-14	As: ppm Arsenic 7060	A	98				MACTEC Engineering & Consulting, Inc
0606346-14	As: ppm Diss Arsenic 7060	A	99				MACTEC Engineering & Consulting, Inc



## ANALYSIS SEQUENCE

BPG0206

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606346-15	Sb: ppm Diss Antimony 7041	A	100				MACTEC Engineering & Consulting, In
0606346-15	Sb: ppm Antimony 7041	A	101				MACTEC Engineering & Consulting, In
0606346-15	Pb: ppm Diss Lead 7421	A	102				MACTEC Engineering & Consulting, In
0606346-15	Pb: ppm Lead 7421	A	103				MACTEC Engineering & Consulting, In
0606346-15	As: ppm Arsenic 7060	A	104				MACTEC Engineering & Consulting, In
0606346-15	As: ppm Diss Arsenic 7060	A	105				MACTEC Engineering & Consulting, In
BPG0206-SRD1	QC		106				
BPG0206-SRD2	QC		107				
BPG0206-SRD3	QC		108				
BPG0206-SRD4	QC		109				
BPG0206-CCB4	QC		110				
BPG0206-CCV4	QC		111		6F26076		
BPG0206-CCV5	QC		112		6F26076		
BPG0206-CCV6	QC		113		6F26076		
BPG0206-CCV7	QC		114		6F26076		
BPG0206-CCB5	QC		115				
BPG0206-CCB6	QC		116				
BPG0206-CCB7	QC		117				
BF62302-BLK2	QC		118				
BF62302-BS2	QC		119				
BF62302-BSD2	QC		120				
BF62302-DUP2	QC		121				
BF62302-MS2	QC		122				
BF62302-PS2	QC		123				
BPG0206-SRD5	QC		124				
0606372-01	As: ppm Arsenic 7060	G	125				MACTEC Engineering & Consulting, In
0606372-01	As: ppm Diss Arsenic 7060	G	126				MACTEC Engineering & Consulting, In
0606372-01	Pb: ppm Diss Lead 7421	G	127				MACTEC Engineering & Consulting, In
0606372-01	Pb: ppm Lead 7421	G	128				MACTEC Engineering & Consulting, In
0606372-01	Sb: ppm Antimony 7041	G	129				MACTEC Engineering & Consulting, In
0606372-01	Sb: ppm Diss Antimony 7041	G	130				MACTEC Engineering & Consulting, In
0606372-02	As: ppm Arsenic 7060	G	131				MACTEC Engineering & Consulting, In
0606372-02	As: ppm Diss Arsenic 7060	G	132				MACTEC Engineering & Consulting, In

## ANALYSIS SEQUENCE

BPG0206

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606372-02	Pb: ppm Diss Lead 7421	G	133				MACTEC Engineering & Consulting, Inc
0606372-02	Pb: ppm Lead 7421	G	134				MACTEC Engineering & Consulting, Inc
0606372-02	Sb: ppm Antimony 7041	G	135				MACTEC Engineering & Consulting, Inc
0606372-02	Sb: ppm Diss Antimony 7041	G	136				MACTEC Engineering & Consulting, Inc
0606372-03	As: ppm Arsenic 7060	G	137				MACTEC Engineering & Consulting, Inc
0606372-03	As: ppm Diss Arsenic 7060	G	138				MACTEC Engineering & Consulting, Inc
0606372-03	Pb: ppm Diss Lead 7421	G	139				MACTEC Engineering & Consulting, Inc
0606372-03	Pb: ppm Lead 7421	G	140				MACTEC Engineering & Consulting, Inc
0606372-03	Sb: ppm Antimony 7041	G	141				MACTEC Engineering & Consulting, Inc
0606372-03	Sb: ppm Diss Antimony 7041	G	142				MACTEC Engineering & Consulting, Inc

## ANALYSIS SEQUENCE

BPG0208

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0208-CAL1	QC		1		6F21081		
BPG0208-CAL2	QC		2		6F26079		
BPG0208-CAL3	QC		3		6F26074		
BPG0208-CAL4	QC		4		6F26075		
BPG0208-CAL5	QC		5		6F26076		
BPG0208-ICV1	QC		6		6F26075		
BPG0208-SCV1	QC		7		6F26082		
BPG0208-ICB1	QC		8				
BF62206-DUP5	QC		9				
BF62206-MS5	QC		10				
BF62206-PS3	QC		11				
BPG0208-CCB1	QC		12				
BPG0208-CCV1	QC		13		6F26075		
BF62206-DUP6	QC		14				
BF62206-MS6	QC		15				
BF62206-PS4	QC		16				
0606346-01	Tl: ppm Diss Thallium 7841	G	17				MACTEC Engineering & Consulting, In
0606346-01	Tl: ppm Thallium 7841	A	18				MACTEC Engineering & Consulting, In
0606346-02	Tl: ppm Diss Thallium 7841	O	19				MACTEC Engineering & Consulting, In
0606346-02	Tl: ppm Thallium 7841	A	20				MACTEC Engineering & Consulting, In
0606346-03	Tl: ppm Diss Thallium 7841	O	21				MACTEC Engineering & Consulting, In
0606346-03	Tl: ppm Thallium 7841	A	22				MACTEC Engineering & Consulting, In
0606346-05	Tl: ppm Diss Thallium 7841	G	23				MACTEC Engineering & Consulting, In
0606346-05	Tl: ppm Thallium 7841	A	24				MACTEC Engineering & Consulting, In
0606346-06	Tl: ppm Diss Thallium 7841	G	25				MACTEC Engineering & Consulting, In
0606346-06	Tl: ppm Thallium 7841	A	26				MACTEC Engineering & Consulting, In
0606346-07	Tl: ppm Diss Thallium 7841	G	27				MACTEC Engineering & Consulting, In
0606346-07	Tl: ppm Thallium 7841	A	28				MACTEC Engineering & Consulting, In
0606346-08	Tl: ppm Diss Thallium 7841	G	29				MACTEC Engineering & Consulting, In
0606346-08	Tl: ppm Thallium 7841	A	30				MACTEC Engineering & Consulting, In
BPG0208-CCB2	QC		31				
BPG0208-CCV2	QC		32		6F26075		
0606346-09	Tl: ppm Diss Thallium 7841	G	33				MACTEC Engineering & Consulting, In

## ANALYSIS SEQUENCE

BPG0208

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606346-09	Tl: ppm Thallium 7841	A	34				MACTEC Engineering & Consulting, Inc
0606346-10	Tl: ppm Diss Thallium 7841	G	35				MACTEC Engineering & Consulting, Inc
0606346-10	Tl: ppm Thallium 7841	A	36				MACTEC Engineering & Consulting, Inc
0606346-11	Tl: ppm Diss Thallium 7841	G	37				MACTEC Engineering & Consulting, Inc
0606346-11	Tl: ppm Thallium 7841	A	38				MACTEC Engineering & Consulting, Inc
BF62207-DUP5	QC		39				
BF62207-MS5	QC		40				
BF62207-PS3	QC		41				
BF62207-DUP6	QC		42				
BF62207-MS6	QC		43				
BF62207-PS4	QC		44				
0606346-13	Tl: ppm Diss Thallium 7841	A	45				MACTEC Engineering & Consulting, Inc
0606346-13	Tl: ppm Thallium 7841	A	46				MACTEC Engineering & Consulting, Inc
BPG0208-CCB3	QC		47				
BPG0208-CCV3	QC		48		6F26075		
0606346-14	Tl: ppm Diss Thallium 7841	A	49				MACTEC Engineering & Consulting, Inc
0606346-14	Tl: ppm Thallium 7841	A	50				MACTEC Engineering & Consulting, Inc
0606346-15	Tl: ppm Diss Thallium 7841	A	51				MACTEC Engineering & Consulting, Inc
0606346-15	Tl: ppm Thallium 7841	A	52				MACTEC Engineering & Consulting, Inc
BPG0208-SRD1	QC		53				
BPG0208-SRD2	QC		54				
BPG0208-SRD3	QC		55				
BPG0208-SRD4	QC		56				
BPG0208-CCV4	QC		57		6F26075		
BPG0208-CCB4	QC		58				
BF62302-BLK3	QC		59				
BF62302-BS3	QC		60				
BF62302-BSD3	QC		61				
BF62302-DUP3	QC		62				
BF62302-MS3	QC		63				
BF62302-PS3	QC		64				
0606372-01	Tl: ppm Diss Thallium 7841	G	65				MACTEC Engineering & Consulting, Inc
0606372-01	Tl: ppm Thallium 7841	G	66				MACTEC Engineering & Consulting, Inc



**ESS LABORATORY**  
**GFAA Data Review Check List**

SIF Method: As Pb Sb Tl<sub>2</sub> Run Date: 6/26/06  
 Project Number(s): 06341-02dis, 06346, 352, 353, 371, 372, 375, 407, 386  
 Batch Number (s): 0626064A  
 SOP NO. 30 2009

Review Item	Yes (X)	No (X)	N/A (X)
1. Does the cal curve consist of four Calibration Standards including a blank and is its correlation within QC limits ( $\geq 0.995$ )?	X		
2. Is the low calibration standard at the reporting limit?	X		
3. If the low standard is above the reporting limit, is a CRI analyzed at the beginning of the run? Does the recovery meet QC limits(80-120%)?			X
4. Is the midpoint calibration standard reanalyzed immediately after the curve and is it within QC limits of 90-110% ( $\pm 5\%$ for 200.9)?	X		
5. Is the ICV from a second source and is its recovery within QC limits (90-110%)	X	X	
6. Is the mid-point calibration standard re-analyzed every 10 samples and at the end of the run and are its recoveries within QC limits (90-110%)?		X	
7. Is the CCB analyzed at beginning, after every 10 samples and at end of the run and are its recoveries within QC limits ( $< 2 \times MDL$ )?	X		
8. Are the method blank recoveries within QC limits?	X		
9. Are the LCS and ERA recoveries within QC limits (LCS: 80-120% for 7000, 85-115% for 200.9, ERA see COA)?	X		
10. Are matrix dups run at desired frequency (1 per 10 samples or per analytical batch) and are RPD's within QC limits ( $< 20\%$ )?	X		
11. Are matrix spikes run at desired frequency frequency (1 per 10 samples or per analytical batch) and are recoveries within QC limits (80-120%)?		X	
12. Are all samples with concentrations $>$ the highest calibration standard diluted and reanalyzed?			X
13. Has the serial dilution been analyzed at the required frequency (once per analytical batch) and are results within criterion ( $\pm 10\%$ RPD)?	X		
14. Is the batch post digestion spike within QC limits (85-115%)?		X	
15. Are all sample hold times met?	X		
16. Are all non-conformances included and noted?	X		
17. Is the correct methodology used for sample prep and analysis?	X		
18. Are all calculations checked?	X		
19. Did analyst sign/date appropriate printouts and report sheets?	X		
20. Are all samples located in the correct auto-sampler locations?	X		

Comments on any "No" response:  
Tl - 06346-06 PDS high 06371-01 PDS high BFG2403-BIKI PDS high

As OK

Pb - BFG2706-MS4 high ; 06346-15dis 06372-03 PDS high CCVs high @ end  
all all hits plus high PSD samples

Re-run BFG2706-Dep2, 06346-05dis Media BFG2701-BIKI PSD PSD2; BFG2302 BIKI DP  
0606575-01 Batch BFG2403 (06407) 06386-16

Analyst: JP Date: 6/28/06 2<sup>nd</sup> Rvw: JW Date: 6/28/06

Sb: BFG2403-BIKI PDS high

Control Number: 30.0022-0602A

## Autosampler Loading List

Sample Information File: 062606YA.SIF

Methods: Tl 2 As 5 Pb 2 Sb 5

Location	Elements	Solution
1	Sb	Sample: 0606341-02 dis
2	Tl, As, Pb, Sb	Sample: bf62206-blk1
3	Tl, As, Pb, Sb	Sample: bf62206-bs2
4	Tl, As, Pb, Sb	Sample: bf62206-bsd2
5	Tl, As, Pb, Sb	Sample: 0606346-01
6	Tl, As, Pb, Sb	Sample: bf62206-dup1
7	Tl, As, Pb, Sb	Sample: bf62206-ms3
8	Tl, As, Pb, Sb	Sample: bf62206-sd1 x5
9	Tl, As, Pb, Sb	Sample: 0606346-02
10	Tl, As, Pb, Sb	Sample: 0606346-03
11	Tl, As, Pb, Sb	Sample: 0606346-05
12	Tl, As, Pb, Sb	Sample: 0606346-06
13	Tl, As, Pb, Sb	Sample: 0606346-07
14	Tl, As, Pb, Sb	Sample: 0606346-08
15	Tl, As, Pb, Sb	Sample: 0606346-09
16	Tl, As, Pb, Sb	Sample: 0606346-10
17	Tl, As, Pb, Sb	Sample: 0606346-11
18	Tl, As, Pb, Sb	Sample: bf62206-dup2
19	Tl, As, Pb, Sb	Sample: bf62206-ms4
20	Tl, As, Pb, Sb	Sample: bf62206-sd2 x5
21	Tl, As, Pb, Sb	Sample: 0606346-13
22	Tl, As, Pb, Sb	Sample: 0606346-14
23	Tl, As, Pb, Sb	Sample: 0606346-15
24	Tl, As, Pb, Sb	Sample: 0606346-01 dis
25	Tl, As, Pb, Sb	Sample: 0606346-02 dis
26	Tl, As, Pb, Sb	Sample: 0606346-03 dis
27	Tl, As, Pb, Sb	Sample: 0606346-05 dis
28	Tl, As, Pb, Sb	Sample: 0606346-06 dis
29	Tl, As, Pb, Sb	Sample: bf62207-dup1
30	Tl, As, Pb, Sb	Sample: bf62207-ms3
31	Tl, As, Pb, Sb	Sample: bf62207-sd1 x5
32	Tl, As, Pb, Sb	Sample: 0606346-07 dis
33	Tl, As, Pb, Sb	Sample: 0606346-08 dis
34	Tl, As, Pb, Sb	Sample: 0606346-09 dis
35	Tl, As, Pb, Sb	Sample: 0606346-10 dis
36	Tl, As, Pb, Sb	Sample: 0606346-11 dis
37	Tl, As, Pb, Sb	Sample: 0606346-13 dis
38	Tl, As, Pb, Sb	Sample: 0606346-14 dis
39	Tl, As, Pb, Sb	Sample: 0606346-15 dis
40	Tl, As, Pb, Sb	Sample: bf62207-dup2
41	Tl, As, Pb, Sb	Sample: bf62207-ms4
42	Tl, As, Pb, Sb	Sample: bf62207-sd2 x5
43	Tl, As, Pb, Sb	Sample: bf62301-blk1
44	Tl, As, Pb, Sb	Sample: bf62301-bs2
45	Tl, As, Pb, Sb	Sample: bf62301-bsd2
46	Tl, As, Pb, Sb	Sample: <del>bf62301-blk1</del> BF62301-BLK2
47	Pb	Sample: 0606352-01
48	Pb	Sample: 0606353-01
49	Tl, As, Pb, Sb	Sample: 0606371-01 dis
50	Tl, As, Pb, Sb	Sample: 0606371-01
51	Tl, As, Pb, Sb	Sample: bf62301-dup2
52	Tl, As, Pb, Sb	Sample: bf62301-ms3
53	Tl, As, Pb, Sb	Sample: bf62301-sd2 x5
54	Tl, As, Pb, Sb	Sample: bf62302-blk1
55	Tl, As, Pb, Sb	Sample: bf62302-bs2
56	Tl, As, Pb, Sb	Sample: bf62302-bsd2
57	Tl, As, Pb, Sb	Sample: 0606372-01 dis
58	Tl, As, Pb, Sb	Sample: 0606372-02 dis
59	Tl, As, Pb, Sb	Sample: 0606372-03 dis
60	Tl, As, Pb, Sb	Sample: 0606372-01
61	Tl, As, Pb, Sb	Sample: 0606372-02

62	Tl, As, Pb, Sb	Sample: 0606372-03
63	Tl, As, Pb, Sb	Sample: bf62302-dup1
64	Tl, As, Pb, Sb	Sample: bf62302-ms2
65	Tl, As, Pb, Sb	Sample: bf62302-sd1 x5
66	Tl, As, Pb, Sb	Sample: 0606375-01
67	Tl, As, Pb, Sb	Sample: bf62403-blk1
68	Tl, As, Pb, Sb	Sample: bf62403-bs2
69	Tl, As, Pb, Sb	Sample: bf62403-bsd2
70	Tl, As, Pb, Sb	Sample: 0606407-01
71	Tl, As, Pb, Sb	Sample: 0606407-02
72	Tl, As, Pb, Sb	Sample: bf62403-dup1
73	Tl, As, Pb, Sb	Sample: bf62403-ms3
74	Tl, As, Pb, Sb	Sample: bf62403-sd1 x5
75	Tl, As, Pb, Sb	Sample: 0606407-03
76	Tl, As, Pb, Sb	Sample: 0606407-01 dis
77	Tl, As, Pb, Sb	Sample: 0606407-02 dis
78	Tl, As, Pb, Sb	Sample: 0606407-03 dis
79	Pb	Sample: 0606386-01
80	Pb	Sample: 0606386-02
81	Pb	Sample: 0606386-03
82	Pb	Sample: 0606386-04
83	Pb	Sample: 0606386-05
84	Pb	Sample: 0606386-06
85	Pb	Sample: 0606386-07
86	Pb	Sample: 0606386-08
87	Pb	Sample: 0606386-09
88	Pb	Sample: 0606386-10
89	Pb	Sample: bf62613-dup1
90	Pb	Sample: bf62613-sd1 x5
91	Pb	Sample: 0606386-11
92	Pb	Sample: 0606386-12
93	Pb	Sample: 0606386-13
94	Pb	Sample: 0606386-14
95	Pb	Sample: 0606386-15
96	Pb	Sample: 0606386-16
97	Pb	Sample: 0606386-17
98	Pb	Sample: 0606386-18
99	Pb	Sample: 0606386-19
100	Pb	Sample: 0606386-20
101	Pb	Sample: bf62613-dup2
102	Pb	Sample: bf62613-sd2 x5
121	Tl, As, Pb, Sb	Stock Standard: 5.0 µg/L
124	Tl, As, Pb, Sb	Stock Standard: 10.0 µg/L
	Tl	STD 3: 10.0000 µg/L
	Tl	CCV: 10.0000 µg/L
126	Tl, As, Pb, Sb	Stock Standard: 25.0 µg/L
	As, Pb, Sb	STD 3: 25.0000 µg/L
	As, Pb, Sb	CCV: 25.0000 µg/L
129	As, Pb, Sb	Stock Standard: 50.0 µg/L
131	Tl, As, Pb, Sb	Recovery Stock: 50.0 µg/L
134	As, Pb, Sb	ICV: 25.0000 µg/L
136	Tl	Stock Standard: 2.0 µg/L
	As, Pb, Sb	CRA 2: 2.0000 µg/L
139	Tl	ICV: 10.0000 µg/L
141	Pb	Standard 0
	Pb	ICB/CCB: 0.0000 µg/L
	Pb	Diluent
146	Pb	Modifier 2
147	Tl, As, Sb	Modifier 1
148	Tl, As, Sb	Standard 0
	Tl, As, Sb	ICB/CCB: 0.0000 µg/L
	Tl, As, Sb	Diluent



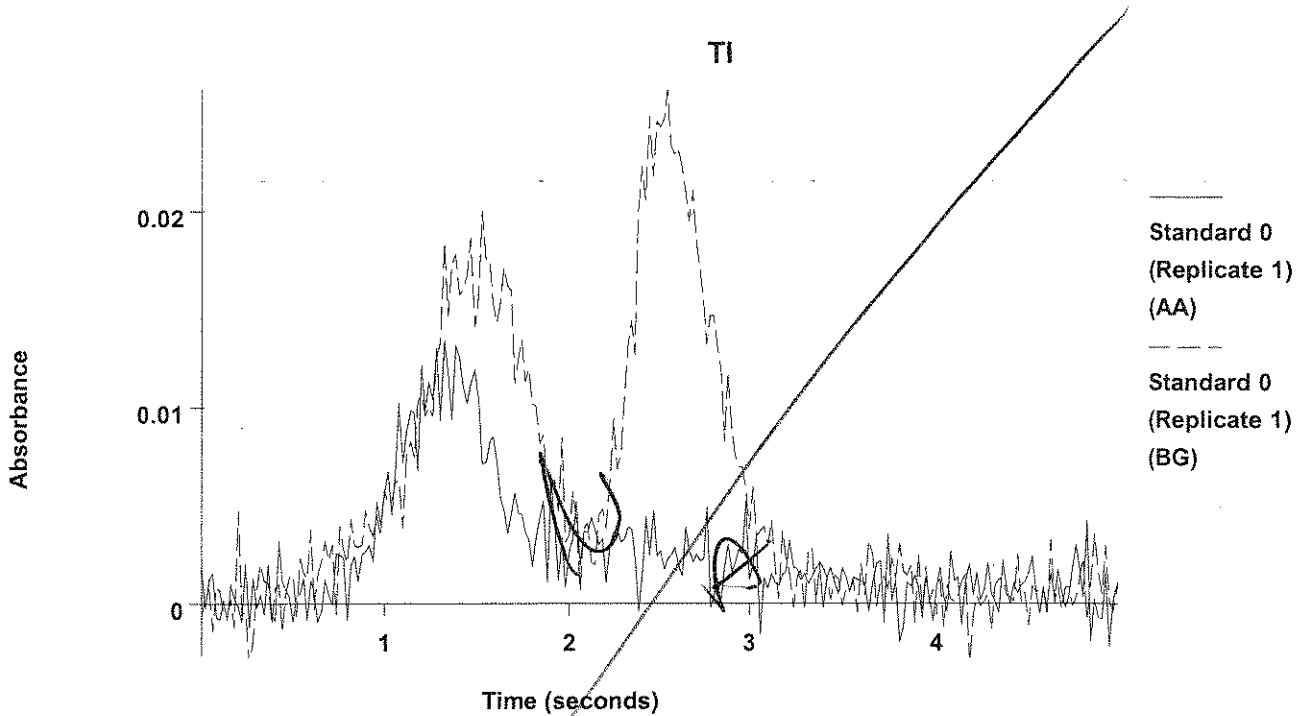
Method Name: Tl 2  
 Method Description: Tl 2  
 Element: Tl

Date: 06/26/2006  
 Technique: Furnace  
 Calibration Type:  
 Tl, Calc. Intercept : Linear  
 Wavelength: 276.8 nm  
 Energy: 100  
 Slit Width: 0.7  
 Lamp Current: 6 mA  
 Sample Info Name: 062606YA.SIF

Results Data Set Name: 062606yad

Element: Tl Seq. No.: 1 AS Loc.: 148 Date: 06/26/2006  
 Sample ID: Standard 0  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc	StndConc	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0127	0.0127	0.0134	0.0283	0.0262	12:25:51	Yes

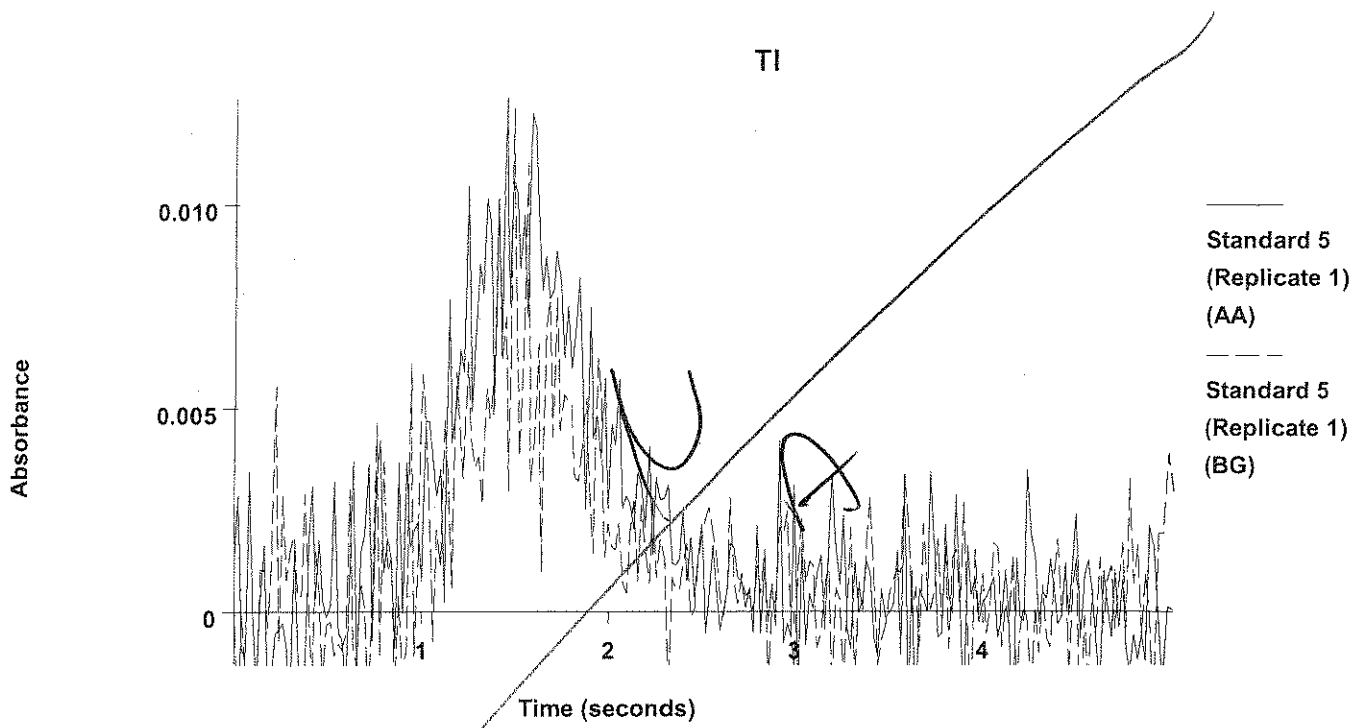


2			0.0019	0.0019	0.0038	0.0012	0.0046	12:28:41	Yes
Mean:			0.0073						
SD :			0.0077						
%RSD:			104.91						

Auto-zero performed.

Element: Tl Seq. No.: 2 AS Loc.: 136 Date: 06/26/2006  
 Sample ID: Standard 2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 136

Repl #	SampleConc	StndConc	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			-0.0034	0.0040	0.0059	0.0002	0.0054	12:31:56	Yes

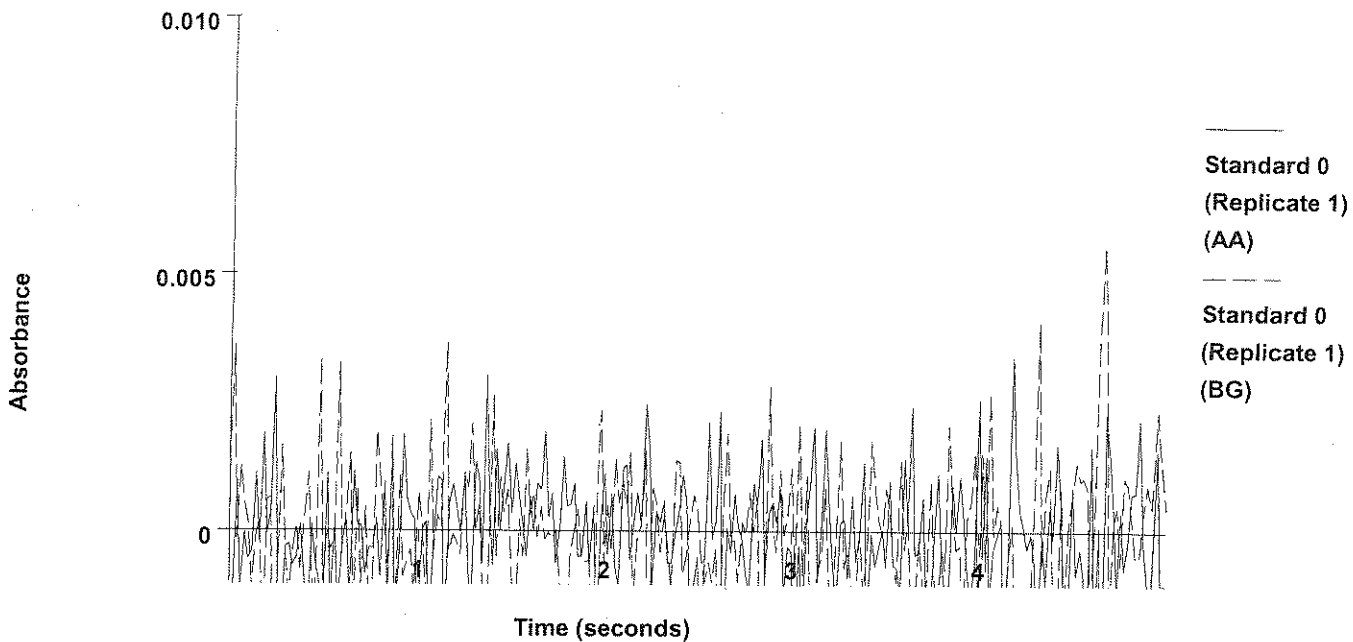


2  
 Mean: 0.0012 0.0086 0.0105 0.0046 0.0078 12:40:55 Yes  
 SD : 0.0019  
 %RSD: 0.0010  
 50.36

=====  
 Element: Tl Seq. No.: 4 AS Loc.: 148 Date: 06/26/2006  
 Sample ID: Standard 0  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc	StndConc	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			-0.0002	-0.0002	0.0034	0.0001	0.0056	12:44:56	Yes

Tl

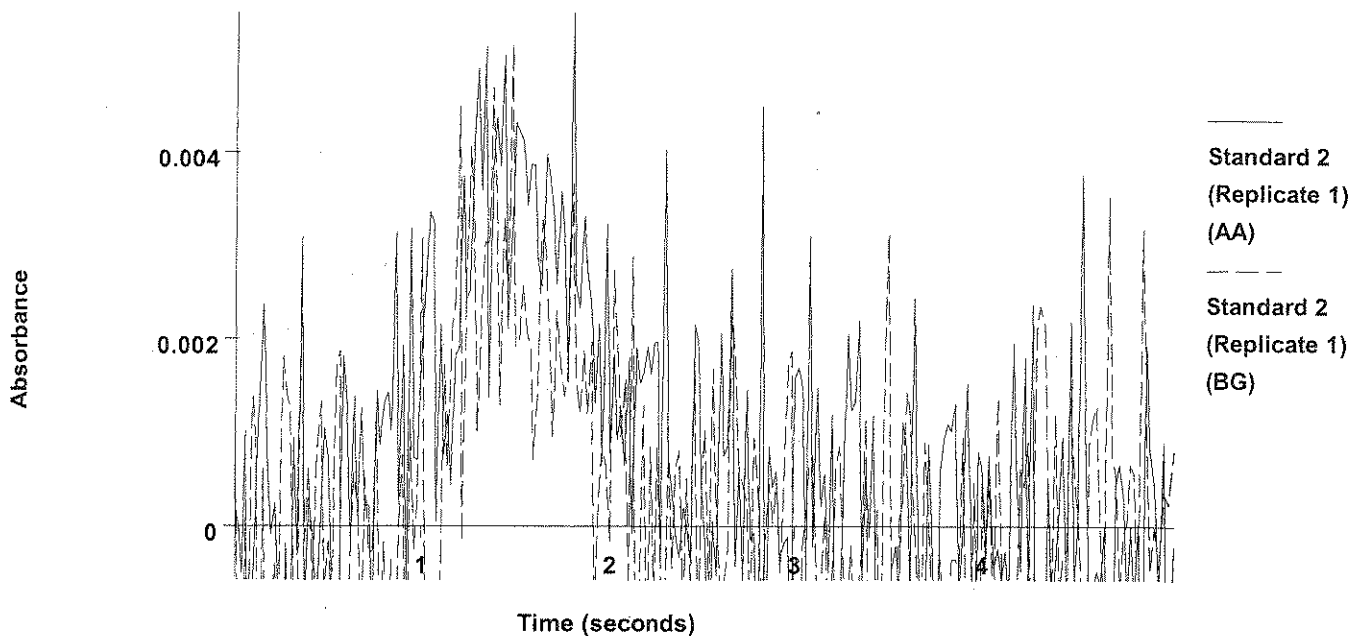


2  
 Mean: 0.0006 0.0006 0.0034 0.0006 0.0052 12:47:45 Yes  
 SD : 0.0002  
 %RSD: 0.0005  
 269.79  
 Auto-zero performed.

=====  
 Element: Tl Seq. No.: 5 AS Loc.: 136 Date: 06/26/2006  
 Sample ID: Standard 2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 136  
 =====

Repl #	SampleConc	StndConc	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0038	0.0040	0.0055	0.0017	0.0052	12:50:59	Yes

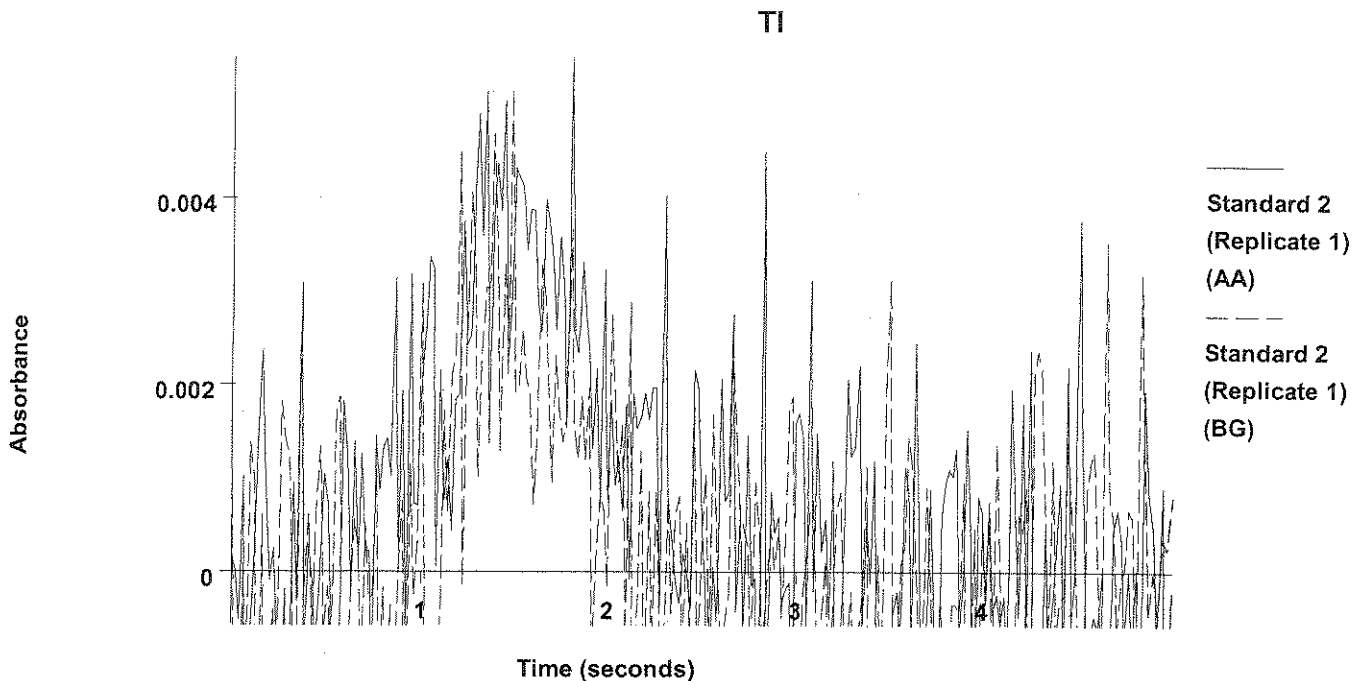
TI



2                                      0.0035    0.0037    0.0077    0.0024    0.0051    12:53:47    Yes  
Mean:                                      0.0037  
SD :                                        0.0002  
%RSD:                                      6.33  
[Tl] Standard number 1 applied. [2.0]  
Correlation Coefficient: 1.00000                                      Slope: 0.00183  
Intercept : 0.00000

=====  
Element: Tl    Seq. No.: 6                      AS Loc.: 121    Date: 06/26/2006  
Sample ID: Standard 5  
 $\mu$ L dispensed: 10 from 148, 5 from 147, 15 from 121

Repl #	SampleConc $\mu$ g/L	StdConc $\mu$ g/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1			0.0085	0.0087	0.0124	0.0059	0.0078	12:57:04	Yes

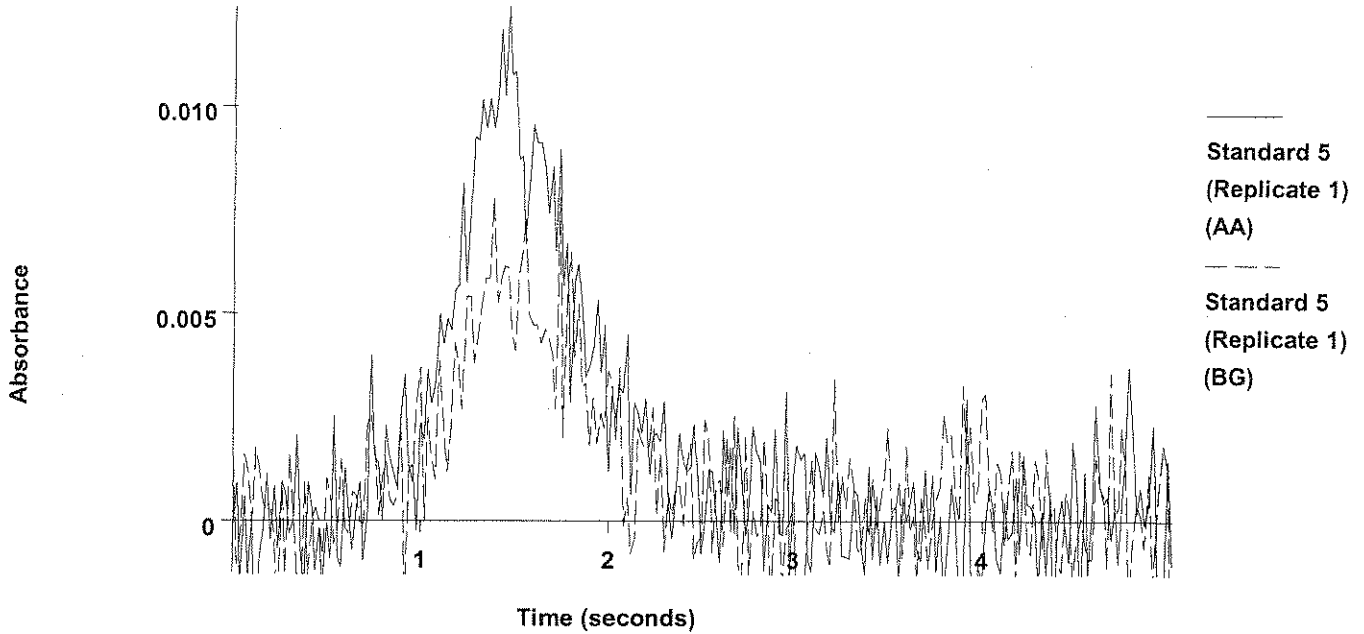


2                            0.0035    0.0037    0.0077    0.0024    0.0051    12:53:47    Yes  
 Mean:                      0.0037  
 SD :                        0.0002  
 %RSD:                      6.33  
 [Tl] Standard number 1 applied. [2.0]  
 Correlation Coefficient: 1.00000                            Slope: 0.00183  
 Intercept : 0.00000

=====  
 Element: Tl    Seq. No.: 6            AS Loc.: 121    Date: 06/26/2006  
 Sample ID: Standard 5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 121

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0085	0.0087	0.0124	0.0059	0.0078	12:57:04	Yes

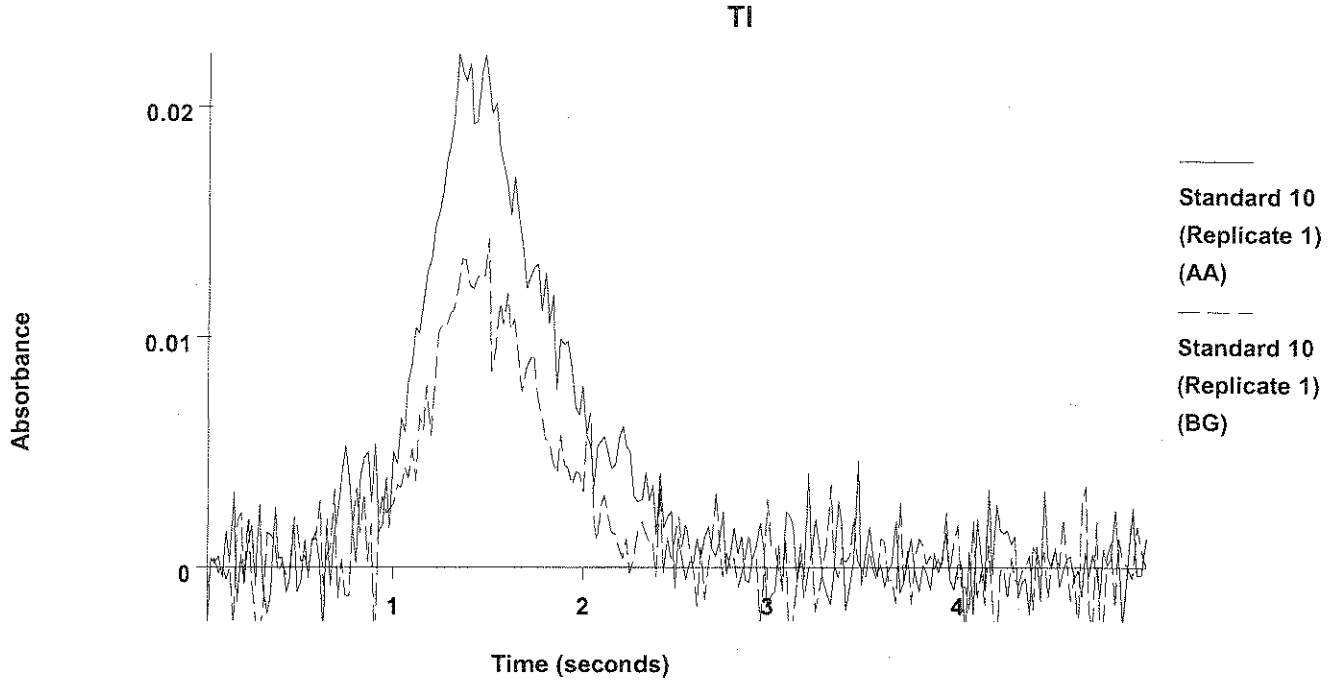
Tl



2                                    0.0100    0.0102    0.0143    0.0044    0.0082    12:59:54    Yes  
 Mean:                                0.0092  
 SD :                                    0.0011  
 %RSD:                                 11.84  
 [Tl] Standard number 2 applied. [5.0]  
 Correlation Coefficient: 0.99999                                    Slope: 0.00185  
 Intercept : -0.00001

=====  
 Element: Tl    Seq. No.: 7                    AS Loc.: 124    Date: 06/26/2006  
 Sample ID: Standard 10  
 µL dispensed: 10 from 148, 5 from 147, 15 from 124  
 =====

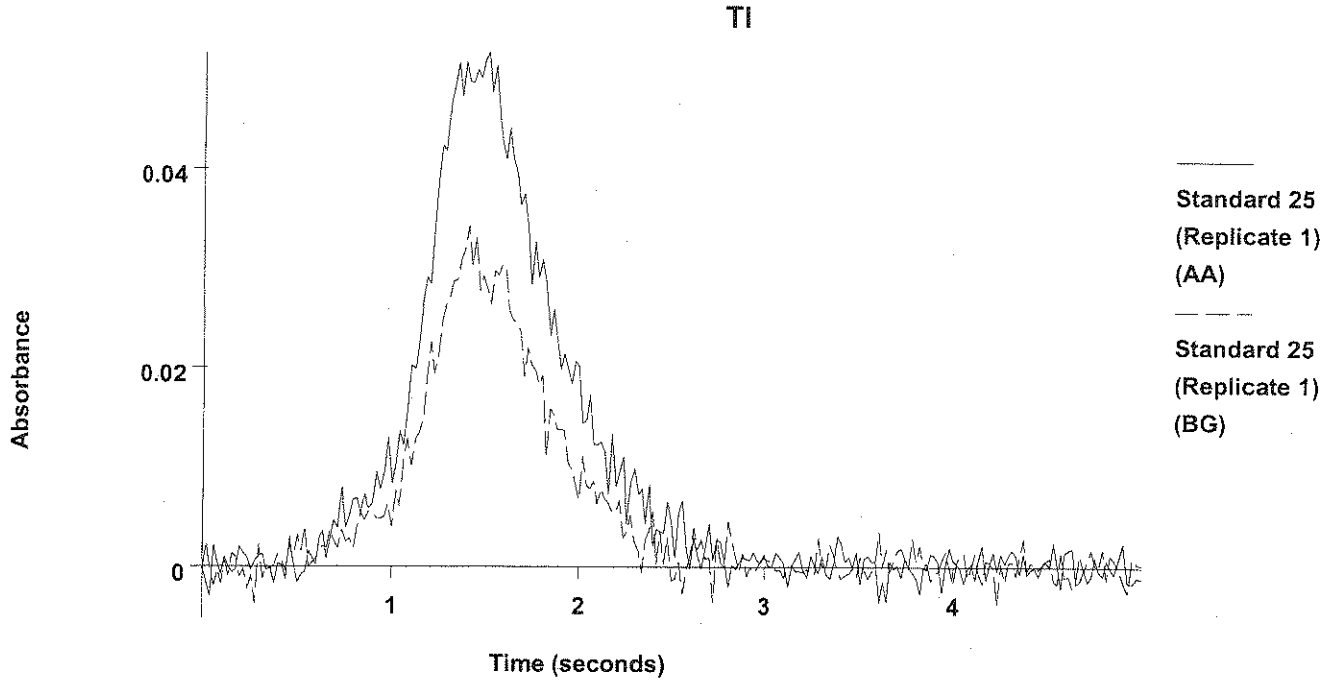
Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0179	0.0181	0.0223	0.0098	0.0143	01:03:11	Yes



2                                    0.0162    0.0164    0.0228    0.0105    0.0160    01:06:03    Yes  
 Mean:                                0.0171  
 SD :                                    0.0012  
 %RSD:                                 7.06  
 [Tl] Standard number 3 applied. [10.0]  
 Correlation Coefficient: 0.99901                                    Slope: 0.00171  
 Intercept : 0.00024

=====  
 Element: Tl    Seq. No.: 8                    AS Loc.: 126    Date: 06/26/2006  
 Sample ID: Standard 25  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0415	0.0417	0.0516	0.0251	0.0342	01:09:21	Yes



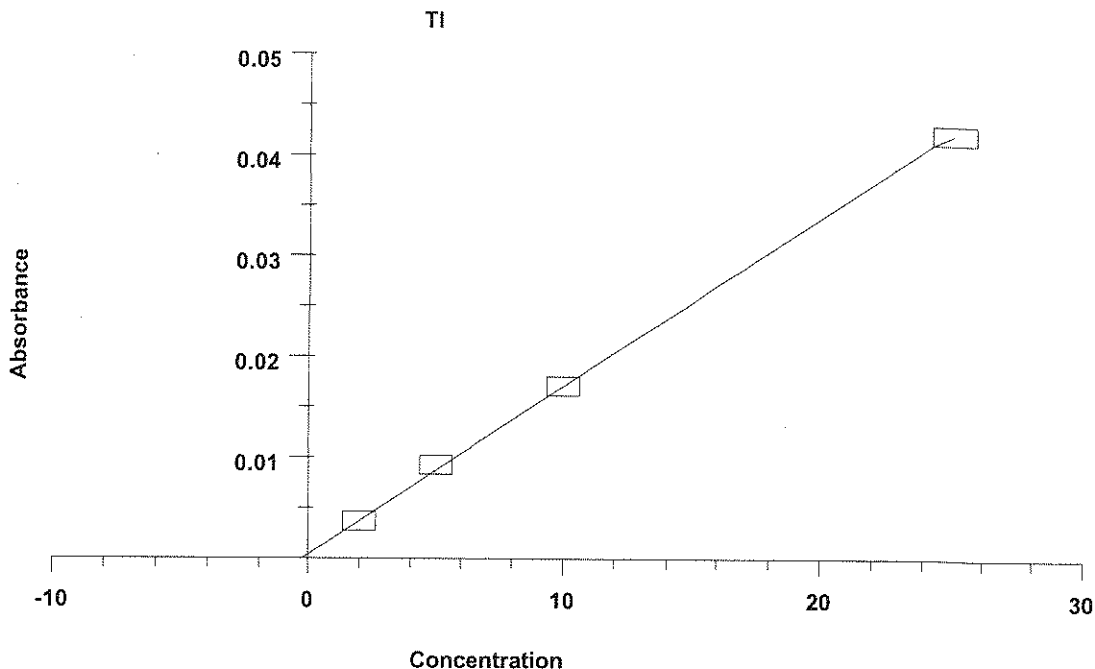
2                            0.0426    0.0428    0.0529    0.0256    0.0322    01:12:13    Yes  
 Mean:                        0.0420  
 SD :                            0.0007  
 %RSD:                        1.73  
 [T1] Standard number 4 applied. [25.0]  
 Correlation Coefficient: 0.99982                            Slope: 0.00167  
 Intercept : 0.00036

Calibration data for T1

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	0.0002	-	----	----	----
Standard 2	0.0037	2.0	2.0	0.00	6.33
Standard 5	0.0092	5.0	5.3	0.00	11.84
Standard 10	0.0171	10.0	10.0	0.00	7.06
Standard 25	0.0420	25.0	24.9	0.00	1.73
Correlation Coefficient: 0.99982		Slope:	0.00167	Intercept:	0.0004

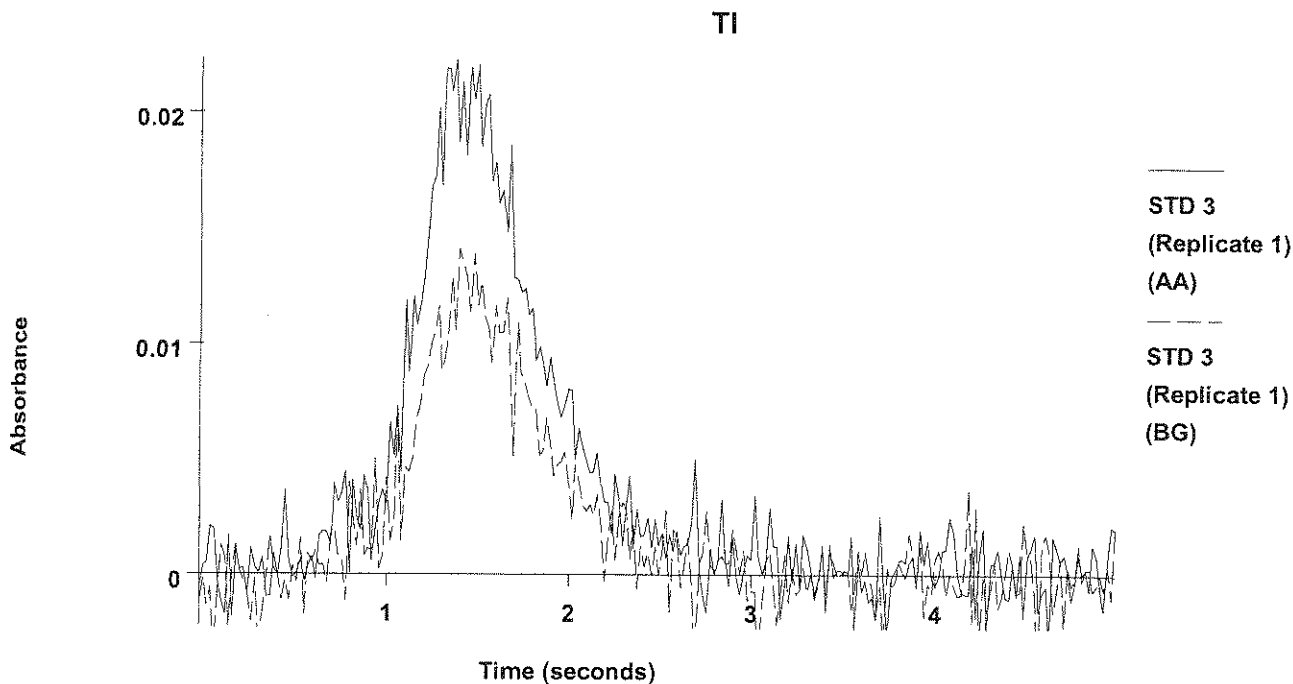
*Cal good  
 of 6/27/06*





=====  
 Element: Tl    Seq. No.: 9    AS Loc.: 124    Date: 06/26/2006  
 Sample ID: STD 3  
 µL dispensed: 10 from 148, 5 from 147, 15 from 124  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	10.4	10.4	0.0177	0.0179	0.0223	0.0096	0.0141	01:15:09	Yes



2	9.8	9.8	0.0167	0.0169	0.0224	0.0109	0.0144	01:18:02	Yes
---	-----	-----	--------	--------	--------	--------	--------	----------	-----

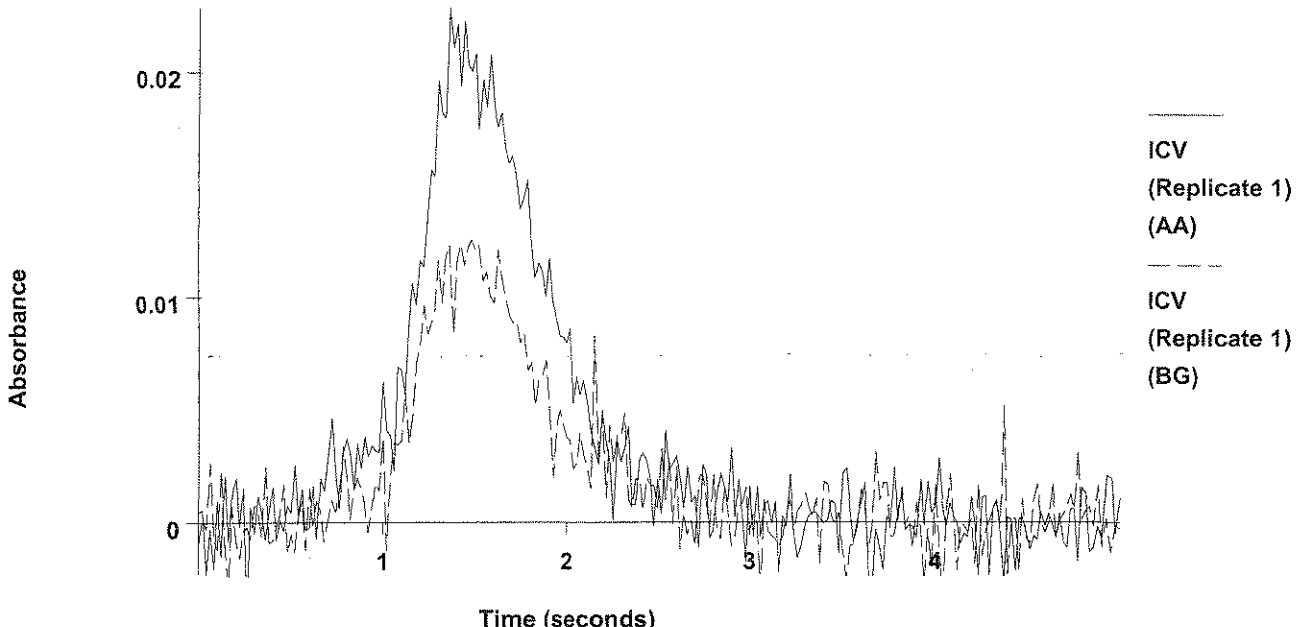
Mean: 10.1 10.1 0.0172  
 SD : 0.41 0.41 0.0007  
 %RSD: 4.04 4.04 3.95  
 QC value within specified limits.



=====  
 Element: Tl Seq. No.: 10 AS Loc.: 139 Date: 06/26/2006  
 Sample ID: ICV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 139  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	10.2	10.2	0.0175	0.0177	0.0228	0.0101	0.0126	01:20:52	Yes

TI

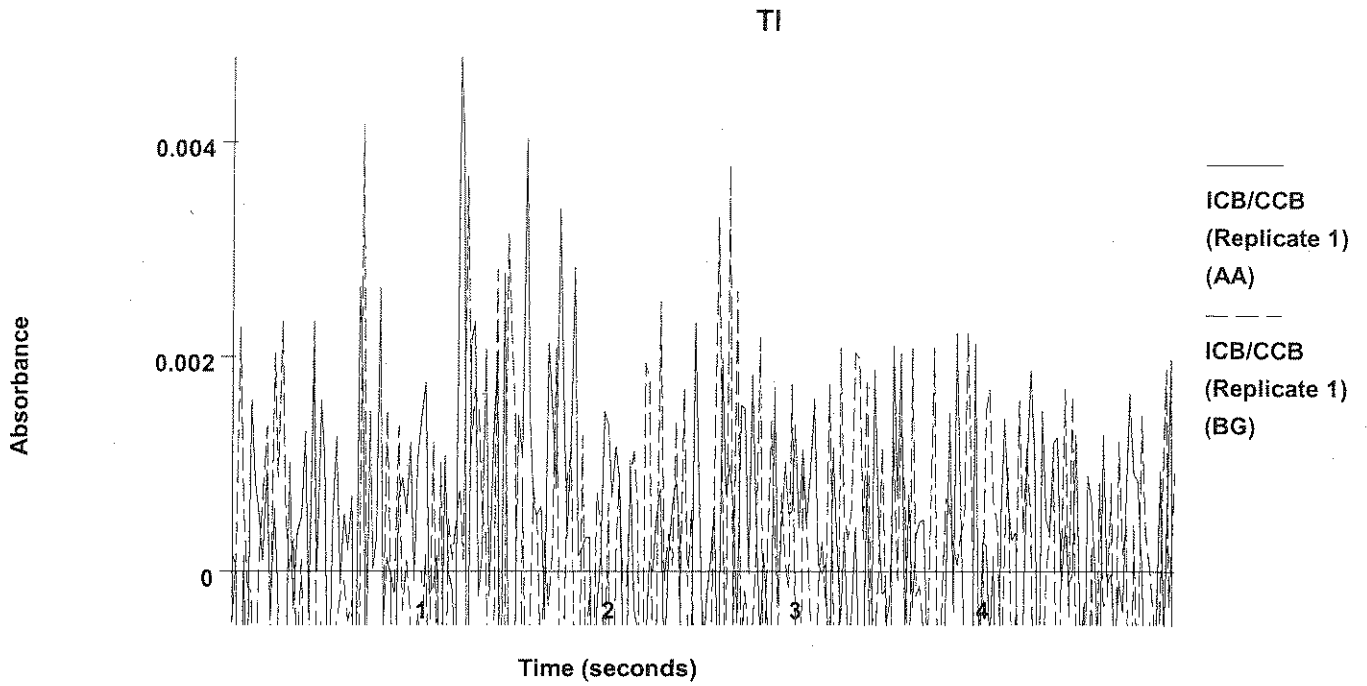


2 11.0 11.0 0.0188 0.0190 0.0245 0.0095 0.0167 01:23:42 Yes  
 Mean: 10.6 10.6 0.0181  
 SD : 0.54 0.54 0.0009  
 %RSD: 5.10 5.10 4.99  
 QC value within specified limits.



=====  
 Element: Tl Seq. No.: 11 AS Loc.: 148 Date: 06/26/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	0.0012	0.0014	0.0048	0.0003	0.0042	01:26:32	Yes

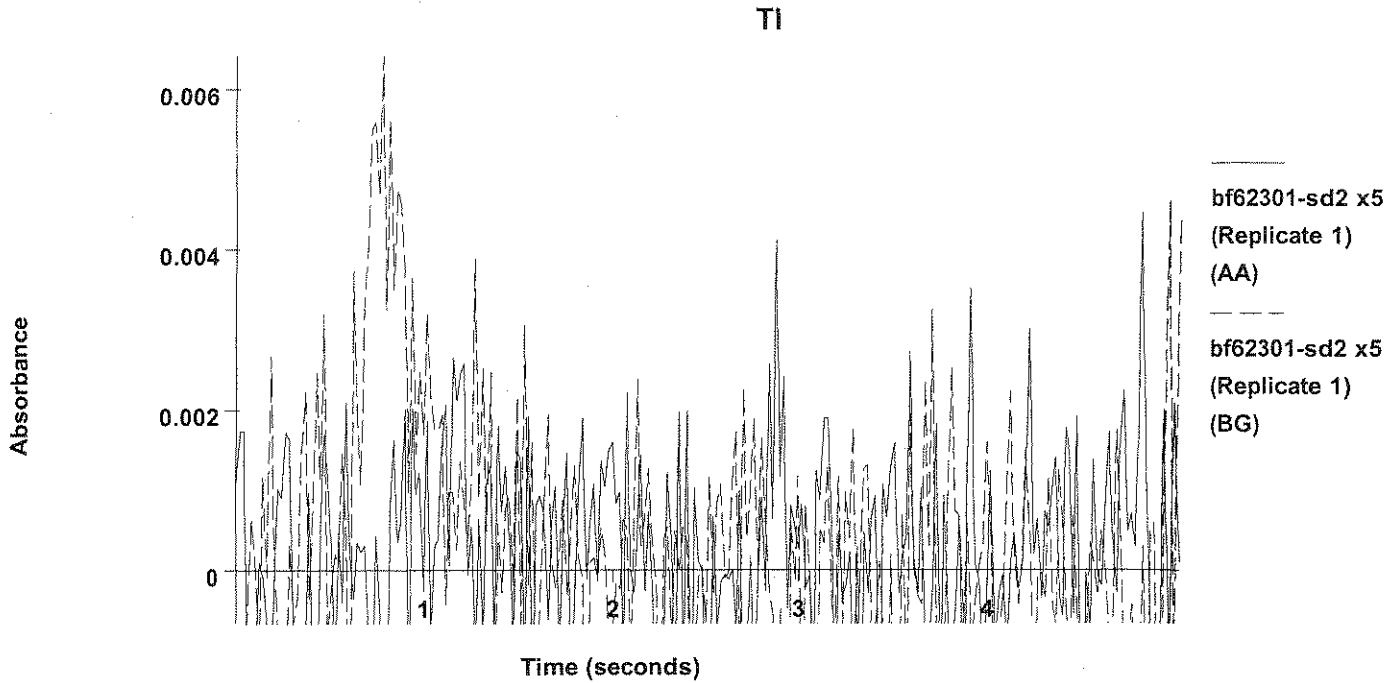


2	0.9	0.9	0.0019	0.0021	0.0032	-0.0003	0.0045	01:29:23	Yes
Mean:	0.7	0.7	0.0015						
SD :	0.30	0.30	0.0005						
%RSD:	42.03	42.03	32.08						

QC value within specified limits.

=====  
 Element: Tl    Seq. No.: 12    AS Loc.: 2    Date: 06/26/2006  
 Sample ID: bf62206-blk1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 2  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0007	0.0009	0.0052	0.0002	0.0040	01:32:12	Yes



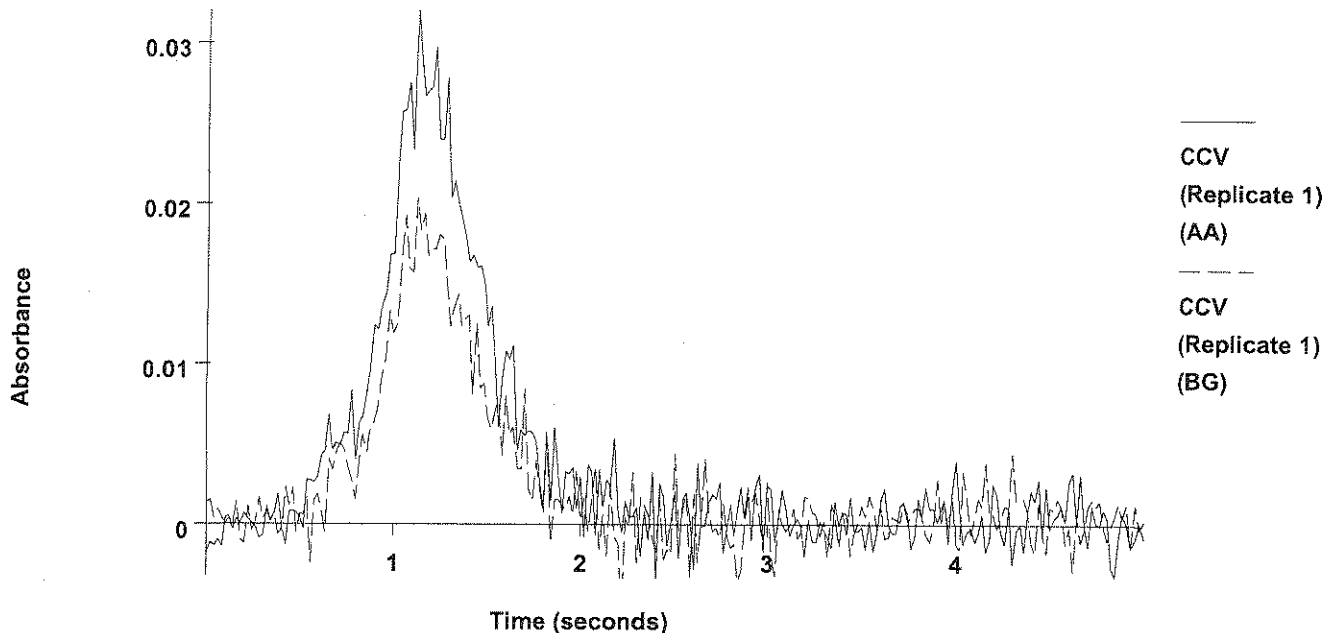
2	-0.2	-0.2	0.0000	0.0002	0.0036	0.0022	0.0051	08:49:45	Yes
Mean:	0.1	0.1	0.0006						
SD :	0.50	0.50	0.0008						
%RSD:	393.4	393.4	144.91						

*Handwritten mark resembling the number 14*

=====  
 Element: Tl    Seq. No.: 89    AS Loc.: 124    Date: 06/26/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 124  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	11.1	11.1	0.0189	0.0191	0.0321	0.0122	0.0204	08:52:36	Yes

Tl

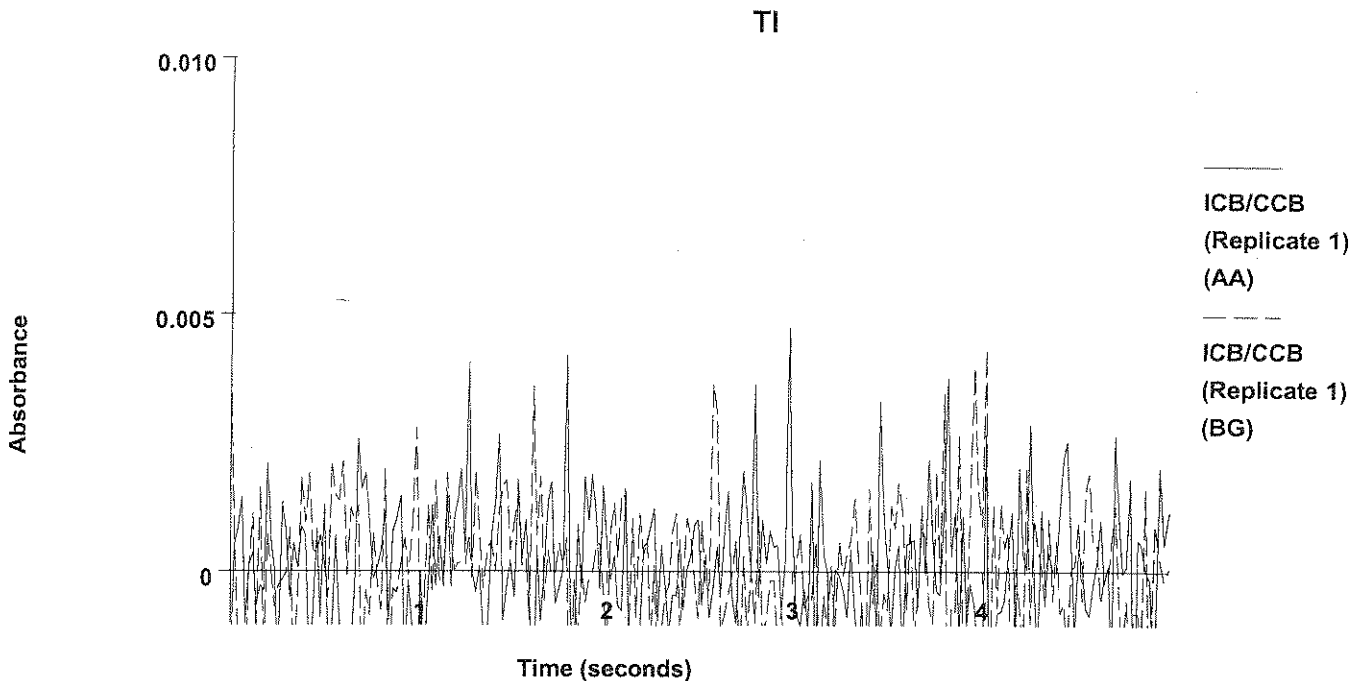


2	10.5	10.5	0.0179	0.0181	0.0262	0.0102	0.0188	08:55:27	Yes
Mean:	10.8	10.8	0.0184						
SD :	0.42	0.42	0.0007						
%RSD:	3.93	3.93	3.85						

QC value within specified limits.

=====  
 Element: Tl    Seq. No.: 90    AS Loc.: 148    Date: 06/26/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0005	0.0007	0.0047	0.0006	0.0043	08:58:18	Yes



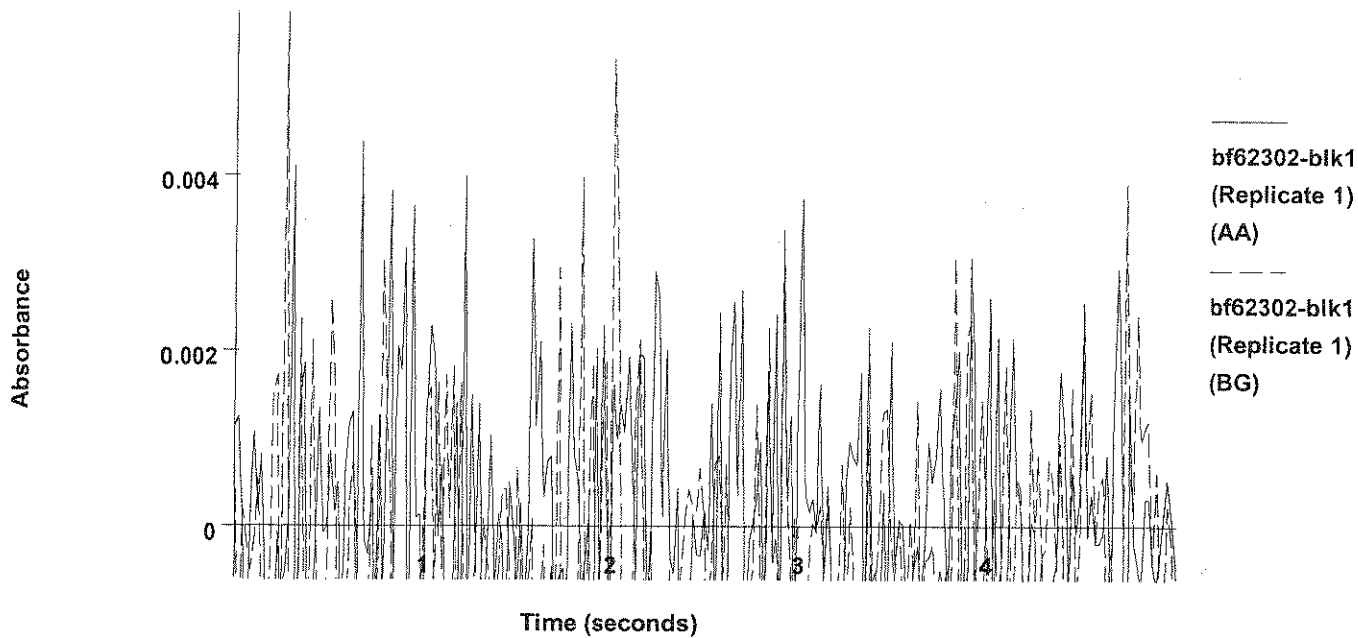
2	0.1	0.1	0.0005	0.0007	0.0043	0.0006	0.0056	09:01:07	Yes
Mean:	0.1	0.1	0.0005						
SD :	0.00	0.00	0.0000						
%RSD:	3.86	3.86	0.97						

QC value within specified limits.

=====  
 Element: Tl    Seq. No.: 91    AS Loc.: 54    Date: 06/26/2006  
 Sample ID: bf62302-blk1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 54  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0008	0.0010	0.0044	-0.0017	0.0059	09:03:55	Yes

TI



2	-0.7	-0.7	-0.0008	-0.0006	0.0051	0.0017	0.0043	09:06:43	Yes
Mean:	-0.2	-0.2	0.0000						
SD :	0.64	0.64	0.0011						
%RSD:	293.5	293.5	215542.09						

*Handwritten initials*

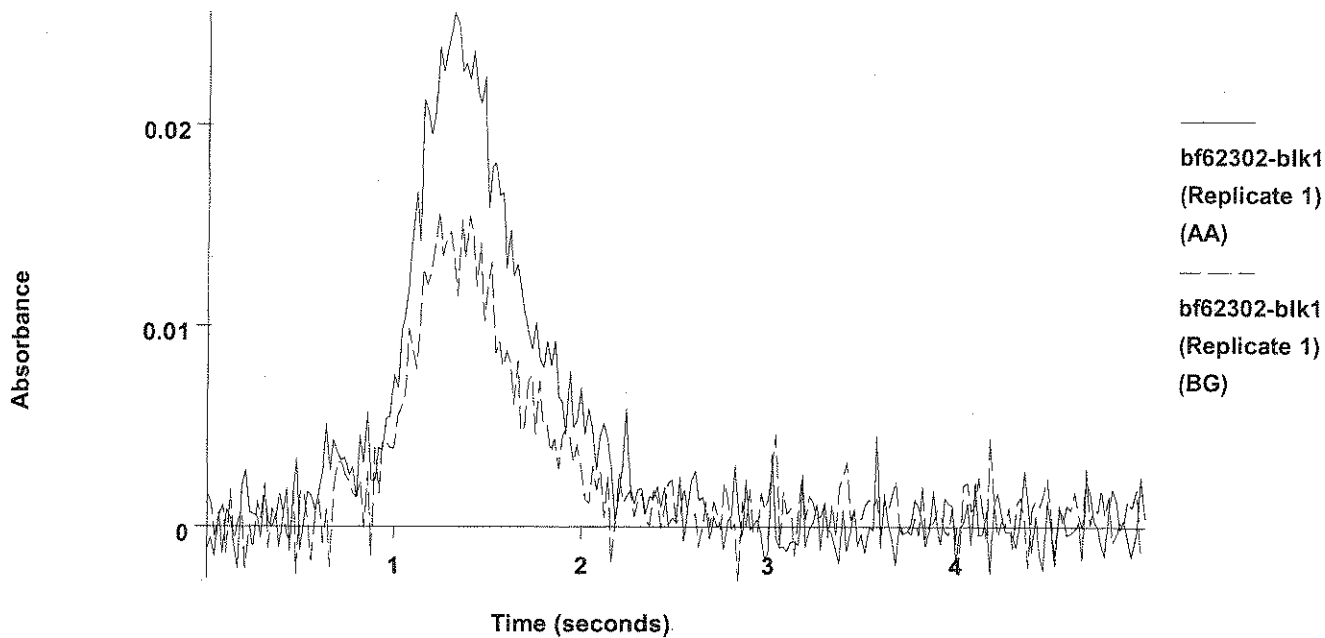
=====  
 Element: Tl    Seq. No.: 92    AS Loc.: 54    Date: 06/26/2006

Sample ID: bf62302-blk1

µL dispensed: 7 from 148, 5 from 147, 3 from 131, 15 from 54

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	10.7	10.7	0.0182	0.0184	0.0256	0.0124	0.0157	09:09:40	Yes

Tl



2	12.2	12.2	0.0208	0.0210	0.0298	0.0147	0.0203	09:12:37	Yes
Mean:	11.4	11.4	0.0195						
SD :	1.09	1.09	0.0018						
%RSD:	9.52	9.52	9.34						

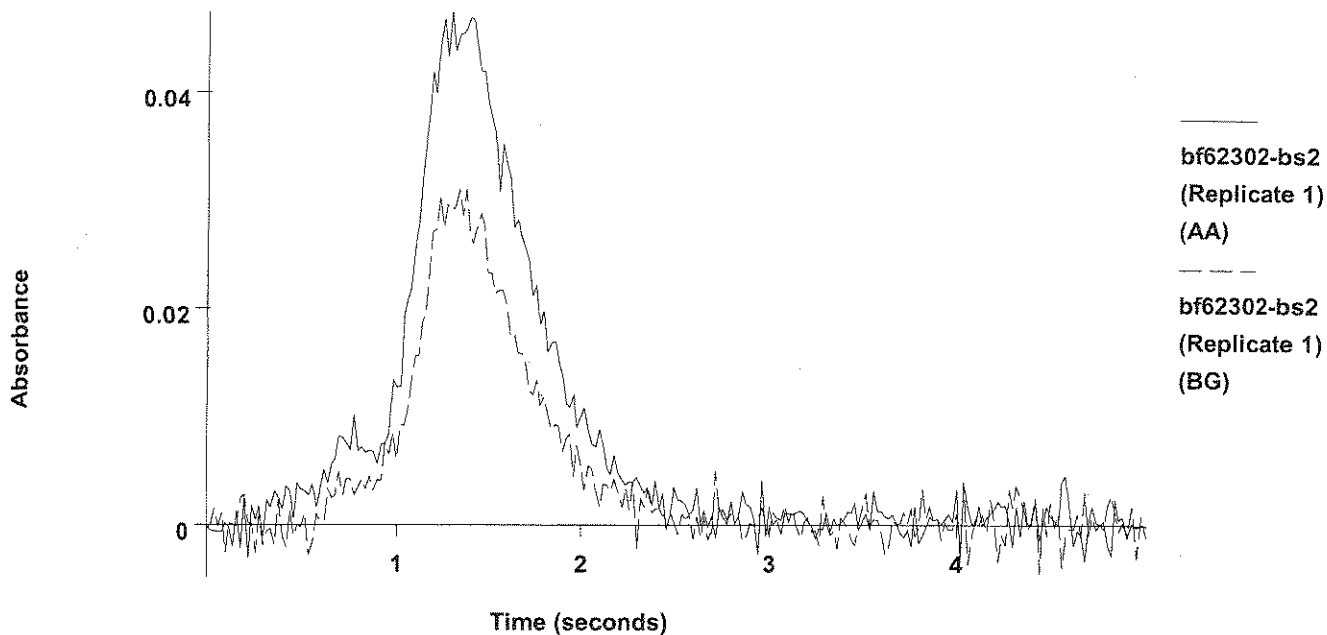
Recovery for Tl = 114.4 % within 85 % to 115 %

=====  
 Element: Tl    Seq. No.: 93    AS Loc.: 55    Date: 06/26/2006  
 Sample ID: bf62302-bs2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 55  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	22.0	22.0	0.0371	0.0373	0.0475	0.0216	0.0310	09:15:26	Yes



Tl



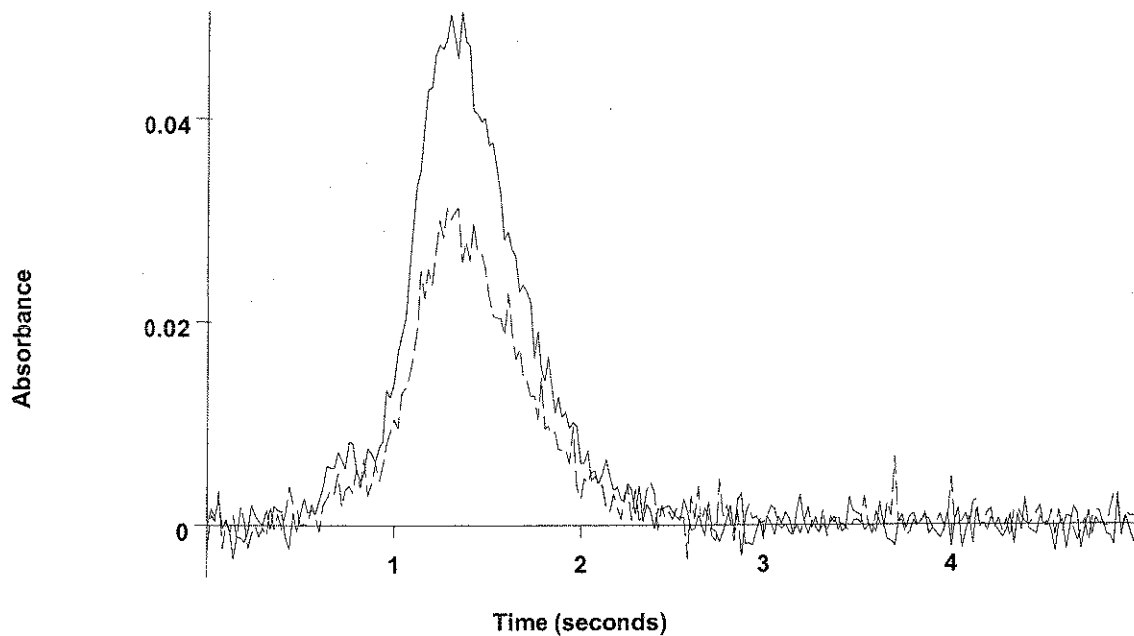
2	20.0	20.0	0.0337	0.0339	0.0510	0.0239	0.0339	09:18:15	Yes
Mean:	21.0	21.0	0.0354						
SD :	1.44	1.44	0.0024						
%RSD:	6.88	6.88	6.81						

1055

=====  
 Element: Tl    Seq. No.: 94    AS Loc.: 56    Date: 06/26/2006  
 Sample ID: bf62302-bsd2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 56  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.1	20.1	0.0339	0.0341	0.0506	0.0231	0.0313	09:21:04	Yes

Tl



-----  
 bf62302-bsd2  
 (Replicate 1)  
 (AA)  
 -----  
 bf62302-bsd2  
 (Replicate 1)  
 (BG)

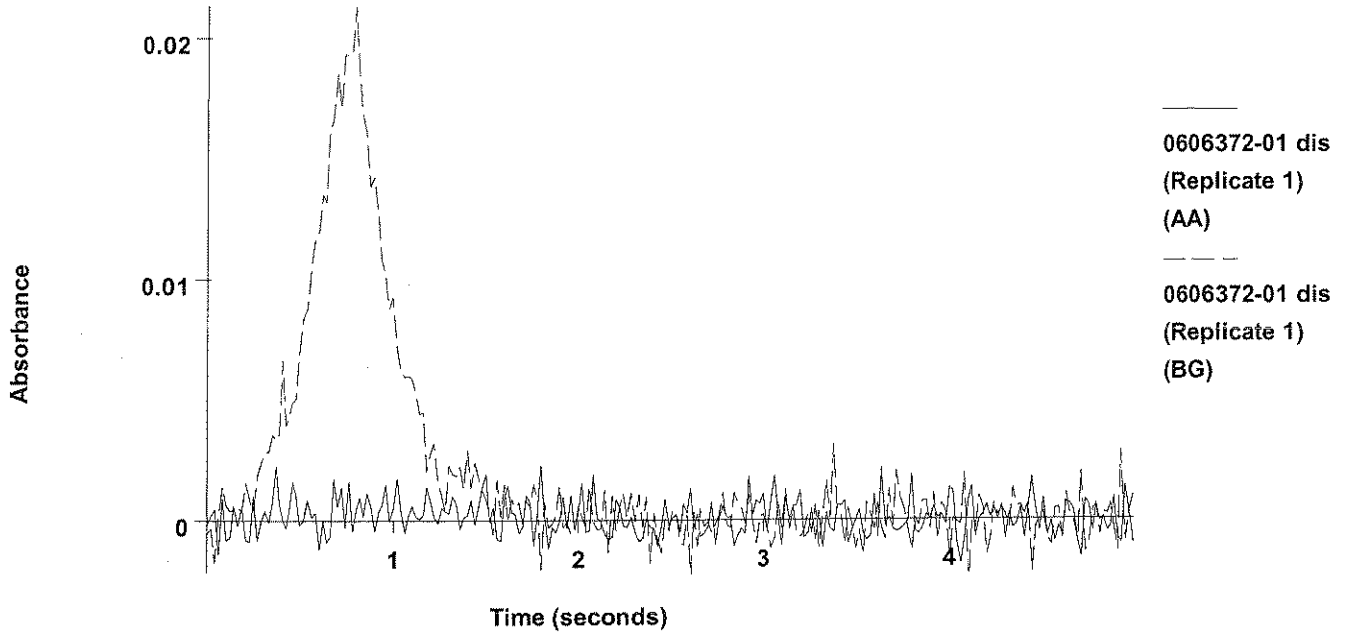
2	21.3	21.3	0.0359	0.0361	0.0510	0.0226	0.0312	09:23:53	Yes
Mean:	20.7	20.7	0.0349						
SD :	0.85	0.85	0.0014						
%RSD:	4.11	4.11	4.07						

10452

=====  
 Element: Tl    Seq. No.: 95    AS Loc.: 57    Date: 06/26/2006  
 Sample ID: 0606372-01 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 57  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0005	0.0007	0.0023	0.0101	0.0213	09:26:42	Yes

Tl

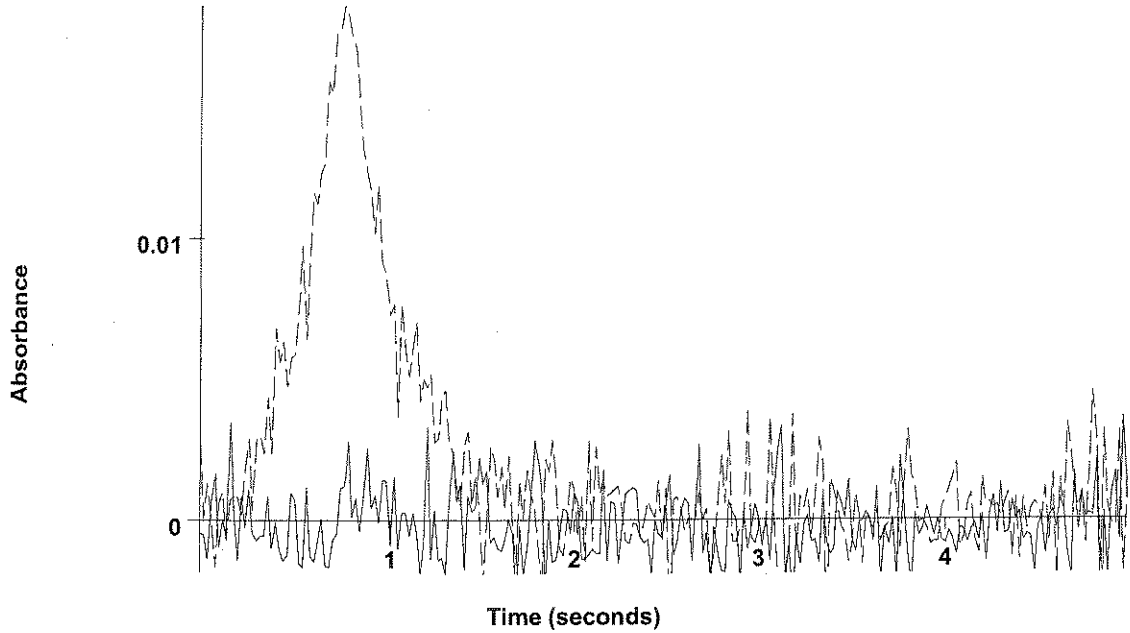


2	0.4	0.4	0.0010	0.0012	0.0041	0.0106	0.0224	09:29:31	Yes
Mean:	0.2	0.2	0.0007						
SD :	0.18	0.18	0.0003						
%RSD:	81.38	81.38	41.36						

=====  
 Element: Tl    Seq. No.: 96    AS Loc.: 58    Date: 06/26/2006  
 Sample ID: 0606372-02 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 58  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.8	-0.8	-0.0010	-0.0008	0.0037	0.0107	0.0182	09:32:22	Yes

TI



0606372-02 dis  
(Replicate 1)  
(AA)

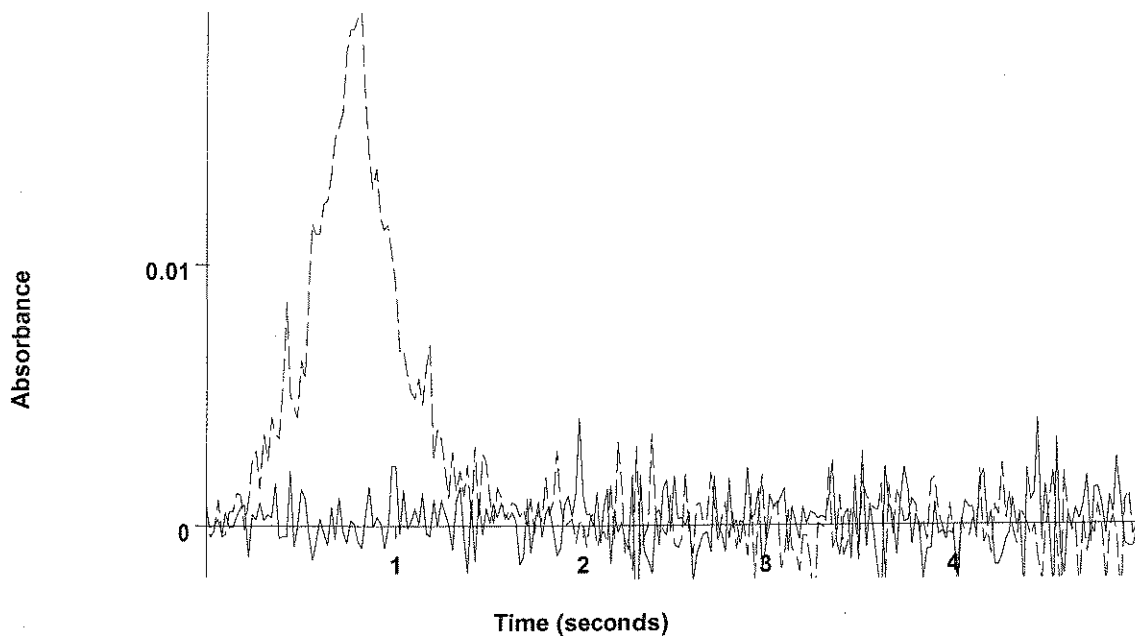
0606372-02 dis  
(Replicate 1)  
(BG)

2	0.3	0.3	0.0009	0.0011	0.0046	0.0084	0.0208	09:35:13	Yes
Mean:	-0.3	-0.3	-0.0001						
SD :	0.80	0.80	0.0013						
%RSD:	299.4	299.4	1649.11						

=====  
 Element: Tl    Seq. No.: 97    AS Loc.: 59    Date: 06/26/2006  
 Sample ID: 0606372-03 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 59  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0007	0.0009	0.0041	0.0101	0.0196	09:38:03	Yes

Tl



0606372-03 dis  
(Replicate 1)  
(AA)

0606372-03 dis  
(Replicate 1)  
(BG)

2	0.5	0.5	0.0013	0.0015	0.0041	0.0086	0.0214	09:40:52	Yes
Mean:	0.4	0.4	0.0010						
SD :	0.24	0.24	0.0004						
%RSD:	65.31	65.31	40.93						

*Handwritten signature or initials*

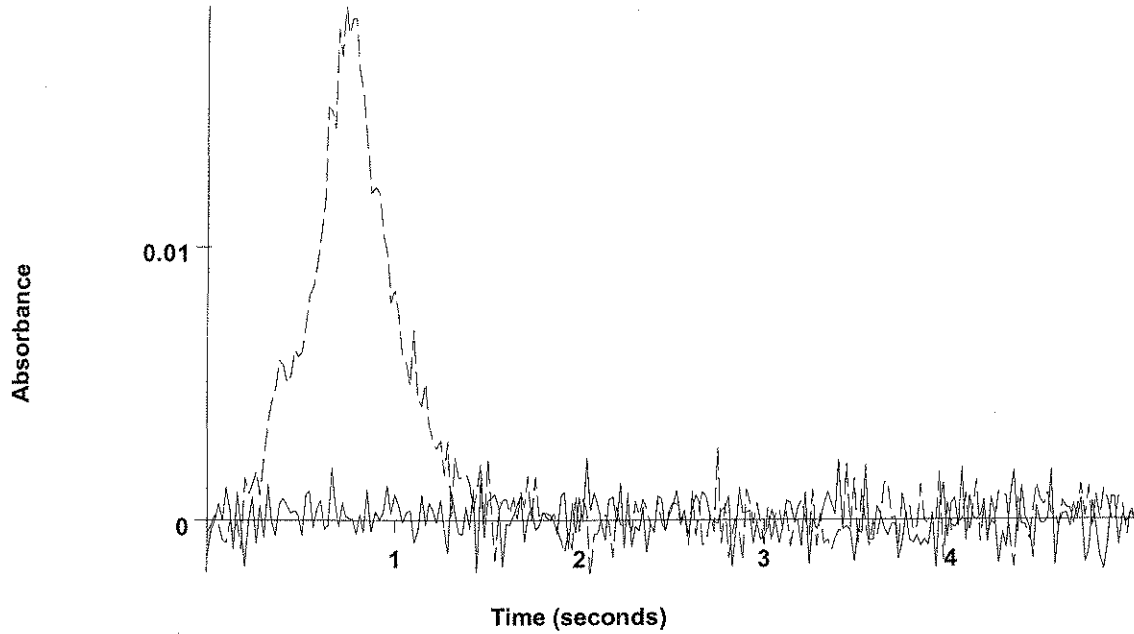
=====  
Element: Tl    Seq. No.: 98    AS Loc.: 60    Date: 06/26/2006

Sample ID: 0606372-01

µL dispensed: 10 from 148, 5 from 147, 15 from 60

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	0.0001	0.0003	0.0023	0.0096	0.0188	09:43:42	Yes

TI



-----  
0606372-01  
(Replicate 1)  
(AA)

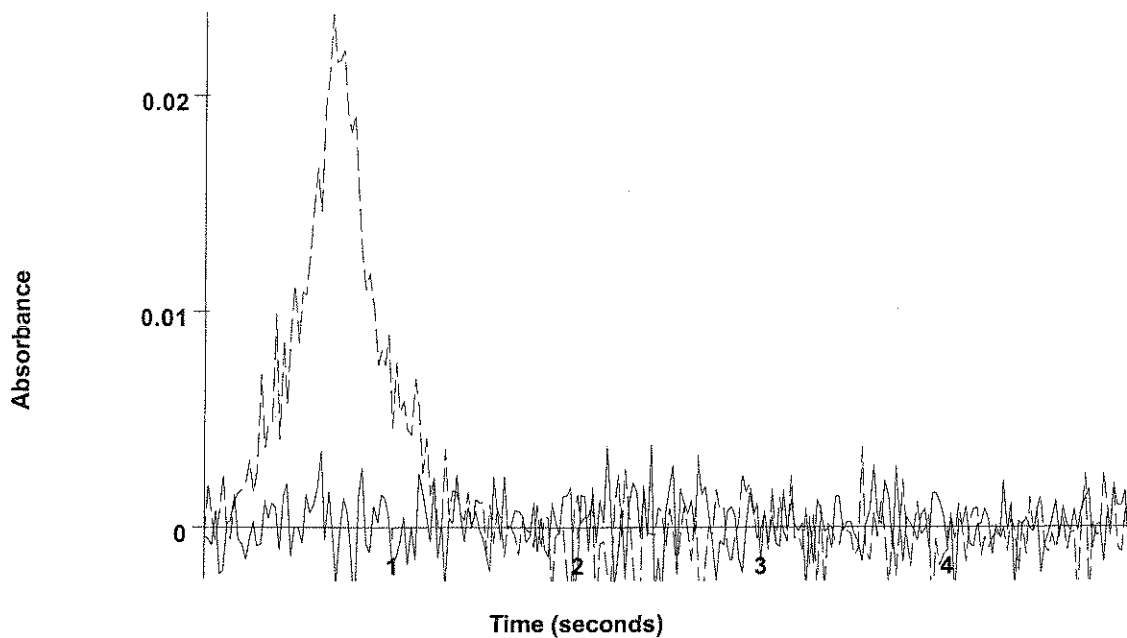
-----  
0606372-01  
(Replicate 1)  
(BG)

2	0.2	0.2	0.0006	0.0008	0.0030	0.0089	0.0213	09:46:31	Yes
Mean:	0.0	0.0	0.0004						
SD :	0.22	0.22	0.0004						
%RSD:	1526	1526	93.93						

=====  
Element: Tl    Seq. No.: 99    AS Loc.: 61    Date: 06/26/2006  
Sample ID: 0606372-02  
µL dispensed: 10 from 148, 5 from 147, 15 from 61  
=====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0006	0.0008	0.0039	0.0096	0.0239	09:49:20	Yes

Tl



0606372-02  
(Replicate 1)  
(AA)

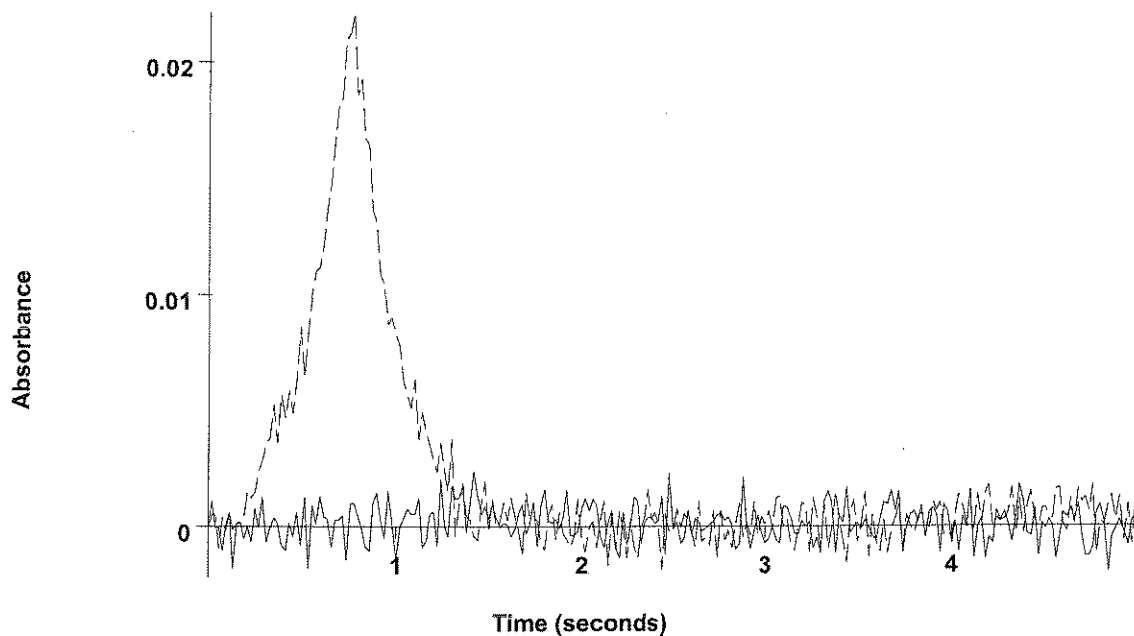
0606372-02  
(Replicate 1)  
(BG)

2	-0.3	-0.3	-0.0001	0.0001	0.0037	0.0116	0.0228	09:52:09	Yes
Mean:	-0.1	-0.1	0.0003						
SD :	0.28	0.28	0.0005						
%RSD:	503.6	503.6	175.68						

=====  
 Element: Tl    Seq. No.: 100    AS Loc.: 62    Date: 06/26/2006  
 Sample ID: 0606372-03  
 µL dispensed: 10 from 148, 5 from 147, 15 from 62  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0006	0.0008	0.0024	0.0104	0.0222	09:55:00	Yes

TI



0606372-03  
(Replicate 1)  
(AA)

0606372-03  
(Replicate 1)  
(BG)

2	-0.3	-0.3	-0.0002	0.0000	0.0041	0.0095	0.0225	09:57:50	Yes
Mean:	-0.1	-0.1	0.0002						
SD :	0.32	0.32	0.0005						
%RSD:	291.0	291.0	293.80						

*Handwritten signature*

=====  
Element: T1    Seq. No.: 101    AS Loc.: 62    Date: 06/26/2006

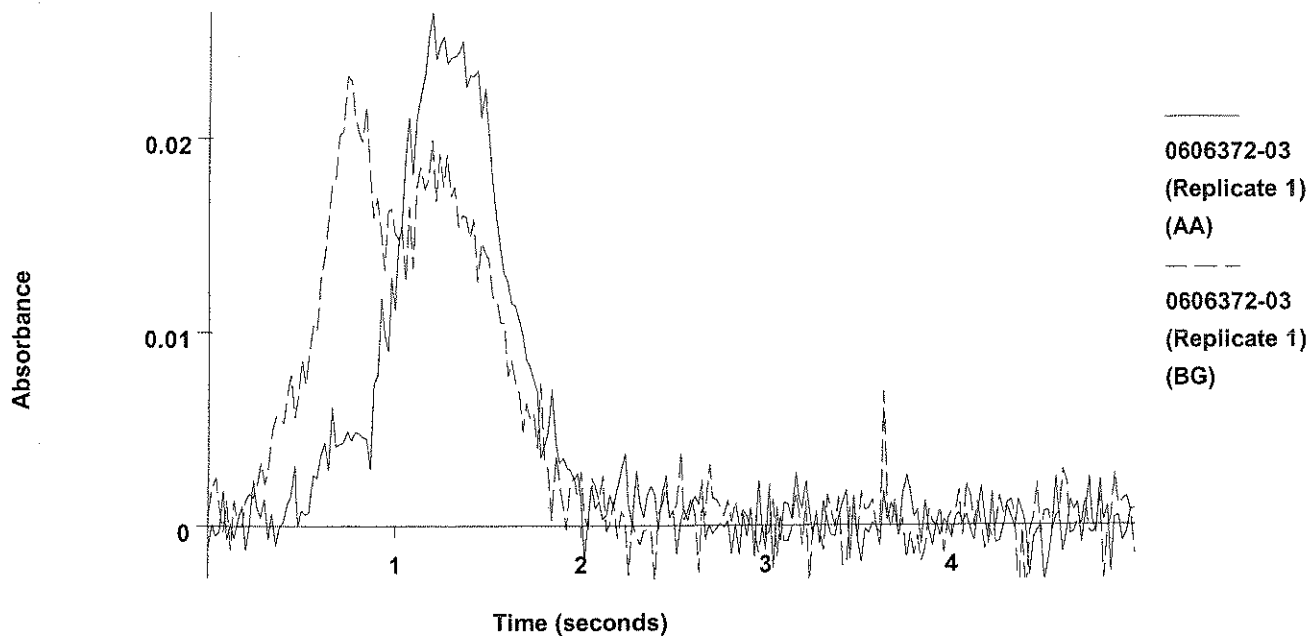
Sample ID: 0606372-03

µL dispensed: 7 from 148, 5 from 147, 3 from 131, 15 from 62

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	11.1	11.1	0.0189	0.0191	0.0265	0.0214	0.0232	10:00:50	Yes



TI



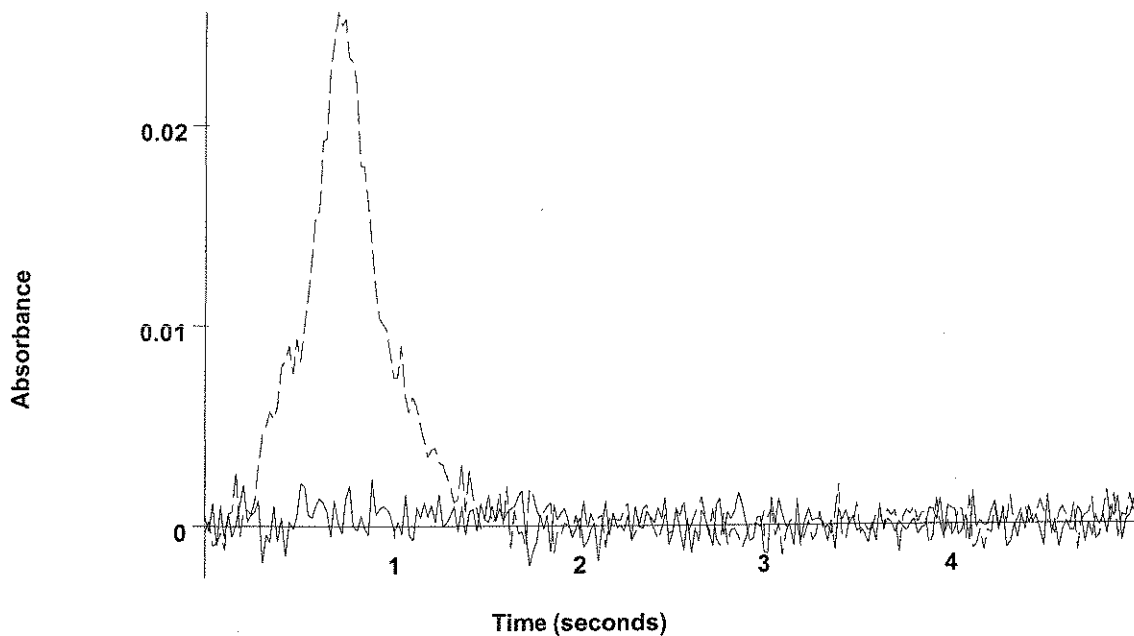
2	10.9	10.9	0.0187	0.0189	0.0270	0.0218	0.0240	10:03:49	Yes
Mean:	11.0	11.0	0.0188						
SD :	0.10	0.10	0.0002						
%RSD:	0.93	0.93	0.91						

Recovery for Tl = 110.2 % within 85 % to 115 %

=====  
 Element: Tl    Seq. No.: 102    AS Loc.: 63    Date: 06/26/2006  
 Sample ID: bf62302-dup1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 63  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0008	0.0010	0.0024	0.0124	0.0257	10:06:39	Yes

TI



-----  
 bf62302-dup1  
 (Replicate 1)  
 (AA)  
 -----  
 bf62302-dup1  
 (Replicate 1)  
 (BG)

2	0.1	0.1	0.0005	0.0007	0.0039	0.0093	0.0207	10:09:28	Yes
Mean:	0.2	0.2	0.0006						
SD :	0.13	0.13	0.0002						
%RSD:	87.79	87.79	36.26						

*M*

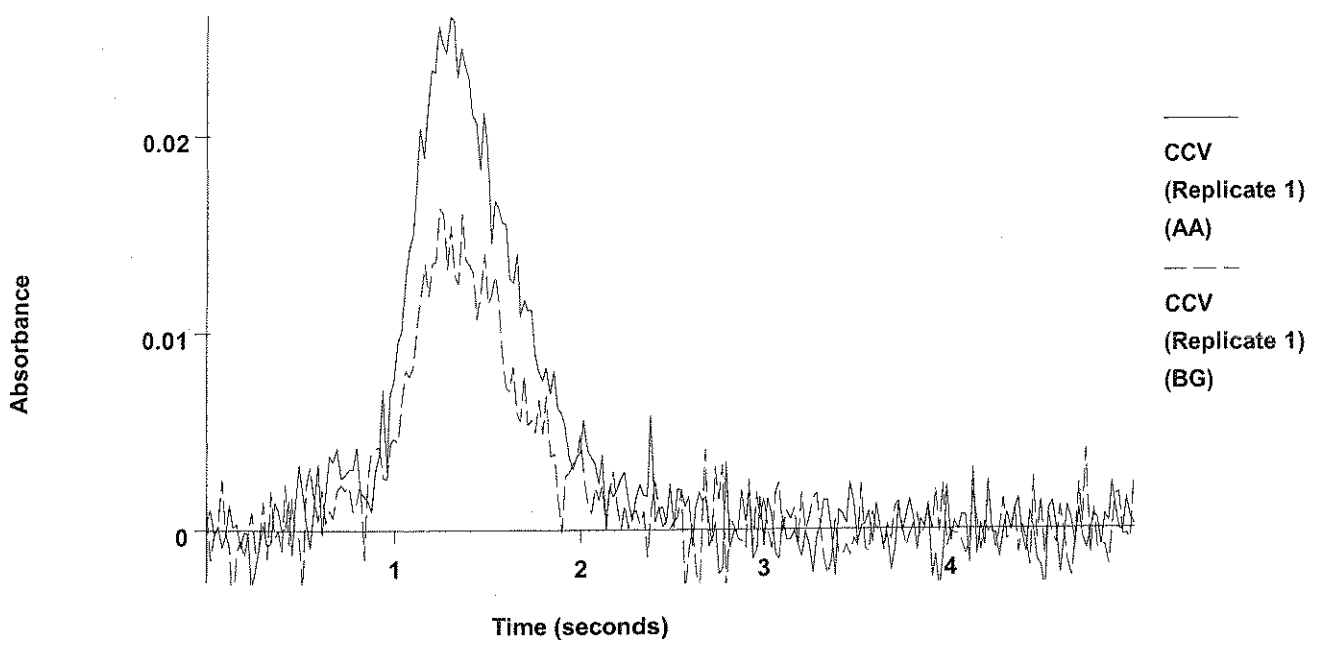
=====  
 Element: Tl    Seq. No.: 103    AS Loc.: 124    Date: 06/26/2006

Sample ID: CCV

µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	10.4	10.4	0.0177	0.0179	0.0261	0.0107	0.0164	10:12:20	Yes

Tl



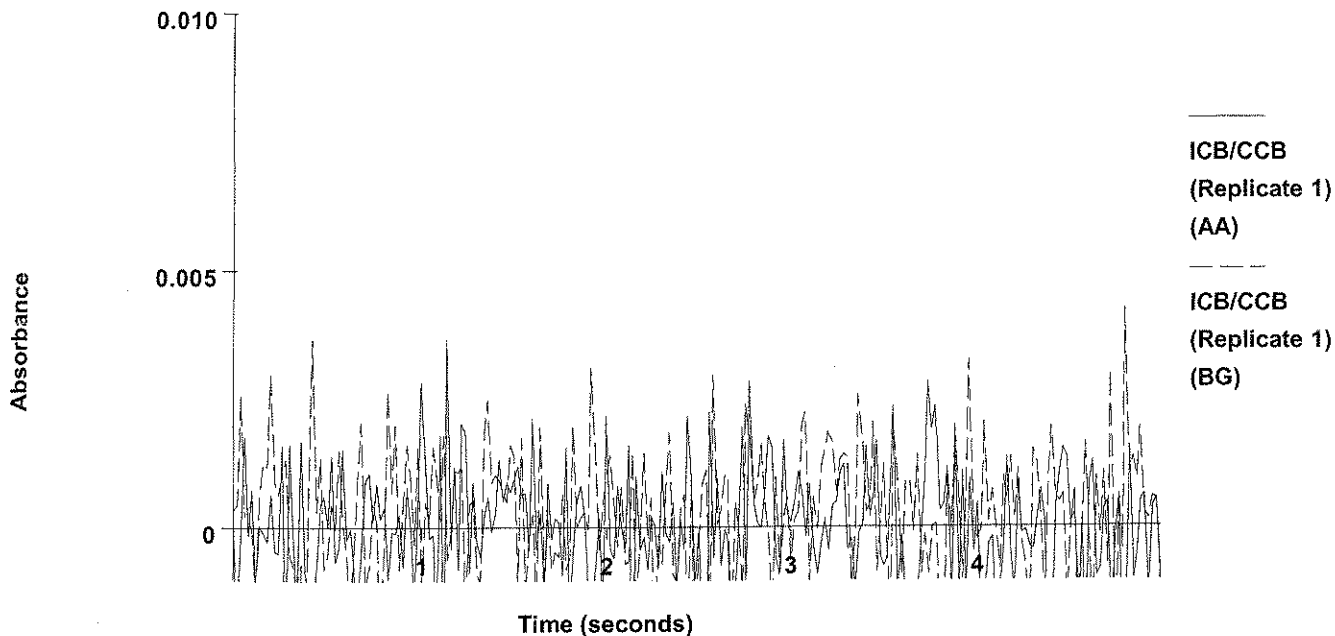
2	10.2	10.2	0.0174	0.0176	0.0284	0.0130	0.0168	10:15:11	Yes
Mean:	10.3	10.3	0.0175						
SD :	0.10	0.10	0.0002						
%RSD:	0.99	0.99	0.97						

QC value within specified limits. ✓

=====  
 Element: Tl    Seq. No.: 104    AS Loc.: 148    Date: 06/26/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0002	0.0000	0.0037	0.0017	0.0042	10:18:02	Yes

TI



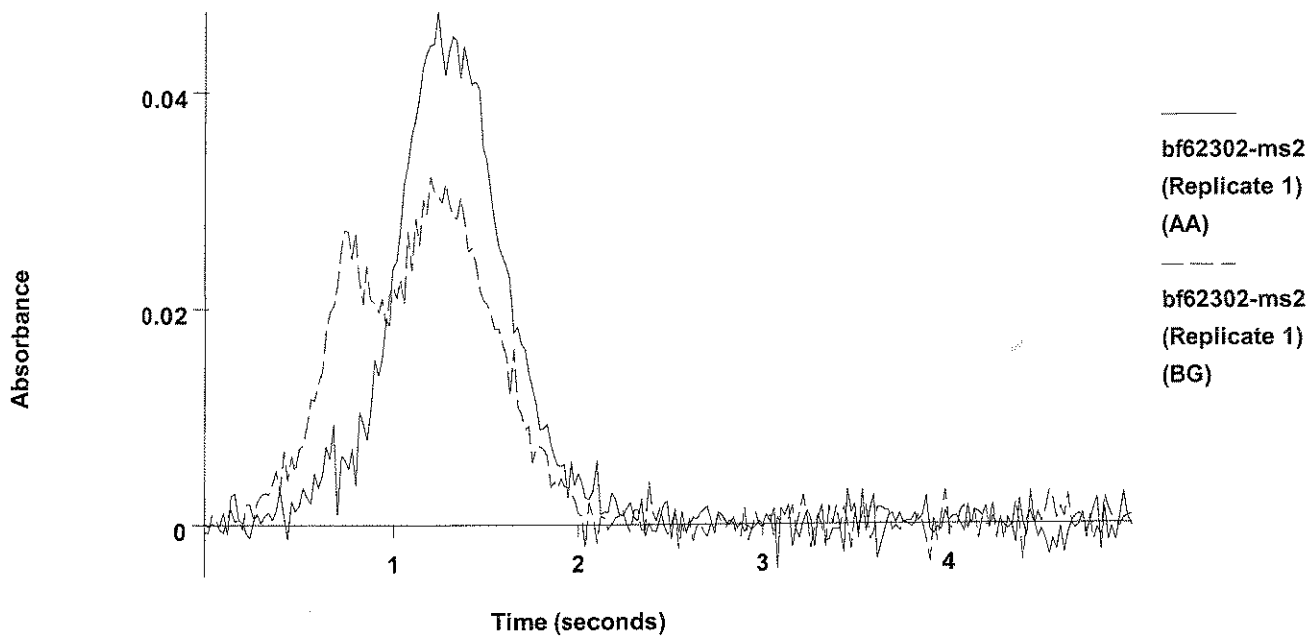
2	0.7	0.7	0.0015	0.0017	0.0054	0.0006	0.0046	10:20:51	Yes
Mean:	0.2	0.2	0.0007						
SD :	0.69	0.69	0.0012						
%RSD:	394.5	394.5	175.49						

QC value within specified limits. ✓

=====  
 Element: Tl    Seq. No.: 105    AS Loc.: 64    Date: 06/26/2006  
 Sample ID: bf62302-ms2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 64  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.0	19.0	0.0321	0.0323	0.0475	0.0293	0.0323	10:23:40	Yes

TI



2	19.3	19.3	0.0326	0.0328	0.0468	0.0294	0.0329	10:26:30	Yes
Mean:	19.1	19.1	0.0323						
SD :	0.23	0.23	0.0004						
%RSD:	1.18	1.18	1.17						

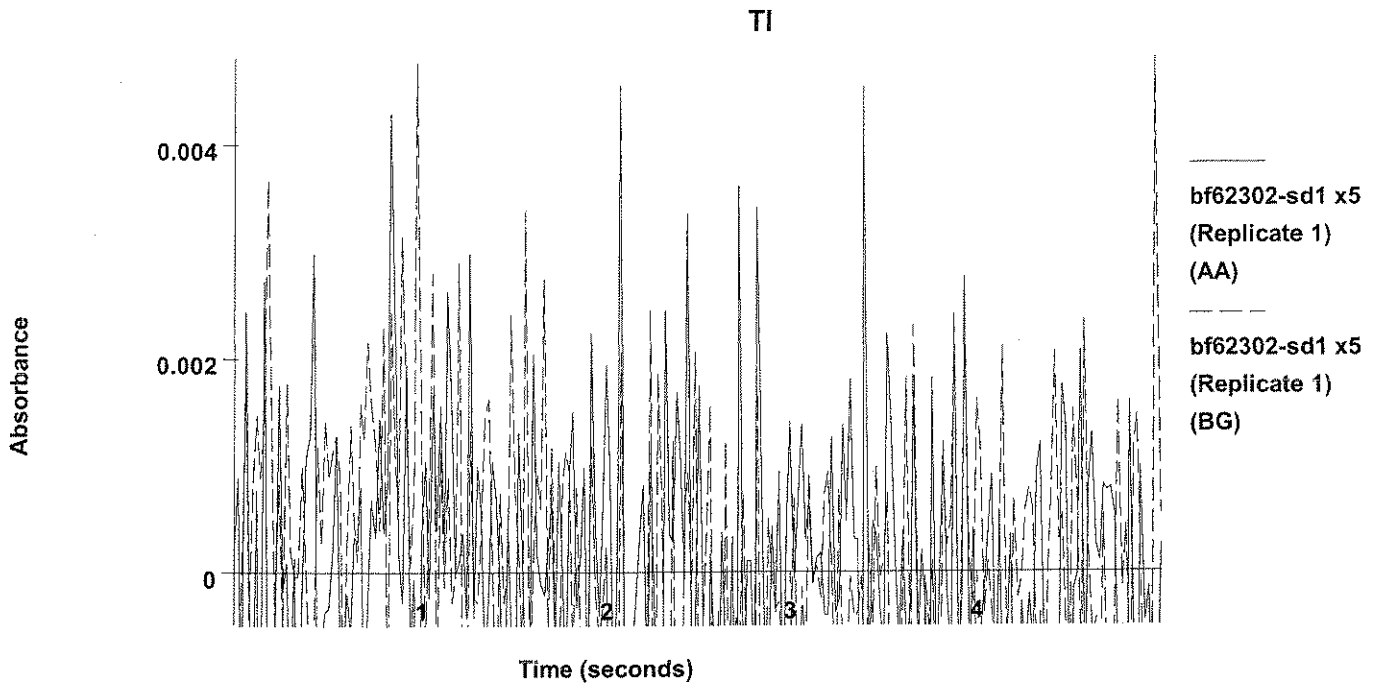
965

=====  
 Element: Tl Seq. No.: 106 AS Loc.: 65 Date: 06/26/2006

Sample ID: bf62302-sd1 x5

µL dispensed: 10 from 148, 5 from 147, 15 from 65

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	0.0002	0.0004	0.0046	0.0003	0.0048	10:29:21	Yes

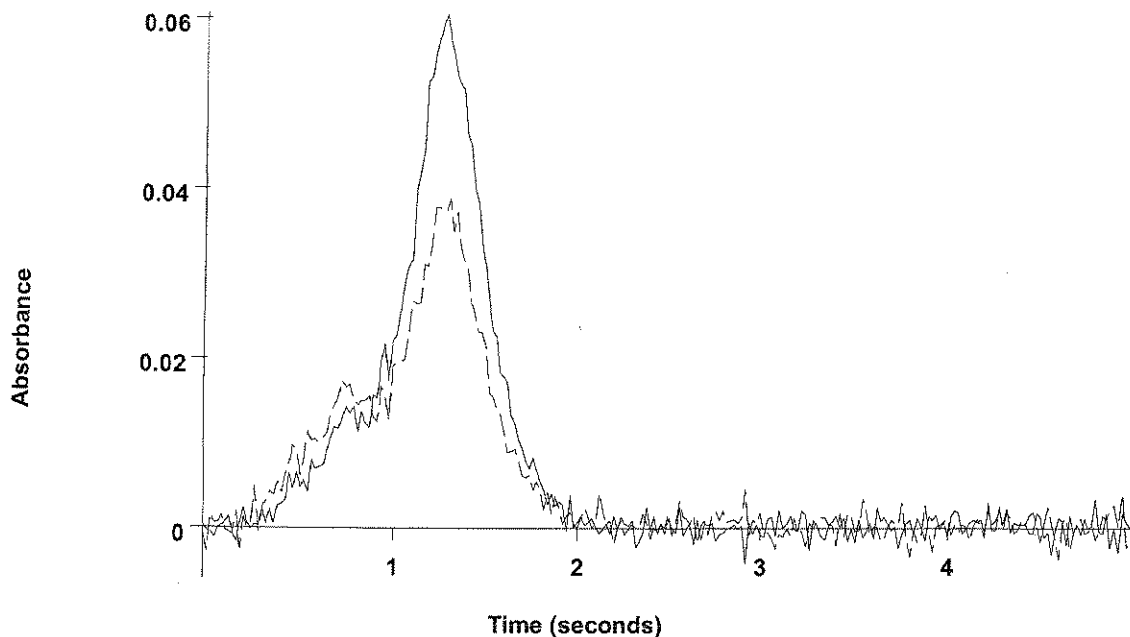


2	-0.1	-0.1	0.0002	0.0004	0.0047	0.0022	0.0043	10:32:11	Yes
Mean:	-0.1	-0.1	0.0002						
SD :	0.01	0.01	0.0000						
%RSD:	16.75	16.75	10.27						

=====  
 Element: Tl    Seq. No.: 107    AS Loc.: 66    Date: 06/26/2006  
 Sample ID: 0606375-01  
 µL dispensed: 10 from 148, 5 from 147, 15 from 66  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.3	0.3	0.0009	0.0011	0.0028	0.0288	0.0543	10:35:01	Yes

TI



bf62403-ms3  
(Replicate 1)  
(AA)  
bf62403-ms3  
(Replicate 1)  
(BG)

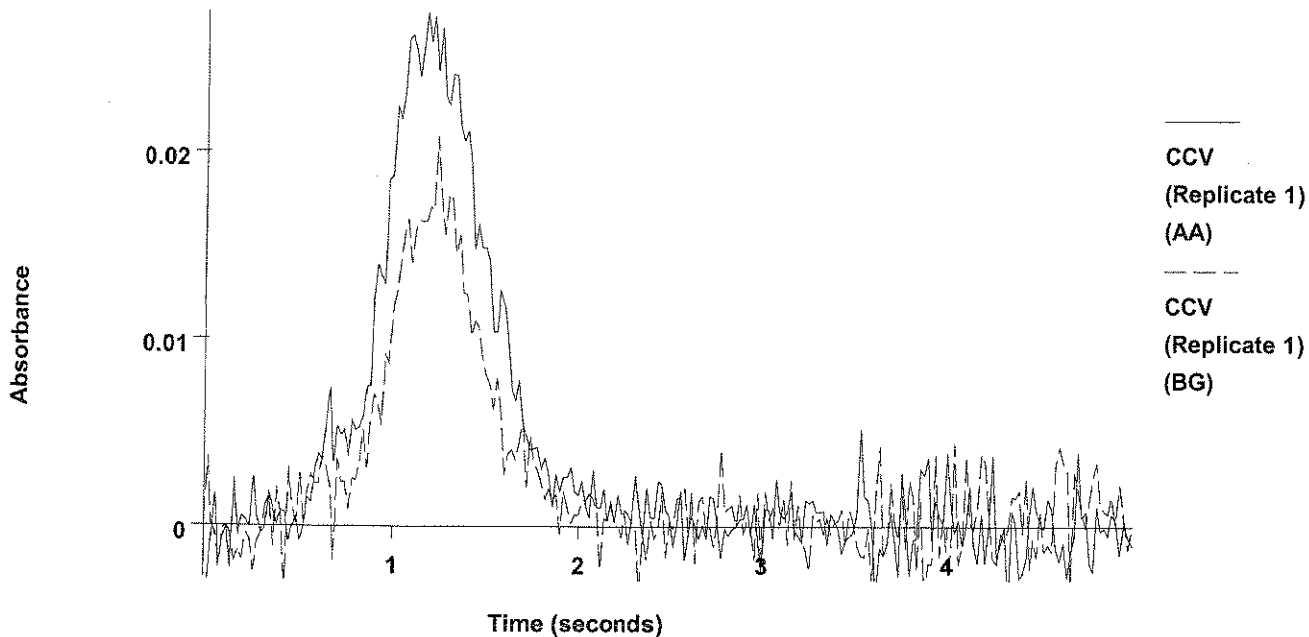
2	20.3	20.3	0.0342	0.0344	0.0629	0.0256	0.0384	11:53:00	Yes
Mean:	20.2	20.2	0.0341						
SD :	0.06	0.06	0.0001						
%RSD:	0.31	0.31	0.31						

1015

=====  
Element: Tl    Seq. No.: 121    AS Loc.: 124    Date: 06/26/2006  
Sample ID: CCV  
µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	10.6	10.6	0.0181	0.0183	0.0275	0.0118	0.0209	11:55:50	Yes

TI



2	10.0	10.0	0.0171	0.0173	0.0297	0.0137	0.0185	11:58:42	Yes
Mean:	10.3	10.3	0.0176						
SD :	0.41	0.41	0.0007						
%RSD:	3.99	3.99	3.90						

QC value within specified limits. ✓

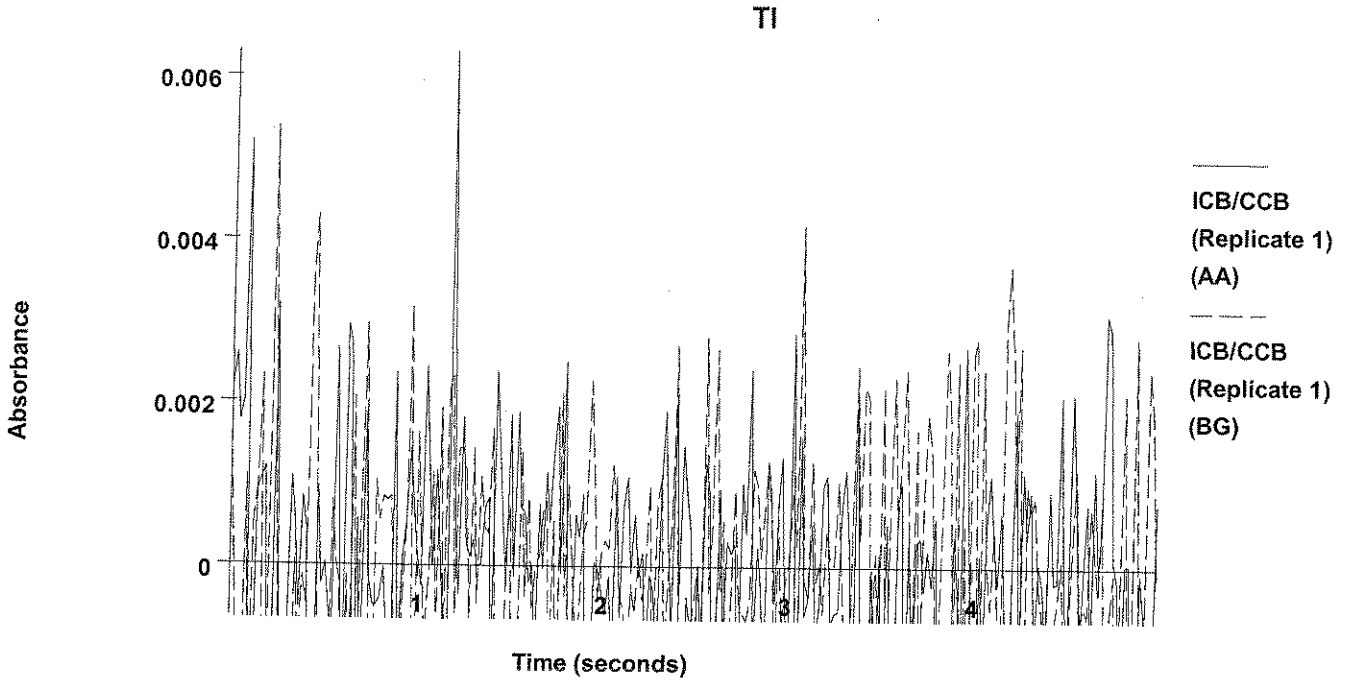
=====  
 Element: Tl Seq. No.: 122 AS Loc.: 148 Date: 06/26/2006

Sample ID: ICB/CCB

µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0001	0.0001	0.0063	0.0002	0.0054	12:01:33	Yes





2	0.4	0.4	0.0010	0.0012	0.0037	0.0014	0.0044	12:04:22	Yes
Mean:	0.1	0.1	0.0005						
SD :	0.44	0.44	0.0007						
%RSD:	845.1	845.1	163.04						

QC value within specified limits. ✓

=====  
 Element: Tl    Seq. No.: 123    AS Loc.: 74    Date: 06/27/2006  
 Sample ID: bf62403-sd1 x5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 74  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	0.0003	0.0005	0.0037	0.0024	0.0038	12:07:12	Yes

```

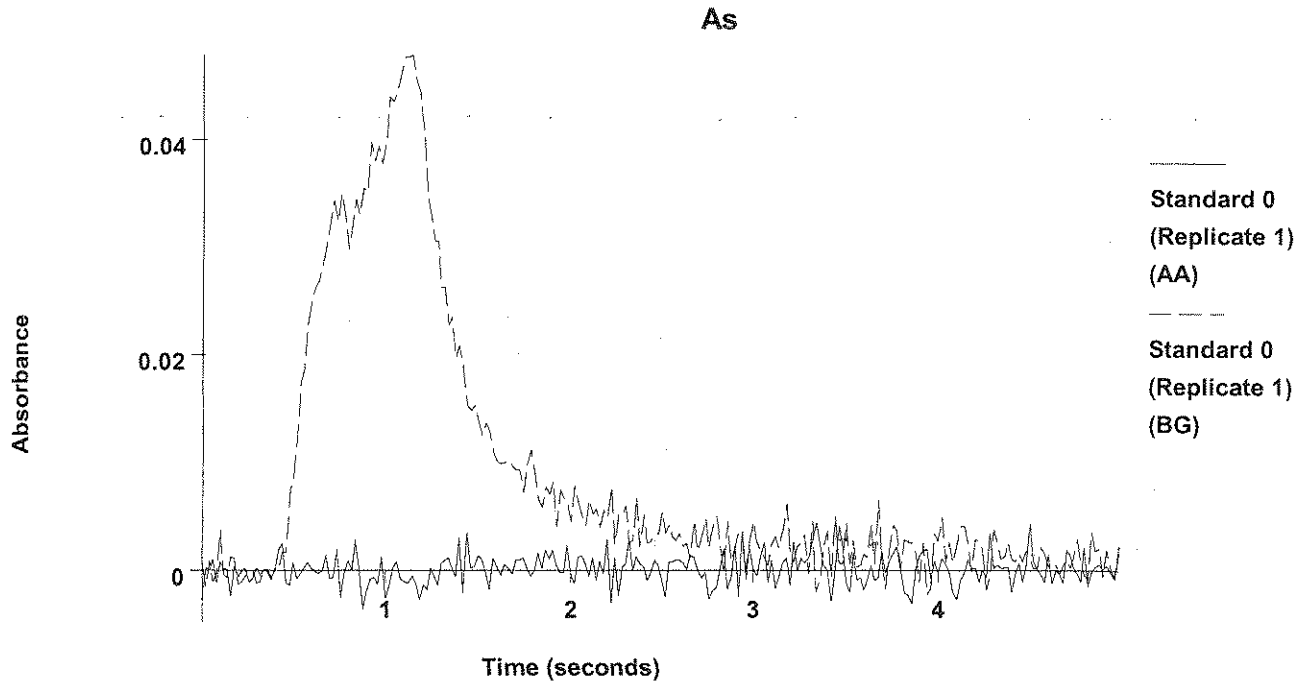
=====
Method Name: As 5
Method Description: As
Element: As

Date: 06/27/2006
Technique:Furnace
Calibration Type:
As, Calc. Intercept : Linear
Wavelength: 193.7 nm
Energy: 100
Slit Width: 0.7
Lamp Current: 350mA
Sample Info Name: 062606YA.SIF           Results Data Set Name: 062606yad
    
```

```

=====
Element: As      Seq. No.: 130      AS Loc.: 148      Date: 06/27/2006
Sample ID: Standard 0
µL dispensed: 10 from 148, 5 from 147, 15 from 148
    
```

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0006	0.0006	0.0044	0.0431	0.0479	12:48:55	Yes



2			0.0020	0.0020	0.0031	0.0451	0.0523	12:51:44	Yes
Mean:			0.0013						
SD :			0.0010						
%RSD:			76.94						

Auto-zero performed.

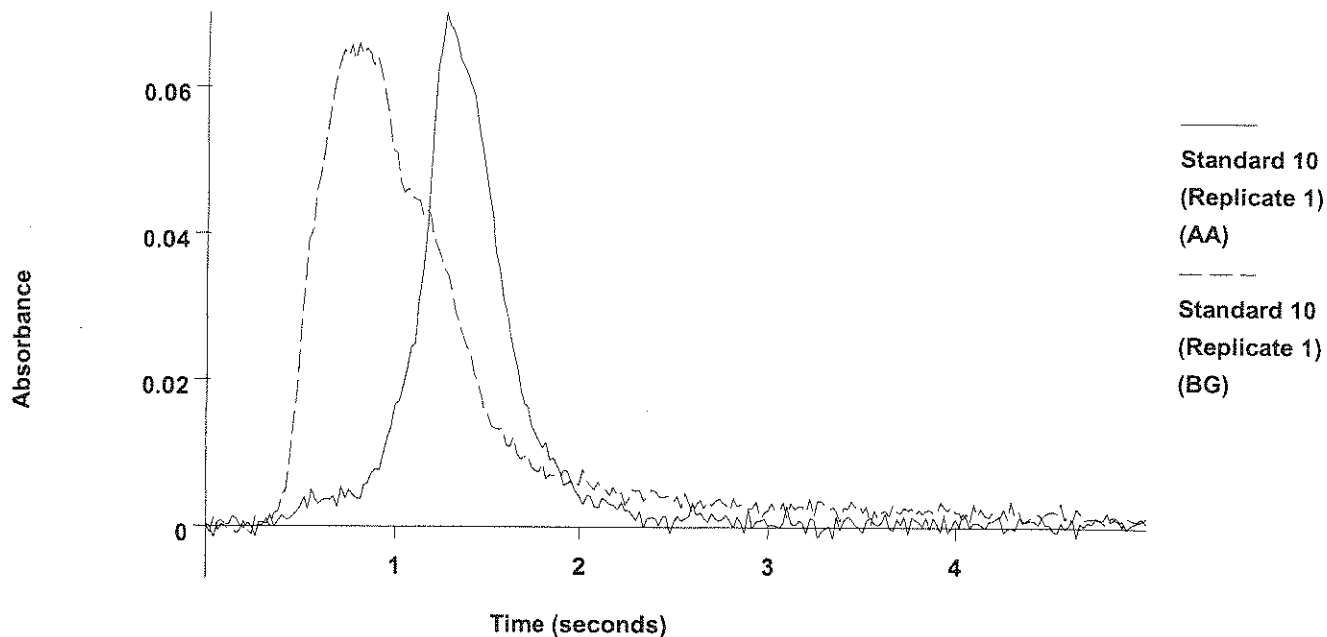
```

=====
Element: As      Seq. No.: 131      AS Loc.: 121      Date: 06/27/2006
Sample ID: Standard 5
µL dispensed: 10 from 148, 5 from 147, 15 from 121
    
```

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0173	0.0186	0.0341	0.0546	0.0651	12:54:59	Yes



As

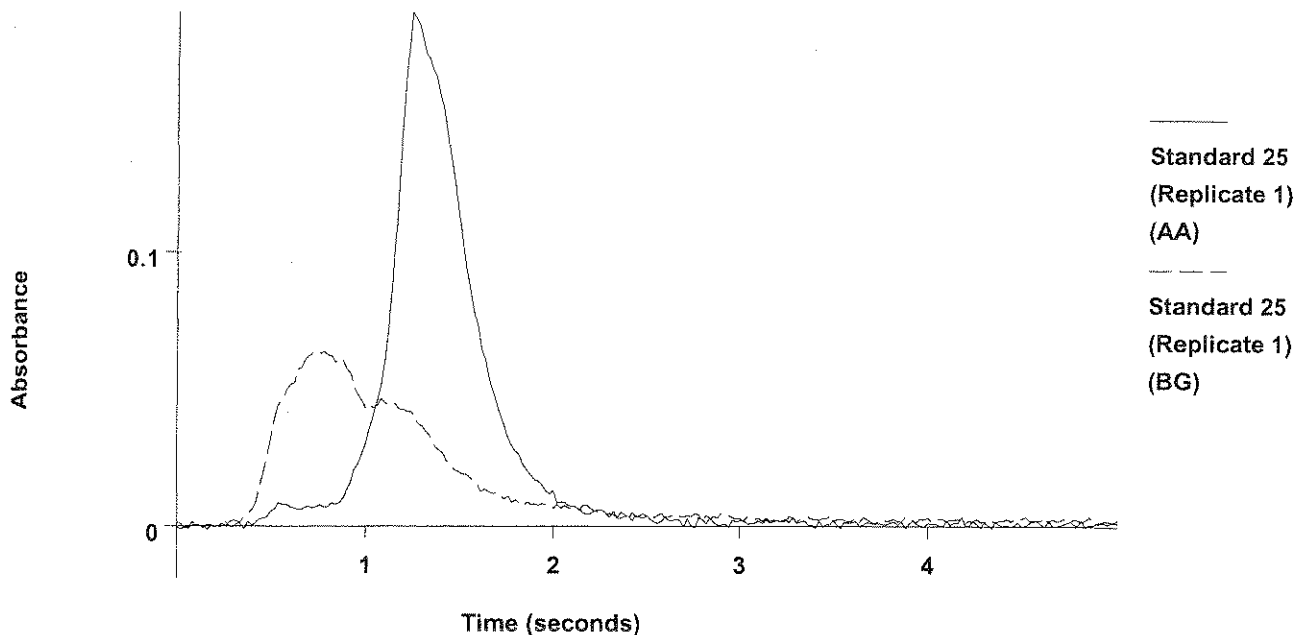


2 0.0370 0.0383 0.0769 0.0519 0.0492 01:03:58 Yes  
 Mean: 0.0373  
 SD : 0.0004  
 %RSD: 1.09  
 [As] Standard number 2 applied. [10.0]  
 Correlation Coefficient: 0.99886 Slope: 0.00373  
 Intercept : -0.00051

=====  
 Element: As Seq. No.: 133 AS Loc.: 126 Date: 06/27/2006  
 Sample ID: Standard 25  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0949	0.0962	0.1877	0.0625	0.0636	01:07:16	Yes

As

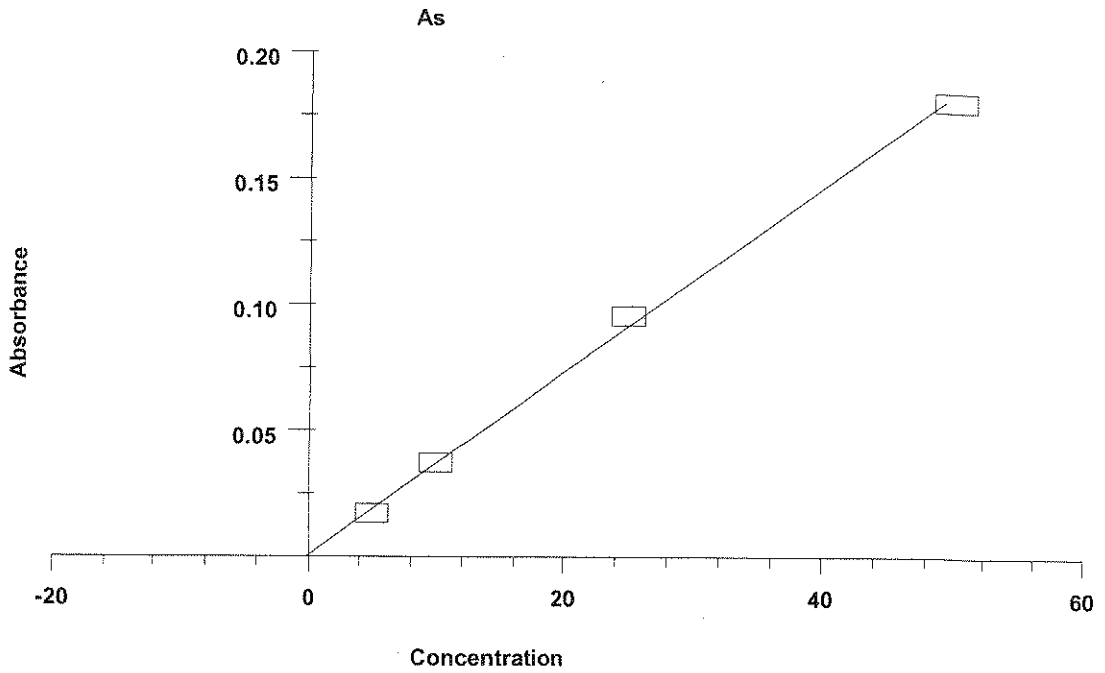


2 0.0962 0.0974 0.1898 0.0627 0.0645 01:10:08 Yes  
 Mean: 0.0955  
 SD : 0.0009  
 %RSD: 0.92  
 [As] Standard number 3 applied. [25.0]  
 Correlation Coefficient: 0.99976 Slope: 0.00385  
 Intercept : -0.00102

=====  
 Element: As Seq. No.: 134 AS Loc.: 129 Date: 06/27/2006  
 Sample ID: Standard 50  
 µL dispensed: 10 from 148, 5 from 147, 15 from 129

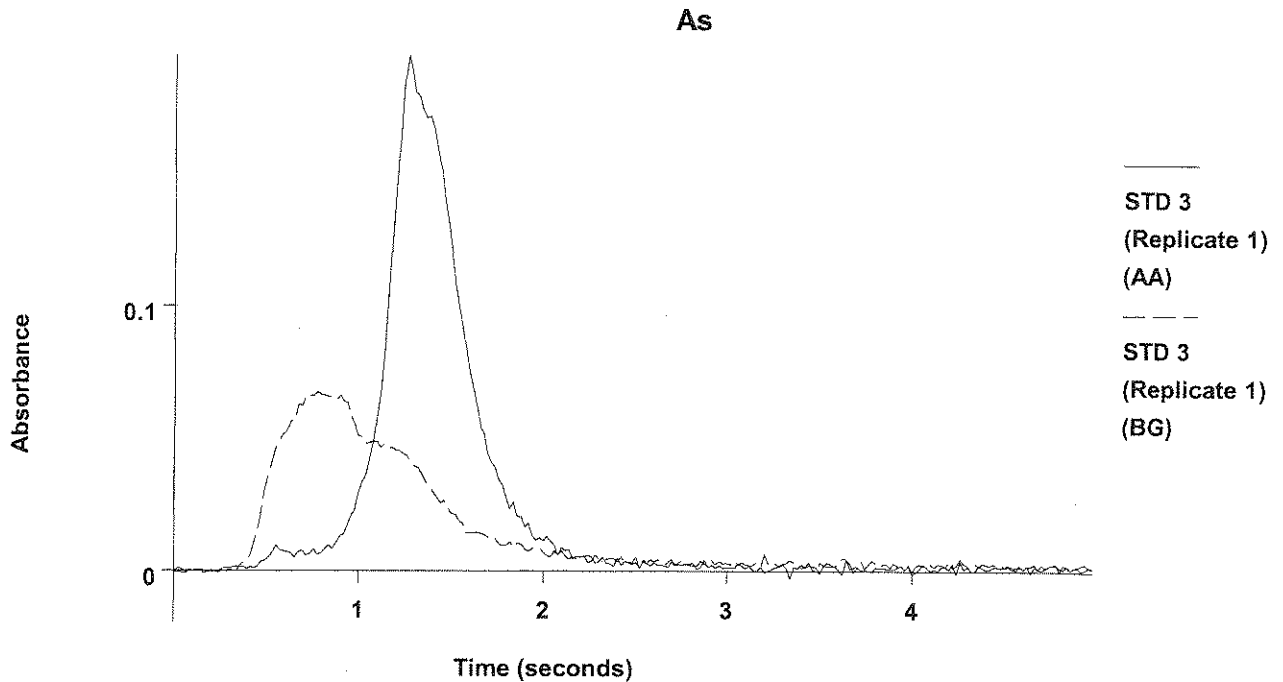
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.1800	0.1813	0.3766	0.0555	0.0519	01:13:26	Yes





=====  
 Element: As    Seq. No.: 135    AS Loc.: 126    Date: 06/27/2006  
 Sample ID: STD 3  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.5	26.5	0.0968	0.0980	0.1945	0.0655	0.0673	01:19:13	Yes



2	25.2	25.2	0.0921	0.1294	0.1974	0.0523	0.0505	01:22:06	Yes
---	------	------	--------	--------	--------	--------	--------	----------	-----

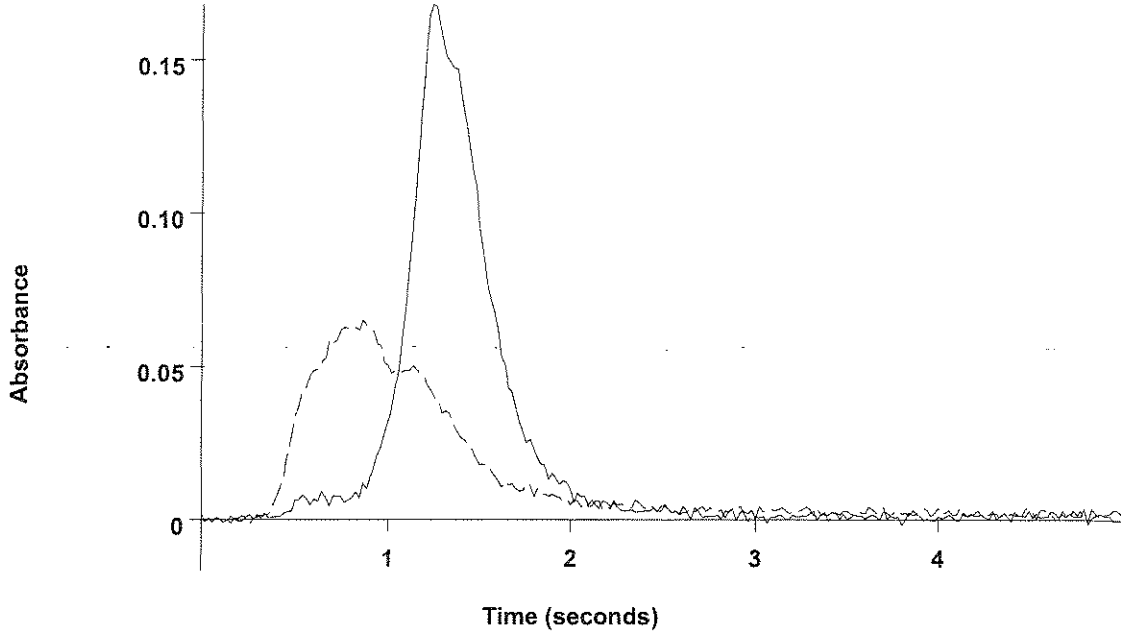
Mean: 25.8 25.8 0.0944  
 SD : 0.91 0.91 0.0033  
 %RSD: 3.51 3.51 3.48  
 QC value within specified limits.



=====  
 Element: As Seq. No.: 136 AS Loc.: 134 Date: 06/27/2006  
 Sample ID: ICV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 134  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.6	23.6	0.0865	0.0877	0.1680	0.0625	0.0652	01:24:57	Yes

As



-----  
 ICV  
 (Replicate 1)  
 (AA)  
 -----  
 ICV  
 (Replicate 1)  
 (BG)

2 23.4 23.4 0.0858 0.0871 0.1862 0.0519 0.0488 01:27:46 Yes  
 Mean: 23.5 23.5 0.0861  
 SD : 0.13 0.13 0.0005  
 %RSD: 0.54 0.54 0.53  
 QC value within specified limits.

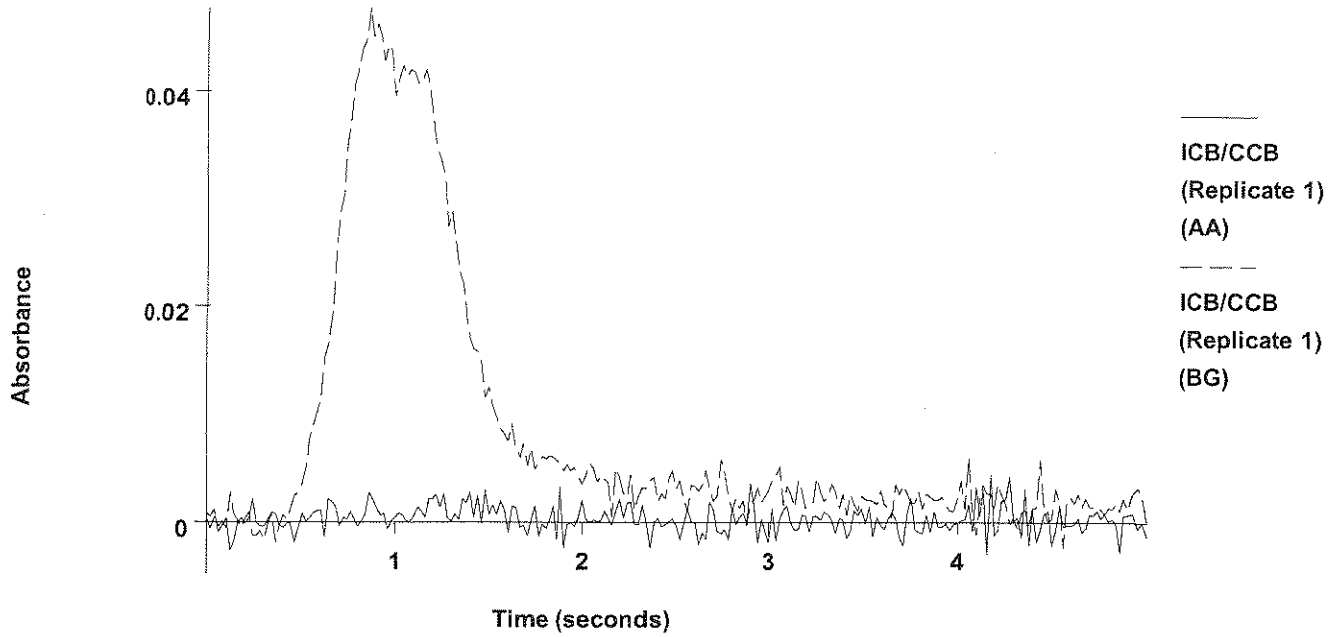


=====  
 Element: As Seq. No.: 137 AS Loc.: 148 Date: 06/27/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	0.0003	0.0015	0.0044	0.0408	0.0477	01:30:35	Yes



As



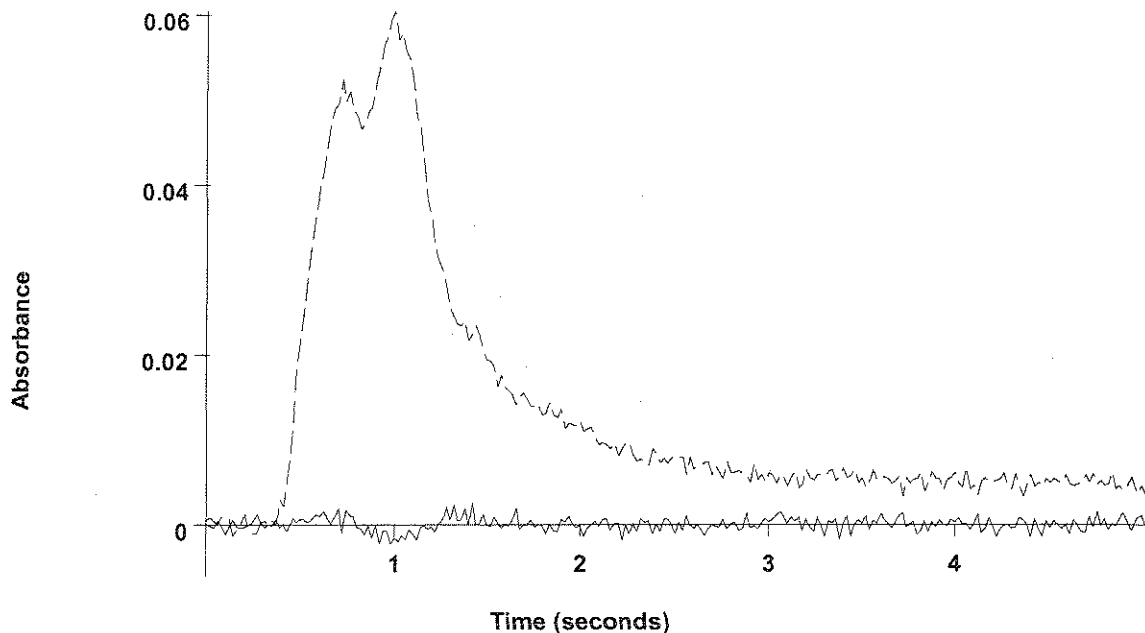
2	-0.3	-0.3	-0.0004	0.0008	0.0033	0.0421	0.0476	01:33:25	Yes
Mean:	-0.2	-0.2	-0.0001						
SD :	0.14	0.14	0.0005						
%RSD:	62.3	62.3	538.00						

QC value within specified limits. ✓

=====  
 Element: As    Seq. No.: 138    AS Loc.: 2    Date: 06/27/2006  
 Sample ID: bf62206-blk1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 2  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0004	0.0009	0.0051	0.0442	0.0513	01:36:15	Yes

As



bf62301-sd2 x5  
(Replicate 1)  
(AA)

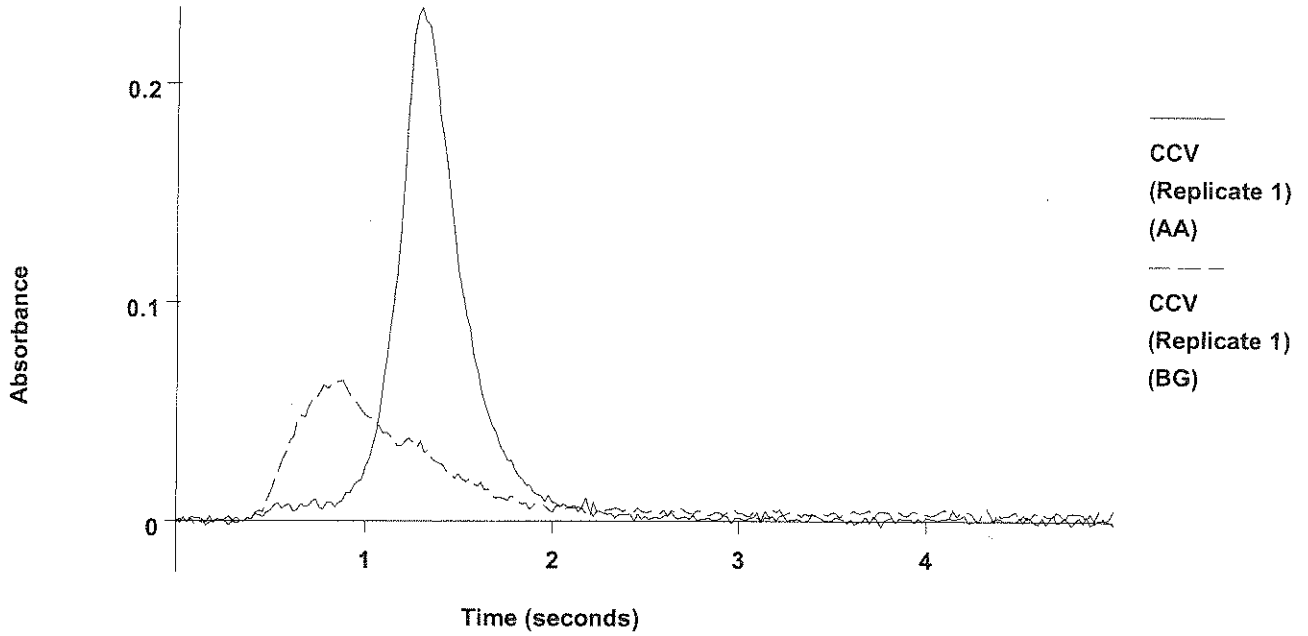
bf62301-sd2 x5  
(Replicate 1)  
(BG)

2	-0.5	-0.5	-0.0012	0.0000	0.0020	0.0703	0.0648	07:44:39	Yes
Mean:	-0.5	-0.5	-0.0012						
SD :	0.02	0.02	0.0001						
%RSD:	4.61	4.61	7.38						

=====  
 Element: As    Seq. No.: 203    AS Loc.: 126    Date: 06/27/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.0	27.0	0.0988	0.1001	0.2347	0.0590	0.0640	07:47:30	Yes

As



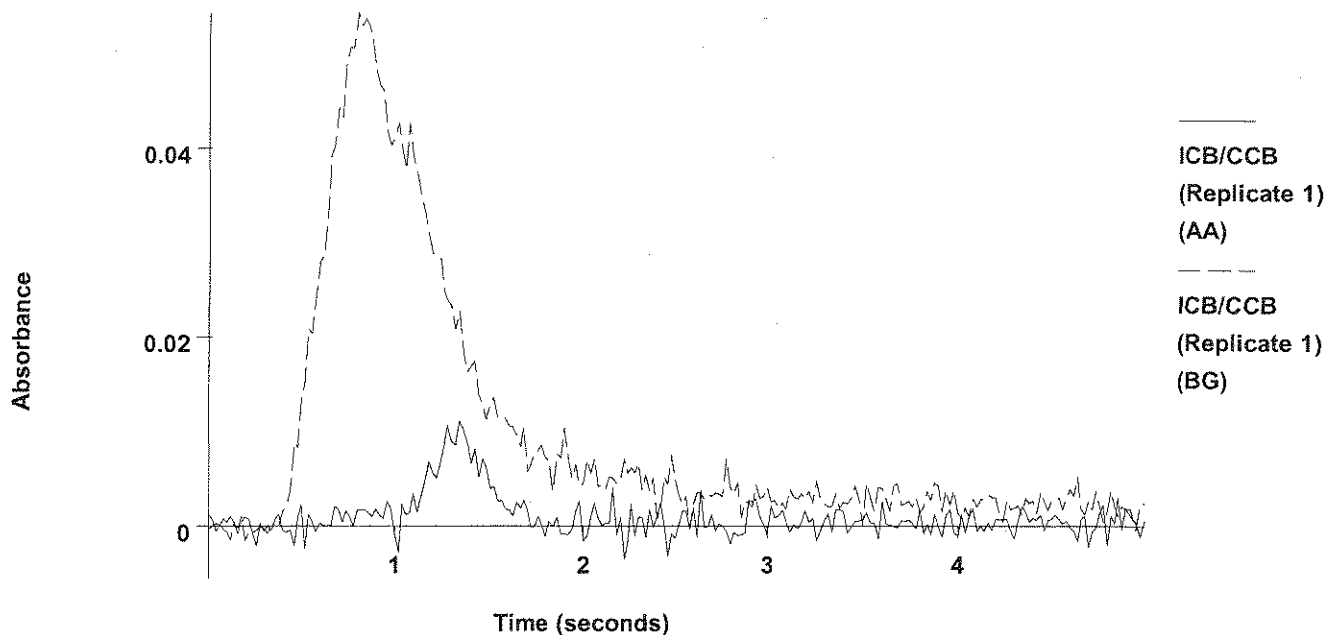
2	26.2	26.2	0.0958	0.0971	0.2314	0.0558	0.0593	07:50:22	Yes
Mean:	26.6	26.6	0.0973						
SD :	0.57	0.57	0.0021						
%RSD:	2.15	2.15	2.13						

QC value within specified limits. ✓

=====  
 Element: As    Seq. No.: 204    AS Loc.: 148    Date: 06/27/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.8	0.8	0.0036	0.0049	0.0111	0.0474	0.0544	07:53:13	Yes

As



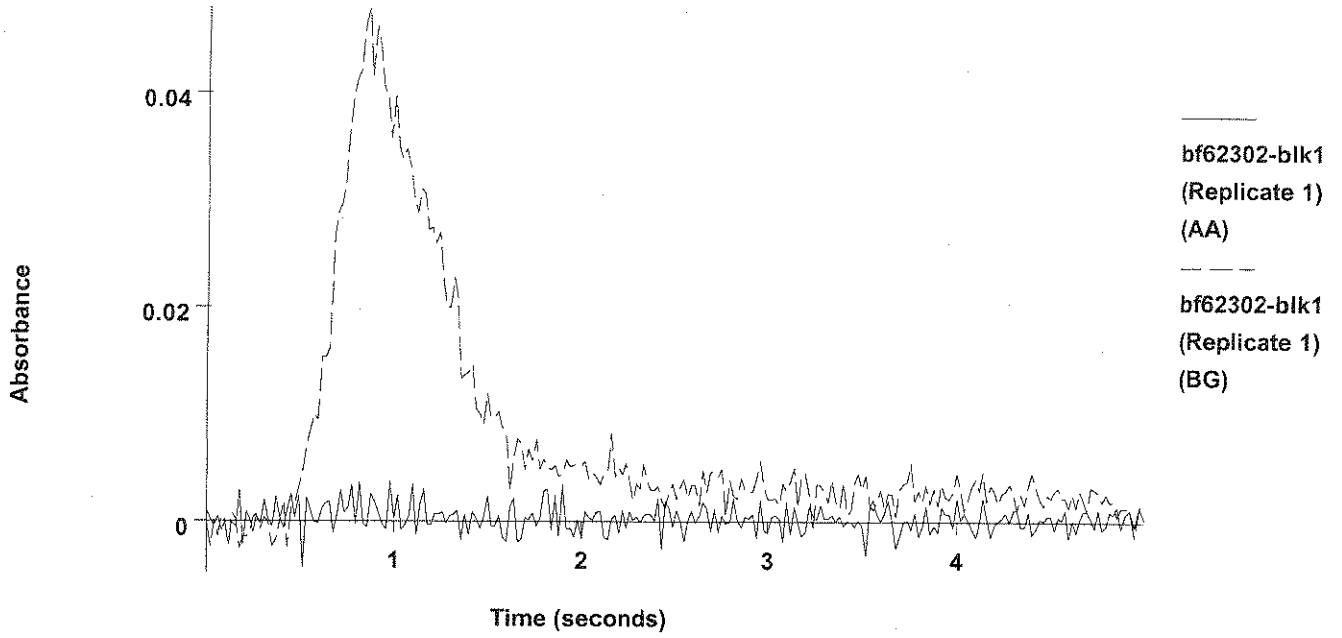
2	-0.2	-0.2	0.0001	0.0013	0.0046	0.0438	0.0494	07:56:03	Yes
Mean:	0.3	0.3	0.0019						
SD :	0.70	0.70	0.0025						
%RSD:	222	222	137.10						

QC value within specified limits. ✓

=====  
 Element: As    Seq. No.: 205    AS Loc.: 54    Date: 06/27/2006  
 Sample ID: bf62302-blk1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 54  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	0.0002	0.0015	0.0037	0.0378	0.0480	07:58:51	Yes

As

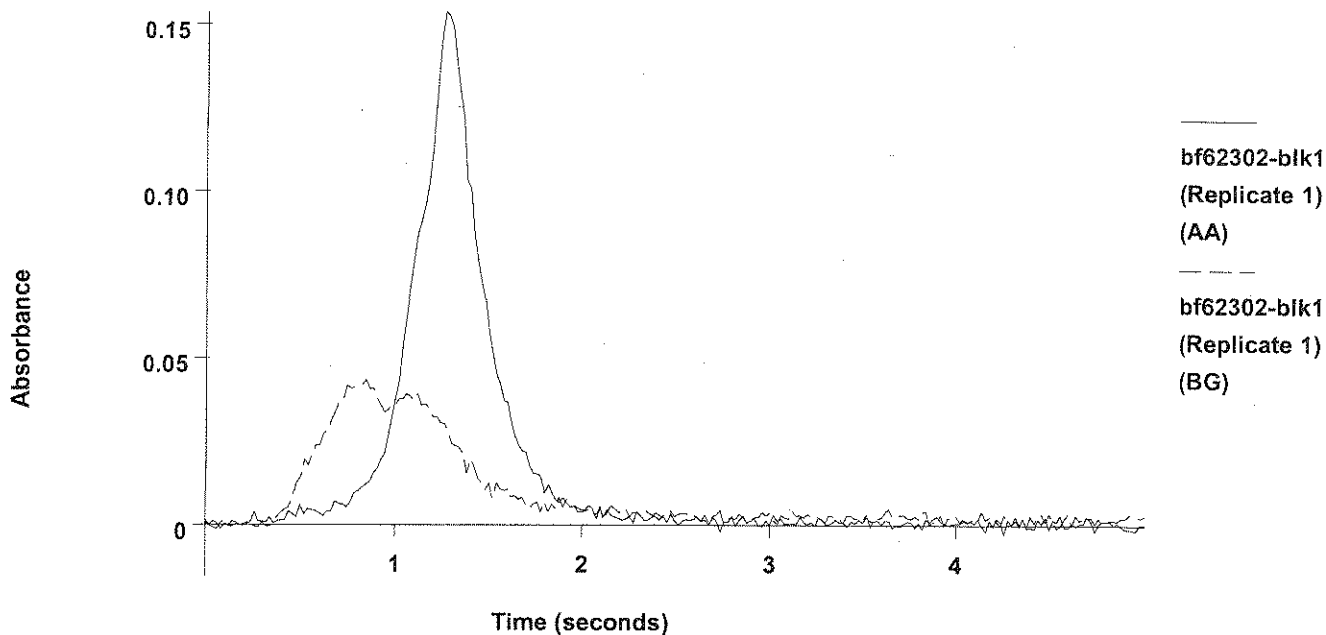


2	0.0	0.0	0.0006	0.0019	0.0047	0.0417	0.0478	08:01:39	Yes
Mean:	-0.1	-0.1	0.0004						
SD :	0.07	0.07	0.0003						
%RSD:	87.4	87.4	62.20						

=====  
 Element: As    Seq. No.: 206    AS Loc.: 54    Date: 06/27/2006  
 Sample ID: bf62302-blk1  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 54  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	18.5	18.5	0.0679	0.0691	0.1538	0.0421	0.0434	08:04:37	Yes

As



2	18.6	18.6	0.0682	0.0695	0.1317	0.0426	0.0428	08:07:34	Yes
Mean:	18.6	18.6	0.0681						
SD :	0.07	0.07	0.0003						
%RSD:	0.40	0.40	0.40						

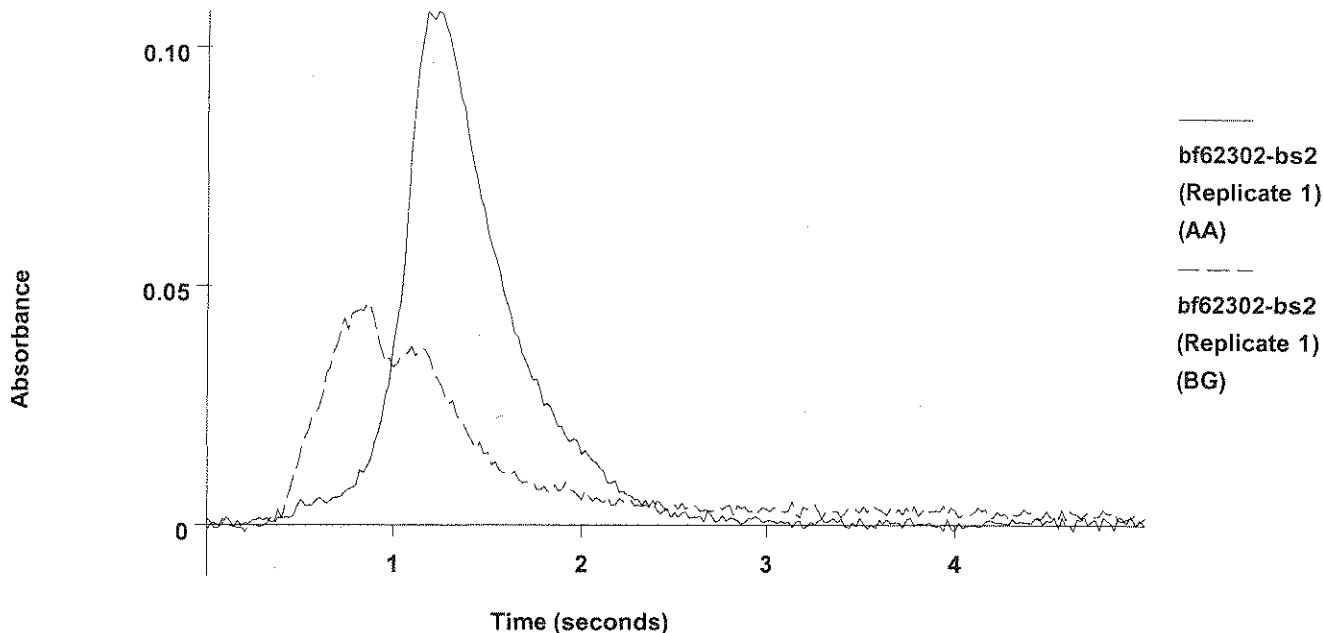
Recovery for As = 92.8 % within 85 % to 115 %



=====  
 Element: As    Seq. No.: 207    AS Loc.: 55    Date: 06/27/2006  
 Sample ID: bf62302-bs2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 55  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	18.7	18.7	0.0684	0.0697	0.1075	0.0463	0.0464	08:10:24	Yes

As



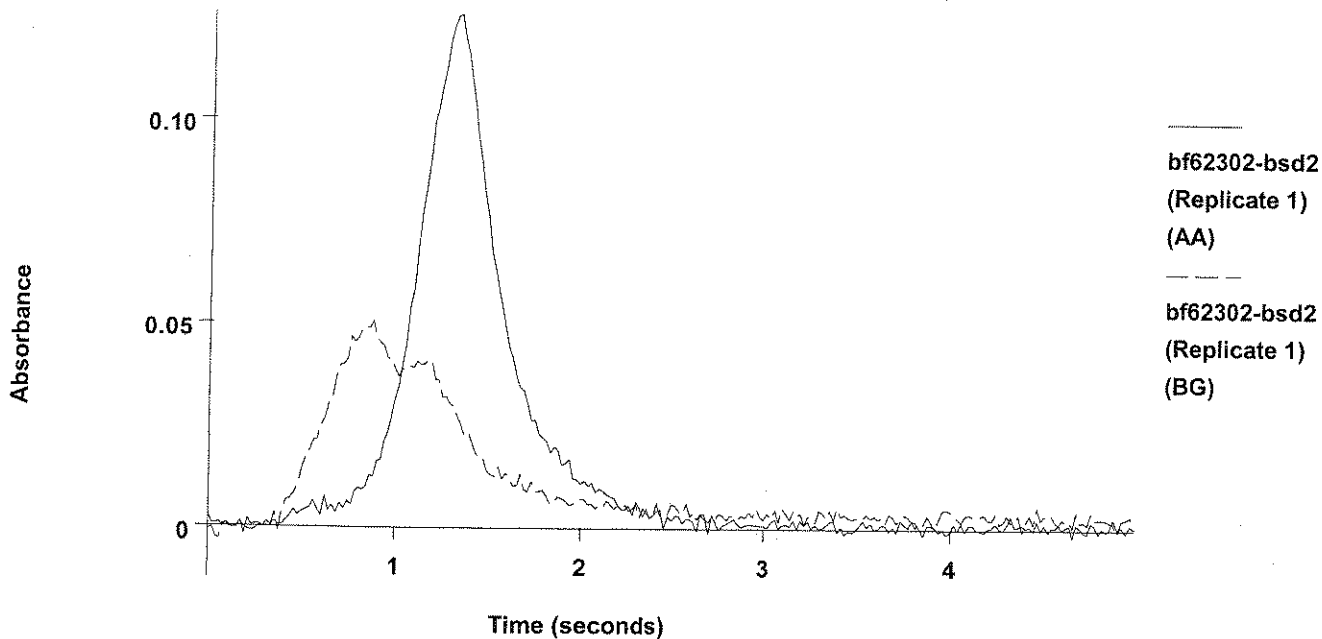
2	18.6	18.6	0.0681	0.0694	0.1534	0.0465	0.0479	08:13:14	Yes
Mean:	18.6	18.6	0.0682						
SD :	0.06	0.06	0.0002						
%RSD:	0.35	0.35	0.34						

932

=====  
 Element: As    Seq. No.: 208    AS Loc.: 56    Date: 06/27/2006  
 Sample ID: bf62302-bsd2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 56  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.2	19.2	0.0703	0.0716	0.1259	0.0498	0.0507	08:16:03	Yes

As



2	19.3	19.3	0.0707	0.0720	0.1599	0.0469	0.0451	08:18:52	Yes
Mean:	19.2	19.2	0.0705						
SD :	0.08	0.08	0.0003						
%RSD:	0.44	0.44	0.43						

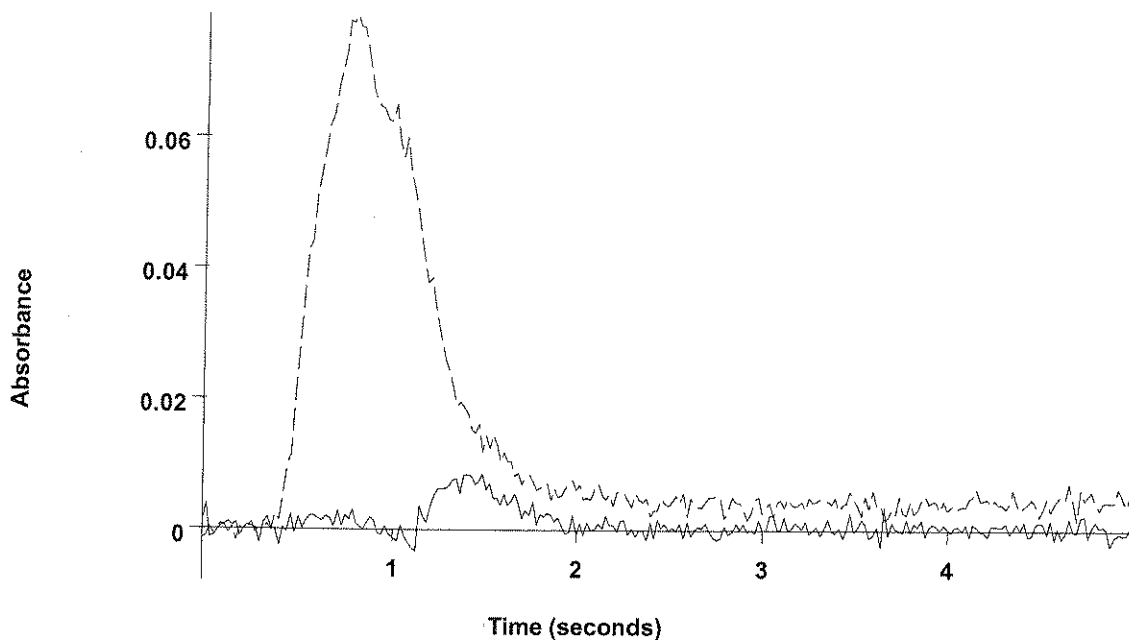
965

=====  
 Element: As    Seq. No.: 209    AS Loc.: 57    Date: 06/27/2006  
 Sample ID: 0606372-01 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 57  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.9	0.9	0.0039	0.0052	0.0086	0.0668	0.0787	08:21:40	Yes



As



0606372-01 dis  
(Replicate 1)  
(AA)

0606372-01 dis  
(Replicate 1)  
(BG)

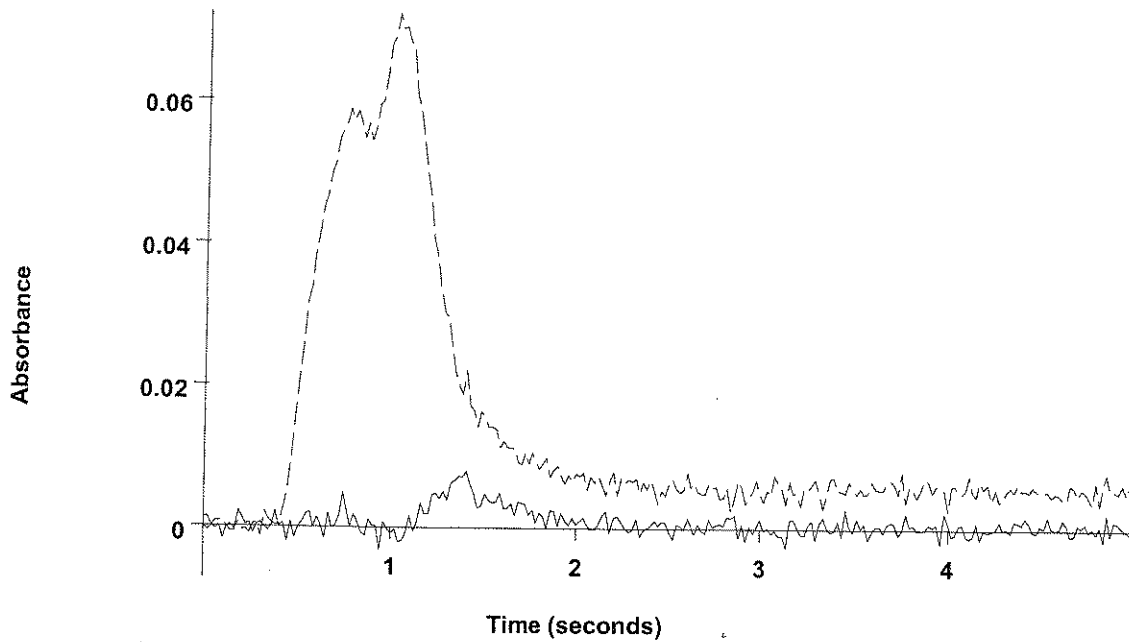
2	0.5	0.5	0.0024	0.0037	0.0081	0.0669	0.0796	08:24:29	Yes
Mean:	0.7	0.7	0.0032						
SD :	0.30	0.30	0.0011						
%RSD:	43.5	43.5	33.87						

*Handwritten signature*

=====  
 Element: As    Seq. No.: 210    AS Loc.: 58    Date: 06/27/2006  
 Sample ID: 0606372-02 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 58  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	0.0028	0.0041	0.0080	0.0686	0.0722	08:27:18	Yes

As



0606372-02 dis  
(Replicate 1)  
(AA)

0606372-02 dis  
(Replicate 1)  
(BG)

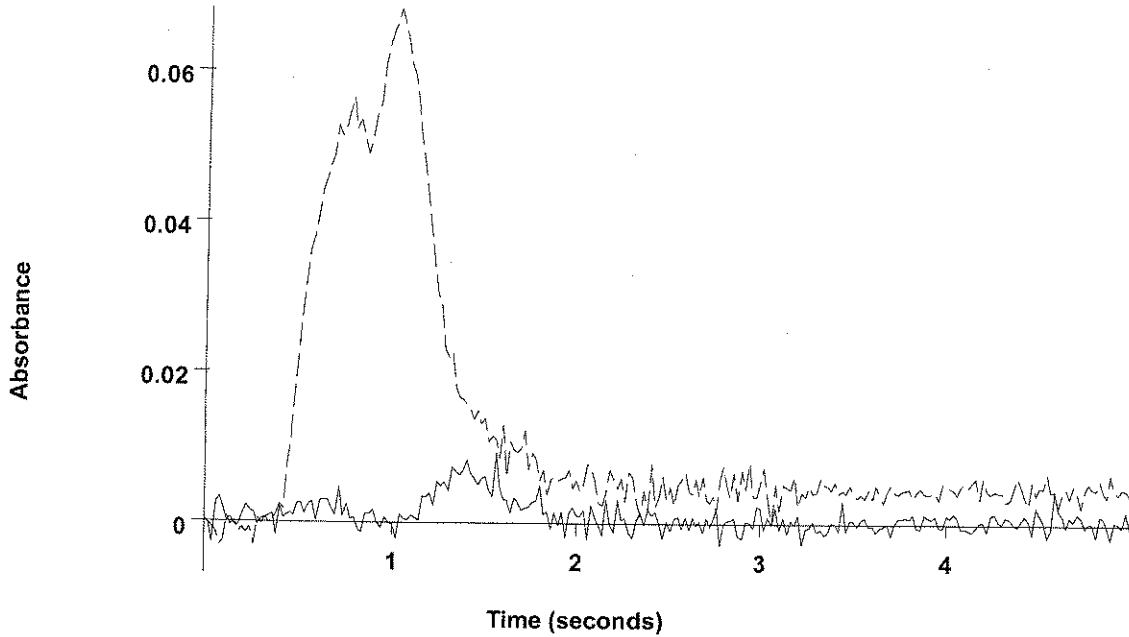
2	0.3	0.3	0.0019	0.0032	0.0078	0.0656	0.0714	08:30:09	Yes
Mean:	0.5	0.5	0.0024						
SD :	0.16	0.16	0.0006						
%RSD:	36.2	36.2	25.34						

*PA*

=====  
 Element: As    Seq. No.: 211    AS Loc.: 59    Date: 06/27/2006  
 Sample ID: 0606372-03 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 59  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.8	0.8	0.0037	0.0049	0.0095	0.0607	0.0683	08:32:59	Yes

As



0606372-03 dis  
(Replicate 1)  
(AA)

0606372-03 dis  
(Replicate 1)  
(BG)

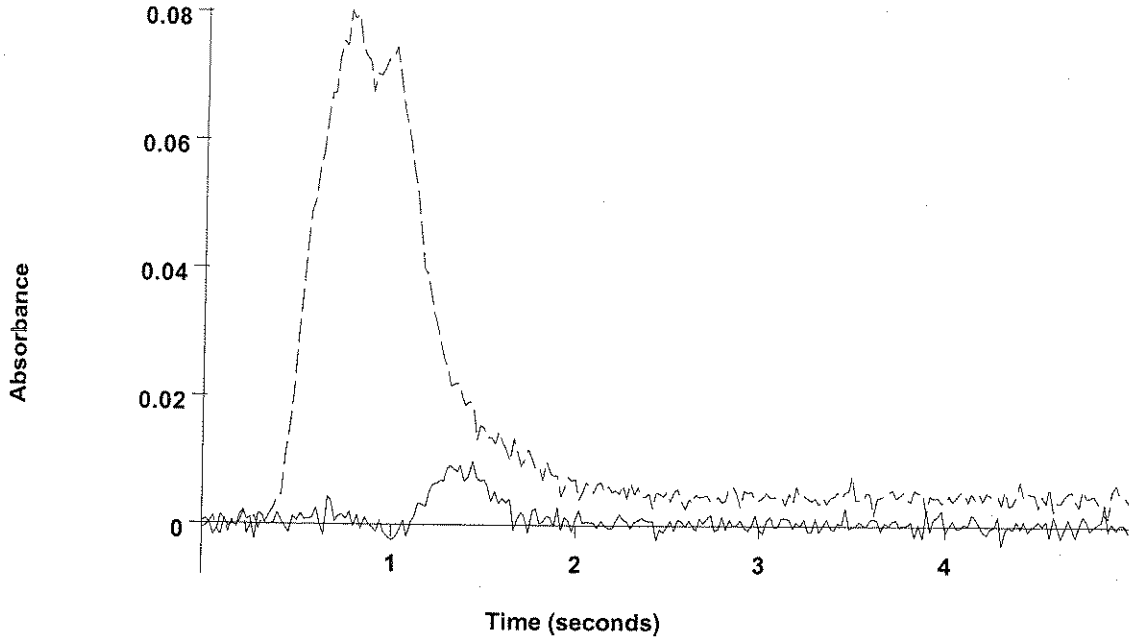
2	0.8	0.8	0.0037	0.0049	0.0102	0.0618	0.0642	08:35:49	Yes
Mean:	0.8	0.8	0.0037						
SD :	0.00	0.00	0.0000						
%RSD:	0.07	0.07	0.06						

*Handwritten signature or initials*

=====  
 Element: As    Seq. No.: 212    AS Loc.: 60    Date: 06/27/2006  
 Sample ID: 0606372-01  
 µL dispensed: 10 from 148, 5 from 147, 15 from 60  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.7	0.7	0.0034	0.0046	0.0099	0.0713	0.0803	08:38:39	Yes

As



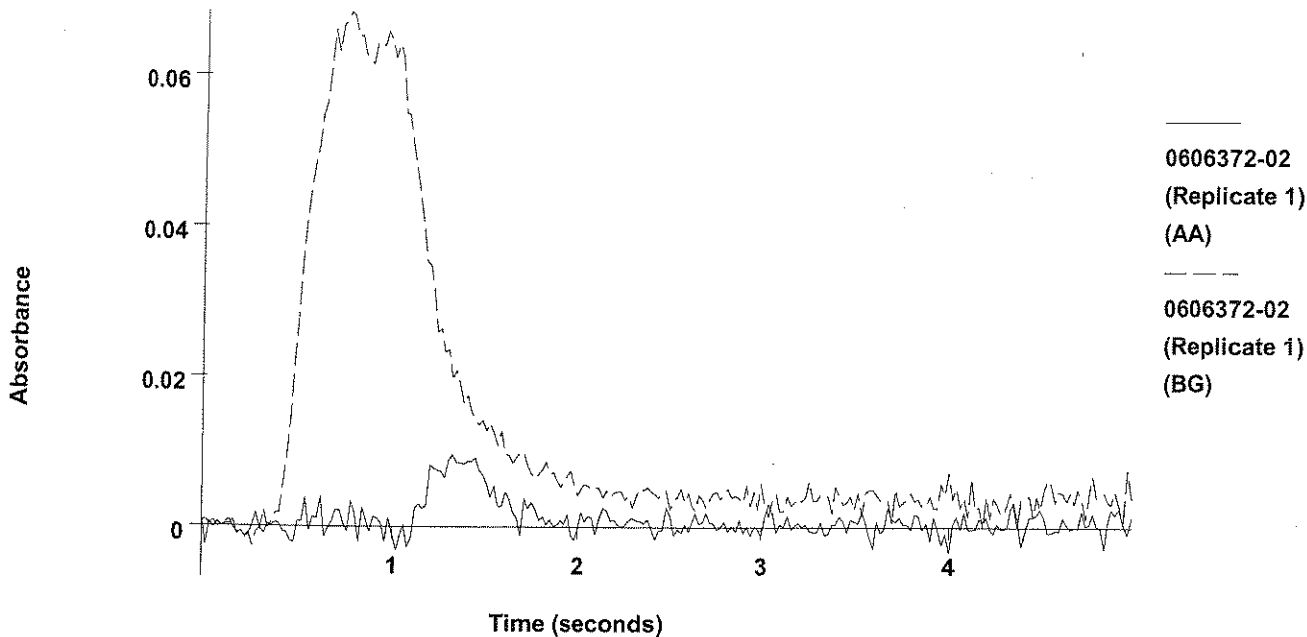
2	0.8	0.8	0.0035	0.0048	0.0112	0.0664	0.0704	08:41:29	Yes
Mean:	0.8	0.8	0.0035						
SD :	0.04	0.04	0.0001						
%RSD:	5.08	5.08	4.04						

*PD*

=====  
 Element: As    Seq. No.: 213    AS Loc.: 61    Date: 06/27/2006  
 Sample ID: 0606372-02  
 µL dispensed: 10 from 148, 5 from 147, 15 from 61  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.8	0.8	0.0037	0.0049	0.0096	0.0630	0.0684	08:44:18	Yes

As

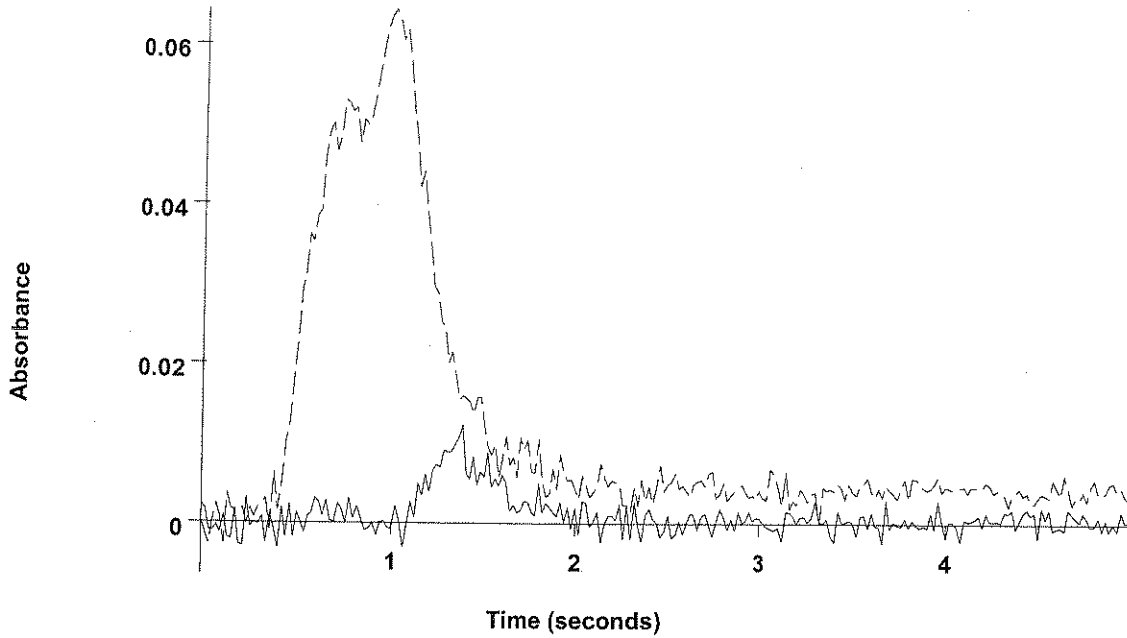


2	0.9	0.9	0.0040	0.0053	0.0128	0.0632	0.0690	08:47:08	Yes
Mean:	0.9	0.9	0.0039						
SD :	0.08	0.08	0.0003						
%RSD:	8.66	8.66	7.07						

=====  
 Element: As    Seq. No.: 214    AS Loc.: 62    Date: 06/27/2006  
 Sample ID: 0606372-03  
 µL dispensed: 10 from 148, 5 from 147, 15 from 62  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.9	0.9	0.0039	0.0052	0.0123	0.0584	0.0644	08:49:57	Yes

As



-----  
 0606372-03  
 (Replicate 1)  
 (AA)  
 -----  
 0606372-03  
 (Replicate 1)  
 (BG)

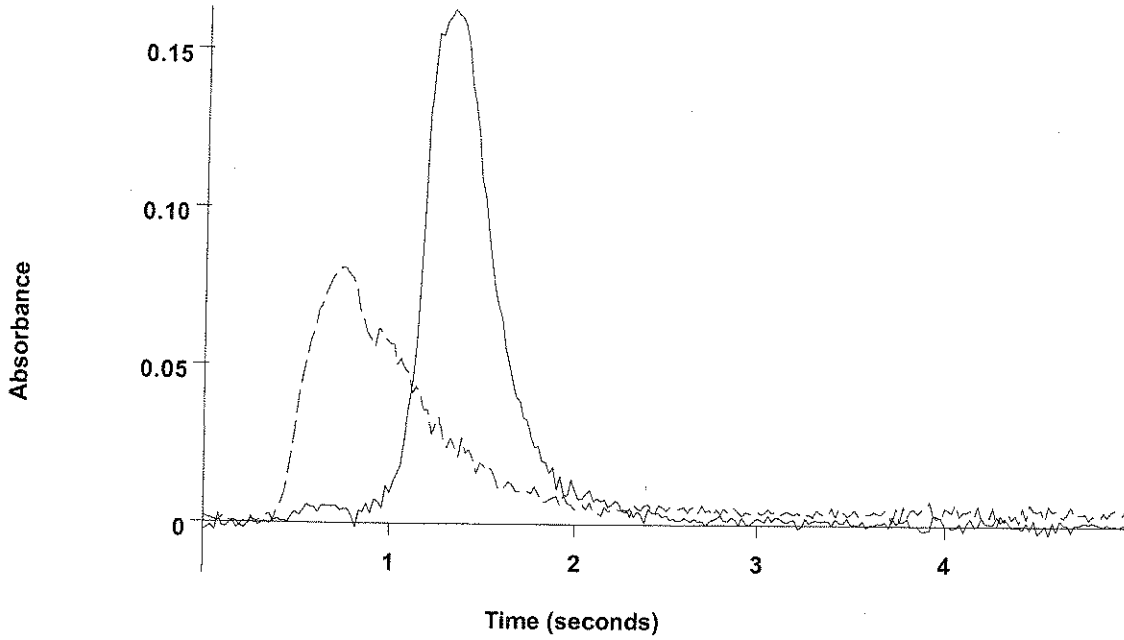
2	1.2	1.2	0.0052	0.0065	0.0112	0.0645	0.0785	08:52:47	Yes
Mean:	1.1	1.1	0.0046						
SD :	0.25	0.25	0.0009						
%RSD:	23.8	23.8	20.14						

*MS*

=====  
 Element: As    Seq. No.: 215    AS Loc.: 62    Date: 06/27/2006  
 Sample ID: 0606372-03  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 62  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	21.3	21.3	0.0782	0.0794	0.1629	0.0692	0.0809	08:55:47	Yes

As



0606372-03  
(Replicate 1)  
(AA)

0606372-03  
(Replicate 1)  
(BG)

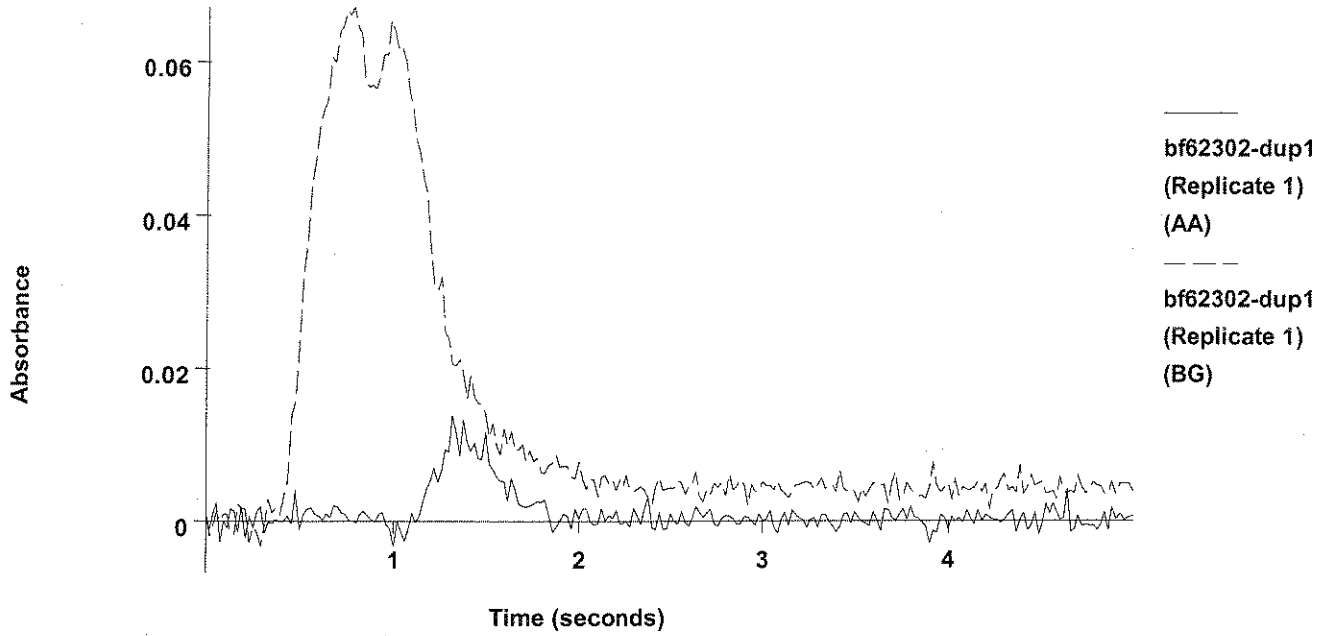
2	21.6	21.6	0.0789	0.0802	0.1566	0.0602	0.0626	08:58:47	Yes
Mean:	21.4	21.4	0.0786						
SD :	0.15	0.15	0.0006						
%RSD:	0.71	0.71	0.71						

Recovery for As = 107.2 % within 85 % to 115 %

=====  
 Element: As    Seq. No.: 216    AS Loc.: 63    Date: 06/27/2006  
 Sample ID: bf62302-dup1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 63  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.0	1.0	0.0042	0.0055	0.0139	0.0641	0.0672	09:01:36	Yes

As



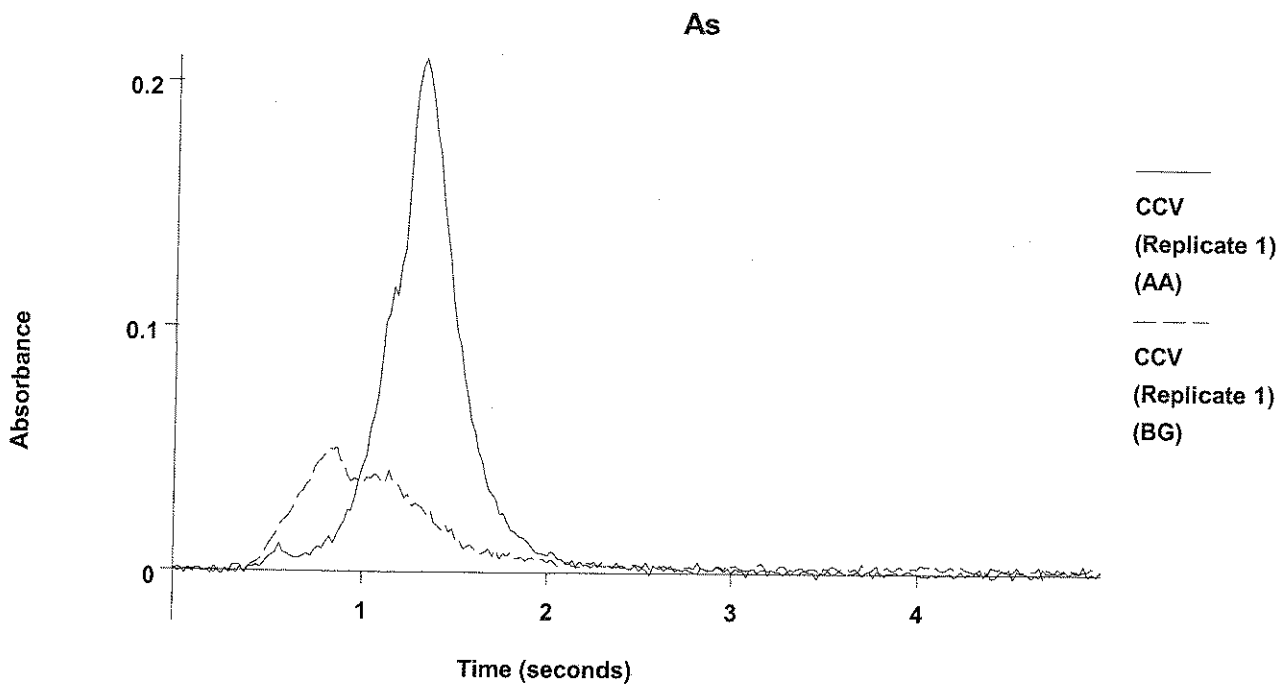
2	0.8	0.8	0.0035	0.0048	0.0098	0.0592	0.0665	09:04:26	Yes
Mean:	0.9	0.9	0.0038						
SD :	0.14	0.14	0.0005						
%RSD:	16.1	16.1	13.09						

*Handwritten mark*

=====  
 Element: As    Seq. No.: 217    AS Loc.: 126    Date: 06/27/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.5	25.5	0.0932	0.0945	0.2100	0.0435	0.0508	09:07:18	Yes





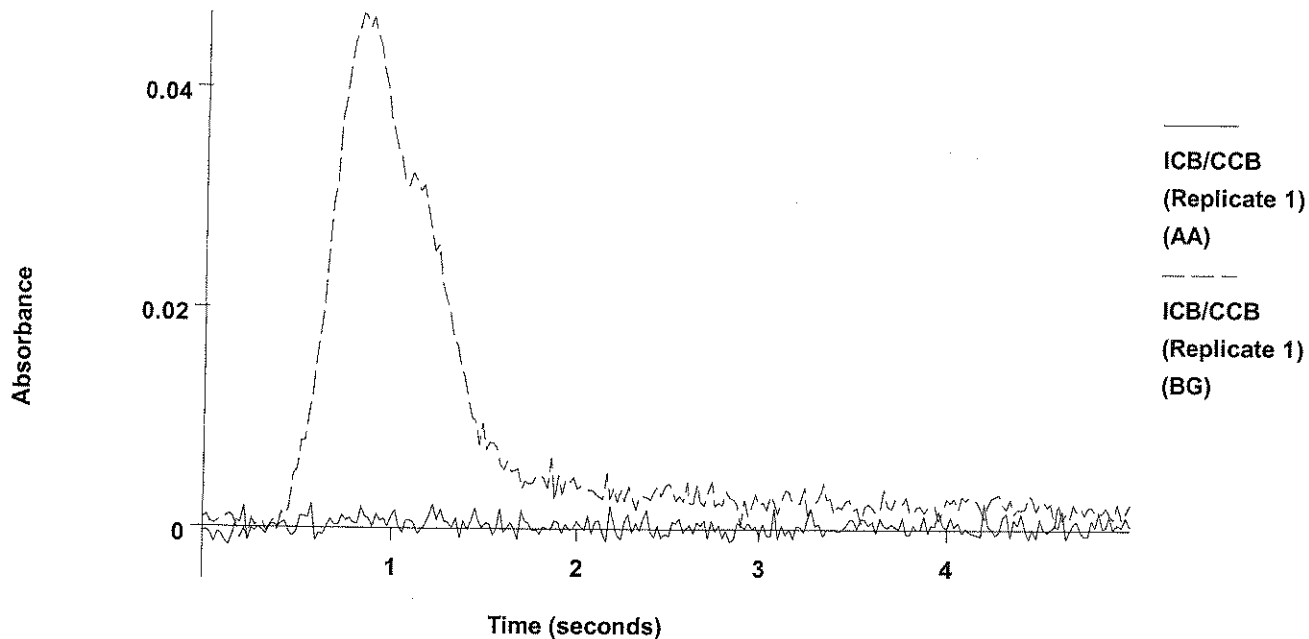
2	25.5	25.5	0.0934	0.0946	0.2121	0.0454	0.0454	09:10:11	Yes
Mean:	25.5	25.5	0.0933						
SD :	0.03	0.03	0.0001						
%RSD:	0.13	0.13	0.13						

QC value within specified limits.

=====  
 Element: As    Seq. No.: 218    AS Loc.: 148    Date: 06/27/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	0.0001	0.0013	0.0024	0.0374	0.0467	09:13:01	Yes

As



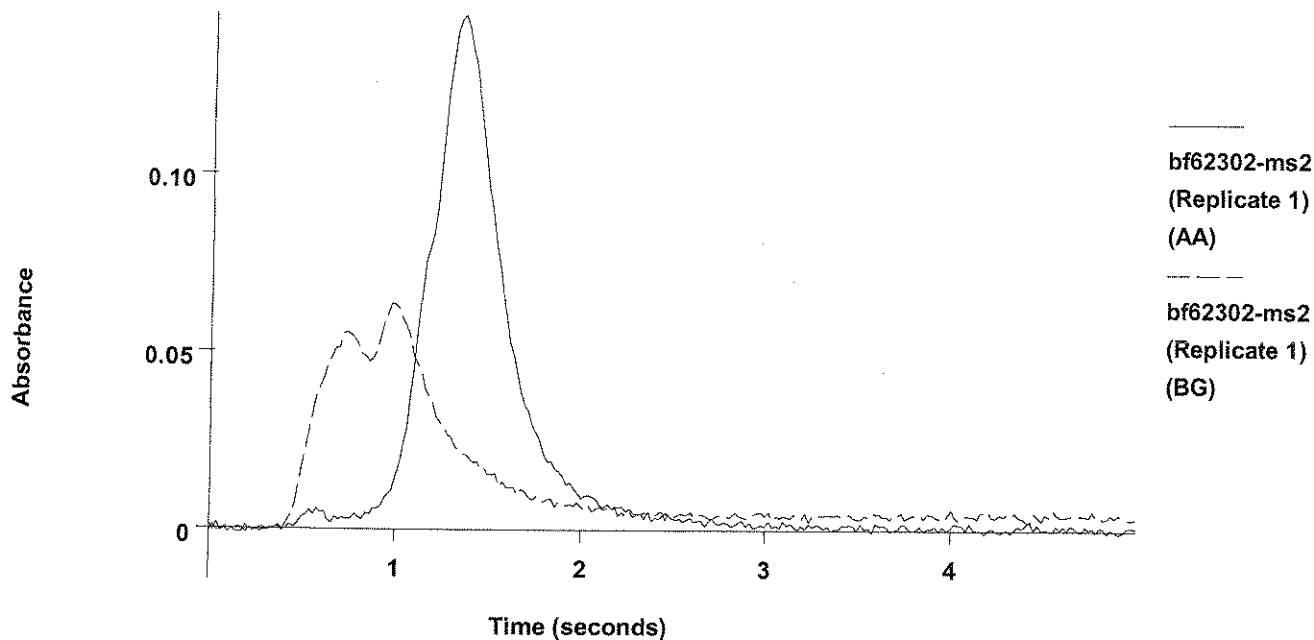
2	-0.3	-0.3	-0.0003	0.0010	0.0028	0.0345	0.0427	09:15:51	Yes
Mean:	-0.2	-0.2	-0.0001						
SD :	0.07	0.07	0.0003						
%RSD:	30.7	30.7	204.46						

QC value within specified limits.

=====  
 Element: As    Seq. No.: 219    AS Loc.: 64    Date: 06/27/2006  
 Sample ID: bf62302-ms2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 64  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.5	19.5	0.0716	0.0729	0.1449	0.0594	0.0638	09:18:40	Yes

As



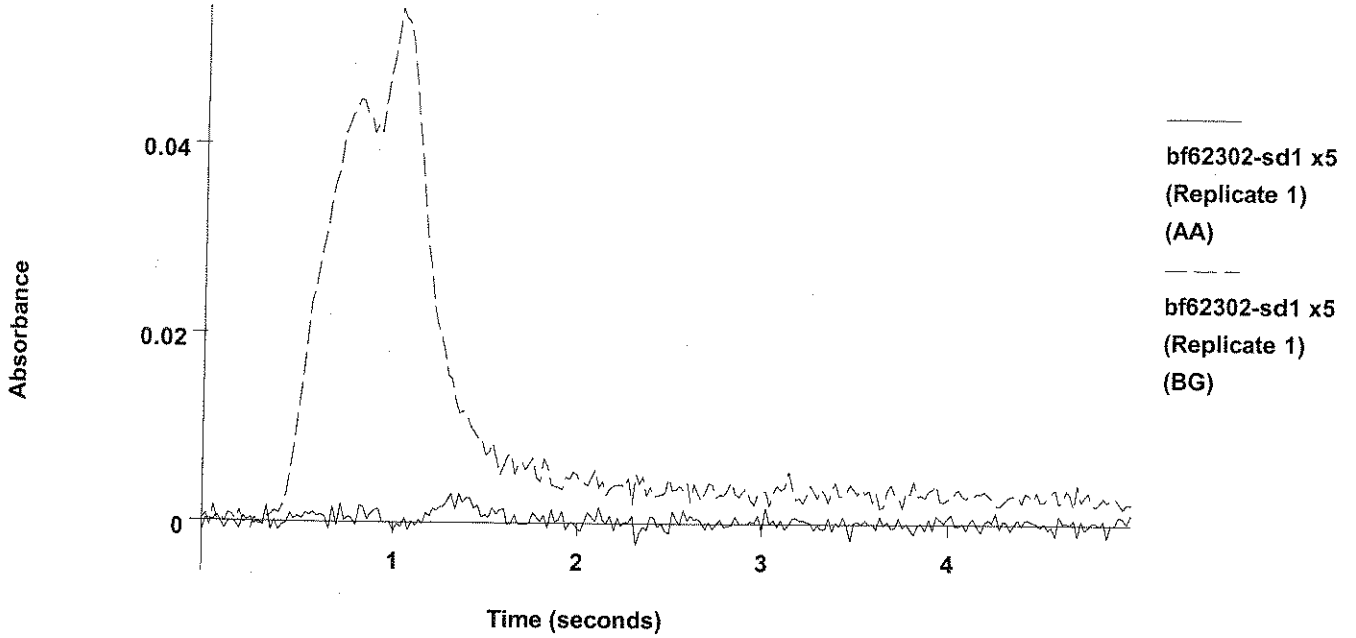
2	20.0	20.0	0.0732	0.0745	0.1366	0.0673	0.0799	09:21:30	Yes
Mean:	19.8	19.8	0.0724						
SD :	0.32	0.32	0.0012						
%RSD:	1.64	1.64	1.62						

995

=====  
 Element: As    Seq. No.: 220    AS Loc.: 65    Date: 06/27/2006  
 Sample ID: bf62302-sd1 x5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 65  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	0.0001	0.0013	0.0031	0.0449	0.0545	09:24:20	Yes

As

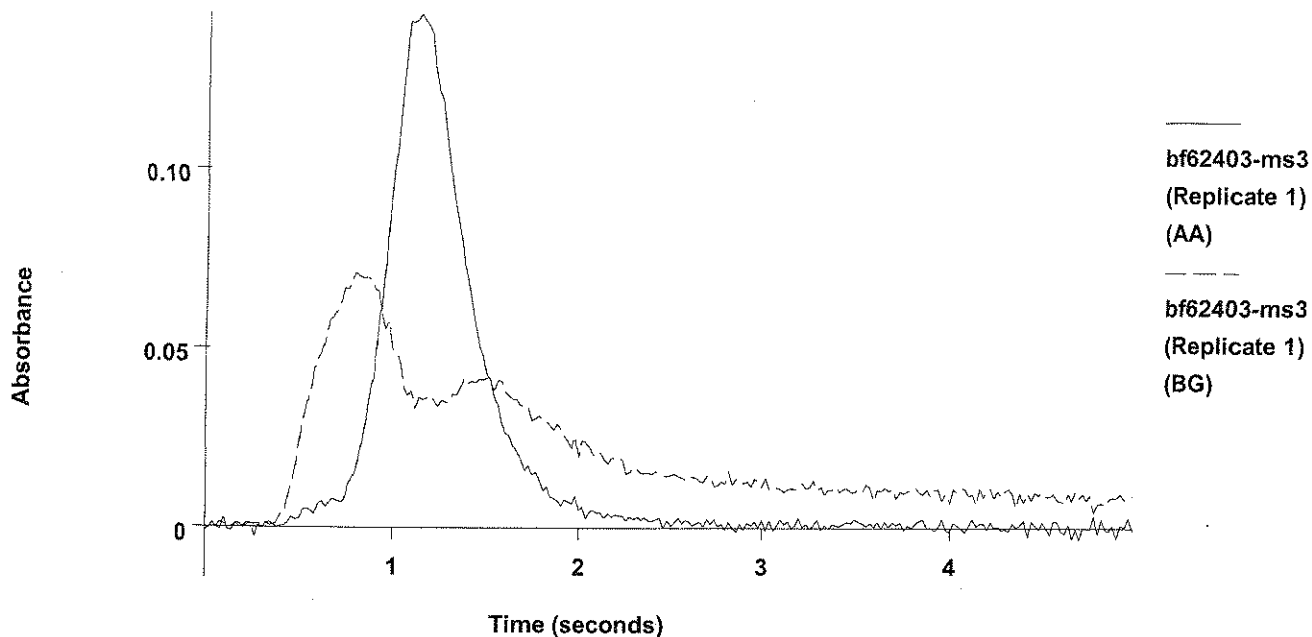


2	0.1	0.1	0.0010	0.0023	0.0041	0.0467	0.0540	09:27:11	Yes
Mean:	0.0	0.0	0.0005						
SD :	0.19	0.19	0.0007						
%RSD:	422	422	124.01						

=====  
 Element: As    Seq. No.: 221    AS Loc.: 66    Date: 06/27/2006  
 Sample ID: 0606375-01  
 µL dispensed: 10 from 148, 5 from 147, 15 from 66  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.0	2.0	0.0079	0.0091	0.0191	0.0869	0.0813	09:30:01	Yes

As



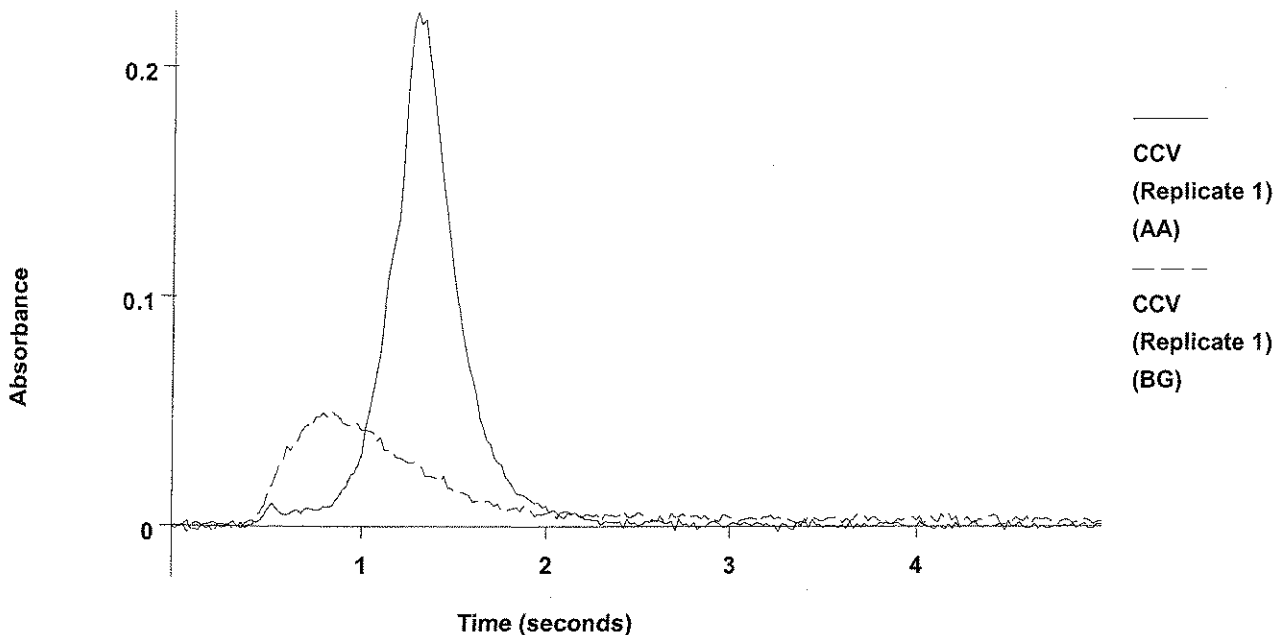
2	20.4	20.4	0.0747	0.0760	0.1401	0.1089	0.0795	10:24:45	Yes
Mean:	20.5	20.5	0.0751						
SD :	0.13	0.13	0.0005						
%RSD:	0.63	0.63	0.63						

1039

=====  
 Element: As    Seq. No.: 231    AS Loc.: 126    Date: 06/27/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.3	26.3	0.0963	0.0976	0.2239	0.0500	0.0507	10:27:37	Yes

As



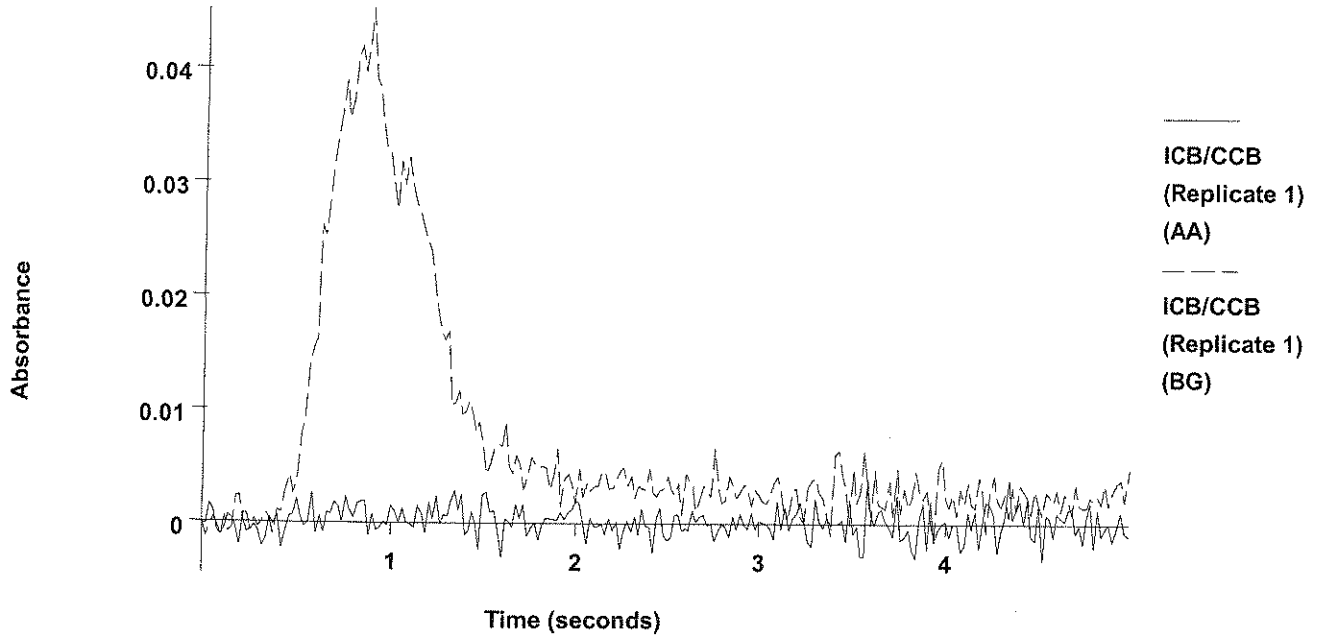
2	26.2	26.2	0.0959	0.0971	0.2255	0.0523	0.0532	10:30:29	Yes
Mean:	26.3	26.3	0.0961						
SD :	0.09	0.09	0.0003						
%RSD:	0.35	0.35	0.35						

QC value within specified limits.

=====  
 Element: As    Seq. No.: 232    AS Loc.: 148    Date: 06/27/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0006	0.0006	0.0040	0.0358	0.0453	10:33:19	Yes

As



2	-0.4	-0.4	-0.0009	0.0004	0.0035	0.0356	0.0415	10:36:09	Yes
Mean:	-0.4	-0.4	-0.0008						
SD :	0.05	0.05	0.0002						
%RSD:	13.3	13.3	25.25						

QC value within specified limits.

=====  
 Element: As    Seq. No.: 233    AS Loc.: 74    Date: 06/27/2006  
 Sample ID: bf62403-sd1 x5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 74  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0011	0.0002	0.0038	0.0598	0.0659	10:38:59	Yes

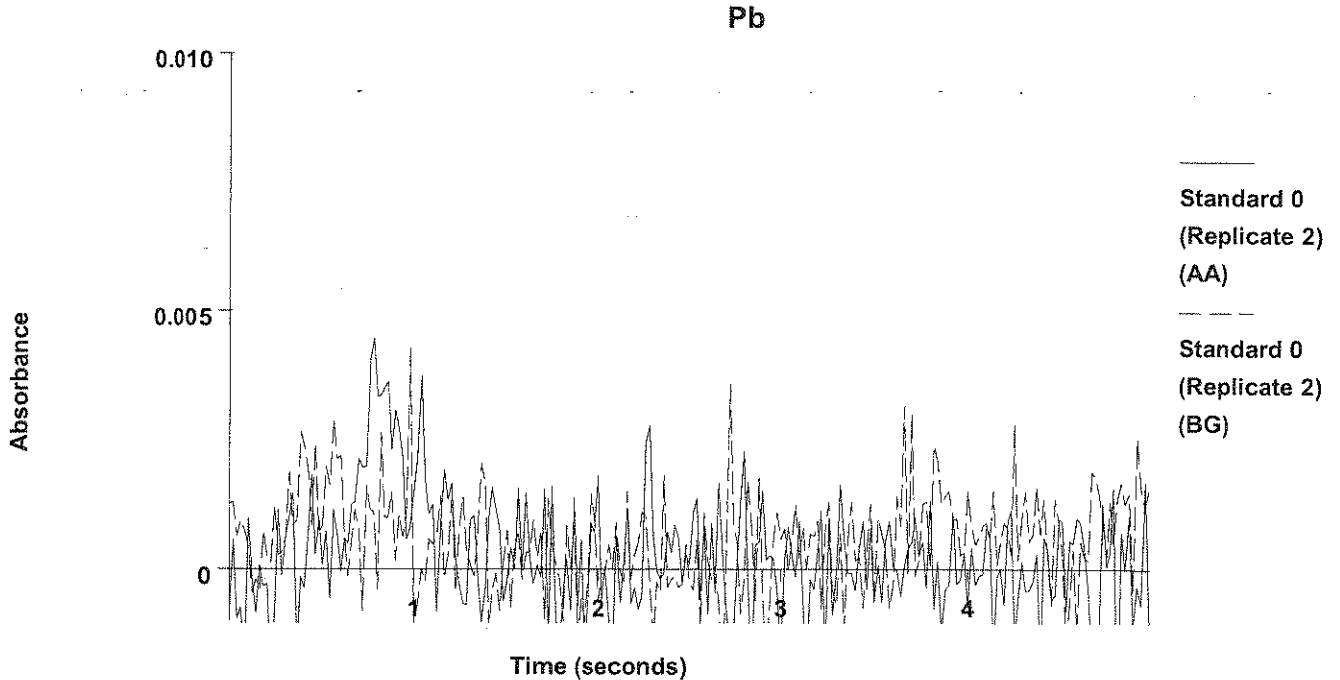
Method Name: Pb 2  
Method Description: Pb  
Element: Pb

Date: 06/27/2006  
Technique: Furnace  
Calibration Type:  
Pb, Calc. Intercept : Linear  
Wavelength: 283.3 nm  
Energy: 100  
Slit Width: 0.7  
Lamp Current: 10 mA  
Sample Info Name: 062606YA.SIF

Results Data Set Name: 062606yad

Element: Pb Seq. No.: 240 AS Loc.: 141 Date: 06/27/2006  
Sample ID: Standard 0  
µL dispensed: 10 from 141, 5 from 146, 15 from 141

Repl #	SampleConc	StndConc	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0015	0.0015	0.0051	0.0017	0.0025	11:20:35	Yes
2			0.0015	0.0015	0.0045	0.0029	0.0043	11:23:27	Yes



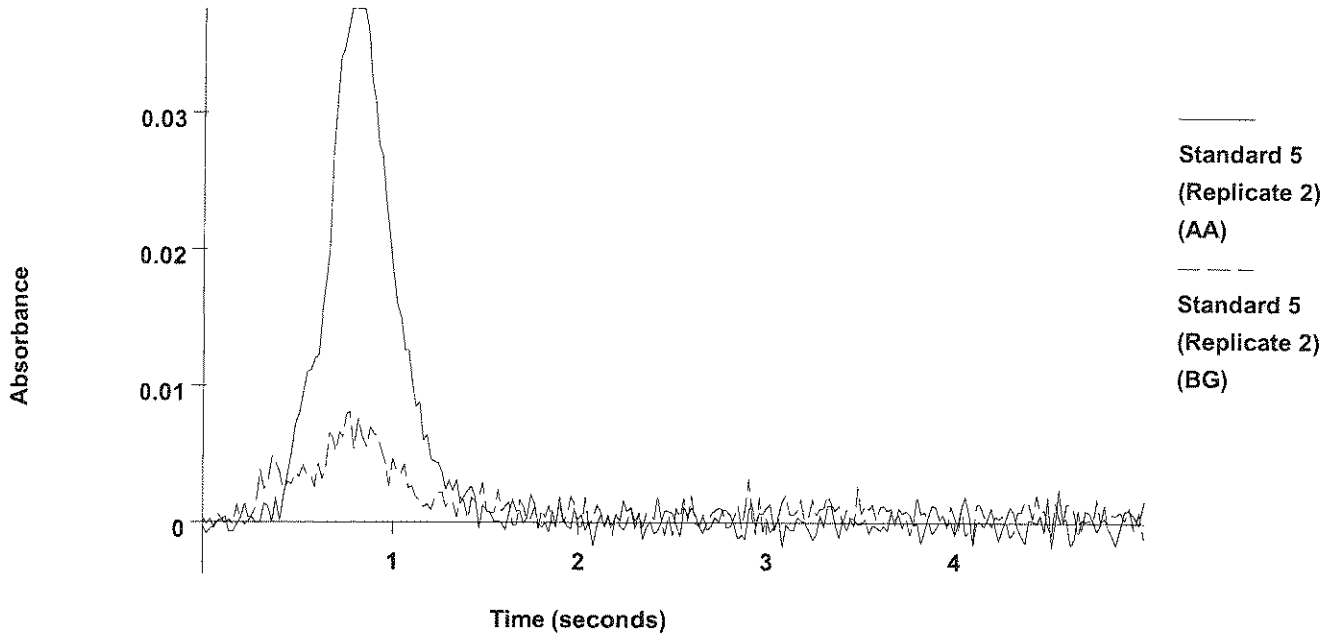
Mean: 0.0015  
SD : 0.0000  
%RSD: 2.29  
Auto-zero performed.

Element: Pb Seq. No.: 241 AS Loc.: 121 Date: 06/27/2006  
Sample ID: Standard 5  
µL dispensed: 10 from 141, 5 from 146, 15 from 121

Repl #	SampleConc	StndConc	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0156	0.0171	0.0432	0.0051	0.0112	11:26:46	Yes
2			0.0151	0.0166	0.0376	0.0062	0.0081	11:29:38	Yes



Pb

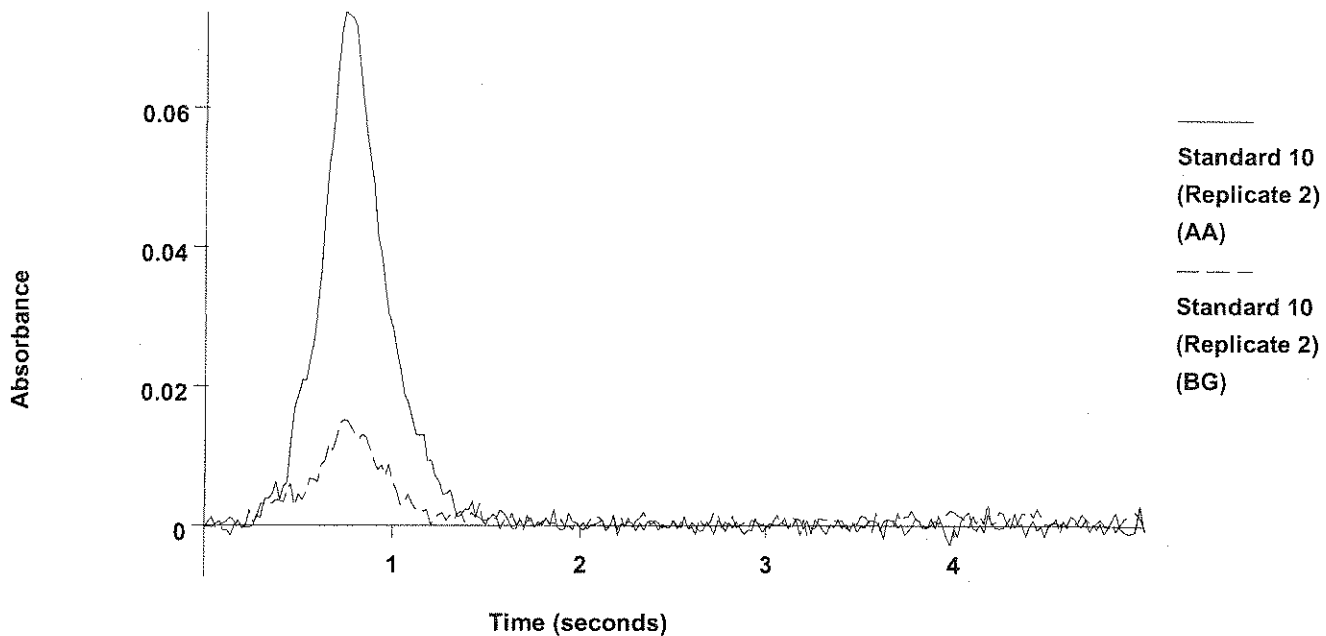


Mean: 0.0154  
 SD : 0.0004  
 %RSD: 2.44  
 [Pb] Standard number 1 applied. [5.0]  
 Correlation Coefficient: 1.00000 Slope: 0.00308  
 Intercept : 0.00000

=====  
 Element: Pb Seq. No.: 242 AS Loc.: 124 Date: 06/27/2006  
 Sample ID: Standard 10  
 µL dispensed: 10 from 141, 5 from 146, 15 from 124  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0287	0.0302	0.0736	0.0079	0.0154	11:33:00	Yes
2			0.0286	0.0301	0.0737	0.0090	0.0152	11:35:54	Yes

Pb



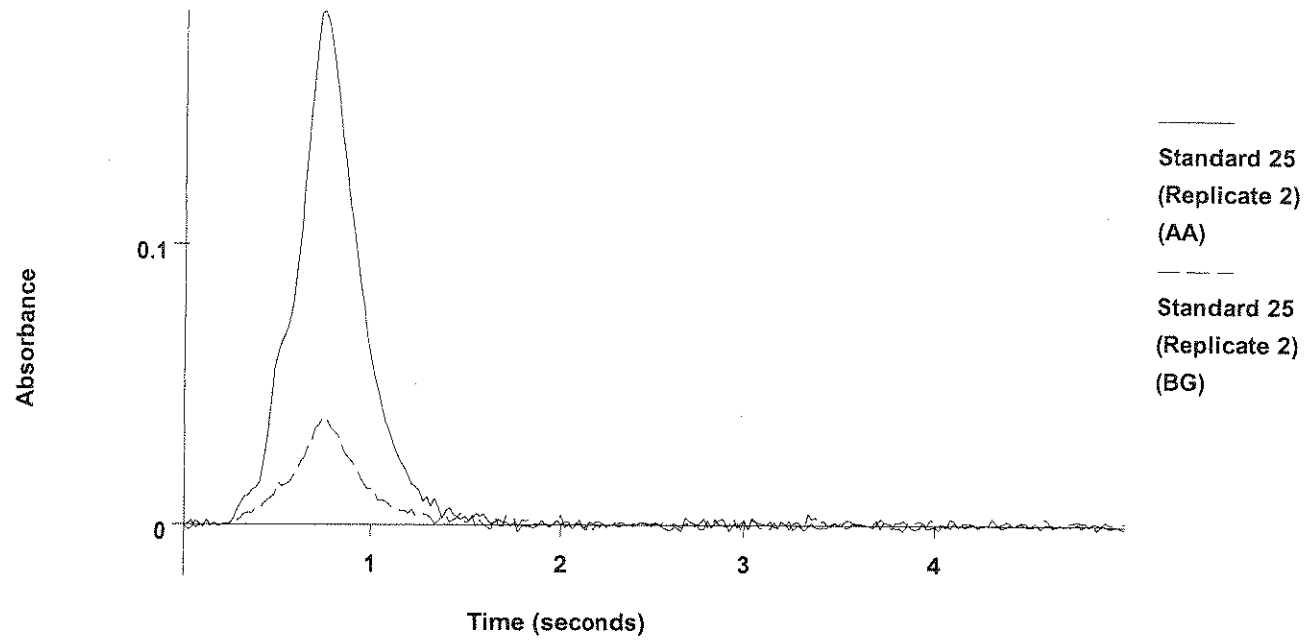
Mean: 0.0286  
 SD : 0.0001  
 %RSD: 0.20  
 [Pb] Standard number 2 applied. [10.0]  
 Correlation Coefficient: 0.99908  
 Intercept : 0.00035

Slope: 0.00286

=====  
 Element: Pb Seq. No.: 243 AS Loc.: 126 Date: 06/27/2006  
 Sample ID: Standard 25  
 µL dispensed: 10 from 141, 5 from 146, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0746	0.0761	0.1733	0.0179	0.0343	11:39:14	Yes
2			0.0730	0.0745	0.1834	0.0177	0.0381	11:42:09	Yes

Pb

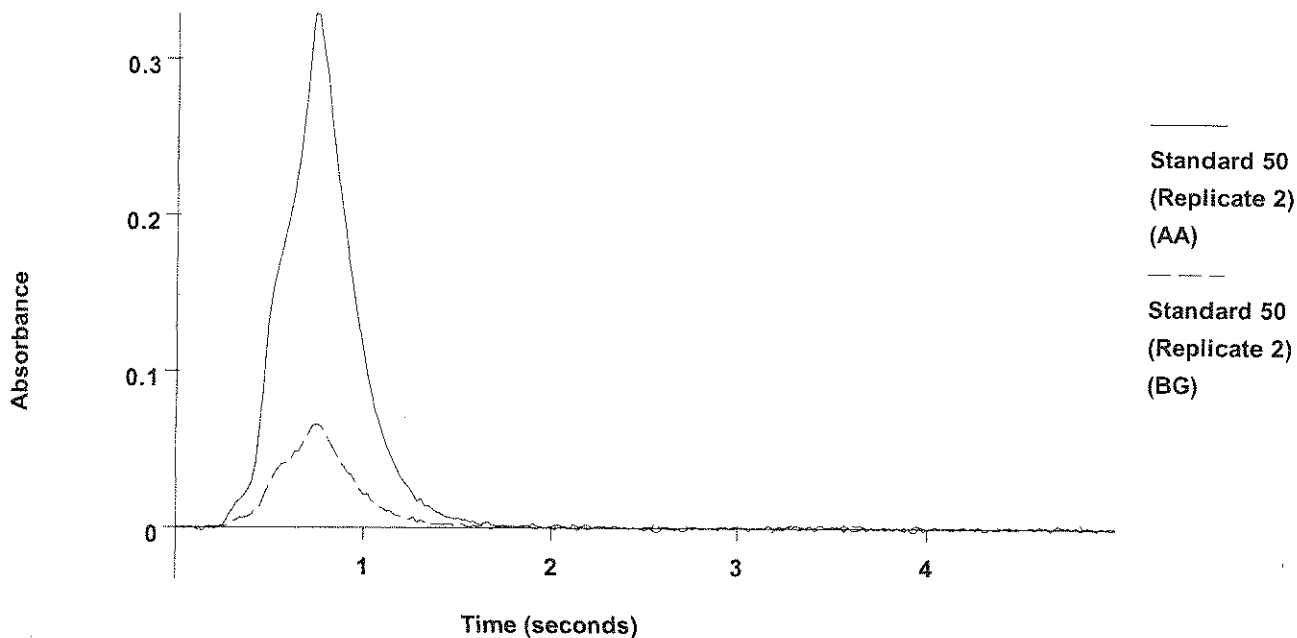


Mean: 0.0738  
 SD : 0.0011  
 %RSD: 1.52  
 [Pb] Standard number 3 applied. [25.0]  
 Correlation Coefficient: 0.99981 Slope: 0.00294  
 Intercept : 0.00002

=====  
 Element: Pb Seq. No.: 244 AS Loc.: 129 Date: 06/27/2006  
 Sample ID: Standard 50  
 µL dispensed: 10 from 141, 5 from 146, 15 from 129

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.1350	0.1364	0.3278	0.0304	0.0668	11:45:28	Yes
2			0.1372	0.1387	0.3291	0.0304	0.0659	11:48:21	Yes

Pb



Mean: 0.1361  
 SD : 0.0016  
 %RSD: 1.15  
 [Pb] Standard number 4 applied. [50.0]

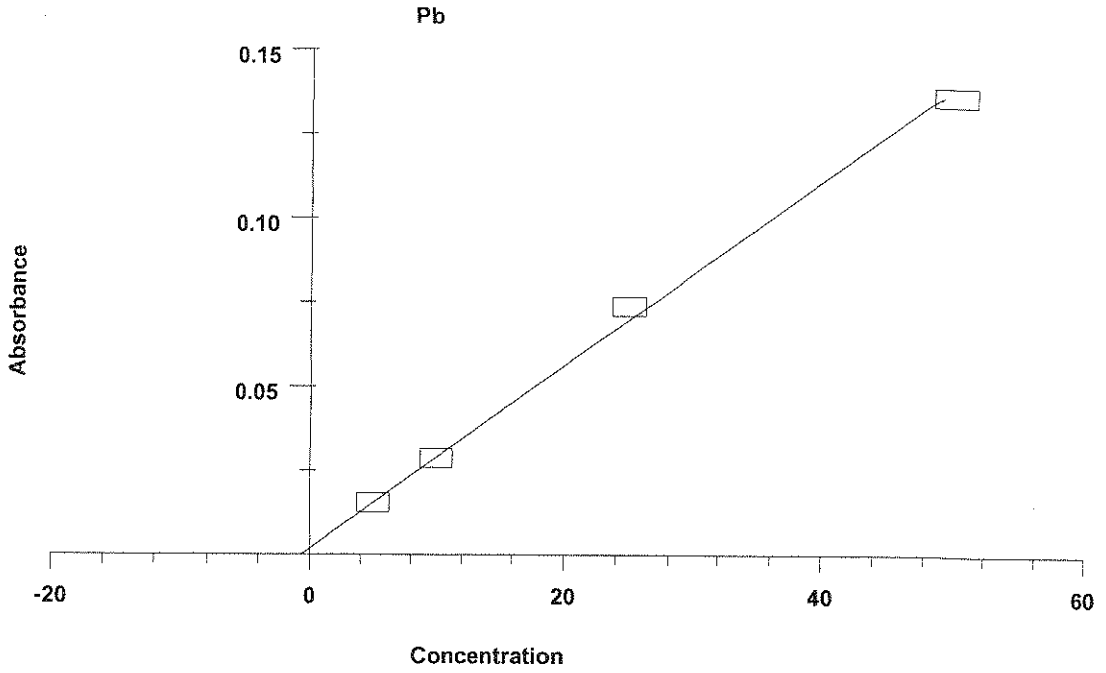
Slope: 0.00273

Intercept : 0.00173

Calibration data for Pb

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	0.0015	-	-	-	-
Standard 5	0.0154	5.0	5.0	0.00	2.44
Standard 10	0.0286	10.0	9.9	0.00	0.20
Standard 25	0.0738	25.0	26.5	0.00	1.52
Standard 50	0.1361	50.0	49.3	0.00	1.15
Correlation Coefficient: 0.99907		Slope:	0.00273	Intercept:	0.0017

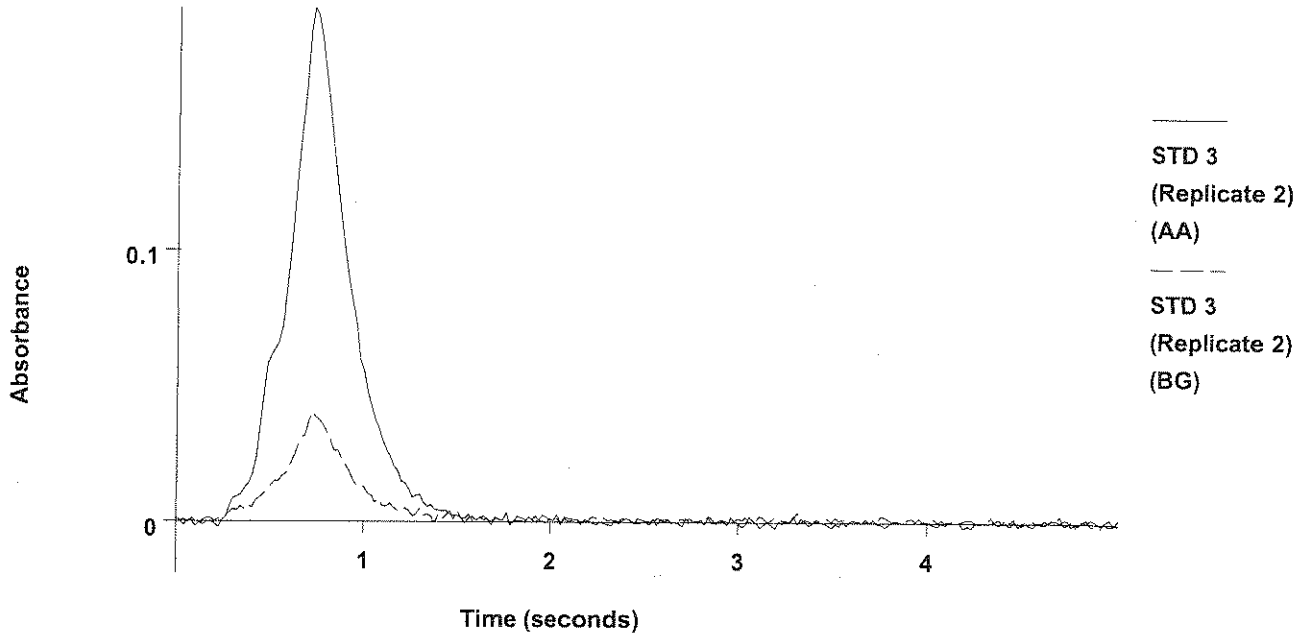
*Cal good  
 J 6/27/06*



=====  
 Element: Pb    Seq. No.: 245    AS Loc.: 126    Date: 06/27/2006  
 Sample ID: STD 3  
 µL dispensed: 10 from 141, 5 from 146, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.2	26.2	0.0732	0.0747	0.1722	0.0178	0.0349	11:51:20	Yes
2	25.8	25.8	0.0720	0.0735	0.1891	0.0192	0.0403	11:54:13	Yes

Pb



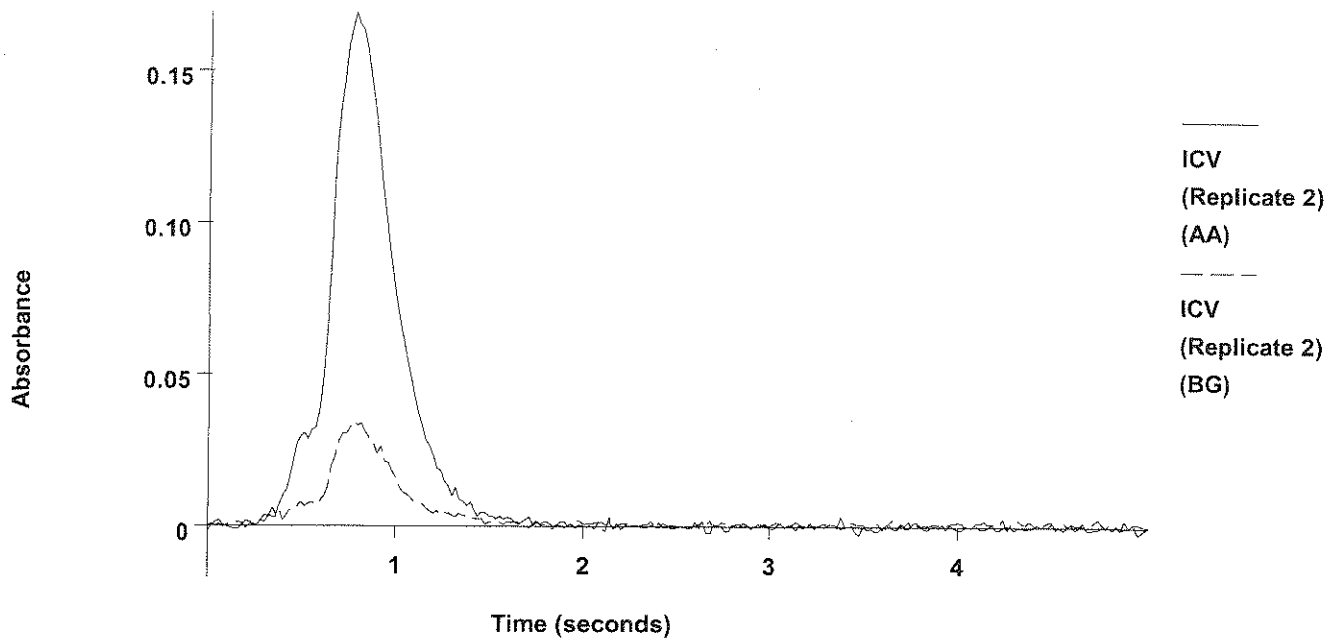
Mean: 26.0 26.0 0.0726  
 SD : 0.32 0.32 0.0009  
 %RSD: 1.21 1.21 1.18  
 QC value within specified limits.

1045 ✓

=====  
 Element: Pb Seq. No.: 246 AS Loc.: 134 Date: 06/27/2006  
 Sample ID: ICV  
 µL dispensed: 10 from 141, 5 from 146, 15 from 134  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.2	24.2	0.0677	0.0692	0.1775	0.0165	0.0362	11:57:06	Yes
2	23.7	23.7	0.0663	0.0678	0.1692	0.0169	0.0342	11:59:56	Yes

Pb

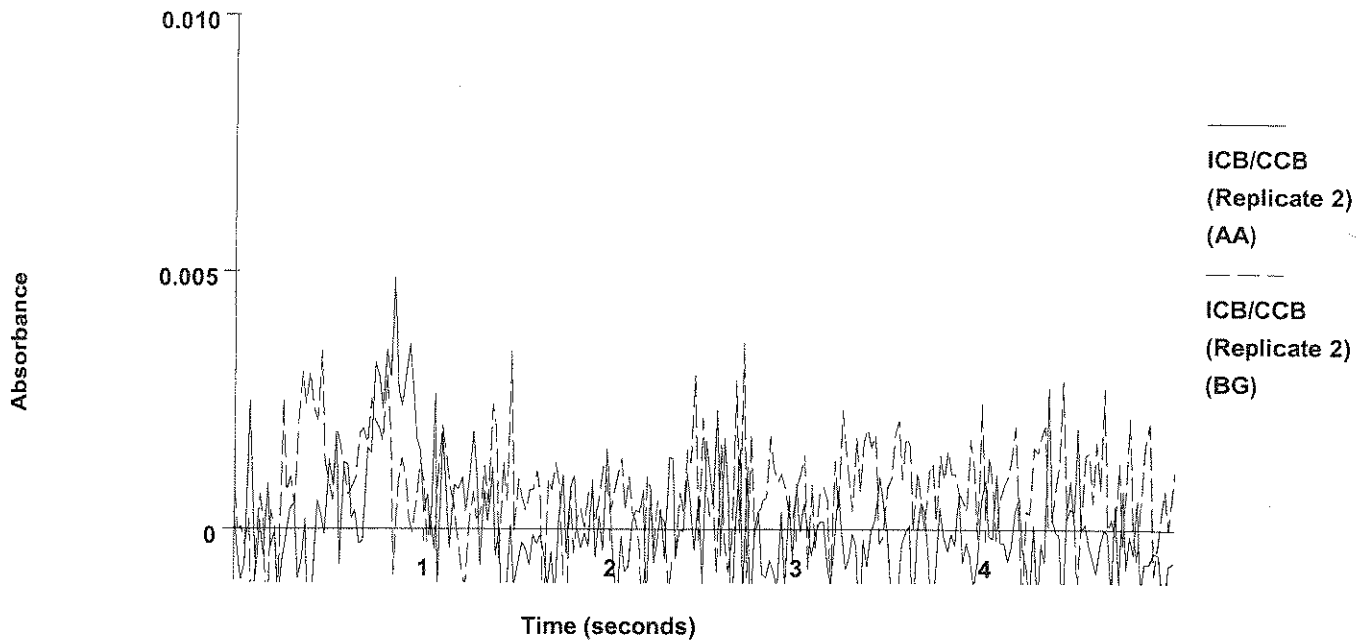


Mean: 24.0 24.0 0.0670  
 SD : 0.37 0.37 0.0010  
 %RSD: 1.53 1.53 1.49  
 QC value within specified limits.

=====  
 Element: Pb Seq. No.: 247 AS Loc.: 141 Date: 06/27/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 141, 5 from 146, 15 from 141  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.9	-0.9	-0.0007	0.0008	0.0043	0.0034	0.0036	12:02:48	Yes
2	-1.0	-1.0	-0.0010	0.0005	0.0049	0.0038	0.0036	12:05:41	Yes

Pb



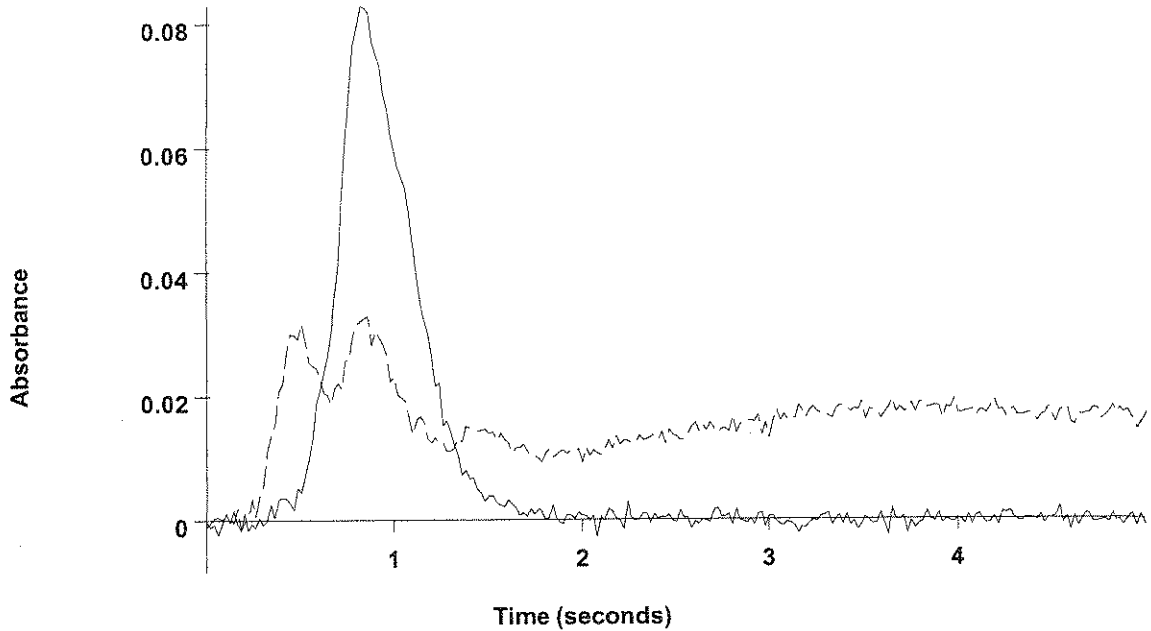
Mean: -0.9 -0.9 -0.0009  
 SD : 0.07 0.07 0.0002  
 %RSD: 7.87 7.87 23.78  
 QC value within specified limits.

=====  
 Element: Pb Seq. No.: 248 AS Loc.: 136 Date: 06/27/2006  
 Sample ID: CRA 2  
 µL dispensed: 10 from 141, 5 from 146, 15 from 136  
 =====

Repl #	Sample Conc µg/L	Stnd Conc µg/L	Blk Corr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.1	1.1	0.0049	0.0063	0.0164	0.0045	0.0045	12:08:33	Yes
2	1.3	1.3	0.0052	0.0067	0.0168	0.0050	0.0054	12:11:23	Yes



Pb



bf62301-dup2  
(Replicate 2)  
(AA)

bf62301-dup2  
(Replicate 2)  
(BG)

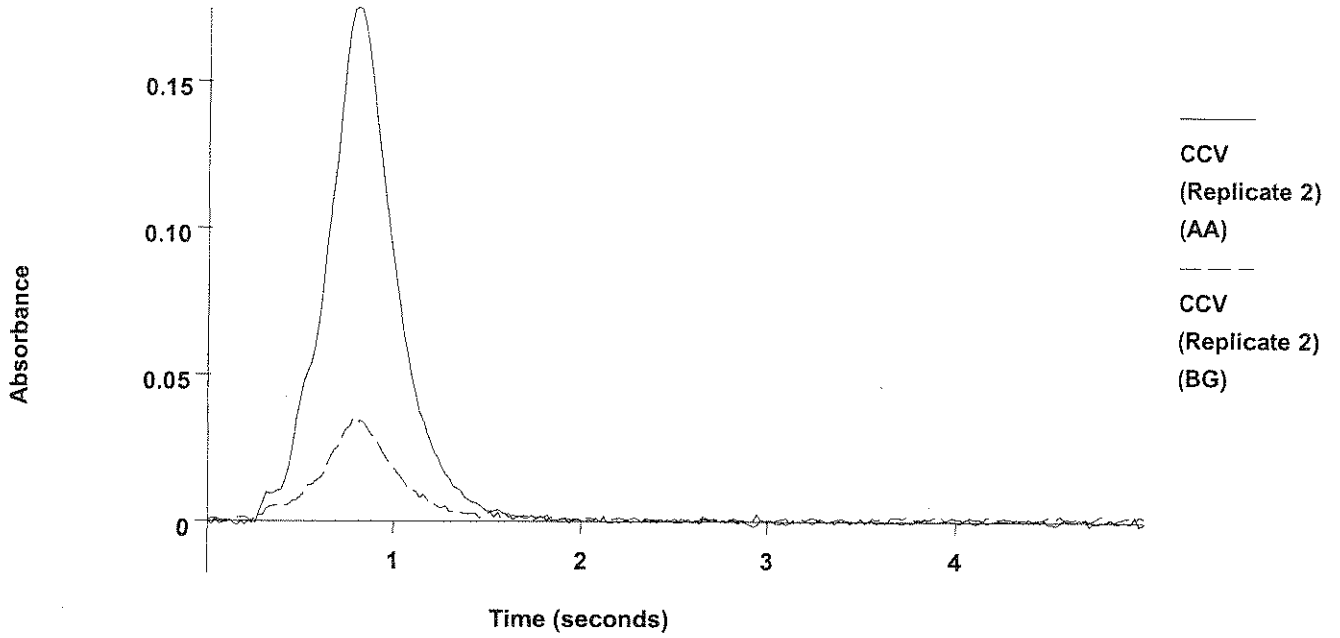
Mean: 12.9 12.9 -0.0369  
SD : 0.00 0.00 0.0000  
%RSD: 0.00 0.00 0.00

052

=====  
Element: Pb Seq. No.: 326 AS Loc.: 126 Date: 06/27/2006  
Sample ID: CCV  
μL dispensed: 10 from 141, 5 from 146, 15 from 126  
=====

Repl #	SampleConc μg/L	StndConc μg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.2	27.2	0.0759	0.0774	0.1633	0.0203	0.0309	07:39:03	Yes
2	27.1	27.1	0.0757	0.0772	0.1751	0.0197	0.0346	07:41:55	Yes

Pb



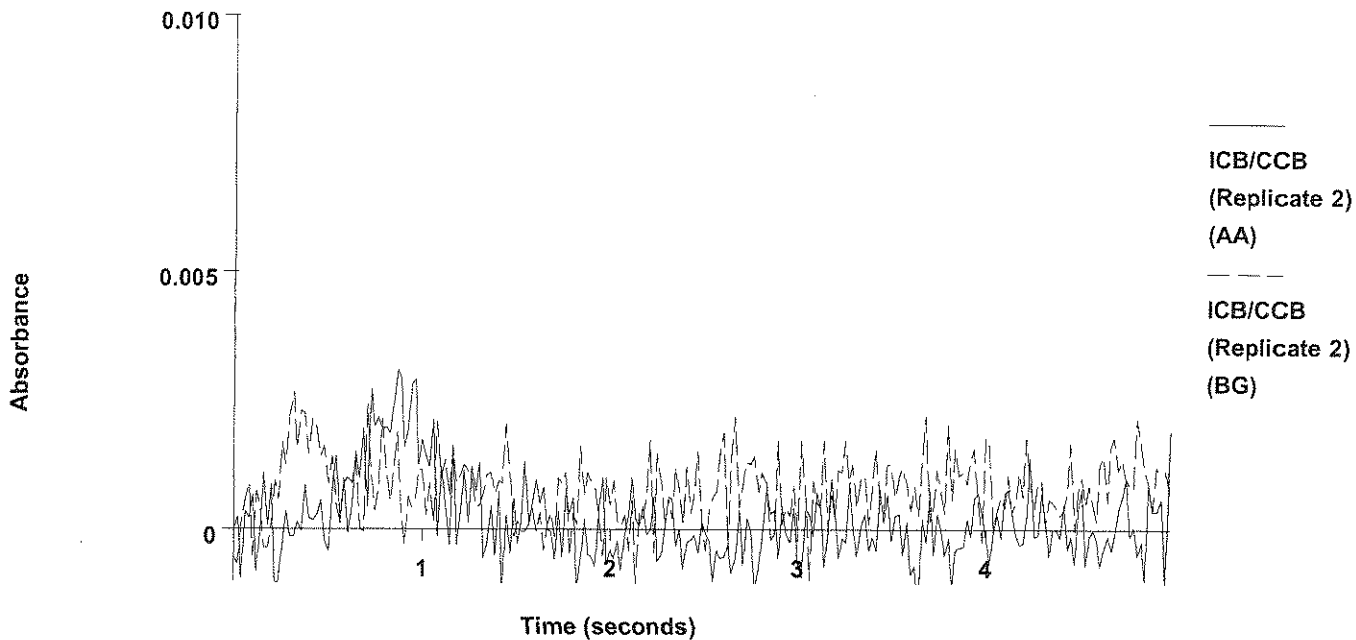
Mean: 27.2 27.2 0.0758  
 SD : 0.06 0.06 0.0002  
 %RSD: 0.22 0.22 0.21  
 QC value within specified limits.

1095

=====  
 Element: Pb Seq. No.: 327 AS Loc.: 141 Date: 06/27/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 141, 5 from 146, 15 from 141  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	0.0000	0.0015	0.0032	0.0043	0.0032	07:44:47	Yes
2	-0.8	-0.8	-0.0005	0.0010	0.0031	0.0039	0.0027	07:47:41	Yes

Pb

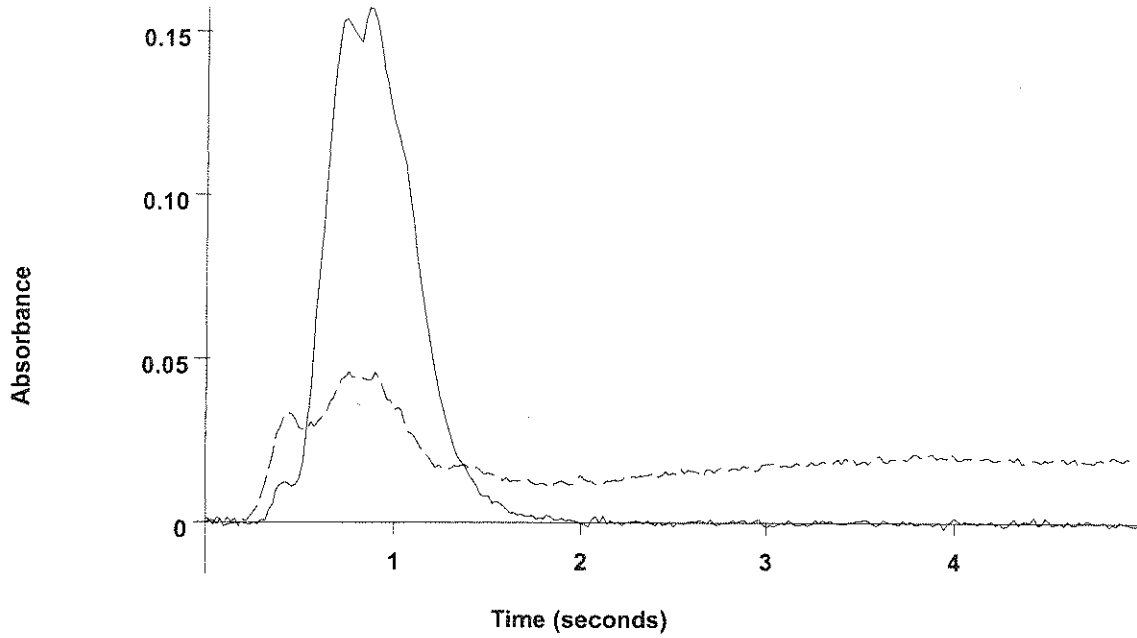


Mean: -0.7 -0.7 -0.0002  
 SD : 0.13 0.13 0.0004  
 %RSD: 18.79 18.79 173.22  
 QC value within specified limits.

=====  
 Element: Pb Seq. No.: 328 AS Loc.: 52 Date: 06/27/2006  
 Sample ID: bf62301-ms3  
 µL dispensed: 10 from 141, 5 from 146, 15 from 52  
 =====

Repl #	SampleConc µg/L	StdndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	30.9	30.9	0.0859	0.0874	0.1839	0.0760	0.0550	07:50:31	Yes
2	30.6	30.6	0.0852	0.0866	0.1572	0.0945	0.0459	07:53:21	Yes

Pb



-----  
 bf62301-ms3  
 (Replicate 2)  
 (AA)  
 -----  
 bf62301-ms3  
 (Replicate 2)  
 (BG)

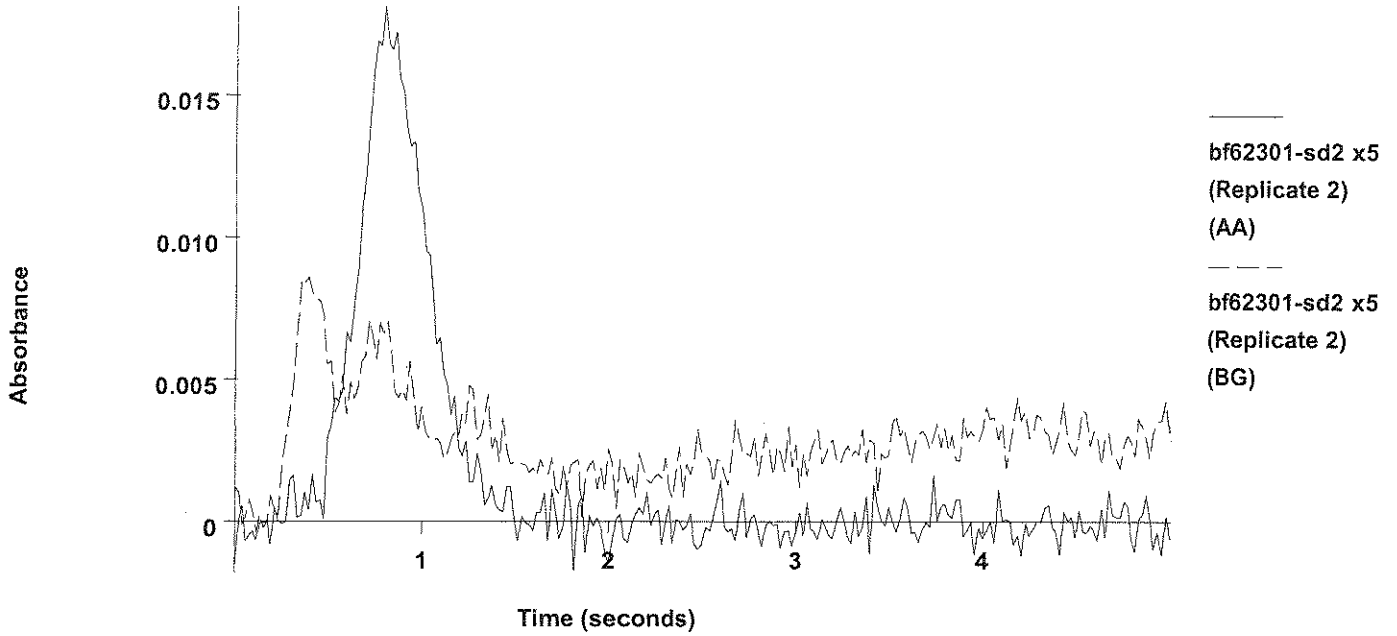
Mean: 30.8 30.8 0.0855  
 SD : 0.20 0.20 0.0005  
 %RSD: 0.64 0.64 0.62

30.8-12.9  
 20 = 905

=====  
 Element: Pb Seq. No.: 329 AS Loc.: 53 Date: 06/27/2006  
 Sample ID: bf62301-sd2 x5  
 µL dispensed: 10 from 141, 5 from 146, 15 from 53

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.5	1.5	0.0057	0.0072	0.0183	0.0175	0.0106	07:56:10	Yes
2	1.5	1.5	0.0059	0.0074	0.0181	0.0145	0.0086	07:59:00	Yes

Pb

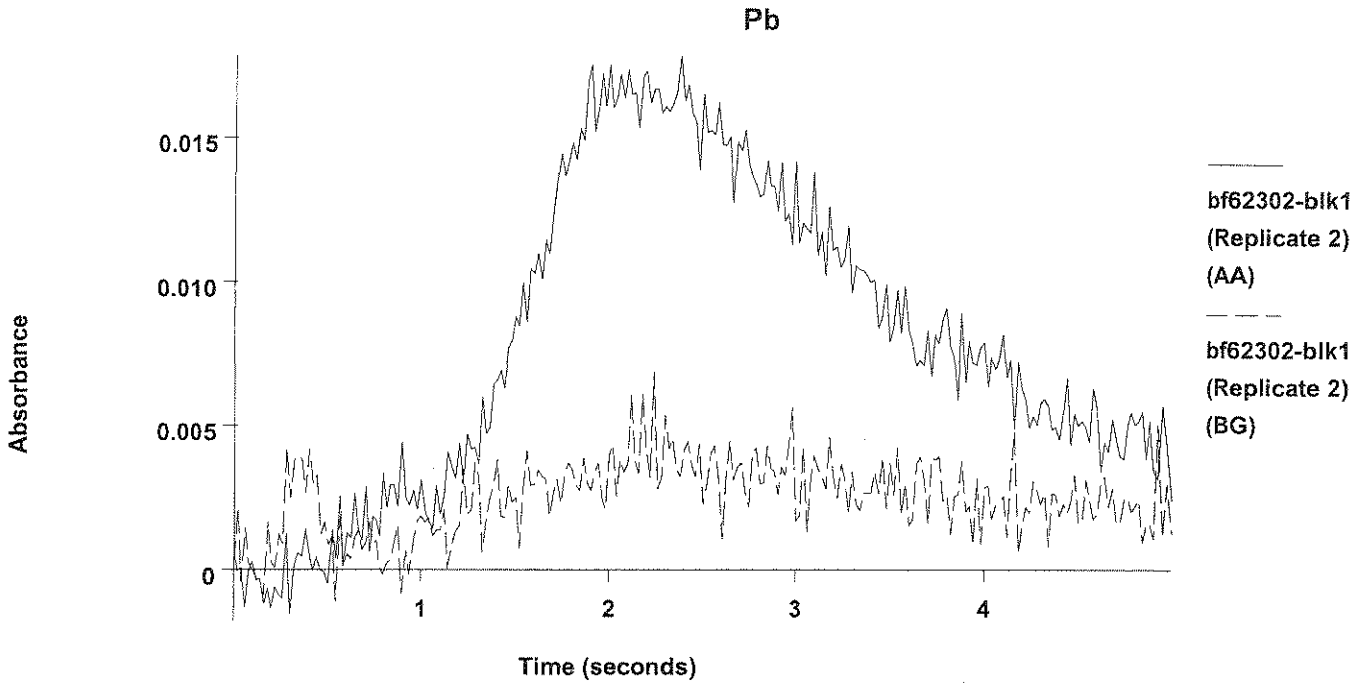


Mean: 1.5 1.5 0.0058  
 SD : 0.06 0.06 0.0002  
 %RSD: 3.77 3.77 2.65

*Handwritten signature*

=====  
 Element: Pb Seq. No.: 330 AS Loc.: 54 Date: 06/27/2006  
 Sample ID: bf62302-blk1  
 µL dispensed: 10 from 141, 5 from 146, 15 from 54  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.9	-0.9	-0.0006	0.0009	0.0032	0.0040	0.0030	08:01:52	Yes
2	13.3	13.3	0.0381	0.0395	0.0178	0.0124	0.0069	08:04:42	Yes

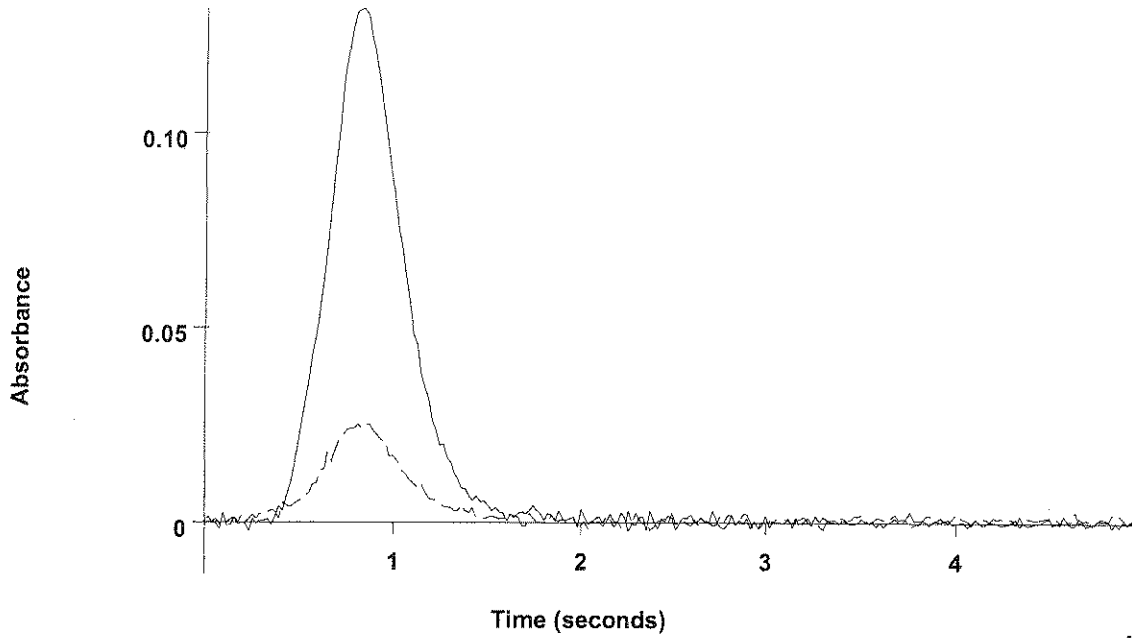


Mean: 6.2 6.2 0.0187  
 SD : 10.03 10.03 0.0273  
 %RSD: 160.9 160.9 146.04

=====  
 Element: Pb Seq. No.: 331 AS Loc.: 54 Date: 06/27/2006  
 Sample ID: bf62302-blk1  
 µL dispensed: 4 from 141, 5 from 146, 6 from 131, 15 from 54  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	21.0	21.0	0.0589	0.0604	0.1321	0.0155	0.0254	08:07:40	Yes
2	21.6	21.6	0.0606	0.0621	0.1319	0.0152	0.0253	08:10:39	Yes

Pb



bf62302-blk1  
(Replicate 2)  
(AA)

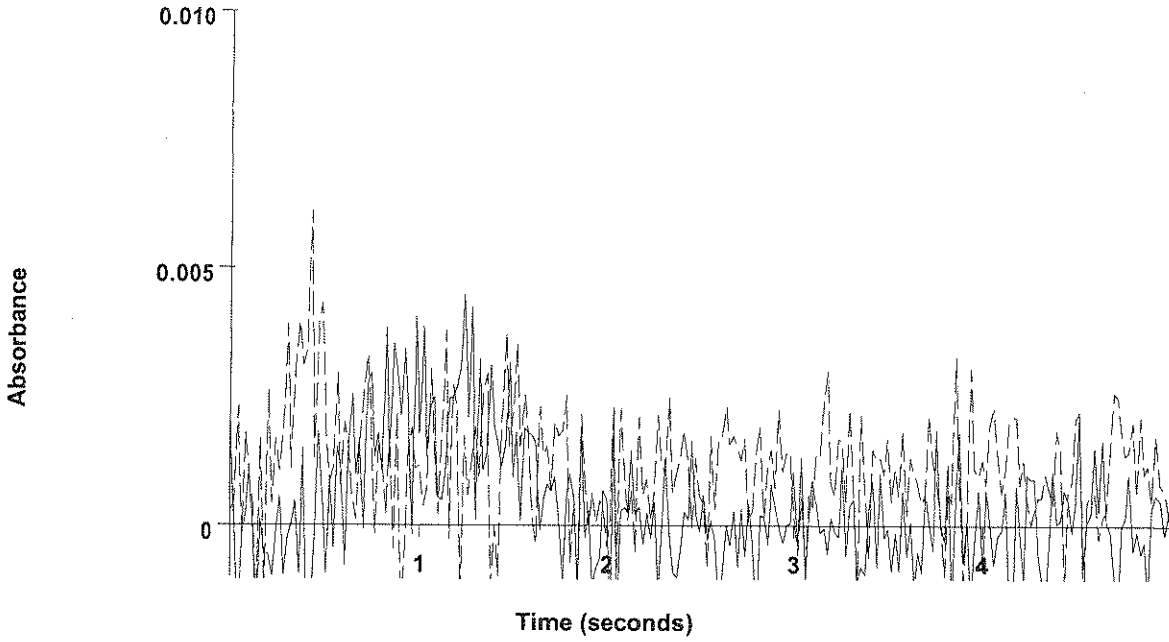
bf62302-blk1  
(Replicate 2)  
(BG)

Mean: 21.3 21.3 0.0597  
 SD : 0.44 0.44 0.0012  
 %RSD: 2.08 2.08 2.02  
 Recovery for Pb = 75.3 %, less than lower limit of 85 %

=====  
 Element: Pb Seq. No.: 332 AS Loc.: 54 Date: 06/27/2006  
 Sample ID: bf62302-blk1  
 µL dispensed: 20 from 141, 5 from 146, 5 from 54  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-2.7	-0.9	-0.0007	0.0007	0.0031	0.0041	0.0042	08:13:30	Yes
2	-1.4	-0.5	0.0005	0.0020	0.0045	0.0057	0.0061	08:16:20	Yes

Pb



-----  
 bf62302-blk1  
 (Replicate 2)  
 (AA)  
 -----  
 bf62302-blk1  
 (Replicate 2)  
 (BG)

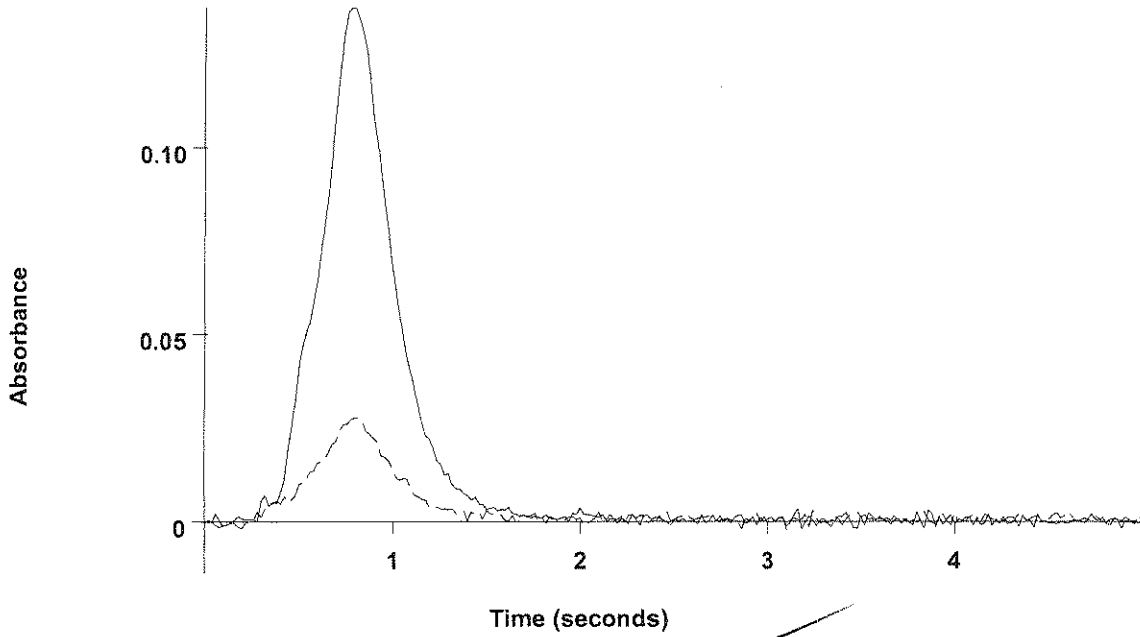
Mean: -2.0 -0.7 -0.0001  
 SD : 0.95 0.32 0.0009  
 %RSD: 46.55 46.55 679.78

=====  
 Element: Pb Seq. No.: 333 AS Loc: 54 Date: 06/27/2006  
 Sample ID: bf62302-blk1  
 µL dispensed: 14 from 141, 5 from 146, 6 from 131, 5 from 54  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	65.4	21.8	0.0612	0.0627	0.1389	0.0169	0.0286	08:19:17	Yes
2	67.5	22.5	0.0631	0.0646	0.1375	0.0162	0.0277	08:22:15	Yes



Pb



bf62302-blk1  
(Replicate 2)  
(AA)

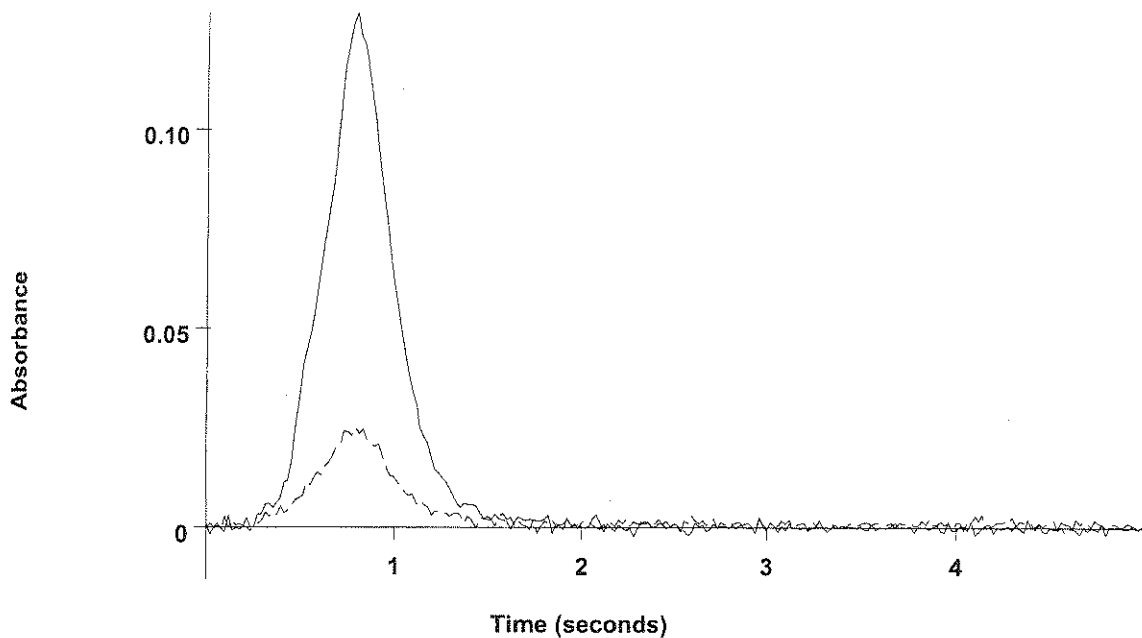
bf62302-blk1  
(Replicate 2)  
(BG)

Mean: 66.5 22.2 0.0521  
 SD : 1.48 0.49 0.0013  
 %RSD: 2.23 2.23 2.17  
 Recovery for Pb = 110.8 % within 85 % to 115 %

=====  
 Element: Pb Seq. No.: 334 AS Loc.: 55 Date: 06/27/2006  
 Sample ID: bf62302-bs2  
 µL dispensed: 10 from 141, 5 from 146, 15 from 55  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.2	19.2	0.0539	0.0554	0.1245	0.0151	0.0271	08:25:05	Yes
2	19.6	19.6	0.0552	0.0567	0.1294	0.0155	0.0249	08:27:54	Yes

Pb



-----  
 bf62302-bs2  
 (Replicate 2)  
 (AA)  
 -----  
 bf62302-bs2  
 (Replicate 2)  
 (BG)

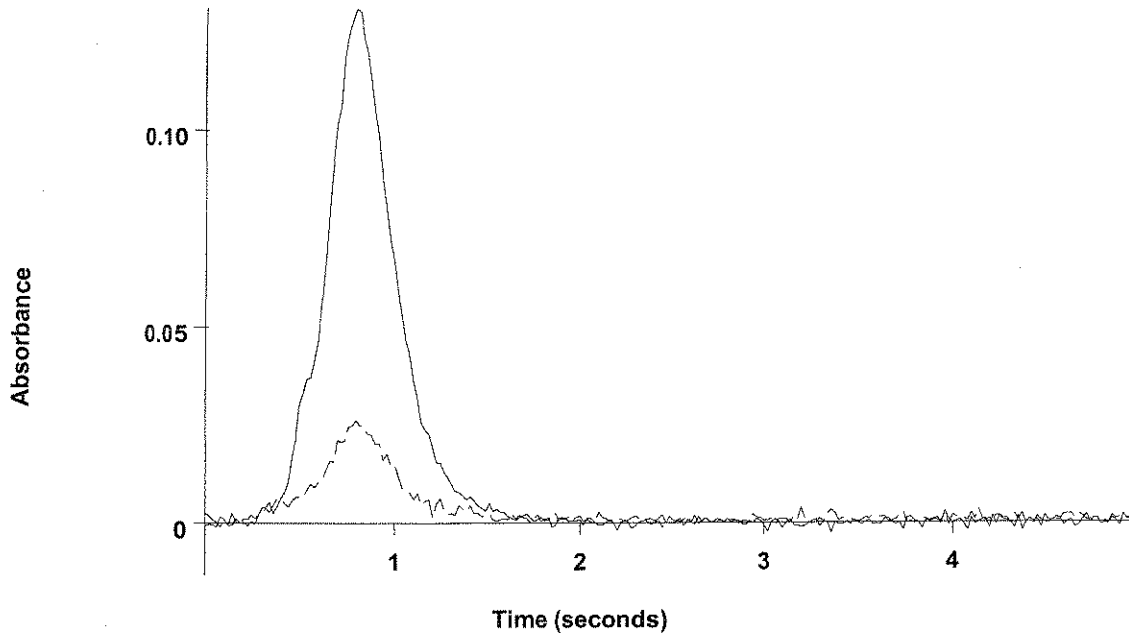
Mean: 19.4 19.4 0.0546  
 SD : 0.33 0.33 0.0009  
 %RSD: 1.70 1.70 1.65

975

=====  
 Element: Pb Seq. No.: 335 AS Loc.: 56 Date: 06/27/2006  
 Sample ID: bf62302-bsd2  
 µL dispensed: 10 from 141, 5 from 146, 15 from 56

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.1	20.1	0.0564	0.0579	0.1252	0.0152	0.0248	08:30:44	Yes
2	19.8	19.8	0.0556	0.0570	0.1309	0.0156	0.0262	08:33:35	Yes

Pb



bf62302-bsd2  
(Replicate 2)  
(AA)

bf62302-bsd2  
(Replicate 2)  
(BG)

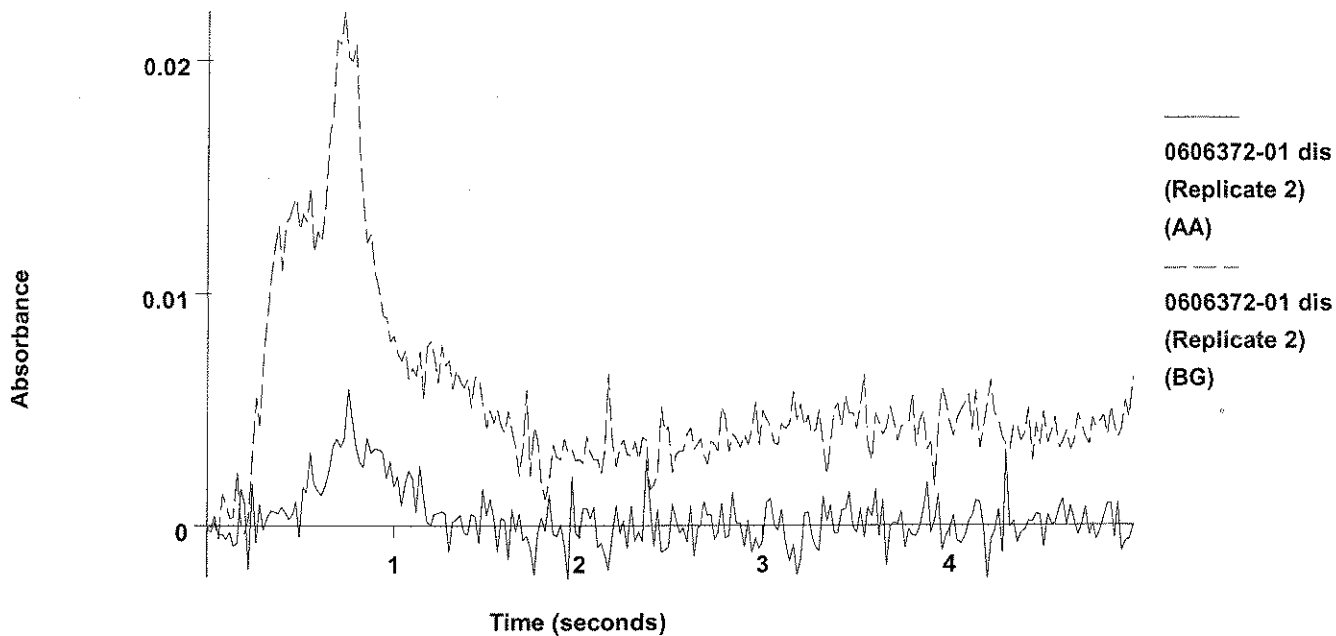
Mean: 19.9 19.9 0.0560  
SD : 0.22 0.22 0.0006  
%RSD: 1.08 1.08 1.05

1005

=====  
Element: Pb Seq. No.: 336 AS Loc.: 57 Date: 06/27/2006  
Sample ID: 0606372-01 dis  
µL dispensed: 10 from 141, 5 from 146, 15 from 57  
=====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.8	-0.8	-0.0004	0.0011	0.0057	0.0259	0.0210	08:36:26	Yes
2	-0.5	-0.5	0.0003	0.0017	0.0059	0.0273	0.0221	08:39:15	Yes

Pb



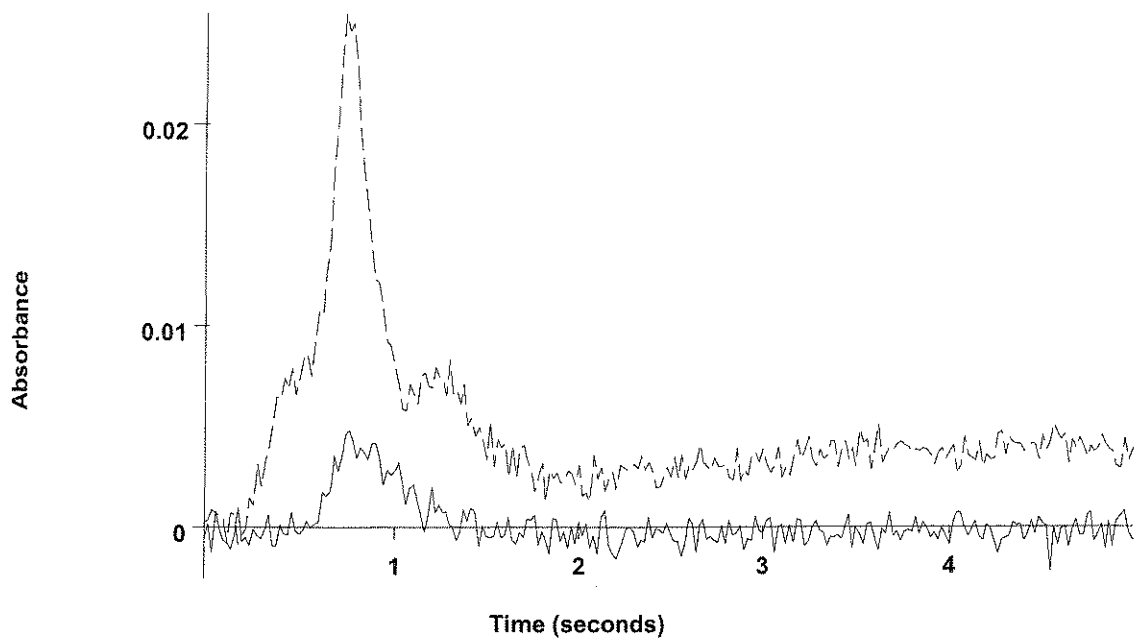
Mean:        -0.7        -0.7        -0.0001  
 SD :        0.16        0.16        0.0004  
 %RSD:      25.01        25.01        821.24

*Handwritten signature*

=====  
 Element: Pb    Seq. No.: 337    AS Loc.: 58    Date: 06/27/2006  
 Sample ID: 0606372-02 dis  
 µL dispensed: 10 from 141, 5 from 146, 15 from 58  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	0.0003	0.0018	0.0048	0.0234	0.0278	08:42:06	Yes
2	-1.0	-1.0	-0.0009	0.0006	0.0048	0.0239	0.0255	08:44:56	Yes

Pb



-----  
 0606372-02 dis  
 (Replicate 2)  
 (AA)  
 -----  
 0606372-02 dis  
 (Replicate 2)  
 (BG)

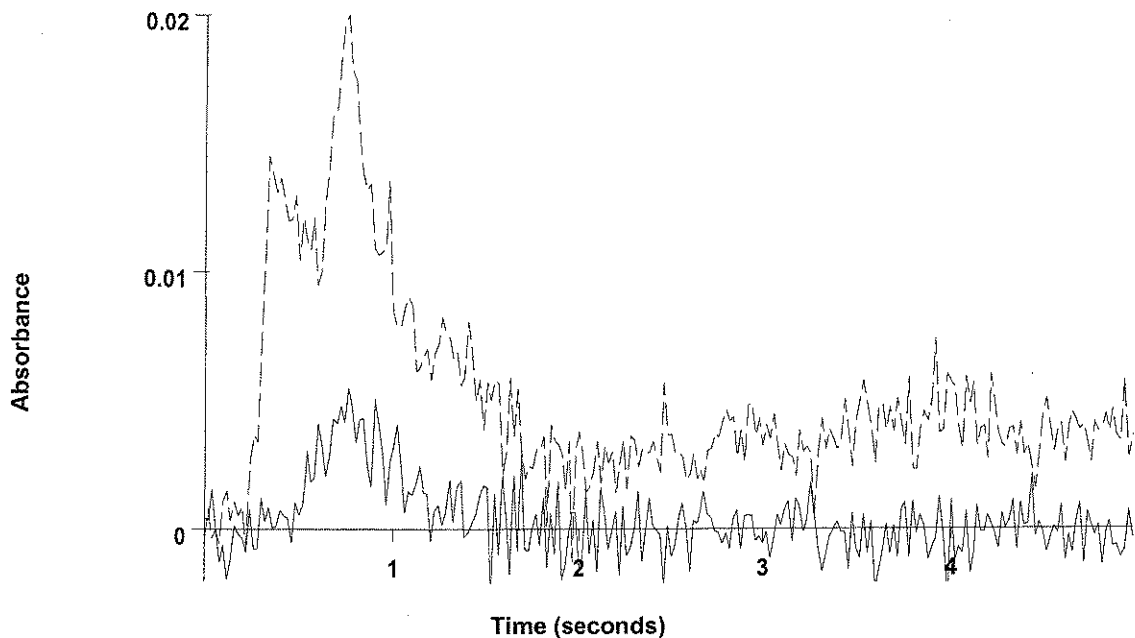
Mean:            -0.7            -0.7            -0.0003  
 SD :             0.33            0.33            0.0009  
 %RSD:           44.10           44.10           314.37

*Handwritten signature*

=====  
 Element: Pb    Seq. No.: 338    AS Loc.: 59    Date: 06/27/2006  
 Sample ID: 0606372-03 dis  
 µL dispensed: 10 from 141, 5 from 146, 15 from 59  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	0.0007	0.0022	0.0063	0.0260	0.0207	08:47:48	Yes
2	-0.5	-0.5	0.0004	0.0019	0.0055	0.0255	0.0200	08:50:37	Yes

Pb



0606372-03 dis  
(Replicate 2)  
(AA)

0606372-03 dis  
(Replicate 2)  
(BG)

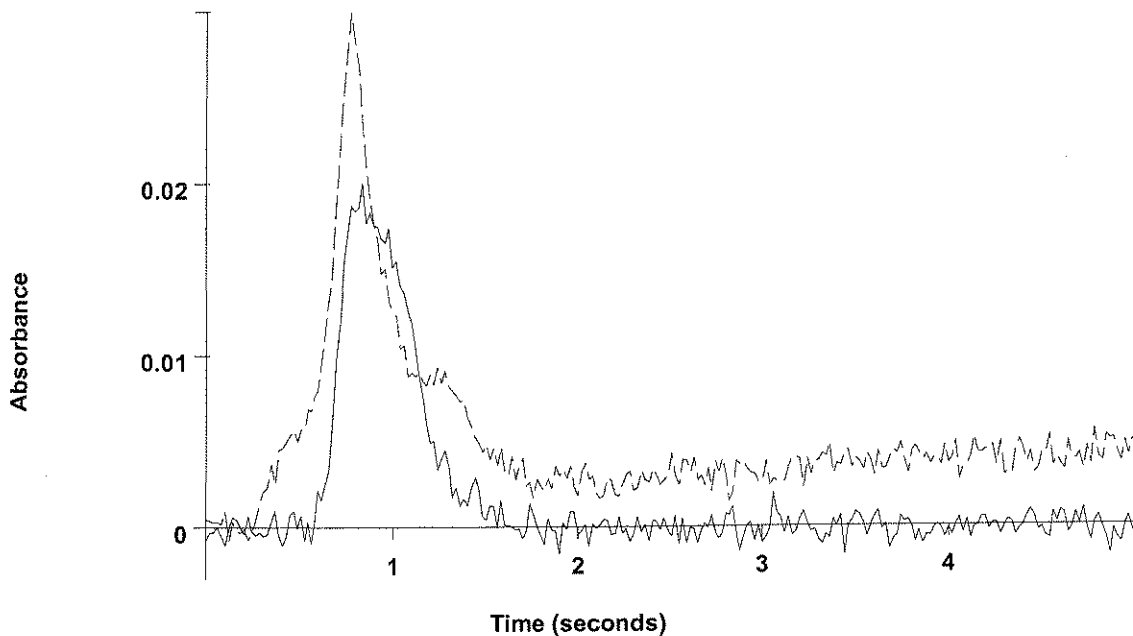
Mean:            -0.4            -0.4            0.0006  
SD :              0.08            0.08            0.0002  
%RSD:           19.34           19.34           41.36

*Handwritten signature*

=====  
Element: Pb    Seq. No.: 339    AS Loc.: 60    Date: 06/27/2006  
Sample ID: 0606372-01  
µL dispensed: 10 from 141, 5 from 146, 15 from 60  
=====

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.2	2.2	0.0076	0.0091	0.0209	0.0240	0.0334	08:53:27	Yes
2	1.8	1.8	0.0067	0.0082	0.0200	0.0255	0.0299	08:56:19	Yes

Pb



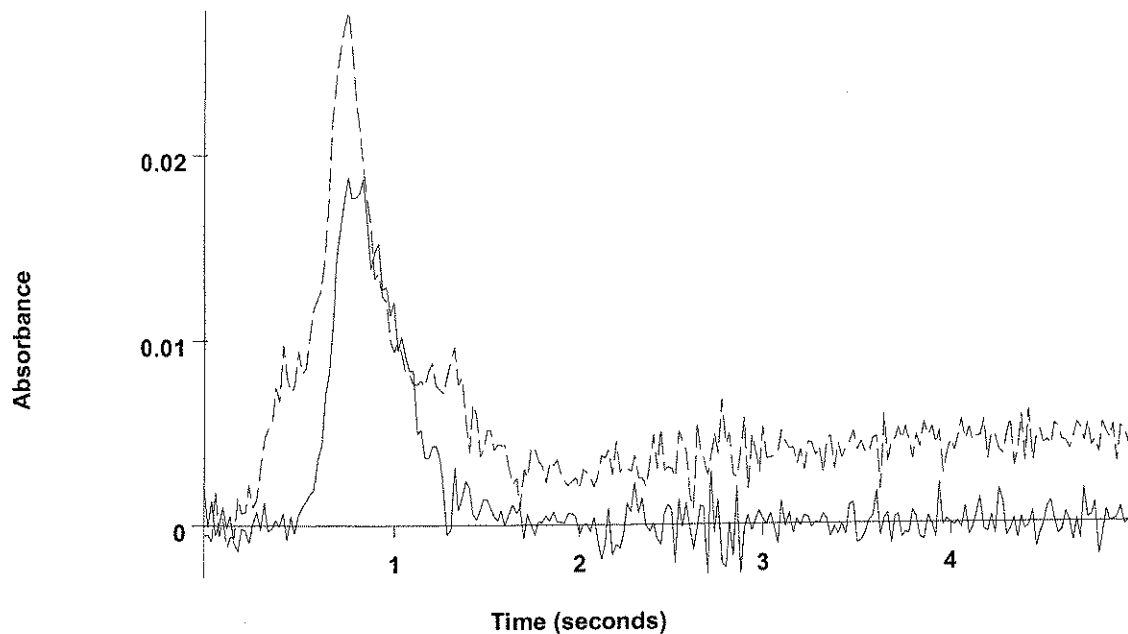
-----  
 0606372-01  
 (Replicate 2)  
 (AA)  
 -----  
 0606372-01  
 (Replicate 2)  
 (BG)

Mean:           2.0           2.0           0.0072  
 SD :            0.22           0.22           0.0006  
 %RSD:          11.02          11.02          8.36

=====  
 Element: Pb   Seq. No.: 340   AS Loc.: 61   Date: 06/27/2006  
 Sample ID: 0606372-02  
 µL dispensed: 10 from 141, 5 from 146, 15 from 61  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.7	1.7	0.0063	0.0078	0.0183	0.0260	0.0280	08:59:12	Yes
2	1.7	1.7	0.0063	0.0078	0.0188	0.0274	0.0278	09:02:03	Yes

Pb



0606372-02  
(Replicate 2)  
(AA)

0606372-02  
(Replicate 2)  
(BG)

Mean:	1.7	1.7	0.0063
SD :	0.00	0.00	0.0000
%RSD:	0.14	0.14	0.10

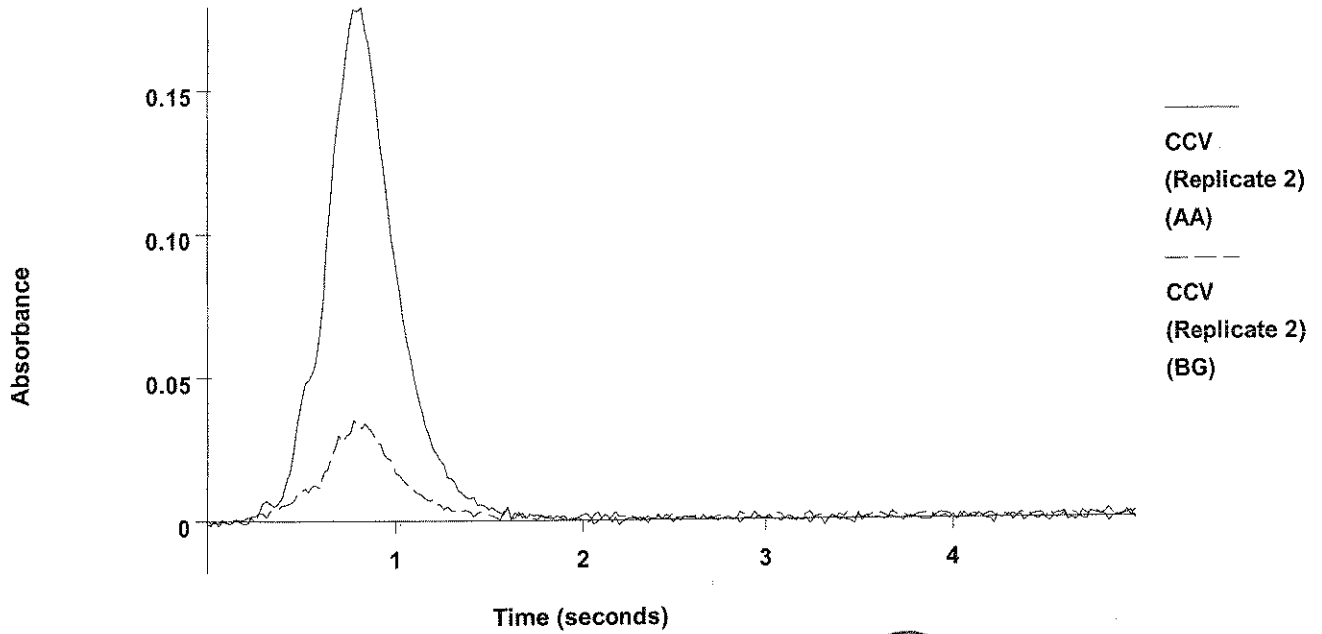
*PD*

=====  
 Element: Pb    Seq. No.: 341    AS Loc.: 126    Date: 06/27/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 141, 5 from 146, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	28.1	28.1	0.0784	0.0799	0.1785	0.0202	0.0363	09:04:55	Yes
2	27.8	27.8	0.0774	0.0789	0.1789	0.0196	0.0351	09:07:47	Yes



Pb



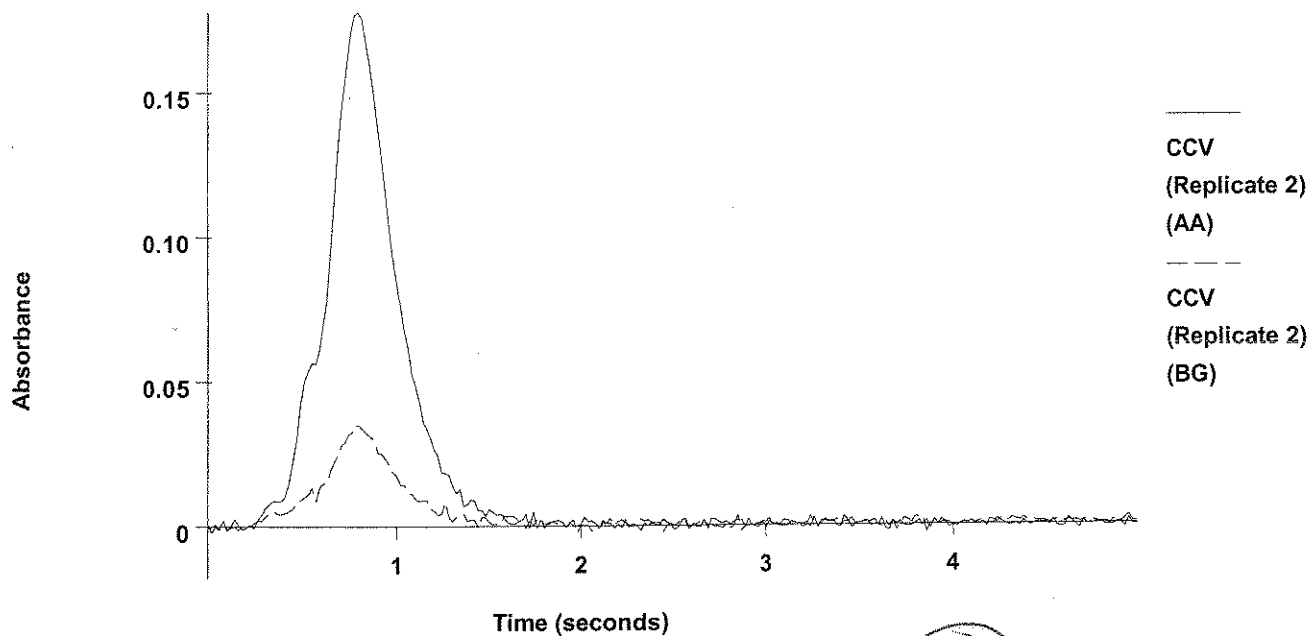
Mean: 28.0 28.0 0.0779  
 SD : 0.26 0.26 0.0007  
 %RSD: 0.92 0.92 0.90  
 QC failed, value greater than upper limit for Pb.

1125

=====  
 Element: Pb Seq. No.: 342 AS Loc.: 126 Date: 06/27/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 141, 5 from 146, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	28.0	28.0	0.0780	0.0795	0.1792	0.0194	0.0349	09:10:41	Yes
2	28.2	28.2	0.0785	0.0799	0.1779	0.0188	0.0352	09:13:35	Yes

Pb



Mean: 28.1 28.1 0.0782  
 SD : 0.12 0.12 0.0003  
 %RSD: 0.42 0.42 0.41

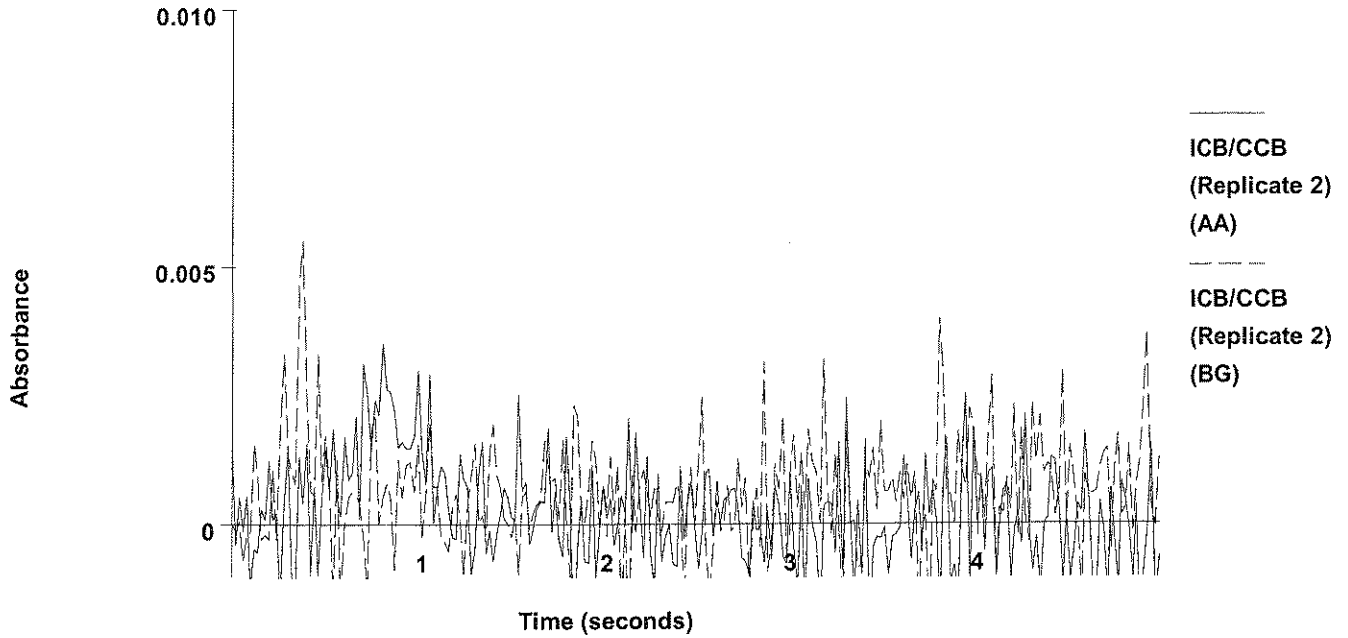
QC failed, value greater than upper limit for Pb.  
 Current analysis method being continued.

1125

=====  
 Element: Pb Seq. No.: 343 AS Loc.: 141 Date: 06/27/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 141, 5 from 146, 15 from 141  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-1.0	-1.0	-0.0009	0.0006	0.0038	0.0046	0.0039	09:16:30	Yes
2	-0.7	-0.7	-0.0002	0.0013	0.0035	0.0033	0.0055	09:19:24	Yes

Pb

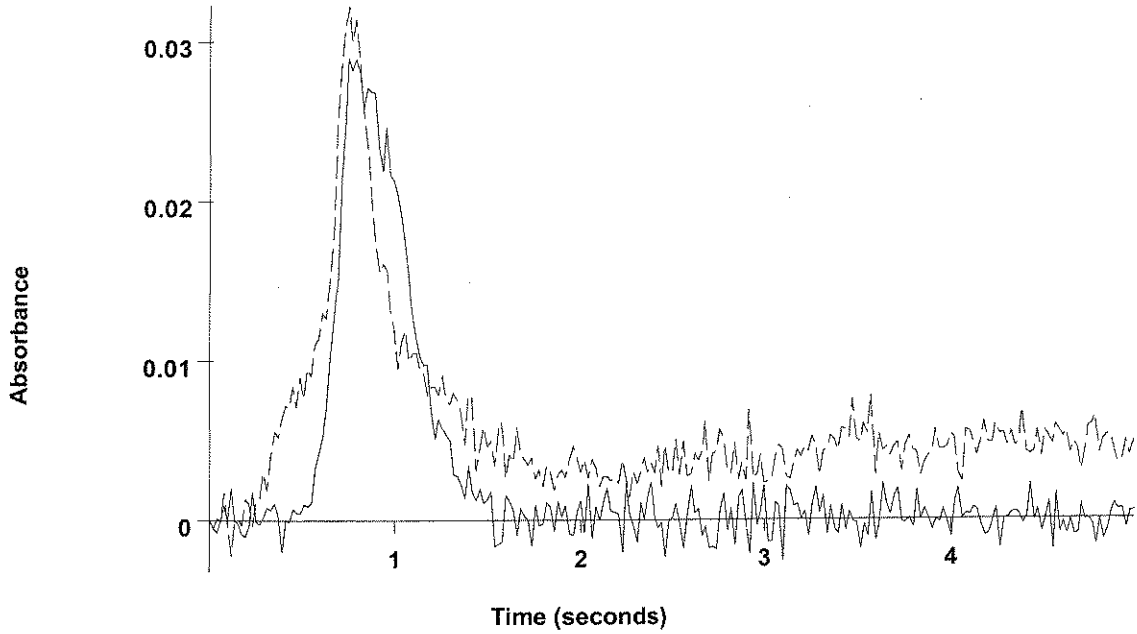


Mean: -0.8 -0.8 -0.0005  
 SD : 0.20 0.20 0.0005  
 %RSD: 23.93 23.93 100.51  
 QC value within specified limits.

=====  
 Element: Pb Seq. No.: 344 AS Loc.: 62 Date: 06/27/2006  
 Sample ID: 0606372-03  
 µL dispensed: 10 from 141, 5 from 146, 15 from 62  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.3	3.3	0.0106	0.0121	0.0272	0.0260	0.0350	09:22:15	Yes
2	3.6	3.6	0.0114	0.0129	0.0290	0.0293	0.0323	09:25:07	Yes

Pb



0606372-03  
(Replicate 2)  
(AA)

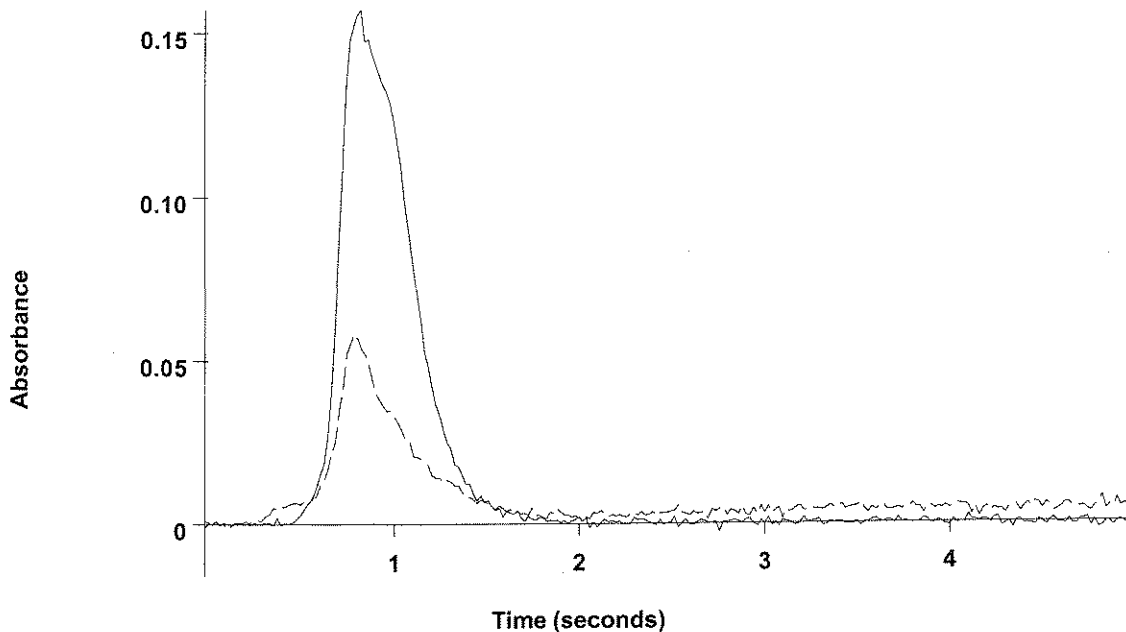
0606372-03  
(Replicate 2)  
(BG)

Mean: 3.4 3.4 0.0110  
SD : 0.21 0.21 0.0006  
%RSD: 6.09 6.09 5.13

=====  
Element: Pb Seq. No.: 345 AS Loc.: 62 Date: 06/27/2006  
Sample ID: 0606372-03  
µL dispensed: 4 from 141, 5 from 146, 6 from 131, 15 from 62  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.0	26.0	0.0727	0.0741	0.1585	0.0406	0.0591	09:28:08	Yes
2	24.4	24.4	0.0681	0.0696	0.1571	0.0390	0.0584	09:31:09	Yes

Pb



0606372-03  
(Replicate 2)  
(AA)

0606372-03  
(Replicate 2)  
(BG)

Mean: 25.2 25.2 0.0704  
SD : 1.17 1.17 0.0032  
%RSD: 4.65 4.65 4.54

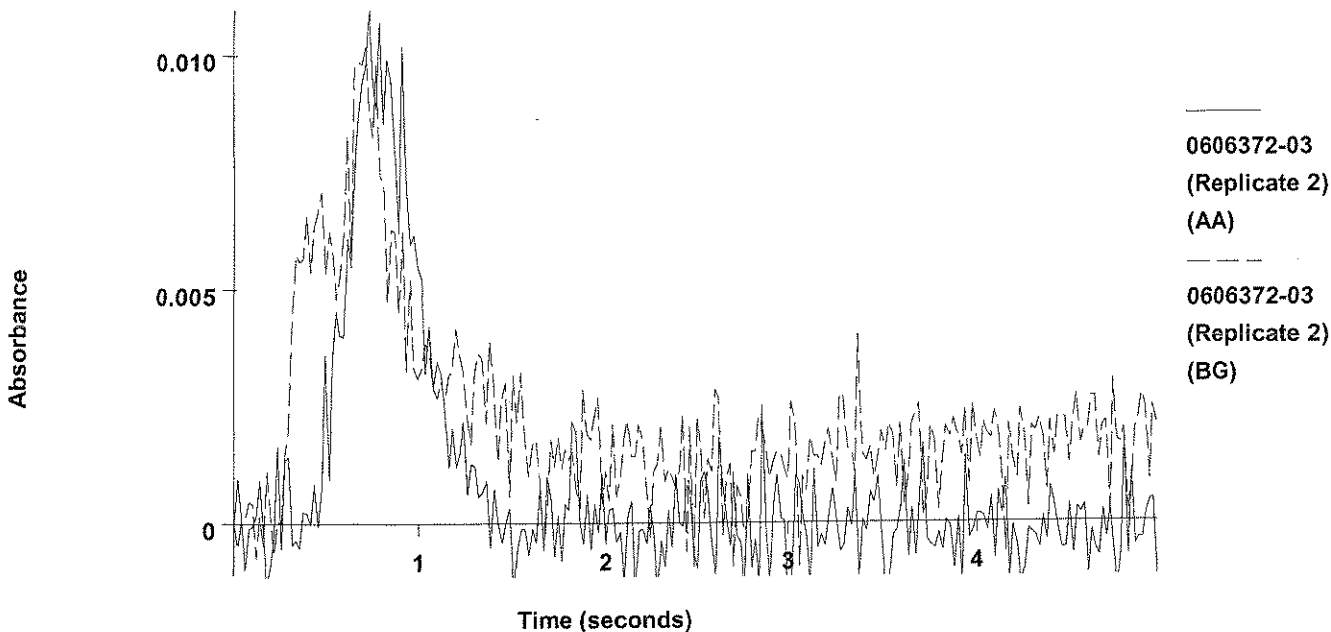
*high*

Recovery for Pb = 126.0 %, greater than upper limit 115 %

=====  
Element: Pb Seq. No.: 346 AS Loc.: 62 Date: 06/27/2006  
Sample ID: 0606372-03  
µL dispensed: 20 from 141, 5 from 146, 5 from 62

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.3	0.4	0.0028	0.0044	0.0113	0.0114	0.0104	09:34:02	Yes
2	1.2	0.4	0.0028	0.0043	0.0110	0.0113	0.0102	09:36:54	Yes

Pb

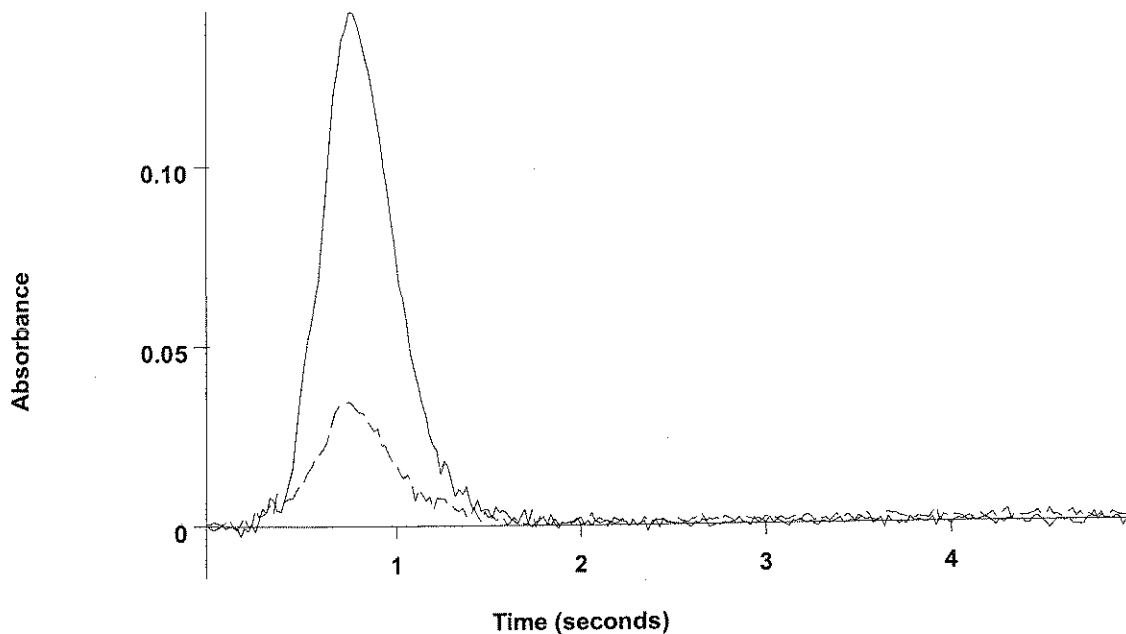


Mean: 1.2 0.4 0.0029  
 SD : 0.07 0.02 0.0001  
 %RSD: 6.00 6.00 2.36

=====  
 Element: Pb Seq. No.: 347 AS Loc: 62 Date: 06/27/2006  
 Sample ID: 0606372-03  
 µL dispensed: 14 from 141, 5 from 146, 6 from 131, 5 from 62  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	70.6	23.5	0.0658	0.0673	0.1321	0.0247	0.0321	09:39:55	Yes
2	71.2	23.7	0.0664	0.0679	0.1433	0.0225	0.0346	09:42:56	Yes

Pb



0606372-03  
(Replicate 2)  
(AA)

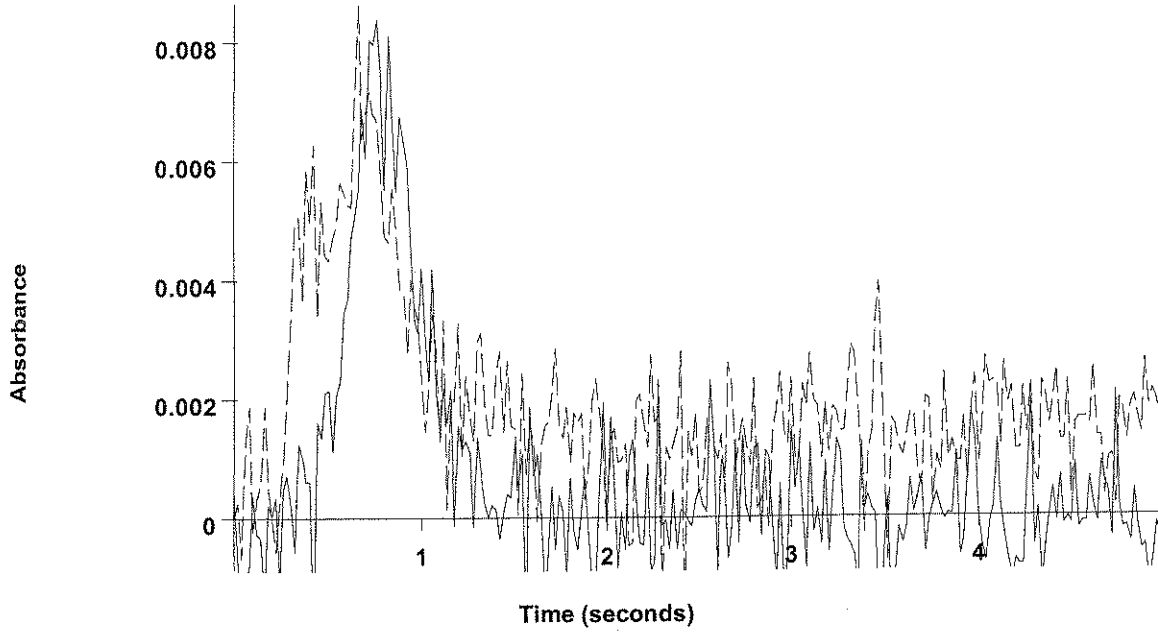
0606372-03  
(Replicate 2)  
(BG)

Mean: 70.9 23.6 0.0661  
 SD : 0.45 0.15 0.0004  
 %RSD: 0.63 0.63 0.61  
 Recovery for Pb = 118.1 %, greater than upper limit 115 %

=====  
 Element: Pb Seq. No.: 348 AS Loc.: 22 Date: 06/27/2006  
 Sample ID: 0606372-03  
 µL dispensed: 22 from 141, 5 from 146, 3 from 62  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.3	0.1	0.0019	0.0034	0.0084	0.0109	0.0075	09:45:48	Yes
2	0.7	0.1	0.0021	0.0036	0.0084	0.0099	0.0087	09:48:39	Yes

Pb



0606372-03  
(Replicate 2)  
(AA)

0606372-03  
(Replicate 2)  
(BG)

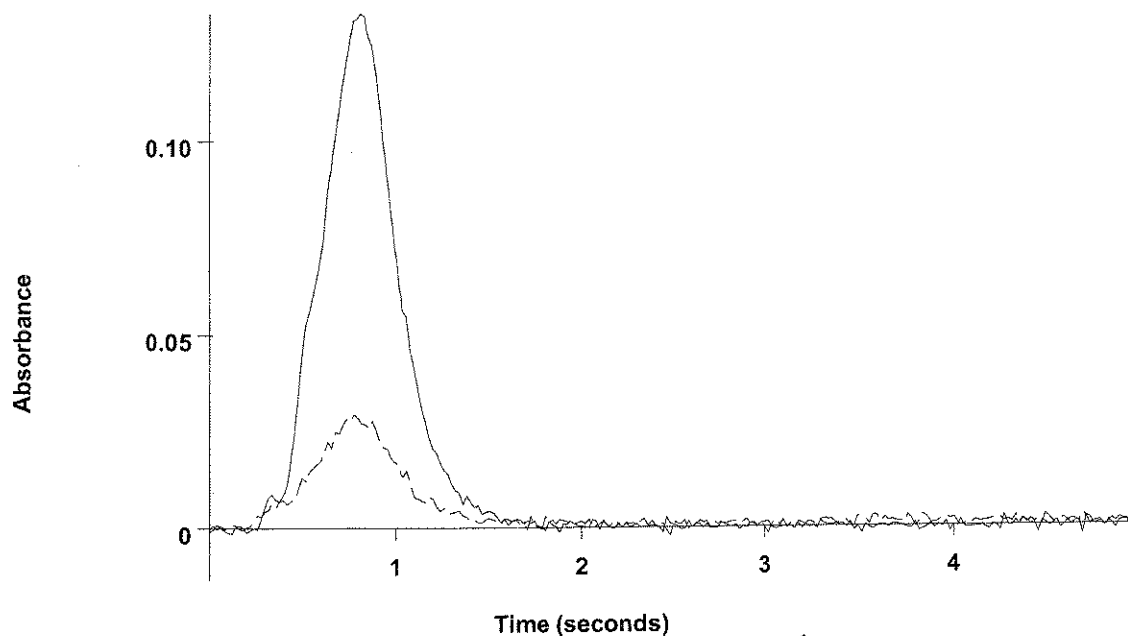
Mean:           0.5           0.1           0.0020  
SD :            0.31           0.06           0.0002  
%RSD:          57.80          57.80          8.29

=====  
Element: Pb   Seq. No.: 349   AS Loc.: 62   Date: 06/27/2006  
Sample ID: 0606372-03  
µL dispensed: 16 from 141, 5 from 146, 6 from 131, 3 from 62  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	107.5	21.5	0.0603	0.0618	0.1334	0.0206	0.0315	09:51:40	Yes
2	113.5	22.7	0.0636	0.0651	0.1328	0.0200	0.0294	09:54:41	Yes



Pb



0606372-03  
(Replicate 2)  
(AA)

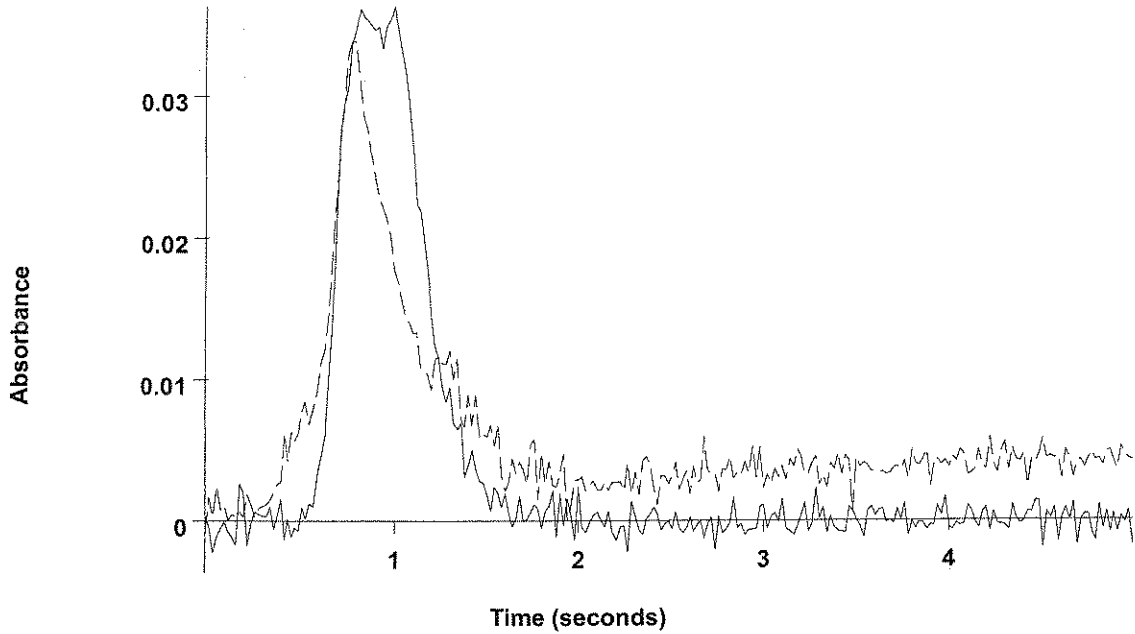
0606372-03  
(Replicate 2)  
(BG)

Mean: 110.5 22.1 0.0619  
 SD : 4.22 0.84 0.0023  
 %RSD: 3.82 3.82 3.71  
 Recovery for Pb = 110.5 % within 85 % to 115 %

=====  
 Element: Pb Seq. No.: 350 AS Loc.: 63 Date: 06/27/2006  
 Sample ID: bf62302-dup1  
 µL dispensed: 10 from 141, 5 from 146, 15 from 63  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	13.2	13.2	0.0377	0.0392	0.0454	0.0326	0.0382	09:57:35	Yes
2	5.6	5.6	0.0170	0.0185	0.0363	0.0295	0.0338	10:00:29	Yes

Pb



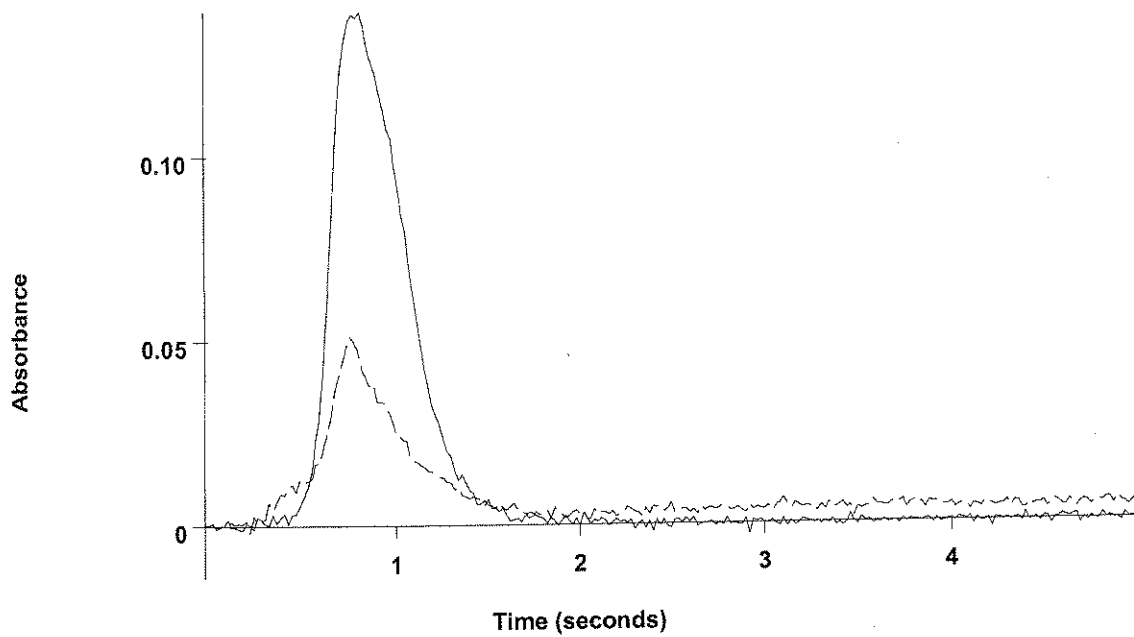
Mean:	9.4	9.4	0.0274
SD :	5.37	5.37	0.0146
%RSD:	57.12	57.12	53.51

*Return high RSD*

=====  
 Element: Pb    Seq. No.: 351    AS Loc.: 64    Date: 06/27/2006  
 Sample ID: bf62302-ms2  
 µL dispensed: 10 from 141, 5 from 146, 15 from 64  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	22.4	22.4	0.0628	0.0643	0.1308	0.0363	0.0506	10:03:21	Yes
2	22.7	22.7	0.0635	0.0650	0.1395	0.0384	0.0512	10:06:15	Yes

Pb



bf62302-ms2  
(Replicate 2)  
(AA)

bf62302-ms2  
(Replicate 2)  
(BG)

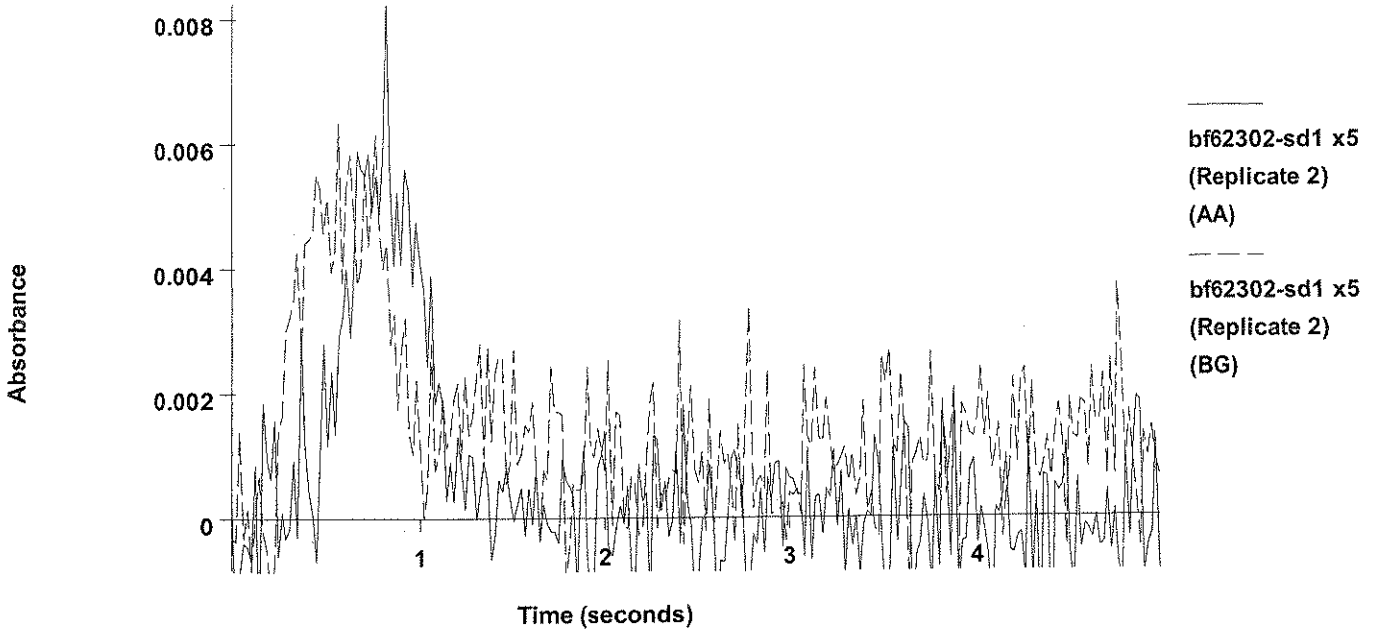
Mean: 22.5 22.5 0.0632  
SD : 0.19 0.19 0.0005  
%RSD: 0.84 0.84 0.82

1135

=====  
Element: Pb Seq. No.: 352 AS Loc.: 65 Date: 06/27/2006  
Sample ID: bf62302-sd1 x5  
µL dispensed: 10 from 141, 5 from 146, 15 from 65  
-----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	0.0014	0.0028	0.0062	0.0074	0.0068	10:09:07	Yes
2	0.0	0.0	0.0016	0.0031	0.0082	0.0074	0.0064	10:12:00	Yes

Pb



Mean: -0.1 -0.1 0.0015  
 SD : 0.07 0.07 0.0002  
 %RSD: 81.07 81.07 12.57

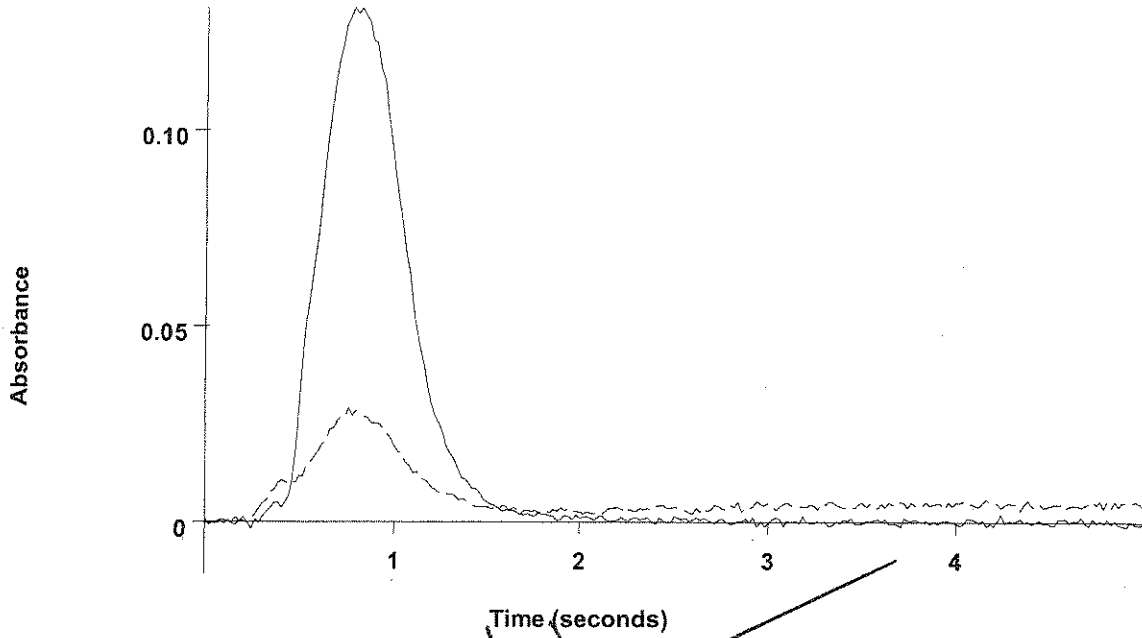
*Handwritten mark*

=====  
 Element: Pb Seq. No.: 353 AS Loc.: 66 Date: 06/27/2006  
 Sample ID: 0606375-01  
 µL dispensed: 10 from 141, 5 from 146, 15 from 66  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.3	20.3	0.0571	0.0586	0.1242	0.1034	0.0664	10:14:53	Yes
2	21.1	21.1	0.0592	0.0607	0.1240	0.0968	0.0645	10:17:47	Yes

*Handwritten 'U' and 'A' over the table data*

Pb



0606407-02  
(Replicate 2)  
(AA)

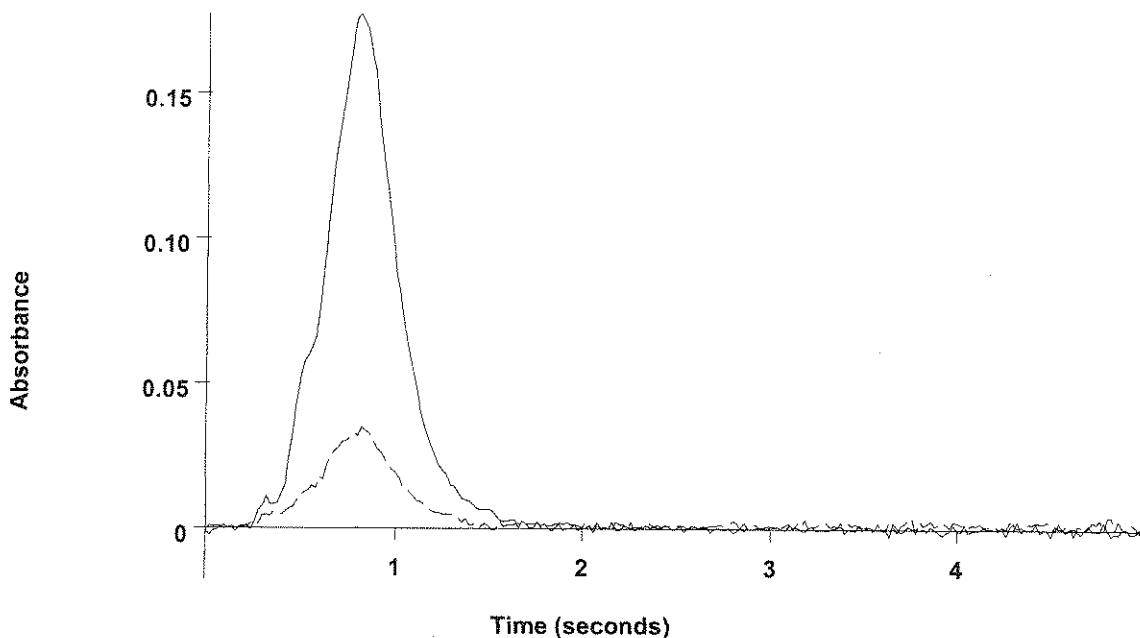
0606407-02  
(Replicate 2)  
(BG)

Mean: 125.0 25.0 0.0699  
 SD : 2.69 0.54 0.0015  
 %RSD: 2.15 2.15 2.10  
 Recovery for Pb = 125.0 %, greater than upper limit 115 %

=====  
 Element: Pb Seq. No.: 365 AS Loc.: 126 Date: 06/27/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 141, 5 from 146, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	28.0	28.0	0.0780	0.0794	0.1669	0.0204	0.0336	11:24:54	Yes
2	29.0	29.0	0.0809	0.0823	0.1774	0.0211	0.0348	11:27:47	Yes

Pb



CCV  
(Replicate 2)  
(AA)  
CCV  
(Replicate 2)  
(BG)

Mean: 28.5 28.5 0.0794  
SD : 0.75 0.75 0.0020  
%RSD: 2.63 2.63 2.57

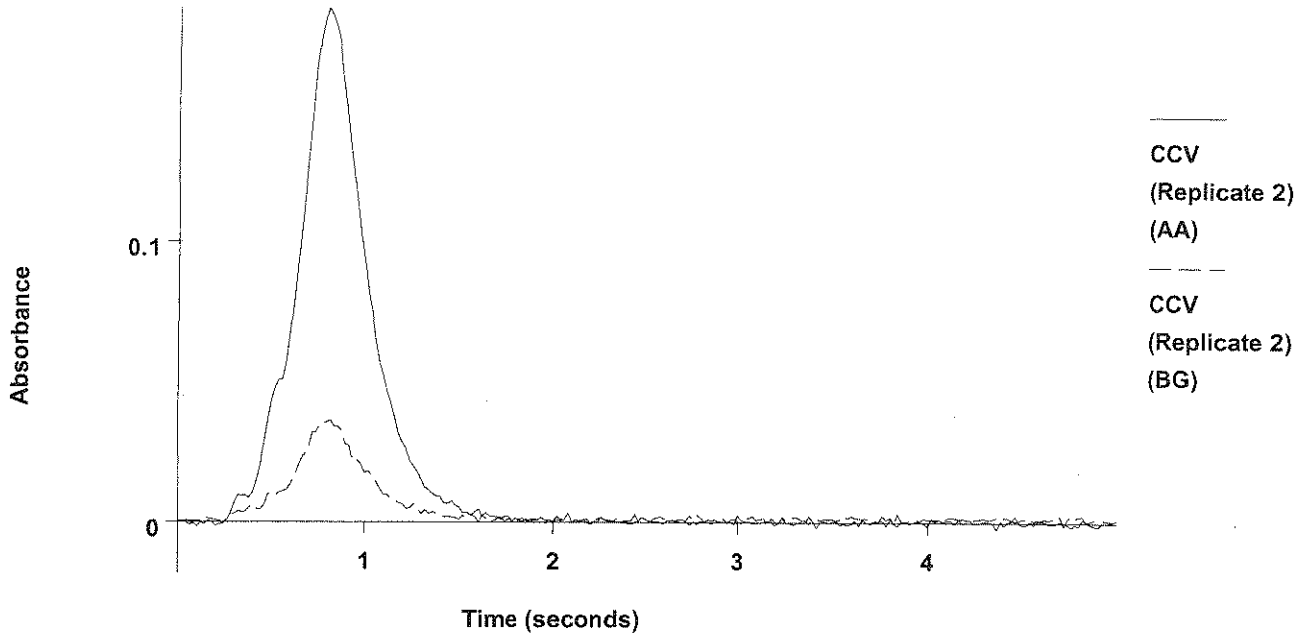
1145

QC failed, value greater than upper limit for Pb.

=====  
Element: Pb Seq. No.: 366 AS Loc.: 126 Date: 06/27/2006  
Sample ID: CCV  
µL dispensed: 10 from 141, 5 from 146, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	29.2	29.2	0.0813	0.0827	0.1749	0.0215	0.0340	11:30:41	Yes
2	28.3	28.3	0.0790	0.0805	0.1830	0.0204	0.0362	11:33:34	Yes

Pb



Mean: 28.8 28.8 0.0801  
 SD : 0.59 0.59 0.0016  
 %RSD: 2.05 2.05 2.00

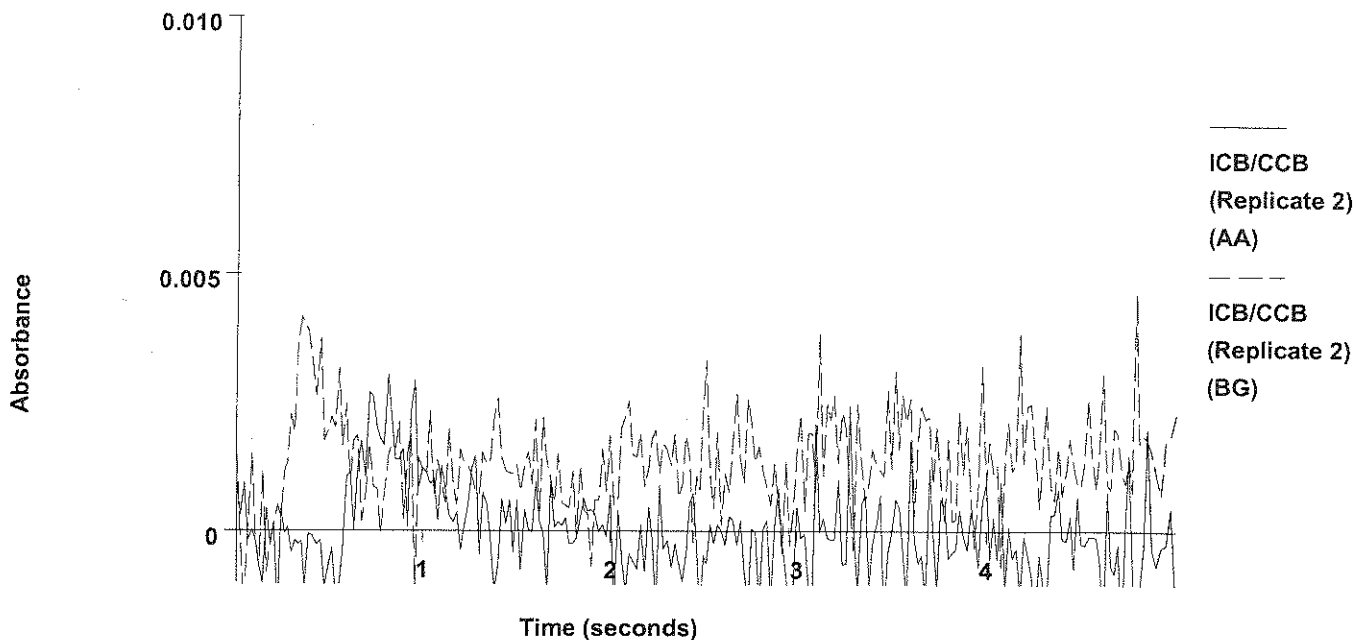
1158

QC failed, value greater than upper limit for Pb.  
 Current analysis method being continued.

=====  
 Element: Pb Seq. No.: 367 AS Loc.: 141 Date: 06/27/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 141, 5 from 146, 15 from 141  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0003	0.0012	0.0033	0.0052	0.0038	11:36:28	Yes
2	-1.2	-1.2	-0.0015	0.0000	0.0030	0.0069	0.0046	11:39:22	Yes

Pb

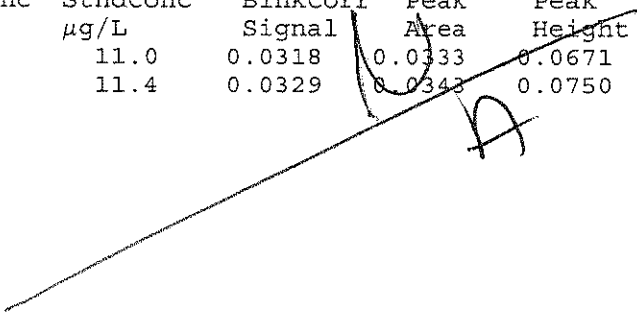


Mean:        -1.0        -1.0        -0.0009  
 SD :         0.30        0.30        0.0008  
 %RSD:       31.01       31.01       91.76  
 QC value within specified limits.



=====  
 Element: Pb    Seq. No.: 368    AS Loc.: 72    Date: 06/27/2006  
 Sample ID: bf62403-dup1  
 µL dispensed: 10 from 141, 5 from 146, 15 from 72  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	11.0	11.0	0.0318	0.0333	0.0671	0.0689	0.0269	11:42:14	Yes
2	11.4	11.4	0.0329	0.0343	0.0750	0.0717	0.0277	11:45:06	Yes





Method Name: Sb 5  
 Method Description: Sb 5  
 Element: Sb

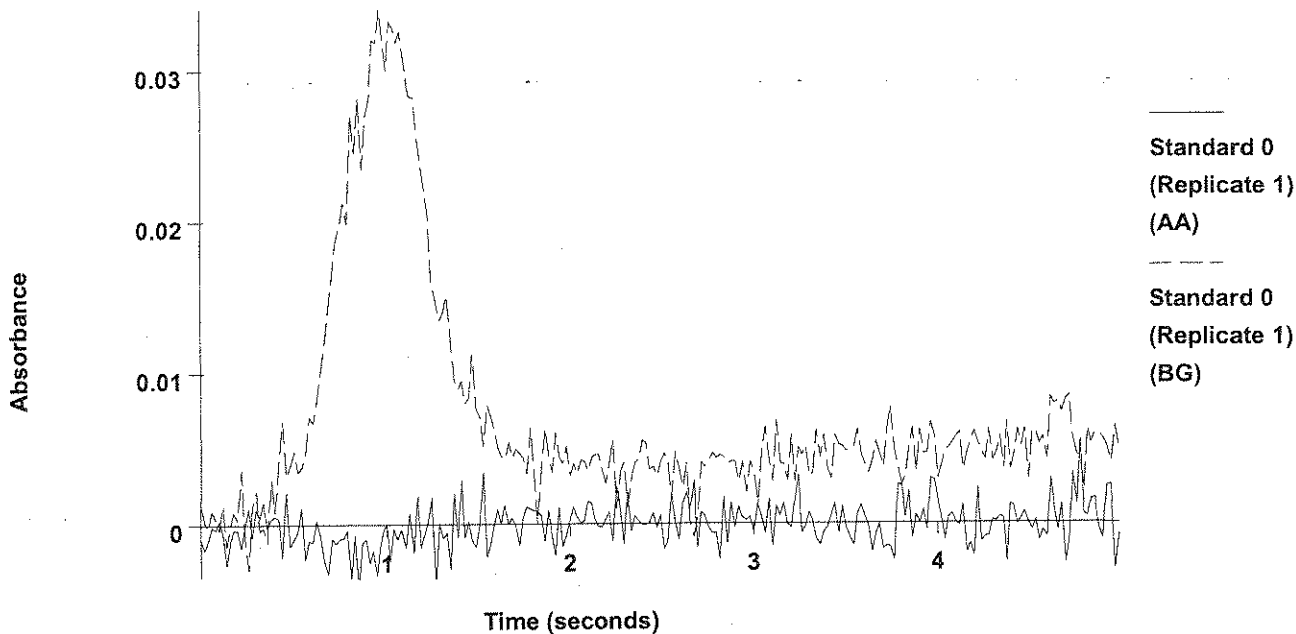
Date: 06/28/2006  
 Technique: Furnace  
 Calibration Type:  
 Sb, Calc. Intercept : Linear  
 Wavelength: 217.6 nm  
 Energy: 100  
 Slit Width: 0.7  
 Lamp Current: 20 mA  
 Sample Info Name: 062606YA.SIF

Results Data Set Name: 062606yad

Element: Sb Seq. No.: 413 AS Loc.: 148 Date: 06/28/2006  
 Sample ID: Standard 0  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc	StndConc	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			-0.0004	-0.0004	0.0055	0.0354	0.0341	04:02:18	Yes

Sb



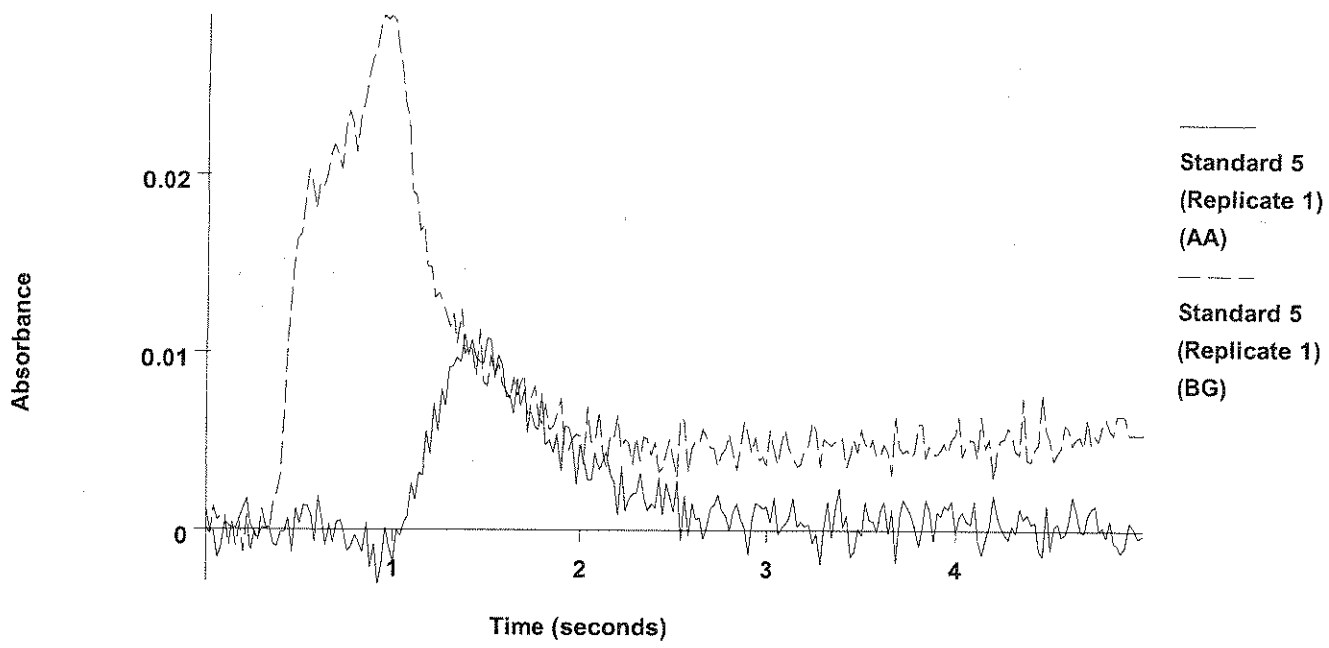
2			-0.0003	-0.0003	0.0043	0.0336	0.0333	04:05:08	Yes
Mean:			-0.0004						
SD :			0.0000						
%RSD:			9.27						

Auto-zero performed.

Element: Sb Seq. No.: 414 AS Loc.: 121 Date: 06/28/2006  
 Sample ID: Standard 5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 121

Repl #	SampleConc	StndConc	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0089	0.0086	0.0111	0.0385	0.0290	04:08:23	Yes

Sb



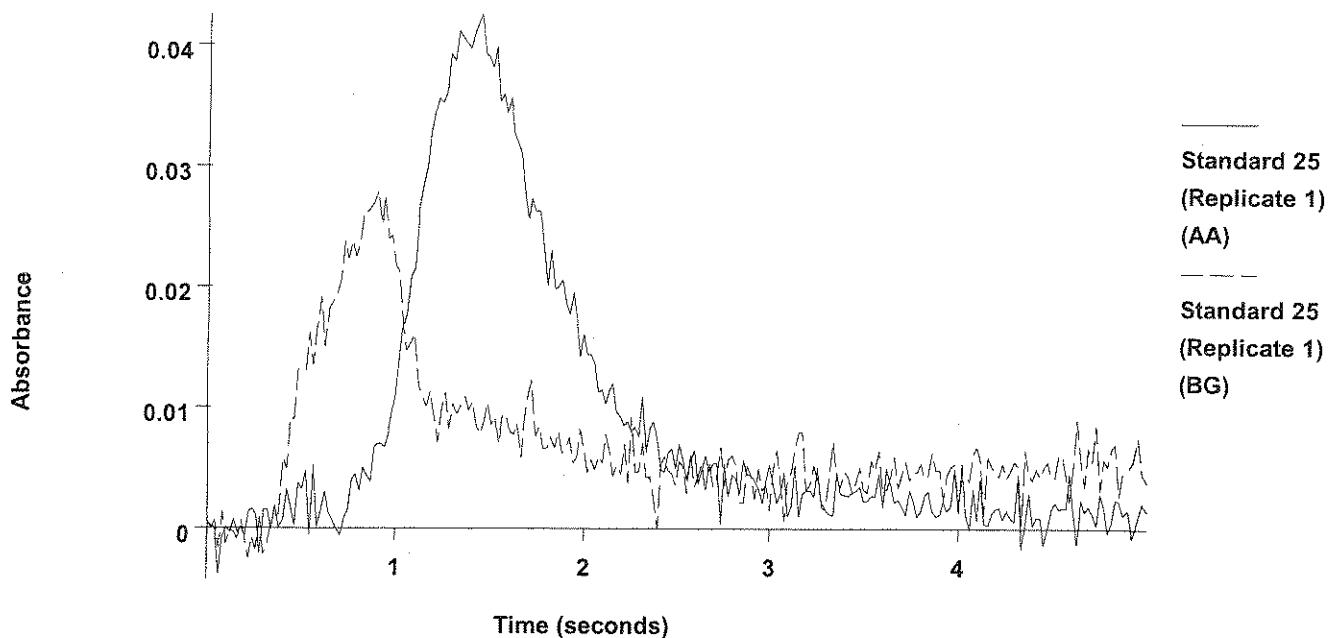
2 0.0088 0.0085 0.0132 0.0342 0.0281 04:11:13 Yes  
 Mean: 0.0089  
 SD : 0.0001  
 %RSD: 1.00  
 [Sb] Standard number 1 applied. [5.0]  
 Correlation Coefficient: 1.00000 Slope: 0.00178  
 Intercept : 0.00000

=====  
 Element: Sb Seq. No.: 415 AS Loc.: 124 Date: 06/28/2006  
 Sample ID: Standard 10  
 µL dispensed: 10 from 148, 5 from 147, 15 from 124  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0180	0.0176	0.0194	0.0349	0.0290	04:14:31	Yes



Sb

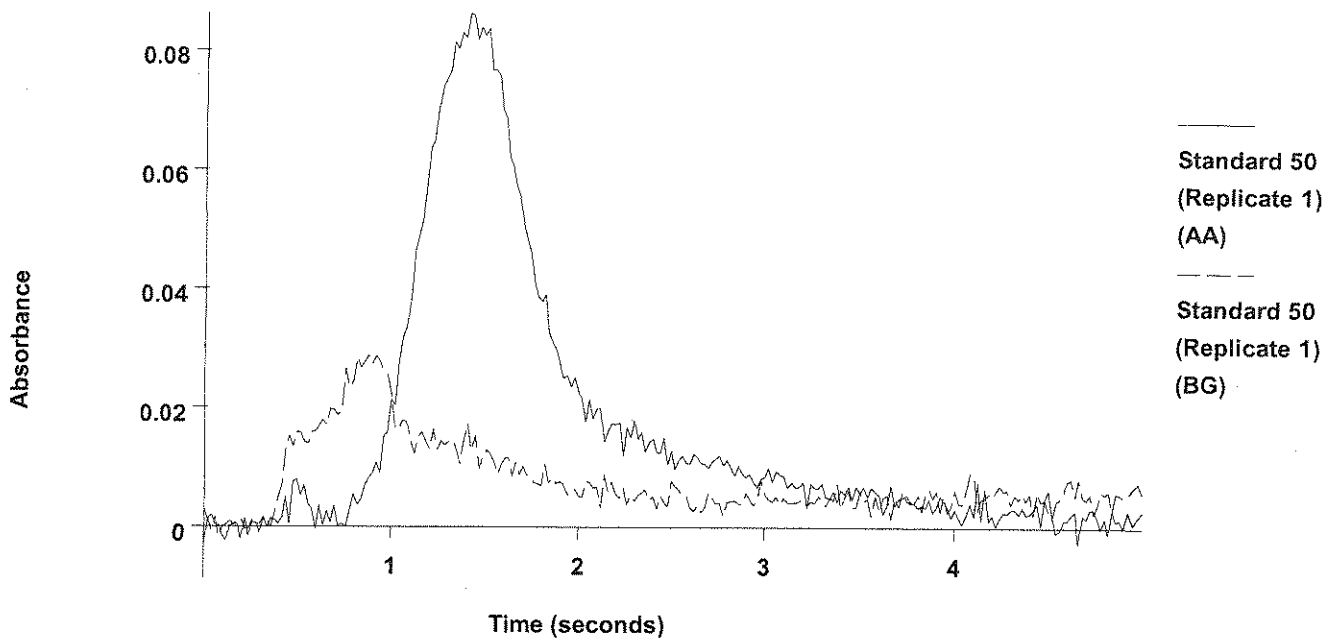


2 0.0431 0.0428 0.0398 0.0401 0.0312 04:23:35 Yes  
 Mean: 0.0430  
 SD : 0.0002  
 %RSD: 0.54  
 [Sb] Standard number 3 applied. [25.0]  
 Correlation Coefficient: 0.99993 Slope: 0.00171  
 Intercept : 0.00022

=====  
 Element: Sb Seq. No.: 417 AS Loc.: 129 Date: 06/28/2006  
 Sample ID: Standard 50  
 µL dispensed: 10 from 148, 5 from 147, 15 from 129  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0795	0.0792	0.0862	0.0389	0.0287	04:26:53	Yes

Sb

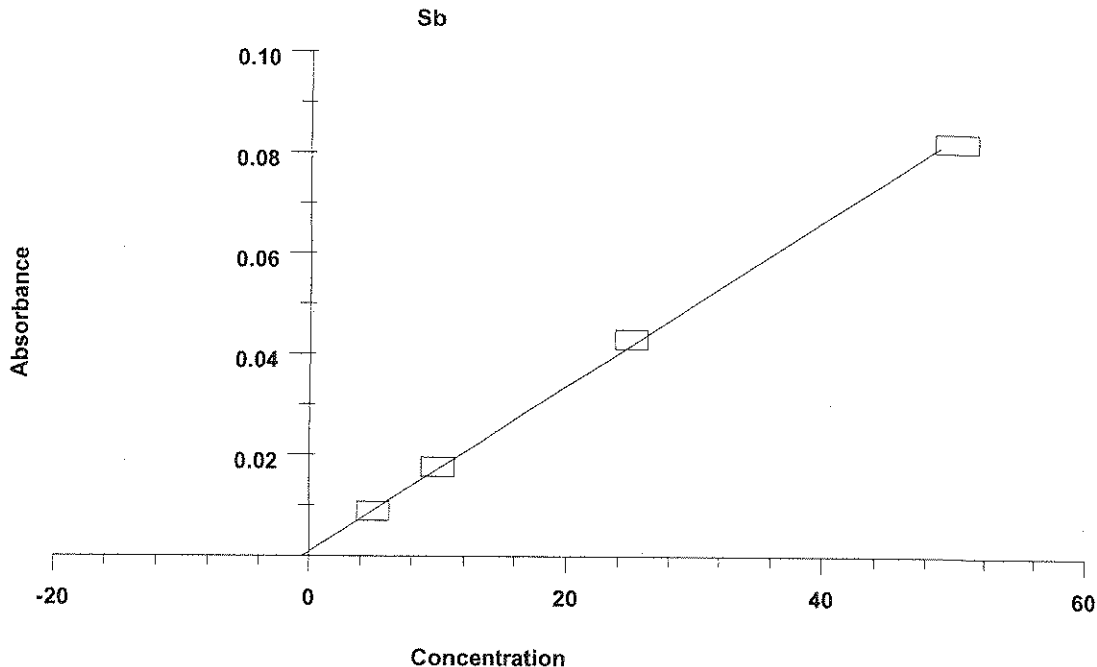


2 0.0846 0.0843 0.0866 0.0391 0.0305 04:29:44 Yes  
 Mean: 0.0821  
 SD : 0.0036  
 %RSD: 4.40  
 [Sb] Standard number 4 applied. [50.0]  
 Correlation Coefficient: 0.99969 Slope: 0.00164  
 Intercept : 0.00082

-----  
 Calibration data for Sb

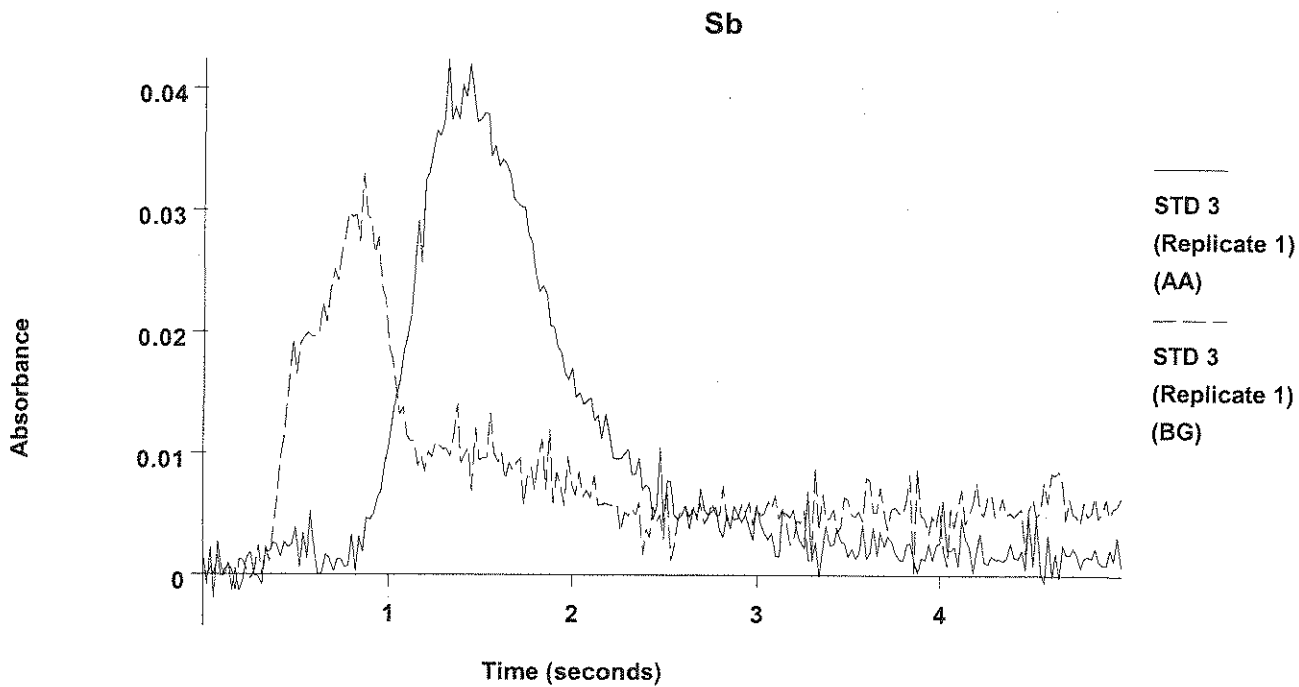
Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	-0.0004	-	-	-	-
Standard 5	0.0089	5.0	4.9	0.00	1.00
Standard 10	0.0176	10.0	10.3	0.00	2.88
Standard 25	0.0430	25.0	25.7	0.00	0.54
Standard 50	0.0821	50.0	49.6	0.00	4.40
Correlation Coefficient: 0.99969		Slope:	0.00164	Intercept:	0.0008

-----  
 Cal good  
 JP 6/28/06



=====  
 Element: Sb    Seq. No.: 418    AS Loc.: 126    Date: 06/28/2006  
 Sample ID: STD 3  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.2	26.2	0.0438	0.0434	0.0424	0.0398	0.0329	04:32:41	Yes

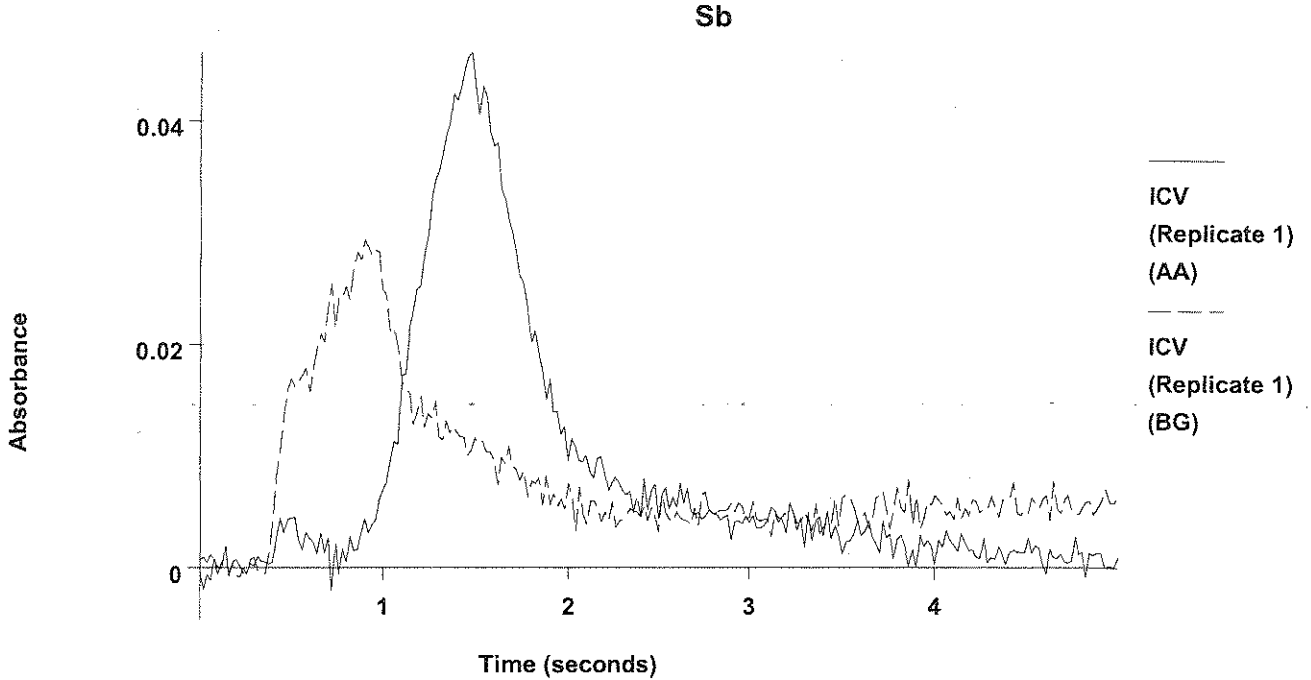


2	25.8	25.8	0.0430	0.0427	0.0429	0.0411	0.0312	04:35:33	Yes
---	------	------	--------	--------	--------	--------	--------	----------	-----

Mean: 26.0 26.0 0.0434  
 SD : 0.33 0.33 0.0005  
 %RSD: 1.29 1.29 1.26  
 QC value within specified limits.

=====  
 Element: Sb Seq. No.: 419 AS Loc.: 134 Date: 06/28/2006  
 Sample ID: ICV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 134  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.4	24.4	0.0407	0.0404	0.0461	0.0397	0.0293	04:38:24	Yes



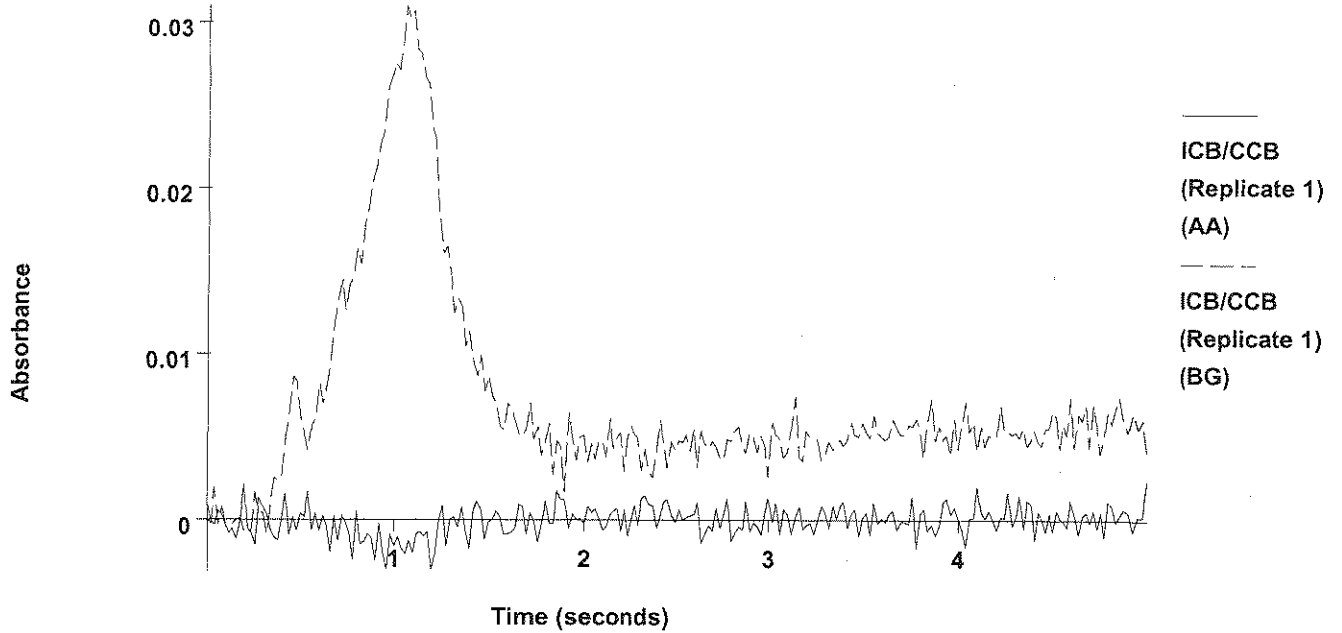
2	24.3	24.3	0.0407	0.0403	0.0479	0.0376	0.0282	04:41:13	Yes
Mean:	24.3	24.3	0.0407						
SD :	0.02	0.02	0.0000						
%RSD:	0.10	0.10	0.09						

QC value within specified limits.

=====  
 Element: Sb Seq. No.: 420 AS Loc.: 148 Date: 06/28/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	0.0001	-0.0003	0.0024	0.0354	0.0310	04:44:02	Yes

Sb



2	-1.1	-1.1	-0.0010	-0.0013	0.0022	0.0308	0.0278	04:46:51	Yes
Mean:	-0.8	-0.8	-0.0004						
SD :	0.44	0.44	0.0007						
%RSD:	56.8	56.8	160.89						

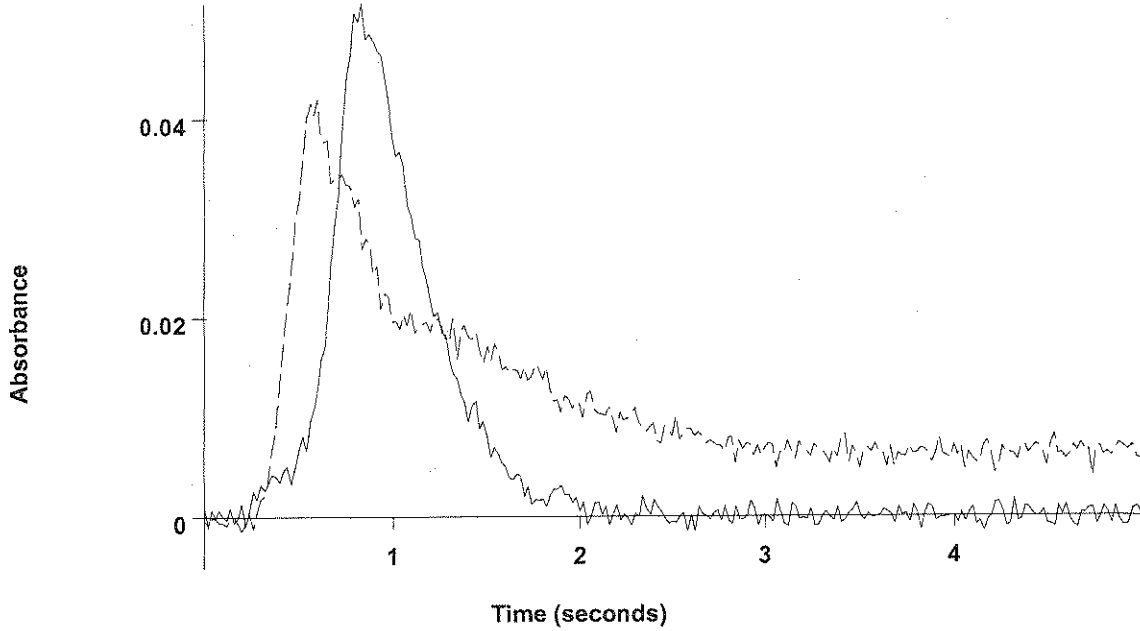
QC value within specified limits.

=====  
 Element: Sb    Seq. No.: 421    AS Loc.: 1    Date: 06/28/2006  
 Sample ID: 0606341-02 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 1  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0010	0.0006	0.0025	0.0318	0.0311	04:49:41	Yes



Sb



bf62301-ms3  
(Replicate 1)  
(AA)

bf62301-ms3  
(Replicate 1)  
(BG)

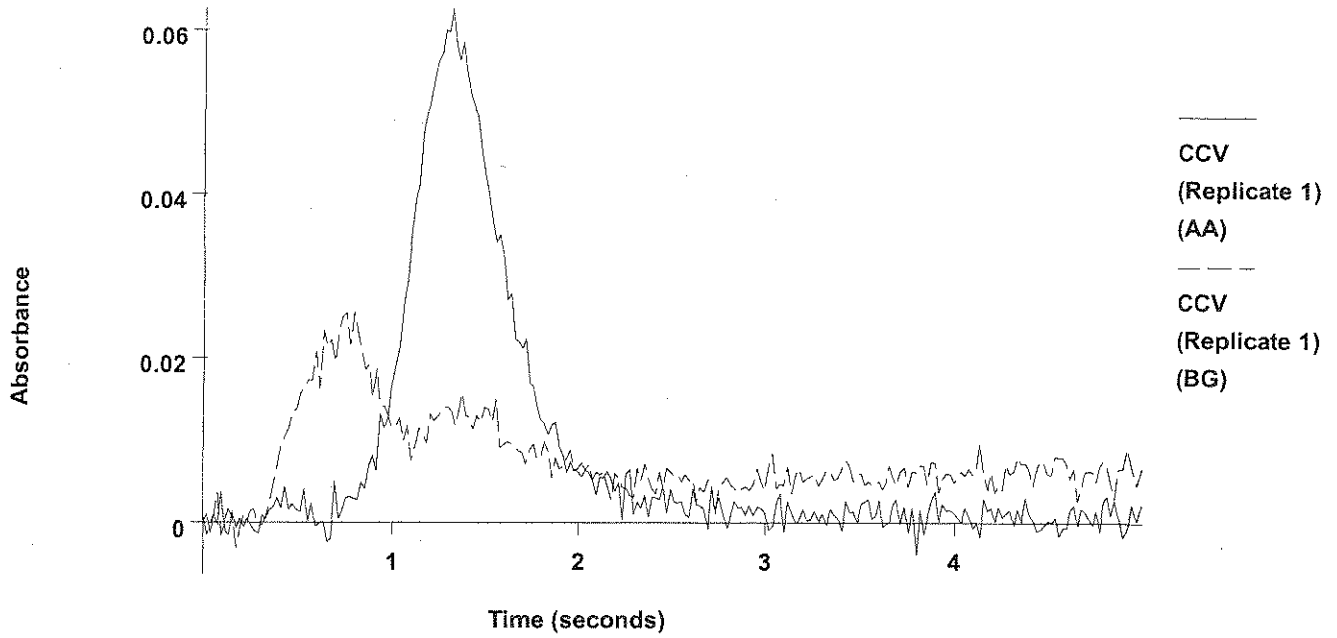
2	18.1	18.1	0.0305	0.0302	0.0542	0.0554	0.0418	11:15:14	Yes
Mean:	17.9	17.9	0.0302						
SD :	0.28	0.28	0.0005						
%RSD:	1.54	1.54	1.50						

90%

=====  
 Element: Sb    Seq. No.: 489    AS Loc.: 126    Date: 06/28/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.2	24.2	0.0405	0.0401	0.0626	0.0383	0.0255	11:18:05	Yes

Sb



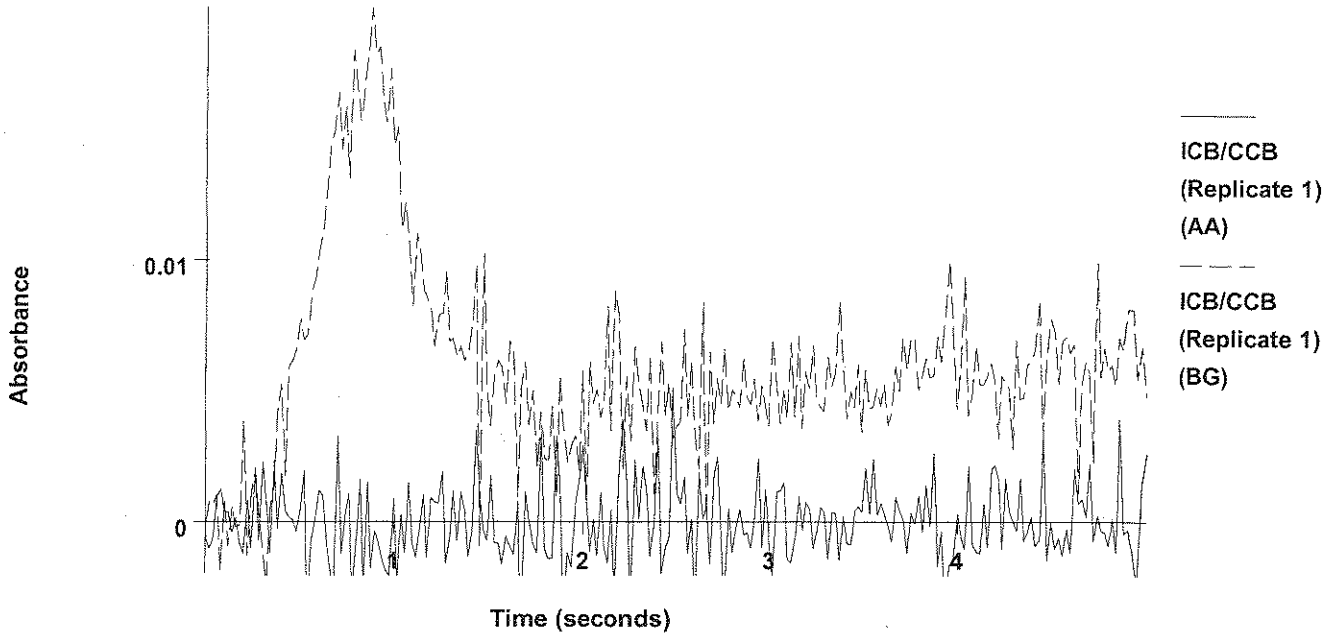
2	26.2	26.2	0.0438	0.0434	0.0600	0.0361	0.0259	11:20:59	Yes
Mean:	25.2	25.2	0.0421						
SD :	1.42	1.42	0.0023						
%RSD:	5.61	5.61	5.51	✓					

QC value within specified limits.

=====  
 Element: Sb    Seq. No.: 490    AS Loc.: 148    Date: 06/28/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	0.0004	0.0001	0.0051	0.0303	0.0197	11:23:50	Yes

Sb



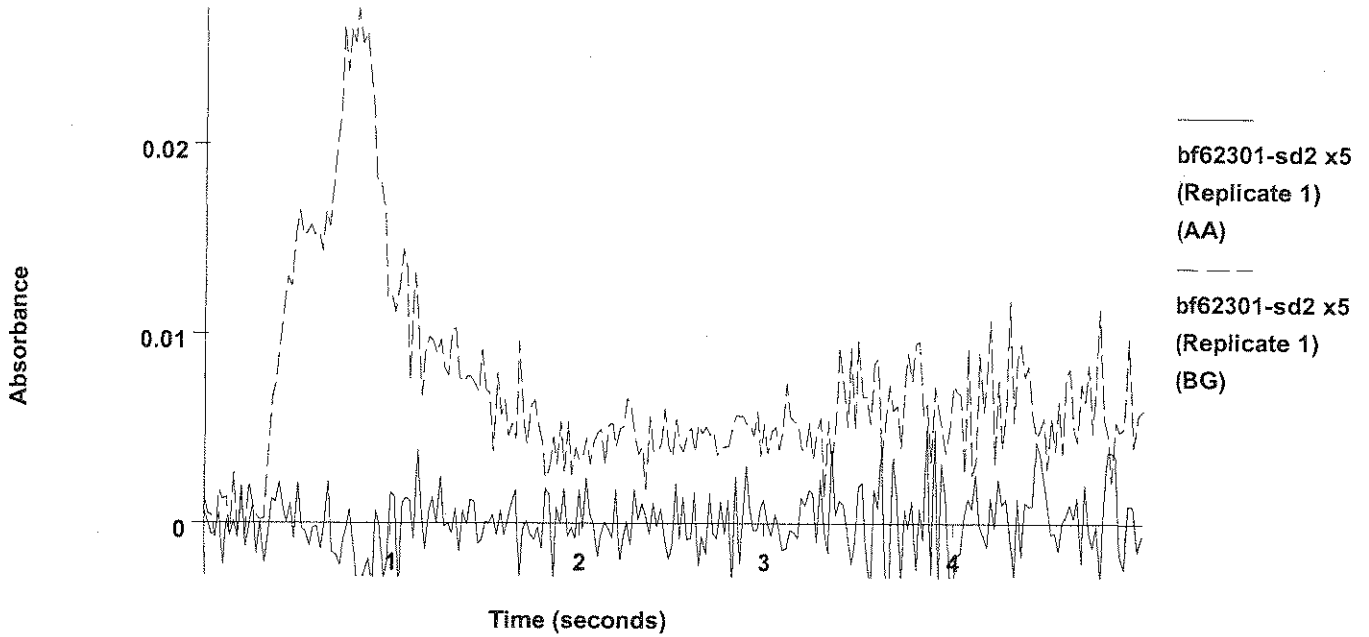
2	0.0	0.0	0.0008	0.0004	0.0034	0.0305	0.0181	11:26:39	Yes
Mean:	-0.1	-0.1	0.0006						
SD :	0.16	0.16	0.0003						
%RSD:	119	119	42.66	✓					

QC value within specified limits.

=====  
 Element: Sb    Seq. No.: 491    AS Loc.: 53    Date: 06/28/2006  
 Sample ID: bf62301-sd2 x5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 53  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	0.0006	0.0002	0.0052	0.0356	0.0272	11:29:28	Yes

Sb



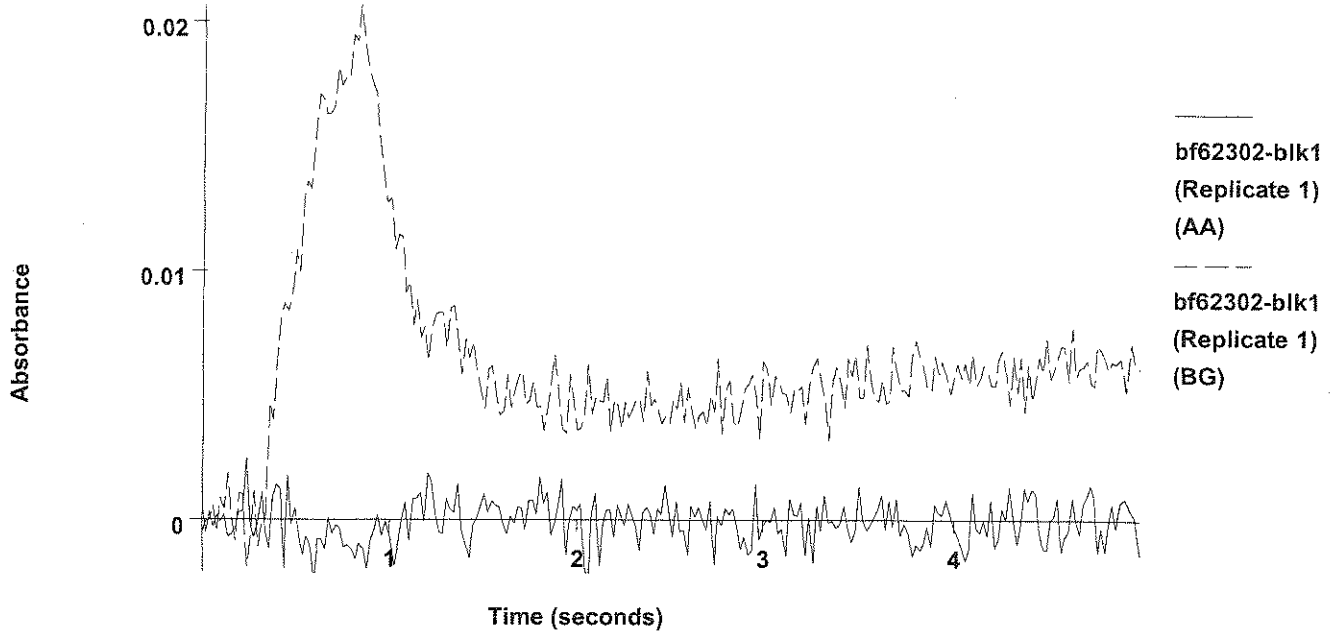
2	-0.7	-0.7	-0.0003	-0.0006	0.0022	0.0339	0.0280	11:32:20	Yes
Mean:	-0.4	-0.4	0.0002						
SD :	0.37	0.37	0.0006						
%RSD:	91.7	91.7	403.71						

*M*

=====  
 Element: Sb    Seq. No.: 492    AS Loc.: 54    Date: 06/28/2006  
 Sample ID: bf62302-blk1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 54  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0001	-0.0004	0.0025	0.0319	0.0207	11:35:09	Yes

Sb

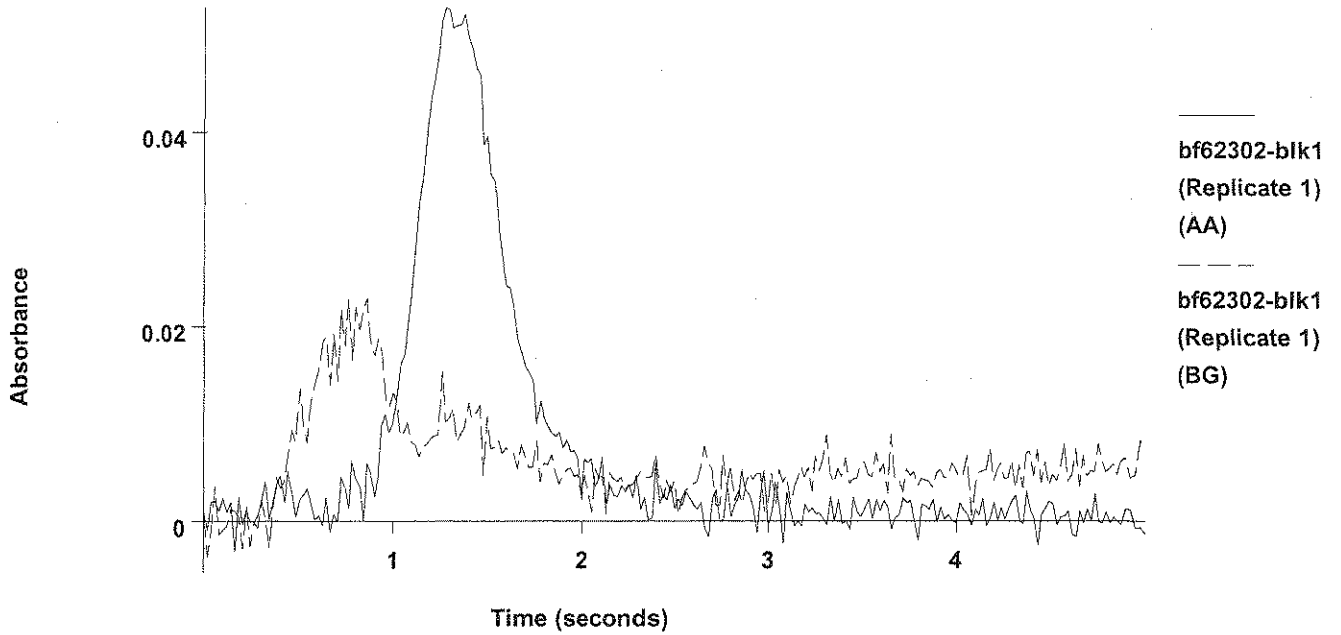


2	-0.1	-0.1	0.0007	0.0003	0.0040	0.0308	0.0218	11:37:58	Yes
Mean:	-0.3	-0.3	0.0003						
SD :	0.32	0.32	0.0005						
%RSD:	101	101	173.08						

=====  
 Element: Sb    Seq. No.: 493    AS Loc.: 54    Date: 06/28/2006  
 Sample ID: bf62302-blk1  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 54  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.6	20.6	0.0346	0.0343	0.0528	0.0311	0.0229	11:40:55	Yes

Sb



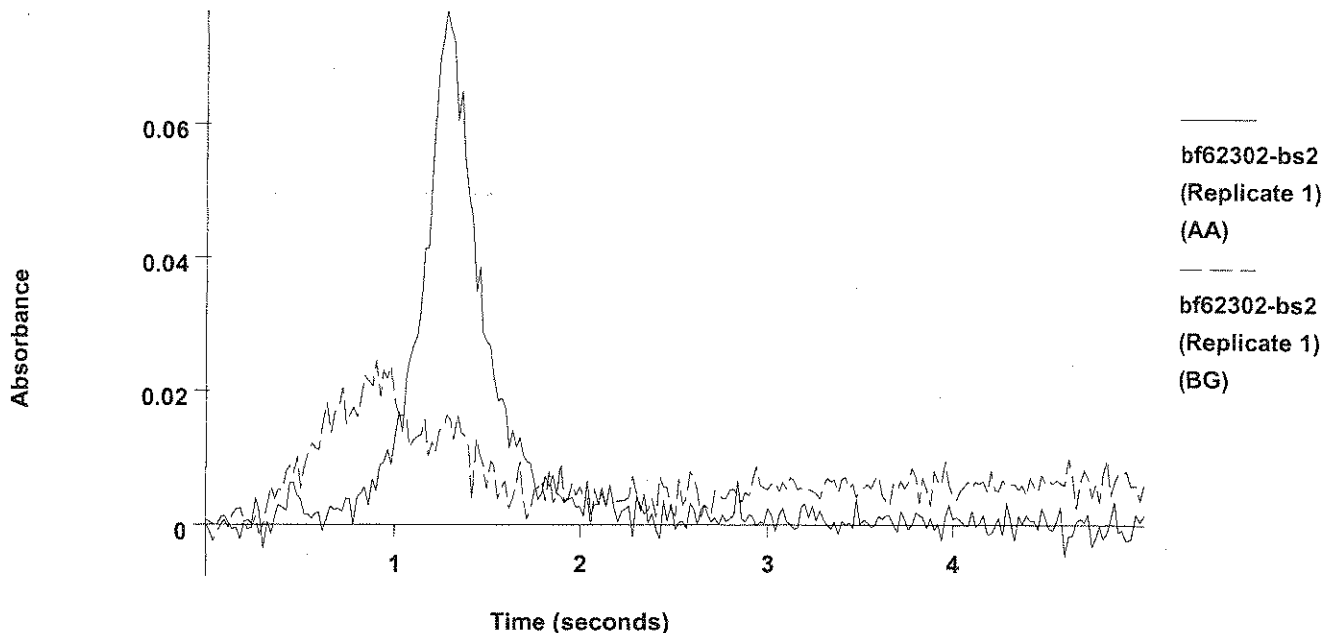
2	20.6	20.6	0.0346	0.0343	0.0546	0.0319	0.0240	11:43:51	Yes
Mean:	20.6	20.6	0.0346						
SD :	0.01	0.01	0.0000						
%RSD:	0.03	0.03	0.03						

Recovery for Sb = 103.1 % within 85 % to 115 %

=====  
 Element: Sb    Seq. No.: 494    AS Loc.: 55    Date: 06/28/2006  
 Sample ID: bf62302-bs2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 55  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.6	19.6	0.0330	0.0327	0.0769	0.0350	0.0244	11:46:40	Yes

Sb



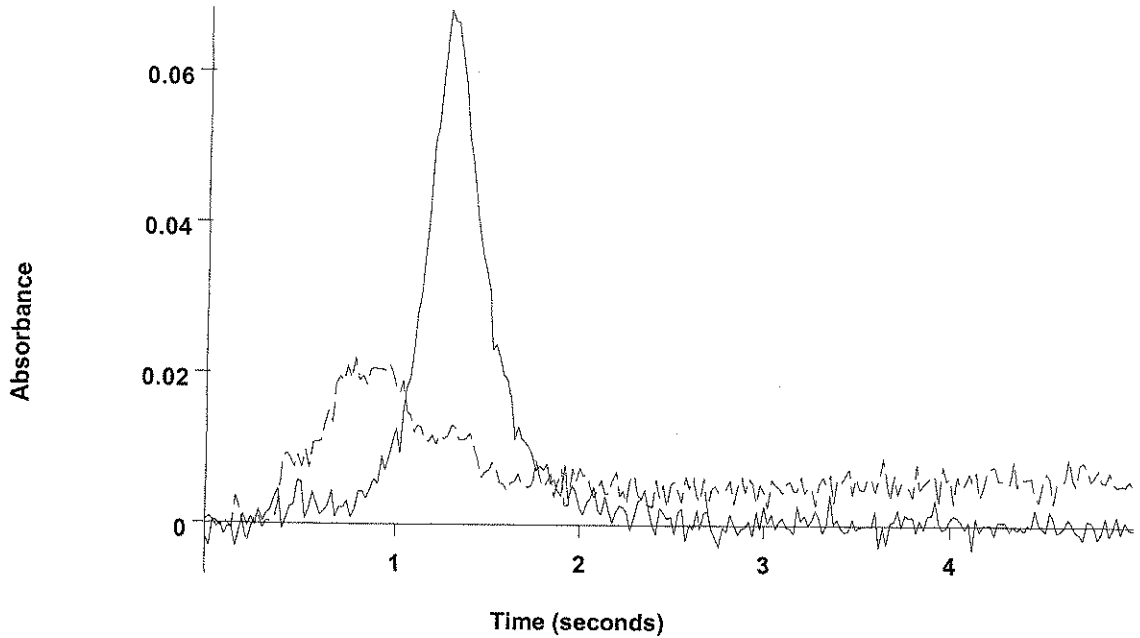
2	19.4	19.4	0.0327	0.0323	0.0613	0.0329	0.0214	11:49:29	Yes
Mean:	19.5	19.5	0.0328						
SD :	0.15	0.15	0.0002						
%RSD:	0.77	0.77	0.75						

981.

=====  
 Element: Sb    Seq. No.: 495    AS Loc.: 56    Date: 06/28/2006  
 Sample ID: bf62302-bsd2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 56  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	18.4	18.4	0.0309	0.0305	0.0684	0.0349	0.0221	11:52:19	Yes

Sb



-----  
 bf62302-bsd2  
 (Replicate 1)  
 (AA)  
 -----  
 bf62302-bsd2  
 (Replicate 1)  
 (BG)

2	18.7	18.7	0.0314	0.0311	0.0578	0.0331	0.0240	11:55:08	Yes
Mean:	18.5	18.5	0.0312						
SD :	0.23	0.23	0.0004						
%RSD:	1.23	1.23	1.19						

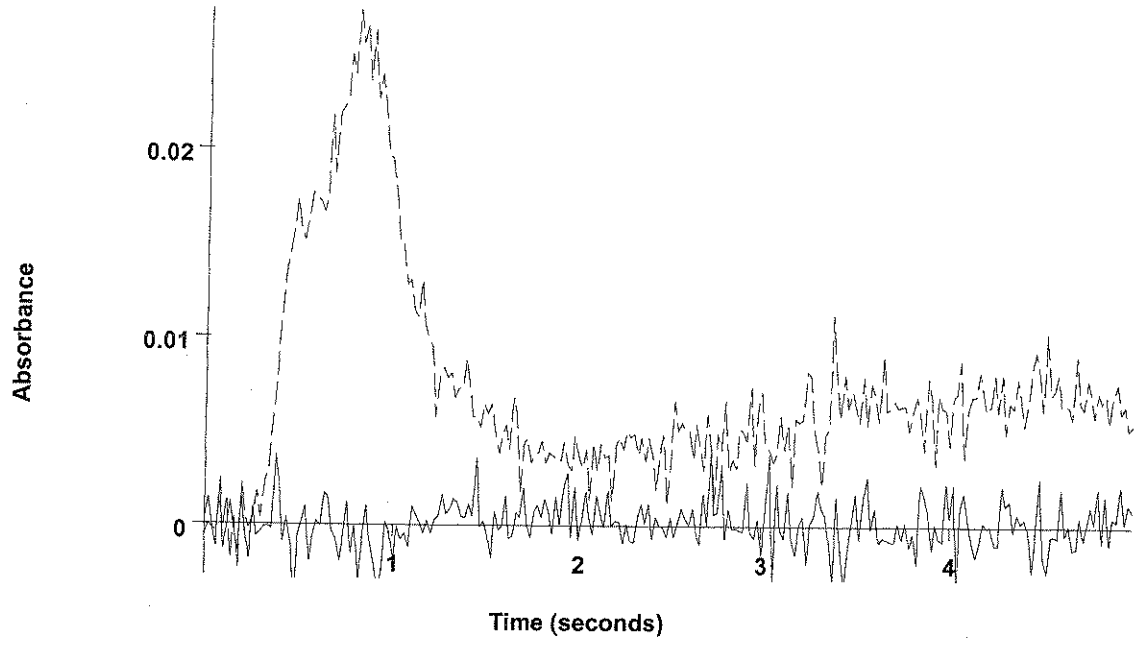
931.

=====  
 Element: Sb    Seq. No.: 496    AS Loc.: 57    Date: 06/28/2006  
 Sample ID: 0606372-01 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 57  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0009	0.0006	0.0039	0.0364	0.0274	11:57:57	Yes



Sb



0606372-01 dis  
(Replicate 1)  
(AA)

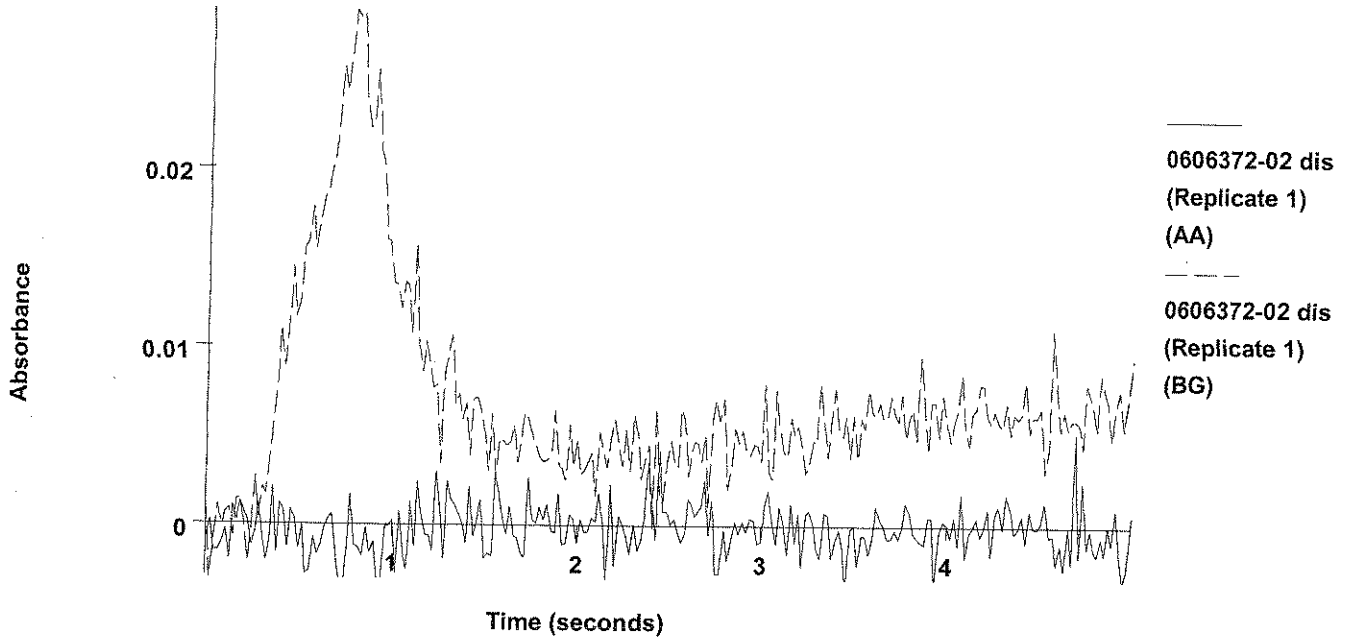
0606372-01 dis  
(Replicate 1)  
(BG)

2	0.2	0.2	0.0011	0.0007	0.0043	0.0369	0.0288	12:00:47	Yes
Mean:	0.1	0.1	0.0010						
SD :	0.06	0.06	0.0001						
%RSD:	53.3	53.3	10.17						

=====  
 Element: Sb    Seq. No.: 497    AS Loc.: 58    Date: 06/28/2006  
 Sample ID: 0606372-02 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 58  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-1.0	-1.0	-0.0008	-0.0011	0.0052	0.0354	0.0289	12:03:36	Yes

Sb



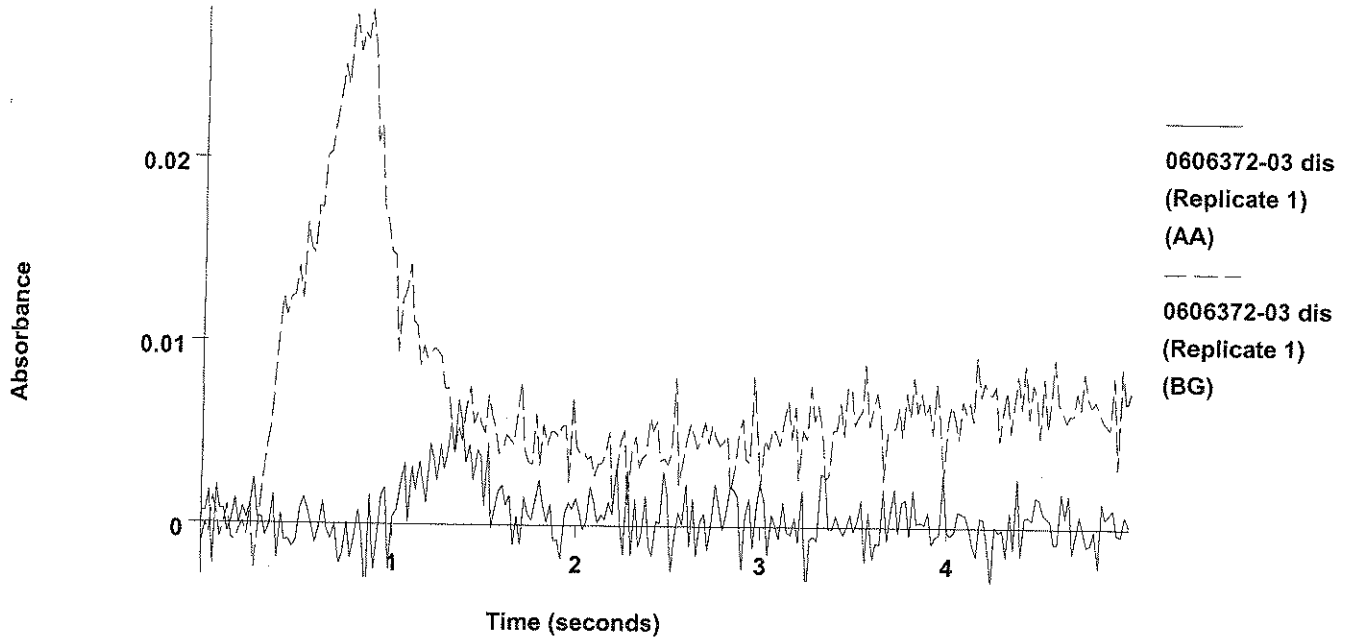
2	0.8	0.8	0.0021	0.0018	0.0045	0.0352	0.0291	12:06:26	Yes
Mean:	-0.1	-0.1	0.0007						
SD :	1.25	1.25	0.0020						
%RSD:	1370	1370	305.10						

*ND*

=====  
 Element: Sb    Seq. No.: 498    AS Loc.: 59    Date: 06/28/2006  
 Sample ID: 0606372-03 dis  
 µL dispensed: 10 from 148, 5 from 147, 15 from 59  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.4	1.4	0.0031	0.0028	0.0069	0.0356	0.0281	12:09:16	Yes

Sb



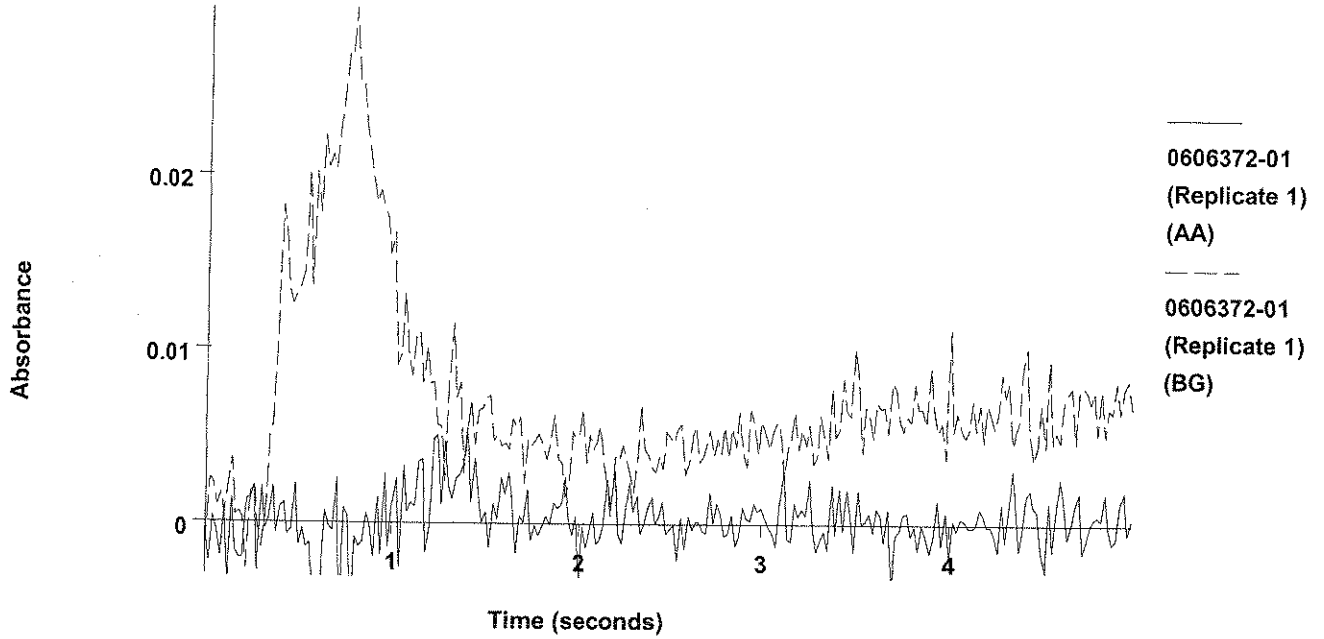
2	1.3	1.3	0.0029	0.0025	0.0058	0.0355	0.0300	12:12:05	Yes
Mean:	1.3	1.3	0.0030						
SD :	0.11	0.11	0.0002						
%RSD:	8.54	8.54	6.21						

*AD*

=====  
 Element: Sb    Seq. No.: 499    AS Loc.: 60    Date: 06/28/2006  
 Sample ID: 0606372-01  
 µL dispensed: 10 from 148, 5 from 147, 15 from 60  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0015	0.0012	0.0055	0.0359	0.0296	12:14:54	Yes

Sb

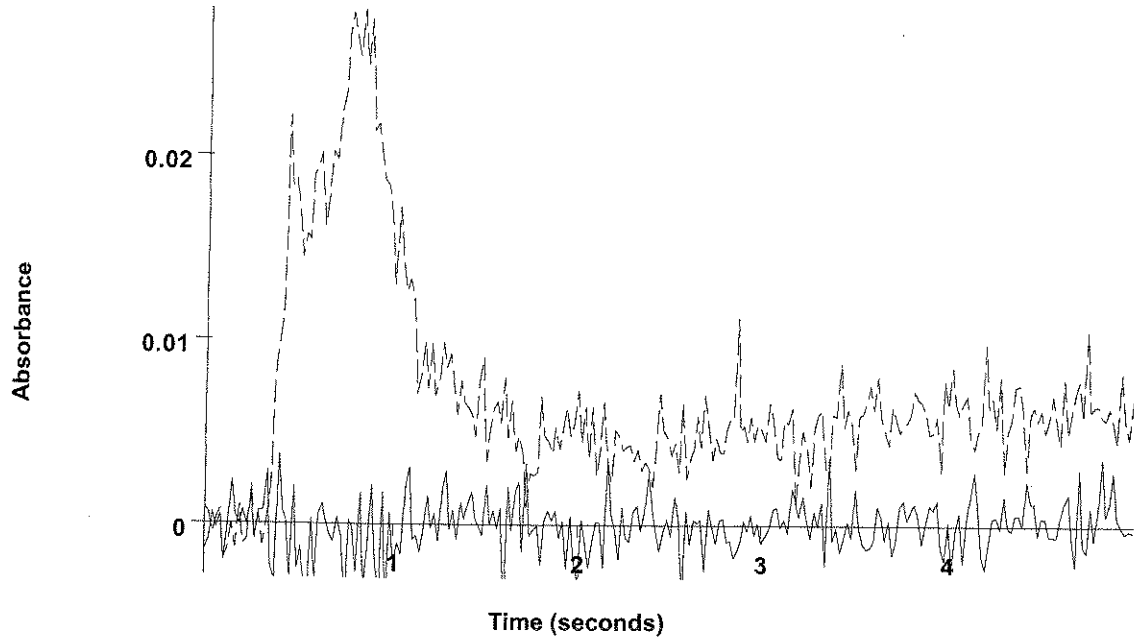


2	0.1	0.1	0.0009	0.0006	0.0044	0.0370	0.0274	12:17:43	Yes
Mean:	0.2	0.2	0.0012						
SD :	0.27	0.27	0.0004						
%RSD:	109	109	35.75						

=====  
 Element: Sb    Seq. No.: 500    AS Loc.: 61    Date: 06/28/2006  
 Sample ID: 0606372-02  
 µL dispensed: 10 from 148, 5 from 147, 15 from 61  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	0.0001	-0.0002	0.0038	0.0361	0.0280	12:20:33	Yes

Sb



-----  
 0606372-02  
 (Replicate 1)  
 (AA)  
 -----  
 0606372-02  
 (Replicate 1)  
 (BG)

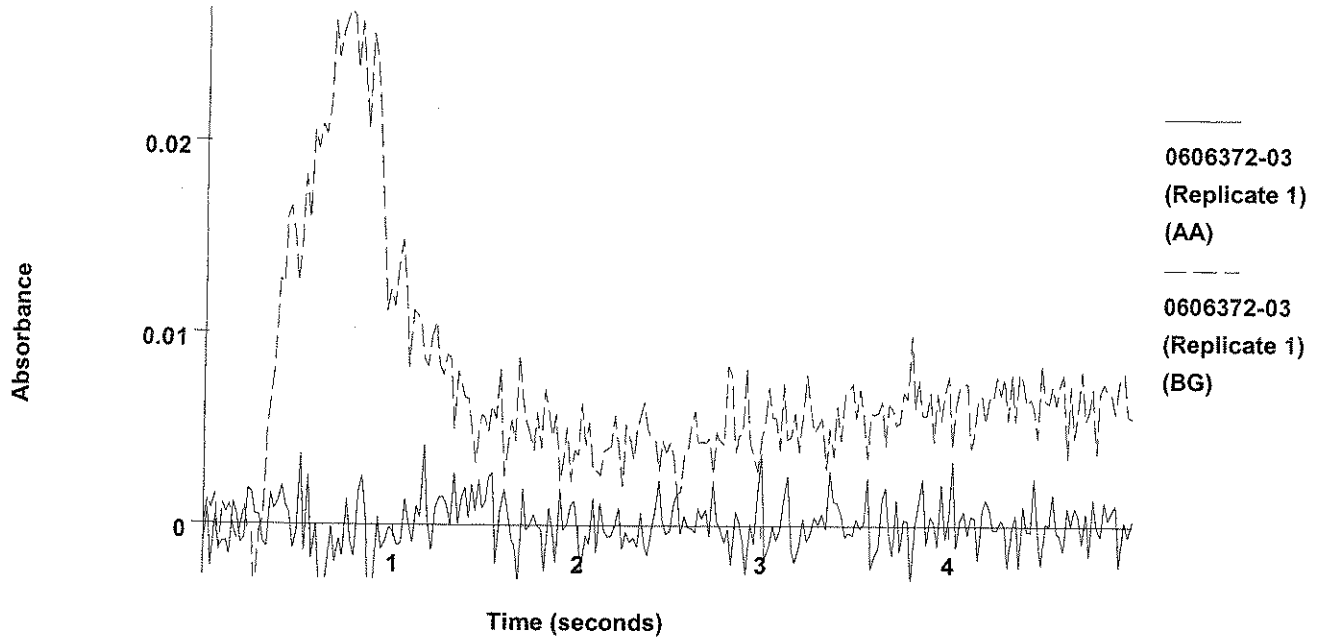
2	-0.9	-0.9	-0.0006	-0.0010	0.0068	0.0376	0.0273	12:23:22	Yes
Mean:	-0.6	-0.6	-0.0002						
SD :	0.32	0.32	0.0005						
%RSD:	49.3	49.3	219.61						

*W*

=====  
 Element: Sb    Seq. No.: 501    AS Loc.: 62    Date: 06/28/2006  
 Sample ID: 0606372-03  
 µL dispensed: 10 from 148, 5 from 147, 15 from 62  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	0.0006	0.0003	0.0042	0.0361	0.0269	12:26:12	Yes

Sb



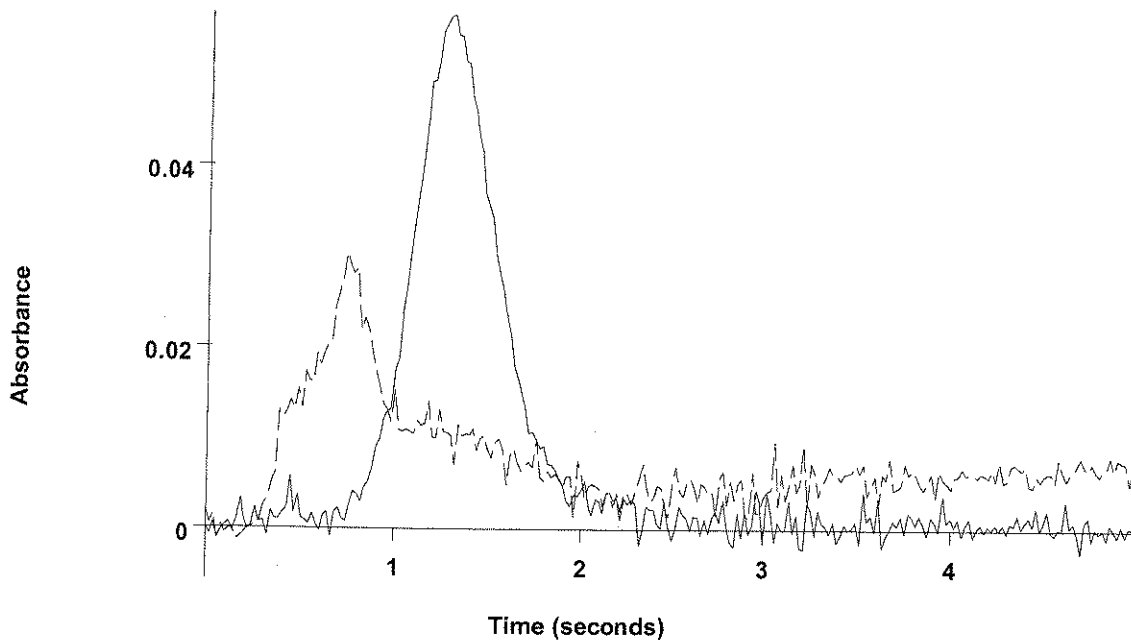
2	0.0	0.0	0.0008	0.0004	0.0041	0.0373	0.0288	12:29:03	Yes
Mean:	-0.1	-0.1	0.0007						
SD :	0.06	0.06	0.0001						
%RSD:	106	106	14.33						

10

=====  
 Element: Sb    Seq. No.: 502    AS Loc.: 62    Date: 06/28/2006  
 Sample ID: 0606372-03  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 62  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.4	20.4	0.0342	0.0338	0.0569	0.0374	0.0304	12:32:04	Yes

Sb



0606372-03  
 (Replicate 1)  
 (AA)  
 0606372-03  
 (Replicate 1)  
 (BG)

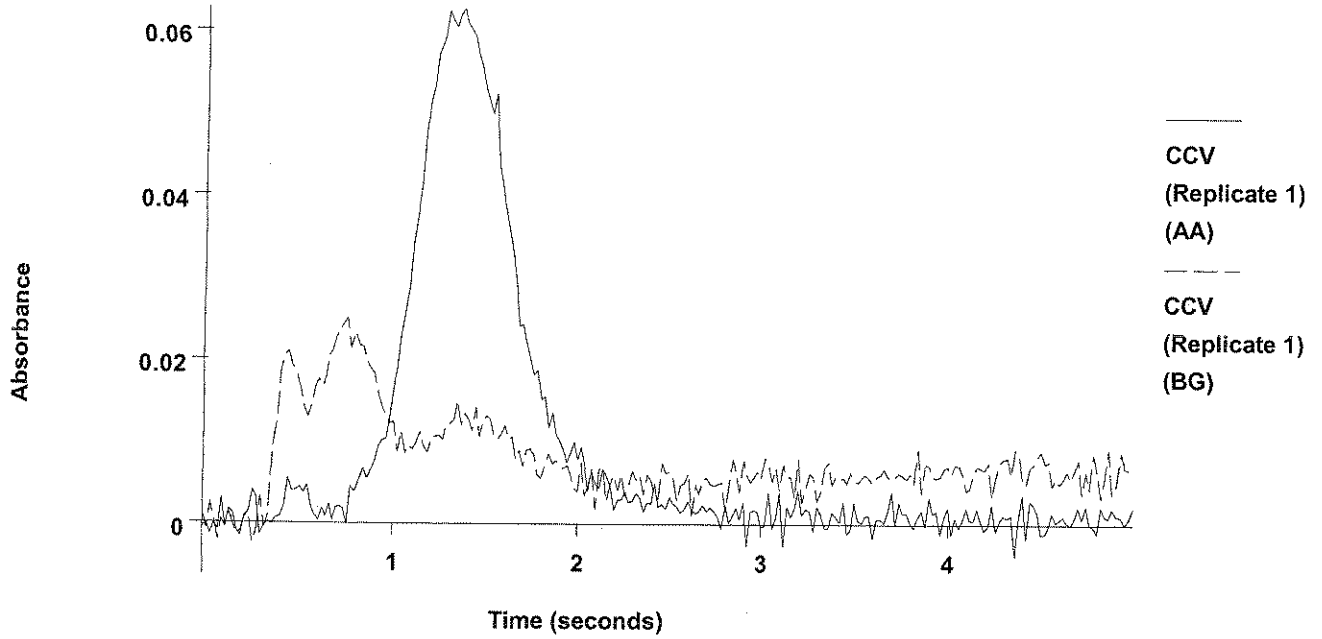
2	19.9	19.9	0.0334	0.0330	0.0512	0.0368	0.0335	12:35:03	Yes
Mean:	20.1	20.1	0.0338						
SD :	0.36	0.36	0.0006						
%RSD:	1.78	1.78	1.74						

Recovery for Sb = 100.6 % within 85 % to 115 %

=====  
 Element: Sb    Seq. No.: 503    AS Loc.: 126    Date: 06/28/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.3	26.3	0.0440	0.0436	0.0626	0.0390	0.0250	12:37:56	Yes

Sb



2	26.1	26.1	0.0435	0.0431	0.0601	0.0364	0.0259	12:40:50	Yes
Mean:	26.2	26.2	0.0437						
SD :	0.20	0.20	0.0003						
%RSD:	0.76	0.76	0.74	✓					

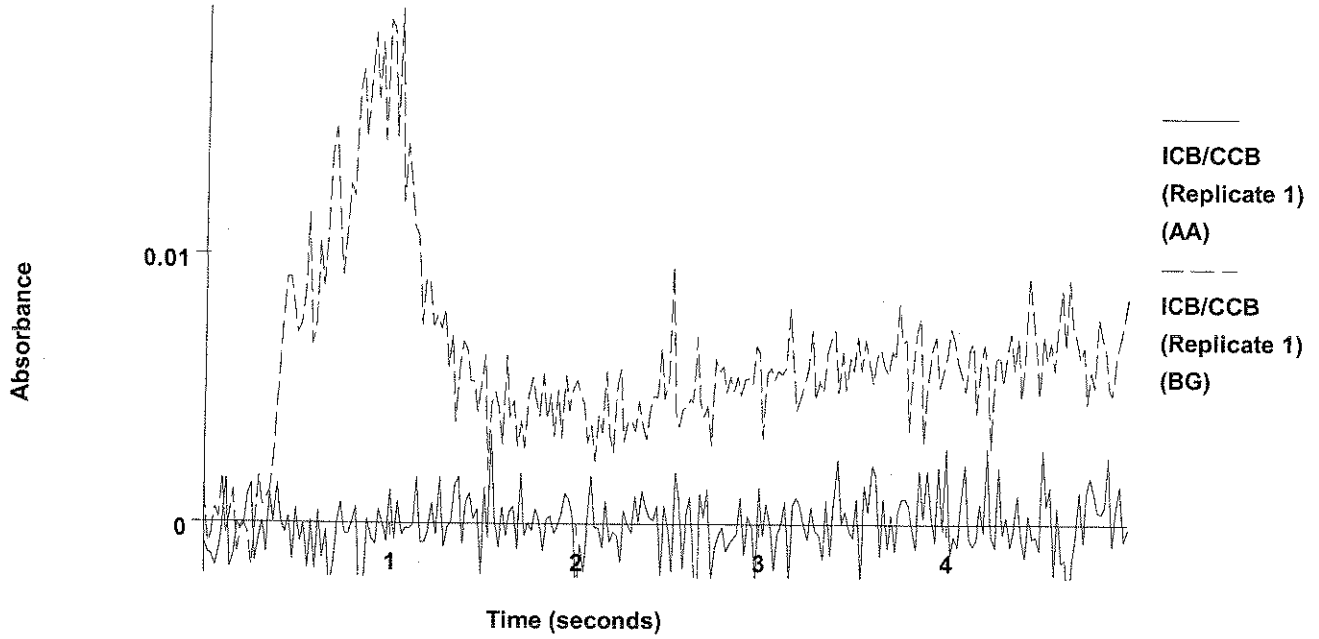
QC value within specified limits.

=====  
 Element: Sb    Seq. No.: 504    AS Loc.: 148    Date: 06/28/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	0.0003	-0.0001	0.0034	0.0308	0.0191	12:43:40	Yes



Sb



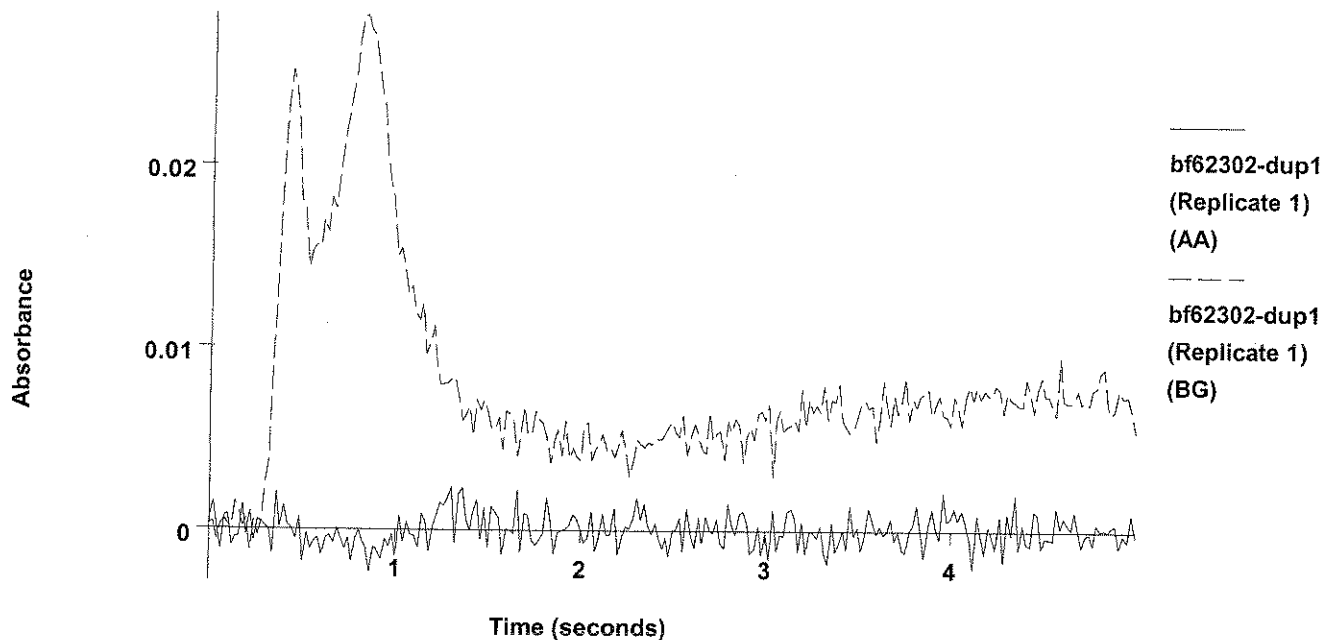
2	-1.0	-1.0	-0.0009	-0.0012	0.0020	0.0316	0.0171	12:46:29	Yes
Mean:	-0.7	-0.7	-0.0003						
SD :	0.51	0.51	0.0008						
%RSD:	75.6	75.6	286.58						

QC value within specified limits. ✓

=====  
 Element: Sb    Seq. No.: 505    AS Loc.: 63    Date: 06/28/2006  
 Sample ID: bf62302-dup1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 63  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	0.0004	0.0001	0.0023	0.0404	0.0282	12:49:18	Yes

Sb

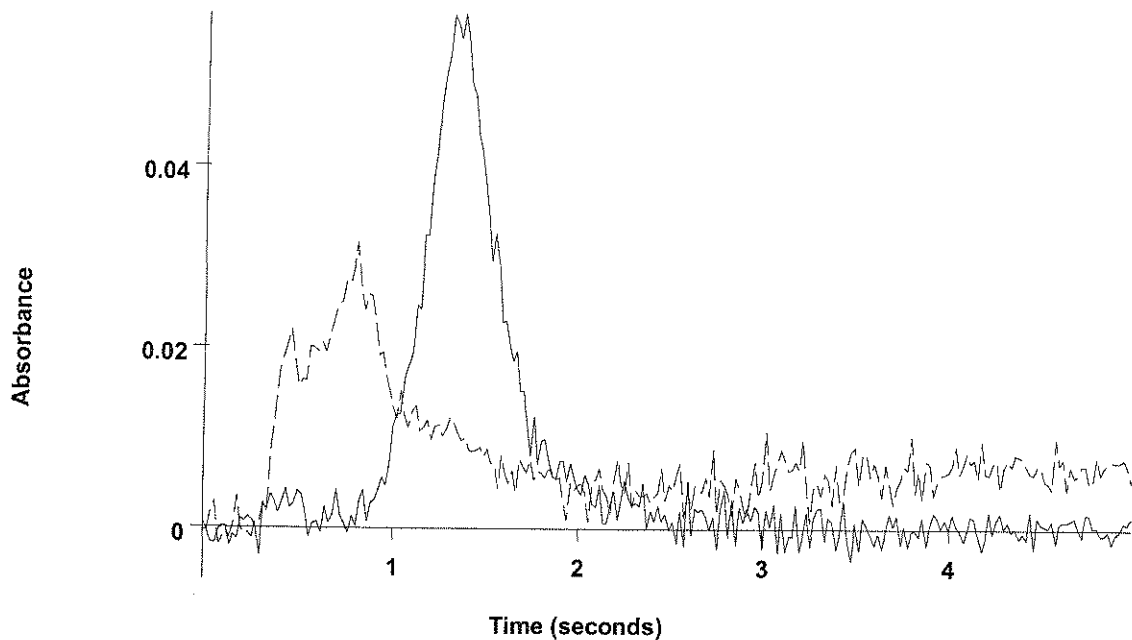


2	-0.5	-0.5	0.0000	-0.0003	0.0020	0.0403	0.0292	12:52:07	Yes
Mean:	-0.4	-0.4	0.0002						
SD :	0.16	0.16	0.0003						
%RSD:	46.3	46.3	114.77						

=====  
 Element: Sb    Seq. No.: 506    AS Loc.: 64    Date: 06/28/2006  
 Sample ID: bf62302-ms2  
 µL dispensed: 10 from 148, 5 from 147, 15 from 64  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	17.9	17.9	0.0302	0.0298	0.0569	0.0393	0.0316	12:54:58	Yes

Sb



-----  
 bf62302-ms2  
 (Replicate 1)  
 (AA)  
 -----  
 bf62302-ms2  
 (Replicate 1)  
 (BG)

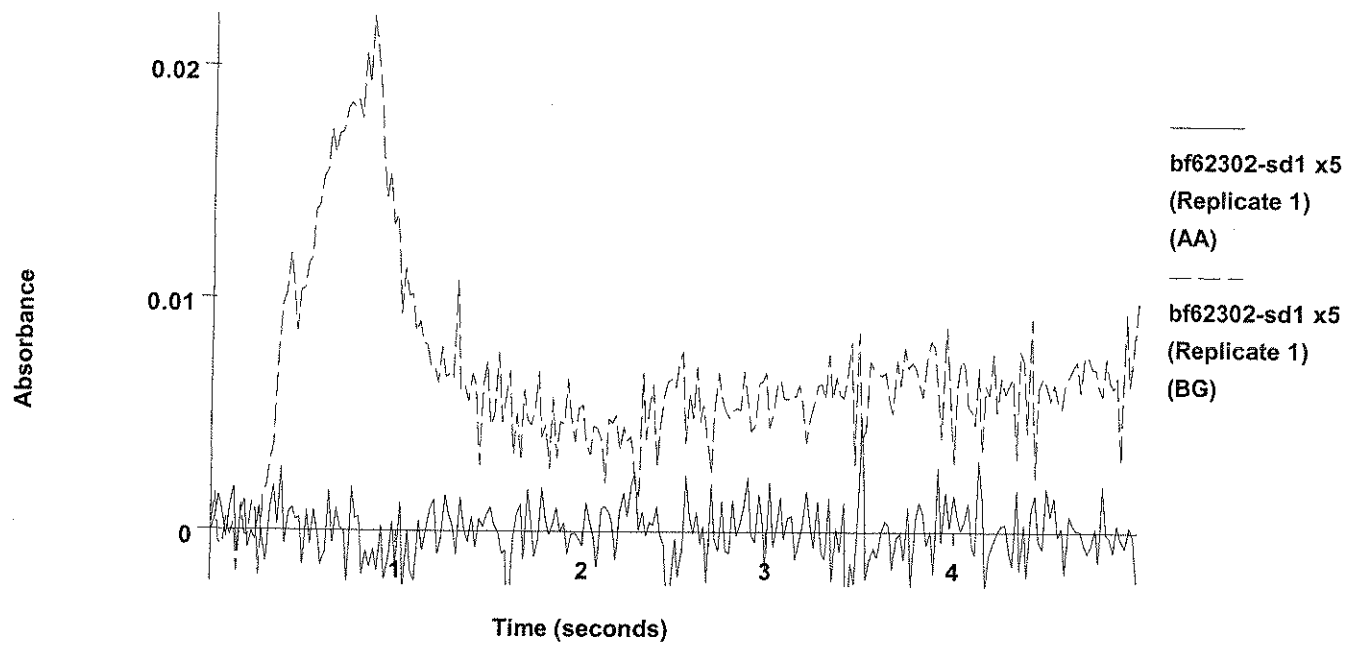
2	18.4	18.4	0.0310	0.0307	0.0605	0.0413	0.0297	12:57:48	Yes
Mean:	18.2	18.2	0.0306						
SD :	0.38	0.38	0.0006						
%RSD:	2.07	2.07	2.01						

91.1

=====  
 Element: Sb    Seq. No.: 507    AS Loc.: 65    Date: 06/28/2006  
 Sample ID: bf62302-sd1 x5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 65  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	0.0005	0.0001	0.0050	0.0338	0.0222	01:00:38	Yes

Sb



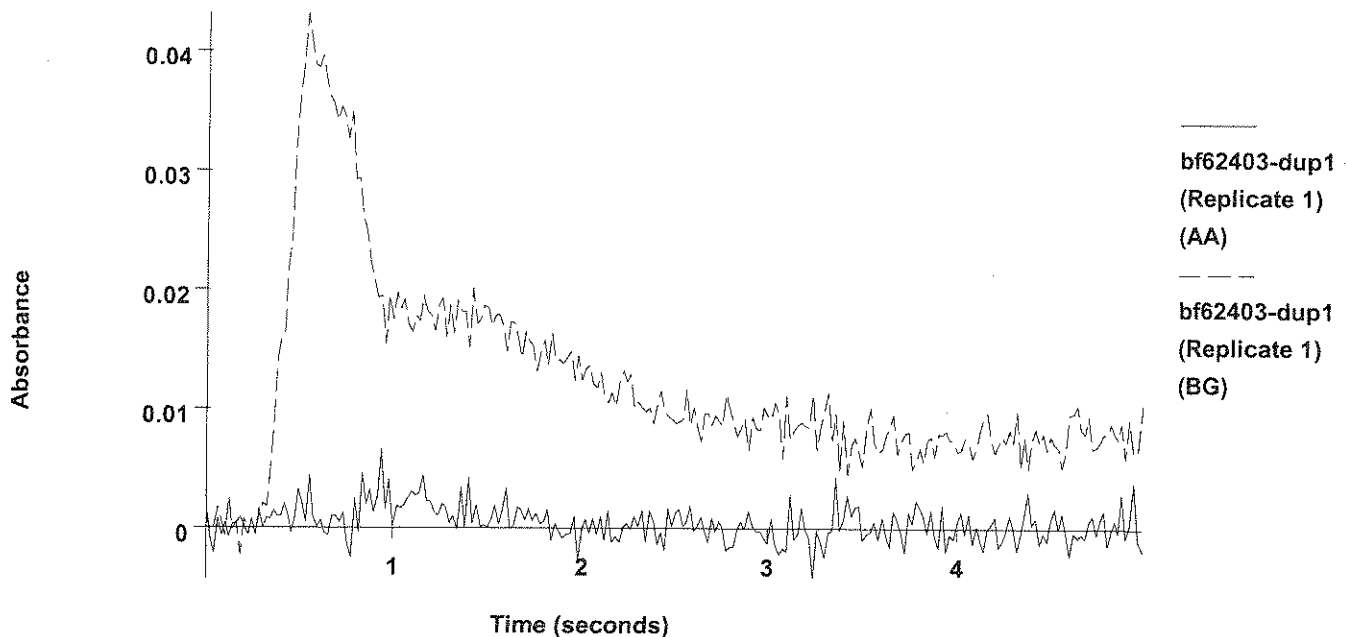
2	-0.2	-0.2	0.0005	0.0001	0.0043	0.0344	0.0224	01:03:27	Yes
Mean:	-0.2	-0.2	0.0005						
SD :	0.01	0.01	0.0000						
%RSD:	4.83	4.83	3.20						

*ND*

=====  
 Element: Sb    Seq. No.: 508    AS Loc.: 66    Date: 06/28/2006  
 Sample ID: 0606375-01  
 µL dispensed: 10 from 148, 5 from 147, 15 from 66  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	10.2	10.2	0.0175	0.0171	0.0271	0.0505	0.0396	01:06:17	Yes

Sb

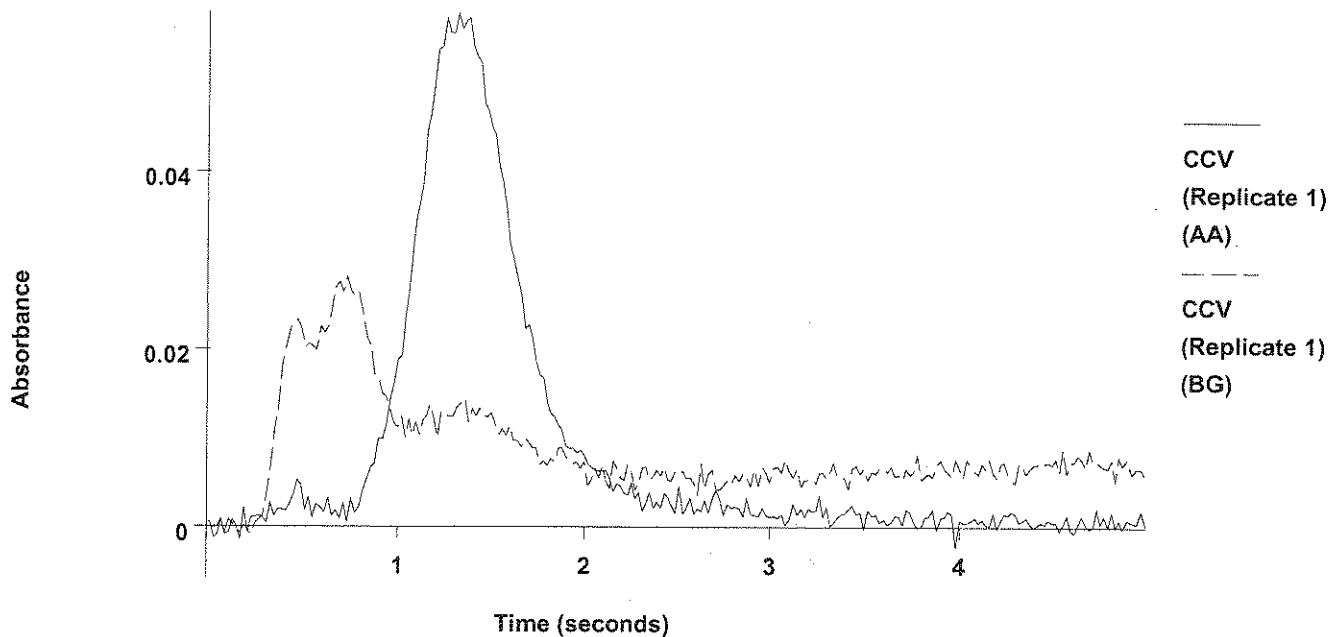


2	0.6	0.6	0.0019	0.0015	0.0040	0.0611	0.0428	02:07:00	Yes
Mean:	0.9	0.9	0.0022						
SD :	0.31	0.31	0.0005						
%RSD:	36.3	36.3	22.96						

=====  
 Element: Sb    Seq. No.: 519    AS Loc.: 126    Date: 06/28/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.0	25.0	0.0418	0.0415	0.0579	0.0428	0.0281	02:09:53	Yes

Sb



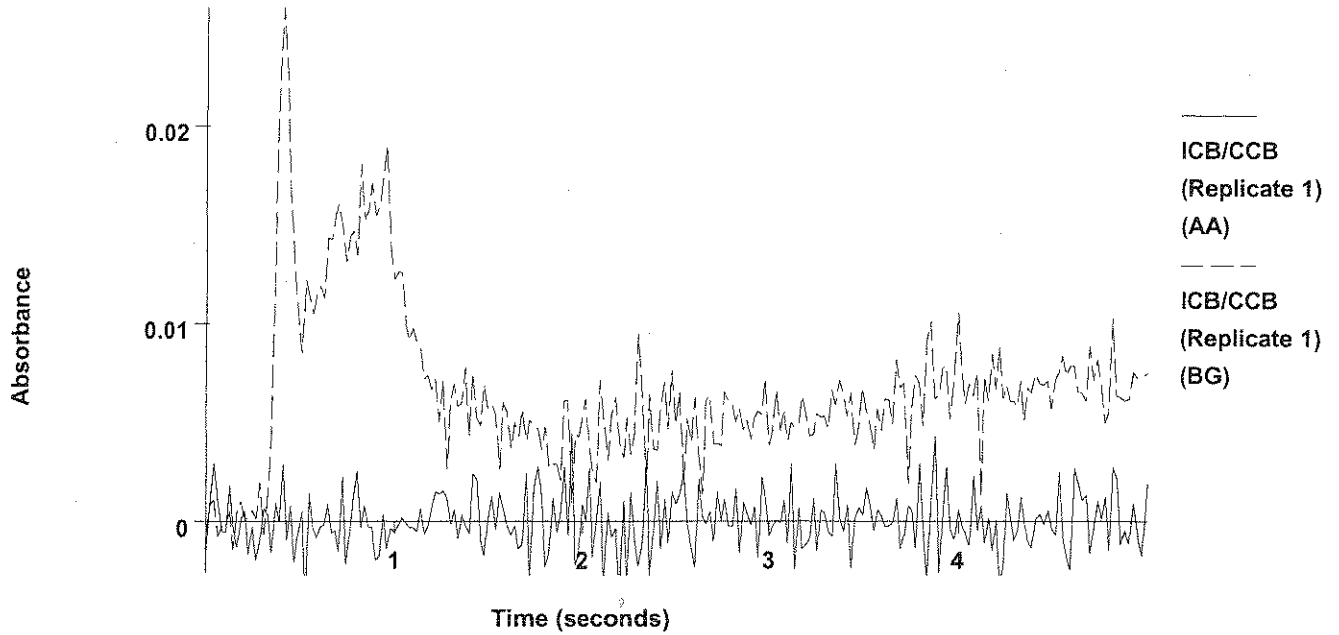
2	24.7	24.7	0.0413	0.0409	0.0561	0.0430	0.0262	02:12:46	Yes
Mean:	24.9	24.9	0.0415						
SD :	0.24	0.24	0.0004						
%RSD:	0.96	0.96	0.94						

QC value within specified limits.

=====  
 Element: Sb    Seq. No.: 520    AS Loc.: 148    Date: 06/28/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	0.0004	0.0001	0.0044	0.0334	0.0260	02:15:36	Yes

Sb



2	-0.4	-0.4	0.0002	-0.0002	0.0042	0.0311	0.0157	02:18:25	Yes
Mean:	-0.3	-0.3	0.0003						
SD :	0.10	0.10	0.0002						
%RSD:	30.5	30.5	54.92	✓					

QC value within specified limits.

=====  
 Element: Sb    Seq. No.: 521    AS Loc.: 73    Date: 06/28/2006  
 Sample ID: bf62403-ms3  
 µL dispensed: 10 from 148, 5 from 147, 15 from 73  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.8	23.8	0.0397	0.0394	0.0580	0.0601	0.0349	02:21:16	Yes

## ANALYSIS SEQUENCE

BPG0207

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0207-CAL1	QC		1		6F28044		
BPG0207-CAL2	QC		2		6F28010		
BPG0207-CAL3	QC		3		6F28011		
BPG0207-CAL4	QC		4		6F28012		
BPG0207-CAL5	QC		5		6F28013		
BPG0207-ICV1	QC		6		6F28012		
BPG0207-SCV1	QC		7		6F28014		
BPG0207-ICB1	QC		8				
BF62206-DUP7	QC		9				
0606346-05	Pb: ppm Diss Lead 7421	G	10				MACTEC Engineering & Consulting, In
0606346-06	Pb: ppm Diss Lead 7421	G	11				MACTEC Engineering & Consulting, In
BPG0207-CCB1	QC		12				
BPG0207-CCV1	QC		13		6F28012		
BF62302-BLK4	QC		14				
BF62302-DUP4	QC		15				

Samples Loaded By

Date

Data Processed By

Date



## Autosampler Loading List

Sample Information File: 062806YA.SIF

Methods: Pb 2 <sup>1</sup> Tl 5 As 5 Sb 5 ~~Tl 2~~ <sup>5</sup> <sub>6/28/06</sub>

Location	Elements	Solution
1	Pb	Sample: BF62206-DUP2
2	Pb	Sample: 0606346-05DIS
3	Pb	Sample: 0606346-06DIS
4	Pb	Sample: BF62301-BLK1
5	Pb	Sample: BF62301-BS2
6	Pb	Sample: BF62301-BSD2
7	Pb	Sample: BF62302-BLK1
8	Pb	Sample: BF62302-DUP1
9	Pb	Sample: 0606375-01
10	Pb	Sample: BF62403-BLK1
11	Pb	Sample: BF62403-BS2
12	Pb	Sample: BF62403-BSD2
13	Pb	Sample: 0606407-01
14	Pb	Sample: 0606407-02
15	Pb	Sample: BF62403-DUP1
16	Pb	Sample: BF62403-MS3
17	Pb	Sample: BF62403-SD1
18	Pb	Sample: 0606407-03
19	Pb	Sample: 0606407-01DIS
20	Pb	Sample: 0606407-02DIS
21	Pb	Sample: 0606407-03DIS
22	Pb	Sample: 0606382-01
23	Tl, As	Sample: BF62317-BLK1
24	Tl, As	Sample: BF62317-BS1X20
25	Tl, As	Sample: BF62317-BSD1X20
26	Tl, As	Sample: BF62317-SRM1X50
27	Tl, As	Sample: 0606361-01X5
28	As, Tl	Sample: 0606361-02X5
29	Tl, As	Sample: 0606373-01X5
30	Tl, As	Sample: 0606373-02X5
31	Tl, As	Sample: 0606373-03X5
32	Tl, As	Sample: 0606373-04X5
33	Tl, As	Sample: 0606373-05X5
34	Tl, As	Sample: 0606373-06X5
35	Tl, As	Sample: 0606373-07X5
36	Tl, As	Sample: 0606373-08X5
37	Tl, As	Sample: BF62317-DUP1X5
38	Tl, As	Sample: BF62317-MS1X20
39	Tl, As	Sample: BF62317-SD1X25
40	Tl, As	Sample: 0606373-09X5
41	Tl, As	Sample: 0606373-10X5
42	Tl, As	Sample: 0606373-19X5
43	Tl, As	Sample: 0606373-12X5
44	Tl, As	Sample: 0606373-13X5
45	Tl, As	Sample: 0606373-14X5
46	Tl, As	Sample: 0606373-15X5
47	Tl, As	Sample: 0606373-16X5
48	Tl, As	Sample: 0606373-17X5
49	Tl, As	Sample: 0606373-18X5
50	Tl, As	Sample: BF62317-DUP2X5
51	Tl, As	Sample: BF62317-MS2X20
52	Tl, As	Sample: BF62317-SD2X25
53	Tl, As	Sample: BF62320-BLK1
54	Tl, As	Sample: BF62320-BS1X20
55	Tl, As	Sample: BF62320-BSD1X20
56	Tl, As	Sample: BF62320-SRM1X50
57	Tl, As	Sample: 0606374-01X5
58	Tl, As	Sample: 0606374-02X5
59	Tl, As	Sample: 0606374-03X5
60	Tl, As	Sample: 0606374-04X5
61	Tl, As	Sample: 0606374-05X5

As taken  
from loc 35-61  
8/1/06

62	Tl,As	Sample: 0606374-06X5
63	Tl,As	Sample: 0606374-07X5
64	Tl,As	Sample: 0606374-08X5
65	Tl,As	Sample: 0606374-09X5
66	Tl,As	Sample: 0606374-10X5
67	Tl,As	Sample: BF62320-DUP1X5
68	Tl,As	Sample: BF62320-MS1X20
69	Tl,As	Sample: BF62320-SD1X25
70	Tl,As	Sample: 0606374-11X5
71	Tl,As	Sample: 0606374-12X5
72	Tl,As	Sample: 0606374-13X5
73	Tl,As	Sample: 0606374-14X5
74	Tl,As	Sample: BF62320-DUP2X5
75	Tl,As	Sample: BF62320-MS2X20
76	Tl,As	Sample: BF62320-SD2X25
77	Tl,As	Sample: 0606374-15X5
78	Tl,As	Sample: 0606374-16X5
79	Tl,As	Sample: 0606373-20X5
80	Tl,As	Sample: 0606373-21X5
81	Tl,As	Sample: BF62713-BLK1
82	Tl,As	Sample: BF62713-BS1X20
83	Tl,As	Sample: BF62713-BSD1X20
84	Tl,As	Sample: BF62713-SRM1X50
85	Tl,As	Sample: 0606360-01X5
86	Tl,As	Sample: BF62617-BLK1
87	Tl,As	Sample: BF62617-BS1X20
88	Tl,As	Sample: BF62617-BSD1X20
89	Tl,As	Sample: BF62617-SRM1X50
90	Tl,As	Sample: 0606383-01X5
91	Tl,As	Sample: 0606383-02X5
92	Tl,As	Sample: 0606383-03X5
93	Tl,As	Sample: 0606383-04X5
94	Tl,As	Sample: 0606383-05X5
95	Tl,As	Sample: 0606383-06X5
96	Tl,As	Sample: 0606383-07X5
97	Tl,As	Sample: 0606383-08X5
98	Tl,As	Sample: 0606383-09X5
99	Tl,As	Sample: 0606383-10X5
100	Tl,As	Sample: 0606383-11X5
101	Tl,As	Sample: BF62617-DUP1X5
102	Tl,As	Sample: BF62617-MS1X20
103	Tl,As	Sample: BF62617-SD1X25
104	Tl,As	Sample: 0606383-12X5
105	Tl,As	Sample: 0606383-13X5
106	Tl,As	Sample: BF62617-DUP2X5
107	Tl,As	Sample: BF62617-MS2X20
108	Tl,As	Sample: BF62617-SD2X25
109	Tl,As	Sample: 0606383-14X5
110	Tl,As	Sample: 0606405-01X5
111	Tl,As	Sample: 0606405-02X5
112	Tl,As	Sample: 0606405-03X5
113	Tl,As	Sample: 0606405-04X5
114	Pb,As,Sb,Tl	Sample: BF62705-BLK1
115	Pb,As,Sb,Tl	Sample: BF62705-BS2
116	Pb,As,Sb,Tl	Sample: BF62705-BSD2
117	Pb,As	Sample: 0606428-01
118	Pb,As,Sb,Tl	Sample: 0606430-01
119	Pb,As,Sb,Tl	Sample: 0606430-02
120	Pb,As,Sb,Tl	Sample: BF62705-BLK2
121	Pb,Tl,As,Sb	Stock Standard: 5.0 µg/L
122	Pb,As,Sb,Tl	Sample: 0606429-01DIS
123	Pb,As,Sb,Tl	Sample: 0606429-02DIS
124	Pb,Tl,As,Sb	Stock Standard: 10.0 µg/L
	Tl	STD 3: 10.0000 µg/L
	Tl	CCV: 10.0000 µg/L
125	Pb,As,Sb,Tl	Sample: 0606429-03DIS
126	Pb,Tl,As,Sb	Stock Standard: 25.0 µg/L

	Pb, Tl, As, Sb	STD 3: 25.0000 µg/L
	Pb, Tl, As, Sb	CCV: 25.0000 µg/L
127	Pb, As, Sb, Tl	Sample: 0606429-04DIS
128	Pb, As, Sb, Tl	Sample: 0606429-05DIS
129	Pb, Tl, As, Sb	Stock Standard: 50.0 µg/L
130	Pb, As, Sb, Tl	Sample: 0606430-01DIS
131	Pb, Tl, As, Sb	Recovery Stock: 50.0 µg/L
132	Pb, As, Sb, Tl	Sample: 0606430-02DIS
133	Pb, As, Sb, Tl	Sample: BF62705-DUP2
134	Pb, Tl, As, Sb	ICV: 25.0000 µg/L
135	Pb, As, Sb, Tl	Sample: BF62705-MS4
136	Pb, Tl, As, Sb	CRA 2: 2.0000 µg/L
	Tl	Stock Standard: 2.0 µg/L
137	Pb, As, Sb, Tl	Sample: BF62705-SD2X5
139	Tl	ICV: 10.0000 µg/L
141	Pb	Standard 0
	Pb	ICB/CCB: 0.0000 µg/L
	Pb	Diluent
146	Pb	Modifier 2
147	Tl, As, Sb	Modifier 1
148	Tl, As, Sb	Standard 0
	Tl, As, Sb	ICB/CCB: 0.0000 µg/L
	Tl, As, Sb	Diluent

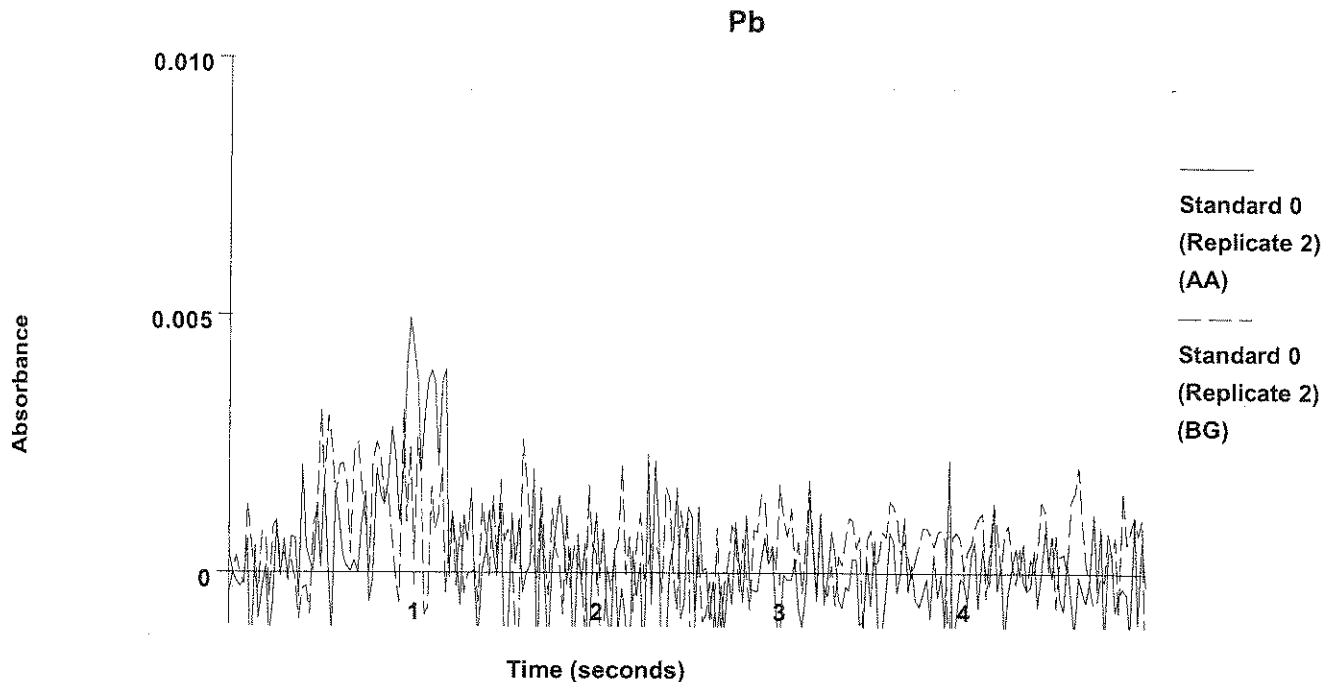
Method Name: Pb 2  
 Method Description: Pb  
 Element: Pb

Date: 06/28/2006  
 Technique: Furnace  
 Calibration Type:  
 Pb, Calc. Intercept : Linear  
 Wavelength: 283.3 nm  
 Energy: 100  
 Slit Width: 0.7  
 Lamp Current: 10 mA  
 Sample Info Name: 062806YA.SIF

Results Data Set Name: 062806YAD

Element: Pb Seq. No.: 1 AS Loc.: 141 Date: 06/28/2006  
 Sample ID: Standard 0  
 µL dispensed: 10 from 141, 5 from 146, 15 from 141

Repl #	SampleConc	StndConc	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0016	0.0016	0.0057	0.0044	0.0039	04:08:11	Yes
2			0.0011	0.0011	0.0049	0.0026	0.0032	04:11:03	Yes



Mean: 0.0013  
 SD : 0.0003  
 %RSD: 23.99

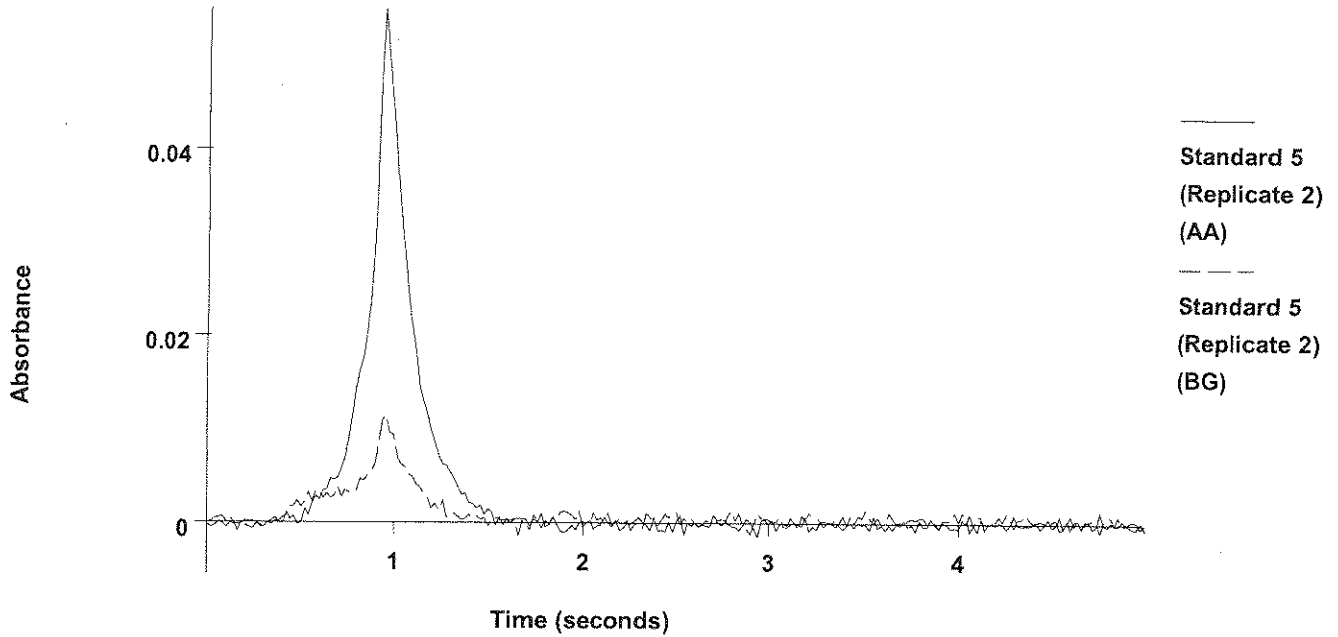
Auto-zero performed.

Element: Pb Seq. No.: 2 AS Loc.: 121 Date: 06/28/2006  
 Sample ID: Standard 5  
 µL dispensed: 10 from 141, 5 from 146, 15 from 121

Repl #	SampleConc	StndConc	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0125	0.0138	0.0539	0.0062	0.0118	04:14:23	Yes
2			0.0123	0.0136	0.0550	0.0046	0.0114	04:17:16	Yes

230

Pb

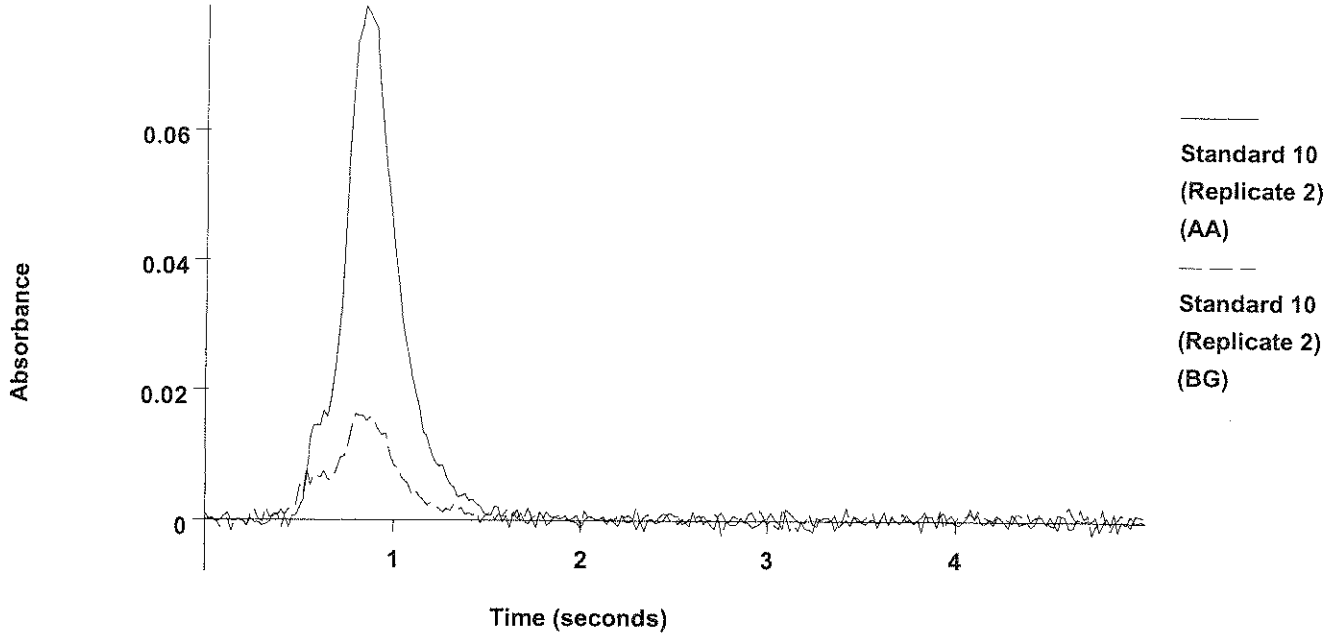


Mean: 0.0124  
 SD : 0.0001  
 %RSD: 1.08  
 [Pb] Standard number 1 applied. [5.0]  
 Correlation Coefficient: 1.00000 Slope: 0.00248  
 Intercept : 0.00000

=====  
 Element: Pb Seq. No.: 3 AS Loc.: 124 Date: 06/28/2006  
 Sample ID: Standard 10  
 µL dispensed: 10 from 141, 5 from 146, 15 from 124  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0266	0.0279	0.1073	0.0092	0.0220	04:20:37	Yes
2			0.0262	0.0275	0.0791	0.0083	0.0162	04:23:30	Yes

Pb

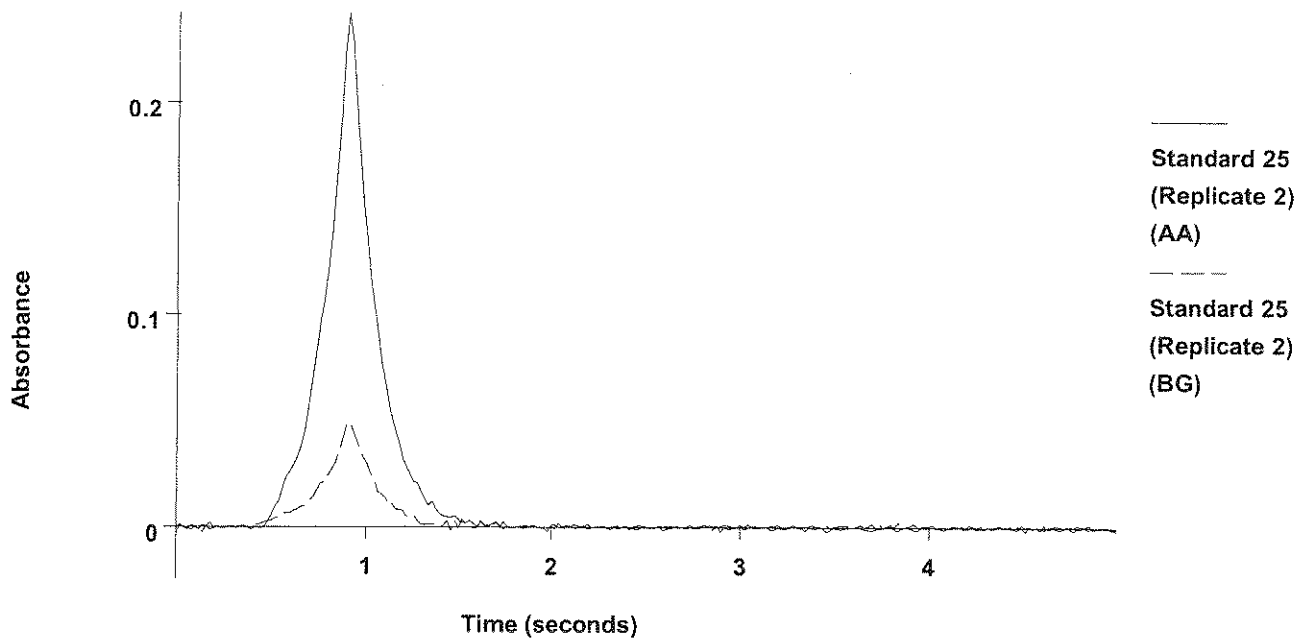


Mean: 0.0264  
 SD : 0.0003  
 %RSD: 1.01  
 [Pb] Standard number 2 applied. [10.0]  
 Correlation Coefficient: 0.99939 Slope: 0.00264  
 Intercept : -0.00027

=====  
 Element: Pb Seq. No.: 4 AS Loc.: 126 Date: 06/28/2006  
 Sample ID: Standard 25  
 µL dispensed: 10 from 141, 5 from 146, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0663	0.0676	0.2291	0.0168	0.0474	04:26:50	Yes
2			0.0684	0.0698	0.2423	0.0157	0.0491	04:29:43	Yes

Pb



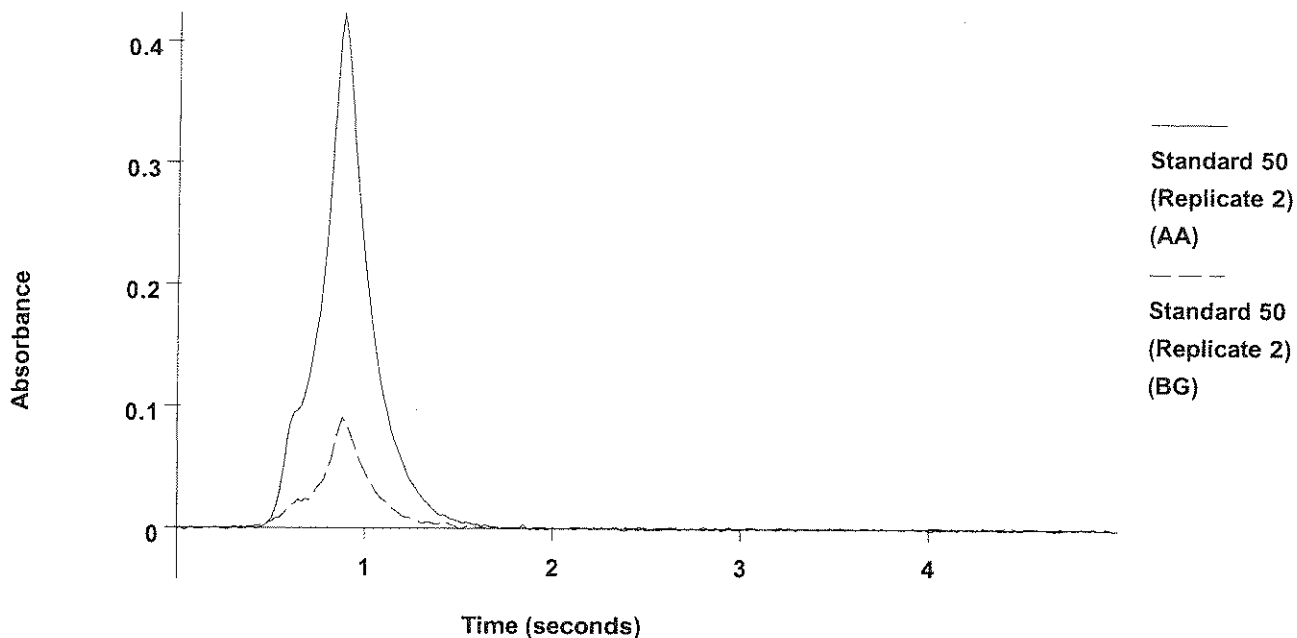
Mean: 0.0674  
 SD : 0.0015  
 %RSD: 2.26  
 [Pb] Standard number 3 applied. [25.0]  
 Correlation Coefficient: 0.99986  
 Intercept : -0.00056

Slope: 0.00271

=====  
 Element: Pb Seq. No.: 5 AS Loc.: 129 Date: 06/28/2006  
 Sample ID: Standard 50  
 µL dispensed: 10 from 141, 5 from 146, 15 from 129

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.1316	0.1330	0.4359	0.0316	0.0928	04:33:01	Yes
2			0.1270	0.1284	0.4231	0.0289	0.0902	04:35:53	Yes

Pb



Mean: 0.1293  
 SD : 0.0032  
 %RSD: 2.51  
 [Pb] Standard number 4 applied. [50.0]

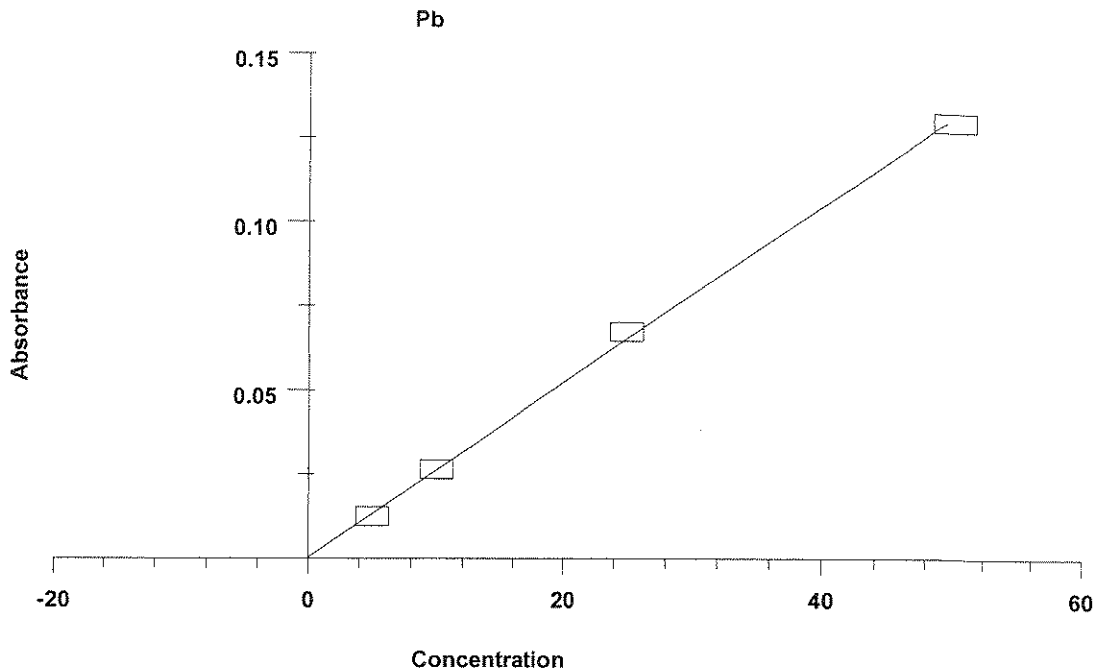
Slope: 0.00260

Intercept : 0.00030

Calibration data for Pb

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	0.0013	-	----	----	----
Standard 5	0.0124	5.0	4.7	0.00	1.08
Standard 10	0.0264	10.0	10.0	0.00	1.01
Standard 25	0.0674	25.0	25.8	0.00	2.26
Standard 50	0.1293	50.0	49.6	0.00	2.51
Correlation Coefficient: 0.99972		Slope:	0.00260	Intercept:	0.0003

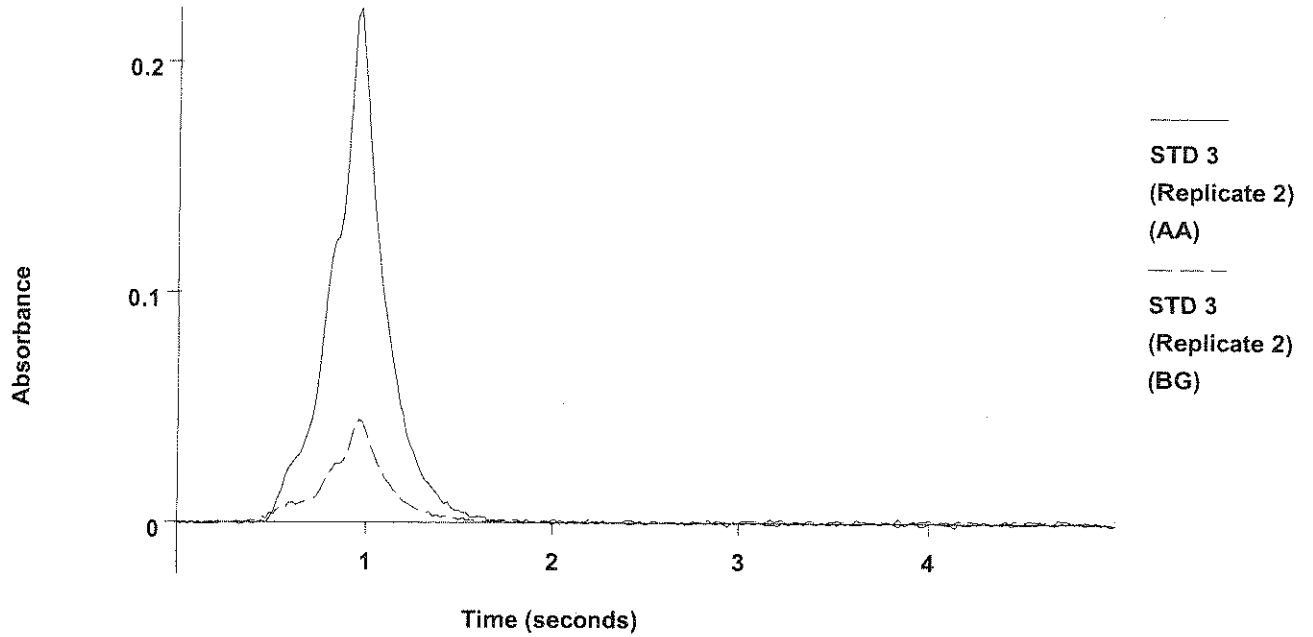




=====  
 Element: Pb    Seq. No.: 6    AS Loc.: 126    Date: 06/28/2006  
 Sample ID: STD 3  
 µL dispensed: 10 from 141, 5 from 146, 15 from 126  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.7	26.7	0.0696	0.0709	0.2367	0.0164	0.0479	04:38:54	Yes
2	25.8	25.8	0.0674	0.0687	0.2234	0.0173	0.0446	04:41:46	Yes

Pb

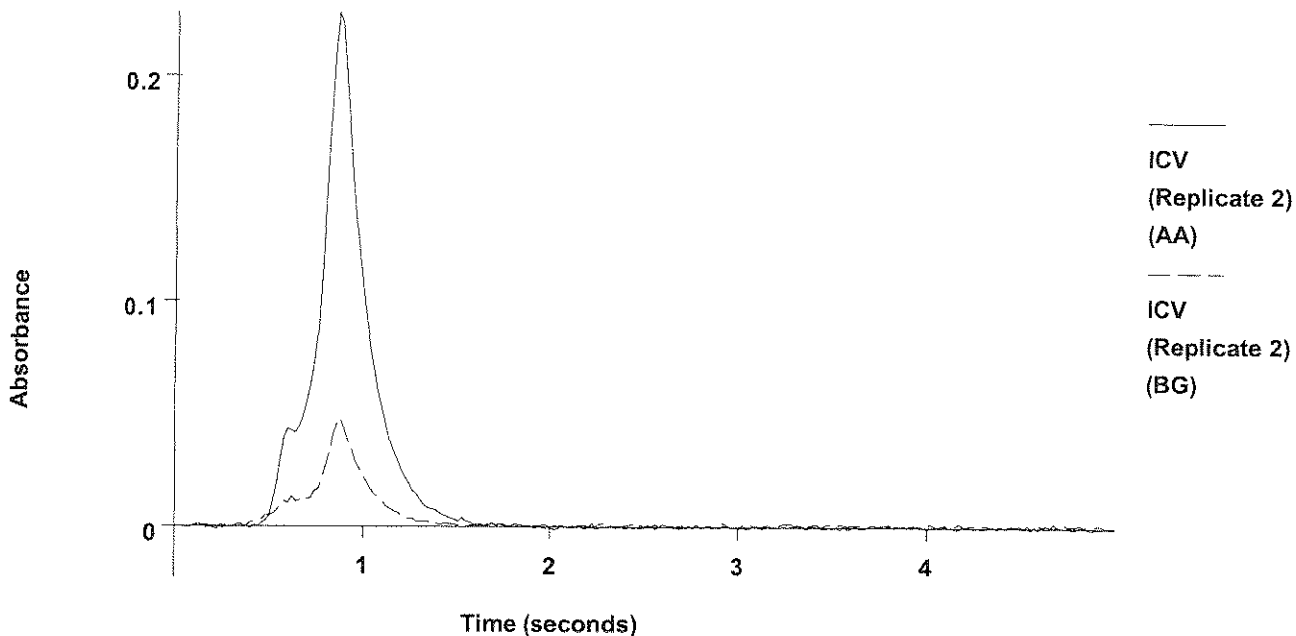


Mean: 26.2 26.2 0.0685  
 SD : 0.59 0.59 0.0015  
 %RSD: 2.26 2.26 2.25 ✓  
 QC value within specified limits.

=====  
 Element: Pb Seq. No.: 7 AS Loc.: 134 Date: 06/28/2006  
 Sample ID: ICV  
 µL dispensed: 10 from 141, 5 from 146, 15 from 134  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.1	25.1	0.0655	0.0668	0.2299	0.0154	0.0486	04:44:37	Yes
2	24.7	24.7	0.0646	0.0659	0.2282	0.0163	0.0479	04:47:27	Yes

Pb



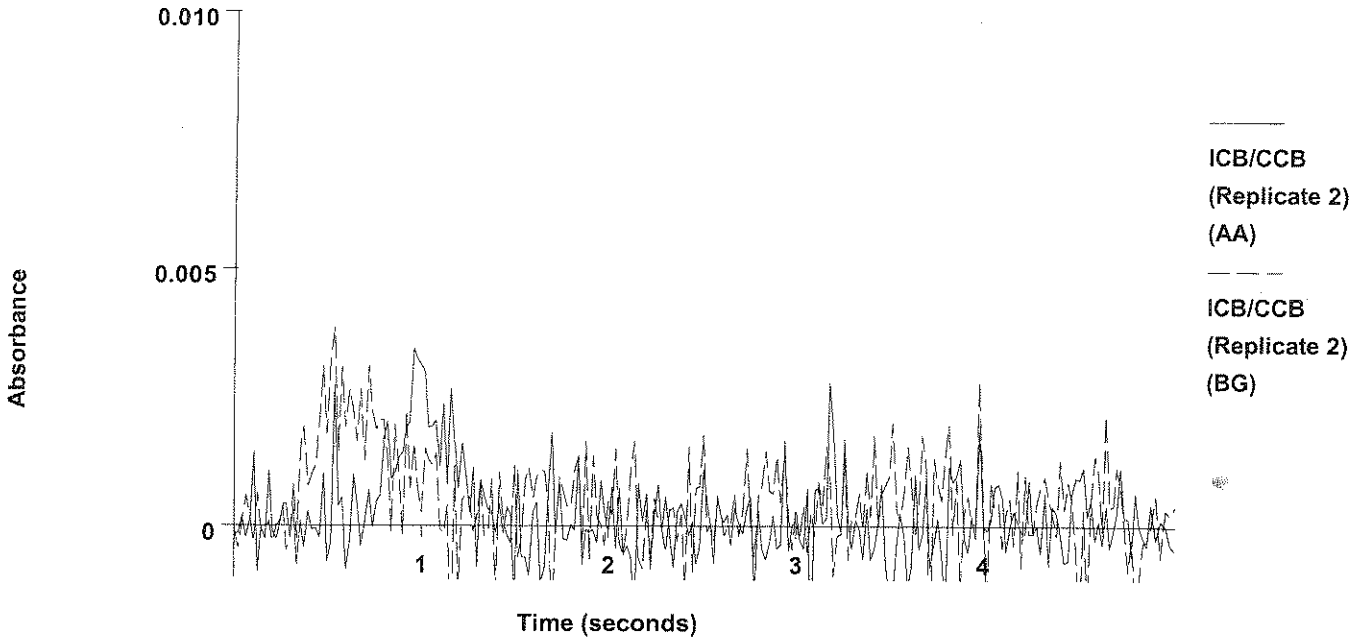
Mean: 24.9 24.9 0.0650  
 SD : 0.24 0.24 0.0006  
 %RSD: 0.95 0.95 0.94

QC value within specified limits.

=====  
 Element: Pb Seq. No.: 8 AS Loc.: 141 Date: 06/28/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 141, 5 from 146, 15 from 141  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0008	0.0005	0.0036	0.0041	0.0055	04:50:20	Yes
2	-0.2	-0.2	-0.0001	0.0012	0.0035	0.0024	0.0038	04:53:12	Yes

Pb

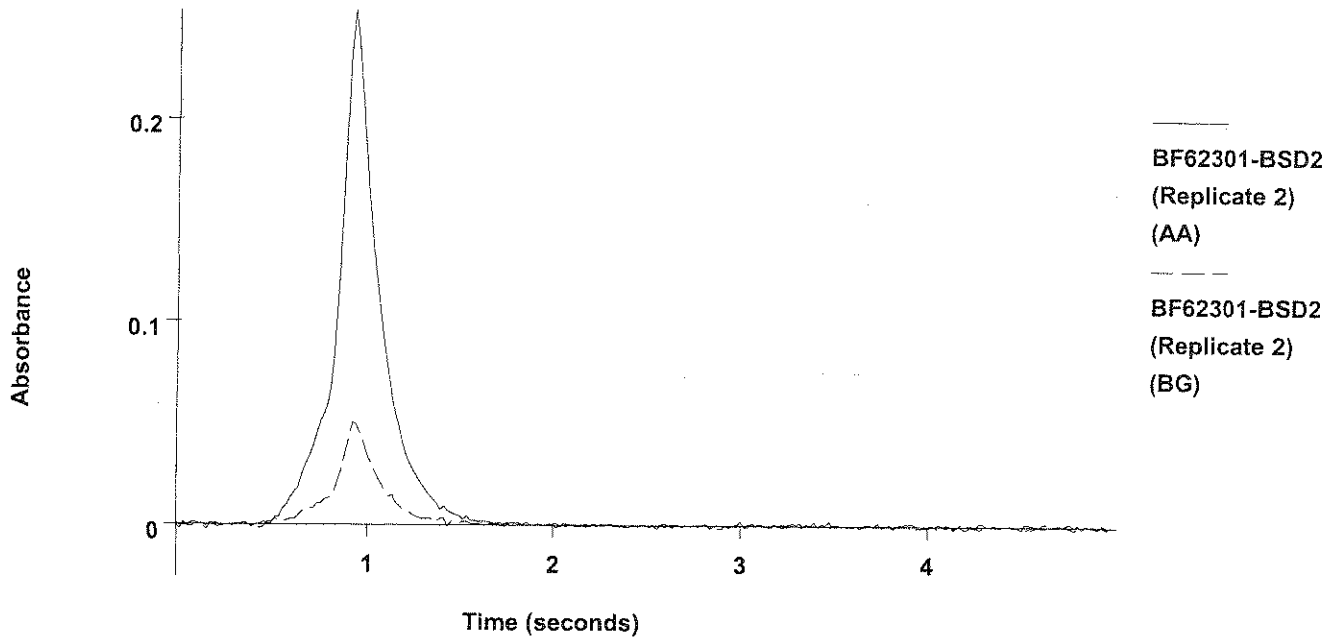


Mean: -0.3 -0.3 -0.0005  
 SD : 0.18 0.18 0.0005  
 %RSD: 61.70 61.70 100.69 ✓  
 QC value within specified limits.

=====  
 Element: Pb Seq. No.: 9 AS Loc.: 136 Date: 06/28/2006  
 Sample ID: CRA 2  
 µL dispensed: 10 from 141, 5 from 146, 15 from 136  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.9	1.9	0.0052	0.0065	0.0271	0.0046	0.0065	04:56:01	Yes
2	1.8	1.8	0.0051	0.0064	0.0211	0.0054	0.0055	04:58:52	Yes

Pb



Mean: 25.6 25.6 0.0667  
 SD : 0.76 0.76 0.0020  
 %RSD: 2.98 2.98 2.96

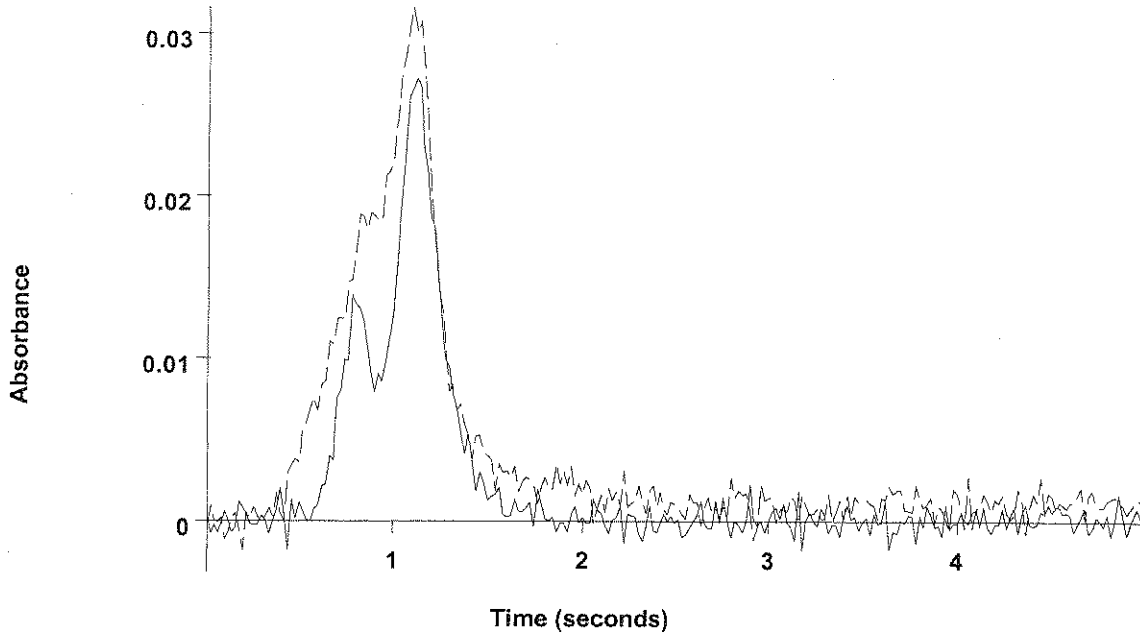
1281.

=====  
 Element: Pb Seq. No.: 16 AS Loc.: 7 Date: 06/28/2006  
 Sample ID: BF62302-BLK1  
 µL dispensed: 10 from 141, 5 from 146, 15 from 7  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0005	0.0009	0.0032	0.0031	0.0044	05:36:19	Yes
2	-0.7	-0.7	-0.0016	-0.0002	0.0029	0.0048	0.0068	05:39:11	Yes



Pb



BF62302-DUP1  
(Replicate 2)  
(AA)

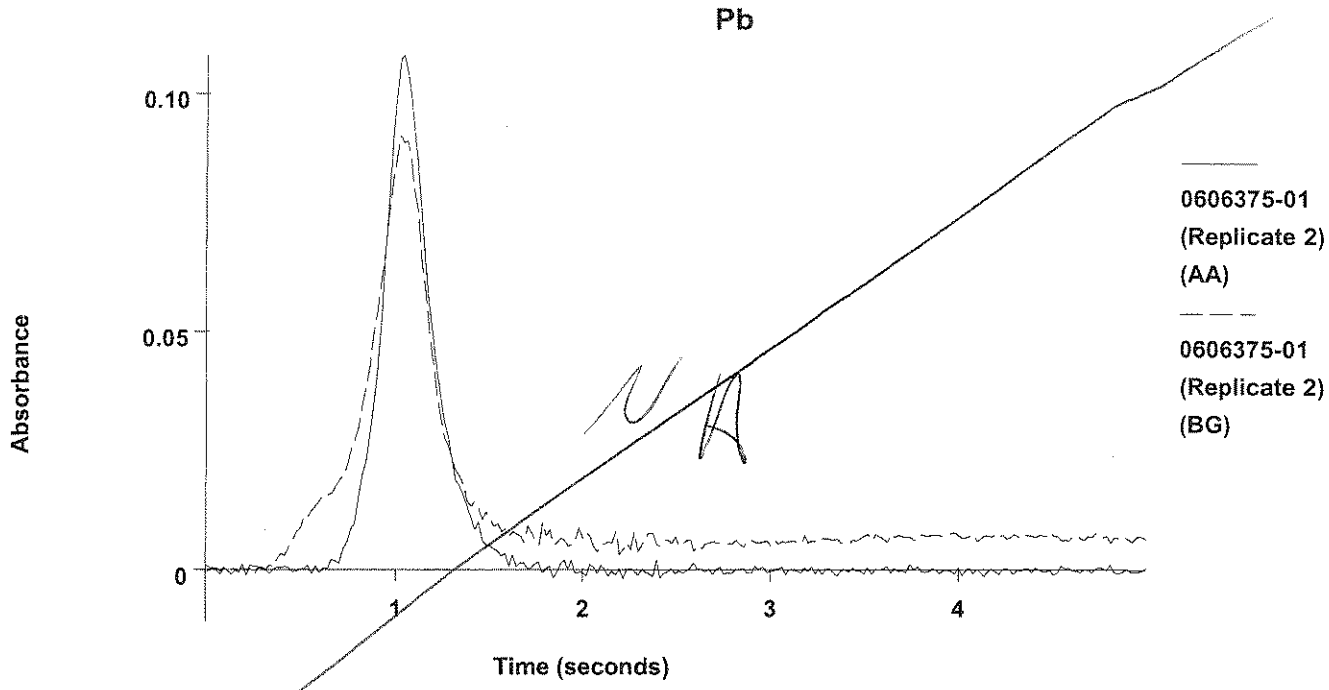
BF62302-DUP1  
(Replicate 2)  
(BG)

Mean: 3.7 3.7 0.0098  
SD : 0.14 0.14 0.0004  
%RSD: 3.72 3.72 3.61

*W*

=====  
Element: Pb Seq. No.: 18 AS Loc.: 9 Date: 06/28/2006  
Sample ID: 0606375-01  
μL dispensed: 10 from 141, 5 from 146, 15 from 9

Repl #	Sample Conc μg/L	Stnd Conc μg/L	Blnk Corr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	12.1	12.1	0.0317	0.0331	0.0960	0.0615	0.0899	05:47:50	Yes
2	12.3	12.3	0.0324	0.0337	0.1081	0.0609	0.0911	05:50:42	Yes



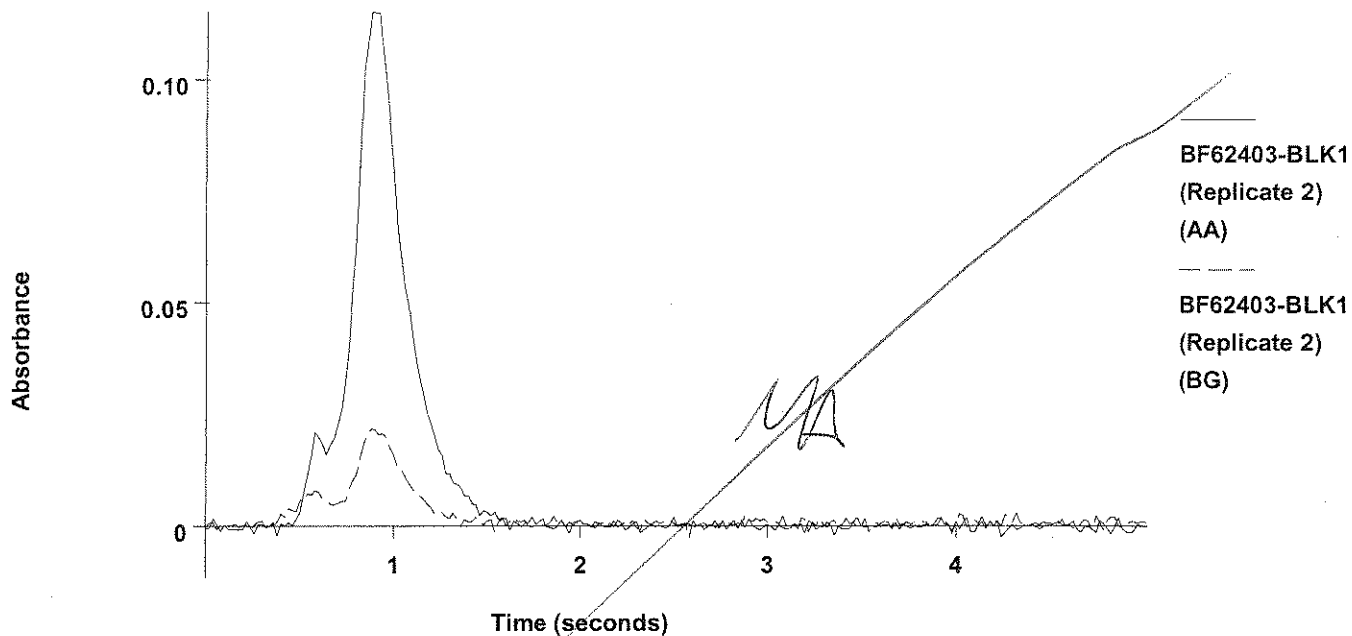
Mean: 12.2 12.2 0.0321  
 SD : 0.18 0.18 0.0005  
 %RSD: 1.46 1.46 1.45

=====  
 Element: Pb Seq. No.: 19 AS Loc.: 10 Date: 06/28/2006  
 Sample ID: BF62403-BLK1  
 µL dispensed: 10 from 141, 5 from 146, 15 from 140

Repl #	Sample Conc µg/L	Stnd Conc µg/L	Blk Corr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	14.3	14.3	0.0375	0.0388	0.1217	0.0077	0.0228	05:53:35	Yes
2	14.5	14.5	0.0381	0.0394	0.1152	0.0107	0.0218	05:56:27	Yes



Pb



Mean: 14.4      14.4      0.0378  
 SD : 0.16      0.16      0.0004  
 %RSD: 1.08      1.08      1.07

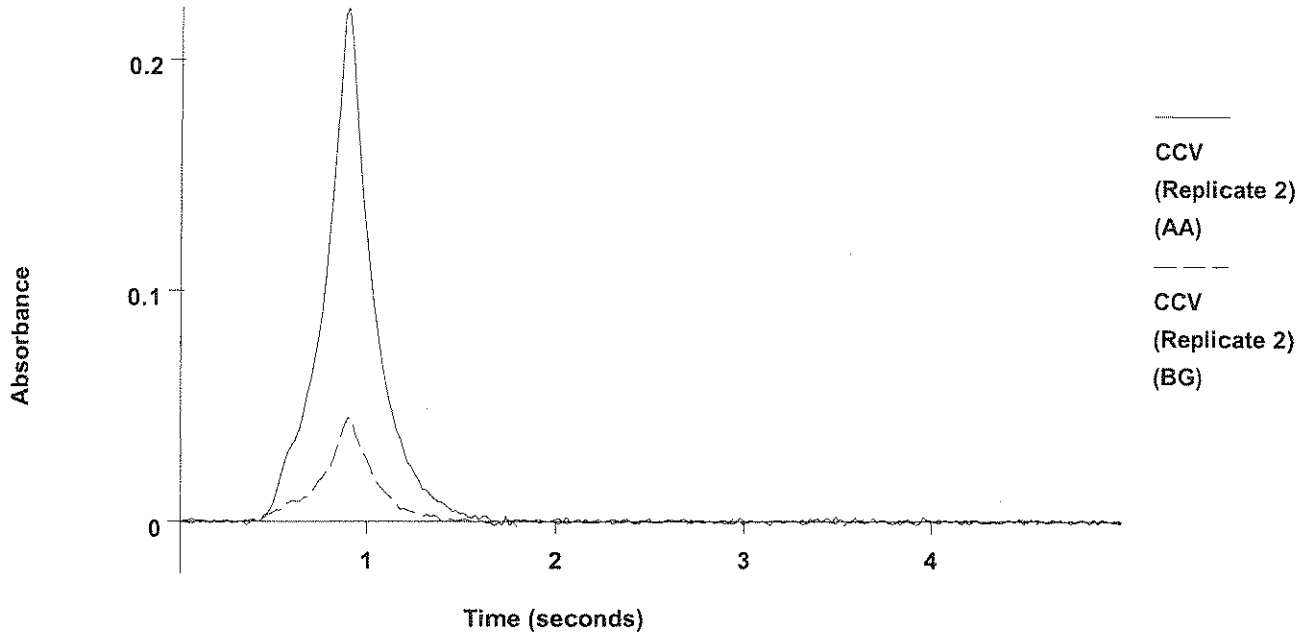
=====  
 Element: Pb      Seq. No.: 20      AS Loc.: 126      Date: 06/28/2006

Sample ID: CCV

µL dispensed: 10 from 141, 5 from 146, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.3	26.3	0.0687	0.0701	0.2167	0.0192	0.0447	05:59:21	Yes
2	25.7	25.7	0.0671	0.0684	0.2224	0.0140	0.0450	06:02:14	Yes

Pb

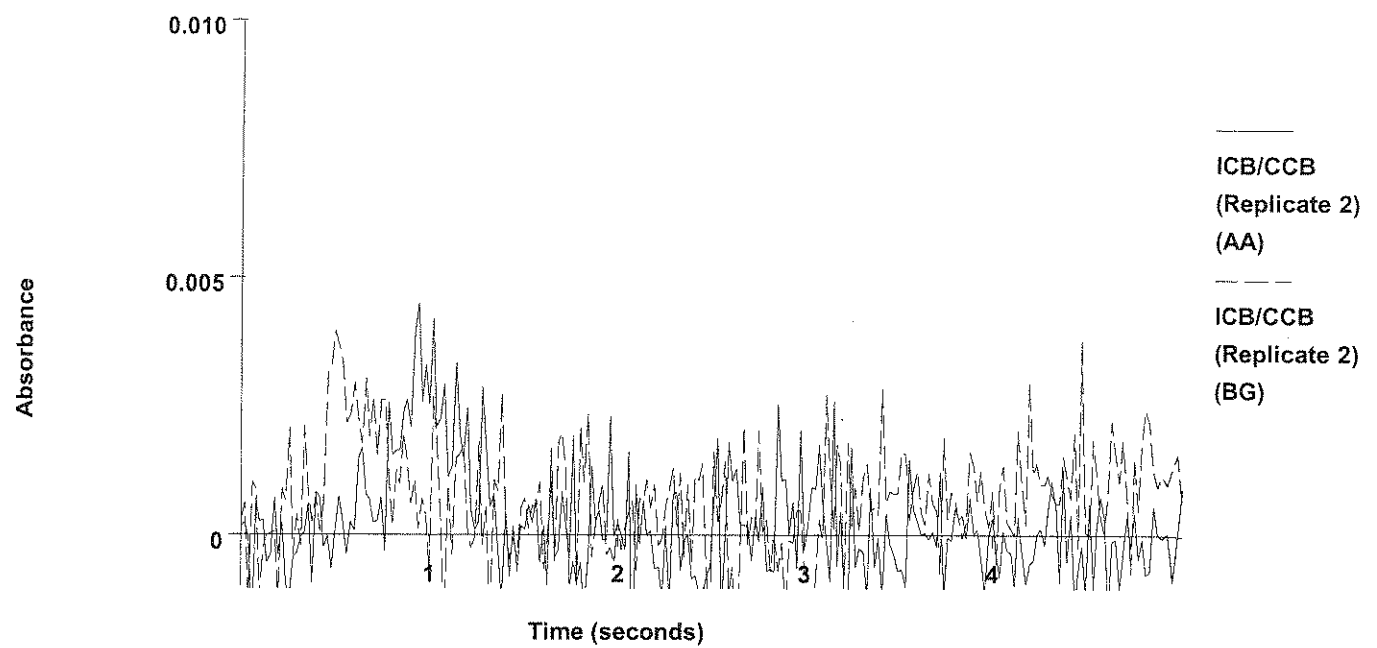


Mean: 26.0 26.0 0.0679  
 SD : 0.45 0.45 0.0012 ✓  
 %RSD: 1.72 1.72 1.72  
 QC value within specified limits.

=====  
 Element: Pb Seq. No.: 21 AS Loc.: 141 Date: 06/28/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 141, 5 from 146, 15 from 141  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0005	0.0008	0.0037	0.0033	0.0035	06:05:07	Yes
2	-0.1	-0.1	-0.0001	0.0013	0.0045	0.0036	0.0040	06:08:00	Yes

Pb



Mean:        -0.2        -0.2        -0.0003  
 SD :         0.12        0.12        0.0003  
 %RSD:       52.48        52.48       101.75  
 QC value within specified limits.

=====  
 Element: Pb    Seq. No.: 22        AS Loc.: 11    Date: 06/28/2006  
 Sample ID: BF62403-BS2  
 µL dispensed: 10 from 141, 5 from 146, 15 from 11

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	35.7	35.7	0.0930	0.0944	0.3254	0.0223	0.0672	06:10:53	Yes
2	35.4	35.4	0.0924	0.0937	0.2823	0.0210	0.0568	06:13:46	Yes

## ANALYSIS SEQUENCE

BPG0211

Instrument: HG1

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0211-CAL1	QC		1		6F23024		
BPG0211-CAL2	QC		2		6F23025		
BPG0211-CAL3	QC		3		6F23026		
BPG0211-CAL4	QC		4		6F23027		
BPG0211-CAL5	QC		5		6F23028		
BPG0211-CAL6	QC		6		6F23029		
BPG0211-ICV1	QC		7		6F23028		
BPG0211-SCV1	QC		8		6F23030		
BPG0211-ICB1	QC		9				
BF62211-BLK1	QC		10				
BF62211-BS1	QC		11				
BPG0211-CCB1	QC		12				
BPG0211-CCV1	QC		13		6F23028		
BF62211-BSD1	QC		14				
BF62211-DUPI	QC		15				
BF62211-MS1	QC		16				
BF62211-MSD1	QC		17				
BF62211-MSD2	QC		18				
BF62211-MS2	QC		19				
BF62211-DUP2	QC		20				
BF62211-PS1	QC		21				
BF62211-PS2	QC		22				
0606346-15	Hg: ppm Mercury 7470	B	23				MACTEC Engineering & Consulting, Inc
0606346-15	Hg: ppm Diss Mercury 7470	B	23				MACTEC Engineering & Consulting, Inc
BPG0211-CCB2	QC		24				
BPG0211-CCV2	QC		25		6F23028		
0606346-14	Hg: ppm Mercury 7470	B	26				MACTEC Engineering & Consulting, Inc
0606346-14	Hg: ppm Diss Mercury 7470	B	26				MACTEC Engineering & Consulting, Inc
0606346-13	Hg: ppm Diss Mercury 7470	B	27				MACTEC Engineering & Consulting, Inc
0606346-13	Hg: ppm Mercury 7470	B	27				MACTEC Engineering & Consulting, Inc
0606346-11	Hg: ppm Mercury 7470	B	28				MACTEC Engineering & Consulting, Inc
0606346-11	Hg: ppm Diss Mercury 7470	B	28				MACTEC Engineering & Consulting, Inc
0606346-10	Hg: ppm Mercury 7470	A	29				MACTEC Engineering & Consulting, Inc

Samples Loaded By

Date

246  
Data Processed By

Date

## ANALYSIS SEQUENCE

BPG0211

Instrument: HG1

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606346-10	Hg: ppm Diss Mercury 7470	A	29				MACTEC Engineering & Consulting, In
0606346-09	Hg: ppm Diss Mercury 7470	A	30				MACTEC Engineering & Consulting, In
0606346-09	Hg: ppm Mercury 7470	A	30				MACTEC Engineering & Consulting, In
0606346-08	Hg: ppm Diss Mercury 7470	A	31				MACTEC Engineering & Consulting, In
0606346-08	Hg: ppm Mercury 7470	A	31				MACTEC Engineering & Consulting, In
0606346-07	Hg: ppm Mercury 7470	A	32				MACTEC Engineering & Consulting, In
0606346-07	Hg: ppm Diss Mercury 7470	A	32				MACTEC Engineering & Consulting, In
0606346-06	Hg: ppm Mercury 7470	A	33				MACTEC Engineering & Consulting, In
0606346-06	Hg: ppm Diss Mercury 7470	A	33				MACTEC Engineering & Consulting, In
0606346-05	Hg: ppm Mercury 7470	A	34				MACTEC Engineering & Consulting, In
0606346-05	Hg: ppm Diss Mercury 7470	A	34				MACTEC Engineering & Consulting, In
0606346-03	Hg: ppm Diss Mercury 7470	A	35				MACTEC Engineering & Consulting, In
0606346-03	Hg: ppm Mercury 7470	A	35				MACTEC Engineering & Consulting, In
BPG0211-CCB3	QC		36				
BPG0211-CCV3	QC		37		6F23028		
0606346-02	Hg: ppm Mercury 7470	A	38				MACTEC Engineering & Consulting, In
0606346-02	Hg: ppm Diss Mercury 7470	A	38				MACTEC Engineering & Consulting, In
0606346-01	Hg: ppm Diss Mercury 7470	A	39				MACTEC Engineering & Consulting, In
0606346-01	Hg: ppm Mercury 7470	A	39				MACTEC Engineering & Consulting, In
BF62210-BLK1	QC		40				
BF62210-BS1	QC		41				
BF62210-BSD1	QC		42				
BF62210-DUP2	QC		43				
BF62210-MS2	QC		44				
BF62210-MSD2	QC		45				
BF62210-PS2	QC		46				
BF62303-BLK1	QC		47				
BPG0211-CCB4	QC		48				
BPG0211-CCV4	QC		49		6F23028		
BF62303-BS1	QC		50				
BF62303-BSD1	QC		51				
0606372-03	Hg: ppm Diss Mercury 7470	A	52				MACTEC Engineering & Consulting, In
0606372-03	Hg: ppm Mercury 7470	A	52				MACTEC Engineering & Consulting, In

Samples Loaded By

Date

Data Processed By

Date

## ANALYSIS SEQUENCE

BPG0211

Instrument: HG1

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606372-02	Hg: ppm Mercury 7470	A	53				MACTEC Engineering & Consulting, Inc
0606372-02	Hg: ppm Diss Mercury 7470	A	53				MACTEC Engineering & Consulting, Inc
0606372-01	Hg: ppm Mercury 7470	A	54				MACTEC Engineering & Consulting, Inc
0606372-01	Hg: ppm Diss Mercury 7470	A	54				MACTEC Engineering & Consulting, Inc
BPG0211-SRD1	QC		55				
BPG0211-SRD2	QC		56				
BPG0211-SRD3	QC		57				
BPG0211-CCB5	QC		58				
BPG0211-CCV5	QC		59		6F23028		

Samples Loaded By

Date

Data Processed By

Date

**ESS LABORATORY**  
**Data Review Check List for Mercury**

**Data Review Check List for Mercury**

<b>Project Number(s):</b> 06369, 371 tot/dis, 372 tot/dis, 375		<b>Run Date:</b> 6/23/06		
<b>Batch Number (s):</b> 062306B (data => A)				
<b>SOP Number:</b> 30 2451 or 30 7471A				
	Yes (X)	No (X)	N/A (X)	
1. Does the daily standard curve consist of a Calibration Blank and the required 5 Calibration Standards?	X			
2. Is the CCV standard analyzed immediately after the curve? Does this CCV meet QC limits ( $\pm 5\%$ for 245.1 and $\pm 10\%$ for 7470/1A.)	X			
3. Is the ICV from a second source and is its percent recovery within QC limits ( $\pm 10\%$ )?	X			
4. Is the method blank run at the required frequency (1 per batch) and not exceed the MRL?	X			
5. Is the LCS from a source separate from the calibration standards and is its percent recovery within QC limits ( $\pm 15\%$ for 245.1 and $\pm 20\%$ for 7470/1A)?	X			
6. Are Matrix Spikes run at the required frequency (1 per ten samples or per analytical batch)? Is the percent recovery for Matrix Spikes within 75-125% (80-120% for USACE/Navy)?	X			
7. Are Duplicates run the required frequency (1 per ten samples or per analytical batch)? Is the relative percent difference within QC limits ( $\leq 20\%$ for aqueous and $< 35\%$ for soil/sediments ( $< 20\%$ for USACE))?	X			
8. Is the CCV standard (STD3) also analyzed after every tenth sample and at the end of the sample run? Does this CCV meet QC limits ( $\pm 10\%$ )	X			
9. Are all the samples with concentrations greater than the highest standard used for initial calibration reprocessed and reanalyzed?			X	
10. Has the serial dilution been analyzed at the required frequency (once per analytical batch) and are results within criterion ( $\pm 10\%$ RPD)?	X			
11. Has the post dilution spike been analyzed at the required frequency (once per analytical batch) and are results within criterion (85-115%)?	X			
12. Are all sample holding times met?	X			
13. Are all non-conformances included and noted?	X			
14. Are all sample IDs and units checked for transcription errors?	X			

Comments on any "No" response:

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Analyst: Erin E Minot Date: 6/23/06

Second Level Review: EP Date: 6/24/06

Control Number: 30.0012-0602A (R. 1 8/2000) Page \_\_\_\_\_

## Autosampler Loading List

Sample Information File: 062306B.SIF

Methods: Hg\_5ppb Aq

Location	Elements	Solution
0	Hg	Wash Solution
1	Hg	Calib Blank
	Hg	ICCB: 0.0000 µg/L
2	Hg	Standard 0.25: 0.25 µg/L
3	Hg	Standard 0.5: 0.5 µg/L
4	Hg	Standard 1.0: 1.0 µg/L
5	Hg	Standard 3.0: 3.0 µg/L
	Hg	Standard 3.0: 3.0000 µg/L
	Hg	CCV: 3.0000 µg/L
6	Hg	Standard 5.0: 5.0 µg/L
7	Hg	ICV: 3.0000 µg/L
9	Hg	Sample: bf62303-blk1
10	Hg	Sample: bf62303-bs1
11	Hg	Sample: bf62303-bsd1
12	Hg	Sample: 0606369-02
13	Hg	Sample: 0606371-01 dis
14	Hg	Sample: 0606371-01
15	Hg	Sample: 0606372-01 dis
16	Hg	Sample: 0606372-02 dis
17	Hg	Sample: 0606372-03 dis
18	Hg	Sample: 0606372-01
19	Hg	Sample: 0606372-02
20	Hg	Sample: 0606372-03
21	Hg	Sample: 0606375-01
22	Hg	Sample: bf62303-dup1
23	Hg	Sample: bf62303-ms1
24	Hg	Sample: bf62303-msd1
25	Hg	Sample: bf62303-sd1 x5
26	Hg	Sample: bf62303-pds1



Element: Hg Seq. No.: 127 AS Loc.: 5 Date: 06/23/2006  
Sample ID: Standard 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.15	3.15	0.0808	0.4101	0.0836	02:58:12	No
2	3.14	3.14	0.0806	0.4071	0.0833	02:58:41	No
Mean:	3.15	3.15	0.0807				
SD :	0.006	0.006	0.0002				
%RSD:	0.2	0.2	0.1899				

QC value within specified limits. ✓

Element: Hg Seq. No.: 128 AS Loc.: 7 Date: 06/23/2006  
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.16	3.16	0.0810	0.4092	0.0837	03:00:07	No
2	3.15	3.15	0.0808	0.4091	0.0836	03:00:37	No
Mean:	3.15	3.15	0.0809				
SD :	0.005	0.005	0.0001				
%RSD:	0.2	0.2	0.1581				

QC value within specified limits. ✓

Element: Hg Seq. No.: 129 AS Loc.: 1 Date: 06/23/2006  
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	-0.0001	0.0139	0.0027	03:02:01	No
2	-0.01	-0.01	-0.0001	0.0131	0.0026	03:02:30	No
Mean:	0.00	0.00	-0.0001				
SD :	0.002	0.002	0.0000				
%RSD:	45.3	45.3	45.3408				

QC value within specified limits. ✓

Element: Hg Seq. No.: 130 AS Loc.: 9 Date: 06/23/2006  
Sample ID: bf62303-blk1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0001	0.0154	0.0028	03:03:52	No
2	0.00	0.00	0.0000	0.0152	0.0028	03:04:22	No
Mean:	0.00	0.00	0.0000				
SD :	0.000	0.000	0.0000				
%RSD:	24.7	24.7	24.7067				

ND

Element: Hg Seq. No.: 131 AS Loc.: 10 Date: 06/23/2006  
Sample ID: bf62303-bs1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.99	2.99	0.0767	0.3868	0.0794	03:05:45	No
2	2.99	2.99	0.0768	0.3854	0.0795	03:06:14	No
Mean:	2.99	2.99	0.0767				
SD :	0.003	0.003	0.0001				
%RSD:	0.1	0.1	0.1116				

100%

Element: Hg Seq. No.: 132 AS Loc.: 11 Date: 06/23/2006

Sample ID: bf62303-bsdl

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.03	3.03	0.0777	0.3946	0.0804	03:07:36	No
2	3.03	3.03	0.0778	0.3905	0.0805	03:08:05	No
Mean:	3.03	3.03	0.0777				
SD :	0.002	0.002	0.0000				
%RSD:							

*10190*       $\frac{3.03 - 2.99}{3.01} \cdot 100 = 1.33\%$

Element: Hg      Seq. No.: 133      AS Loc.: 12      Date: 06/23/2006  
Sample ID: 0606369-02

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.11	0.11	0.0028	0.0318	0.0055	03:09:30	No
2	0.10	0.10	0.0026	0.0306	0.0053	03:09:59	No
Mean:	0.10	0.10	0.0027				
SD :	0.004	0.004	0.0001				
%RSD:	3.9	3.9	3.8777				

*ND*

Element: Hg      Seq. No.: 134      AS Loc.: 13      Date: 06/23/2006  
Sample ID: 0606371-01 dis

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	-0.0001	0.0145	0.0026	03:11:24	No
2	-0.01	-0.01	-0.0002	0.0139	0.0026	03:11:53	No
Mean:	-0.01	-0.01	-0.0001				
SD :	0.001	0.001	0.0000				
%RSD:	18.9	18.9	18.9392				

*ND*

Element: Hg      Seq. No.: 135      AS Loc.: 14      Date: 06/23/2006  
Sample ID: 0606371-01

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0131	0.0025	03:13:20	No
2	-0.01	-0.01	-0.0002	0.0143	0.0026	03:13:49	No
Mean:	-0.01	-0.01	-0.0002				
SD :	0.003	0.003	0.0001				
%RSD:	32.6	32.6	32.5639				

*ND*

Element: Hg      Seq. No.: 136      AS Loc.: 15      Date: 06/23/2006  
Sample ID: 0606372-01 dis

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0002	0.0137	0.0025	03:15:16	No
2	-0.01	-0.01	-0.0002	0.0137	0.0025	03:15:45	No
Mean:	-0.01	-0.01	-0.0002				
SD :	0.000	0.000	0.0000				
%RSD:	0.2	0.2	0.2265				

*ND*

Element: Hg      Seq. No.: 137      AS Loc.: 16      Date: 06/23/2006  
Sample ID: 0606372-02 dis

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
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#	µg/L	µg/L	Signal	Area	Height		Stored
1	0.00	0.00	0.0000	0.0151	0.0027	03:17:13	No
2	0.00	0.00	-0.0001	0.0142	0.0026	03:17:42	No
Mean:	0.00	0.00	-0.0001				
SD :	0.003	0.003	0.0001				
%RSD:	114.7	114.7	114.7094				

Element: Hg Seq. No.: 138 AS Loc.: 17 Date: 06/23/2006  
Sample ID: 0606372-03 dis

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0002	0.0140	0.0025	03:19:07	No
2	-0.01	-0.01	-0.0004	0.0117	0.0024	03:19:36	No
Mean:	-0.01	-0.01	-0.0003				
SD :	0.005	0.005	0.0001				
%RSD:	47.8	47.8	47.7775				

Element: Hg Seq. No.: 139 AS Loc.: 18 Date: 06/23/2006  
Sample ID: 0606372-01

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0004	0.0113	0.0023	03:20:57	No
2	-0.02	-0.02	-0.0004	0.0117	0.0023	03:21:27	No
Mean:	-0.02	-0.02	-0.0004				
SD :	0.001	0.001	0.0000				
%RSD:	4.0	4.0	4.0438				

Element: Hg Seq. No.: 140 AS Loc.: 5 Date: 06/23/2006  
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.12	3.12	0.0801	0.4021	0.0828	03:22:50	No
2	3.13	3.13	0.0803	0.4007	0.0830	03:23:20	No
Mean:	3.12	3.12	0.0802				
SD :	0.005	0.005	0.0001				
%RSD:	0.2	0.2	0.1622				

QC value within specified limits. ✓

Element: Hg Seq. No.: 141 AS Loc.: 1 Date: 06/23/2006  
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0000	0.0149	0.0027	03:24:44	No
2	-0.01	-0.01	-0.0001	0.0134	0.0026	03:25:13	No
Mean:	0.00	0.00	-0.0001				
SD :	0.003	0.003	0.0001				
%RSD:	113.8	113.8	113.8185				

QC value within specified limits. ✓

Element: Hg Seq. No.: 142 AS Loc.: 19 Date: 06/23/2006  
Sample ID: 0606372-02

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
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1	-0.02	-0.02	-0.0004	0.0123	0.0023	03:26:35	No
2	-0.02	-0.02	-0.0004	0.0119	0.0023	03:27:04	No
Mean:	-0.02	-0.02	-0.0004				
SD :	0.001	0.001	0.0000				
%RSD:	6.4	6.4	6.3594				

=====  
 Element: Hg    Seq. No.: 143    AS Loc.: 20    Date: 06/23/2006  
 Sample ID: 0606372-03

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0001	0.0143	0.0026	03:28:27	No
2	-0.01	-0.01	-0.0003	0.0122	0.0024	03:28:57	No
Mean:	-0.01	-0.01	-0.0002				
SD :	0.005	0.005	0.0001				
%RSD:	58.0	58.0	57.9956				

=====  
 Element: Hg    Seq. No.: 144    AS Loc.: 21    Date: 06/23/2006  
 Sample ID: 0606375-01

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0005	0.0118	0.0022	03:30:20	No
2	-0.02	-0.02	-0.0006	0.0114	0.0022	03:30:49	No
Mean:	-0.02	-0.02	-0.0005				
SD :	0.002	0.002	0.0000				
%RSD:	8.0	8.0	7.9632				

=====  
 Element: Hg    Seq. No.: 145    AS Loc.: 22    Date: 06/23/2006  
 Sample ID: bf62303-dup1

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0132	0.0024	03:32:13	No
2	-0.02	-0.02	-0.0004	0.0116	0.0023	03:32:42	No
Mean:	-0.01	-0.01	-0.0003				
SD :	0.003	0.003	0.0001				
%RSD:	23.2	23.2	23.2129				

=====  
 Element: Hg    Seq. No.: 146    AS Loc.: 23    Date: 06/23/2006  
 Sample ID: bf62303-ms1

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.10	3.10	0.0796	0.4082	0.0823	03:34:06	No
2	3.09	3.09	0.0794	0.4039	0.0821	03:34:36	No
Mean:	3.10	3.10	0.0795				
SD :	0.005	0.005	0.0001				
%RSD:	0.2	0.2	0.1607				

=====  
 Element: Hg    Seq. No.: 147    AS Loc.: 24    Date: 06/23/2006  
 Sample ID: bf62303-msd1

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.13	3.13	0.0802	0.4096	0.0829	03:36:01	No
2	3.13	3.13	0.0803	0.4095	0.0830	03:36:30	No
Mean:	3.13	3.13	0.0802				

104%

3.13-3.10  
 3.115

SD : 0.002 0.002 0.0001  
 %RSD:

=====  
 Element: Hg Seq. No.: 148 AS Loc.: 25 Date: 06/23/2006  
 Sample ID: bf62303-sd1 x5  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.08	-0.08	-0.0022	0.0032	0.0006	03:37:55	No
2	-0.09	-0.09	-0.0023	0.0020	0.0005	03:38:24	No
Mean:	-0.09	-0.09	-0.0022				
SD :	0.002	0.002	0.0001				
%RSD:	2.9	2.9	2.8537				

*ND*

=====  
 Element: Hg Seq. No.: 149 AS Loc.: 26 Date: 06/23/2006  
 Sample ID: bf62303-pds1  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.01	3.01	0.0773	0.3952	0.0800	03:39:49	No
2	3.01	3.01	0.0772	0.3936	0.0800	03:40:18	No
Mean:	3.01	3.01	0.0772				
SD :	0.001	0.001	0.0000				
%RSD:							

*100%*

=====  
 Element: Hg Seq. No.: 150 AS Loc.: 5 Date: 06/23/2006  
 Sample ID: CCV  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.17	3.17	0.0814	0.4132	0.0842	03:41:43	No
2	3.18	3.18	0.0815	0.4109	0.0842	03:42:12	No
Mean:	3.17	3.17	0.0815				
SD :	0.002	0.002	0.0001				
%RSD:							

QC value within specified limits. ✓

=====  
 Element: Hg Seq. No.: 151 AS Loc.: 1 Date: 06/23/2006  
 Sample ID: ICCB  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0000	0.0151	0.0028	03:43:36	No
2	0.00	0.00	0.0000	0.0144	0.0027	03:44:06	No
Mean:	0.00	0.00	0.0000				
SD :	0.002	0.002	0.0000				
%RSD:	2458	2458	2457.8937				

QC value within specified limits. ✓

# Metals Logbooks

ESS LABORATORY  
METALS PREP LOGBOOK

ANALYST: RF  
 DATE: 6/23/06  
 TIME: 0930  
 Batch ID: BF62351  
BF62302

HNO<sub>3</sub> Reagent -  
 1:1 HCl Reagent -  
 1:1 HNO<sub>3</sub> Reagent -  
 H<sub>2</sub>O<sub>2</sub> Reagent -

AR#: 616501D  
 WR#: 616616c  
 WR#: UA  
 AR#: UA

Hot Plate Temp (°C)  
 HR#1 95  
~~UA~~  
~~A~~

Sample ID	matrix	pH	Initial wgt/vol	Final wgt/vol	QC ID/Lot #	QC wgt/vol	Method	Hot Plate Number	Comments
060636-03	PRQ	12	SD	SD	UA	UA	3005	HR#1	
-05		12	↓						
060636-02		12	SD						
0606375-01		12	100						
0606371-01a		12	SD						
-01		12							
BF62301-01a		12			UA	UA			
-W52		12			6E04037	0.25			
-W53		12			6F23022	2.0			
BF62302-01a		12			UA	UA			
-BS1		12			6E04037	0.25			
-BSD1		12			6E04037	0.25			
-BS2		12			6F23022	2.0			
-BSD2		12			6F23022	2.0			
0606372-01a		12			UA	UA			
-01a		12							
-03da		12							
-01	AP	12	SD	SD	UA	UA	3005	HR#1	

CONTROL# 30.0014-0603A Page \_\_\_\_\_

MATRIX KEY: AQ = AQUEOUS, S = SOIL, O = OIL, F = FILTER, D = SLUDGE

ESS LABORATORY  
METALS PREP LOGBOOK

ANALYST: *RP*  
 DATE: *6/17/86*  
 TIME: *0930*  
 Batch ID: *BF62352*  
*BF62357*

HNO<sub>3</sub> Reagent -  
 1:1 HCl Reagent-  
 1:1 HNO<sub>3</sub> Reagent-  
 H<sub>2</sub>O<sub>2</sub> Reagent-

AR#: *060581D*  
 WR#: *060616*  
 WR#: *UA*  
 AR#: *UA*

Hot Plate Temp (°C)  

HB#3	95°
<del>UA</del>	<del>   </del>

Sample ID	matrix	pH	Initial wgt/vol	Final wgt/vol	QC ID/Lot #	QC wgt/vol	Method	Hot Plate Number	Comments
<i>060581D</i>	<i>AQ</i>	<i>12</i>	<i>SD</i>	<i>SD</i>	<i>UA</i>	<i>UA</i>	<i>3005</i>	<i>HB#3</i>	
<i>BF62352-41d</i>		<i>12</i>			<i>UA</i>	<i>UA</i>			
<i>-WS1</i>		<i>12</i>			<i>LE04037</i>	<i>0.25</i>			
<i>-WS2</i>		<i>12</i>			<i>LE23022</i>	<i>2.0</i>			
<i>BF62357-RK1</i>		<i>12</i>			<i>UA</i>	<i>UA</i>			
<i>-BS1</i>		<i>12</i>			<i>LE04037</i>	<i>0.25</i>			
<i>-BSD1</i>		<i>12</i>			<i>LE04037</i>	<i>0.25</i>			
<i>0606346-01T</i>		<i>12</i>			<i>UA</i>	<i>UA</i>			
<i>-02T</i>		<i>12</i>			<i>UA</i>	<i>UA</i>			
<i>BF62357-41d</i>		<i>12</i>			<i>UA</i>	<i>UA</i>			
<i>-WS1</i>		<i>12</i>	<i>SD</i>	<i>SD</i>	<i>LE04037</i>	<i>0.25</i>	<i>3005</i>	<i>HB#3</i>	<i>Batch BF62301</i>
<i>0606334-01</i>	<i>AQ</i>	<i>12</i>	<i>1.0</i>	<i>SD</i>	<i>UA</i>	<i>UA</i>			

CONTROL# 30.0014-0603A Page \_\_\_\_\_

MATRIX KEY: AQ = AQUEOUS, S = SOIL, O = OIL, F = FILTER, D = SLUDGE



# ESS Laboratory Mercury Aqueous Prep Logbook

Analyst: JP  
 Date: 6/23/06  
 Batch ID: BF62303

Reagent IDs:

H<sub>2</sub>SO<sub>4</sub> A1060120A  
HNO<sub>3</sub> A1060501D  
KMnO<sub>4</sub> W1060607C

K<sub>2</sub>S<sub>2</sub>O<sub>8</sub> W1060519F  
NaCl-NH<sub>2</sub>OH\*HCl W1060530B  
Cal/Spk Std ID\*: CF20020  
ICV std ID\*\*: CF20021

Sample ID #	pH	Sample Init Vol (ml)	Cal/ ICV/ Spk Vol (ml)	Comments	Final Vol (ml)	Bath #	Temp (°C)	Time in	Time out
BF62303-BM	12	20	NA		40	HB43	95°	0945	1145
-BS1	12	↓	0.12		↓	↓	↓	↓	↓
-BSD1	12	↓	0.12		↓	↓	↓	↓	↓
0606369-02	12	↓	NA		↓	↓	↓	↓	↓
0606371-01dis	12	↓	↓		↓	↓	↓	↓	↓
-01	12	↓	↓		↓	↓	↓	↓	↓
0606372-01dis	12	↓	↓		↓	↓	↓	↓	↓
02dis	12	↓	↓		↓	↓	↓	↓	↓
-03dis	12	↓	↓		↓	↓	↓	↓	↓
-01	12	↓	↓		↓	↓	↓	↓	↓
-02	12	↓	↓		↓	↓	↓	↓	↓
-03	12	↓	↓		↓	↓	↓	↓	↓
0606375-01	12	↓	↓		↓	↓	↓	↓	↓
BF62303-Dpl	12	↓	NA		↓	↓	↓	↓	↓
-MS1	12	↓	0.12		↓	↓	↓	↓	↓
-MSD1	12	20	0.12		40	HB43	95°	0945	1145
<del>NA</del>									

\* Calibration standards are prepared daily at 0.0, 0.5, 1.0, 3.0, and 5.0 ppb. See SOP for preparation instructions.

\*\*ICV is prepared daily at a concentration of 2.0 ppb. See SOP for preparation instructions.

# Volatile Organics Data Package

# Volatile Organics Sample Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW25  
Date Sampled: 06/22/06 12:20  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606372  
ESS Laboratory Sample ID: 0606372-01  
Sample Matrix: Surface Water  
Analyst: RES

### 8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	06/26/06
<b>1,1,1-Trichloroethane</b>	<b>1.8</b>	ug/L	1.0	1	06/26/06
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	06/26/06
1,1,2-Trichloroethane	ND	ug/L	1.0	1	06/26/06
<b>1,1-Dichloroethane</b>	<b>1.2</b>	ug/L	1.0	1	06/26/06
1,1-Dichloroethene	ND	ug/L	1.0	1	06/26/06
1,1-Dichloropropene	ND	ug/L	2.0	1	06/26/06
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	06/26/06
1,2,3-Trichloropropane	ND	ug/L	1.0	1	06/26/06
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	06/26/06
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	06/26/06
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0	1	06/26/06
1,2-Dibromoethane	ND	ug/L	1.0	1	06/26/06
1,2-Dichlorobenzene	ND	ug/L	1.0	1	06/26/06
1,2-Dichloroethane	ND	ug/L	1.0	1	06/26/06
1,2-Dichloropropane	ND	ug/L	1.0	1	06/26/06
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	06/26/06
1,3-Dichlorobenzene	ND	ug/L	1.0	1	06/26/06
1,3-Dichloropropane	ND	ug/L	1.0	1	06/26/06
1,4-Dichlorobenzene	ND	ug/L	1.0	1	06/26/06
1,4-Dioxane - Screen	ND	ug/L	500	1	06/26/06
1-Chlorohexane	ND	ug/L	1.0	1	06/26/06
2,2-Dichloropropane	ND	ug/L	1.0	1	06/26/06
2-Butanone	ND	ug/L	25.0	1	06/26/06
2-Chlorotoluene	ND	ug/L	1.0	1	06/26/06
2-Hexanone	ND	ug/L	10.0	1	06/26/06
4-Chlorotoluene	ND	ug/L	1.0	1	06/26/06
4-Isopropyltoluene	ND	ug/L	1.0	1	06/26/06
4-Methyl-2-Pentanone	ND	ug/L	25.0	1	06/26/06
Acetone	ND	ug/L	25.0	1	06/26/06
Benzene	ND	ug/L	1.0	1	06/26/06
Bromobenzene	ND	ug/L	2.0	1	06/26/06
Bromochloromethane	ND	ug/L	1.0	1	06/26/06
Bromodichloromethane	ND	ug/L	1.0	1	06/26/06
Bromoform	ND	ug/L	1.0	1	06/26/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW25  
Date Sampled: 06/22/06 12:20  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606372  
ESS Laboratory Sample ID: 0606372-01  
Sample Matrix: Surface Water  
Analyst: RES

### 8260B Volatile Organic Compounds

Bromomethane	ND	ug/L	2.0	1	06/26/06
Carbon Disulfide	ND	ug/L	1.0	1	06/26/06
Carbon Tetrachloride	ND	ug/L	1.0	1	06/26/06
Chlorobenzene	ND	ug/L	1.0	1	06/26/06
Chloroethane	ND	ug/L	2.0	1	06/26/06
Chloroform	ND	ug/L	1.0	1	06/26/06
Chloromethane	ND	ug/L	2.0	1	06/26/06
<b>cis-1,2-Dichloroethene</b>	<b>4.5</b>	ug/L	1.0	1	06/26/06
cis-1,3-Dichloropropene	ND	ug/L	0.5	1	06/26/06
Dibromochloromethane	ND	ug/L	1.0	1	06/26/06
Dibromomethane	ND	ug/L	1.0	1	06/26/06
Dichlorodifluoromethane	ND	ug/L	2.0	1	06/26/06
Diethyl Ether	ND	ug/L	1.0	1	06/26/06
Di-isopropyl ether	ND	ug/L	1.0	1	06/26/06
Ethyl tertiary-butyl ether	ND	ug/L	1.0	1	06/26/06
Ethylbenzene	ND	ug/L	1.0	1	06/26/06
Hexachlorobutadiene	ND	ug/L	0.6	1	06/26/06
Isopropylbenzene	ND	ug/L	1.0	1	06/26/06
Methyl tert-Butyl Ether	ND	ug/L	1.0	1	06/26/06
Methylene Chloride	ND	ug/L	5.0	1	06/26/06
Naphthalene	ND	ug/L	1.0	1	06/26/06
n-Butylbenzene	ND	ug/L	1.0	1	06/26/06
n-Propylbenzene	ND	ug/L	1.0	1	06/26/06
sec-Butylbenzene	ND	ug/L	1.0	1	06/26/06
Styrene	ND	ug/L	1.0	1	06/26/06
tert-Butylbenzene	ND	ug/L	1.0	1	06/26/06
Tertiary-amyl methyl ether	ND	ug/L	1.0	1	06/26/06
Tetrachloroethene	ND	ug/L	1.0	1	06/26/06
Tetrahydrofuran	ND	ug/L	5.0	1	06/26/06
<b>Toluene</b>	<b>3.3</b>	ug/L	1.0	1	06/26/06
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	06/26/06
trans-1,3-Dichloropropene	ND	ug/L	0.5	1	06/26/06
<b>Trichloroethene</b>	<b>1.2</b>	ug/L	1.0	1	06/26/06
Trichlorofluoromethane	ND	ug/L	2.0	1	06/26/06
Vinyl Acetate	ND	ug/L	5.0	1	06/26/06
<b>Vinyl Chloride</b>	<b>1.5</b>	ug/L	1.0	1	06/26/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW25  
Date Sampled: 06/22/06 12:20  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606372  
ESS Laboratory Sample ID: 0606372-01  
Sample Matrix: Surface Water  
Analyst: RES

### 8260B Volatile Organic Compounds

Xylene O	ND	ug/L	1.0	1	06/26/06
Xylene P,M	2.3	ug/L	2.0	1	06/26/06
Xylenes (Total)	ND	ug/L	3.0		06/26/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	97 %		70-130
Surrogate: 4-Bromofluorobenzene	103 %		70-130
Surrogate: Dibromofluoromethane	107 %		70-130
Surrogate: Toluene-d8	100 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW25 D  
Date Sampled: 06/22/06 12:20  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606372  
ESS Laboratory Sample ID: 0606372-02  
Sample Matrix: Surface Water  
Analyst: RES

### 8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	06/26/06
<b>1,1,1-Trichloroethane</b>	<b>1.8</b>	ug/L	1.0	1	06/26/06
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	06/26/06
1,1,2-Trichloroethane	ND	ug/L	1.0	1	06/26/06
<b>1,1-Dichloroethane</b>	<b>1.1</b>	ug/L	1.0	1	06/26/06
1,1-Dichloroethene	ND	ug/L	1.0	1	06/26/06
1,1-Dichloropropene	ND	ug/L	2.0	1	06/26/06
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	06/26/06
1,2,3-Trichloropropane	ND	ug/L	1.0	1	06/26/06
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	06/26/06
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1	06/26/06
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0	1	06/26/06
1,2-Dibromoethane	ND	ug/L	1.0	1	06/26/06
1,2-Dichlorobenzene	ND	ug/L	1.0	1	06/26/06
1,2-Dichloroethane	ND	ug/L	1.0	1	06/26/06
1,2-Dichloropropane	ND	ug/L	1.0	1	06/26/06
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	06/26/06
1,3-Dichlorobenzene	ND	ug/L	1.0	1	06/26/06
1,3-Dichloropropane	ND	ug/L	1.0	1	06/26/06
1,4-Dichlorobenzene	ND	ug/L	1.0	1	06/26/06
1,4-Dioxane - Screen	ND	ug/L	500	1	06/26/06
1-Chlorohexane	ND	ug/L	1.0	1	06/26/06
2,2-Dichloropropane	ND	ug/L	1.0	1	06/26/06
2-Butanone	ND	ug/L	25.0	1	06/26/06
2-Chlorotoluene	ND	ug/L	1.0	1	06/26/06
2-Hexanone	ND	ug/L	10.0	1	06/26/06
4-Chlorotoluene	ND	ug/L	1.0	1	06/26/06
4-Isopropyltoluene	ND	ug/L	1.0	1	06/26/06
4-Methyl-2-Pentanone	ND	ug/L	25.0	1	06/26/06
Acetone	ND	ug/L	25.0	1	06/26/06
Benzene	ND	ug/L	1.0	1	06/26/06
Bromobenzene	ND	ug/L	2.0	1	06/26/06
Bromochloromethane	ND	ug/L	1.0	1	06/26/06
Bromodichloromethane	ND	ug/L	1.0	1	06/26/06
Bromoform	ND	ug/L	1.0	1	06/26/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW25 D  
Date Sampled: 06/22/06 12:20  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606372  
ESS Laboratory Sample ID: 0606372-02  
Sample Matrix: Surface Water  
Analyst: RES

### 8260B Volatile Organic Compounds

Bromomethane	ND	ug/L	2.0	1	06/26/06
Carbon Disulfide	ND	ug/L	1.0	1	06/26/06
Carbon Tetrachloride	ND	ug/L	1.0	1	06/26/06
Chlorobenzene	ND	ug/L	1.0	1	06/26/06
Chloroethane	ND	ug/L	2.0	1	06/26/06
Chloroform	ND	ug/L	1.0	1	06/26/06
Chloromethane	ND	ug/L	2.0	1	06/26/06
<b>cis-1,2-Dichloroethene</b>	<b>4.6</b>	ug/L	1.0	1	06/26/06
cis-1,3-Dichloropropene	ND	ug/L	0.5	1	06/26/06
Dibromochloromethane	ND	ug/L	1.0	1	06/26/06
Dibromomethane	ND	ug/L	1.0	1	06/26/06
Dichlorodifluoromethane	ND	ug/L	2.0	1	06/26/06
Diethyl Ether	ND	ug/L	1.0	1	06/26/06
Di-isopropyl ether	ND	ug/L	1.0	1	06/26/06
Ethyl tertiary-butyl ether	ND	ug/L	1.0	1	06/26/06
Ethylbenzene	ND	ug/L	1.0	1	06/26/06
Hexachlorobutadiene	ND	ug/L	0.6	1	06/26/06
Isopropylbenzene	ND	ug/L	1.0	1	06/26/06
Methyl tert-Butyl Ether	ND	ug/L	1.0	1	06/26/06
Methylene Chloride	ND	ug/L	5.0	1	06/26/06
Naphthalene	ND	ug/L	1.0	1	06/26/06
n-Butylbenzene	ND	ug/L	1.0	1	06/26/06
n-Propylbenzene	ND	ug/L	1.0	1	06/26/06
sec-Butylbenzene	ND	ug/L	1.0	1	06/26/06
Styrene	ND	ug/L	1.0	1	06/26/06
tert-Butylbenzene	ND	ug/L	1.0	1	06/26/06
Tertiary-amyl methyl ether	ND	ug/L	1.0	1	06/26/06
Tetrachloroethene	ND	ug/L	1.0	1	06/26/06
Tetrahydrofuran	ND	ug/L	5.0	1	06/26/06
<b>Toluene</b>	<b>2.7</b>	ug/L	1.0	1	06/26/06
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	06/26/06
trans-1,3-Dichloropropene	ND	ug/L	0.5	1	06/26/06
<b>Trichloroethene</b>	<b>1.1</b>	ug/L	1.0	1	06/26/06
Trichlorofluoromethane	ND	ug/L	2.0	1	06/26/06
Vinyl Acetate	ND	ug/L	5.0	1	06/26/06
<b>Vinyl Chloride</b>	<b>1.4</b>	ug/L	<b>1.266</b>	1	06/26/06



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW25 D  
Date Sampled: 06/22/06 12:20  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606372  
ESS Laboratory Sample ID: 0606372-02  
Sample Matrix: Surface Water  
Analyst: RES

### 8260B Volatile Organic Compounds

Xylene O	ND	ug/L	1.0	1	06/26/06
Xylene P,M	2.0	ug/L	2.0	1	06/26/06
Xylenes (Total)	ND	ug/L	3.0		06/26/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	97 %		70-130
Surrogate: 4-Bromofluorobenzene	103 %		70-130
Surrogate: Dibromofluoromethane	107 %		70-130
Surrogate: Toluene-d8	101 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW27  
Date Sampled: 06/22/06 12:00  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606372  
ESS Laboratory Sample ID: 0606372-03  
Sample Matrix: Surface Water  
Analyst: RES

### 8260B Volatile Organic Compounds

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	1	06/26/06
<b>1,1,1-Trichloroethane</b>	<b>1.8</b>	ug/L	1.0	1	06/26/06
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	1	06/26/06
1,1,2-Trichloroethane	ND	ug/L	1.0	1	06/26/06
<b>1,1-Dichloroethane</b>	<b>1.3</b>	ug/L	1.0	1	06/26/06
1,1-Dichloroethene	ND	ug/L	1.0	1	06/26/06
1,1-Dichloropropene	ND	ug/L	2.0	1	06/26/06
1,2,3-Trichlorobenzene	ND	ug/L	1.0	1	06/26/06
1,2,3-Trichloropropane	ND	ug/L	1.0	1	06/26/06
1,2,4-Trichlorobenzene	ND	ug/L	1.0	1	06/26/06
<b>1,2,4-Trimethylbenzene</b>	<b>1.1</b>	ug/L	1.0	1	06/26/06
1,2-Dibromo-3-Chloropropane	ND	ug/L	5.0	1	06/26/06
1,2-Dibromoethane	ND	ug/L	1.0	1	06/26/06
1,2-Dichlorobenzene	ND	ug/L	1.0	1	06/26/06
1,2-Dichloroethane	ND	ug/L	1.0	1	06/26/06
1,2-Dichloropropane	ND	ug/L	1.0	1	06/26/06
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1	06/26/06
1,3-Dichlorobenzene	ND	ug/L	1.0	1	06/26/06
1,3-Dichloropropane	ND	ug/L	1.0	1	06/26/06
1,4-Dichlorobenzene	ND	ug/L	1.0	1	06/26/06
1,4-Dioxane - Screen	ND	ug/L	500	1	06/26/06
1-Chlorohexane	ND	ug/L	1.0	1	06/26/06
2,2-Dichloropropane	ND	ug/L	1.0	1	06/26/06
2-Butanone	ND	ug/L	25.0	1	06/26/06
2-Chlorotoluene	ND	ug/L	1.0	1	06/26/06
2-Hexanone	ND	ug/L	10.0	1	06/26/06
4-Chlorotoluene	ND	ug/L	1.0	1	06/26/06
4-Isopropyltoluene	ND	ug/L	1.0	1	06/26/06
4-Methyl-2-Pentanone	ND	ug/L	25.0	1	06/26/06
Acetone	ND	ug/L	25.0	1	06/26/06
Benzene	ND	ug/L	1.0	1	06/26/06
Bromobenzene	ND	ug/L	2.0	1	06/26/06
Bromochloromethane	ND	ug/L	1.0	1	06/26/06
Bromodichloromethane	ND	ug/L	1.0	1	06/26/06
Bromoform	ND	ug/L	1.0	1	06/26/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW27  
Date Sampled: 06/22/06 12:00  
Percent Solids: N/A  
Initial Volume: 10  
Final Volume: 10  
Extraction Method: 5030B

ESS Laboratory Work Order: 0606372  
ESS Laboratory Sample ID: 0606372-03  
Sample Matrix: Surface Water  
Analyst: RES

### 8260B Volatile Organic Compounds

Bromomethane	ND	ug/L	2.0	1	06/26/06
Carbon Disulfide	ND	ug/L	1.0	1	06/26/06
Carbon Tetrachloride	ND	ug/L	1.0	1	06/26/06
Chlorobenzene	ND	ug/L	1.0	1	06/26/06
Chloroethane	ND	ug/L	2.0	1	06/26/06
Chloroform	ND	ug/L	1.0	1	06/26/06
Chloromethane	ND	ug/L	2.0	1	06/26/06
<b>cis-1,2-Dichloroethene</b>	<b>5.4</b>	ug/L	1.0	1	06/26/06
cis-1,3-Dichloropropene	ND	ug/L	0.5	1	06/26/06
Dibromochloromethane	ND	ug/L	1.0	1	06/26/06
Dibromomethane	ND	ug/L	1.0	1	06/26/06
Dichlorodifluoromethane	ND	ug/L	2.0	1	06/26/06
Diethyl Ether	ND	ug/L	1.0	1	06/26/06
Di-isopropyl ether	ND	ug/L	1.0	1	06/26/06
Ethyl tertiary-butyl ether	ND	ug/L	1.0	1	06/26/06
<b>Ethylbenzene</b>	<b>1.0</b>	ug/L	1.0	1	06/26/06
Hexachlorobutadiene	ND	ug/L	0.6	1	06/26/06
Isopropylbenzene	ND	ug/L	1.0	1	06/26/06
Methyl tert-Butyl Ether	ND	ug/L	1.0	1	06/26/06
Methylene Chloride	ND	ug/L	5.0	1	06/26/06
Naphthalene	ND	ug/L	1.0	1	06/26/06
n-Butylbenzene	ND	ug/L	1.0	1	06/26/06
n-Propylbenzene	ND	ug/L	1.0	1	06/26/06
sec-Butylbenzene	ND	ug/L	1.0	1	06/26/06
Styrene	ND	ug/L	1.0	1	06/26/06
tert-Butylbenzene	ND	ug/L	1.0	1	06/26/06
Tertiary-amyl methyl ether	ND	ug/L	1.0	1	06/26/06
Tetrachloroethene	ND	ug/L	1.0	1	06/26/06
Tetrahydrofuran	ND	ug/L	5.0	1	06/26/06
<b>Toluene</b>	<b>4.1</b>	ug/L	1.0	1	06/26/06
trans-1,2-Dichloroethene	ND	ug/L	1.0	1	06/26/06
trans-1,3-Dichloropropene	ND	ug/L	0.5	1	06/26/06
<b>Trichloroethene</b>	<b>1.4</b>	ug/L	1.0	1	06/26/06
Trichlorofluoromethane	ND	ug/L	2.0	1	06/26/06
Vinyl Acetate	ND	ug/L	5.0	1	06/26/06
<b>Vinyl Chloride</b>	<b>2.0</b>	ug/L	1.0	1	06/26/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SW27

Date Sampled: 06/22/06 12:00

Percent Solids: N/A

Initial Volume: 10

Final Volume: 10

Extraction Method: 5030B

ESS Laboratory Work Order: 0606372

ESS Laboratory Sample ID: 0606372-03

Sample Matrix: Surface Water

Analyst: RES

### 8260B Volatile Organic Compounds

Xylene O	1.2	ug/L	1.0	1	06/26/06
Xylene P,M	2.8	ug/L	2.0	1	06/26/06
Xylenes (Total)	4.0	ug/L	3.0		06/26/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	94 %		70-130
Surrogate: 4-Bromofluorobenzene	105 %		70-130
Surrogate: Dibromofluoromethane	105 %		70-130
Surrogate: Toluene-d8	102 %		70-130

# Volatile Organics Quality Control Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606372

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>8082 Polychlorinated Biphenyls (PCB)</b>										
<b>Batch BF62333 - 3510C</b>										
roclor 1268	ND	0.100	ug/L							
roclor 1268 (1)	ND	0.100	ug/L							
roclor 1268 (1) [2C]	ND	0.100	ug/L							
roclor 1268 (2)	ND	0.100	ug/L							
roclor 1268 (2) [2C]	ND	0.100	ug/L							
roclor 1268 (3)	ND	0.100	ug/L							
roclor 1268 (3) [2C]	ND	0.100	ug/L							
roclor 1268 (4)	ND	0.100	ug/L							
roclor 1268 (4) [2C]	ND	0.100	ug/L							
roclor 1268 (5)	ND	0.100	ug/L							
roclor 1268 (5) [2C]	ND	0.100	ug/L							
urrogate: Decachlorobiphenyl	0.272		ug/L	0.250		109	40-140			
urrogate: Decachlorobiphenyl [2C]	0.274		ug/L	0.250		110	40-140			
urrogate: Tetrachloro-m-xylene	0.236		ug/L	0.250		94	30-150			
urrogate: Tetrachloro-m-xylene [2C]	0.241		ug/L	0.250		96	40-140			
<b>CS</b>										
roclor 1016	4.80	0.500	ug/L	10.0		48	40-140			
roclor 1260	4.84	0.500	ug/L	10.0		48	40-140			
urrogate: Decachlorobiphenyl	0.262		ug/L	0.250		105	40-140			
urrogate: Decachlorobiphenyl [2C]	0.263		ug/L	0.250		105	40-140			
urrogate: Tetrachloro-m-xylene	0.226		ug/L	0.250		90	30-150			
urrogate: Tetrachloro-m-xylene [2C]	0.225		ug/L	0.250		90	40-140			
<b>CS Dup</b>										
roclor 1016	4.84	0.500	ug/L	10.0		48	40-140	0.8	50	
roclor 1260	4.99	0.500	ug/L	10.0		50	40-140	3	50	
urrogate: Decachlorobiphenyl	0.266		ug/L	0.250		106	40-140			
urrogate: Decachlorobiphenyl [2C]	0.265		ug/L	0.250		106	40-140			
urrogate: Tetrachloro-m-xylene	0.228		ug/L	0.250		91	30-150			
urrogate: Tetrachloro-m-xylene [2C]	0.226		ug/L	0.250		90	40-140			
<b>8260B Volatile Organic Compounds</b>										
<b>Batch BF62611 - 5030B</b>										
<b>Blank</b>										
1,1,2-Tetrachloroethane	ND	1.0	ug/L							
1,1-Trichloroethane	ND	1.0	ug/L							
1,2,2-Tetrachloroethane	ND	0.5	ug/L							
1,2-Trichloroethane	ND	1.0	ug/L							
1-Dichloroethane	ND	1.0	ug/L							
1-Dichloroethene	ND	1.0	ug/L							
1-Dichloropropene	ND	2.0	ug/L							
2,3-Trichlorobenzene	ND	1.0	ug/L							
2,3-Trichloropropane	ND	1.0	ug/L							
2,4-Trichlorobenzene	ND	1.0	ug/L							
2,4-Trimethylbenzene	ND	1.0	ug/L							

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606372

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>8260B Volatile Organic Compounds</b>										
<b>Batch BF62611 - 5030B</b>										
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							
1,2-Dichlorobenzene	ND	1.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
1,3,5-Trimethylbenzene	ND	1.0	ug/L							
1,3-Dichlorobenzene	ND	1.0	ug/L							
1,3-Dichloropropane	ND	1.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
1,4-Dioxane - Screen	ND	500	ug/L							
1-Chlorohexane	ND	1.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
1-Butanone	ND	25.0	ug/L							
1-Chlorotoluene	ND	1.0	ug/L							
1-Hexanone	ND	10.0	ug/L							
1-Chlorotoluene	ND	1.0	ug/L							
1-Isopropyltoluene	ND	1.0	ug/L							
1-Methyl-2-Pentanone	ND	25.0	ug/L							
acetone	ND	25.0	ug/L							
benzene	ND	1.0	ug/L							
bromobenzene	ND	2.0	ug/L							
bromochloromethane	ND	1.0	ug/L							
bromodichloromethane	ND	1.0	ug/L							
bromoform	ND	1.0	ug/L							
bromomethane	ND	2.0	ug/L							
Carbon Disulfide	ND	1.0	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
chlorobenzene	ND	1.0	ug/L							
chloroethane	ND	2.0	ug/L							
chloroform	ND	1.0	ug/L							
chloromethane	ND	2.0	ug/L							
is-1,2-Dichloroethene	ND	1.0	ug/L							
is-1,3-Dichloropropene	ND	0.5	ug/L							
ibromochloromethane	ND	1.0	ug/L							
ibromomethane	ND	1.0	ug/L							
ichlorodifluoromethane	ND	2.0	ug/L							
iethyl Ether	ND	1.0	ug/L							
i-isopropyl ether	ND	1.0	ug/L							
ethyl tertiary-butyl ether	ND	1.0	ug/L							
ethylbenzene	ND	1.0	ug/L							
hexachlorobutadiene	ND	0.6	ug/L							
isopropylbenzene	ND	1.0	ug/L							
ethyl tert-Butyl Ether	ND	1.0	ug/L							
ethylene Chloride	ND	5.0	ug/L							
naphthalene	ND	1.0	ug/L							
n-Butylbenzene	ND	1.0	ug/L							
n-Propylbenzene	ND	1.0	ug/L							

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606372

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>8260B Volatile Organic Compounds</b>										
<b>Batch BF62611 - 5030B</b>										
sec-Butylbenzene	ND	1.0	ug/L							
Styrene	ND	1.0	ug/L							
tert-Butylbenzene	ND	1.0	ug/L							
Tertiary-amyl methyl ether	ND	1.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							
Tetrahydrofuran	ND	5.0	ug/L							
Toluene	ND	1.0	ug/L							
trans-1,2-Dichloroethene	ND	1.0	ug/L							
trans-1,3-Dichloropropene	ND	0.5	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	2.0	ug/L							
Vinyl Acetate	ND	5.0	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylene O	ND	1.0	ug/L							
Xylene P,M	ND	2.0	ug/L							
Surrogate: 1,2-Dichloroethane-d4	23.8		ug/L	25.0		95	70-130			
Surrogate: 4-Bromofluorobenzene	25.9		ug/L	25.0		104	70-130			
Surrogate: Dibromofluoromethane	26.6		ug/L	25.0		106	70-130			
Surrogate: Toluene-d8	25.1		ug/L	25.0		100	70-130			
<b>CS</b>										
1,1,1,2-Tetrachloroethane	10.0		ug/L	10.0		100	70-130			
1,1,1-Trichloroethane	9.8		ug/L	10.0		98	70-130			
1,1,2,2-Tetrachloroethane	9.9		ug/L	10.0		99	70-130			
1,1,2-Trichloroethane	9.8		ug/L	10.0		98	70-130			
1,1-Dichloroethane	9.8		ug/L	10.0		98	70-130			
1,1-Dichloroethene	10.8		ug/L	10.0		108	70-130			
1,1-Dichloropropene	9.6		ug/L	10.0		96	70-130			
1,2,3-Trichlorobenzene	13.3		ug/L	10.0		133	70-130			+
1,2,3-Trichloropropane	8.8		ug/L	10.0		88	70-130			
1,2,4-Trichlorobenzene	10.9		ug/L	10.0		109	70-130			
1,2,4-Trimethylbenzene	10.0		ug/L	10.0		100	70-130			
1,2-Dibromo-3-Chloropropane	10.1		ug/L	10.0		101	70-130			
1,2-Dibromoethane	9.8		ug/L	10.0		98	70-130			
1,2-Dichlorobenzene	10.0		ug/L	10.0		100	70-130			
1,2-Dichloroethane	9.5		ug/L	10.0		95	70-130			
1,2-Dichloropropane	9.1		ug/L	10.0		91	70-130			
1,3,5-Trimethylbenzene	9.8		ug/L	10.0		98	70-130			
1,3-Dichlorobenzene	9.5		ug/L	10.0		95	70-130			
1,3-Dichloropropane	9.5		ug/L	10.0		95	70-130			
1,4-Dichlorobenzene	9.3		ug/L	10.0		93	70-130			
1,4-Dioxane - Screen	315		ug/L	200		158	70-130			+
1-Chlorohexane	9.4		ug/L	10.0		94	70-130			
1,2-Dichloropropane	10.3		ug/L	10.0		103	70-130			
1-Butanone	52.3		ug/L	50.0		105	70-130			
1-Chlorotoluene	10.1		ug/L	10.0		101	70-130			
1-Hexanone	48.5		ug/L	50.0		97	70-130			
1-Chlorotoluene	9.6		ug/L	10.0		96	70-130			



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606372

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>8260B Volatile Organic Compounds</b>										
<b>Batch BF62611 - 50308</b>										
1-Isopropyltoluene	10.0		ug/L	10.0		100	70-130			
1-Methyl-2-Pentanone	49.8		ug/L	50.0		100	70-130			
Acetone	59.2		ug/L	50.0		118	70-130			
Benzene	9.5		ug/L	10.0		95	70-130			
Bromobenzene	9.9		ug/L	10.0		99	70-130			
Bromochloromethane	10.6		ug/L	10.0		106	70-130			
Bromodichloromethane	10.3		ug/L	10.0		103	70-130			
Bromoform	9.7		ug/L	10.0		97	70-130			
Bromomethane	8.9		ug/L	10.0		89	70-130			
Carbon Disulfide	10.4		ug/L	10.0		104	70-130			
Carbon Tetrachloride	10.3		ug/L	10.0		103	70-130			
Chlorobenzene	9.7		ug/L	10.0		97	70-130			
Chloroethane	10.6		ug/L	10.0		106	70-130			
Chloroform	10.8		ug/L	10.0		108	70-130			
Chloromethane	9.4		ug/L	10.0		94	70-130			
cis-1,2-Dichloroethene	10.4		ug/L	10.0		104	70-130			
cis-1,3-Dichloropropene	9.0		ug/L	10.0		90	70-130			
Dibromochloromethane	10.1		ug/L	10.0		101	70-130			
Dibromomethane	10.4		ug/L	10.0		104	70-130			
Dichlorodifluoromethane	9.8		ug/L	10.0		98	70-130			
Diethyl Ether	10.4		ug/L	10.0		104	70-130			
Di-isopropyl ether	9.8		ug/L	10.0		98	70-130			
Diethyl tertiary-butyl ether	9.5		ug/L	10.0		95	70-130			
Diethylbenzene	10.0		ug/L	10.0		100	70-130			
Dichlorobutadiene	11.4		ug/L	10.0		114	70-130			
Dipropylbenzene	9.1		ug/L	10.0		91	70-130			
Diethyl tert-Butyl Ether	10.2		ug/L	10.0		102	70-130			
Diethylene Chloride	10.4		ug/L	10.0		104	70-130			
Diaphthalene	12.0		ug/L	10.0		120	70-130			
n-Butylbenzene	9.9		ug/L	10.0		99	70-130			
n-Propylbenzene	9.7		ug/L	10.0		97	70-130			
sec-Butylbenzene	9.9		ug/L	10.0		99	70-130			
Styrene	10.0		ug/L	10.0		100	70-130			
tert-Butylbenzene	10.0		ug/L	10.0		100	70-130			
Tertiary-aryl methyl ether	9.8		ug/L	10.0		98	70-130			
Tetrachloroethene	10.1		ug/L	10.0		101	70-130			
Tetrahydrofuran	10.5		ug/L	10.0		105	70-130			
Toluene	9.9		ug/L	10.0		99	70-130			
trans-1,2-Dichloroethene	10.4		ug/L	10.0		104	70-130			
trans-1,3-Dichloropropene	8.6		ug/L	10.0		86	70-130			
Trichloroethene	9.7		ug/L	10.0		97	70-130			
Trichlorofluoromethane	10.1		ug/L	10.0		101	70-130			
Vinyl Acetate	9.8		ug/L	10.0		98	70-130			
Vinyl Chloride	9.8		ug/L	10.0		98	70-130			
Xylene O	10.1		ug/L	10.0		101	70-130			
Xylene P,M	20.4		ug/L	20.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.4		ug/L	25.0		98	70-130			

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606372

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>8260B Volatile Organic Compounds</b>										
<b>Batch BF62611 - 5030B</b>										
Surrogate: 4-Bromofluorobenzene	25.0		ug/L	25.0		100	70-130			
Surrogate: Dibromofluoromethane	25.7		ug/L	25.0		103	70-130			
Surrogate: Toluene-d8	24.6		ug/L	25.0		98	70-130			
<b>.CS Dup</b>										
,1,1,2-Tetrachloroethane	9.9		ug/L	10.0		99	70-130	1	20	
,1,1-Trichloroethane	9.9		ug/L	10.0		99	70-130	1	20	
,1,2,2-Tetrachloroethane	9.6		ug/L	10.0		96	70-130	3	20	
,1,2-Trichloroethane	10.0		ug/L	10.0		100	70-130	2	20	
,1-Dichloroethane	9.4		ug/L	10.0		94	70-130	4	20	
,1-Dichloroethene	10.6		ug/L	10.0		106	70-130	2	20	
,1-Dichloropropene	9.6		ug/L	10.0		96	70-130	0	20	
,2,3-Trichlorobenzene	12.2		ug/L	10.0		122	70-130	9	20	
,2,3-Trichloropropane	8.9		ug/L	10.0		89	70-130	1	20	
,2,4-Trichlorobenzene	10.6		ug/L	10.0		106	70-130	3	20	
,2,4-Trimethylbenzene	9.9		ug/L	10.0		99	70-130	1	20	
,2-Dibromo-3-Chloropropane	10.0		ug/L	10.0		100	70-130	1	20	
,2-Dibromoethane	9.8		ug/L	10.0		98	70-130	0	20	
,2-Dichlorobenzene	9.9		ug/L	10.0		99	70-130	1	20	
,2-Dichloroethane	9.7		ug/L	10.0		97	70-130	2	20	
,2-Dichloropropane	9.1		ug/L	10.0		91	70-130	0	20	
,3,5-Trimethylbenzene	9.7		ug/L	10.0		97	70-130	1	20	
,3-Dichlorobenzene	9.7		ug/L	10.0		97	70-130	2	20	
,3-Dichloropropane	9.5		ug/L	10.0		95	70-130	0	20	
,4-Dichlorobenzene	9.3		ug/L	10.0		93	70-130	0	20	
,4-Dioxane - Screen	160		ug/L	200		80	70-130	65	20	+
-Chlorohexane	9.5		ug/L	10.0		95	70-130	1	20	
,2-Dichloropropane	10.2		ug/L	10.0		102	70-130	1	20	
-Butanone	52.2		ug/L	50.0		104	70-130	0.2	20	
-Chlorotoluene	9.8		ug/L	10.0		98	70-130	3	20	
-Hexanone	47.3		ug/L	50.0		95	70-130	3	20	
-Chlorotoluene	9.5		ug/L	10.0		95	70-130	1	20	
-Isopropyltoluene	10.0		ug/L	10.0		100	70-130	0	20	
-Methyl-2-Pentanone	50.8		ug/L	50.0		102	70-130	2	20	
acetone	55.5		ug/L	50.0		111	70-130	6	20	
benzene	9.6		ug/L	10.0		96	70-130	1	20	
chlorobenzene	10.0		ug/L	10.0		100	70-130	1	20	
chloromethane	10.6		ug/L	10.0		106	70-130	0	20	
chlorodichloromethane	10.4		ug/L	10.0		104	70-130	1	20	
chloroform	9.9		ug/L	10.0		99	70-130	2	20	
chloromethane	8.8		ug/L	10.0		88	70-130	1	20	
carbon Disulfide	9.8		ug/L	10.0		98	70-130	6	20	
carbon Tetrachloride	10.2		ug/L	10.0		102	70-130	1	20	
chlorobenzene	9.7		ug/L	10.0		97	70-130	0	20	
chloroethane	10.3		ug/L	10.0		103	70-130	3	20	
chloroform	10.8		ug/L	10.0		108	70-130	0	20	
chloromethane	8.9		ug/L	10.0		89	70-130	5	20	

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606372

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8260B Volatile Organic Compounds

##### Batch BF62611 - 5030B

cis-1,2-Dichloroethene	10.4		ug/L	10.0		104	70-130	0	20	
cis-1,3-Dichloropropene	9.2		ug/L	10.0		92	70-130	2	20	
Dibromochloromethane	10.1		ug/L	10.0		101	70-130	0	20	
Dibromomethane	10.5		ug/L	10.0		105	70-130	1	20	
Dichlorodifluoromethane	9.4		ug/L	10.0		94	70-130	4	20	
Diethyl Ether	9.8		ug/L	10.0		98	70-130	6	20	
Di-isopropyl ether	9.5		ug/L	10.0		95	70-130	3	20	
Ethyl tertiary-butyl ether	9.4		ug/L	10.0		94	70-130	1	20	
Ethylbenzene	9.9		ug/L	10.0		99	70-130	1	20	
Hexachlorobutadiene	10.6		ug/L	10.0		106	70-130	7	20	
Isopropylbenzene	9.0		ug/L	10.0		90	70-130	1	20	
Methyl tert-Butyl Ether	10.0		ug/L	10.0		100	70-130	2	20	
Methylene Chloride	10.2		ug/L	10.0		102	70-130	2	20	
Naphthalene	11.0		ug/L	10.0		110	70-130	9	20	
n-Butylbenzene	9.8		ug/L	10.0		98	70-130	1	20	
n-Propylbenzene	9.6		ug/L	10.0		96	70-130	1	20	
sec-Butylbenzene	9.9		ug/L	10.0		99	70-130	0	20	
Styrene	10.1		ug/L	10.0		101	70-130	1	20	
tert-Butylbenzene	10.0		ug/L	10.0		100	70-130	0	20	
tert-ary-amyl methyl ether	9.7		ug/L	10.0		97	70-130	1	20	
tetrachloroethene	10.2		ug/L	10.0		102	70-130	1	20	
tetrahydrofuran	11.2		ug/L	10.0		112	70-130	6	20	
Toluene	10.1		ug/L	10.0		101	70-130	2	20	
trans-1,2-Dichloroethene	10.2		ug/L	10.0		102	70-130	2	20	
trans-1,3-Dichloropropene	8.6		ug/L	10.0		86	70-130	0	20	
Trichloroethene	9.6		ug/L	10.0		96	70-130	1	20	
Trichlorofluoromethane	9.8		ug/L	10.0		98	70-130	3	20	
Vinyl Acetate	9.6		ug/L	10.0		96	70-130	2	20	
Vinyl Chloride	9.3		ug/L	10.0		93	70-130	5	20	
Xylene O	10.1		ug/L	10.0		101	70-130	0	20	
Xylene P,M	20.2		ug/L	20.0		101	70-130	1	20	
Surrogate: 1,2-Dichloroethane-d4	24.1		ug/L	25.0		96	70-130			
Surrogate: 4-Bromofluorobenzene	25.0		ug/L	25.0		100	70-130			
Surrogate: Dibromofluoromethane	25.6		ug/L	25.0		102	70-130			
Surrogate: Toluene-d8	24.8		ug/L	25.0		99	70-130			

#### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

##### Batch BF62310 - 3510C

##### Blank

1-Methylnaphthalene	ND	0.20	ug/L	
Benaphthene	ND	0.20	ug/L	
Benaphthylene	ND	0.20	ug/L	
Anthracene	ND	0.20	ug/L	
benzo(a)anthracene	ND	0.20	ug/L	
benzo(a)pyrene	ND	0.20	ug/L	
benzo(b)fluoranthene	ND	0.20	ug/L	
benzo(g,h,i)perylene	ND	0.20	ug/L	

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# Volatile Organics Calibration Data

## ANALYSIS SEQUENCE

BPE0238

Instrument: VMS1

Calibration ID: 0605009

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPE0238-TUN1	QC		1		6E31067		
BPE0238-CAL1	QC		2		6E31068	6E30041	
BPE0238-CAL2	QC		3		6E31069	6E30041	
BPE0238-CAL3	QC		4		6E31070	6E30041	
BPE0238-CAL4	QC		5		6E31071	6E30041	
BPE0238-CAL5	QC		6		6E31072	6E30041	
BPE0238-CAL6	QC		7		6E31073	6E30041	
BPE0238-SCV1	QC		8		6E31074	6E30041	

Samples Loaded By

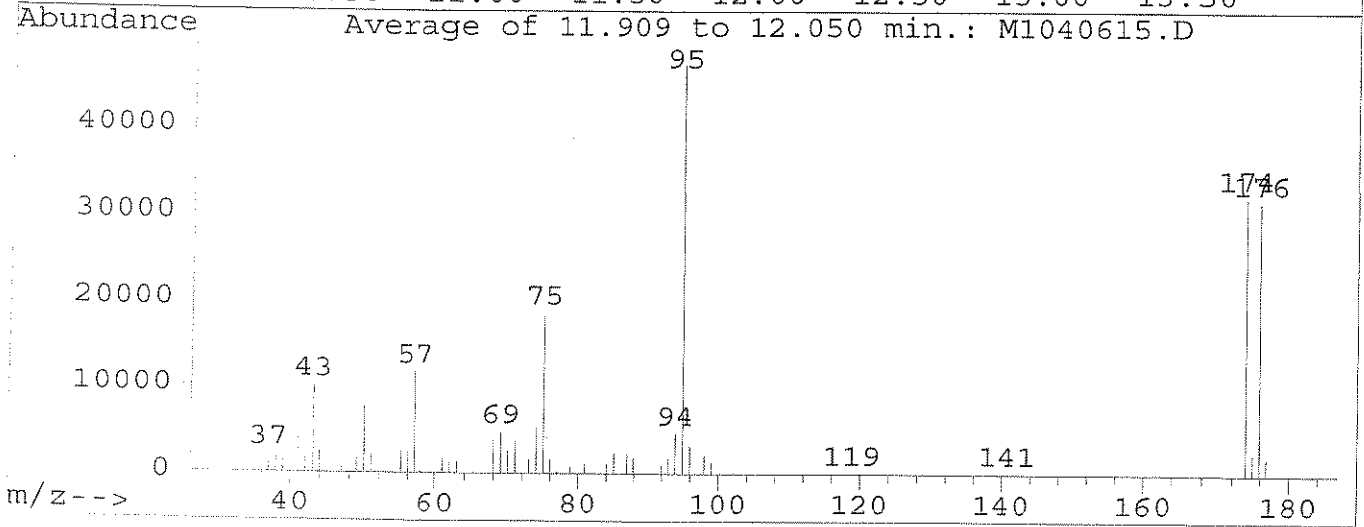
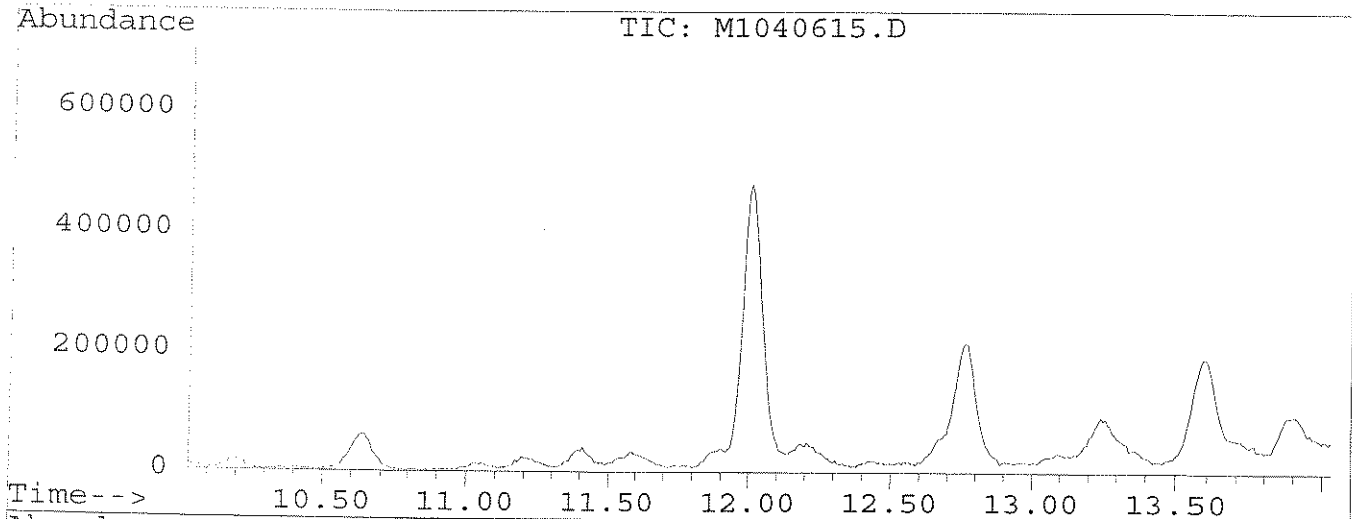
Date

Data Processed By

Date

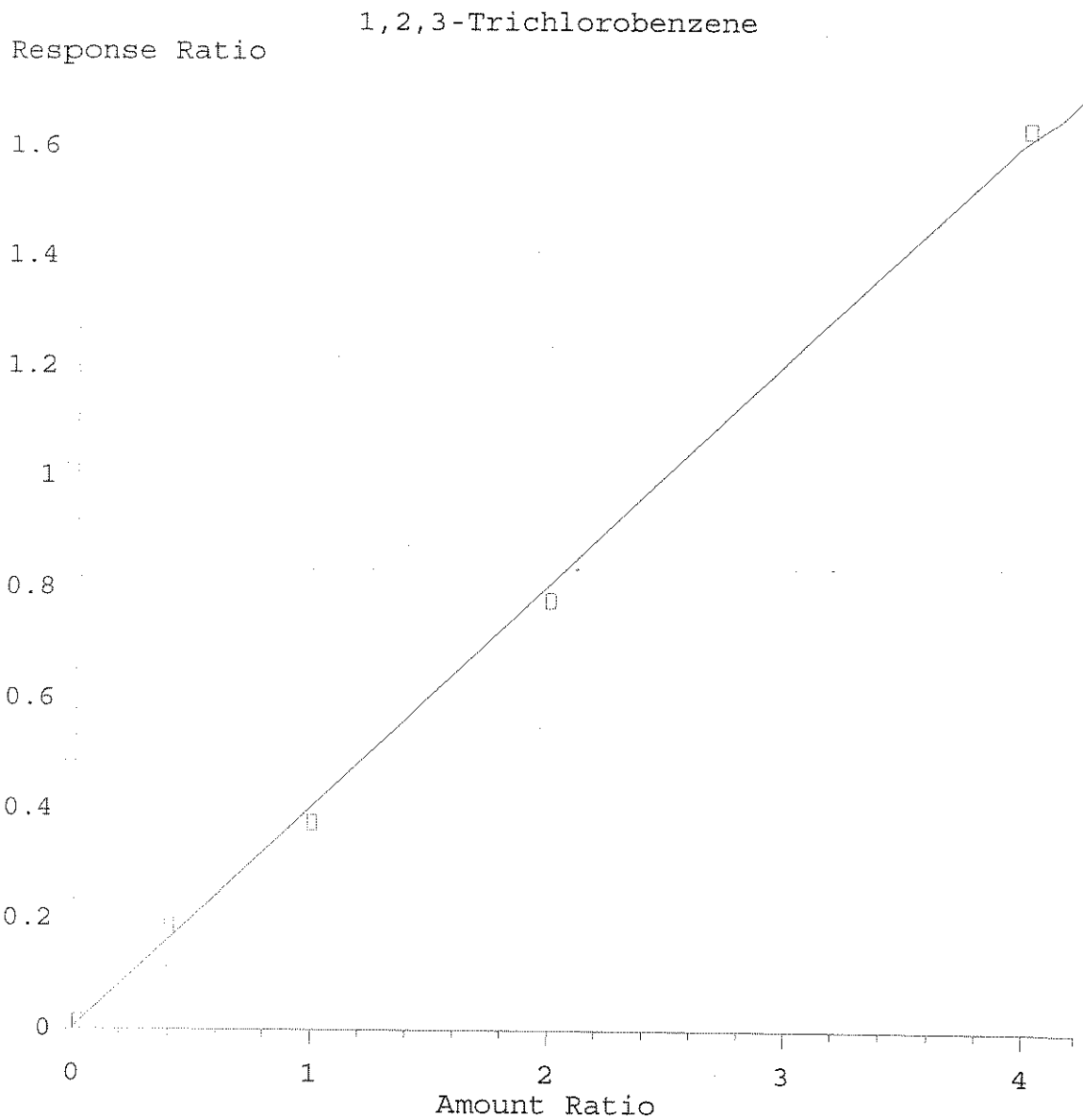
Data File : Q:\VOA\MS1\_MA\MA0506\MA053106\M1040615.D Vial: 1  
 Acq On : 31 May 106 6:35 am Operator: RES  
 Sample : BPE0238-TUN1 Inst : VOA MASS  
 Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI050406.M  
 Title : Element ID: 0605009



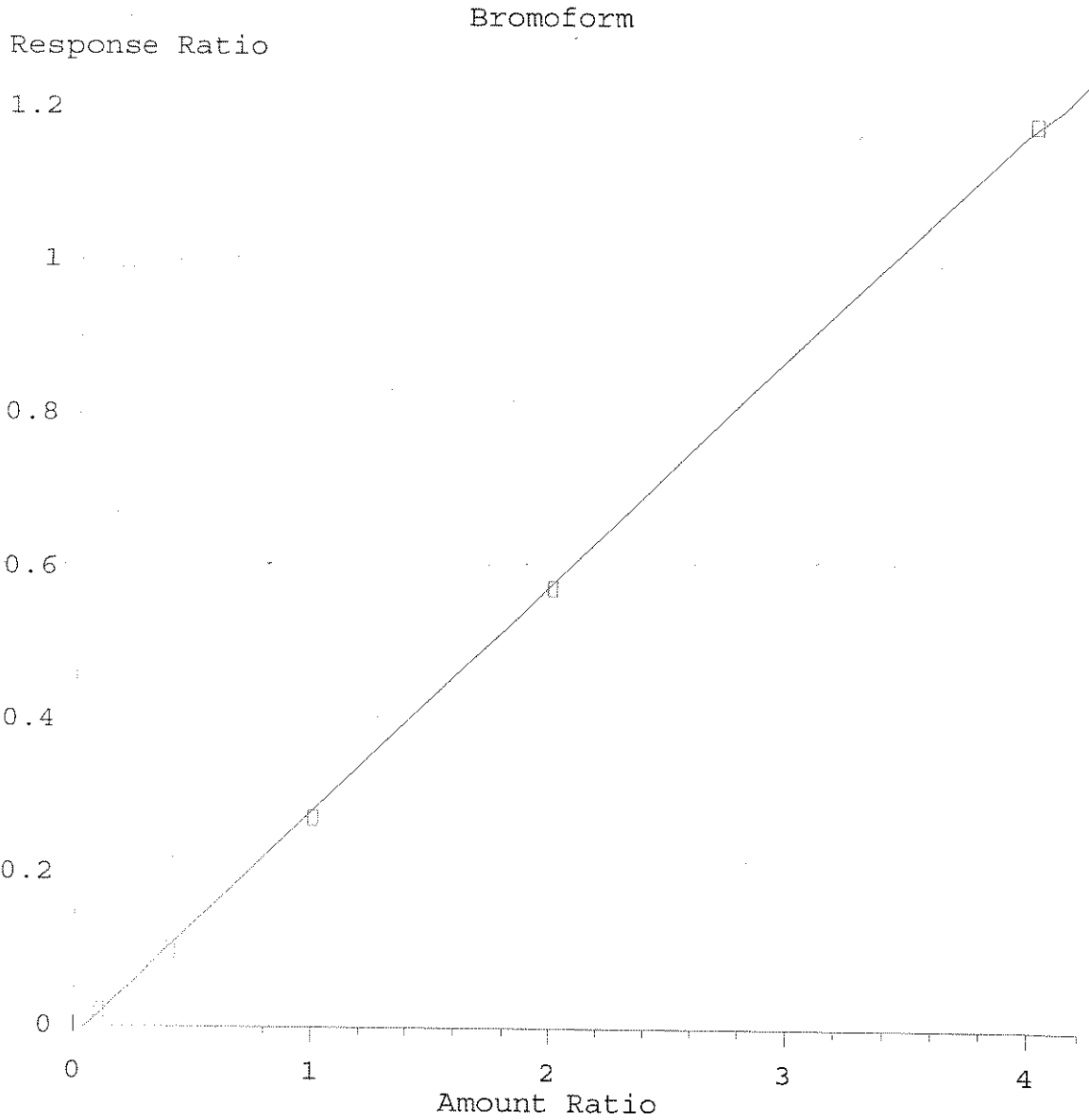
Peak Apex is scan: 1320

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.3	7706	PASS
75	95	30	60	39.3	18576	PASS
95	95	100	100	100.0	47254	PASS
96	95	5	9	7.0	3307	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	68.0	32132	PASS
175	174	5	9	7.6	2429	PASS
176	174	95	101	98.2	31559	PASS
177	176	5	9	6.2	1960	PASS



Resp Ratio =  $4.03e-001 * Amt + 3.46e-003$   
Coef of Det ( $r^2$ ) = 0.998    Curve Fit: Linear

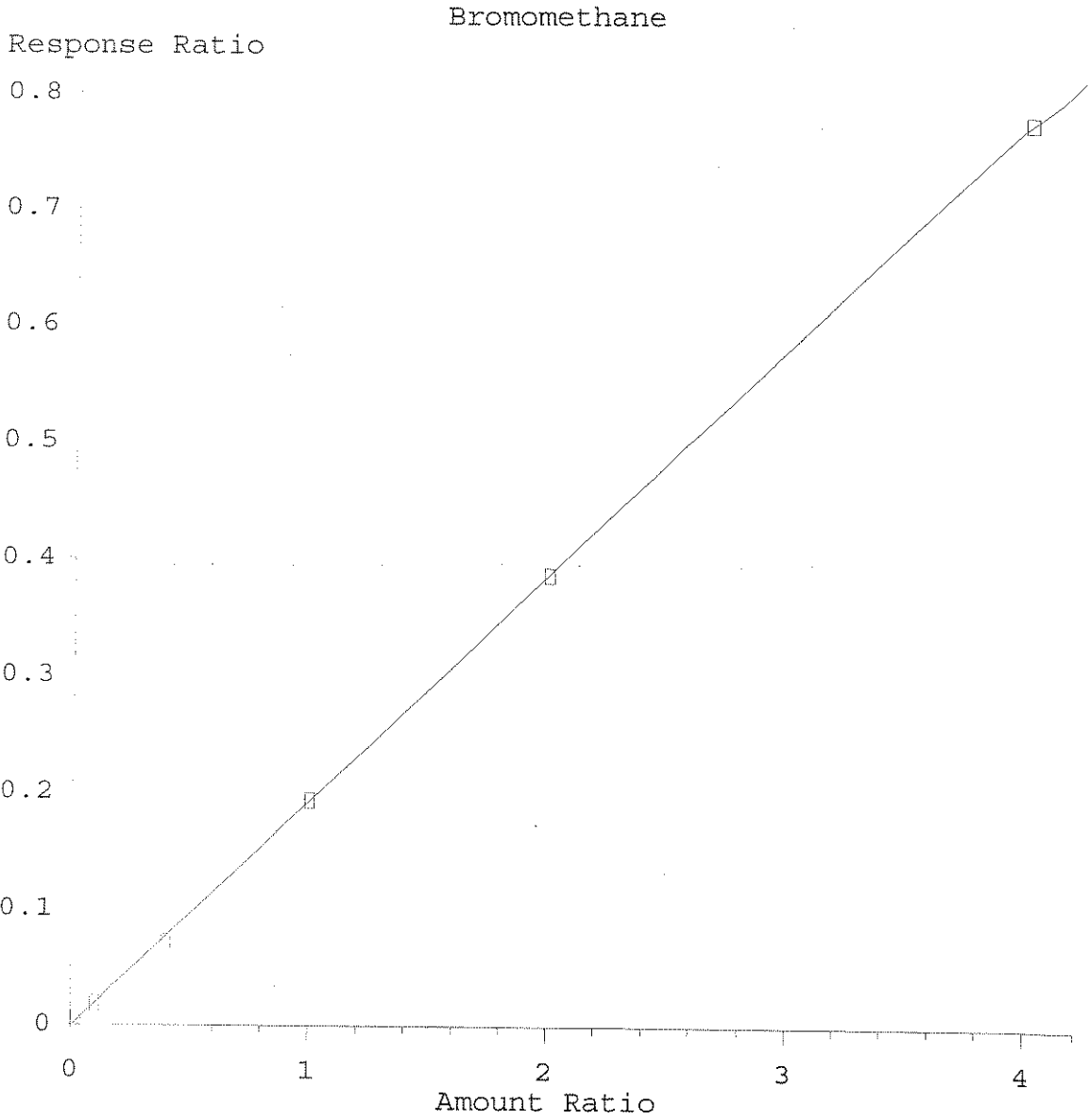
Method Name: C:\HPCHEM\1\METHODS\HI053106.M  
Calibration Table Last Updated: Wed May 31 12:01:45 2006



Resp Ratio = 2.97e-001 \* Amt - 1.39e-002  
Coef of Det (r<sup>2</sup>) = 1.000    Curve Fit: Linear

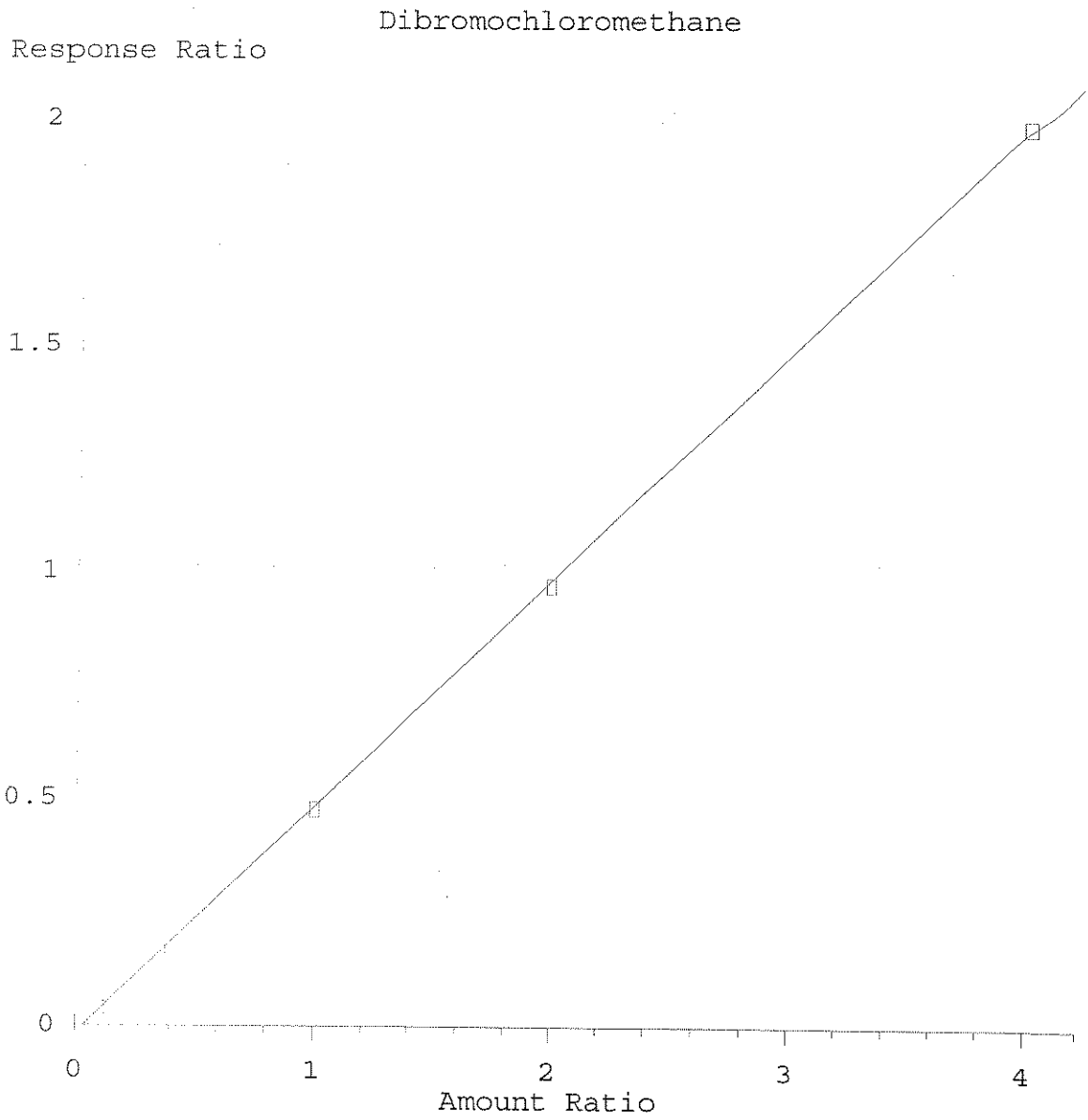
Method Name: C:\HPCHEM\1\METHODS\HI053106.M  
Calibration Table Last Updated: Wed May 31 11:56:37 2006





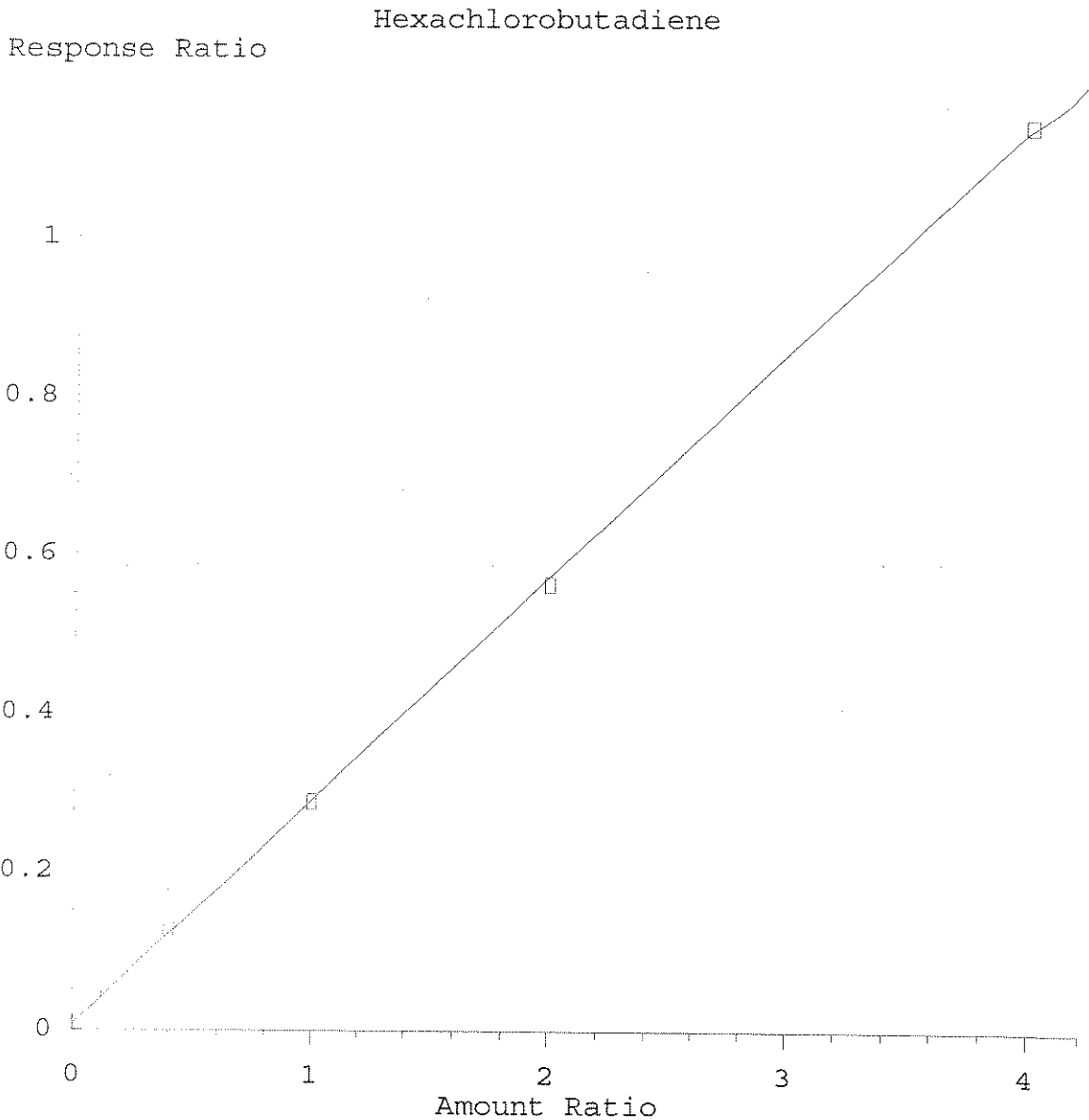
Resp Ratio = 1.94e-001 \* Amt - 1.33e-003  
Coef of Det (r<sup>2</sup>) = 1.000    Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\HI053106.M  
Calibration Table Last Updated: Wed May 31 11:49:13 2006



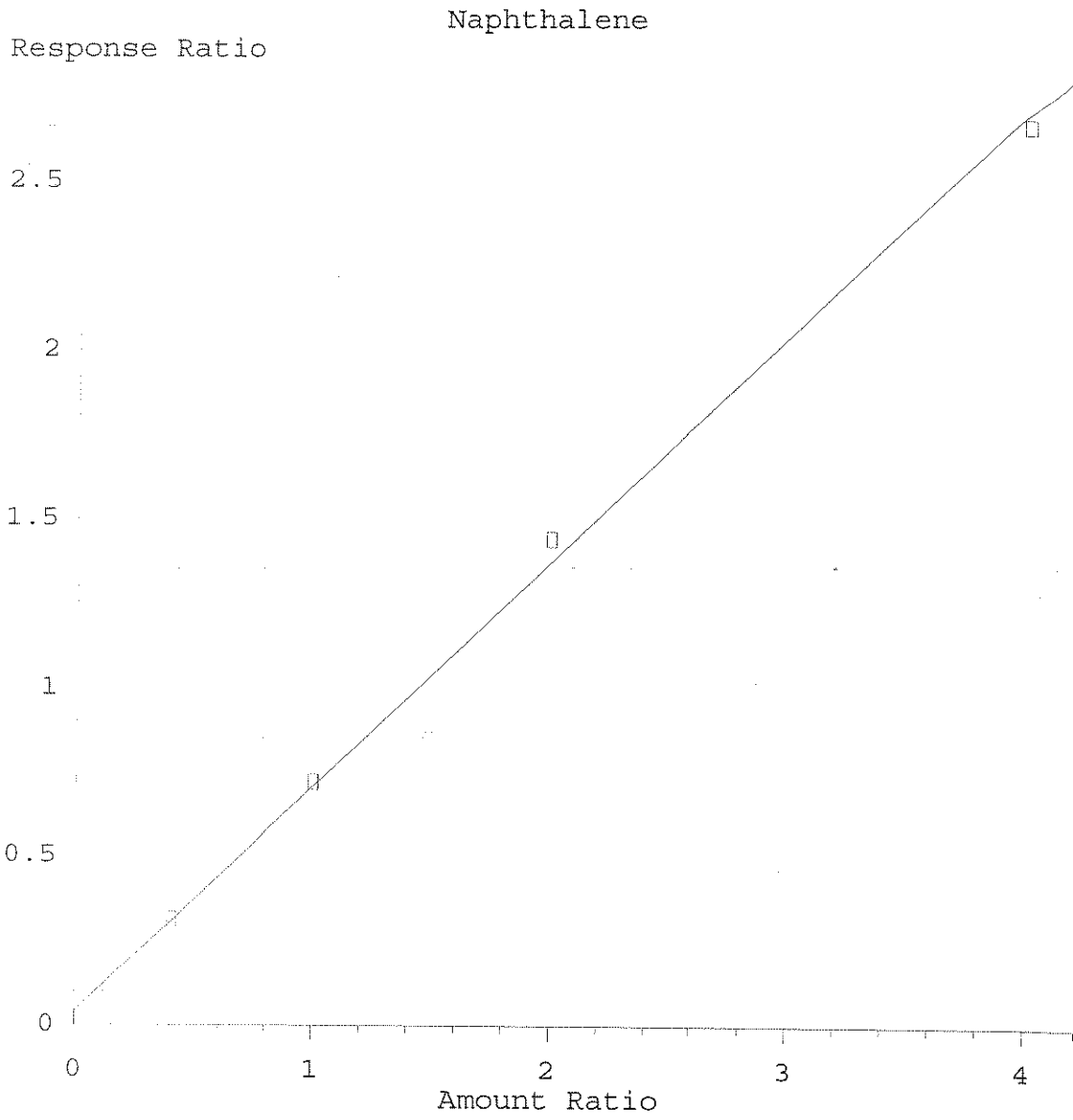
Resp Ratio = 4.99e-001 \* Amt - 1.71e-002  
Coef of Det (r^2) = 1.000    Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\HI053106.M  
Calibration Table Last Updated: Wed May 31 11:54:52 2006



Resp Ratio = 2.83e-001 \* Amt + 6.56e-003  
Coef of Det (r<sup>2</sup>) = 1.000    Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\HI053106.M  
Calibration Table Last Updated: Wed May 31 12:00:50 2006



Resp Ratio =  $6.67e-001 * Amt + 3.88e-002$   
Coef of Det ( $r^2$ ) = 0.998    Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\HI053106.M  
Calibration Table Last Updated: Wed May 31 12:01:26 2006

Response Factor Report VOA MASS

Method : C:\HPCHEM\1\METHODS\HI053106.M  
 Title : Element ID: 0605009  
 Last Update : Wed May 31 13:14:46 2006  
 Response via : Initial Calibration

Calibration Files

25 =M1040616.D 10 =M1040617.D 2.5 =M1040618.D  
 .5 =M1040619.D = 50 =M1040620.D

Compound	25	10	2.5	.5	50	50	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----							
2) Dichlorodifluoromet	0.387	0.362	0.307	0.275	0.382	0.378	0.348	13.28
3) Chloromethane	0.235	0.231	0.231	0.257	0.224	0.221	0.233	5.41
4) Vinyl Chloride	0.237	0.217	0.201	0.173	0.233	0.228	0.215	11.26
5) Bromomethane	0.193	0.180	0.189	0.282	0.193	0.194	0.205	18.47
6) Chloroethane	0.080	0.074	0.070	0.060	0.079	0.077	0.073	10.25
7) Trichlorofluorometh	0.497	0.464	0.416	0.389	0.483	0.493	0.457	9.69
8) Diethyl ether	0.152	0.146	0.134	0.108	0.151	0.147	0.140	12.04
9) Acrolein			0.134	0.108	0.151	0.147	0.000	-1.00
10) 1,1,2-Trichloro-1,2	0.482	0.455	0.397	0.354	0.467	0.461	0.436	11.35
11) Acetone	0.008	0.007	0.008	0.009	0.008	0.007	0.008	6.60
12) Iodomethane	0.516	0.501	0.536	0.501	0.490	0.007	0.509	3.52
13) Carbon Disulfide	0.628	0.592	0.533	0.507	0.606	0.598	0.577	8.13
14) M 1,1-Dichloroethene	0.240	0.228	0.209	0.192	0.234	0.230	0.222	8.08
15) Allyl Chloride	0.411	0.387	0.370	0.353	0.398	0.389	0.385	5.31
16) Methyl Acetate	0.104	0.108	0.119	0.104	0.101	0.389	0.107	6.65
17) Methylene Chloride	0.241	0.230	0.253	0.230	0.226	0.389	0.236	4.74
18) Methyl tert-Butyl E	0.468	0.452	0.443	0.433	0.465	0.457	0.453	2.91
19) Acrylonitrile	0.035	0.033	0.031	0.035	0.035	0.457	0.034	5.00
20) trans-1,2-Dichloroe	0.279	0.259	0.246	0.221	0.272	0.268	0.258	8.21
21) 1,1-Dichloroethane	0.452	0.425	0.397	0.366	0.441	0.434	0.419	7.60
22) Vinyl Acetate	0.826	0.790	0.795	0.744	0.810	0.788	0.792	3.50
23) Chloroprene	0.313	0.292	0.255	0.226	0.304	0.306	0.283	12.20
24) Di-isopropyl ether	0.993	0.956	0.932	0.873	0.958	0.936	0.941	4.21
25) Ethyl tertiary-buty	0.743	0.704	0.693	0.613	0.730	0.728	0.702	6.70
26) 2-Butanone	0.010	0.010	0.009	0.011	0.010	0.728	0.010	6.63
27) cis-1,2 Dichloroeth	0.266	0.249	0.236	0.219	0.257	0.253	0.247	6.78
28) 2,2-Dichloropropane	0.376	0.363	0.354	0.439	0.351	0.348	0.372	9.27
29) Methyl Acrylate	0.131	0.122	0.118	0.126	0.130	0.130	0.126	4.17
30) Bromochloromethane	0.158	0.147	0.148	0.123	0.155	0.149	0.147	8.39
31) Methacrylonitrile	0.078	0.085	0.089	0.075	0.077	0.072	0.079	8.18
32) Tetrahydrofuran	0.032	0.033	0.035	0.030	0.028	0.072	0.032	8.70
33) Chloroform	0.423	0.418	0.391	0.355	0.405	0.384	0.396	6.34
34) S Dibromofluoromethan	0.478	0.449	0.432	0.370	0.467	0.469	0.444	8.95
35) 1,1,1-Trichloroetha	0.451	0.421	0.362	0.327	0.440	0.451	0.409	12.69
36) Cyclohexane	0.299	0.285	0.268	0.241	0.281	0.254	0.272	7.84
37) 1-Chlorobutane	0.555	0.522	0.474	0.418	0.540	0.567	0.513	11.05
38) 1,1-Dichloropropene	0.372	0.361	0.328	0.296	0.366	0.361	0.347	8.49
39) Carbon Tetrachlorid	0.397	0.365	0.314	0.276	0.395	0.402	0.358	14.50
40) M Benzene	0.802	0.756	0.734	0.715	0.772	0.764	0.757	4.01
41) S 1,2-Dichloroethane-	0.229	0.219	0.202	0.177	0.230	0.230	0.215	9.93
42) 1,2-Dichloroethane	0.252	0.239	0.228	0.198	0.248	0.245	0.235	8.56
43) Tertiary-amyl methy	0.667	0.630	0.603	0.586	0.646	0.638	0.628	4.69

Response Factor Report VOA MASS

Method : C:\HPCHEM\1\METHODS\HI053106.M  
 Title : Element ID: 0605009  
 Last Update : Wed May 31 13:14:46 2006  
 Response via : Initial Calibration

Calibration Files

25 =M1040616.D 10 =M1040617.D 2.5 =M1040618.D  
 .5 =M1040619.D = 50 =M1040620.D

Compound	25	10	2.5	.5	50	50 <sup>no</sup>	1/24.5	Avg	%RSD
44) M Trichloroethene	0.334	0.318	0.296	0.283	0.331	0.335	0.316	6.98	
45) Methyl Cyclohexane	0.304	0.287	0.249	0.234	0.299	0.298	0.278	10.68	
46) 1,2-Dichloropropane	0.296	0.275	0.263	0.237	0.292	0.291	0.276	8.15	
47) Dibromomethane	0.206	0.191	0.190	0.146	0.202	0.200	0.189	11.52	
48) Methyl Methacrylate	0.174	0.165	0.173	0.145	0.179	0.175	0.168	7.46	
49) 1,4-Dioxane	0.001	0.002	0.002	0.002	0.001	0.001	0.001	33.64	
50) Bromodichloromethan	0.466	0.432	0.394	0.340	0.458	0.460	0.425	11.63	
51) 2-Nitropropane	0.034	0.030	0.029	0.035	0.032	0.460	0.032	8.18	
52) 2-Chloroethyl vinyl	0.111	0.106	0.099	0.082	0.112	0.107	0.103	10.81	
53) 4-Methyl-2-Pentanon	0.068	0.065	0.061	0.053	0.068	0.067	0.064	9.01	
54) cis-1,3-Dichloropro	0.427	0.388	0.370	0.311	0.419	0.422	0.389	11.40	
55) Toluene	0.569	0.539	0.509	0.479	0.552	0.545	0.532	6.09	
56) trans-1,3-Dichlorop	0.325	0.297	0.273	0.234	0.324	0.329	0.297	12.65	
57) 1,1,2-Trichloroetha	0.183	0.172	0.170	0.146	0.180	0.178	0.171	7.89	
58) I Chlorobenzene-d5	-----ISTD-----								
59) S Toluene-d8 (SURRE)	1.202	1.130	1.113	1.025	1.154	1.152	1.130	5.25	
60) 2-Hexanone	0.140	0.137	0.130	0.126	0.143	0.142	0.136	5.08	
61) Ethyl Methacrylate	0.384	0.359	0.345	0.309	0.383	0.385	0.361	8.39	
62) 1,3-Dichloropropane	0.463	0.437	0.421	0.371	0.456	0.451	0.433	7.82	
63) Tetrachloroethene	0.364	0.349	0.322	0.287	0.350	0.354	0.338	8.39	
64) Dibromochloromethan	0.476	0.430	0.380	0.306	0.485	0.496	0.429	17.24	
65) 1,2-Dibromoethane	0.404	0.377	0.355	0.305	0.407	0.410	0.376	10.85	
66) 1-Chlorohexane	0.452	0.427	0.407	0.436	0.435	0.434	0.432	3.38	
67) M Chlorobenzene	0.915	0.854	0.860	0.782	0.886	0.889	0.864	5.33	
68) 1,1,1,2-Tetrachloro	0.417	0.388	0.371	0.292	0.414	0.419	0.384	12.75	
69) Ethylbenzene	1.323	1.250	1.200	1.181	1.285	1.267	1.251	4.26	
70) Xylene P,M	0.556	0.528	0.506	0.469	0.534	0.535	0.521	5.78	
71) Xylene O	0.539	0.509	0.494	0.422	0.521	0.523	0.502	8.30	
72) Styrene	0.934	0.875	0.835	0.708	0.913	0.905	0.862	9.59	
73) Bromoform	0.273	0.249	0.205	0.141	0.288	0.295	0.242	24.48	
74) cis1,4-Dichloro-2-b	0.061	0.050	0.052	0.068	0.069	0.295	0.060	14.54	
75) S Bromofluorobenzene	0.666	0.638	0.632	0.651	0.642	0.632	0.643	2.04	
76) I 1,4 Dichlorobenzene-D	-----ISTD-----								
77) Isopropylbenzene	3.062	2.872	2.740	2.592	2.977	2.967	2.868	6.08	
78) Trans-1,4-Dichloro-	0.172	0.147	0.135	0.169	0.179	2.967	0.160	11.54	
79) 1,2,3-Trichloroprop	0.688	0.639	0.693	0.555	0.700	0.703	0.663	8.73	
80) Bromobenzene	0.858	0.802	0.789	0.696	0.860	0.864	0.811	8.02	
81) 1,1,2,2-Tetrachloro	0.781	0.735	0.745	0.702	0.771	0.752	0.748	3.77	
82) n-Propylbenzene	3.280	3.035	2.983	2.714	3.152	3.100	3.044	6.29	
83) 2-Chlorotoluene	2.334	2.163	2.212	2.070	2.208	2.143	2.188	4.03	
84) 4-Chlorotoluene	2.544	2.344	2.503	2.316	2.408	2.425	2.423	3.64	
85) 1,3,5-Trimethylbenz	2.319	2.226	2.155	2.027	2.269	2.253	2.208	4.70	

Response Factor Report VOA MASS

Method : C:\HPCHEM\1\METHODS\HI053106.M  
 Title : Element ID: 0605009  
 Last Update : Wed May 31 13:14:46 2006  
 Response via : Initial Calibration

Calibration Files

25 =M1040616.D 10 =M1040617.D 2.5 =M1040618.D  
 .5 =M1040619.D = 50 =M1040620.D

Compound	25	10	2.5	.5	$\Sigma$	$\frac{\Sigma}{n}$	Avg	%RSD
86) tert-Butylbenzene	2.902	2.694	2.672	2.531	2.822	2.834	2.742	4.96
87) Pentachloroethane	2.902	2.694	2.672	2.531	2.822	2.834	2.742	4.96
88) 1,2,4-Trimethylbenz	2.333	2.199	2.229	2.073	2.263	2.234	2.222	3.88
89) sec-Butylbenzene	2.860	2.709	2.686	2.487	2.785	2.778	2.718	4.73
90) 1,3 Dichlorobenzene	1.416	1.360	1.383	1.278	1.425	1.431	1.382	4.18
91) 4-Isopropyltoluene	2.251	2.191	2.082	2.102	2.188	2.191	2.168	2.92
92) 1,4 Dichlorobenzene	1.557	1.489	1.409	1.408	1.538	1.531	1.489	4.42
93) n-Butylbenzene	1.780	1.747	1.678	1.701	1.721	1.721	1.725	2.08
94) 1,2 Dichlorobenzene	1.239	1.209	1.169	1.033	1.244	1.247	1.190	6.94
95) Hexachloroethane	0.629	0.559	0.514	0.633	0.654	1.247	0.598	9.86
96) 1,2-Dibromo-3-Chlor	0.096	0.092	0.087	0.102	0.105	1.247	0.096	7.34
97) 1,2,4-Trichlorobenz	0.552	0.596	0.641	0.604	0.583	0.568	0.591	5.24
98) Hexachlorobutadiene	0.288	0.317	0.370	0.472	0.281	0.285	0.336	22.23
99) Naphthalene	0.720	0.780	0.847	1.058	0.721	0.667	0.799	17.67
100) 1,2,3-Trichlorobenz	0.376	0.472	0.575	0.702	0.390	0.409	0.487	26.28

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1\_MA\MA0506\MA053106\M1040623.D Vial : 9  
 Acq On : 31 May 106 10:14 am Operator : RES  
 Sample : BPE0238-SCV1 Inst : VOA MASS  
 Misc : 100 Multiplr : 1.00

Method : C:\HPCHEM\1\METHODS\HI053106.M  
 Title : Element ID: 0605009  
 Last Update : Wed May 31 13:14:46 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	103	0.00
2	Dichlorodifluoromethane	0.348	0.372	-6.8	99	0.00
3	Chloromethane	0.233	0.226	3.0	99	0.00
4	Vinyl Chloride	0.215	0.227	-5.8	99	0.00
5	Bromomethane	0.205	0.190	7.2	101	0.00
6	Chloroethane	0.073	0.081	-10.6	104	0.01
7	Trichlorofluoromethane	0.457	0.462	-1.1	96	0.00
8	Diethyl ether	0.140	0.153	-9.8	103	0.01
9	Acrolein	0.000	0.002	0.0	0#	0.07
10	1,1,2-Trichloro-1,2,2-trifl	0.436	0.457	-4.9	98	0.00
11	Acetone	0.008	0.008	0.6	105	0.00
12	Iodomethane	0.509	0.540	-6.1	108	0.01
13	Carbon Disulfide	0.577	0.640	-10.9	105	0.00
14 M	1,1-Dichloroethene	0.222	0.251	-12.8	107	0.00
15	Allyl Chloride	0.385	0.385	0.0	96	0.00
16	Methyl Acetate	0.107	0.106	1.3	105	0.01
17	Methylene Chloride	0.236	0.238	-0.9	102	0.00
18	Methyl tert-Butyl Ether	0.453	0.473	-4.5	104	0.01
19	Acrylonitrile	0.034	0.034	-2.0	102	0.00
20	trans-1,2-Dichloroethene	0.258	0.273	-6.1	101	0.00
21	1,1-Dichloroethane	0.419	0.432	-2.9	98	0.00
22	Vinyl Acetate	0.792	0.792	0.0	99	0.00
23	Chloroprene	0.283	0.000	100.0#	0#	-4.27#
24	Di-isopropyl ether	0.941	0.986	-4.7	102	0.00
25	Ethyl tertiary-butyl ether	0.702	0.701	0.2	97	0.00
26	2-Butanone	0.010	0.011	-4.6	104	0.00
27	cis-1,2 Dichloroethene	0.247	0.272	-10.4	105	0.00
28	2,2-Dichloropropane	0.372	0.347	6.7	95	0.00
29	Methyl Acrylate	0.126	0.127	-0.4	100	0.00
30	Bromochloromethane	0.147	0.157	-6.9	102	0.00
31	Methacrylonitrile	0.079	0.077	3.0	101	0.02
32	Tetrahydrofuran	0.032	0.033	-5.0	107	0.00
33	Chloroform	0.396	0.427	-7.8	104	0.00
34 S	Dibromofluoromethane (SURR)	0.444	0.435	2.2	94	0.00
35	1,1,1-Trichloroethane	0.409	0.434	-6.1	99	0.00
36	Cyclohexane	0.272	0.277	-2.2	96	0.00
37	1-Chlorobutane	0.513	0.529	-3.1	98	0.00
38	1,1-Dichloropropene	0.347	0.355	-2.3	98	0.00
39	Carbon Tetrachloride	0.358	0.391	-9.1	101	0.00
40 M	Benzene	0.757	0.777	-2.6	100	0.00
41 S	1,2-Dichloroethane-d4 (SURR)	0.215	0.213	0.8	96	0.00
42	1,2-Dichloroethane	0.235	0.237	-0.7	96	0.00

(#) = Out of Range



Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1\_MA\MA0506\MA053106\M1040623.D Vial : 9  
 Acq On : 31 May 106 10:14 am Operator: RES  
 Sample : BPE0238-SCV1 Inst : VOA MASS  
 Misc : 100 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI053106.M  
 Title : Element ID: 0605009  
 Last Update : Wed May 31 13:14:46 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	Tertiary-amyl methyl ether	0.628	0.652	-3.7	101	0.00
44 M	Trichloroethene	0.316	0.322	-1.9	99	0.00
45	Methyl Cyclohexane	0.278	0.305	-9.7	103	0.00
46	1,2-Dichloropropane	0.276	0.282	-2.4	98	0.00
47	Dibromomethane	0.189	0.203	-7.6	102	0.00
48	Methyl Methacrylate	0.168	0.177	-5.3	105	0.00
49	1,4-Dioxane	0.001	0.001	27.4	111	0.01
50	Bromodichloromethane	0.425	0.471	-10.9	104	0.00
51	2-Nitropropane	0.032	0.030	6.8	90	-0.02
52	2-Chloroethyl vinyl ether	0.103	0.021	79.5#	19#	0.00
53	4-Methyl-2-Pentanone	0.064	0.068	-6.6	103	0.00
54	cis-1,3-Dichloropropene	0.389	0.396	-1.7	95	0.00
55	Toluene	0.532	0.560	-5.2	101	0.00
56	trans-1,3-Dichloropropene	0.297	0.283	4.8	90	0.00
57	1,1,2-Trichloroethane	0.171	0.177	-3.0	100	0.00
58 I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
59 S	Toluene-d8 (SURR)	1.130	1.082	4.2	93	0.00
60	2-Hexanone	0.136	0.143	-4.8	105	0.00
61	Ethyl Methacrylate	0.361	0.387	-7.3	104	0.00
62	1,3-Dichloropropane	0.433	0.453	-4.7	101	0.00
63	Tetrachloroethene	0.338	0.358	-6.1	102	0.00
64	Dibromochloromethane	0.429	0.474	-10.6	103	0.00
65	1,2-Dibromoethane	0.376	0.394	-4.6	101	0.00
66	1-Chlorohexane	0.432	0.437	-1.1	100	0.00
67 M	Chlorobenzene	0.864	0.868	-0.4	98	0.00
68	1,1,1,2-Tetrachloroethane	0.384	0.402	-4.8	99	0.00
69	Ethylbenzene	1.251	1.326	-6.0	103	0.00
70	Xylene P,M	0.521	0.540	-3.6	100	0.00
71	Xylene O	0.502	0.523	-4.3	100	0.00
72	Styrene	0.862	0.918	-6.5	101	0.00
73	Bromoform	0.242	0.276	-14.3	104	0.00
74	cis1,4-Dichloro-2-butene	0.060	0.000	100.0#	0#	-11.89#
75 S	Bromofluorobenzene (SURR)	0.643	0.597	7.2	92	0.00
76 I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	103	0.00
77	Isopropylbenzene	2.868	2.752	4.1	92	0.00
78	Trans-1,4-Dichloro-2-Butene	0.160	0.154	4.0	92	0.01
79	1,2,3-Trichloropropane	0.663	0.677	-2.2	101	0.00
80	Bromobenzene	0.811	0.873	-7.6	104	0.00
81	1,1,2,2-Tetrachloroethane	0.748	0.747	0.1	98	0.00
82	n-Propylbenzene	3.044	3.187	-4.7	100	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1\_MA\MA0506\MA053106\M1040623.D Vial : 9  
 Acq On : 31 May 106 10:14 am Operator: RES  
 Sample : BPE0238-SCV1 Inst : VOA MASS  
 Misc : 100 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI053106.M  
 Title : Element ID: 0605009  
 Last Update : Wed May 31 13:14:46 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	2-Chlorotoluene	2.188	2.212	-1.1	97	0.00
84	4-Chlorotoluene	2.423	2.399	1.0	97	0.01
85	1,3,5-Trimethylbenzene	2.208	2.272	-2.9	101	0.00
86	tert-Butylbenzene	2.742	2.826	-3.1	100	0.00
87	Pentachloroethane	2.742	2.826	-3.1	100	0.00
88	1,2,4-Trimethylbenzene	2.222	2.329	-4.8	102	0.00
89	sec-Butylbenzene	2.718	2.797	-2.9	100	0.00
90	1,3 Dichlorobenzene	1.382	1.358	1.8	98	0.00
91	4-Isopropyltoluene	2.168	2.197	-1.4	100	0.00
92	1,4 Dichlorobenzene	1.489	1.468	1.4	97	0.00
93	n-Butylbenzene	1.725	1.805	-4.6	104	0.00
94	1,2 Dichlorobenzene	1.190	1.221	-2.6	101	0.00
95	Hexachloroethane	0.598	0.614	-2.8	100	0.00
96	1,2-Dibromo-3-Chloropropane	0.096	0.097	-1.0	104	0.00
97	1,2,4-Trichlorobenzene	0.591	0.589	0.2	110	0.00
98	Hexachlorobutadiene	0.336	0.308	8.1	110	0.00
99	Naphthalene	0.799	0.749	6.3	107	0.00
100	1,2,3-Trichlorobenzene	0.487	0.417	14.5	114	0.00

(#) = Out of Range

M1040623.D HI053106.M

SPCC's out = 0 CCC's out = 0

Thu Jun 01 09:51:36 2006

Quantitation Report

Data File : Q:\VOA\MS1\_MA\MA0506\MA053106\M1040623.D Vial: 9  
 Acq On : 31 May 106 10:14 am Operator: RES  
 Sample : BPE0238-SCV1 Inst : VOA MASS  
 Misc : 100 Multiplr: 1.00  
 Quant Time: Jun 1 9:50 19106

Method : C:\HPCHEM\1\METHODS\HI053106.M  
 Title : Element ID: 0605009  
 Last Update : Wed May 31 13:14:46 2006  
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.12	96	3800407	25.00	ug/l	0.00
58) Chlorobenzene-d5	10.18	117	2892073	25.00	ug/l	0.00
76) 1,4 Dichlorobenzene-D4	13.88	152	1305712	25.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
34) Dibromofluoromethane (SURR)	5.35	111	1651984	24.46	ug/l	97.82%
41) 1,2-Dichloroethane-d4 (SURR)	5.74	65	809167	24.81	ug/l	99.24%
59) Toluene-d8 (SURR)	8.13	98	3128444	23.94	ug/l	95.77%
75) Bromofluorobenzene (SURR)	12.01	95	1726078	23.19	ug/l	92.76%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	1413585	26.69	ug/l	98
3) Chloromethane	1.75	50	859353	24.26	ug/l	100
4) Vinyl Chloride	1.85	62	863748	26.45	ug/l	98
5) Bromomethane	2.16	94	723913	24.69	ug/l	92
6) Chloroethane	2.26	64	307612	27.64	ug/l	97
7) Trichlorofluoromethane	2.48	101	1754718	25.27	ug/l	99
8) Diethyl ether	2.82	59	582376	27.44	ug/l	94
10) 1,1,2-Trichloro-1,2,2-trif	3.00	101	1737496	26.22	ug/l	98
11) Acetone	3.12	58	146288	124.24	ug/l	91
12) Iodomethane	3.16	142	2051182	26.52	ug/l	99
13) Carbon Disulfide	3.20	76	2433497	27.73	ug/l	100
14) 1,1-Dichloroethene	3.00	96	952539	28.20	ug/l	97
15) Allyl Chloride	3.36	41	1462647	25.00	ug/l	99
16) Methyl Acetate	3.43	43	402547	24.68	ug/l	90
17) Methylene Chloride	3.49	84	904523	25.22	ug/l	96
18) Methyl tert-Butyl Ether	3.80	73	1799202	26.13	ug/l	98
19) Acrylonitrile	3.79	53	130754	25.51	ug/l	93
20) trans-1,2-Dichloroethene	3.76	96	1038873	26.53	ug/l	98
21) 1,1-Dichloroethane	4.19	63	1640250	25.73	ug/l	98
22) Vinyl Acetate	4.28	43	3009946	24.99	ug/l	99
24) Di-isopropyl ether	4.30	45	3746397	26.18	ug/l	100
25) Ethyl tertiary-butyl ether	4.68	59	2662956	24.96	ug/l	99
26) 2-Butanone	4.89	72	201212	130.71	ug/l	98
27) cis-1,2 Dichloroethene	4.82	96	1034777	27.60	ug/l	97
28) 2,2-Dichloropropane	4.81	77	1320027	23.34	ug/l	98
29) Methyl Acrylate	4.97	55	481258	25.10	ug/l	100
30) Bromochloromethane	5.08	128	596515	26.74	ug/l	96
31) Methacrylonitrile	5.11	41	292459	24.25	ug/l	96
32) Tetrahydrofuran	5.16	42	127174	26.26	ug/l	91
33) Chloroform	5.17	83	1621293	26.94	ug/l	99
35) 1,1,1-Trichloroethane	5.35	97	1647833	26.53	ug/l	98
36) Cyclohexane	5.40	56	1054525	25.55	ug/l	99
37) 1-Chlorobutane	5.48	56	2009992	25.78	ug/l	99

Quantitation Report

Data File : Q:\VOA\MS1\_MA\MA0506\MA053106\M1040623.D Vial: 9  
 Acq On : 31 May 106 10:14 am Operator: RES  
 Sample : BPE0238-SCV1 Inst : VOA MASS  
 Misc : 100 Multiplr: 1.00  
 Quant Time: Jun 1 9:50 19106

Method : C:\HPCHEM\1\METHODS\HI053106.M  
 Title : Element ID: 0605009  
 Last Update : Wed May 31 13:14:46 2006  
 Response via : Multiple Level Calibration

*X/RES 6/1/06*

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
38) 1,1-Dichloropropene	5.54	75	1350223	25.57	ug/l	99
39) Carbon Tetrachloride	5.54	117	1485376	27.28	ug/l	97
40) Benzene	5.79	78	2953808	25.66	ug/l	100
42) 1,2-Dichloroethane	5.83	62	899070	25.17	ug/l	100
43) Tertiary-amyl methyl ether	5.94	73	2477493	25.93	ug/l	98
44) Trichloroethene	6.56	95	1224083	25.46	ug/l	98
45) Methyl Cyclohexane	6.77	83	1160897	27.43	ug/l	95
46) 1,2-Dichloropropane	6.84	63	1073138	25.60	ug/l	99
47) Dibromomethane	6.99	93	773069	26.90	ug/l	97
48) Methyl Methacrylate	7.01	41	673505	26.33	ug/l	96
49) 1,4-Dioxane	7.07	88	76837	362.85	ug/l	98
50) Bromodichloromethane	7.20	83	1791289	27.71	ug/l	97
51) 2-Nitropropane	7.52	43	113611	23.29	ug/l	# 40
52) 2-Chloroethyl vinyl ether	7.60	63	400626	25.62	ug/l	95
53) 4-Methyl-2-Pentanone	8.02	58	1293277	133.23	ug/l	90
54) cis-1,3-Dichloropropene	7.78	75	1505104	25.42	ug/l	99
55) Toluene	8.22	92	2127852	26.31	ug/l	99
56) trans-1,3-Dichloropropene	8.54	75	1074362	23.80	ug/l	96
57) 1,1,2-Trichloroethane	8.80	83	671305	25.76	ug/l	97
60) 2-Hexanone	9.18	43	2062192	130.95	ug/l	99
61) Ethyl Methacrylate	8.69	69	1119918	26.82	ug/l	96
62) 1,3-Dichloropropane	9.03	76	1311374	26.18	ug/l	100
63) Tetrachloroethene	8.97	164	1036759	26.52	ug/l	99
64) Dibromochloromethane	9.35	129	1371949	24.65	ug/l	98
65) 1,2-Dibromoethane	9.51	107	1138973	26.16	ug/l	95
66) 1-Chlorohexane	10.21	91	1263157	25.28	ug/l	96
67) Chlorobenzene	10.22	112	2510599	25.11	ug/l	97
68) 1,1,1,2-Tetrachloroethane	10.36	131	1163111	26.21	ug/l	99
69) Ethylbenzene	10.40	91	3834453	26.50	ug/l	100
70) Xylene P,M	10.58	106	3124151	51.79	ug/l	99
71) Xylene O	11.19	106	1512958	26.08	ug/l	98
72) Styrene	11.21	104	2655430	26.63	ug/l	96
73) Bromoform	11.49	173	798893	24.40	ug/l	98
77) Isopropylbenzene	11.77	105	3593301	23.99	ug/l	99
78) Trans-1,4-Dichloro-2-Buten	12.37	53	200939	24.00	ug/l	# 85
79) 1,2,3-Trichloropropane	12.34	75	884462	25.55	ug/l	98
80) Bromobenzene	12.23	156	1140508	26.91	ug/l	100
81) 1,1,2,2-Tetrachloroethane	12.26	83	975375	24.98	ug/l	98
82) n-Propylbenzene	12.43	91	4161780	26.18	ug/l	99
83) 2-Chlorotoluene	12.55	91	2887780	25.27	ug/l	m 66x 99
84) 4-Chlorotoluene	12.73	91	3132503	24.75	ug/l	97
85) 1,3,5-Trimethylbenzene	12.72	105	2966766	25.72	ug/l	100
86) tert-Butylbenzene	13.24	119	3690152	25.76	ug/l	98
87) Pentachloroethane	13.24	119	3690152	25.76	ug/l	96

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

Quantitation Report

Data File : Q:\VOA\MS1\_MA\MA0506\MA053106\M1040623.D Vial: 9  
 Acq On : 31 May 106 10:14 am Operator: RES  
 Sample : BPE0238-SCV1 Inst : VOA MASS  
 Misc : 100 Multiplr: 1.00  
 Quant Time: Jun 1 9:50 19106

Method : C:\HPCHEM\1\METHODS\HI053106.M  
 Title : Element ID: 0605009  
 Last Update : Wed May 31 13:14:46 2006  
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
88) 1,2,4-Trimethylbenzene	13.33	105	3041024	26.20	ug/l	100
89) sec-Butylbenzene	13.60	105	3652120	25.73	ug/l	99
90) 1,3 Dichlorobenzene	13.77	146	1772953	24.56	ug/l	98
91) 4-Isopropyltoluene	13.86	119	2868779	25.34	ug/l	98
92) 1,4 Dichlorobenzene	13.92	146	1916346	24.64	ug/l	99
93) n-Butylbenzene	14.50	91	2356494	26.16	ug/l	98
94) 1,2 Dichlorobenzene	14.49	146	1594320	25.65	ug/l	98
95) Hexachloroethane	14.82	117	802295	25.70	ug/l	99
96) 1,2-Dibromo-3-Chloropropan	15.48	75	127017	25.26	ug/l	96
97) 1,2,4-Trichlorobenzene	16.31	180	769553	24.95	ug/l	100
98) Hexachlorobutadiene	16.48	225	402747	26.70	ug/l	95
99) Naphthalene	16.56	128	977974	26.62	ug/l	100
100) 1,2,3-Trichlorobenzene	16.80	180	543951	25.63	ug/l	99

# VOA Working Standard Logbook

Date Prepared	STANDARD LAB ID	STANDARD Description	Prepared From (List IDs)	Solvent	Solvent Lot#	Exp. Date	INIT.
5/31/06	6E31067	8260 PFB Tunc <sup>High</sup> solid	6D21045	H <sub>2</sub> O	-	6/1/06	PS
	68	CA11	6E30050		-		
	69	CA12			-		
	70	CA13			-		
	71	CA14			-		
	72	CA15			-		
	73	CA16			-		
5/31/06	6E31074	8260 <sup>High</sup> <del>CA16</del> <sup>CA16</sup> <del>response</del> <sup>solid</sup>	6E30050	H <sub>2</sub> O	-	6/1/06	PS
	6E31078	DEPTunc	6D21045		-		
	6E31089	CCAL	6E30050		-		
5/31/06	6E31090	LC5/ <sup>High</sup> <del>CA16</del> <sup>CA16</sup> <del>response</del> <sup>solid</sup>	6E30050	H <sub>2</sub> O	-	6/1/06	PS
	6E31091	VPH-CA11-GL-2	6E30072		-		
5/31/06	6E31092	VPH-CA12-GL-2	6E30072	H <sub>2</sub> O	-	6/1/06	M

1.) All containers must be labeled with ELEMENT Std ID, Expiration Date, and Initials.

Reviewed by \_\_\_\_\_ CONTROL # 20.0011-0601A

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
5/3/06	1	M1 040615	BBE0238 - Jun 1	HFO50406	GE31067	
	2	M1 16	-CAL1		GE31068	
	3	M1 17	-CAL2		GE31067	
	4	M1 18	-CAL3		GE31070	
	5	M1 19	-CAL4		GE31071	
	6	M1 20	-CAL5		GE31072	
	7	M1 21	BBE0238 - CALC		GE31073	
297	8	M1 22	TB	HFO50406		
	9	M1 23	BBE0238 - Scr1	HFO53106	GE31074	
	10	M1 24	0605441-01	HFO50406	Confirmation Run	
5/31/06	11	M1 25	0605385-01	HFO50406	Confirmation Run	
	1	M1 26	BBE0238 - Jun 1	HFO53106	GE31088	
	2	M1 27	BBE0238 - Scr1		GE31089	
5/31/06	3	M1 28	BBE0238 - Scr1	HFO53106	GE31090 100X	

Run Sequence Confirmation

Surrogate: 6P17066

On-column IS: 6E30041

XPS 5/31/06

## ANALYSIS SEQUENCE

BPF0208

Instrument: VMS1

Calibration ID: 0606024

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0208-TUN1	QC		1		6F26053		
BPF0208-CCV1	QC		2		6F26054	6F22057	
BF62611-BLK1	QC		3			6F22057	
BF62611-BS1	QC		4			6F22057	
BF62611-BSD1	QC		5			6F22057	
0606324-02RE1	VOC: x8260 ppb VOA	I	6			6F22057	Blackstone Consulting
0606324-12RE1	VOC: x8260 ppb VOA	H	7			6F22057	Blackstone Consulting
0606372-01	VOC: x8260 ppb VOA	G	8			6F22057	MACTEC Engineering & Consulting, Inc
0606372-02	VOC: x8260 ppb VOA	G	9			6F22057	MACTEC Engineering & Consulting, Inc
0606372-03	VOC: x8260 ppb VOA	G	10			6F22057	MACTEC Engineering & Consulting, Inc
0606349-06	VOC: x8260 ppb VOA	L	11			6F22057	Blackstone Consulting
0606349-02	VOC: x8260 ppb VOA	H	12			6F22057	Blackstone Consulting
BF62611-MS1	QC		13			6F22057	
BF62611-MSD1	QC		14			6F22057	
0606369-03	TB: 8260 ppb VOA	A	15			6F22057	Sapphire Engineering

Samples Loaded By

Date

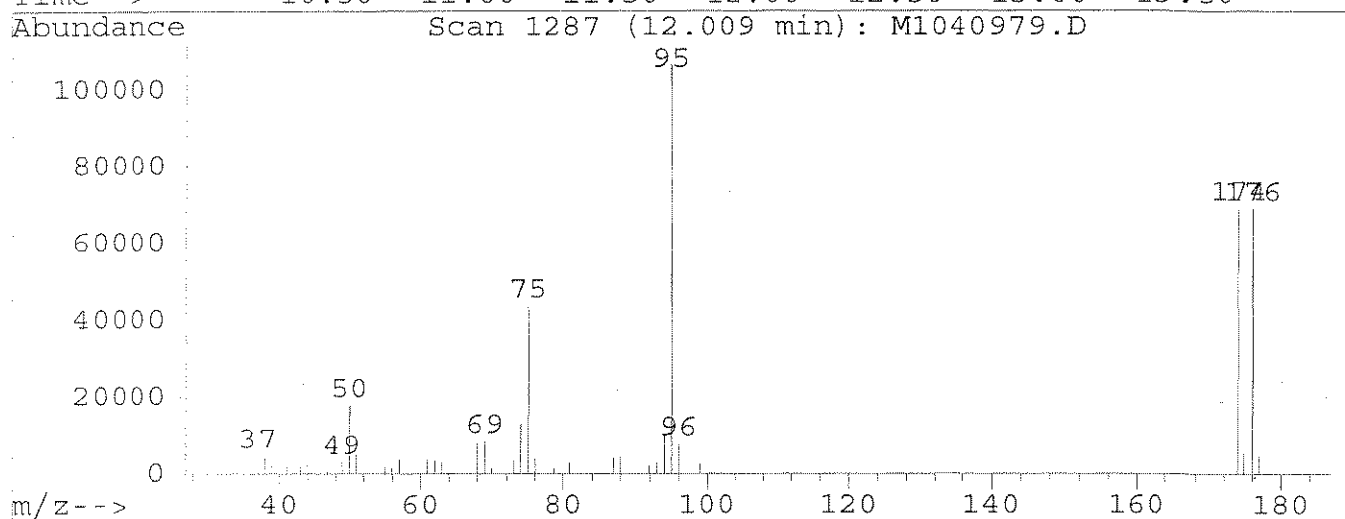
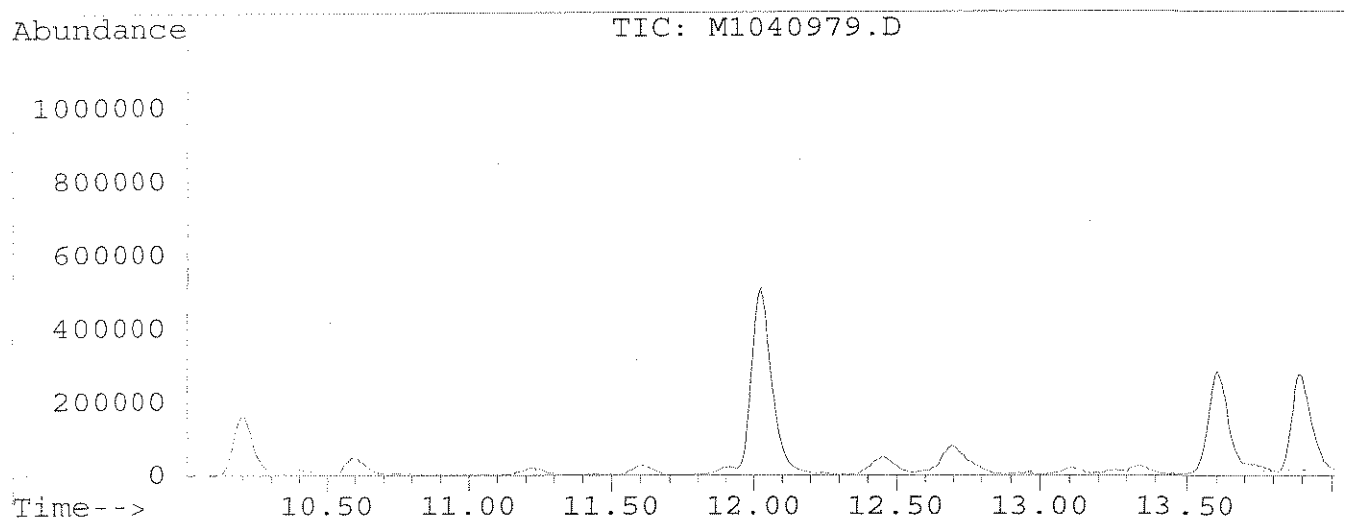
Data Printed By

Date



Data File : Q:\VOA\MS1\_MA\MA0606\MA062606\M1040979.D Vial: 1  
 Acq On : 26 Jun 106 7:55 am Operator: RES  
 Sample : BPF0208-TUN1 Inst : VOA MA  
 Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\AQ061606.M  
 Title : Element ID: 0604022

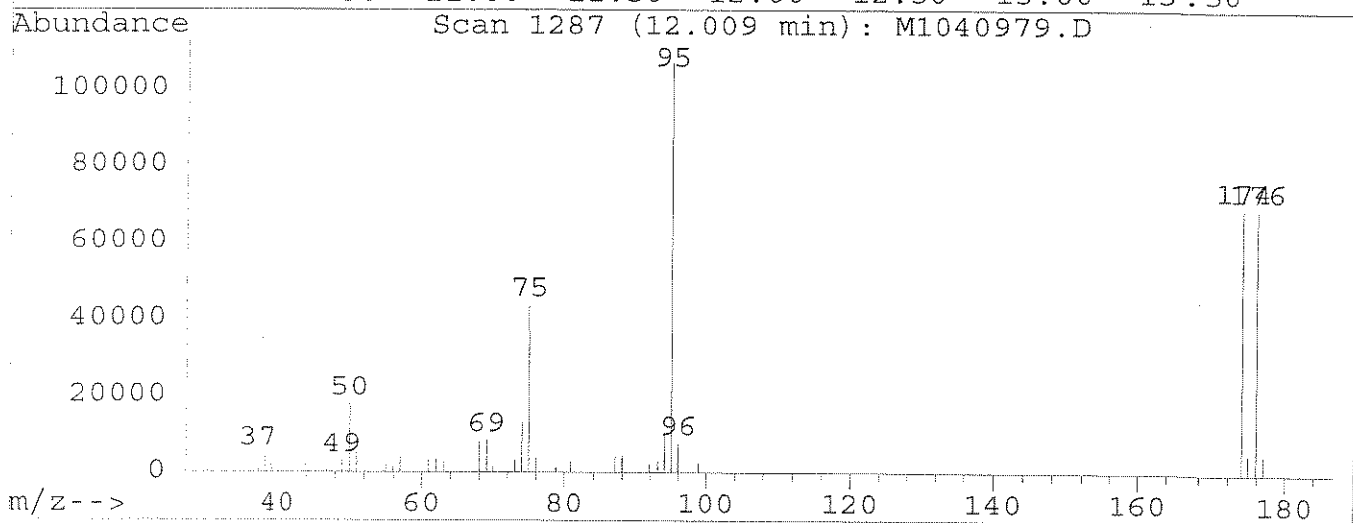
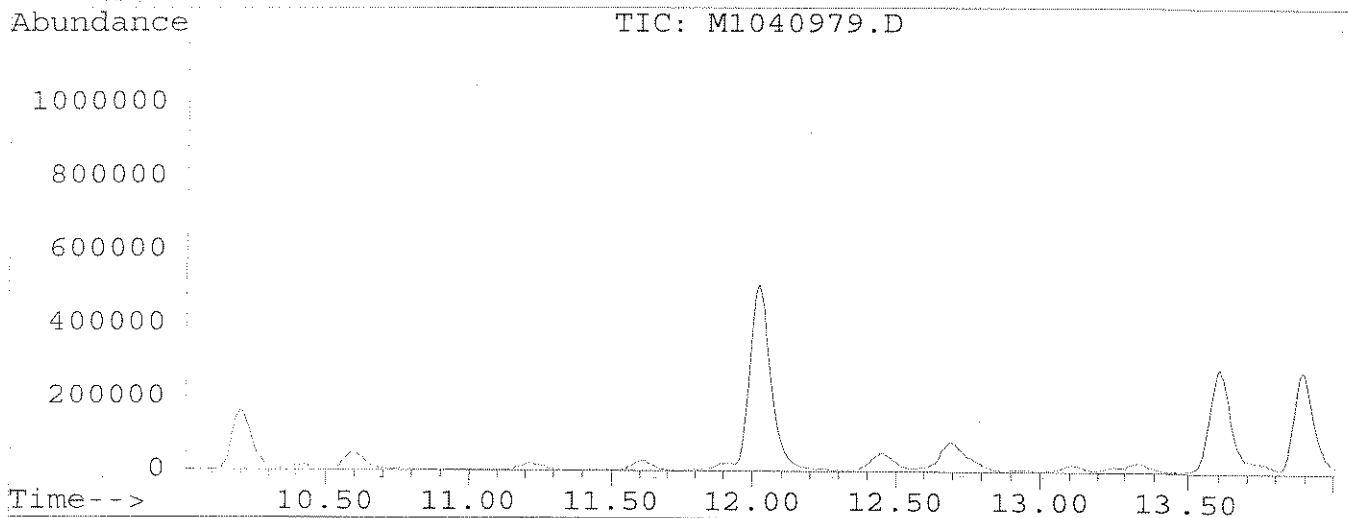


Peak Apex is scan: 1287

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	17728	PASS
75	95	30	60	40.8	43536	PASS
95	95	100	100	100.0	106712	PASS
96	95	5	9	7.1	7620	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	64.8	69112	PASS
175	174	5	9	7.6	5264	PASS
176	174	95	101	99.7	68928	PASS
177	176	5	9	7.1	4919	PASS

Data File : Q:\VOA\MS1\_MA\MA0606\MA062606\M1040979.D Vial: 1  
 Acq On : 26 Jun 106 7:55 am Operator: RES  
 Sample : BPF0208-TUN1 Inst : VOA MASS  
 Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\AQ061606.M  
 Title : Element ID: 0604022



Peak Apex is scan: 1287

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	17728	PASS
75	95	30	60	40.8	43536	PASS
95	95	100	100	100.0	106712	PASS
96	95	5	9	7.1	7620	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	64.8	69112	PASS
175	174	5	9	7.6	5264	PASS
176	174	95	101	99.7	68928	PASS
177	176	5	9	7.1	4919	PASS

Instrument Name VOA MASS  
 Tuning Std BFB  
 Initial Cal ID: AQ061606

Date Acquired 06/26/10 -1::2  
 Data File Name BPF0208-CCV1  
 Data File Name M1040980.D

<u>COMPOUND</u>	<u>RRF 20%</u> <u>%</u> <u>DEVIATION</u>
Vinyl Chloride	6.1%
1,1-Dichloroethene	1.3%
Chloroform	1.3%
1,2-Dichloropropane	4.7%
Toluene	0.3%
Ethylbenzene	2.9%

	<u>SPCC</u> <u>CCRRF</u>	<u>MIN</u> <u>RRF</u>
Chloromethane	0.192	0.1
1,1-Dichloroethane	0.421	0.1
Chlorobenzene	0.900	0.3
Bromoform	0.280	0.1
1,1,2,2-Tetrachloroethane	0.809	0.3

Analytical non-conformance report:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Analyst: *msb/erla*

Reviewed by: \_\_\_\_\_

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1\_MA\MA0606\MA062606\M1040980.D Vial : 2  
 Acq On : 26 Jun 106 8:22 am Operator : RES  
 Sample : BPF0208-CCV1 Inst : VOA MASS  
 Misc : Multiplr : 1.00

Method : C:\HPCHEM\1\METHODS\AQ061606.M  
 Title : Element ID: 0604022  
 Last Update : Mon Jun 19 09:45:25 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	93	0.00
2	Dichlorodifluoromethane	0.303	0.283	6.6	82	0.00
3	Chloromethane	0.219	0.192	12.1	82	0.00
4	Vinyl Chloride	0.216	0.202	6.1	84	0.00
5	Bromomethane	0.182	0.171	5.9	86	0.00
6	Chloroethane	0.129	0.127	1.8	83	0.00
7	Trichlorofluoromethane	0.504	0.517	-2.5	91	0.00
8	Diethyl ether	0.152	0.144	5.2	84	0.00
9	Acrolein	0.014	0.004	70.9#	27#	0.00
10	1,1,2-Trichloro-1,2,2-trifl	0.477	0.482	-0.9	90	0.00
11	Acetone	0.007	0.007	-5.3	89	0.00
12	Iodomethane	0.513	0.475	7.4	84	0.00
13	Carbon Disulfide	0.624	0.607	2.7	88	0.00
14 M	1,1-Dichloroethene	0.237	0.234	1.3	88	0.00
15	Allyl Chloride	0.402	0.382	4.8	84	0.00
16	Methyl Acetate	0.114	0.099	13.3	84	0.00
17	Methylene Chloride	0.239	0.227	5.2	87	0.00
18	Methyl tert-Butyl Ether	0.480	0.457	4.9	86	0.00
19	Acrylonitrile	0.034	0.033	4.0	86	0.00
20	trans-1,2-Dichloroethene	0.270	0.271	-0.3	90	0.00
21	1,1-Dichloroethane	0.443	0.421	5.0	86	0.00
22	Vinyl Acetate	0.817	0.755	7.6	84	0.00
23	Chloroprene	0.300	0.297	1.1	88	0.00
24	Di-isopropyl ether	0.990	0.905	8.6	83	0.00
25	Ethyl tertiary-butyl ether	0.736	0.701	4.7	86	0.00
26	2-Butanone	0.010	0.010	-7.3	93	0.00
27	cis-1,2 Dichloroethene	0.261	0.253	3.0	89	0.00
28	2,2-Dichloropropane	0.364	0.368	-1.1	90	0.00
29	Methyl Acrylate	0.128	0.119	6.9	84	0.00
30	Bromochloromethane	0.153	0.161	-5.6	96	0.00
31	Methacrylonitrile	0.082	0.072	12.4	87	0.00
32	Tetrahydrofuran	0.030	0.031	-3.7	93	0.00
33	Chloroform	0.393	0.388	1.3	96	0.00
34 S	Dibromofluoromethane(SURR)	0.462	0.466	-1.0	91	0.00
35	1,1,1-Trichloroethane	0.442	0.449	-1.7	91	0.00
36	Cyclohexane	0.265	0.241	9.2	76	-0.02
37	1-Chlorobutane	0.577	0.496	14.0	80	0.00
38	1,1-Dichloropropene	0.368	0.360	2.3	87	0.00
39	Carbon Tetrachloride	0.385	0.401	-4.1	93	0.00
40 M	Benzene	0.795	0.761	4.3	89	0.00
41 S	1,2-Dichloroethane-d4(SURR)	0.225	0.222	1.2	89	0.00
42	1,2-Dichloroethane	0.246	0.242	1.6	88	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1\_MA\MA0606\MA062606\M1040980.D Vial : 2  
 Acq On : 26 Jun 106 8:22 am Operator: RES  
 Sample : BPF0208-CCV1 Inst : VOA MASS  
 Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\AQ061606.M  
 Title : Element ID: 0604022  
 Last Update : Mon Jun 19 09:45:25 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
43	Tertiary-amyl methyl ether	0.660	0.602	8.7	86	0.00
44 M	Trichloroethene	0.331	0.327	1.1	90	0.00
45	Methyl Cyclohexane	0.294	0.294	0.1	90	0.00
46	1,2-Dichloropropane	0.293	0.279	4.7	85	0.00
47	Dibromomethane	0.199	0.202	-1.3	90	0.00
48	Methyl Methacrylate	0.180	0.164	8.9	84	0.00
49	1,4-Dioxane	0.002	0.001	41.8#	201#	0.00
50	Bromodichloromethane	0.446	0.457	-2.4	91	0.00
51	2-Nitropropane	0.028	0.030	-6.6	97	0.00
52	2-Chloroethyl vinyl ether	0.088	0.087	0.8	87	0.00
53	4-Methyl-2-Pentanone	0.067	0.065	3.6	84	0.00
54	cis-1,3-Dichloropropene	0.379	0.399	-5.3	87	0.00
55	Toluene	0.552	0.551	0.3	90	0.00
56	trans-1,3-Dichloropropene	0.280	0.303	-8.1	88	0.00
57	1,1,2-Trichloroethane	0.182	0.177	2.9	88	0.00
58 I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
59 S	Toluene-d8 (SURR)	1.171	1.145	2.2	92	0.00
60	2-Hexanone	0.143	0.134	5.9	86	0.00
61	Ethyl Methacrylate	0.390	0.370	5.1	85	0.00
62	1,3-Dichloropropane	0.465	0.445	4.3	88	0.00
63	Tetrachloroethene	0.356	0.359	-0.8	93	0.00
64	Dibromochloromethane	0.462	0.482	-4.3	93	0.00
65	1,2-Dibromoethane	0.401	0.401	-0.1	91	0.00
66	1-Chlorohexane	0.447	0.434	3.0	92	0.00
67 M	Chlorobenzene	0.905	0.900	0.6	93	0.00
68	1,1,1,2-Tetrachloroethane	0.406	0.416	-2.4	94	0.00
69	Ethylbenzene	1.312	1.275	2.9	91	0.00
70	Xylene P,M	0.548	0.546	0.3	94	0.00
71	Xylene O	0.529	0.525	0.6	92	0.00
72	Styrene	0.909	0.916	-0.7	93	0.00
73	Bromoform	0.263	0.280	-6.4	91	0.00
74	cis1,4-Dichloro-2-butene	0.055	0.049	10.7	78	0.00
75 S	Bromofluorobenzene (SURR)	0.627	0.624	0.6	94	0.00
76 I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	98	0.00
77	Isopropylbenzene	3.219	3.138	2.5	94	0.00
78	Trans-1,4-Dichloro-2-Butene	0.158	0.148	6.6	86	0.00
79	1,2,3-Trichloropropane	0.737	0.661	10.3	86	0.00
80	Bromobenzene	0.921	0.891	3.2	93	0.00
81	1,1,2,2-Tetrachloroethane	0.828	0.809	2.3	89	0.00
82	n-Propylbenzene	3.420	3.297	3.6	94	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1\_MA\MA0606\MA062606\M1040980.D Vial : 2  
 Acq On : 26 Jun 106 8:22 am Operator : RES  
 Sample : BPF0208-CCV1 Inst : VOA MASS  
 Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\AQ061606.M  
 Title : Element ID: 0604022  
 Last Update : Mon Jun 19 09:45:25 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	2-Chlorotoluene	2.426	2.263	6.7	93	0.00
84	4-Chlorotoluene	2.630	2.519	4.3	93	0.00
85	1,3,5-Trimethylbenzene	2.472	2.390	3.3	95	0.00
86	tert-Butylbenzene	3.050	2.991	2.0	95	0.00
87	Pentachloroethane	3.050	2.991	2.0	95	0.00
88	1,2,4-Trimethylbenzene	2.484	2.397	3.5	94	0.00
89	sec-Butylbenzene	2.989	2.920	2.3	95	0.00
90	1,3 Dichlorobenzene	1.508	1.478	2.0	95	0.00
91	4-Isopropyltoluene	2.380	2.359	0.9	98	0.00
92	1,4 Dichlorobenzene	1.644	1.592	3.2	93	0.00
93	n-Butylbenzene	1.878	1.836	2.2	97	0.00
94	1,2 Dichlorobenzene	1.342	1.319	1.7	97	0.00
95	Hexachloroethane	0.618	0.649	-5.0	101	0.00
96	1,2-Dibromo-3-Chloropropane	0.100	0.107	-6.8	103	0.00
97	1,2,4-Trichlorobenzene	0.626	0.595	5.0	104	0.00
98	Hexachlorobutadiene	0.341	0.295	13.6	103	0.00
99	Naphthalene	0.774	0.730	5.7	104	0.00
100	1,2,3-Trichlorobenzene	0.474	0.424	10.5	114	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

M1040980.D AQ061606.M

Tue Jun 27 15:33:17 2006

Quantitation Report

Data File : Q:\VOA\MS1\_MA\MA0606\MA062606\M1040980.D Vial: 2  
 Acq On : 26 Jun 106 8:22 am Operator: RES  
 Sample : BPF0208-CCV1 Inst : VOA MASS  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 27 15:32 19106

Method : C:\HPCHEM\1\METHODS\AQ061606.M  
 Title : Element ID: 0604022  
 Last Update : Mon Jun 19 09:45:25 2006  
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.13	96	3460560	25.00	ug/l	0.00
58) Chlorobenzene-d5	10.20	117	2659780	25.00	ug/l	0.00
76) 1,4 Dichlorobenzene-D4	13.89	152	1144605	25.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
34) Dibromofluoromethane (SURR)	5.37	111	1613815	25.26	ug/l	101.04%
41) 1,2-Dichloroethane-d4 (SURR)	5.75	65	769797	24.70	ug/l	98.82%
59) Toluene-d8 (SURR)	8.14	98	3044411	24.45	ug/l	97.78%
75) Bromofluorobenzene (SURR)	12.02	95	1659676	24.86	ug/l	99.44%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	980332	23.35	ug/l	97
3) Chloromethane	1.75	50	664738	21.96	ug/l	98
4) Vinyl Chloride	1.86	62	700372	23.47	ug/l	97
5) Bromomethane	2.17	94	591188	23.53	ug/l	95
6) Chloroethane	2.27	64	439693	24.56	ug/l	98
7) Trichlorofluoromethane	2.51	101	1789062	25.62	ug/l	96
8) Diethyl ether	2.81	59	499566	23.69	ug/l	98
9) Acrolein	2.94	56	14319	7.28	ug/l	96
10) 1,1,2-Trichloro-1,2,2-trif	3.03	101	1666556	25.24	ug/l	99
11) Acetone	3.10	58	127126	131.67	ug/l	97
12) Iodomethane	3.17	142	1642893	23.14	ug/l	99
13) Carbon Disulfide	3.22	76	2099461	24.32	ug/l	100
14) 1,1-Dichloroethene	3.02	96	809774	24.69	ug/l	98
15) Allyl Chloride	3.38	41	1323612	23.79	ug/l	98
16) Methyl Acetate	3.42	43	342239	21.68	ug/l	98
17) Methylene Chloride	3.51	84	784002	23.69	ug/l	97
18) Methyl tert-Butyl Ether	3.79	73	1581929	23.79	ug/l	97
19) Acrylonitrile	3.78	53	113477	24.01	ug/l	94
20) trans-1,2-Dichloroethene	3.77	96	937622	25.07	ug/l	94
21) 1,1-Dichloroethane	4.20	63	1456246	23.74	ug/l	98
22) Vinyl Acetate	4.29	43	2612087	23.11	ug/l	100
23) Chloroprene	4.30	53	1026885	24.73	ug/l	100
24) Di-isopropyl ether	4.30	45	3133118	22.86	ug/l	96
25) Ethyl tertiary-butyl ether	4.68	59	2426883	23.83	ug/l	98
26) 2-Butanone	4.88	72	180628	134.07	ug/l	89
27) cis-1,2 Dichloroethene	4.82	96	875387	24.26	ug/l	98
28) 2,2-Dichloropropane	4.82	77	1273593	25.28	ug/l	98
29) Methyl Acrylate	4.98	55	411247	23.28	ug/l	99
30) Bromochloromethane	5.09	128	558848	26.40	ug/l	96
31) Methacrylonitrile	5.12	41	247770	21.89	ug/l	96
32) Tetrahydrofuran	5.16	42	106868	25.93	ug/l	95
33) Chloroform	5.17	83	1341182	24.66	ug/l	100
35) 1,1,1-Trichloroethane	5.37	97	1555373	25.42	ug/l	99

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

Quantitation Report

Data File : Q:\VOA\MS1\_MA\MA0606\MA062606\M1040980.D  
 Acq On : 26 Jun 106 8:22 am  
 Sample : BPF0208-CCV1  
 Misc :  
 Quant Time: Jun 27 15:32 19106

Vial: 2  
 Operator: RES  
 Inst : VOA MASS  
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\AQ061606.M  
 Title : Element ID: 0604022  
 Last Update : Mon Jun 19 09:45:25 2006  
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Cyclohexane	5.42	56	832957	22.71	ug/l	m 6/14 97
37) 1-Chlorobutane	5.48	56	1718052	21.51	ug/l	m 97
38) 1,1-Dichloropropene	5.56	75	1245513	24.42	ug/l	m 99
39) Carbon Tetrachloride	5.55	117	1387219	26.04	ug/l	m 99
40) Benzene	5.80	78	2633185	23.93	ug/l	100
42) 1,2-Dichloroethane	5.83	62	838389	24.60	ug/l	94
43) Tertiary-amyl methyl ether	5.95	73	2084641	22.83	ug/l	98
44) Trichloroethene	6.56	95	1132521	24.73	ug/l	98
45) Methyl Cyclohexane	6.78	83	1016888	24.97	ug/l	97
46) 1,2-Dichloropropane	6.86	63	966774	23.83	ug/l	98
47) Dibromomethane	7.01	93	697704	25.32	ug/l	96
48) Methyl Methacrylate	7.02	41	567835	22.78	ug/l	100
49) 1,4-Dioxane	7.07	88	72760	818.03	ug/l	m 92
50) Bromodichloromethane	7.21	83	1581612	25.60	ug/l	m 99
51) 2-Nitropropane	7.55	43	104705	26.66	ug/l	m 31
52) 2-Chloroethyl vinyl ether	7.61	63	1508875	124.04	ug/l	96
53) 4-Methyl-2-Pentanone	8.03	58	1125274	120.50	ug/l	99
54) cis-1,3-Dichloropropene	7.79	75	1381914	24.06	ug/l	98
55) Toluene	8.23	92	1906834	24.93	ug/l	98
56) trans-1,3-Dichloropropene	8.56	75	1049419	23.94	ug/l	99
57) 1,1,2-Trichloroethane	8.81	83	611471	24.28	ug/l	95
60) 2-Hexanone	9.19	43	1787424	117.65	ug/l	99
61) Ethyl Methacrylate	8.71	69	983164	23.71	ug/l	97
62) 1,3-Dichloropropane	9.04	76	1183093	23.93	ug/l	98
63) Tetrachloroethene	8.98	164	955097	25.21	ug/l	99
64) Dibromochloromethane	9.36	129	1280699	26.08	ug/l	98
65) 1,2-Dibromoethane	9.52	107	1066395	25.01	ug/l	98
66) 1-Chlorohexane	10.22	91	1153996	24.26	ug/l	97
67) Chlorobenzene	10.24	112	2393484	24.86	ug/l	100
68) 1,1,1,2-Tetrachloroethane	10.37	131	1106382	25.61	ug/l	99
69) Ethylbenzene	10.41	91	3389929	24.29	ug/l	96
70) Xylene P,M	10.60	106	2906519	49.87	ug/l	99
71) Xylene O	11.20	106	1397059	24.84	ug/l	95
72) Styrene	11.23	104	2435205	25.18	ug/l	99
73) Bromoform	11.52	173	743787	24.21	ug/l	95
74) cis1,4-Dichloro-2-butene	11.91	75	129888	22.34	ug/l	97
77) Isopropylbenzene	11.79	105	3592298	24.38	ug/l	99
78) Trans-1,4-Dichloro-2-Buten	12.38	53	169156	23.36	ug/l	# 86
79) 1,2,3-Trichloropropane	12.35	75	756865	22.43	ug/l	95
80) Bromobenzene	12.25	156	1020157	24.19	ug/l	98
81) 1,1,2,2-Tetrachloroethane	12.29	83	926342	24.43	ug/l	m 96
82) n-Propylbenzene	12.45	91	3774172	24.10	ug/l	m 98
83) 2-Chlorotoluene	12.56	91	2590184	23.32	ug/l	m 100
84) 4-Chlorotoluene	12.74	91	2882762	23.94	ug/l	99

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



Quantitation Report

Data File : Q:\VOA\MS1\_MA\MA0606\MA062606\M1040980.D Vial: 2  
 Acq On : 26 Jun 106 8:22 am Operator: RES  
 Sample : BPF0208-CCV1 Inst : VOA MASS  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 27 15:32 19106

Method : C:\HPCHEM\1\METHODS\AQ061606.M  
 Title : Element ID: 0604022  
 Last Update : Mon Jun 19 09:45:25 2006  
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
85) 1,3,5-Trimethylbenzene	12.74	105	2735885	24.18	ug/l	100
86) tert-Butylbenzene	13.26	119	3423002	24.51	ug/l	99
87) Pentachloroethane	13.26	119	3423002	24.51	ug/l	99
88) 1,2,4-Trimethylbenzene	13.34	105	2743957	24.13	ug/l	99
89) sec-Butylbenzene	13.62	105	3341706	24.42	ug/l	98
90) 1,3 Dichlorobenzene	13.77	146	1692205	24.50	ug/l	98
91) 4-Isopropyltoluene	13.86	119	2700186	24.78	ug/l	99
92) 1,4 Dichlorobenzene	13.93	146	1822645	24.21	ug/l	100
93) n-Butylbenzene	14.51	91	2101046	24.44	ug/l	98
94) 1,2 Dichlorobenzene	14.50	146	1509726	24.58	ug/l	99
95) Hexachloroethane	14.83	117	742669	26.25	ug/l	98
96) 1,2-Dibromo-3-Chloropropan	15.49	75	122785	26.71	ug/l	99
97) 1,2,4-Trichlorobenzene	16.32	180	681210	25.94	ug/l	97
98) Hexachlorobutadiene	16.49	225	337331	25.55	ug/l	95
99) Naphthalene	16.56	128	835401	28.51	ug/l	100
100) 1,2,3-Trichlorobenzene	16.81	180	485311	27.58	ug/l	97

# ESS LABORATORY MS-1 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/26/06	1	M1 040779	BF0208 - Inal	Alphabot	6F26053	Key
	2	M1 80	BF0208 - con		6F26054	
	3	M1 81	BF62611 - 051		6F12081 20µl/sam	
	4	M1 82	BF62611 - 050		6F12081 20µl/sam	
	5	M1 83	TB			
	6	M1 84	BF62611 - 01K			
	7	M1 85	0606349-02		100x PH22	
	8	M1 86	TB			
	9	M1 87	0606369-03		PH22	
	10	M1 88	0606347-02			
	11	M1 87	<del>0406324-02</del> <del>0606349-02</del>		1000x 50µl/sam	
	12	M1 90	<del>0606345-02</del> <del>0606344-02</del>		↓ ↓	
	13	M1 91	0606324-12		1000x 50µl/sam	
6/26/06	14	M1 92	0606372- <sup>01</sup> <del>02</del>	PH06/006	PH22	Key

Run Sequence Confirmation

Surrogate: 6F22055  
 On-column IS: 6F22057

\* Key 6/26/06

# ESS LABORATORY MS-1 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/26/06	15	M1 040113	0606272-02	AA06/606		PHZ PJ
	16	M1 94	0606372-63			PHZ
	17	M1 95	0606269-01		form over PHZ	
	18	M1 76	TB		Form over	
	19	M1 77	0606349-06		100X	
	20	M1 78	0606349-08		100X	
	21	M1 99	TB 10			
	22	M1 049000	TB 11			
	23	M1 01	TB 12			
	24	M1 02	0606349			
	25	M1 03	0606349-14		100X	
	26	M1 64	0606269		100X / 100ml 6F1208	
	27	M1 05	0606269		100X / 100ml 6F1208	
6/26/06	28	M1 06	0606349-04 TB	AA06/606	4PX 624X	PJ

Run Sequence Confirmation

Surrogate: 6F22055

On-column IS: 6F22057

X 6/26/06

# Semi-Volatile Organics Data Package

# Semi-Volatile Organics Sample Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
 Client Project ID: Providence Gorham Site  
 Client Sample ID: SW25  
 Date Sampled: 06/22/06 12:20  
 Percent Solids: N/A  
 Initial Volume: 1000  
 Final Volume: 1  
 Extraction Method: 3510C

ESS Laboratory Work Order: 0606372  
 ESS Laboratory Sample ID: 0606372-01  
 Sample Matrix: Surface Water  
 Analyst: VSC  
 Prepared: 06/23/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
2-Methylnaphthalene	ND	ug/L	0.20	1	06/29/06
Acenaphthene	ND	ug/L	0.20	1	06/29/06
Acenaphthylene	ND	ug/L	0.20	1	06/29/06
Anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)pyrene	ND	ug/L	0.20	1	06/29/06
Benzo(b)fluoranthene	ND	ug/L	0.20	1	06/29/06
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	06/29/06
Benzo(k)fluoranthene	ND	ug/L	0.30	1	06/29/06
Chrysene	ND	ug/L	0.20	1	06/29/06
Dibenzo(a,h)Anthracene	ND	ug/L	0.20	1	06/29/06
Fluoranthene	ND	ug/L	0.20	1	06/29/06
Fluorene	ND	ug/L	0.20	1	06/29/06
Indeno(1,2,3-cd)Pyrene	ND	ug/L	0.30	1	06/29/06
<b>Naphthalene</b>	<b>0.24</b>	ug/L	0.20	1	06/29/06
Phenanthrene	ND	ug/L	0.20	1	06/29/06
Pyrene	ND	ug/L	0.20	1	06/29/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	86 %		30-130
Surrogate: 2-Fluorobiphenyl	102 %		30-130
Surrogate: Nitrobenzene-d5	88 %		30-130
Surrogate: p-Terphenyl-d14	208 %	+	30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW25 D  
Date Sampled: 06/22/06 12:20  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 0606372  
ESS Laboratory Sample ID: 0606372-02  
Sample Matrix: Surface Water  
Analyst: VSC  
Prepared: 06/23/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
2-Methylnaphthalene	ND	ug/L	0.20	1	06/29/06
Acenaphthene	ND	ug/L	0.20	1	06/29/06
Acenaphthylene	ND	ug/L	0.20	1	06/29/06
Anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)pyrene	ND	ug/L	0.20	1	06/29/06
Benzo(b)fluoranthene	ND	ug/L	0.20	1	06/29/06
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	06/29/06
Benzo(k)fluoranthene	ND	ug/L	0.30	1	06/29/06
Chrysene	ND	ug/L	0.20	1	06/29/06
Dibenzo(a,h)Anthracene	ND	ug/L	0.20	1	06/29/06
Fluoranthene	ND	ug/L	0.20	1	06/29/06
Fluorene	ND	ug/L	0.20	1	06/29/06
Indeno(1,2,3-cd)Pyrene	ND	ug/L	0.30	1	06/29/06
<b>Naphthalene</b>	<b>0.25</b>	ug/L	0.20	1	06/29/06
Phenanthrene	ND	ug/L	0.20	1	06/29/06
Pyrene	ND	ug/L	0.20	1	06/29/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	89 %		30-130
Surrogate: 2-Fluorobiphenyl	99 %		30-130
Surrogate: Nitrobenzene-d5	81 %		30-130
Surrogate: p-Terphenyl-d14	148 %	+	30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SW27

Date Sampled: 06/22/06 12:00

Percent Solids: N/A

Initial Volume: 1000

Final Volume: 1

Extraction Method: 3510C

ESS Laboratory Work Order: 0606372

ESS Laboratory Sample ID: 0606372-03

Sample Matrix: Surface Water

Analyst: VSC

Prepared: 06/23/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
2-Methylnaphthalene	ND	ug/L	0.20	1	06/29/06
Acenaphthene	ND	ug/L	0.20	1	06/29/06
Acenaphthylene	ND	ug/L	0.20	1	06/29/06
Anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)anthracene	ND	ug/L	0.20	1	06/29/06
Benzo(a)pyrene	ND	ug/L	0.20	1	06/29/06
Benzo(b)fluoranthene	ND	ug/L	0.20	1	06/29/06
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	06/29/06
Benzo(k)fluoranthene	ND	ug/L	0.30	1	06/29/06
Chrysene	ND	ug/L	0.20	1	06/29/06
Dibenzo(a,h)Anthracene	ND	ug/L	0.20	1	06/29/06
Fluoranthene	ND	ug/L	0.20	1	06/29/06
Fluorene	ND	ug/L	0.20	1	06/29/06
Indeno(1,2,3-cd)Pyrene	ND	ug/L	0.30	1	06/29/06
Naphthalene	ND	ug/L	0.20	1	06/29/06
Phenanthrene	ND	ug/L	0.20	1	06/29/06
Pyrene	ND	ug/L	0.20	1	06/29/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	77 %		30-130
Surrogate: 2-Fluorobiphenyl	88 %		30-130
Surrogate: Nitrobenzene-d5	82 %		30-130
Surrogate: p-Terphenyl-d14	139 %	+	30-130



# Semi-Volatile Organics Quality Control Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606372

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8260B Volatile Organic Compounds

##### Batch BF62611 - 5030B

cis-1,2-Dichloroethene	10.4		ug/L	10.0		104	70-130	0	20	
cis-1,3-Dichloropropene	9.2		ug/L	10.0		92	70-130	2	20	
Dibromochloromethane	10.1		ug/L	10.0		101	70-130	0	20	
Dibromomethane	10.5		ug/L	10.0		105	70-130	1	20	
Dichlorodifluoromethane	9.4		ug/L	10.0		94	70-130	4	20	
Diethyl Ether	9.8		ug/L	10.0		98	70-130	6	20	
Di-isopropyl ether	9.5		ug/L	10.0		95	70-130	3	20	
Ethyl tertiary-butyl ether	9.4		ug/L	10.0		94	70-130	1	20	
Ethylbenzene	9.9		ug/L	10.0		99	70-130	1	20	
Hexachlorobutadiene	10.6		ug/L	10.0		106	70-130	7	20	
Isopropylbenzene	9.0		ug/L	10.0		90	70-130	1	20	
Methyl tert-Butyl Ether	10.0		ug/L	10.0		100	70-130	2	20	
Methylene Chloride	10.2		ug/L	10.0		102	70-130	2	20	
Naphthalene	11.0		ug/L	10.0		110	70-130	9	20	
n-Butylbenzene	9.8		ug/L	10.0		98	70-130	1	20	
n-Propylbenzene	9.6		ug/L	10.0		96	70-130	1	20	
sec-Butylbenzene	9.9		ug/L	10.0		99	70-130	0	20	
Styrene	10.1		ug/L	10.0		101	70-130	1	20	
tert-Butylbenzene	10.0		ug/L	10.0		100	70-130	0	20	
Tertiary-amyl methyl ether	9.7		ug/L	10.0		97	70-130	1	20	
Tetrachloroethene	10.2		ug/L	10.0		102	70-130	1	20	
Tetrahydrofuran	11.2		ug/L	10.0		112	70-130	6	20	
Toluene	10.1		ug/L	10.0		101	70-130	2	20	
trans-1,2-Dichloroethene	10.2		ug/L	10.0		102	70-130	2	20	
trans-1,3-Dichloropropene	8.6		ug/L	10.0		86	70-130	0	20	
Trichloroethene	9.6		ug/L	10.0		96	70-130	1	20	
Trichlorofluoromethane	9.8		ug/L	10.0		98	70-130	3	20	
Vinyl Acetate	9.6		ug/L	10.0		96	70-130	2	20	
Vinyl Chloride	9.3		ug/L	10.0		93	70-130	5	20	
Xylene O	10.1		ug/L	10.0		101	70-130	0	20	
Xylene P,M	20.2		ug/L	20.0		101	70-130	1	20	
Surrogate: 1,2-Dichloroethane-d4	24.1		ug/L	25.0		96	70-130			
Surrogate: 4-Bromofluorobenzene	25.0		ug/L	25.0		100	70-130			
Surrogate: Dibromofluoromethane	25.6		ug/L	25.0		102	70-130			
Surrogate: Toluene-d8	24.8		ug/L	25.0		99	70-130			

#### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

##### Batch BF62310 - 3510C

Analyte	Result	MRL	Units
Methylnaphthalene	ND	0.20	ug/L
Benzenanthrene	ND	0.20	ug/L
Benzenanthylene	ND	0.20	ug/L
Anthracene	ND	0.20	ug/L
benzo(a)anthracene	ND	0.20	ug/L
benzo(a)pyrene	ND	0.20	ug/L
benzo(b)fluoranthene	ND	0.20	ug/L
benzo(g,h,i)perylene	ND	0.20	ug/L

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606372

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>8270C(SIM) Polynuclear Aromatic Hydrocarbons</b>										
<b>Batch BF62310 - 3510C</b>										
Benzo(k)fluoranthene	ND	0.30	ug/L							
Chrysene	ND	0.20	ug/L							
Dibenzo(a,h)Anthracene	ND	0.20	ug/L							
Fluoranthene	ND	0.20	ug/L							
Fluorene	ND	0.20	ug/L							
Indeno(1,2,3-cd)Pyrene	ND	0.30	ug/L							
Naphthalene	ND	0.20	ug/L							
Phenanthrene	ND	0.20	ug/L							
Pyrene	ND	0.20	ug/L							
Surrogate: 1,2-Dichlorobenzene-d4	1.82		ug/L	2.50		73	30-130			
Surrogate: 2-Fluorobiphenyl	2.05		ug/L	2.50		82	30-130			
Surrogate: Nitrobenzene-d5	2.01		ug/L	2.50		80	30-130			
Surrogate: p-Terphenyl-d14	2.36		ug/L	2.50		94	30-130			
<b>CS</b>										
1-Methylnaphthalene	1.65	0.20	ug/L	2.50		66	40-140			
acenaphthene	1.68	0.20	ug/L	2.50		67	40-140			
acenaphthylene	1.59	0.20	ug/L	2.50		64	40-140			
anthracene	1.73	0.20	ug/L	2.50		69	40-140			
benzo(a)anthracene	1.91	0.20	ug/L	2.50		76	40-140			
benzo(a)pyrene	1.58	0.20	ug/L	2.50		63	40-140			
benzo(b)fluoranthene	1.60	0.20	ug/L	2.50		64	40-140			
benzo(g,h,i)perylene	1.78	0.20	ug/L	2.50		71	40-140			
benzo(k)fluoranthene	1.98	0.30	ug/L	2.50		79	40-140			
chrysene	1.97	0.20	ug/L	2.50		79	40-140			
dibenzo(a,h)Anthracene	1.84	0.20	ug/L	2.50		74	40-140			
fluoranthene	1.67	0.20	ug/L	2.50		67	40-140			
fluorene	1.83	0.20	ug/L	2.50		73	40-140			
indeno(1,2,3-cd)Pyrene	1.80	0.30	ug/L	2.50		72	40-140			
naphthalene	1.61	0.20	ug/L	2.50		64	40-140			
phenanthrene	1.91	0.20	ug/L	2.50		76	40-140			
pyrene	1.92	0.20	ug/L	2.50		77	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	1.72		ug/L	2.50		69	30-130			
Surrogate: 2-Fluorobiphenyl	1.92		ug/L	2.50		77	30-130			
Surrogate: Nitrobenzene-d5	1.80		ug/L	2.50		72	30-130			
Surrogate: p-Terphenyl-d14	2.07		ug/L	2.50		83	30-130			
<b>CS Dup</b>										
1-Methylnaphthalene	1.66	0.20	ug/L	2.50		66	40-140	0	20	
acenaphthene	1.75	0.20	ug/L	2.50		70	40-140	4	20	
acenaphthylene	1.63	0.20	ug/L	2.50		65	40-140	2	20	
anthracene	1.78	0.20	ug/L	2.50		71	40-140	3	20	
benzo(a)anthracene	1.84	0.20	ug/L	2.50		74	40-140	3	20	
benzo(a)pyrene	2.41	0.20	ug/L	2.50		96	40-140	42	20	+
benzo(b)fluoranthene	1.10	0.20	ug/L	2.50		44	40-140	37	20	+
benzo(g,h,i)perylene	1.57	0.20	ug/L	2.50		63	40-140	12	20	
benzo(k)fluoranthene	1.10	0.30	ug/L	2.50		44	40-140	57	20	+
chrysene	2.01	0.20	ug/L	2.50		80	40-140	1	20	

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606372

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>8270C(SIM) Polynuclear Aromatic Hydrocarbons</b>										
<b>Batch BF62310 - 3510C</b>										
Dibenzo(a,h)Anthracene	1.53	0.20	ug/L	2.50		61	40-140	19	20	
Fluoranthene	1.82	0.20	ug/L	2.50		73	40-140	9	20	
Fluorene	1.83	0.20	ug/L	2.50		73	40-140	0	20	
Indeno(1,2,3-cd)Pyrene	1.55	0.30	ug/L	2.50		62	40-140	15	20	
Naphthalene	1.66	0.20	ug/L	2.50		66	40-140	3	20	
Phenanthrene	1.79	0.20	ug/L	2.50		72	40-140	5	20	
Pyrene	1.82	0.20	ug/L	2.50		73	40-140	5	20	
Surrogate: 1,2-Dichlorobenzene-d4	1.75		ug/L	2.50		70	30-130			
Surrogate: 2-Fluorobiphenyl	1.96		ug/L	2.50		78	30-130			
Surrogate: Nitrobenzene-d5	1.83		ug/L	2.50		73	30-130			
Surrogate: p-Terphenyl-d14	1.99		ug/L	2.50		80	30-130			

# Semi-Volatile Organics Calibration Data

## ANALYSIS SEQUENCE

BPG0286

Instrument: SVOAMS2

Calibration ID: UNASSIGNED PAH2DY

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0286-TUN1	QC		1		6E12106		
BPG0286-CAL1	QC		2		6E22059	6D26044	
BPG0286-CAL2	QC		3		6E22058	6D26044	
BPG0286-CAL3	QC		4		6E22057	6D26044	
BPG0286-CAL4	QC		5		6E22055	6D26044	
BPG0286-CAL5	QC		6		6E22054	6D26044	
BPG0286-CAL6	QC		7		6E22053	6D26044	
BPG0286-CAL7	QC		8		6E22052	6D26044	
BPG0286-SCV1	QC		9		6E22060	6D26044	

Samples Loaded By

Date

Data Processed By

Date

# ESS LABORATORY GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/26/06	22	SV2 132 22	0606295-06	SV2KG	RRSX 25 Failed	W
	23	SV2 53	↓ -07	↓	RR10X	↓
6/27/06	1	SV2 97	BPF0216-TUN1	DETPP		VSC
	2	SV2 98	BPF0216-CW1	SV2KG		VSC
	3	SV2 99	0606310-06	✓		
	4	SV2 133 00	BF62326-BLW1	✓		
	5	SV2 134 00	BF62326-B51	✓		
	6	SV2 01	BF62326-B5D1	✓		
	7	SV2 02	0606295-01	✓		
	8	SV2 03	↓ -02	✓		
	9	SV2 04	↓ -04	✓		
	10	SV2 05	↓ -05	✓		
	11	SV2 06	↓ -06	✓		
	12	SV2 07	0606295-07	✓		
	13	SV2 08	0606310-07	✓		
	14	SV2 09	BF62326-BLW1	✓		
	15	SV2 10	BF62622-BLW1	✓		
	16	SV2 11	BF62622-B51	✓		
	17	SV2 12	BF62622-B5D1	✓		
	18	SV2 13	BF62328-BLW1	✓		
	19	SV2 14	BF62328-B51	✓		
	20	SV2 15	BF62328-B5D1	✓		
	21	SV2 16	0606320-02	✓		OK
6/27/06	22	SV2 17	0606323-02	SV2KG		VSC
6/28/06	1	SV2 19 18	BPF0229-TUN1	DETPP	6E12092	JLS
	2	SV2 20	↓ -CAL1	PAH2DX	6E22057 6E22056	JCS
	3	SV2 21	↓ -CAL1	PAH2DY	6E22057	JCS
	4	SV2 22	↓ -CAL2	PAH2DY	6E22058	JCS
6/28/06	5	SV2 23	BPF0229-CAL3	PAH2DY	6E22057	JCS

Control Number 60.0019-0601A

WJLS 6/28/06

Page \_\_\_\_\_

**ESS LABORATORY  
GCMS2 RUN LOG**

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/28/06	6	SV2 13424	<del>BPF0229 - calc</del>	PAH204	6E22055 6026044	JCS
	7	SV2 25	<del>- calc</del>		6E22054	
	8	SV2 26	<del>- calc</del>		6E22053	
	9	SV2 27	<del>- calc</del>		6E22052	
6/28/06	10	SV2 28	<del>BPF0229 - calc</del>	PAH204	6E22060	JCS
	11	SV2 29	BF603-BW1	PAH207		
	12	SV2 30	<del>R 0606356-01</del>			
	13	SV2 31	BF62133-BW1			
	14	SV2 32	BF62133-B51			
	15	SV2 33	BF62133-B5D1			
	16	SV2 34	0606321-01		RR 100x 10x	
	17	SV2 35	0606321-02		RR 20x	
	18	SV2 36	0606321-03		RR 10x	
	19	SV2 37	0606321-04		RR 10x	
	20	SV2 38	<del>BF62310-BW1</del>			
	21	SV2 39	<del>BF62310-B51</del>			
	22	SV2 40	<del>BF62310-B5D1</del>			
	23	SV2 41	<del>0606341-01</del>			
	24	SV2 42	<del>0606341-02</del>			
	25	SV2 43	<del>0606341-03</del>	PAH204		
6/28/06	1	SV2 38	BPF0236-TW1	DETPP		VAC
	2	SV2 39	BPF0236-CCV1	PAH204	nb	
	3	SV2 4140	BPF0236-CCV1	PAH204		
	4	SV2 4241	BF62310-BW1			
	5	SV2 4342	BF62310-B51			
	6	SV2 4443	BF62310-B5D1			
	7	SV2 4544	0606341-01			
	8	SV2 4645	0606341-02			
6/28/06	9	SV2 4746	0606341-03	PAH204	RR 5X	VAC

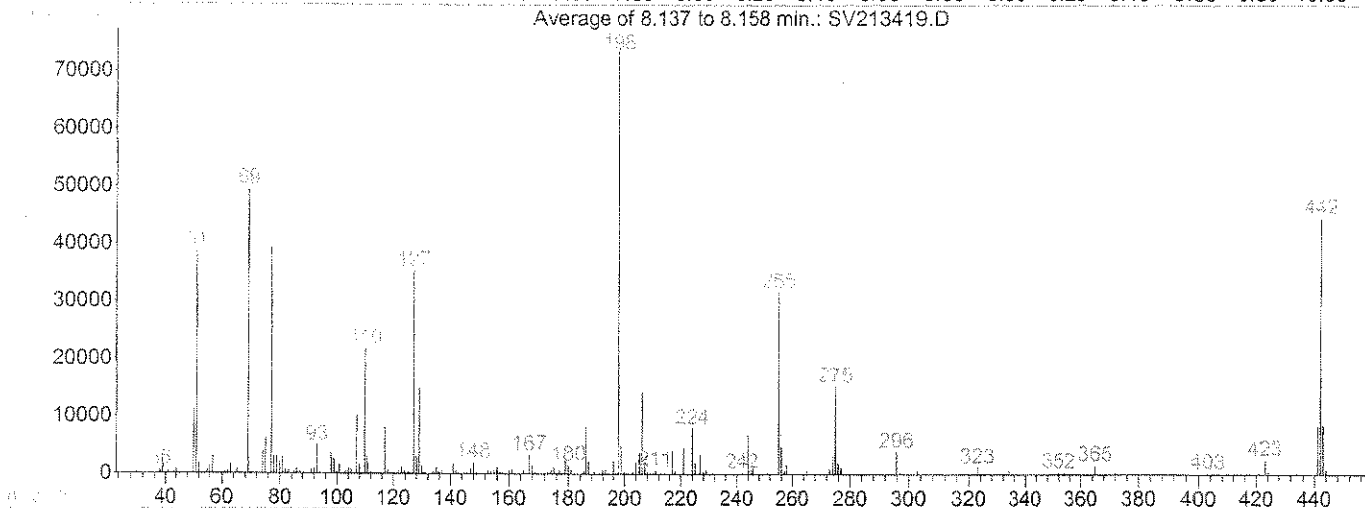
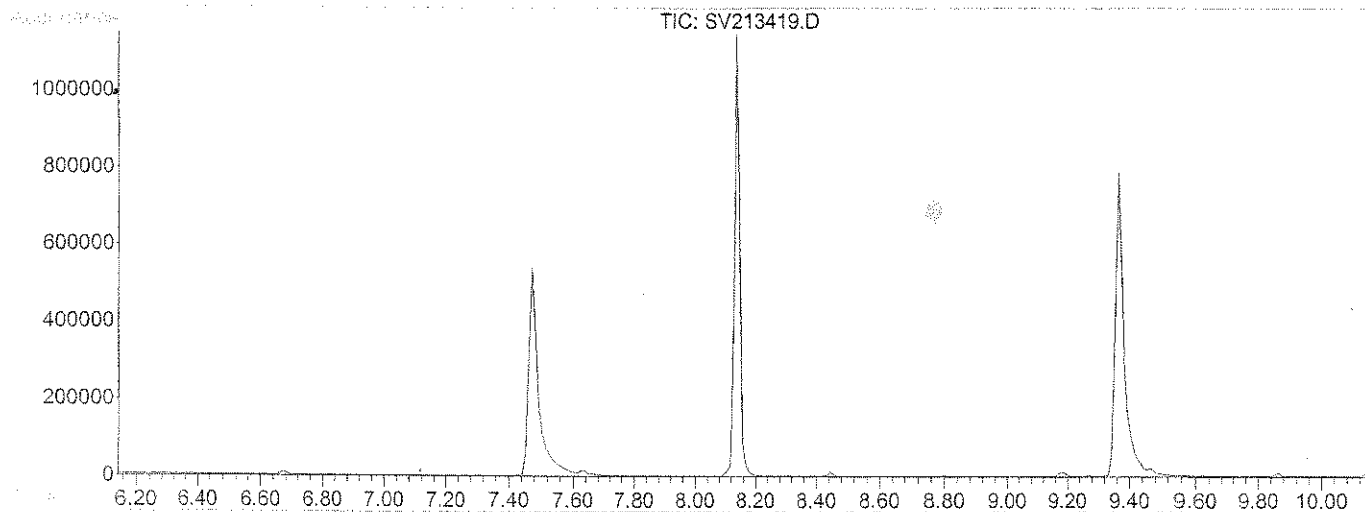
Control Number 60.0019-0601A

Page \_\_\_\_\_



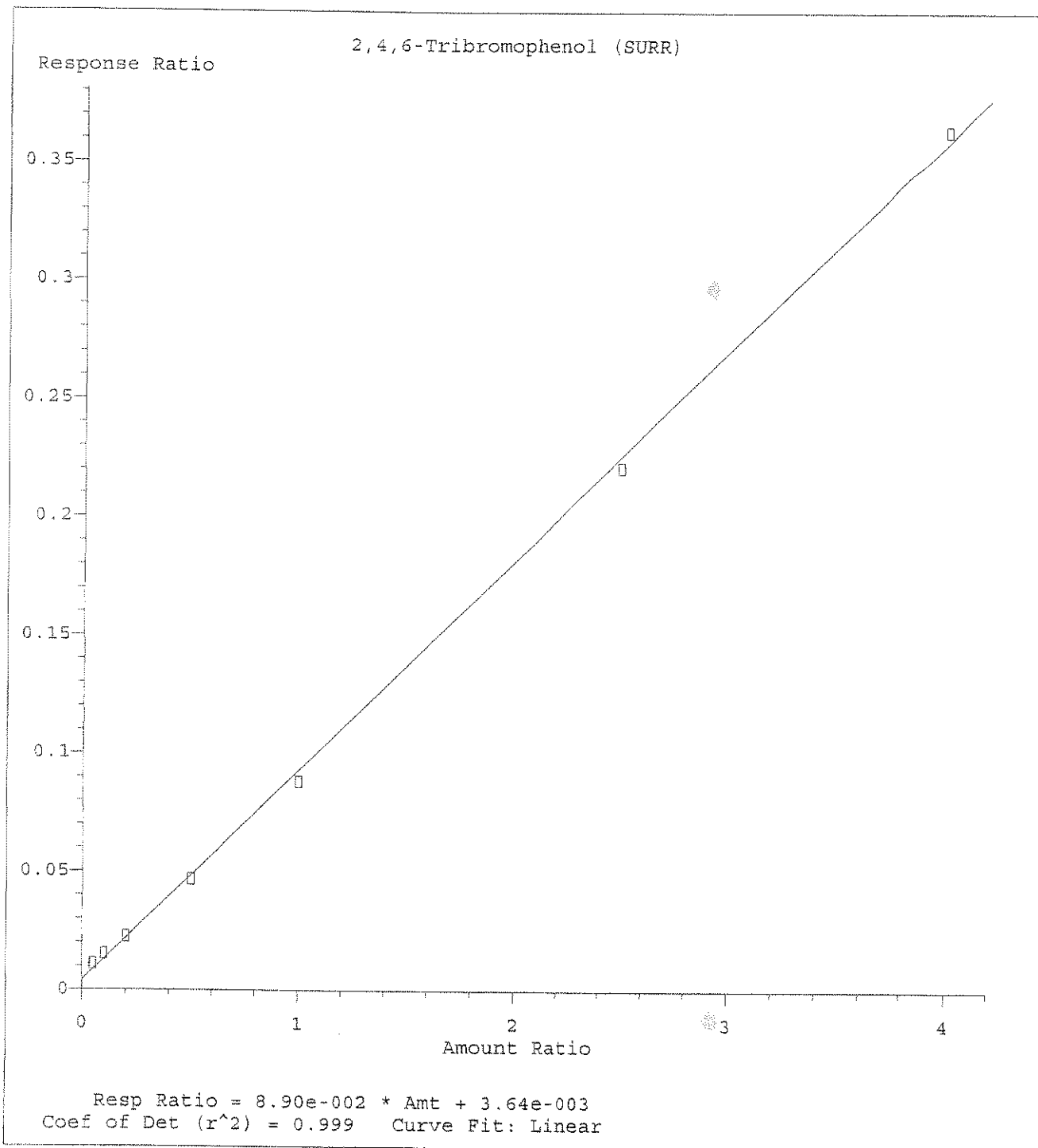
DFTPP

Data File : Q:\SVOA\MS2\_ME\ME0606\ME062806\SV213419.D Vial: 1  
 Acq On : 28 Jun 2006 6:27 am Operator: JLS  
 Sample : BPF0229-TUN1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)  
 Title : 8270

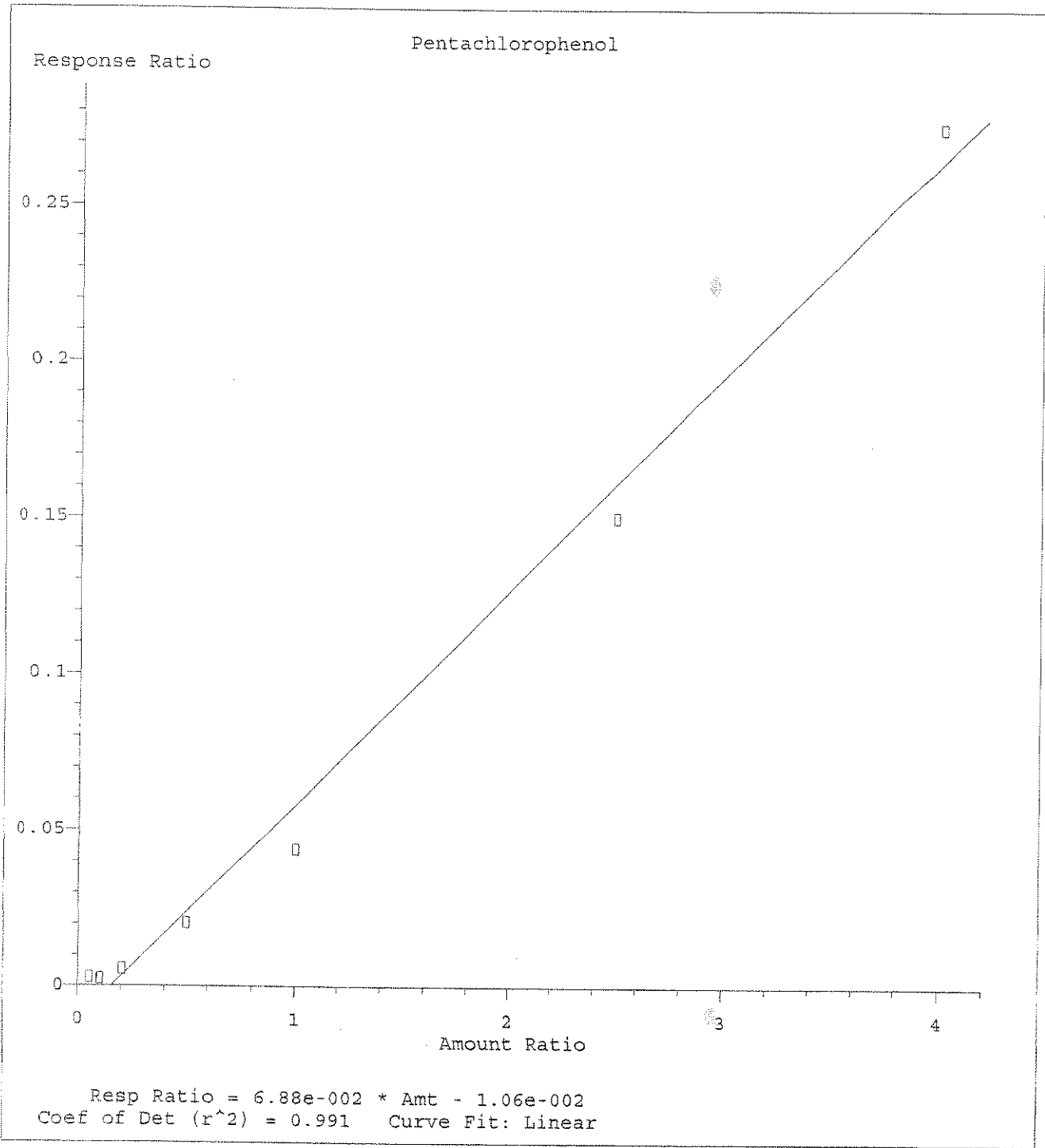


Spectrum Information: Average of 8.137 to 8.158 min.

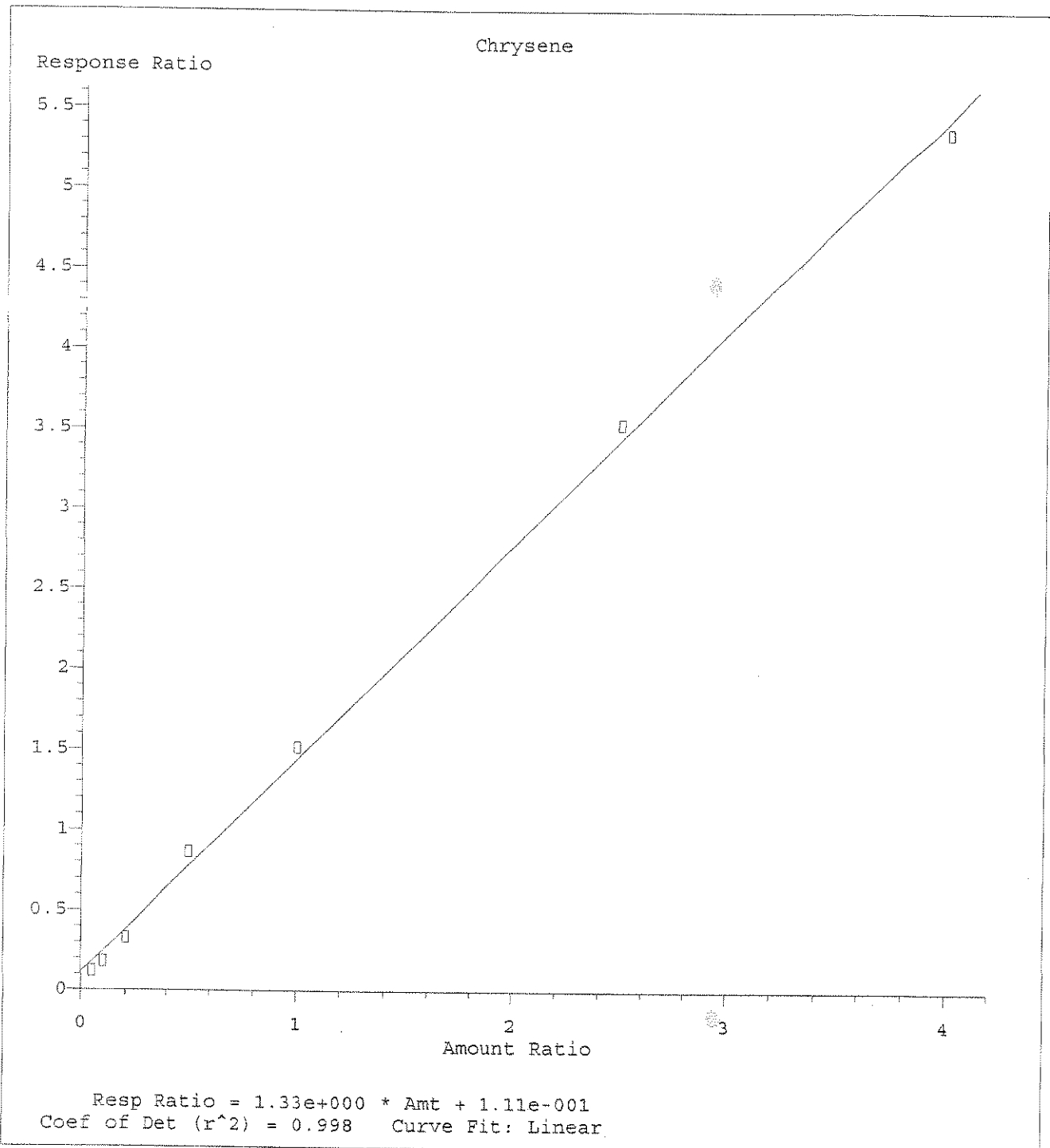
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	52.4	38508	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	67.3	49493	PASS
70	69	0.00	2	0.3	169	PASS
127	198	40	60	47.9	35209	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	73510	PASS
199	198	5	9	6.8	4985	PASS
275	198	10	30	20.7	15217	PASS
365	198	1	100	2.1	1553	PASS
441	443	0.01	100	98.1	8407	PASS
442	198	40	100	60.7	44588	PASS
443	442	17	23	19.2	8568	PASS



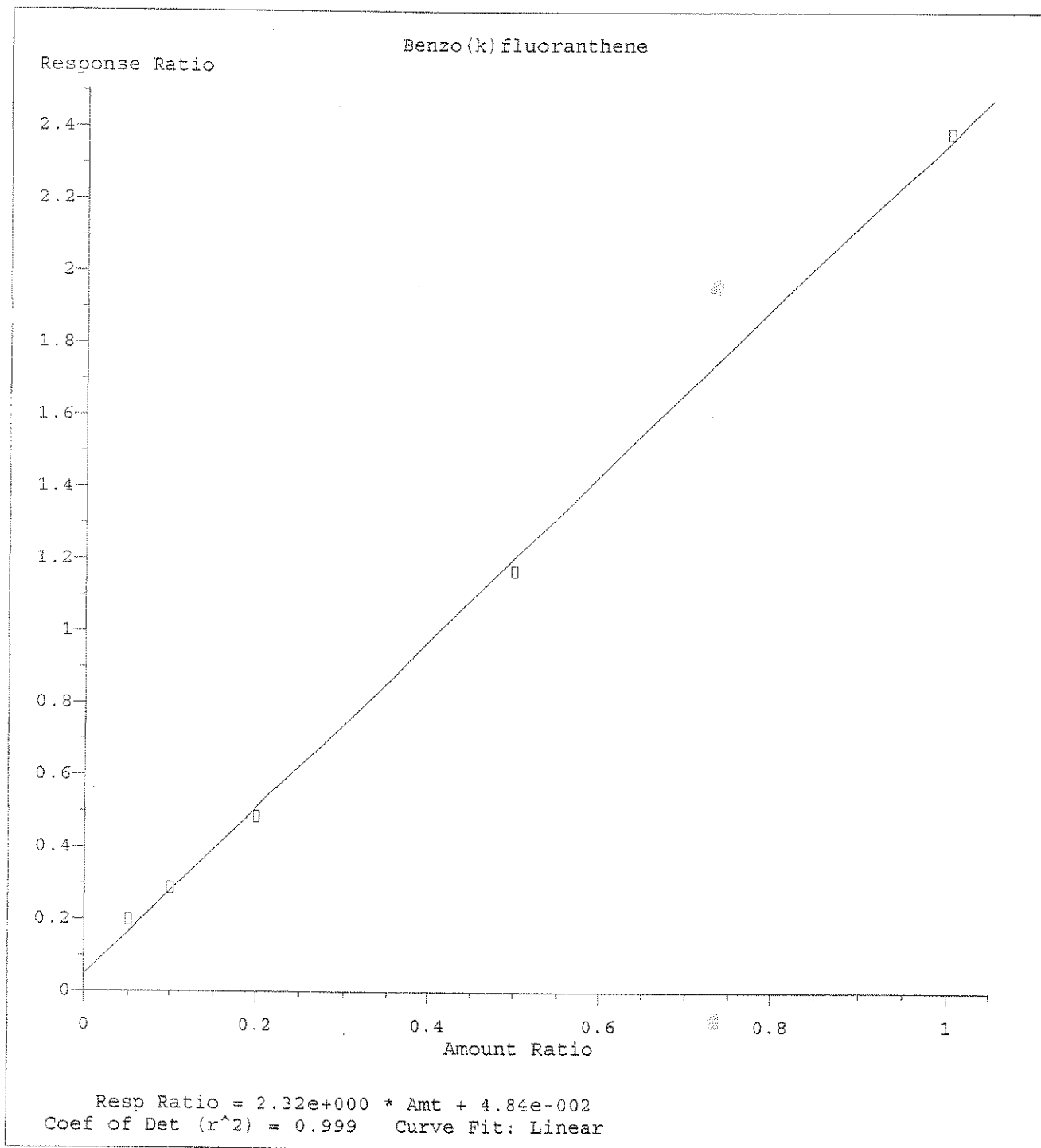
Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M  
Calibration Table Last Updated: Wed Jun 28 11:08:55 2006



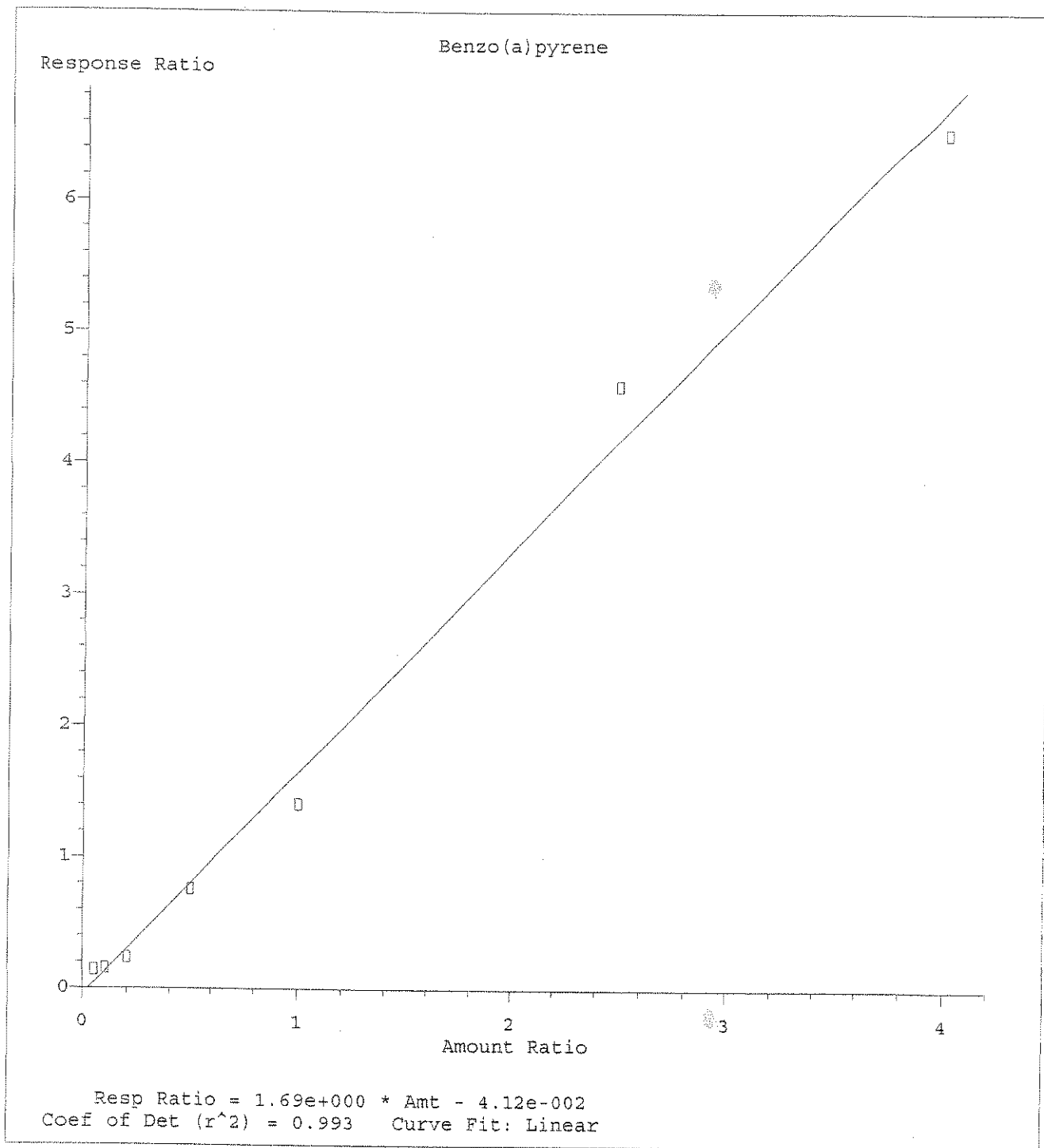
Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M  
Calibration Table Last Updated: Wed Jun 28 11:08:55 2006



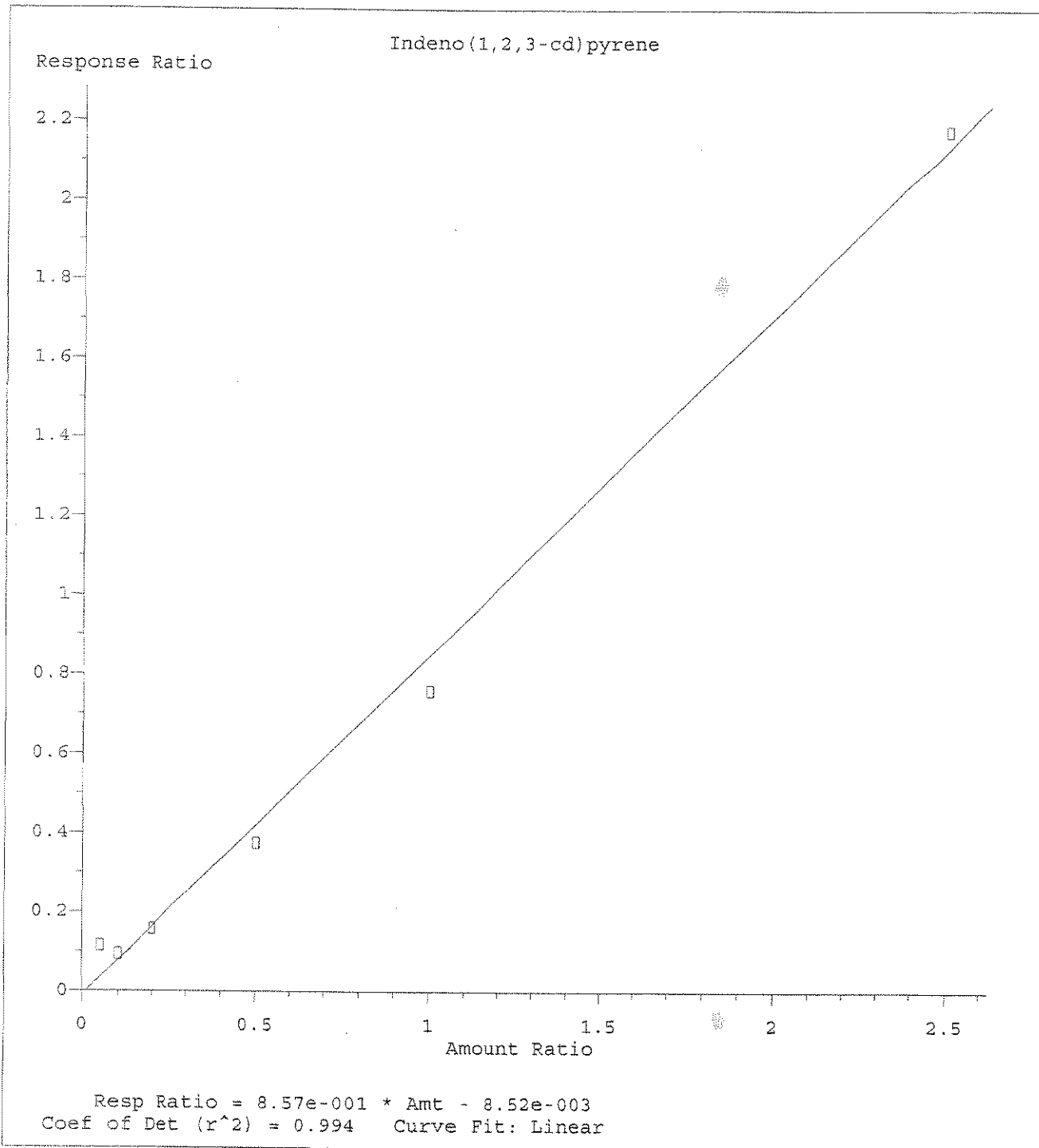
Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M  
Calibration Table Last Updated: Wed Jun 28 11:08:55 2006



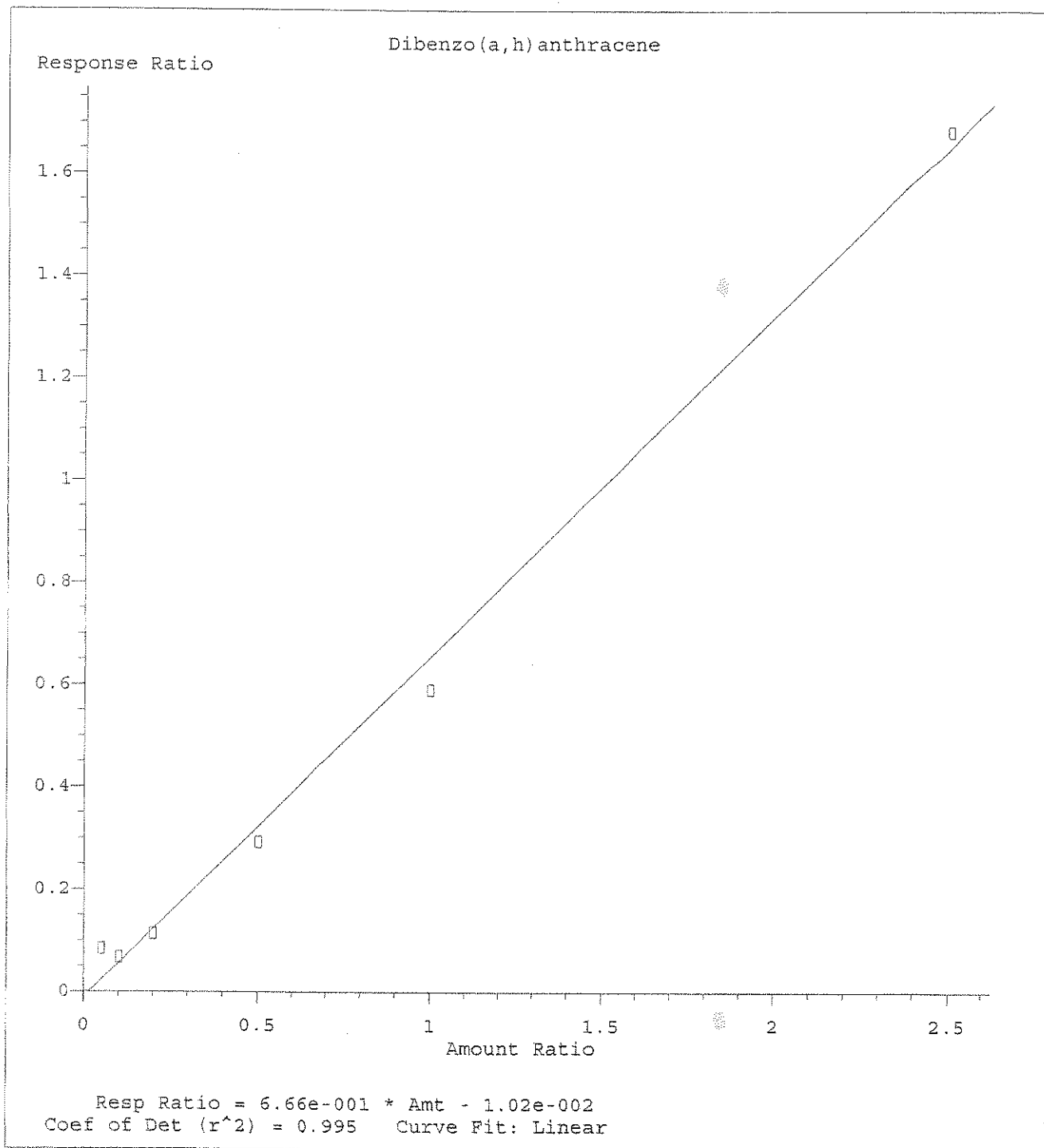
Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M  
Calibration Table Last Updated: Wed Jun 28 11:08:55 2006



Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M  
Calibration Table Last Updated: Wed Jun 28 11:08:55 2006

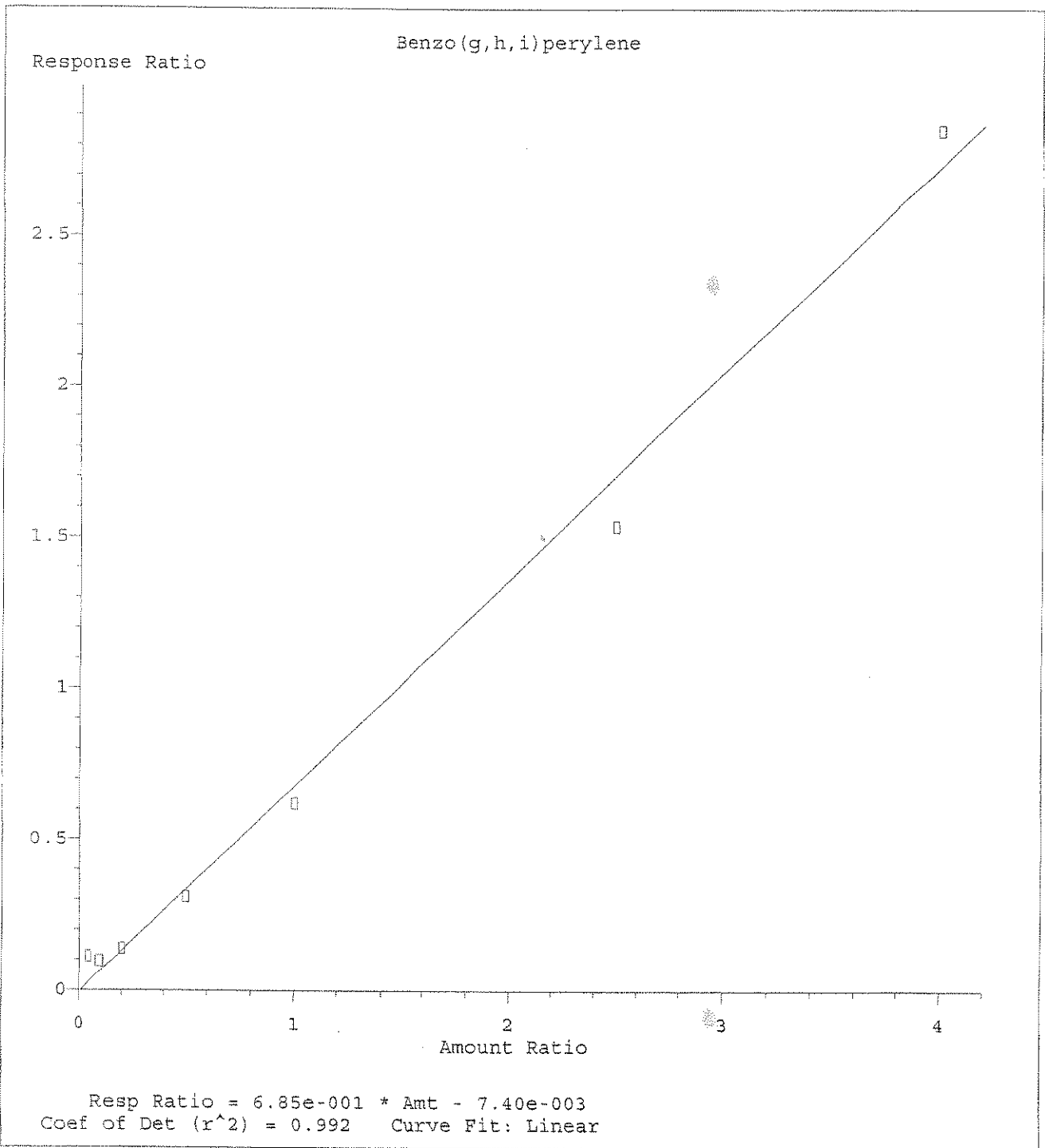


Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M  
Calibration Table Last Updated: Wed Jun 28 11:08:55 2006



Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M  
Calibration Table Last Updated: Wed Jun 28 11:08:55 2006





Method Name: C:\HPCHEM\1\METHODS\PAH2DY.M  
Calibration Table Last Updated: Wed Jun 28 11:08:55 2006

Response Factor Report GC/MS 2

Method : C:\HPCHEM\1\METHODS\PAH2DY.M (RTE Integrator)  
 Title : LL PAH ELEMENT ID 0606036  
 Last Update : Wed Jun 28 11:08:55 2006  
 Response via : Initial Calibration

Calibration Files

0.2 =SV213422.D 0.4 =SV213423.D 1.0 =SV213424.D  
 2.0 =SV213425.D 5.0 =SV213426.D 8.0 =SV213427.D

Compound	0.2	0.4	1.0	2.0	5.0	8.0	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	-----ISTD-----							
2) S 1,2 Dichlorobenzene	0.945	0.935	0.996	0.832	0.829	0.793	0.936	15.69
3) Naphthalene-d8	-----ISTD-----							
4) S Nitrobenzene-d5 (SU	0.382	0.386	0.406	0.390	0.379	0.378	0.395	6.35
5) Naphthalene	1.138	1.021	1.040	0.974	0.987	0.952	1.067	13.30
6) 2-Methylnaphthalene	0.619	0.598	0.650	0.585	0.609	0.578	0.631	10.74
7) 1-Methylnaphthalene	0.668	0.641	0.678	0.602	0.615	0.573	0.656	12.22
8) Acenaphthene-d10	-----ISTD-----							
9) S 2-Fluorobiphenyl (S	1.382	1.279	1.399	1.233	1.273	1.226	1.309	5.61
10) Acenaphthylene	1.976	1.777	2.006	1.798	1.887	1.840	1.929	8.02
11) C Acenaphthene	1.234	1.153	1.270	1.125	1.163	1.129	1.214	8.84#
12) Fluorene	1.187	1.077	1.202	1.101	1.142	1.122	1.166	7.29
13) Phenanthrene-d10	-----ISTD-----							
14) S 2,4,6-Tribromopheno	0.152	0.113	0.093	0.088	0.088	0.091	0.121	41.09
15) C Pentachlorophenol	0.023	0.027	0.041	0.044	0.060	0.069	0.046#	36.81#
16) Phenanthrene	1.021	0.960	1.049	0.952	1.013	0.989	1.023	7.51
17) Anthracene	1.290	1.187	1.258	1.138	1.139	1.126	1.232	10.44
18) C Fluoranthene	0.878	0.848	0.847	0.801	0.794	0.849	0.863	8.87#
19) Chrysene-d12	-----ISTD-----							
20) Pyrene	1.784	1.579	1.662	1.482	1.497	1.465	1.651	13.64
21) S Terphenyl-d14 (SURR	0.898	0.784	0.835	0.737	0.741	0.699	0.816	13.63
22) Benzo(a)anthracene	1.232	1.136	1.231	1.111	1.186	1.169	1.212	8.41
23) Chrysene	1.803	1.631	1.729	1.516	1.413	1.338	1.690	20.92
24) Perylene-d12	-----ISTD-----							
25) Benzo(b)fluoranthen	1.806	1.136	1.264	1.311	1.692		1.487	18.98
26) Benzo(k)fluoranthen	2.878	2.431	2.337	2.387			2.801	24.64
27) C Benzo(a)pyrene	1.559	1.173	1.513	1.407	1.838	1.630	1.707	31.37#
28) Indeno(1,2,3-cd)pyr	0.934	0.789	0.750	0.759	0.871		1.066	56.72
29) Dibenz(a,h)anthrac	0.681	0.568	0.585	0.590	0.674		0.798	55.06
30) Benzo(g,h,i)perylen	0.962	0.690	0.622	0.621	0.615	0.713	0.923	64.21

Data File : Q:\SVOA\MS2\_ME\ME0606\ME062806\SV213428.D Vial: 10  
 Acq On : 28 Jun 2006 11:02 am Operator: JLS  
 Sample : BPF0229-SCV1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jun 28 11:31 2006 Quant Results File: PAH2DY.RES

Quant Method : C:\HPCHEM\1\METHODS\PAH2DY.M (RTE Integrator)  
 Title : LL PAH ELEMENT ID 0606036  
 Last Update : Wed Jun 28 11:08:55 2006  
 Response via : Initial Calibration  
 DataAcq Meth : PAH2DX

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.68	152	33934	2.00	ng/uL	0.00
3) Naphthalene-d8	5.06	136	100895	2.00	ng/uL	0.00
8) Acenaphthene-d10	7.73	164	48095	2.00	ng/uL	0.00
13) Phenanthrene-d10	10.56	188	52432	2.00	ng/uL	0.01
19) Chrysene-d12	16.16	240	26485	2.00	ng/uL	0.00
24) Perylene-d12	19.00	264	8461	2.00	ng/uL	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
2) 1,2 Dichlorobenzene-d4 (SUR)	3.87	152	15008	0.94	ng/uL	0.01
Spiked Amount 2.500			Recovery =	37.60%		
4) Nitrobenzene-d5 (SURR)	4.26	82	19387	0.97	ng/uL	0.00
Spiked Amount 2.500			Recovery =	38.80%		
9) 2-Fluorobiphenyl (SURR)	6.59	172	30848	0.98	ng/uL	0.00
Spiked Amount 2.500			Recovery =	39.20%		
14) 2,4,6-Tribromophenol (SURR)	9.22	330	2345	0.92	ng/uL	0.00
Spiked Amount 3.750			Recovery =	24.53%		
21) Terphenyl-d14 (SURR)	13.97	244	10798	1.00	ng/uL	0.00
Spiked Amount 2.500			Recovery =	40.00%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Naphthalene	5.08	128	48607	0.90	ng/uL#	96
6) 2-Methylnaphthalene	6.00	142	28228	0.89	ng/uL	99
7) 1-Methylnaphthalene	6.16	142	1756	0.05	ng/uL	96
10) Acenaphthylene	7.46	152	36645	0.79	ng/uL#	100
11) Acenaphthene	7.78	153	26425	0.91	ng/uL	99
12) Fluorene	8.72	166	24491	0.87	ng/uL	98
15) Pentachlorophenol	10.33	266	1094	0.91	ng/uL#	100
16) Phenanthrene	10.60	178	23699	0.88	ng/uL#	99
17) Anthracene	10.70	178	29782	0.92	ng/uL#	95
18) Fluoranthene	13.10	202	20651	0.91	ng/uL	99
20) Pyrene	13.56	202	20938	0.96	ng/uL	93
22) Benzo(a)anthracene	16.13	228	14647	0.91	ng/uL	99
23) Chrysene	16.22	228	20402	0.99	ng/uL	94
25) Benzo(b)fluoranthene	18.32	252	5193m	0.83	ng/uL	
26) Benzo(k)fluoranthene	18.34	252	10787m	1.06	ng/uL	
27) Benzo(a)pyrene	18.90	252	5463	0.81	ng/uL	91
28) Indeno(1,2,3-cd)pyrene	20.99	276	3636	1.02	ng/uL#	98
29) Dibenzo(a,h)anthracene	21.01	278	2814	1.03	ng/uL#	99
30) Benzo(g,h,i)perylene	21.51	276	2915	1.03	ng/uL#	99

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS2\_ME\ME0606\ME062806\SV213428.D Vial: 10  
 Acq On : 28 Jun 2006 11:02 am Operator: JLS  
 Sample : BPF0229-SCV1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\PAH2DY.M (RTE Integrator)  
 Title : LL PAH ELEMENT ID 0606036  
 Last Update : Wed Jun 28 12:00:01 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	127	0.00
2 S	1,2 Dichlorobenzene-d4 (SURR)	0.936	0.885	5.4	112	0.01
3	Naphthalene-d8	1.000	1.000	0.0	106	0.00
4 S	Nitrobenzene-d5 (SURR)	0.395	0.384	2.8	101	0.00
5	Naphthalene	1.067	0.964	9.7	99	0.00
6	2-Methylnaphthalene	0.631	0.560	11.3	91	0.00
7	1-Methylnaphthalene	0.656	0.035#	94.7#	5#	0.00
8	Acenaphthene-d10	1.000	1.000	0.0	103	0.00
9 S	2-Fluorobiphenyl (SURR)	1.309	1.283	2.0	94	0.00
10	Acenaphthylene	1.929	1.524	21.0	78	0.00
11 C	Acenaphthene	1.214	1.099	9.5#	89	0.00
12	Fluorene	1.166	1.018	12.7	87	0.01
13	Phenanthrene-d10	1.000	1.000	0.0	107	0.01
14 S	2,4,6-Tribromophenol (SURR)	0.121	0.089	26.4	102	0.00
15 C	Pentachlorophenol	0.046	0.042#	8.7#	110	0.00
16	Phenanthrene	1.023	0.904	11.6	92	0.01
17	Anthracene	1.232	1.136	7.8	96	0.00
18 C	Fluoranthene	0.863	0.788	8.7#	99	0.01
19	Chrysene-d12	1.000	1.000	0.0	101	0.00
20	Pyrene	1.651	1.581	4.2	96	0.01
21 S	Terphenyl-d14 (SURR)	0.816	0.815	0.1	98	0.00
22	Benzo(a)anthracene	1.212	1.106	8.7	91	0.00
23	Chrysene	1.690	1.541	8.8	90	0.01
24	Perylene-d12	1.000	1.000	0.0	84	0.00
25	Benzo(b)fluoranthene	1.487	1.228	17.4	82	0.00
26	Benzo(k)fluoranthene	2.801	2.550	9.0	92	0.00
27 C	Benzo(a)pyrene	1.707	1.291	24.4#	72	0.00
28	Indeno(1,2,3-cd)pyrene	1.066	0.859	19.4	97	0.00
29	Dibenzo(a,h)anthracene	0.798	0.665	16.7	96	0.00
30	Benzo(g,h,i)perylene	0.923	0.689	25.4	93	-0.05

## ANALYSIS SEQUENCE

BPF0236

Instrument: SVOAMS2

Calibration ID: UNASSIGNED PAH20Y

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0236-TUN1	QC		1		6F26111		
BPF0236-CCV1	QC		2		6F28045	6F13054	
BF62310-BLK1	QC		3			6F13054	
BF62310-BS1	QC		4			6F13054	
BF62310-BSD1	QC		5			6F13054	
0606341-01	SVOC: 8270 ppm PAH SIM	G	6			6F13054	Vanasse Hangen Brustlin, Inc.
0606341-02	SVOC: 8270 ppm PAH SIM	G	7			6F13054	Vanasse Hangen Brustlin, Inc.
0606341-03	SVOC: 8270 ppm PAH SIM	G	8			6F13054	Vanasse Hangen Brustlin, Inc.
0606371-01	SVOC: 8270 ppm PAH SIM	I	9			6F13054	Vanasse Hangen Brustlin, Inc.
0606346-01	SVOC: 8270 ppb PAH SIM	G	10			6F13054	MACTEC Engineering & Consulting, Inc.
0606346-02	SVOC: 8270 ppb PAH SIM	O	11			6F13054	MACTEC Engineering & Consulting, Inc.
0606346-03	SVOC: 8270 ppb PAH SIM	O	12			6F13054	MACTEC Engineering & Consulting, Inc.
0606346-05	SVOC: 8270 ppb PAH SIM	G	13			6F13054	MACTEC Engineering & Consulting, Inc.
0606346-06	SVOC: 8270 ppb PAH SIM	G	14			6F13054	MACTEC Engineering & Consulting, Inc.
0606346-07	SVOC: 8270 ppb PAH SIM	G	15			6F13054	MACTEC Engineering & Consulting, Inc.
0606346-08	SVOC: 8270 ppb PAH SIM	G	16			6F13054	MACTEC Engineering & Consulting, Inc.
0606346-09	SVOC: 8270 ppb PAH SIM	G	17			6F13054	MACTEC Engineering & Consulting, Inc.

Samples Loaded By

Date

Data Processed By

Date

# ESS LABORATORY GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/28/06	6	SV2 13424	BPF0229 - cal 4	PAH20Y		JCS
	7	SV2 25	- cal 5			
	8	SV2 26	- cal 6			
	9	SV2 27	- cal 7			
6/28/06	10	SV2 28	BPF0229 - SCVI	PAH20Y		JCS
	11	SV2 29	BPF023 - BK1	PAH20Y		
	12	SV2 30	0606356 - 01			
	13	SV2 31	BFB2133 - B61			
	14	SV2 32	BFB2133 - B51			
	15	SV2 33	BFB2133 - B5D1			
	16	SV2 34	0606321 - 01		RR 100x 10x	
	17	SV2 35	0606321 - 02		RR 20x	
	18	SV2 36	0606321 - 03		RR 10x	
	19	SV2 37	0606321 - 04		RR 10x	
	20	SV2 38	BFB2310 - BTK1			
	21	SV2 39	BFB2310 - B51			
	22	SV2 40	BFB2310 - B5D1			
	23	SV2 41	0606341 - 01			
	24	SV2 42	0606341 - 02			
	25	SV2 43	0606341 - 03	PAH20Y		
6/28/06	1	SV2 38	BPF0236 - T11	DETRP		MC
	2	SV2 39	BPF0236 - CCVI	PAH20Y	MC	
	3	SV2 41	BPF0236 - CCVI	PAH20Y		
	4	SV2 42	BFB2310 - B61			
	5	SV2 43	BFB2310 - B51			
	6	SV2 44	BFB2310 - B5D1			
	7	SV2 45	0606341 - 01			
N	8	SV2 46	0606341 - 02			N
6/28/06	9	SV2 47	0606341 - 03	PAH20Y	MCX	MC

Control Number 60.0019-0601A

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**ESS LABORATORY  
GCMS2 RUN LOG**

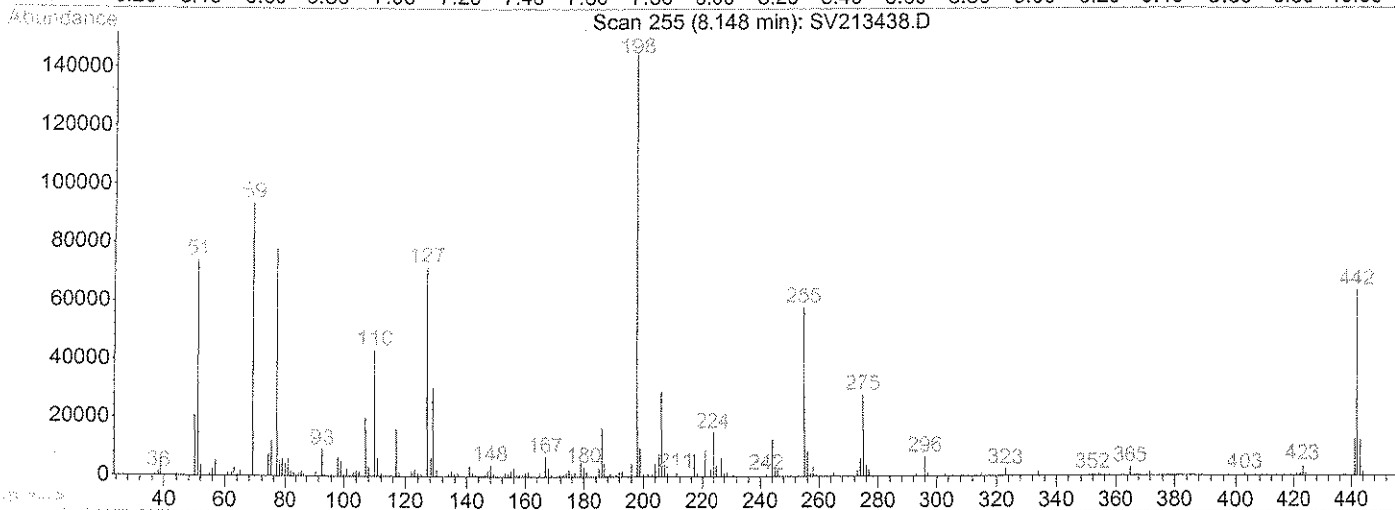
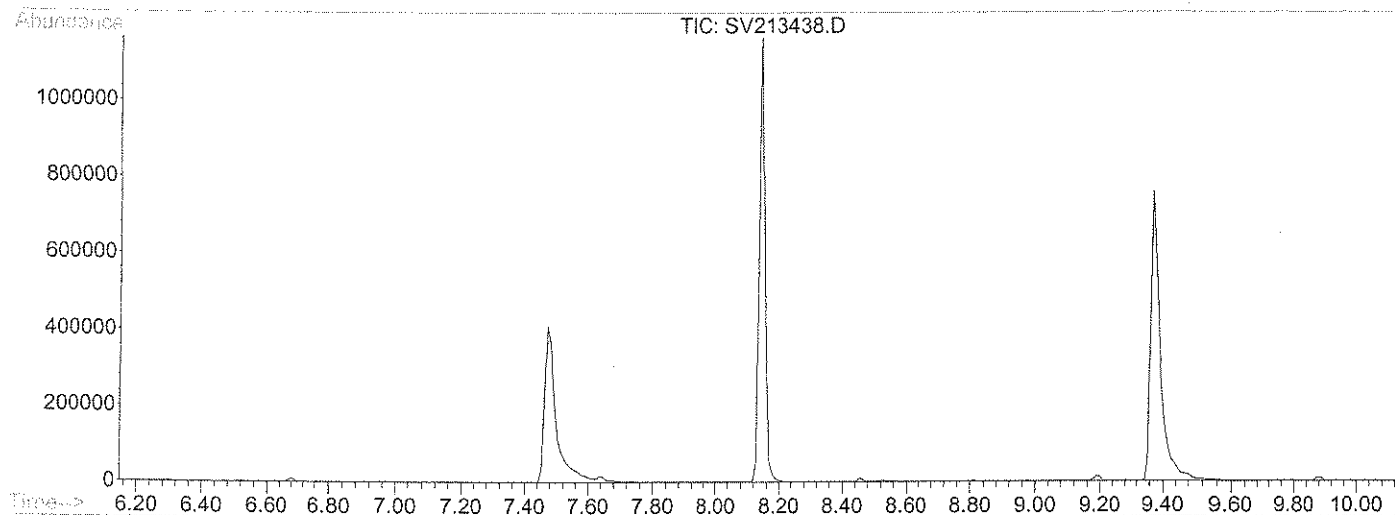
COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/28/06	10	SV2 134 48	0606371-01	✓ PAH2DV		NSC
	11	SV2 49	0606346-01	✓		
	12	SV2 50	-02	✓		
	13	SV2 51	-03	✓		
	14	SV2 52	-05	✓		
	15	SV2 53	-06	✓		
	16	SV2 54	-07	✓		
	17	SV2 55	-08	✓		
	18	SV2 56	0606346-09	✓		
	19	SV2 57	0606321-01	✓	10x	
	20	SV2 58	-01	✓	100x RR 500 X	
	21	SV2 59	-02	✓	20x	
	22	SV2 60	-03	✓	10x	
6/28/06	23	SV2 61	0606321-04	✓ PAH2DV	10x	NSC
6/29/06	1	SV2 62	BPF0242-Turn1	✓ OFTPP		NSC
	2	SV2 63	BPF0242-CCV1	✓ PAH2DV		
	2	SV2 64	BPF0242-CCV1	✓		
	3	SV2 65	BPF2839-BLW1	✓		
	4	SV2 66	BPF2839-BSS1	✓		
	5	SV2 67	BPF2839-BSP1	✓		
	6	SV2 68	0606346-15	✓		
	7	SV2 69	-14	✓		
	8	SV2 70	-13	✓		
	9	SV2 71	-11	✓		
	10	SV2 72	0606346-10	✓		
	11	SV2 73	0606372-03	✓		
	12	SV2 74	0606372-02	✓		
	13	SV2 75	0606372-04	✓		
6/29/06	14	SV2 76	0606383-15	✓ PAH2DV		NSC

Control Number 60.0019-0601A

Page \_\_\_\_\_

Data File : Q:\SVOA\MS2\_ME\ME0606\ME062806\SV213438.D Vial: 1  
 Acq On : 28 Jun 2006 5:21 pm Operator: VSC  
 Sample : BPF0236-TUN1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Method : C:\HPCHEM\1\METHODS\PAH2DZ.M (RTE Integrator)  
 Title : LL PAH ELEMENT ID 0606036



## Spectrum Information: Scan 255

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	51.1	73896	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	64.8	93640	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	49.6	71672	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	144576	PASS
199	198	5	9	6.6	9551	PASS
275	198	10	30	19.3	27848	PASS
365	198	1	100	2.0	2824	PASS
441	443	0.01	100	99.4	12281	PASS
442	198	40	100	44.0	63560	PASS
443	442	17	23	19.4	12349	PASS



Data File : Q:\SVOA\MS2\_ME\ME0606\ME062806\SV213441.D Vial: 3  
Acq On : 28 Jun 2006 6:11 pm Operator: VSC  
Sample : BPF0236-CCV1 Inst : GC/MS 2  
Misc : Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jun 29 11:18 2006

Quant Results File: PAH2DY.RES

Quant Method : C:\HPCHEM\1\METHODS\PAH2DY.M (RTE Integrator)

Title : LL PAH ELEMENT ID 0606036

Last Update : Wed Jun 28 12:00:01 2006

Response via : Initial Calibration

DataAcq Meth : PAH2DY

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.67	152	25321	2.00	ng/uL	0.00
3) Naphthalene-d8	5.04	136	79171	2.00	ng/uL	0.00
8) Acenaphthene-d10	7.72	164	37544	2.00	ng/uL	0.00
13) Phenanthrene-d10	10.55	188	45733	2.00	ng/uL	0.00
19) Chrysene-d12	16.16	240	24612	2.00	ng/uL	0.00
24) Perylene-d12	19.01	264	10071	2.00	ng/uL	0.01

System Monitoring Compounds

2) 1,2 Dichlorobenzene-d4 (SUR)	3.86	152	12429	1.05	ng/uL	0.00
Spiked Amount	2.500		Recovery	=	42.00%	
4) Nitrobenzene-d5 (SURR)	4.25	82	16395	1.05	ng/uL	-0.01
Spiked Amount	2.500		Recovery	=	42.00%	
9) 2-Fluorobiphenyl (SURR)	6.58	172	26095	1.06	ng/uL	0.00
Spiked Amount	2.500		Recovery	=	42.40%	
14) 2,4,6-Tribromophenol (SURR)	9.22	330	1770	0.79	ng/uL	0.00
Spiked Amount	3.750		Recovery	=	21.07%	
21) Terphenyl-d14 (SURR)	13.97	244	10387	1.03	ng/uL	0.00
Spiked Amount	2.500		Recovery	=	41.20%	

Target Compounds

						Qvalue
5) Naphthalene	5.07	128	41133	0.97	ng/uL#	96
6) 2-Methylnaphthalene	5.99	142	23724	0.95	ng/uL	96
7) 1-Methylnaphthalene	6.15	142	25128	0.97	ng/uL	95
10) Acenaphthylene	7.44	152	37892	1.05	ng/uL#	100
11) Acenaphthene	7.77	153	24056	1.06	ng/uL	99
12) Fluorene	8.70	166	23246	1.06	ng/uL	99
15) Pentachlorophenol	10.33	266	976	0.93	ng/uL#	100
16) Phenanthrene	10.60	178	23707	1.01	ng/uL#	99
17) Anthracene	10.69	178	29493	1.05	ng/uL#	96
18) Fluoranthene	13.09	202	20296	1.03	ng/uL	100
20) Pyrene	13.55	202	21459	1.06	ng/uL	95
22) Benzo(a)anthracene	16.13	228	15036	1.01	ng/uL	99
23) Chrysene	16.22	228	21948	1.17	ng/uL	94
25) Benzo(b)fluoranthene	18.32	252	9148m	1.22	ng/uL	
26) Benzo(k)fluoranthene	18.35	252	14918m	1.24	ng/uL	
27) Benzo(a)pyrene	18.91	252	7456	0.93	ng/uL	92
28) Indeno(1,2,3-cd)pyrene	21.00	276	3816	0.90	ng/uL#	99
29) Dibenzo(a,h)anthracene	21.02	278	2878	0.89	ng/uL#	94
30) Benzo(g,h,i)perylene	21.52	276	3198	0.95	ng/uL#	99

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

Data File : Q:\SVOA\MS2\_ME\ME0606\ME062806\SV213441.D Vial: 3  
 Acq On : 28 Jun 2006 6:11 pm Operator: VSC  
 Sample : BPF0236-CCV1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\PAH2DY.M (RTE Integrator)  
 Title : LL PAH ELEMENT ID 0606036  
 Last Update : Wed Jun 28 12:00:01 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
2 S	1,2 Dichlorobenzene-d4 (SURR)	0.936	0.982	-4.9	93	0.00
3	Naphthalene-d8	1.000	1.000	0.0	83	0.00
4 S	Nitrobenzene-d5 (SURR)	0.395	0.414	-4.8	85	-0.01
5	Naphthalene	1.067	1.039	2.6	83	0.00
6	2-Methylnaphthalene	0.631	0.599	5.1	77	0.00
7	1-Methylnaphthalene	0.656	0.635	3.2	78	0.00
8	Acenaphthene-d10	1.000	1.000	0.0	80	0.00
9 S	2-Fluorobiphenyl (SURR)	1.309	1.390	-6.2	80	0.00
10	Acenaphthylene	1.929	2.019	-4.7	81	0.00
11 C	Acenaphthene	1.214	1.281	-5.5#	81	0.00
12	Fluorene	1.166	1.238	-6.2	83	0.00
13	Phenanthrene-d10	1.000	1.000	0.0	93	0.00
14 S	2,4,6-Tribromophenol (SURR)	0.121	0.077	36.4#	77	0.00
15 C	Pentachlorophenol	0.046	0.043#	6.5#	98	0.00
16	Phenanthrene	1.023	1.037	-1.4	92	0.00
17	Anthracene	1.232	1.290	-4.7	96	0.00
18 C	Fluoranthene	0.863	0.888	-2.9#	98	0.00
19	Chrysene-d12	1.000	1.000	0.0	94	0.00
20	Pyrene	1.651	1.744	-5.6	98	0.00
21 S	Terphenyl-d14 (SURR)	0.816	0.844	-3.4	95	0.00
22	Benzo(a)anthracene	1.212	1.222	-0.8	93	0.00
23	Chrysene	1.690	1.784	-5.6	97	0.00
24	Perylene-d12	1.000	1.000	0.0	100	0.01
25	Benzo(b)fluoranthene	1.487	1.817	-22.2	144	0.00
26	Benzo(k)fluoranthene	2.801	2.963	-5.8	127	0.02
27 C	Benzo(a)pyrene	1.707	1.481	13.2#	98	0.01
28	Indeno(1,2,3-cd)pyrene	1.066	0.758	28.9	101	0.00
29	Dibenzo(a,h)anthracene	0.798	0.572	28.3	98	0.01
30	Benzo(g,h,i)perylene	0.923	0.635	31.2#	103	-0.04

## ANALYSIS SEQUENCE

BPF0242

Instrument: SVOAMS2

Calibration ID: UNASSIGNED *PAH204*

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0242-TUN1	QC		1		6F26111		
BPF0242-CCV1	QC		2		6F28045	6F13054	
0606346-10	SVOC: 8270 ppb PAH SIM	G	3			6F13054	MACTEC Engineering & Consulting, Inc
0606346-11	SVOC: 8270 ppb PAH SIM	G	4			6F13054	MACTEC Engineering & Consulting, Inc
0606346-13	SVOC: 8270 ppb PAH SIM	G	5			6F13054	MACTEC Engineering & Consulting, Inc
0606346-14	SVOC: 8270 ppb PAH SIM	G	6			6F13054	MACTEC Engineering & Consulting, Inc
0606346-15	SVOC: 8270 ppb PAH SIM	G	7			6F13054	MACTEC Engineering & Consulting, Inc
0606372-01	SVOC: 8270 ppb PAH SIM	A	8			6F13054	MACTEC Engineering & Consulting, Inc
0606372-02	SVOC: 8270 ppb PAH SIM	A	9			6F13054	MACTEC Engineering & Consulting, Inc
0606372-03	SVOC: 8270 ppb PAH SIM	G	10			6F13054	MACTEC Engineering & Consulting, Inc
BF62839-BLK1	QC		11			6F13054	
BF62839-BS1	QC		12			6F13054	
BF62839-BSD1	QC		13			6F13054	
0606383-15	SVOC: 8270 ppb PAH SIM	A	14			6F13054	MACTEC Engineering & Consulting, Inc

\_\_\_\_\_ samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

\_\_\_\_\_ Data Processed By \_\_\_\_\_ Date \_\_\_\_\_

**ESS LABORATORY  
GCMS2 RUN LOG**

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/28/06	10	SV2 134 48	0606371-01	✓ PAH2DY		USE
	11	SV2 49	0606346-01	✓		
	12	SV2 50	-02	✓		
	13	SV2 51	-03	✓		
	14	SV2 52	-05	✓		
	15	SV2 53	-06	✓		
	16	SV2 54	-07	✓		
	17	SV2 55	-08	✓		
	18	SV2 56	0606346-09	✓		
	19	SV2 57	0606321-01	✓	10x	
	20	SV2 58	-01	✓	100x RR500X	
	21	SV2 59	-02	✓	20x	
	22	SV2 60	-03	✓	10X	
6/28/06	23	SV2 61	0606321-04	✓ PAH2DY	10X	USE
6/29/06	1	SV2 62	BPF0242-TM1	✓ OPTPP		USE
	2	SV2 63	BPF0242-CV1	✓ PAH2DY		
	2	SV2 64	BPF0242-CV1	✓		
	3	SV2 65	BF62839-BLW1	✓		
	4	SV2 66	BF62839-BJ1	✓		
	5	SV2 67	BF62839-BSP1	✓		
	6	SV2 68	0606346-15	✓		
	7	SV2 69	-14	✓		
	8	SV2 70	-13	✓		
	9	SV2 71	-11	✓		
	10	SV2 72	0606346-10	✓		
	11	SV2 73	0606372-03	✓		
	12	SV2 74	0606372-02	✓		
	13	SV2 75	0606372-01	✓		
6/29/06	14	SV2 76	0606383-15	✓ PAH2DY		USE

Control Number 60.0019-0601A

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**ESS LABORATORY  
GCMS2 RUN LOG**

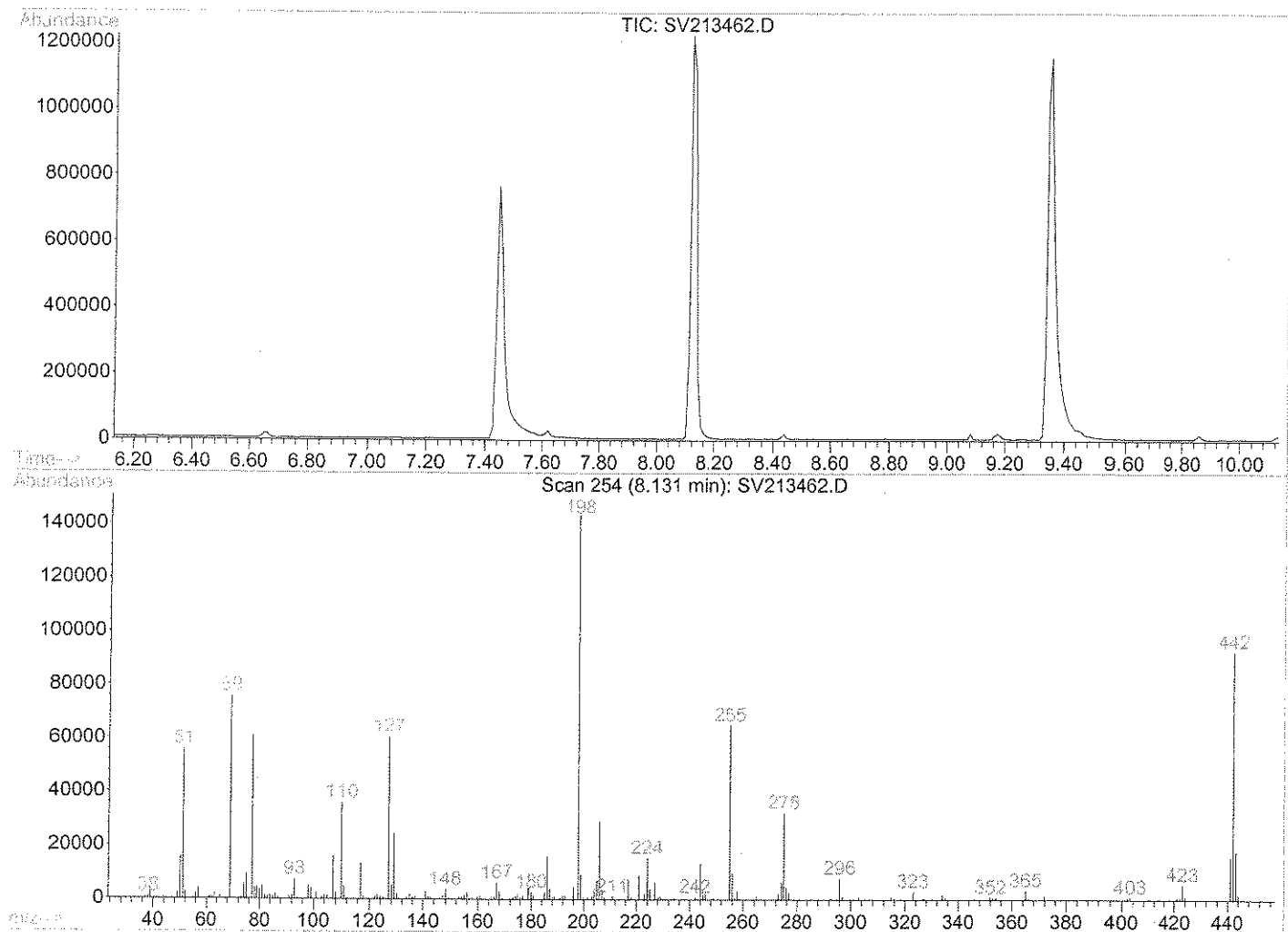
COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/29/06	15	SV2 134 77	0606321-01	PAN2DY		VSL
	16	SV2 78	0606341-03			VSL
	17	SV2 79	0606346-02			VSL
	18	SV2 80	0606346-07	PAN2DY		VSL
	1	SV2 81	BPF0250-TM1	OFTPP	6:12pm	VSL
	2	SV2 82	BPF0250-CV1	SV2KG		VSL
	3	SV2 83	BF62605-BLW1			
	4	SV2 84	BF62605-B51			
	5	SV2 85	BF62605-BSD1			
	6	SV2 86	0606373-01			
	7	SV2 87	-02			
	8	SV2 88	-03			
	9	SV2 89	-04			
	10	SV2 90	-05			
	11	SV2 91	-06			
	12	SV2 92	-07			
	13	SV2 93	-08			
	14	SV2 94	-09			
	15	SV2 95	0606373-10			
	16	SV2 96	BF62605-M51			
	17	SV2 97	BF62605-MSD1			
	18	SV2 98	0606373-12			
	19	SV2 134 99	-13			
	20	SV2 135 00	-14			
	21	SV2 01	-13	SV2KG		
6/29/06	22	SV2 02	0606373-16	SV2KG	4:45 AM	VSL
6/30/06	1	SV2 03	BPF0254-TM1	OFTPP	6/30/06	VSL
6/30/06	2	SV2 04	BPF0256-CV1	SV2KG		VSL
6/30/06	3	SV2 05	BPF0254-CV1	SV2KG		VSL

Control Number 60.0019-0601A

Page \_\_\_\_\_

Data File : Q:\SVOA\MS2\_ME\ME0606\ME062906\SV213462.D Vial: 1  
 Acq On : 29 Jun 2006 7:01 am Operator: JLS  
 Sample : TUN1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Method : C:\HPCHEM\1\METHODS\PAH2DY.M (RTE Integrator)  
 Title : LL PAH ELEMENT ID 0606036



## Spectrum Information: Scan 254

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.8	55816	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.7	75664	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	42.1	60504	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	143680	PASS
199	198	5	9	6.4	9133	PASS
275	198	10	30	22.5	32320	PASS
365	198	1	100	2.4	3392	PASS
441	443	0.01	100	87.7	15733	PASS
442	198	40	100	64.6	92760	PASS
443	442	17	23	19.3	17936	PASS

Data File : Q:\SVOA\MS2\_ME\ME0606\ME062906\SV213464.D Vial: 2  
 Acq On : 29 Jun 2006 7:54 am Operator: JLS  
 Sample : BPF0242-CCV1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\PAH2DY.M (RTE Integrator)  
 Title : LL PAH ELEMENT ID 0606036  
 Last Update : Thu Jun 29 11:19:29 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	-0.02
2 S	1,2 Dichlorobenzene-d4 (SURR)	0.936	0.987	-5.4	104	-0.02
3	Naphthalene-d8	1.000	1.000	0.0	97	-0.02
4 S	Nitrobenzene-d5 (SURR)	0.395	0.404	-2.3	97	-0.01
5	Naphthalene	1.067	1.044	2.2	98	-0.02
6	2-Methylnaphthalene	0.631	0.617	2.2	92	-0.02
7	1-Methylnaphthalene	0.656	0.650	0.9	93	-0.02
8	Acenaphthene-d10	1.000	1.000	0.0	96	-0.02
9 S	2-Fluorobiphenyl (SURR)	1.309	1.371	-4.7	94	-0.02
10	Acenaphthylene	1.929	1.944	-0.8	93	-0.02
11 C	Acenaphthene	1.214	1.238	-2.0#	93	-0.02
12	Fluorene	1.166	1.226	-5.1	98	-0.02
13	Phenanthrene-d10	1.000	1.000	0.0	120	-0.02
14 S	2,4,6-Tribromophenol (SURR)	0.121	0.037#	69.4#	47#	0.00
15 C	Pentachlorophenol	0.046	0.039#	15.2#	116	-0.02
16	Phenanthrene	1.023	1.004	1.9	115	-0.02
17	Anthracene	1.232	1.248	-1.3	119	-0.02
18 C	Fluoranthene	0.863	0.767	11.1#	108	-0.02
19	Chrysene-d12	1.000	1.000	0.0	105	-0.02
20	Pyrene	1.651	1.730	-4.8	109	-0.02
21 S	Terphenyl-d14 (SURR)	0.816	0.884	-8.3	111	-0.02
22	Benzo(a)anthracene	1.212	1.123	7.3	96	-0.02
23	Chrysene	1.690	1.750	-3.6	106	-0.03
24	Perylene-d12	1.000	1.000	0.0	105	-0.03
25	Benzo(b)fluoranthene	1.487	1.074	27.8	89	-0.02
26	Benzo(k)fluoranthene	2.801	2.673	4.6	120	-0.02
27 C	Benzo(a)pyrene	1.707	1.417	17.0#	98	-0.02
28	Indeno(1,2,3-cd)pyrene	1.066	0.723	32.2#	101	-0.04
29	Dibenzo(a,h)anthracene	0.798	0.546	31.6#	98	-0.03
30	Benzo(g,h,i)perylene	0.923	0.657	28.8	111	0.01

Data File : Q:\SVOA\MS2\_ME\ME0606\ME062906\SV213464.D Vial: 2  
Acq On : 29 Jun 2006 7:54 am Operator: JLS  
Sample : BPF0242-CCV1 Inst : GC/MS 2  
Misc : Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jun 29 8:34 2006

Quant Results File: PAH2DY.RES

Quant Method : C:\HPCHEM\1\METHODS\PAH2DY.M (RTE Integrator)  
Title : LL PAH ELEMENT ID 0606036  
Last Update : Wed Jun 28 12:00:01 2006  
Response via : Initial Calibration  
DataAcq Meth : PAH2DY

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
-----						
1) 1,4-Dichlorobenzene-d4	3.65	152	28124	2.00	ng/uL	-0.02
3) Naphthalene-d8	5.03	136	92326	2.00	ng/uL	-0.02
8) Acenaphthene-d10	7.70	164	44912	2.00	ng/uL	-0.02
13) Phenanthrene-d10	10.53	188	58750	2.00	ng/uL	-0.02
19) Chrysene-d12	16.14	240	27542	2.00	ng/uL	-0.02
24) Perylene-d12	18.98	264	10489	2.00	ng/uL	-0.01
-----						
System Monitoring Compounds						
2) 1,2 Dichlorobenzene-d4 (SUR)	3.84	152	13873	1.05	ng/uL	-0.02
Spiked Amount 2.500			Recovery =	42.00%		
4) Nitrobenzene-d5 (SURR)	4.23	82	18653m	1.02	ng/uL	-0.02
Spiked Amount 2.500			Recovery =	40.80%		
9) 2-Fluorobiphenyl (SURR)	6.56	172	30786	1.05	ng/uL	-0.02
Spiked Amount 2.500			Recovery =	42.00%		
14) 2,4,6-Tribromophenol (SURR)	9.22	330	1080	0.33	ng/uL	0.00
Spiked Amount 3.750			Recovery =	8.80%		
21) Terphenyl-d14 (SURR)	13.94	244	12173	1.08	ng/uL	-0.02
Spiked Amount 2.500			Recovery =	43.20%		
-----						
Target Compounds						
						Qvalue
5) Naphthalene	5.05	128	48197	0.98	ng/uL#	96
6) 2-Methylnaphthalene	5.97	142	28470	0.98	ng/uL	100
7) 1-Methylnaphthalene	6.13	142	29994	0.99	ng/uL	92
10) Acenaphthylene	7.43	152	43650	1.01	ng/uL#	99
11) Acenaphthene	7.75	153	27793	1.02	ng/uL	99
12) Fluorene	8.69	166	27534	1.05	ng/uL	99
15) Pentachlorophenol	10.31	266	1160	0.88	ng/uL#	100
16) Phenanthrene	10.58	178	29480	0.98	ng/uL#	100
17) Anthracene	10.67	178	36670	1.01	ng/uL#	95
18) Fluoranthene	13.07	202	22537	0.89	ng/uL	99
20) Pyrene	13.53	202	23822	1.05	ng/uL	94
22) Benzo(a)anthracene	16.11	228	15464	0.93	ng/uL	99
23) Chrysene	16.19	228	24106	1.15	ng/uL	95
25) Benzo(b)fluoranthene	18.30	252	5634m	0.72	ng/uL	
26) Benzo(k)fluoranthene	18.33	252	14021m	1.11	ng/uL	
27) Benzo(a)pyrene	18.89	252	7430	0.89	ng/uL	91
28) Indeno(1,2,3-cd)pyrene	20.97	276	3794	0.86	ng/uL#	99
29) Dibenzo(a,h)anthracene	20.99	278	2864	0.85	ng/uL#	99
30) Benzo(g,h,i)perylene	21.53	276	3448m	0.98	ng/uL	

-----  
(#) = qualifier out of range (m) = manual integration  
SV213464.D PAH2DY.M Mon Jul 03 10:24:26 2006



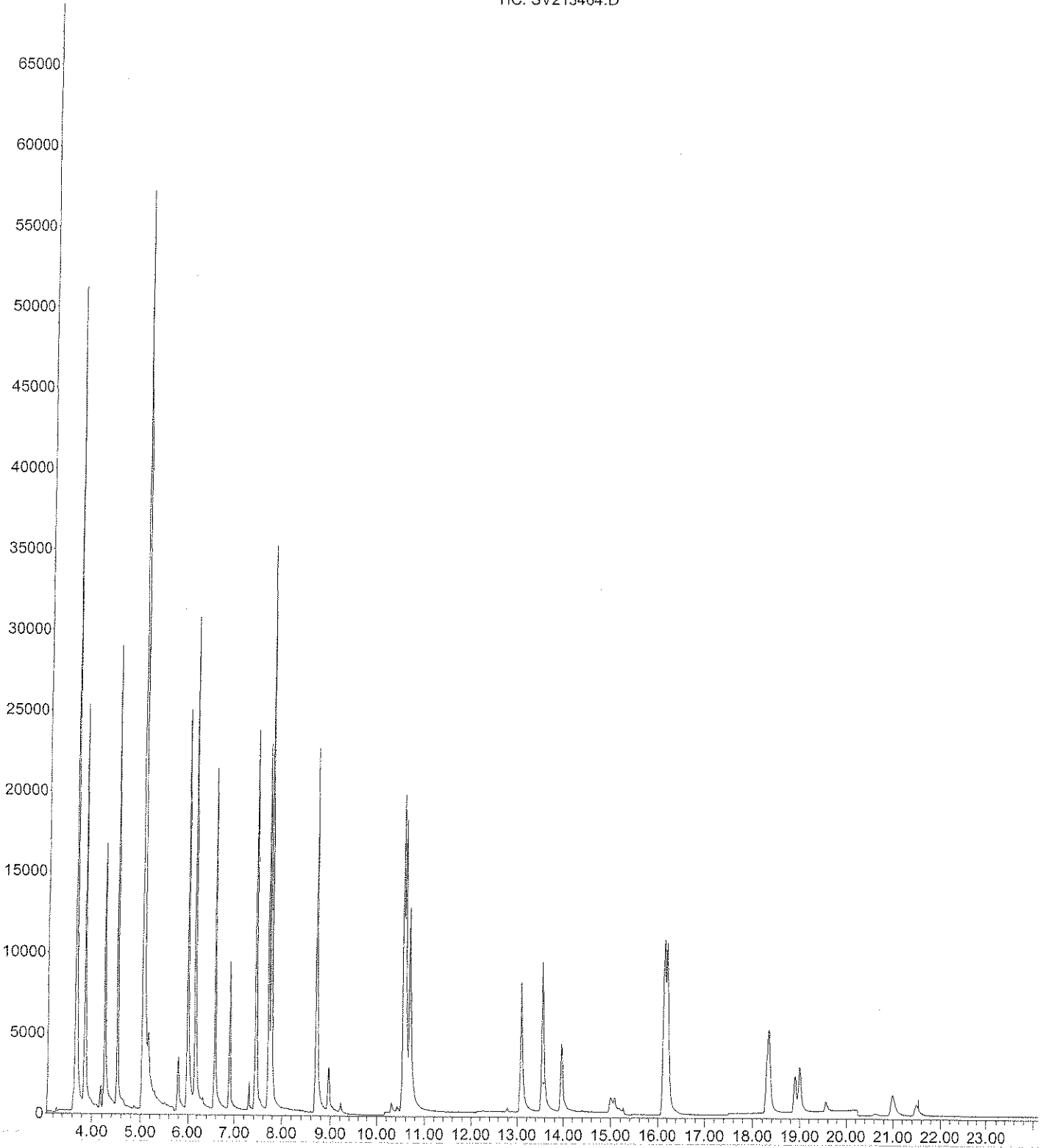
Data File : Q:\SVOA\MS2\_ME\ME0606\ME062906\SV213464.D Vial: 2  
Acq On : 29 Jun 2006 7:54 am Operator: JLS  
Sample : BPF0242-CCV1 Inst : GC/MS 2  
Misc : Multiplr: 1.00

MS Integration Params: rteint.p  
Quant Time: Jun 29 8:34 2006

Quant Results File: PAH2DY.RES

Method : C:\HPCHEM\1\METHODS\PAH2DY.M (RTE Integrator)  
Title : LL PAH ELEMENT ID 0606036  
Last Update : Thu Jun 29 11:19:29 2006  
Response via : Initial Calibration

TIC: SV213464.D



# Semi-Volatile Organics Logbooks

# ESS Organic Preparation Logbook

Project #: 0606341.0606346, Surrogate ID# A0620042, Matrix Spike ID# A0620042  
 Prep Date: 6/23/06, Extraction Time: Start 8:00  
 Batch ID: 0606341.0606346, Extraction Method: 3510  
 Surrogate (ul or (ml)) NA, Matrix Spike (ul or (ml)) NA, Transfer Vol #1 (ml) NA, Transfer Vol #2 (ml) NA  
 Extract Vol (ml) NA, Hex/CH<sub>2</sub>Cl<sub>2</sub> NA, Bath Temp (C) 40, pH 7.2, Discard NA  
 Vol (ml) 1000, Wt (g) 1.000, Cu Cleaned: Y, Florisil: Y, Silica Column/Carbon prep: Y  
 Cu ID# NA, Lot# NA, Glasswool: 0606341.0606346, Method #(s): 8270

**Split Extraction\***   
 \* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH<sub>2</sub>Cl<sub>2</sub>) is transferred as Volume 2.

ESS ID	Vol (ml)	Wt (g)	Surrogate (ul or (ml))	Matrix Spike (ul or (ml))	Extract Vol (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Vol #1 (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Vol #2 (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Date	Bath Temp (C)	pH	Discard	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
0606341-01	1000	1.000	1	NA	1	1	NA	6/23/06	40	7.2		emulsion	EM	EM	JLS
0606341-02	1000	1.000	1	0.05	1	1	NA			7.2		emulsion			
0606341-03	1000	1.000	1	0.05	1	1	NA			7.2		emulsion			
0606341-04	970	970	1	NA	1	1	NA			7.2		emulsion			
0606341-05	970	970	1	NA	1	1	NA			7.2		emulsion			
0606341-06	970	970	1	NA	1	1	NA			7.2		emulsion			
0606341-07	1000	1.000	1	NA	1	1	NA			7.2		emulsion			
0606341-08	1000	1.000	1	NA	1	1	NA			7.2		emulsion			
0606341-09	1000	1.000	1	NA	1	1	NA			7.2		emulsion			
0606341-10	1000	1.000	1	NA	1	1	NA			7.2		emulsion			
0606341-11	1000	1.000	1	NA	1	1	NA			7.2		emulsion			
0606341-12	980	980	1	NA	1	1	NA			7.2		emulsion			
0606341-13	990	990	1	NA	1	1	NA			7.2		emulsion			
0606341-14	1000	1.000	1	NA	1	1	NA			7.2		emulsion			
0606341-15	1000	1.000	1	NA	1	1	NA			7.2		emulsion			
0606341-16	1000	1.000	1	NA	1	1	NA			7.2		emulsion			
0606341-17	1000	1.000	1	NA	1	1	NA			7.2		emulsion			
0606341-18	1000	1.000	1	NA	1	1	NA			7.2		emulsion			
0606341-19	1000	1.000	1	NA	1	1	NA			7.2		emulsion			
0606341-20	1000	1.000	1	NA	1	1	NA			7.2		emulsion			
0606341-21	1000	1.000	1	NA	1	1	NA			7.2		emulsion			
0606341-22	1000	1.000	1	NA	1	1	NA			7.2		emulsion			
0606341-23	1000	1.000	1	NA	1	1	NA			7.2		emulsion			
0606341-24	1000	1.000	1	NA	1	1	NA			7.2		emulsion			
0606341-25	1000	1.000	1	NA	1	1	NA			7.2		emulsion			
0606341-26	1000	1.000	1	NA	1	1	NA			7.2		emulsion			
0606341-27	1000	1.000	1	NA	1	1	NA			7.2		emulsion			
0606341-28	1000	1.000	1	NA	1	1	NA			7.2		emulsion			
0606341-29	1000	1.000	1	NA	1	1	NA			7.2		emulsion			
0606341-30	1000	1.000	1	NA	1	1	NA			7.2		emulsion			

Analysis Performed: PCB  B/N SVOA  SVOA  LL PAH  PEST  TPH/GC  BIS-2  PAH

CH<sub>2</sub>Cl<sub>2</sub> lot # C0475 NaOH ID# W2057106A  
 Hexane lot# NA Na<sub>2</sub>SO<sub>4</sub> ID# W2057106A  
 Acetone lot# NA  
 BATCH ID/Test: NA

Prepared By EM Glasswool: 0606341.0606346 Method #(s): 8270  
 \*\*Check off column if entire sample used and bottle discarded.

# Pesticides Data Package

# Pesticides Sample Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW27  
Date Sampled: 06/22/06 12:00  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 5  
Extraction Method: 3510C

ESS Laboratory Work Order: 0606372  
ESS Laboratory Sample ID: 0606372-03  
Sample Matrix: Surface Water  
Analyst: SEP  
Prepared: 06/23/06

### 8081A Organochlorine Pesticides

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
4,4'-DDD	ND	ug/L	0.05	1	06/26/06
4,4'-DDE	ND	ug/L	0.05	1	06/26/06
4,4'-DDT	ND	ug/L	0.05	1	06/26/06
Aldrin	ND	ug/L	0.05	1	06/26/06
alpha-BHC	ND	ug/L	0.05	1	06/26/06
alpha-Chlordane	ND	ug/L	0.05	1	06/26/06
beta-BHC	ND	ug/L	0.05	1	06/26/06
Chlordane (Total)	ND	ug/L	0.50	1	06/26/06
delta-BHC	ND	ug/L	0.05	1	06/26/06
Dieldrin	ND	ug/L	0.05	1	06/26/06
Endosulfan I	ND	ug/L	0.05	1	06/26/06
Endosulfan II	ND	ug/L	0.05	1	06/26/06
Endosulfan Sulfate	ND	ug/L	0.05	1	06/26/06
Endrin	ND	ug/L	0.05	1	06/26/06
Endrin Aldehyde	ND	ug/L	0.05	1	06/26/06
Endrin Ketone	ND	ug/L	0.05	1	06/26/06
gamma-BHC (Lindane)	ND	ug/L	0.05	1	06/26/06
gamma-Chlordane	ND	ug/L	0.05	1	06/26/06
Heptachlor	ND	ug/L	0.05	1	06/26/06
Heptachlor Epoxide	ND	ug/L	0.05	1	06/26/06
Hexachlorobenzene	ND	ug/L	0.05	1	06/26/06
Methoxychlor	ND	ug/L	0.05	1	06/26/06
Toxaphene	ND	ug/L	2.50	1	06/26/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	119 %		30-150
Surrogate: Decachlorobiphenyl [2C]	116 %		30-150
Surrogate: Tetrachloro-m-xylene	87 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	79 %		30-150

# Pesticides Quality Control

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606372

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 3005A/6000/7000 Total Metals

##### Batch BF62302 - 3005A

Thallium	0.0191	0.0020	mg/L	0.0200	ND	96	75-125			
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##### Batch BF62303 - 245.1/7470A

##### Blank

Mercury	ND	0.0005	mg/L							
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##### LCS

Mercury	0.0060	0.0005	mg/L	0.00600		100	80-120			
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##### LCS Dup

Mercury	0.0061	0.0005	mg/L	0.00600		102	80-120	2	20	
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#### 8081A Organochlorine Pesticides

##### Batch BF62722 - 3510C

##### Blank

1,4'-DDD	ND	0.05	ug/L							
1,4'-DDE	ND	0.05	ug/L							
1,4'-DDT	ND	0.05	ug/L							
ldrin	ND	0.05	ug/L							
lpha-BHC	ND	0.05	ug/L							
lpha-Chlordane	ND	0.05	ug/L							
eta-BHC	ND	0.05	ug/L							
hlordane (Total)	ND	0.50	ug/L							
elta-BHC	ND	0.05	ug/L							
eldrin	ND	0.05	ug/L							
indosulfan I	ND	0.05	ug/L							
indosulfan II	ND	0.05	ug/L							
indosulfan Sulfate	ND	0.05	ug/L							
ndrin	ND	0.05	ug/L							
ndrin Aldehyde	ND	0.05	ug/L							
ndrin Ketone	ND	0.05	ug/L							
amma-BHC (Lindane)	ND	0.05	ug/L							
amma-Chlordane	ND	0.05	ug/L							
eptachlor	ND	0.05	ug/L							
eptachlor Epoxide	ND	0.05	ug/L							
exachlorobenzene	ND	0.05	ug/L							
ethoxychlor	ND	0.05	ug/L							
oxaphene	ND	2.50	ug/L							

urrogate: Decachlorobiphenyl	0.287		ug/L	0.250		115	30-150			
urrogate: Decachlorobiphenyl [2C]	0.270		ug/L	0.250		108	30-150			
urrogate: Tetrachloro-m-xylene	0.182		ug/L	0.250		73	30-150			
urrogate: Tetrachloro-m-xylene [2C]	0.175		ug/L	0.250		70	30-150			

##### CS

4'-DDD	0.31	0.05	ug/L	0.250		124	40-140			
4'-DDE	0.25	0.05	ug/L	0.250		100	40-140			
4'-DDT	0.27	0.05	ug/L	0.250		108	40-140			
drin	0.28	0.05	ug/L	0.250		112	40-140			
pha-BHC	0.22	0.05	ug/L	0.250		88	40-140			



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606372

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8081A Organochlorine Pesticides

##### Batch BF62722 - 3510C

alpha-Chlordane	0.25	0.05	ug/L	0.250		100	40-140			
beta-BHC	0.29	0.05	ug/L	0.250		116	40-140			
delta-BHC	0.17	0.05	ug/L	0.250		68	40-140			
Dieldrin	0.28	0.05	ug/L	0.250		112	40-140			
Endosulfan I	0.26	0.05	ug/L	0.250		104	40-140			
Endosulfan II	0.24	0.05	ug/L	0.250		96	40-140			
Endosulfan Sulfate	0.25	0.05	ug/L	0.250		100	40-140			
Endrin	0.29	0.05	ug/L	0.250		116	40-140			
Endrin Aldehyde	0.27	0.05	ug/L	0.250		108	40-140			
Endrin Ketone	0.27	0.05	ug/L	0.250		108	40-140			
gamma-BHC (Lindane)	0.25	0.05	ug/L	0.250		100	40-140			
gamma-Chlordane	0.31	0.05	ug/L	0.250		124	40-140			
heptachlor	0.25	0.05	ug/L	0.250		100	40-140			
heptachlor Epoxide	0.27	0.05	ug/L	0.250		108	40-140			
hexachlorobenzene	0.13	0.05	ug/L	0.250		52	40-140			
Methoxychlor	0.30	0.05	ug/L	0.250		120	40-140			
Surrogate: Decachlorobiphenyl	0.300		ug/L	0.250		120	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.296		ug/L	0.250		118	30-150			
Surrogate: Tetrachloro-m-xylene	0.209		ug/L	0.250		84	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.205		ug/L	0.250		82	30-150			

##### .CS Dup

1,4'-DDD	0.28	0.05	ug/L	0.250		112	40-140	10	30	
1,4'-DDE	0.26	0.05	ug/L	0.250		104	40-140	4	30	
1,4'-DDT	0.26	0.05	ug/L	0.250		104	40-140	4	30	
ldrin	0.27	0.05	ug/L	0.250		108	40-140	4	30	
lpha-BHC	0.22	0.05	ug/L	0.250		88	40-140	0	30	
lpha-Chlordane	0.27	0.05	ug/L	0.250		108	40-140	8	30	
eta-BHC	0.30	0.05	ug/L	0.250		120	40-140	3	30	
elta-BHC	0.18	0.05	ug/L	0.250		72	40-140	6	30	
ieldrin	0.28	0.05	ug/L	0.250		112	40-140	0	30	
ndosulfan I	0.28	0.05	ug/L	0.250		112	40-140	7	30	
ndosulfan II	0.23	0.05	ug/L	0.250		92	40-140	4	30	
ndosulfan Sulfate	0.24	0.05	ug/L	0.250		96	40-140	4	30	
ndrin	0.29	0.05	ug/L	0.250		116	40-140	0	30	
ndrin Aldehyde	0.26	0.05	ug/L	0.250		104	40-140	4	30	
ndrin Ketone	0.27	0.05	ug/L	0.250		108	40-140	0	30	
amma-BHC (Lindane)	0.25	0.05	ug/L	0.250		100	40-140	0	30	
amma-Chlordane	0.33	0.05	ug/L	0.250		132	40-140	6	30	
eptachlor	0.26	0.05	ug/L	0.250		104	40-140	4	30	
eptachlor Epoxide	0.27	0.05	ug/L	0.250		108	40-140	0	30	
exachlorobenzene	0.13	0.05	ug/L	0.250		52	40-140	0	30	
ethoxychlor	0.29	0.05	ug/L	0.250		116	40-140	3	30	
urrogate: Decachlorobiphenyl	0.295		ug/L	0.250		118	30-150			
urrogate: Decachlorobiphenyl [2C]	0.290		ug/L	0.250		116	30-150			
urrogate: Tetrachloro-m-xylene	0.220		ug/L	0.250		88	30-150			

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606372

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8081A Organochlorine Pesticides

##### Batch BF62722 - 3510C

Surrogate: Tetrachloro-m-xylene [2C]	0.196		ug/L	0.250		78	30-150			
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#### 8082 Polychlorinated Biphenyls (PCB)

##### Batch BF62333 - 3510C

##### Blank

Aroclor 1016	ND	0.100	ug/L
Aroclor 1016 (1)	ND	0.100	ug/L
Aroclor 1016 (1) [2C]	ND	0.100	ug/L
Aroclor 1016 (2)	ND	0.100	ug/L
Aroclor 1016 (2) [2C]	ND	0.100	ug/L
Aroclor 1016 (3)	ND	0.100	ug/L
Aroclor 1016 (3) [2C]	ND	0.100	ug/L
Aroclor 1016 (4)	ND	0.100	ug/L
Aroclor 1016 (4) [2C]	ND	0.100	ug/L
Aroclor 1016 (5)	ND	0.100	ug/L
Aroclor 1016 (5) [2C]	ND	0.100	ug/L
Aroclor 1221	ND	0.100	ug/L
Aroclor 1221 (1)	ND	0.100	ug/L
Aroclor 1221 (1) [2C]	ND	0.100	ug/L
Aroclor 1221 (2)	ND	0.100	ug/L
Aroclor 1221 (2) [2C]	ND	0.100	ug/L
Aroclor 1221 (3)	ND	0.100	ug/L
Aroclor 1221 (3) [2C]	ND	0.100	ug/L
Aroclor 1221 (4)	ND	0.100	ug/L
Aroclor 1221 (4) [2C]	ND	0.100	ug/L
Aroclor 1221 (5)	ND	0.100	ug/L
Aroclor 1221 (5) [2C]	ND	0.100	ug/L
Aroclor 1232	ND	0.100	ug/L
Aroclor 1232 (1)	ND	0.100	ug/L
Aroclor 1232 (1) [2C]	ND	0.100	ug/L
Aroclor 1232 (2)	ND	0.100	ug/L
Aroclor 1232 (2) [2C]	ND	0.100	ug/L
Aroclor 1232 (3)	ND	0.100	ug/L
Aroclor 1232 (3) [2C]	ND	0.100	ug/L
Aroclor 1232 (4)	ND	0.100	ug/L
Aroclor 1232 (4) [2C]	ND	0.100	ug/L
Aroclor 1232 (5)	ND	0.100	ug/L
Aroclor 1232 (5) [2C]	ND	0.100	ug/L
Aroclor 1242	ND	0.100	ug/L
Aroclor 1242 (1)	ND	0.100	ug/L
Aroclor 1242 (1) [2C]	ND	0.100	ug/L
Aroclor 1242 (2)	ND	0.100	ug/L
Aroclor 1242 (2) [2C]	ND	0.100	ug/L
Aroclor 1242 (3)	ND	0.100	ug/L
Aroclor 1242 (3) [2C]	ND	0.100	ug/L
Aroclor 1242 (4)	ND	0.100	ug/L

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# Pesticides Calibration Data

ESS LABORATORY  
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/21/06	6E062006-1	1	Prime	80812G		SR
	2	2	Pen	↓	high baseline	
	3	3	Pest Spob	↓		
	6E06206A	1	Prime	80812H		
	2	2	Pen	✓		03:32 PM
	3	3	Pest Spob	✓	6F21086 CALI	
	4	4	10ppb	✓	087 2	
	5	5	20ppb	✓	089 3	
	6	6	50ppb	✓	089 4	
	7	7	60ppb	✓	090 5	
	8	8	80ppb	✓	091 6 Thru	
	9	9	100ppb	✓	092 7	
	10	10	SS	↓	093	
	11	11	Pest SS	✓	6F21 094 SCVI	
	12	12	BFG 1910 - BIKI	✓		
	13	13	BSI	✓		
	14	14	BSDI	✓		
	15	15	0606253-01	✓		
	16	16	01MS	✓		
	17	17	02 ATMS	✓		
	18	18	03	✓		
	19	19	04	✓		
	20	20	05	✓		
	21	21	06	✓		
	22	22	Hexane			↓
6/21/06	6E06206A	23	Pest 20 ppb	80812H	6F21085	01:21 AM SR

CONTROL NUMBER 60.0012-0602A

PAGE \_\_\_\_\_

Signal #1 : Q:\SVOA\GC3\_GE\DATA\GE06216A\002F0101.D Vial: 2  
 Signal #2 : Q:\SVOA\GC3\_GE\DATA\GE06216A\002F0101.D\002R0101.D  
 Acq On : 21 Jun 06 03:32 PM Operator: [GC]2R0101.D\DATA.MS  
 Sample : PEM Inst : GC3  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 22 7:28 19106

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Title :  
 Last Update : Thu Jun 22 06:59:52 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 3 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xylen	7.65	8.77	2882628	1075954	47.270	49.039
			Recovery	=	94.54%	98.08%
23) S Decachlorobiphenyl	18.14	20.79	1742144	864520	38.565m	36.560
			Recovery	=	77.13%	73.12%
Target Compounds						
2) M Hexachlorobenzene	0.00	0.00	0	0	N.D.d	N.D.d
3) M alpha-BHC	0.00	0.00	0	0	N.D.d	N.D.d
4) M gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.d	N.D.d
5) M beta-BHC	0.00	0.00	0	0	N.D.d	N.D.d
6) M delta-BHC	0.00	0.00	0	0	N.D.d	N.D.d
7) M Heptachlor	0.00	0.00	0	0	N.D.d	N.D.d
8) M Aldrin	0.00	0.00	0	0	N.D.d	N.D.d
9) M Heptachlor Epoxide	0.00	0.00	0	0	N.D.d	N.D.d
10) M gamma-Chlordane	0.00	0.00	0	0	N.D.d	N.D.d
11) M alpha-Chlordane	0.00	0.00	0	0	N.D.d	N.D.d
12) M 4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13) M Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
14) M Dieldrin	0.00	0.00	0	0	N.D.	N.D.
15) M Endrin	14.06	15.37	4811339	1683303	117.714m	108.165m
16) M 4,4'-DDD	14.17	15.49	114493	46650	3.305m	5.002m#
17) M Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18) M 4,4'-DDT	14.61	16.00	4127673	1612906	106.239	113.549
19) M Endrin Aldehyde	15.16	0.00	10512	0	1.231m	N.D.d#
20) M Methoxychlor	0.00	0.00	0	0	N.D.d	N.D.d
21) M Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22) M Endrin Ketone	16.36	17.85	15292	7242	1.562m	2.756m#

$$\Sigma \frac{25804}{4837143} = 0.533\% \quad \text{DDT} \quad \frac{114493}{4242146} = 2.69\%$$

$$\Sigma \frac{7242}{1690545} = 0.43\% \quad \text{DDT} \quad \frac{46650}{1659556} = 2.80\%$$

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Title :  
 Last Update : Thu Jun 22 06:59:52 2006  
 Response via : Initial Calibration

## Calibration Files

10 =004F0101.D 20 =005F0101.D 5 =003F0101.D  
 60 =007F0101.D = 100 =009F0101.D

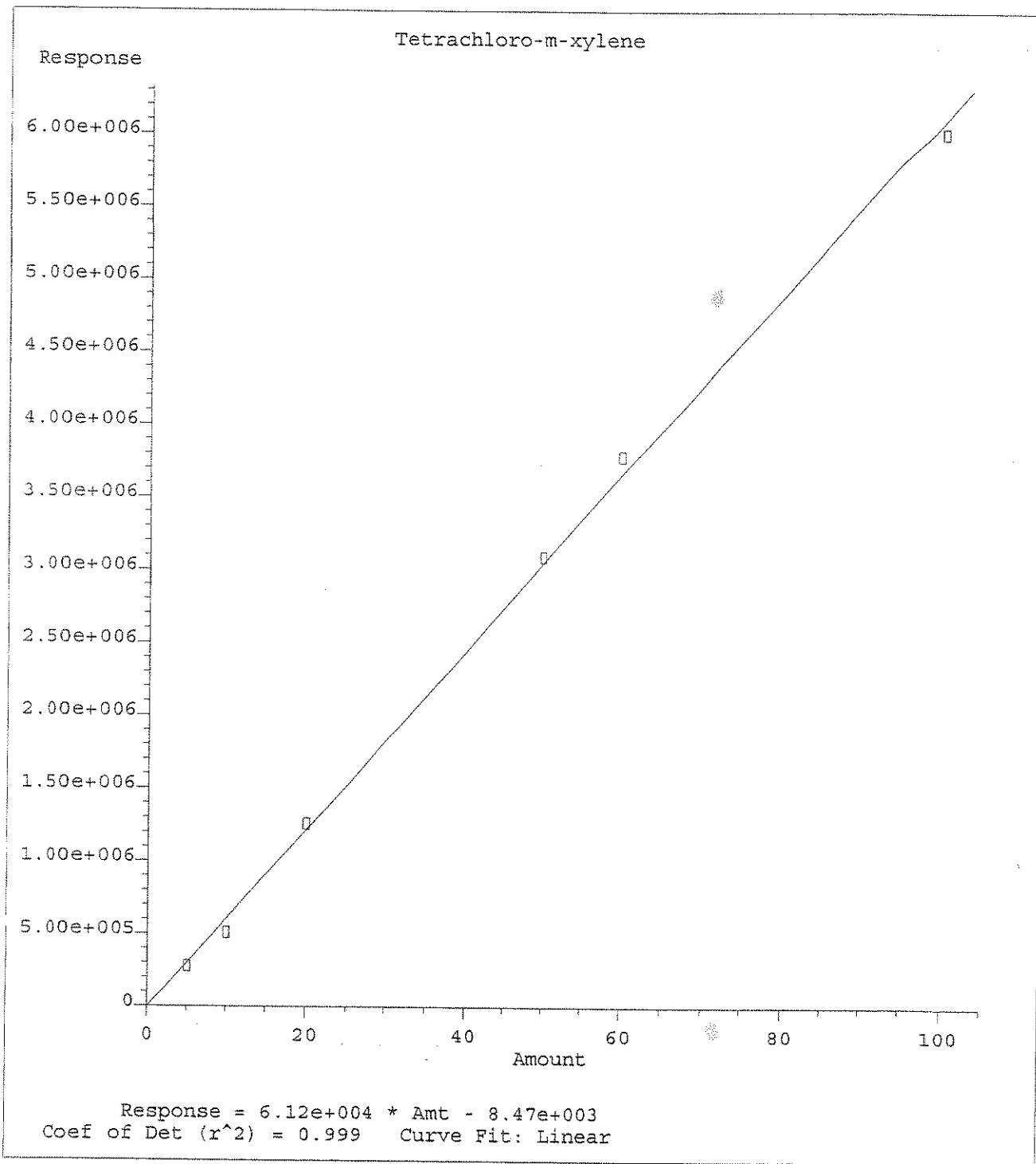
Compound		10	20	5	60	100	Avg	%RSD		
1) S	Tetrachloro-m-xylen	51.0	62.9	55.4	63.0	60.2	61.8	59.0	E3	8.21
2) M	Hexachlorobenzene	93.2	105.8	95.6	102.3	91.7	99.0	97.9	E3	5.58
3) M	alpha-BHC	57.2	68.9	58.7	77.2	73.4	74.2	68.3	E3	12.36
4) M	gamma-BHC (Lindane)	54.7	64.8	60.0	72.5	67.8	68.5	64.7	E3	9.96
5) M	beta-BHC	28.9	35.3	31.1	36.9	34.4	36.0	33.8	E3	9.14
6) M	delta-BHC	49.9	61.8	53.4	71.6	67.4	68.4	62.1	E3	14.11
7) M	Heptachlor	50.1	59.9	52.1	65.8	61.5	62.6	58.7	E3	10.59
8) M	Aldrin	53.1	60.6	53.4	63.7	59.6	61.9	58.7	E3	7.61
9) M	Heptachlor Epoxide	49.6	56.1	51.8	59.0	55.1	59.2	55.1	E3	7.02
10) M	gamma-Chlordane	46.3	59.8	50.0	59.9	56.4	59.5	55.3	E3	10.50
11) M	alpha-Chlordane	49.3	57.8	52.1	56.5	53.1	55.7	54.1	E3	5.88
12) M	4,4'-DDE	46.9	55.0	56.5	56.5	53.3	55.0	53.9	E3	6.74
13) M	Endosulfan I	46.9	55.2	54.6	57.6	56.4	55.8	54.4	E3	7.03
14) M	Dieldrin	45.5	51.9	48.0	54.9	52.0	53.3	50.9	E3	6.88
15) M	Endrin	34.6	39.6	36.1	42.8	40.0	41.3	39.1	E3	8.04
16) M	4,4'-DDD	38.0	44.3	34.8	47.8	45.1	45.8	42.6	E3	11.86
17) M	Endosulfan II	36.2	43.2	41.9	47.7	44.6	45.7	43.2	E3	9.20
18) M	4,4'-DDT	27.7	34.4	31.1	40.4	38.0	39.2	35.1	E3	14.16
19) M	Endrin Aldehyde	30.1	34.6	30.9	37.5	36.0	36.2	34.2	E3	8.93
20) M	Methoxychlor	14.3	17.2	18.1	22.0	20.6	20.5	18.8	E3	15.03
21) M	Endosulfan Sulfate	41.2	39.9	30.7	43.7	41.4	42.3	39.8	E3	11.72
22) M	Endrin Ketone	38.1	47.1	34.8	51.5	48.7	49.3	44.9	E3	15.13
23) S	Decachlorobiphenyl	37.2	47.5	39.9	47.4	43.5	46.8	43.7	E3	9.95

## Signal #2 Calibration Files

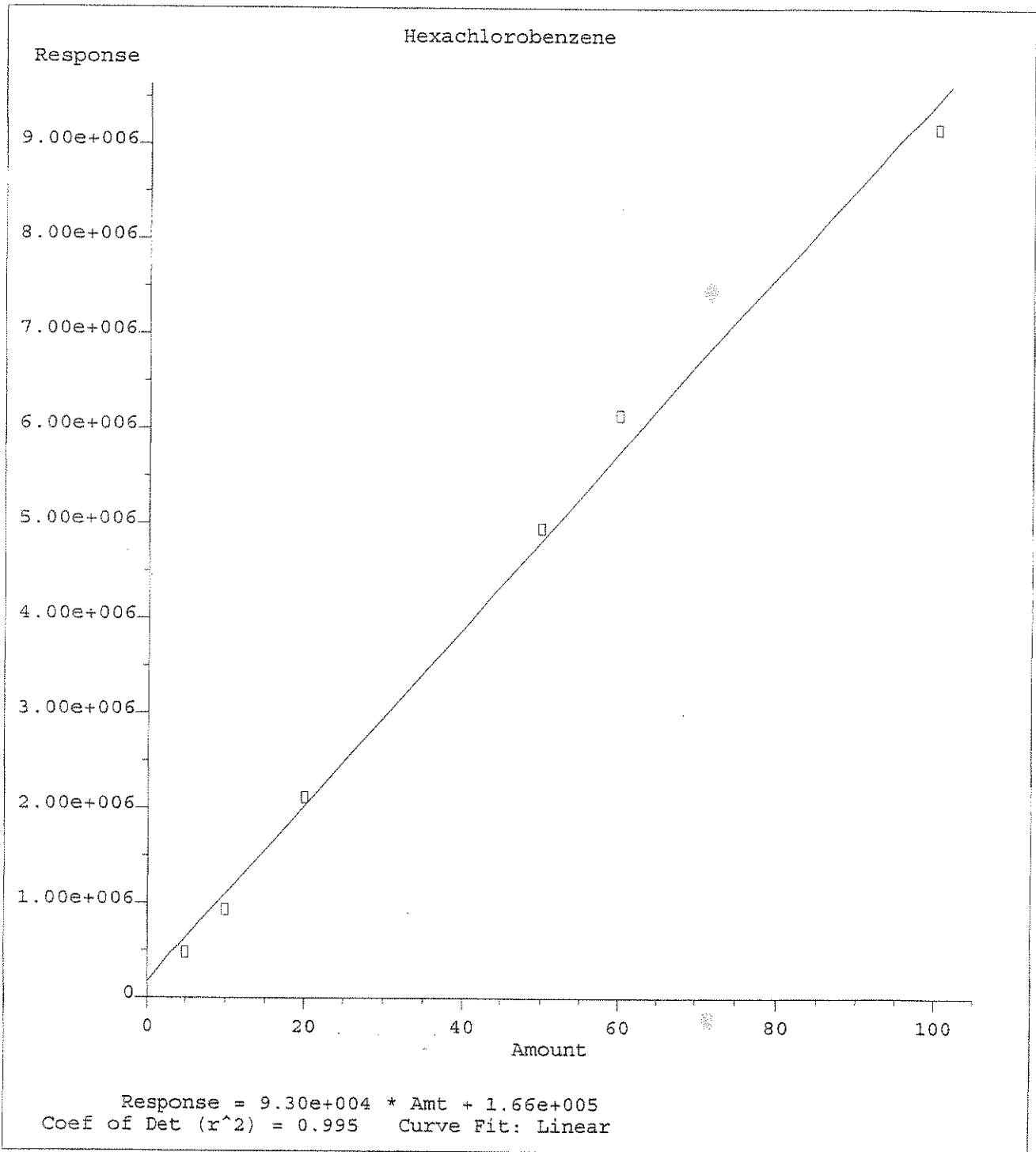
10 =004R0101.D 20 =005R0101.D 5 =003R0101.D  
 60 =007R0101.D = 100 =009R0101.D

Compound		10	20	5	60	100	Avg	%RSD		
1) S	Tetrachloro-m-xylen	17.8	21.1	19.3	23.1	21.6	22.3	20.9	E3	9.56
2) M	Hexachlorobenzene	34.9	38.5	35.4	39.7	35.9	38.8	37.2	E3	5.42
3) M	alpha-BHC	15.6	20.8	15.7	28.3	28.2	26.3	22.5	E3	26.50
4) M	gamma-BHC (Lindane)	16.2	20.9	16.8	26.9	26.3	25.2	22.1	E3	21.61
5) M	beta-BHC	11.6	12.6	11.5	14.3	13.5	13.6	12.9	E3	8.86
6) M	delta-BHC	15.0	19.6	15.9	26.3	25.8	24.4	21.2	E3	23.75
7) M	Heptachlor	16.0	19.9	17.8	24.4	23.7	22.8	20.8	E3	16.45
8) M	Aldrin	16.6	20.0	17.7	24.0	23.3	22.8	20.8	E3	14.94
9) M	Heptachlor Epoxide	17.7	20.4	21.6	23.2	22.1	22.2	21.2	E3	9.24
10) M	gamma-Chlordane	18.0	21.0	18.9	23.5	22.3	22.6	21.1	E3	10.34
11) M	alpha-Chlordane	18.4	21.6	19.7	23.8	22.4	22.9	21.5	E3	9.52
12) M	4,4'-DDE	16.5	19.8	17.5	23.0	21.9	21.8	20.1	E3	13.04
13) M	Endosulfan I	15.7	18.7	15.7	21.7	20.7	20.6	18.9	E3	13.86
14) M	Dieldrin	15.0	18.0	15.4	21.6	21.0	20.4	18.6	E3	15.40
15) M	Endrin	10.6	12.7	12.5	15.7	15.5	14.7	13.6	E3	14.66
16) M	4,4'-DDD	12.4	15.0	13.2	18.0	17.6	16.9	15.5	E3	15.15
17) M	Endosulfan II	16.2	19.1	19.8	20.8	19.5	20.5	19.3	E3	8.61
18) M	4,4'-DDT	6.8	9.5	6.6	14.0	14.2	12.6	10.6	E3	32.81
19) M	Endrin Aldehyde	13.9	16.1	14.7	17.7	16.4	16.9	15.9	E3	8.82
20) M	Methoxychlor	5.5	6.9	5.1	9.6	9.2	8.8	7.5	E3	25.85
21) M	Endosulfan Sulfate	14.1	16.6	14.8	18.7	17.9	17.8	16.7	E3	10.99
22) M	Endrin Ketone	15.1	20.0	16.7	23.5	23.3	23.5	20.3	E3	18.31
23) S	Decachlorobiphenyl	21.7	24.7	24.2	24.7	22.7	23.9	23.6	E3	5.09

(#) = Out of Range ### Number of calibration levels exceeded format ###  
 8081EH.M Thu Jun 22 07:32:42 2006

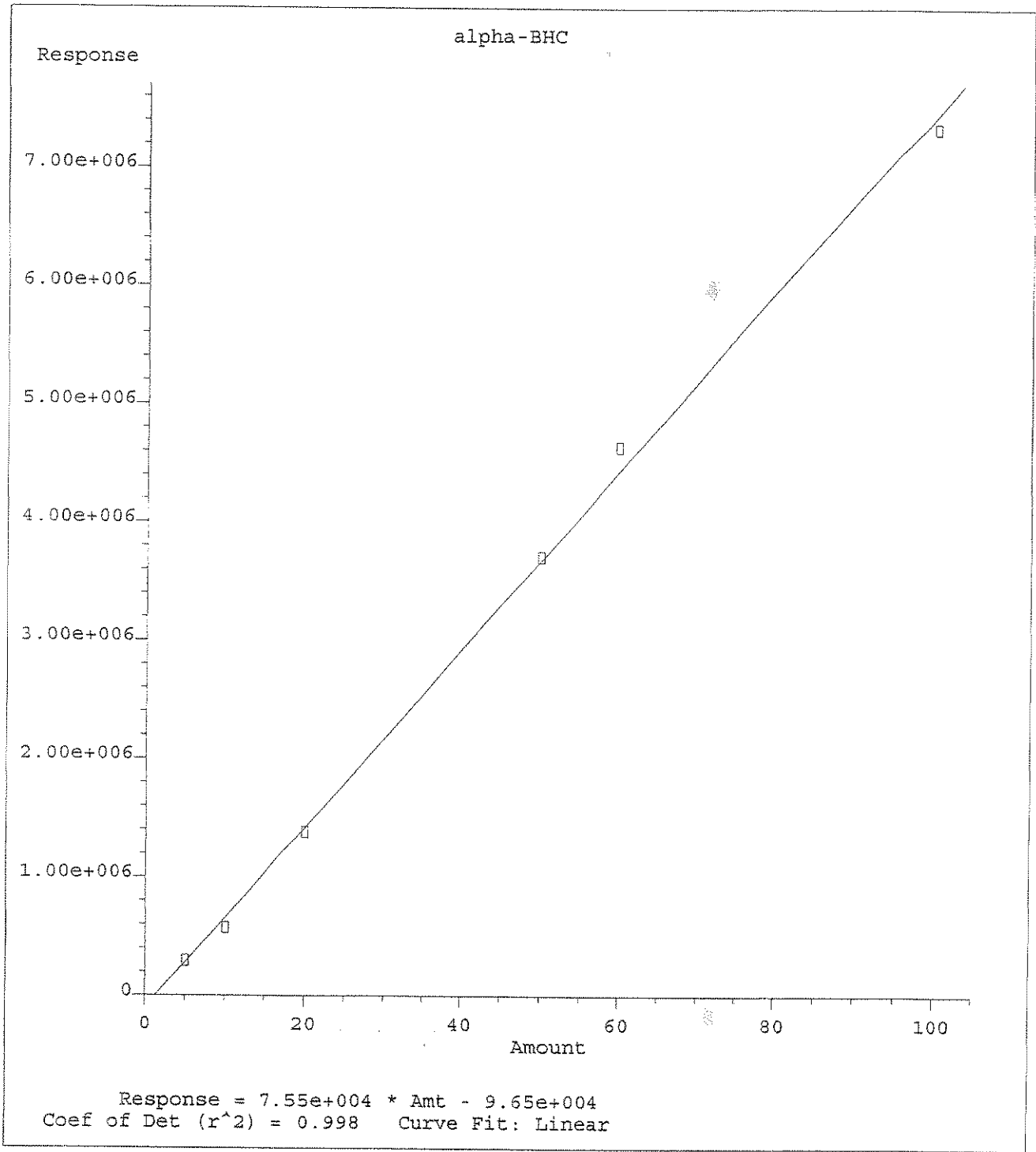


Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

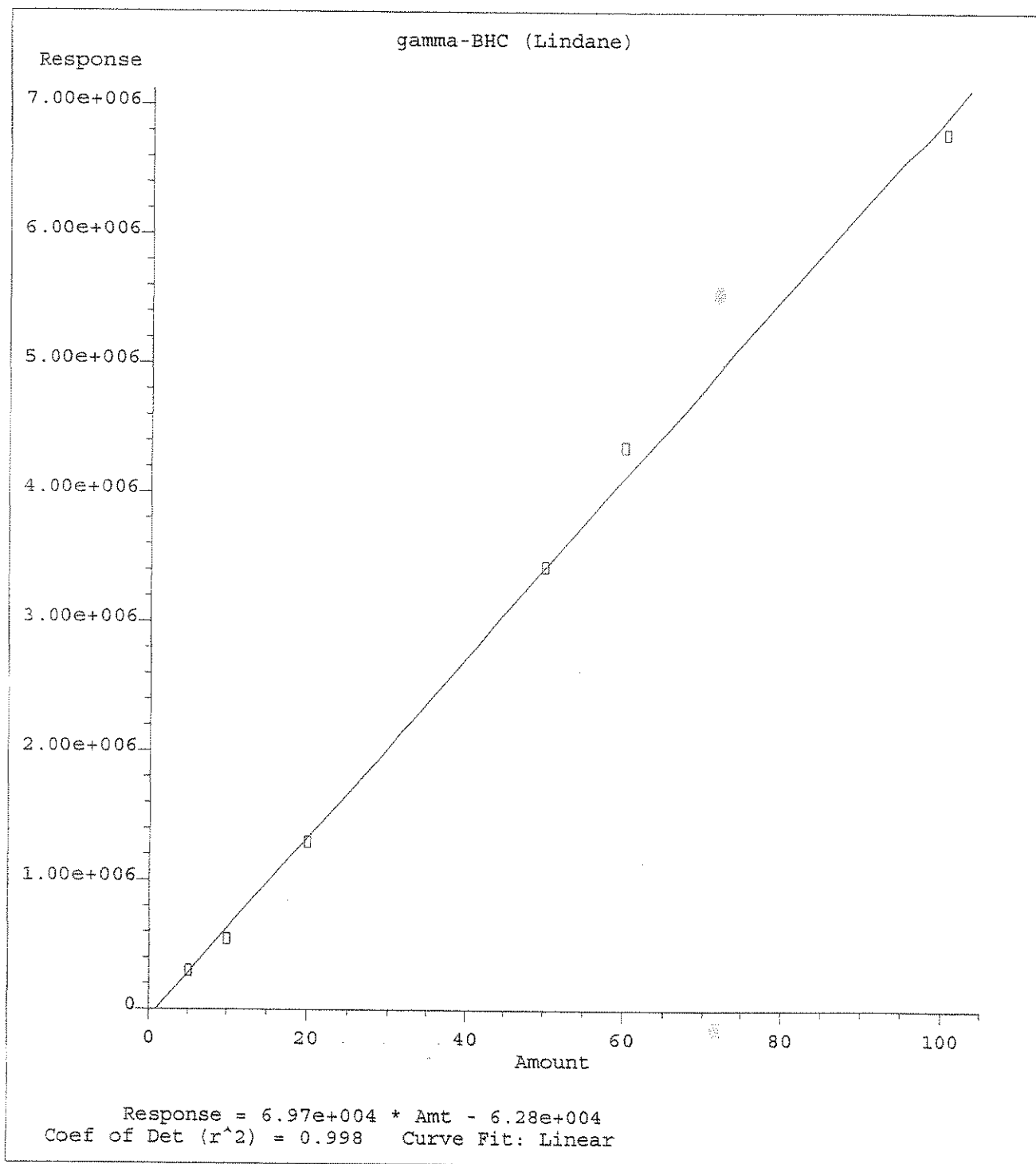


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Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

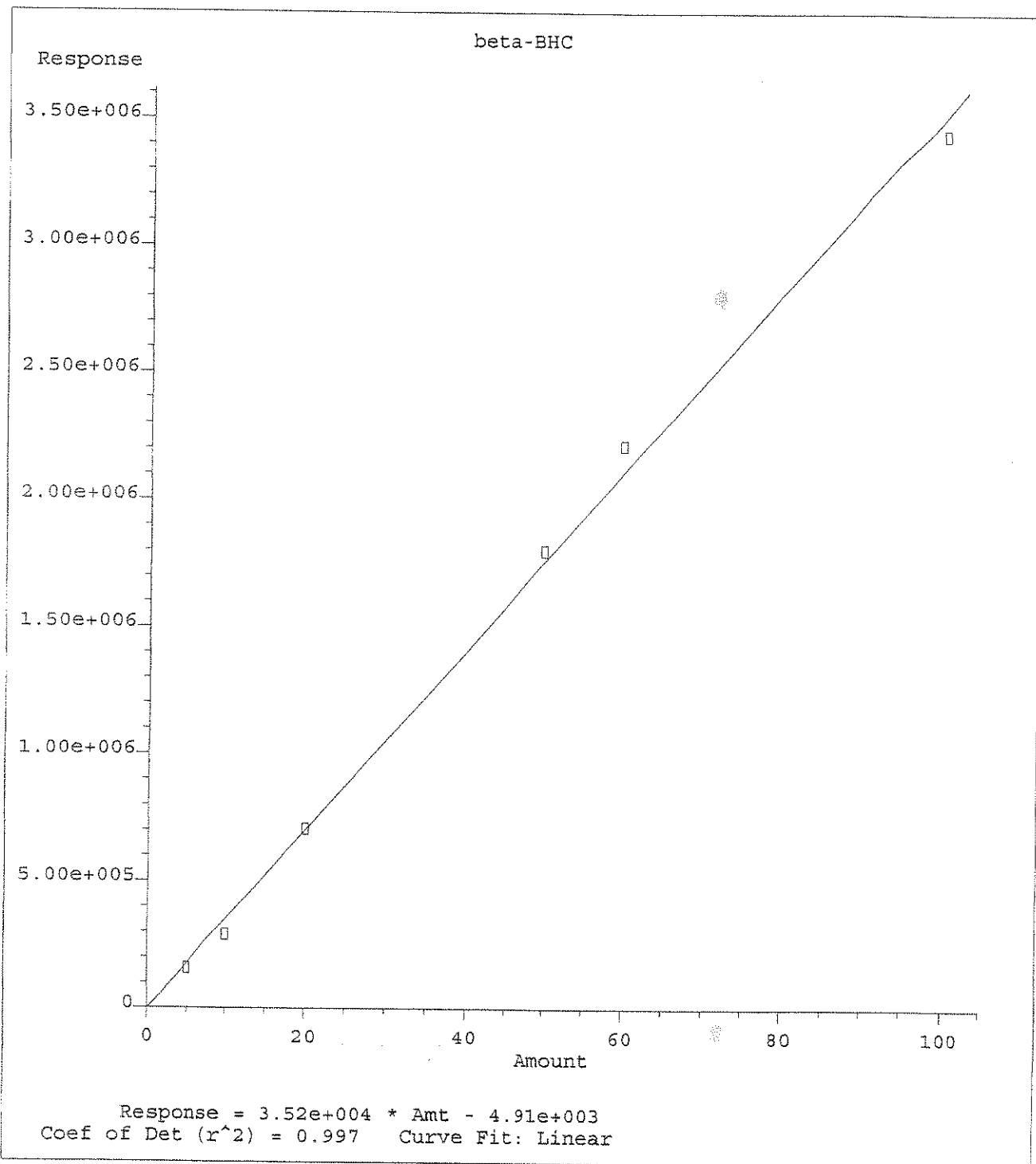




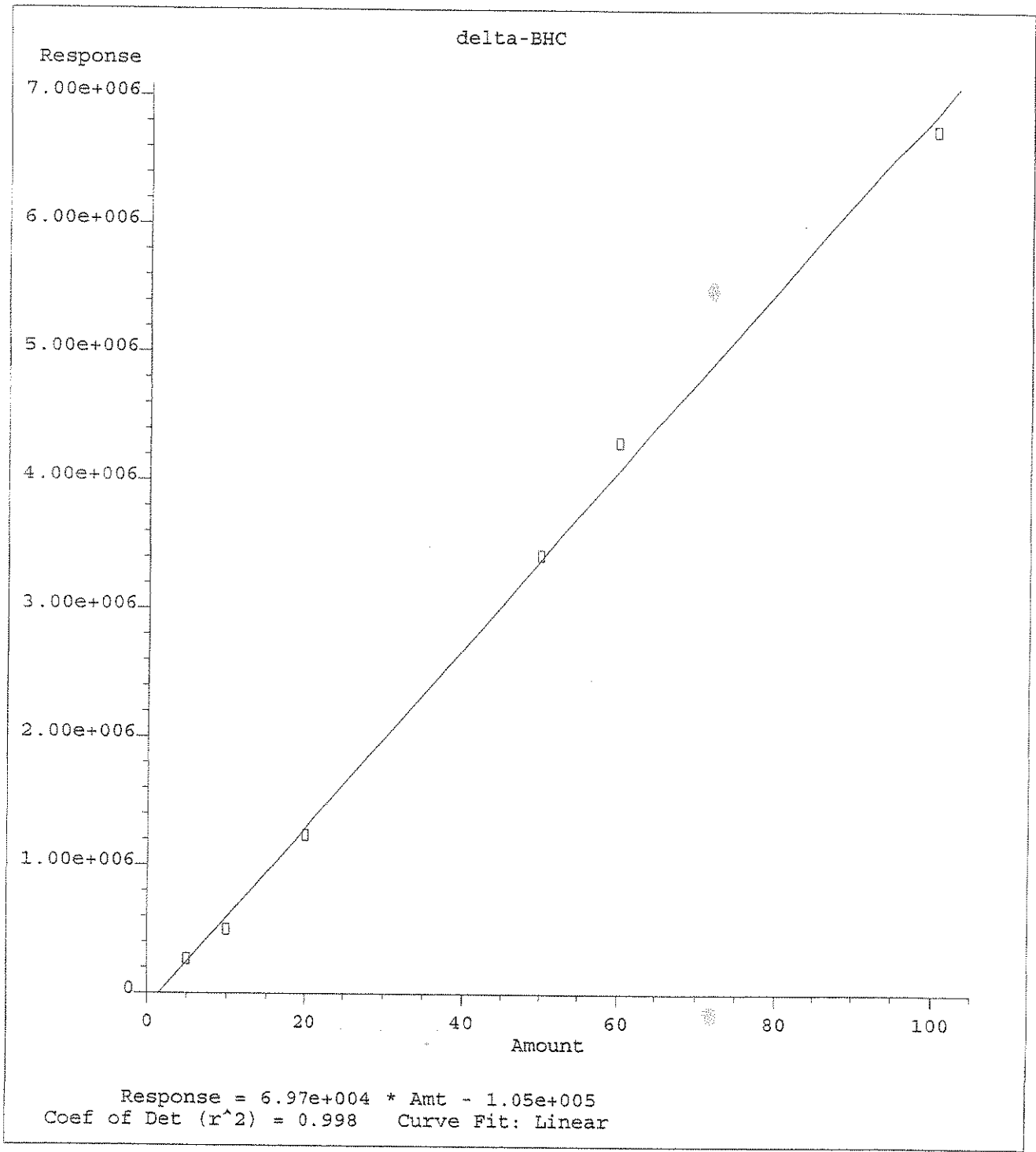
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 Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



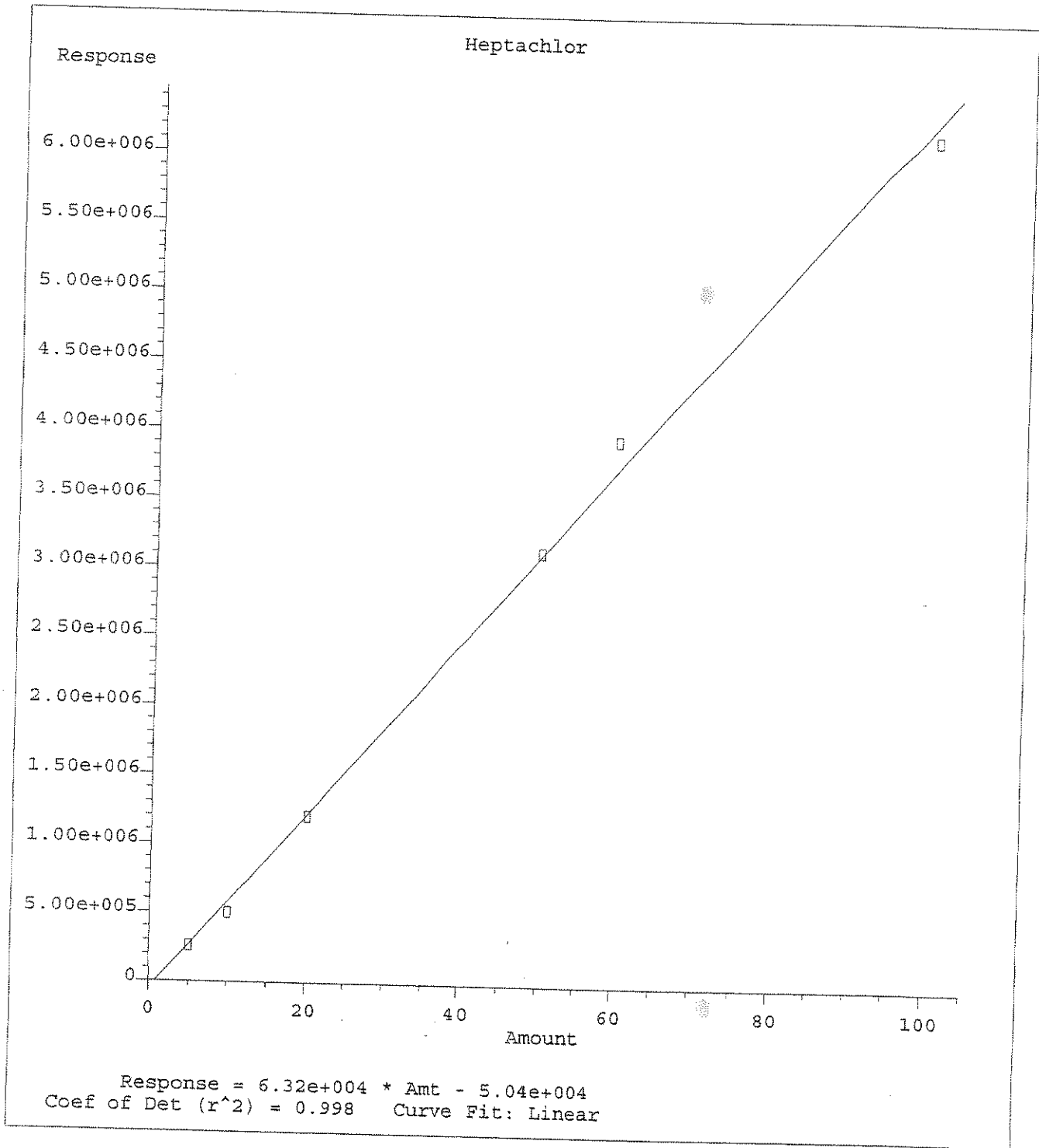
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Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



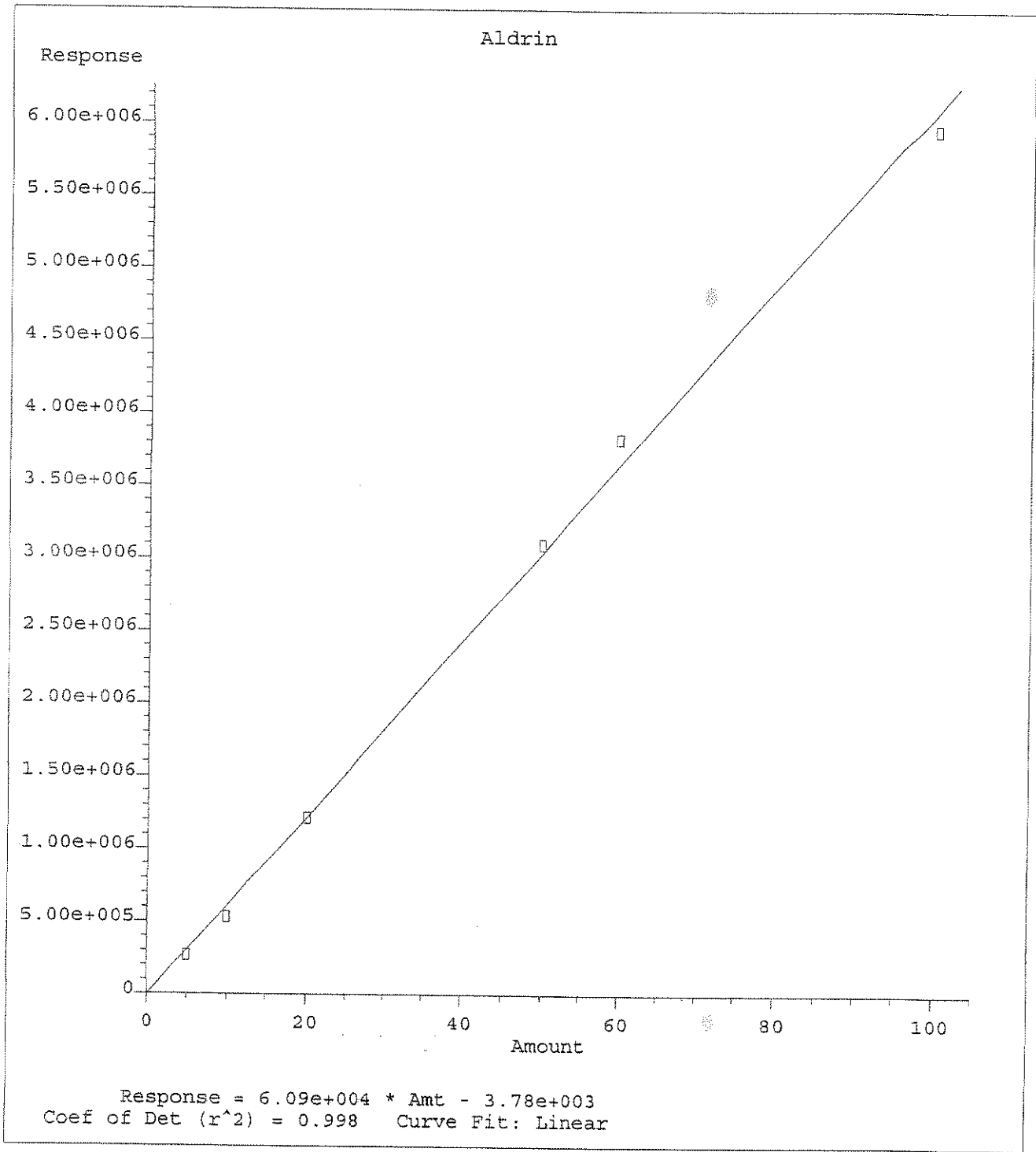
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 Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



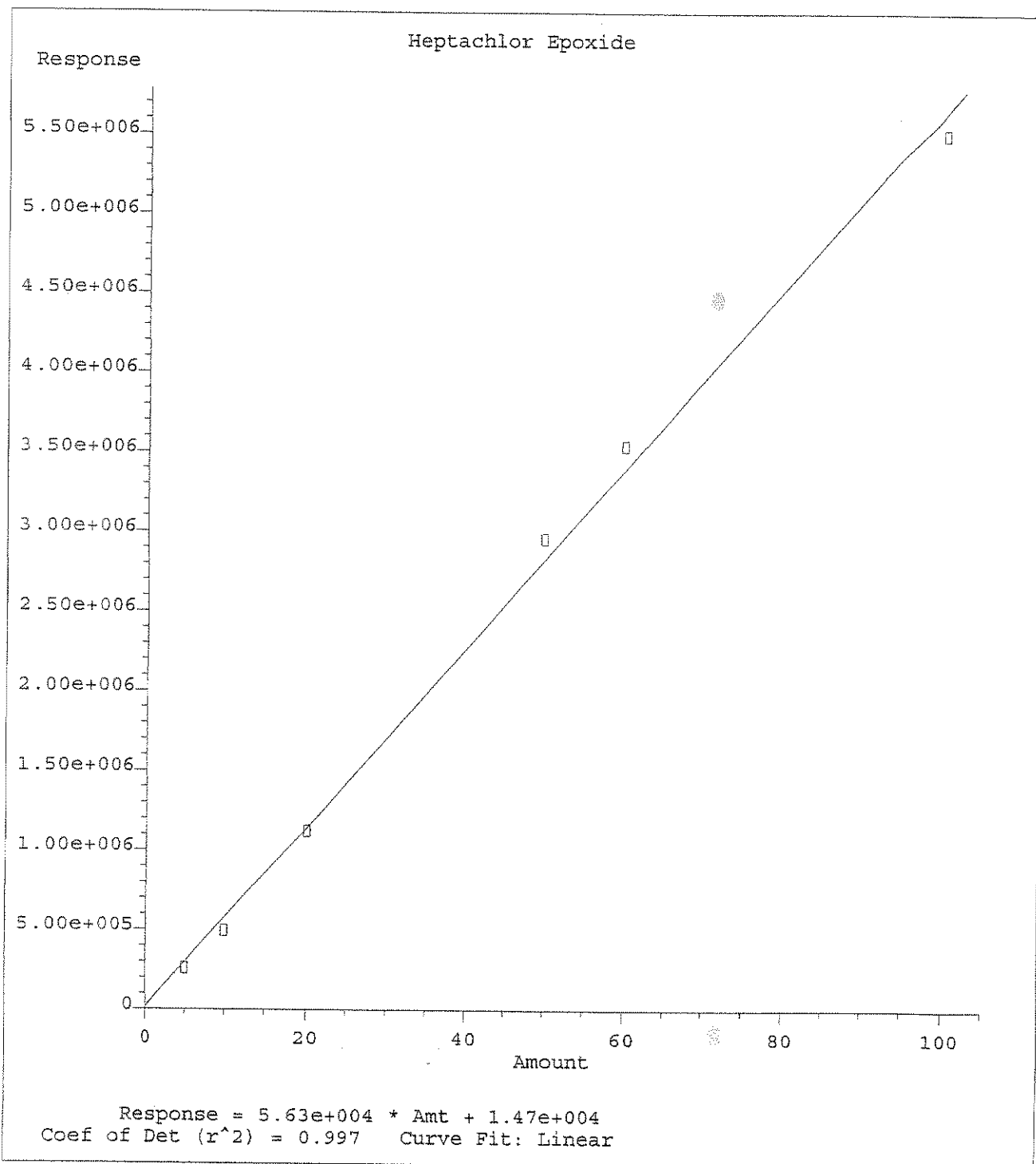
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Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



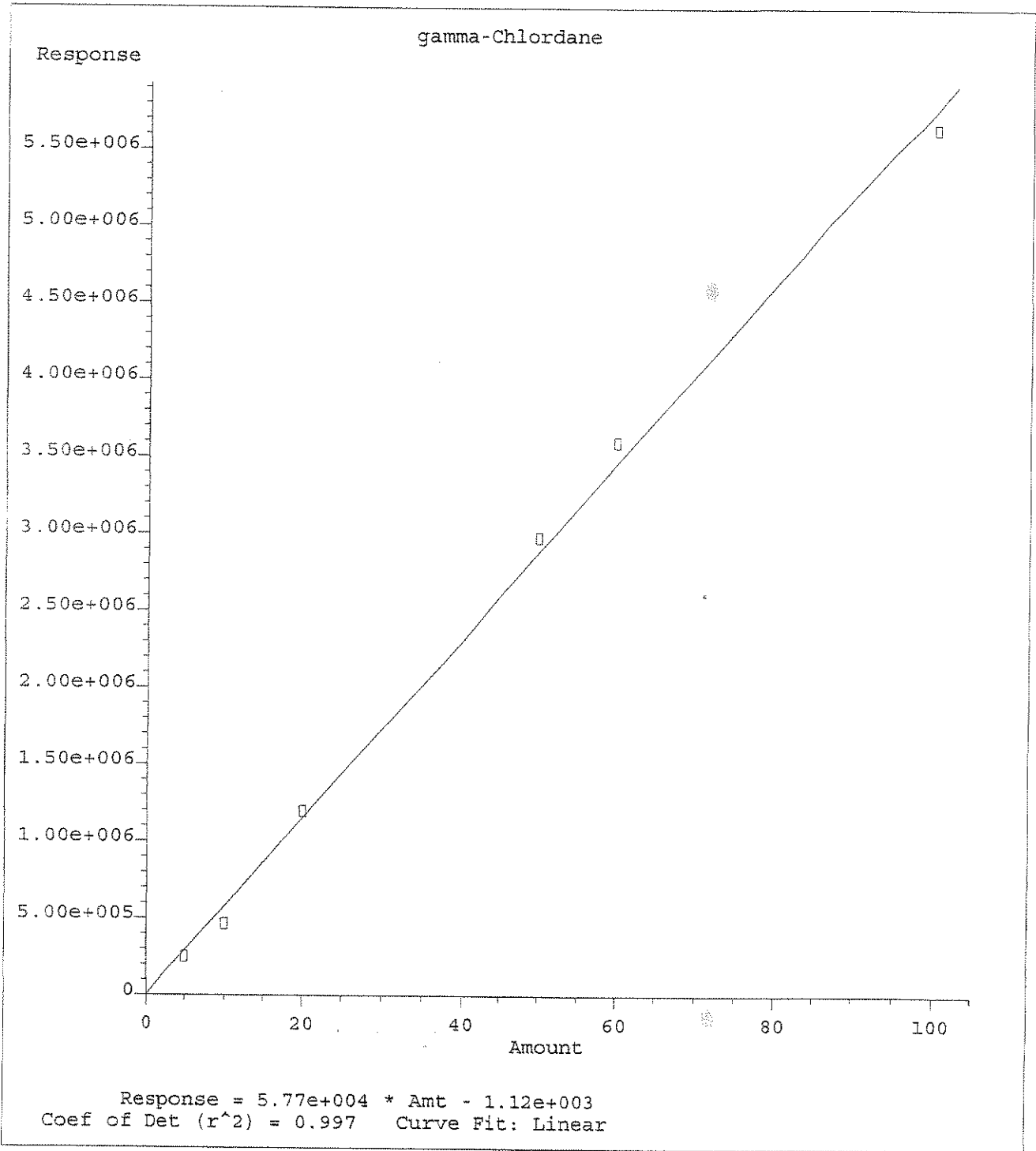
Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3 GE\METHODS\8081EH.M  
 Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

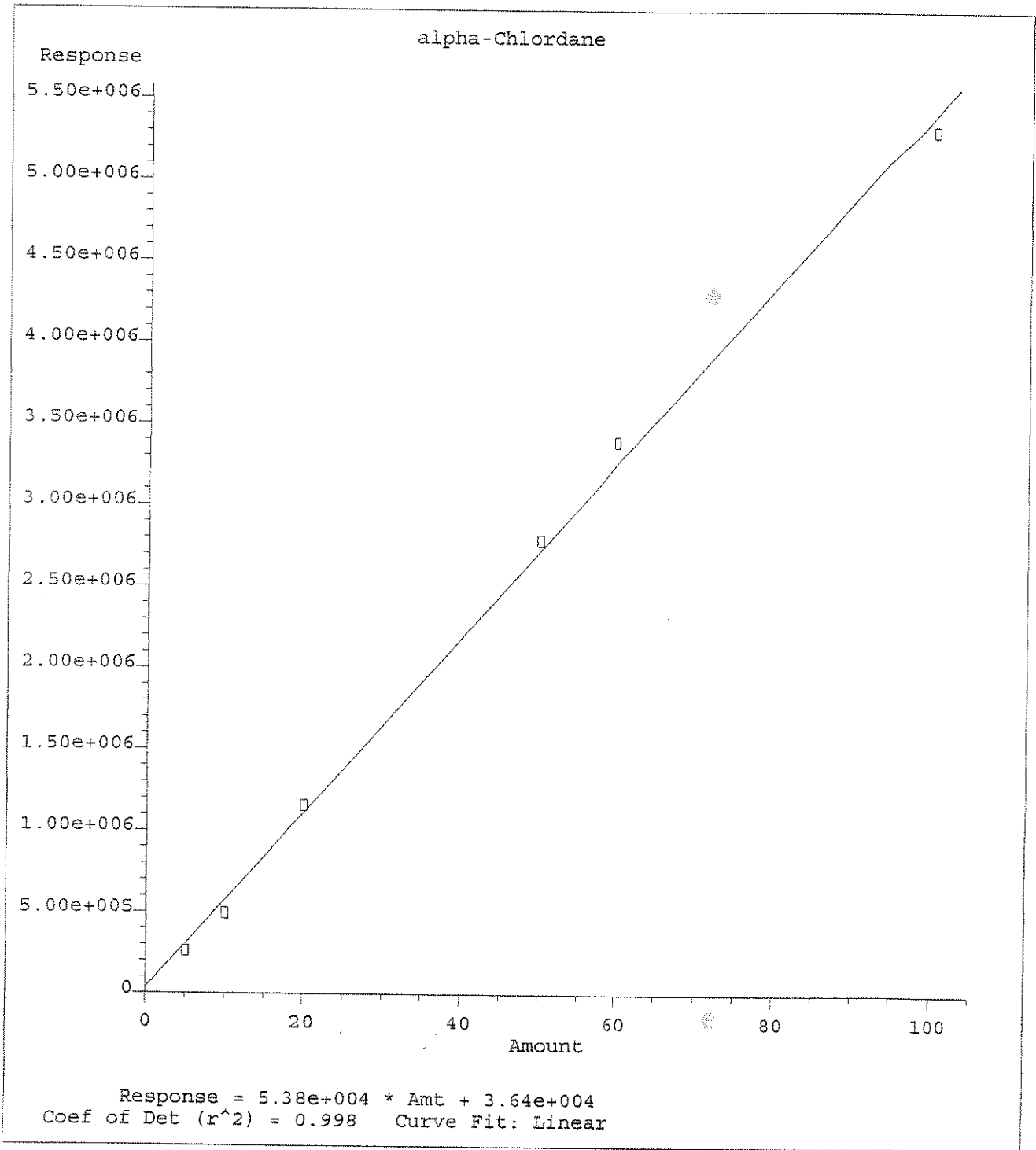


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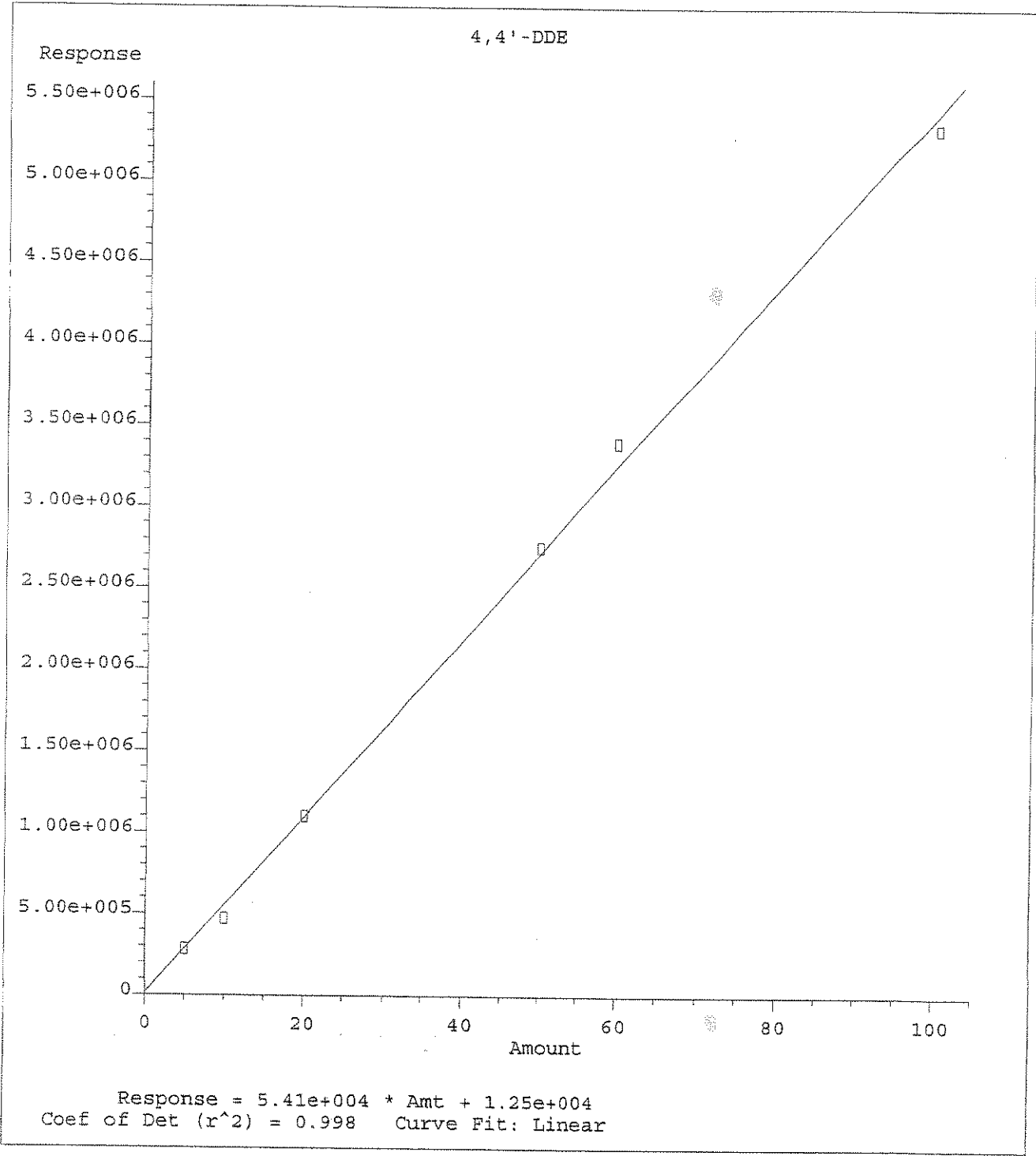


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Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

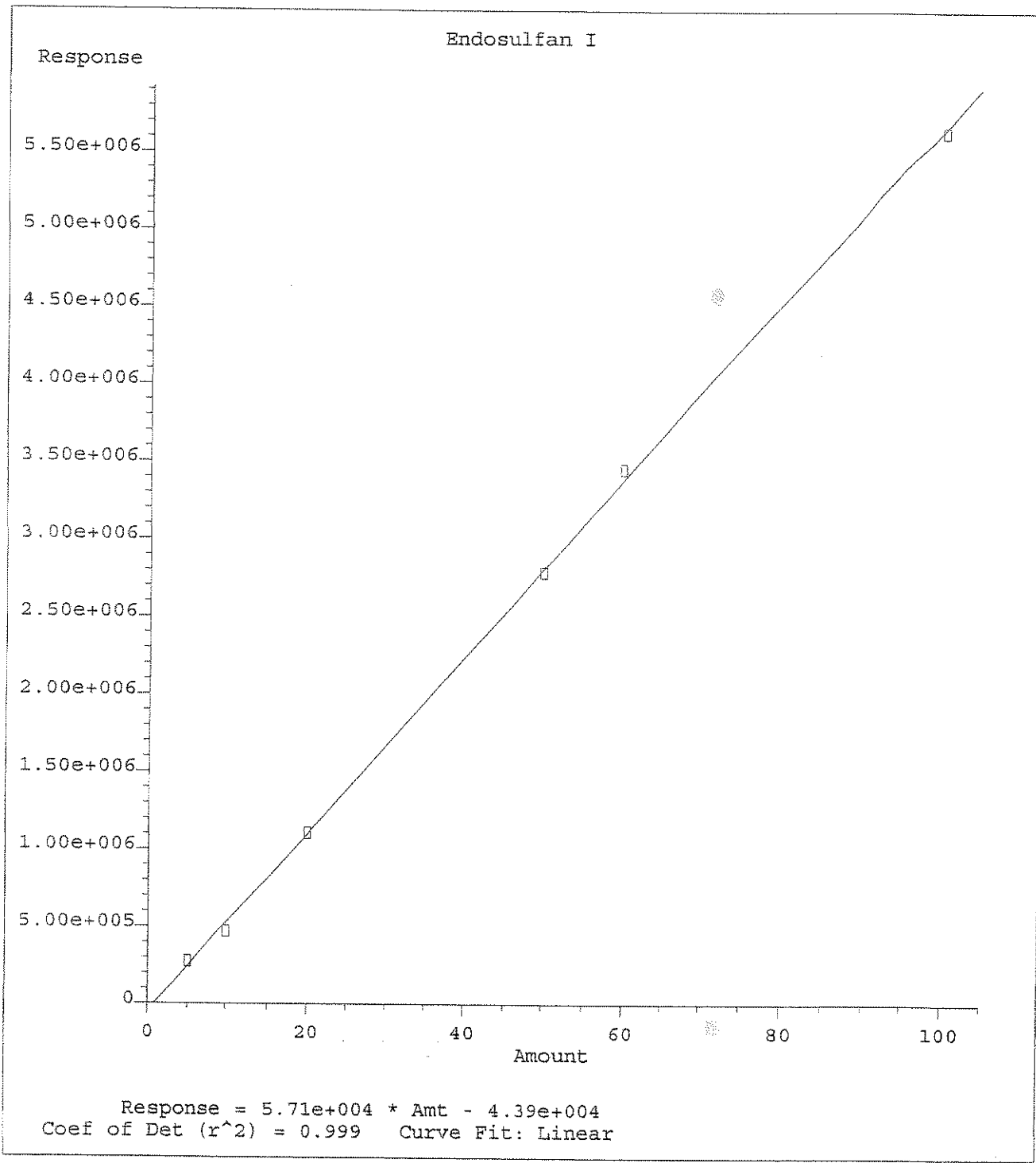




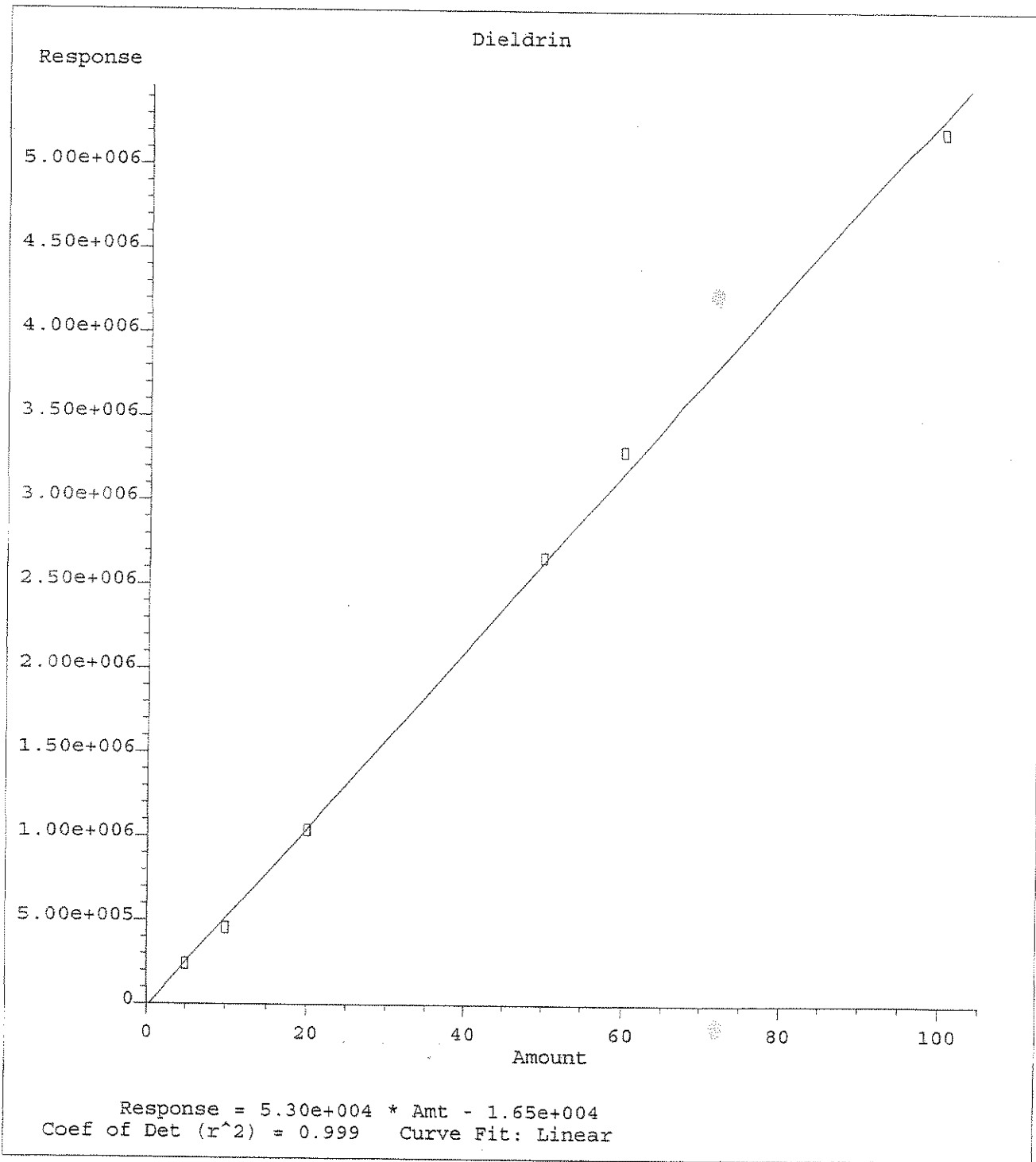
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Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



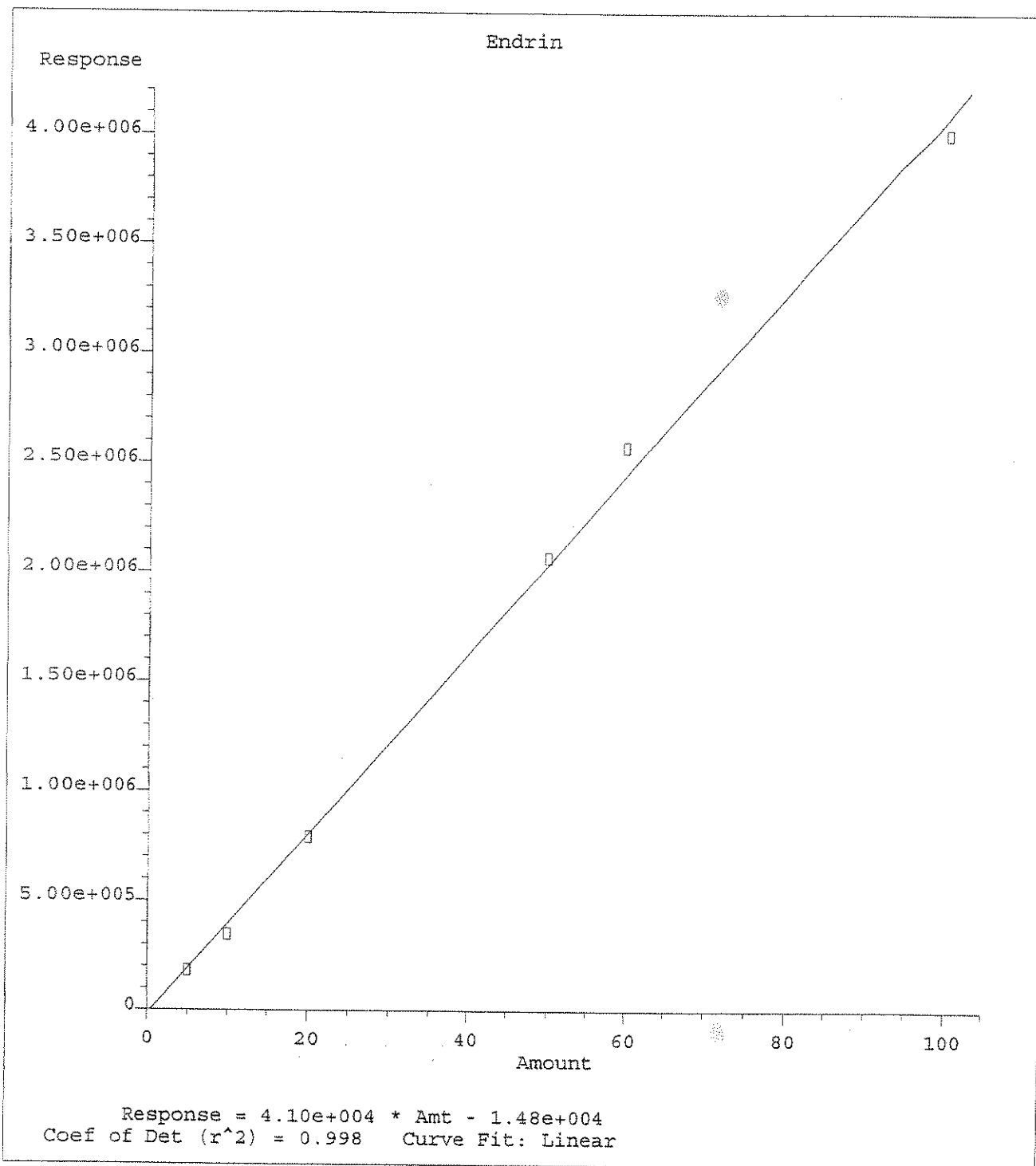
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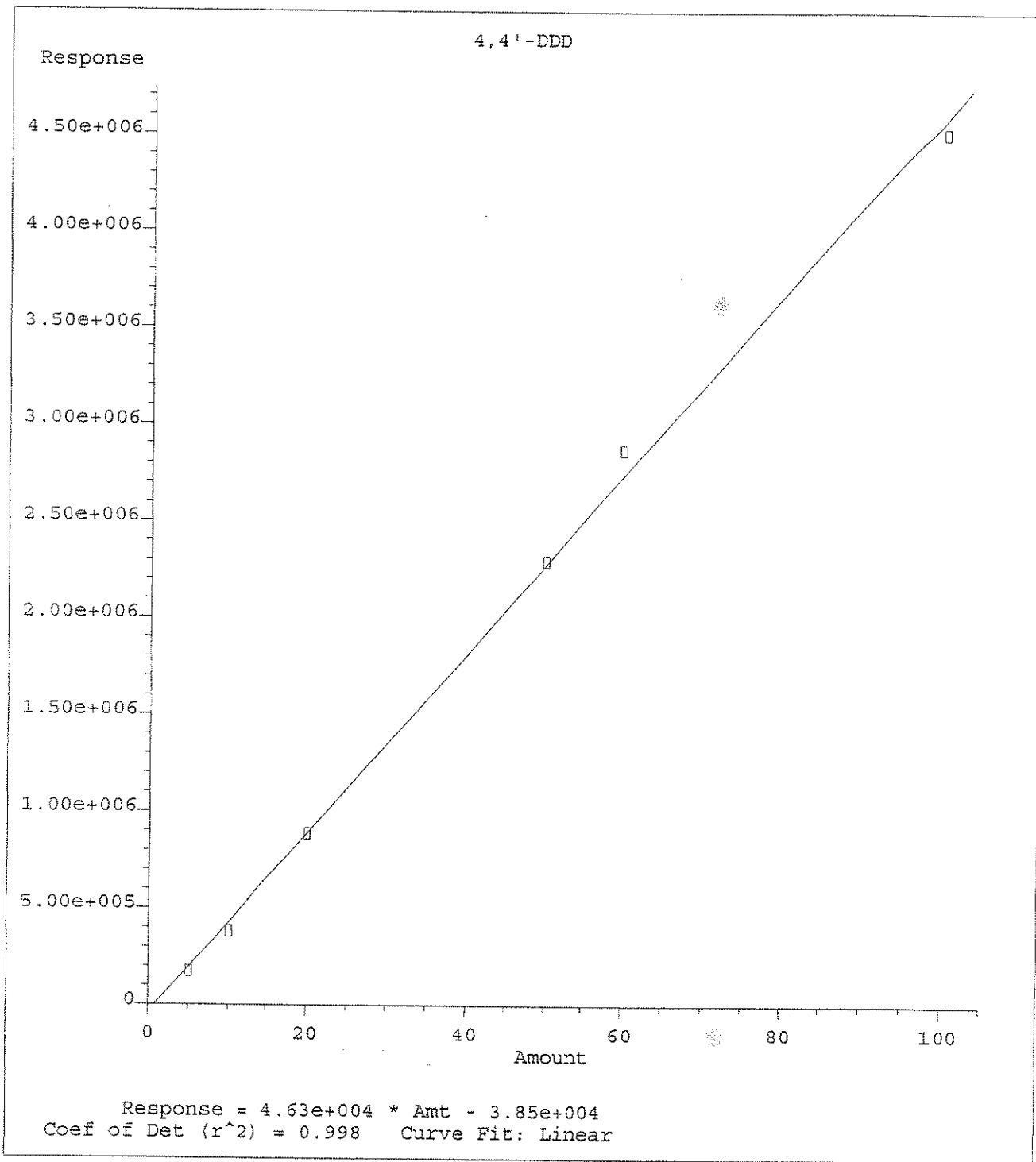
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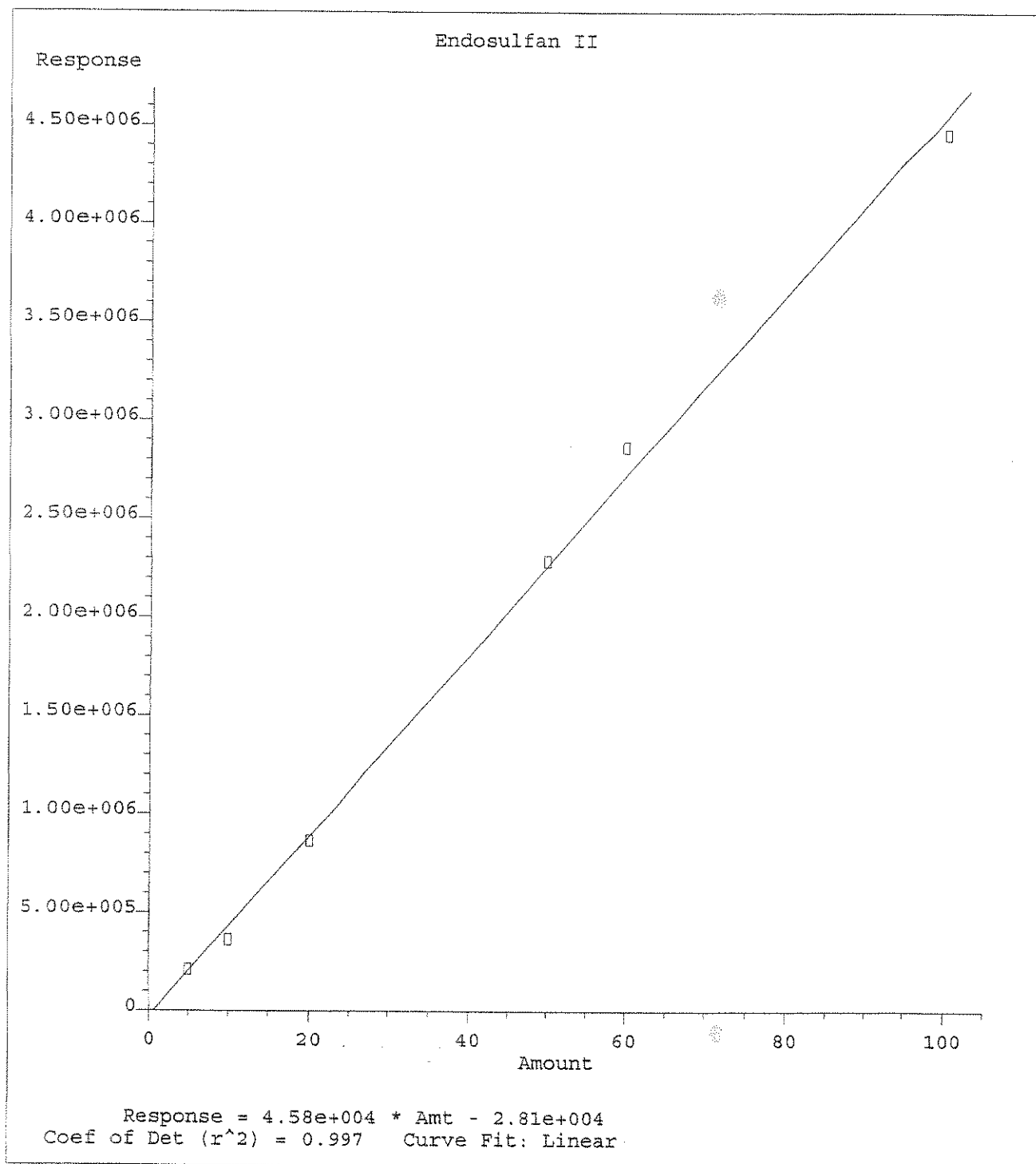
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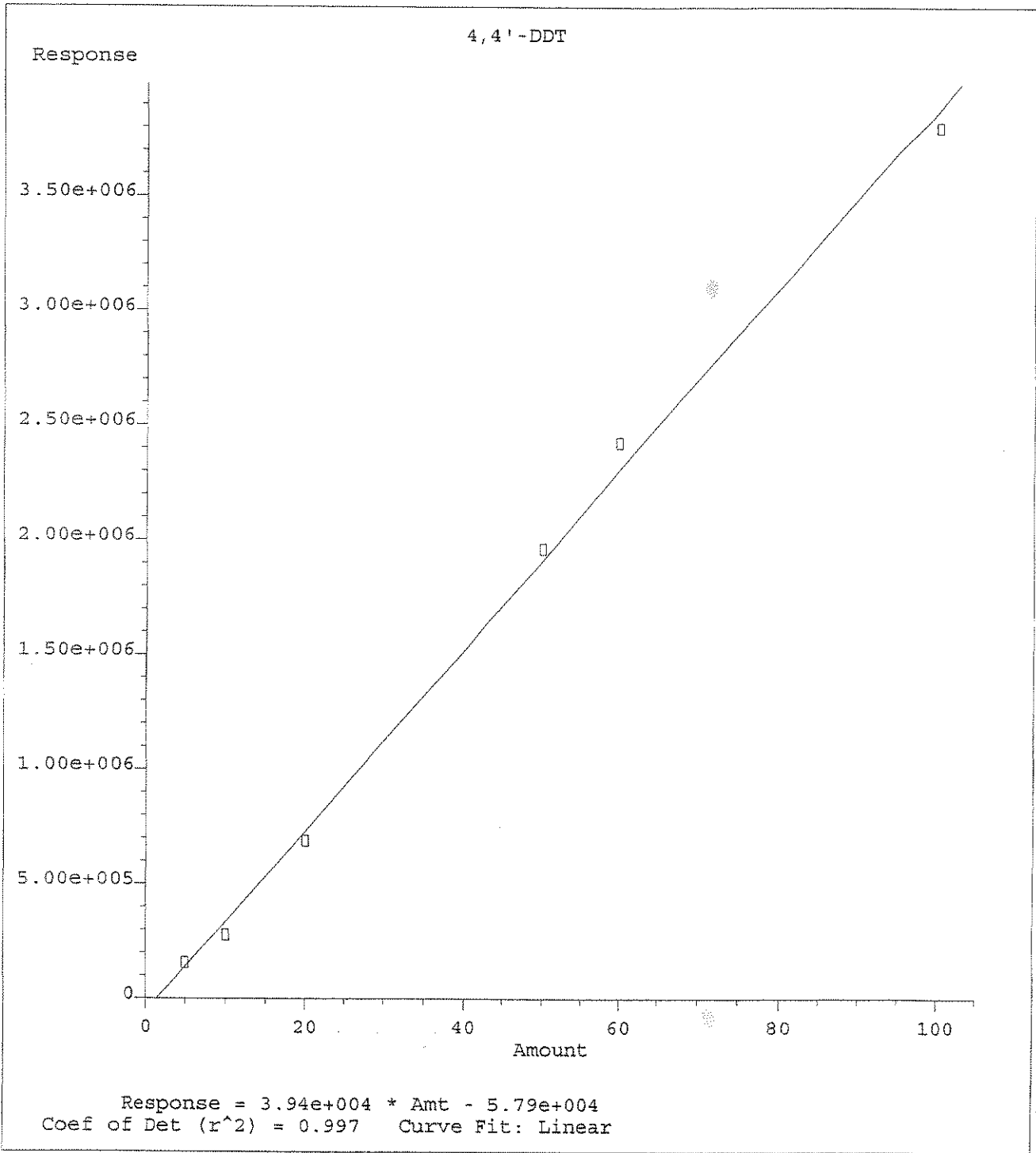
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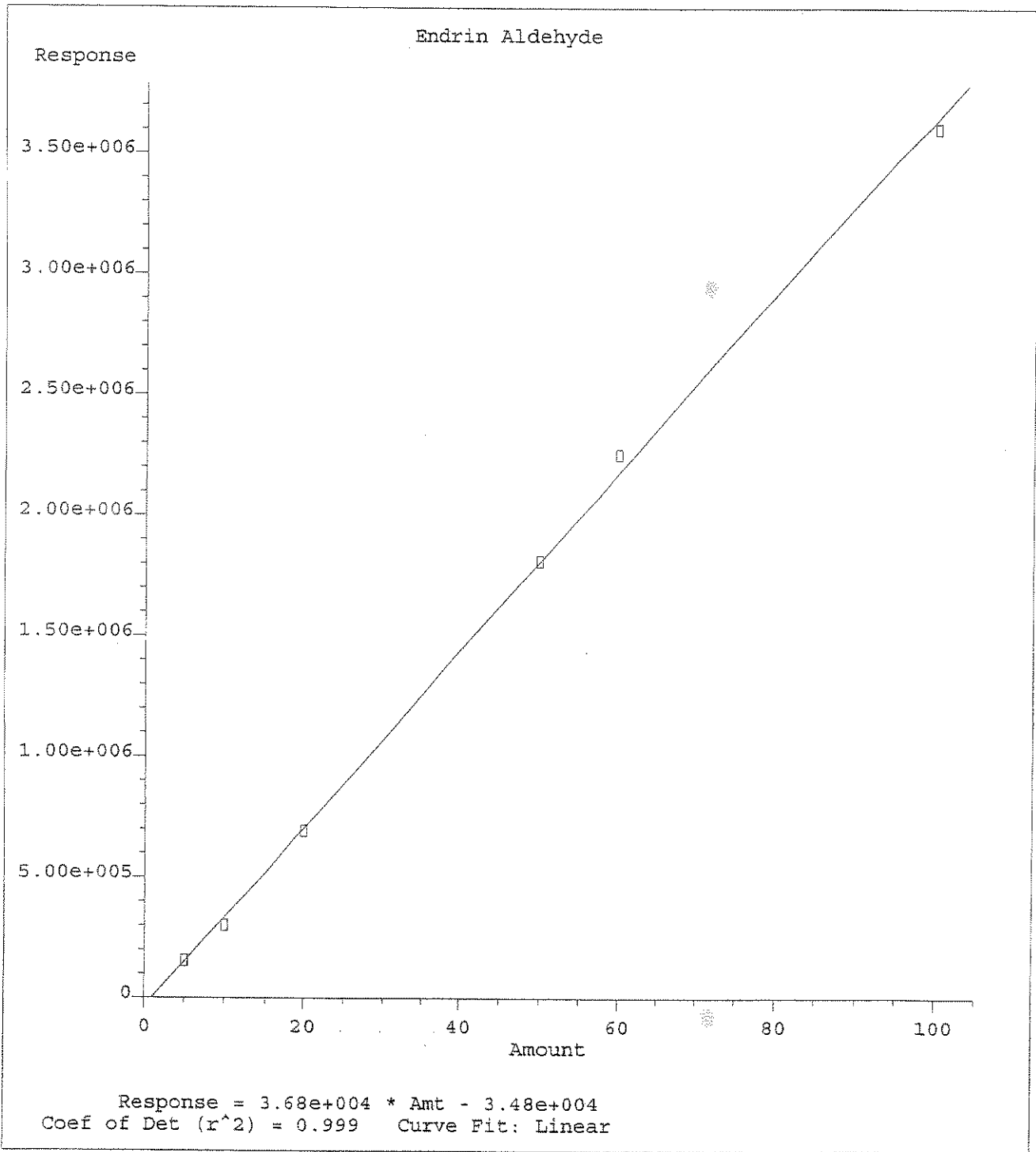


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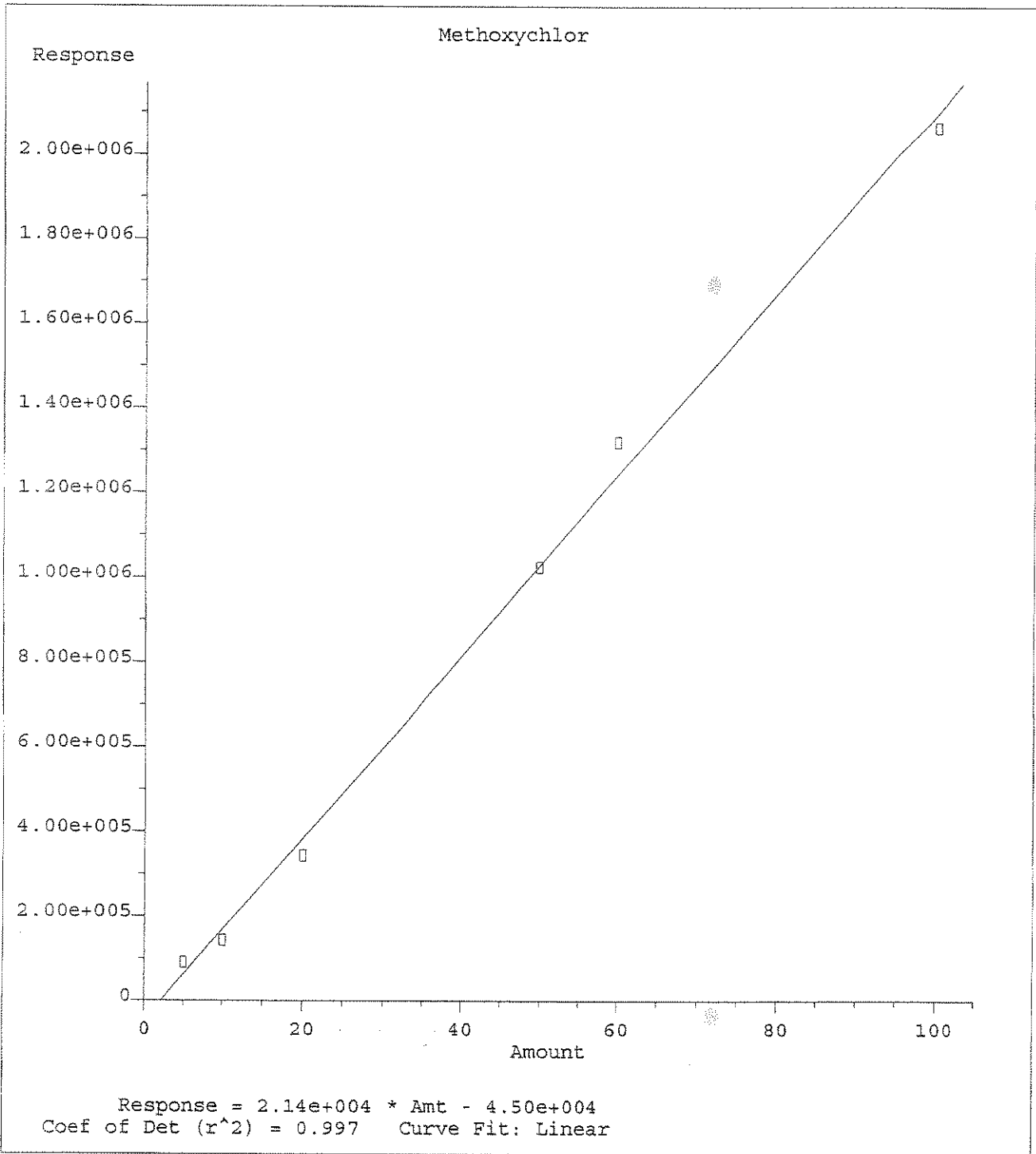


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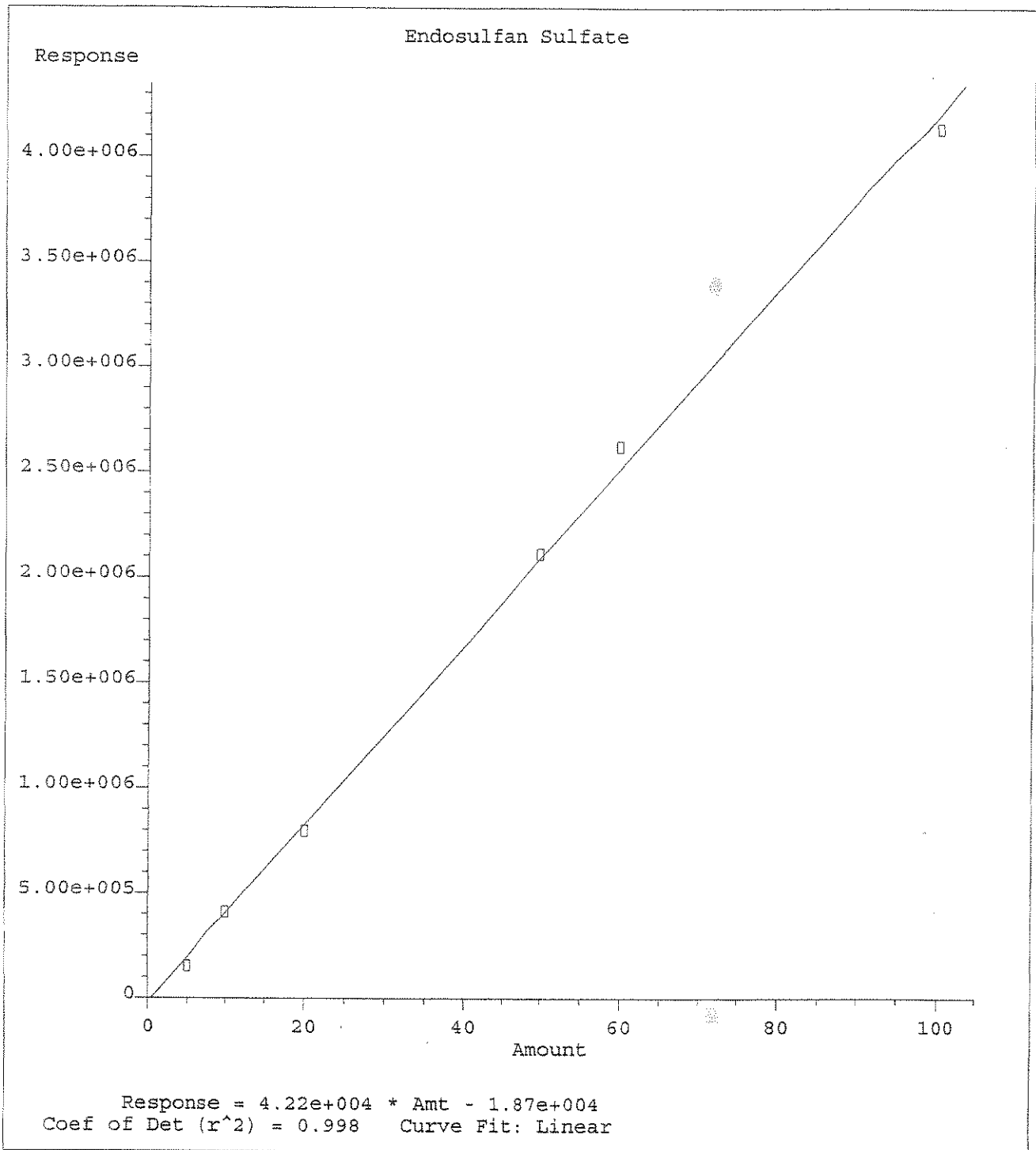




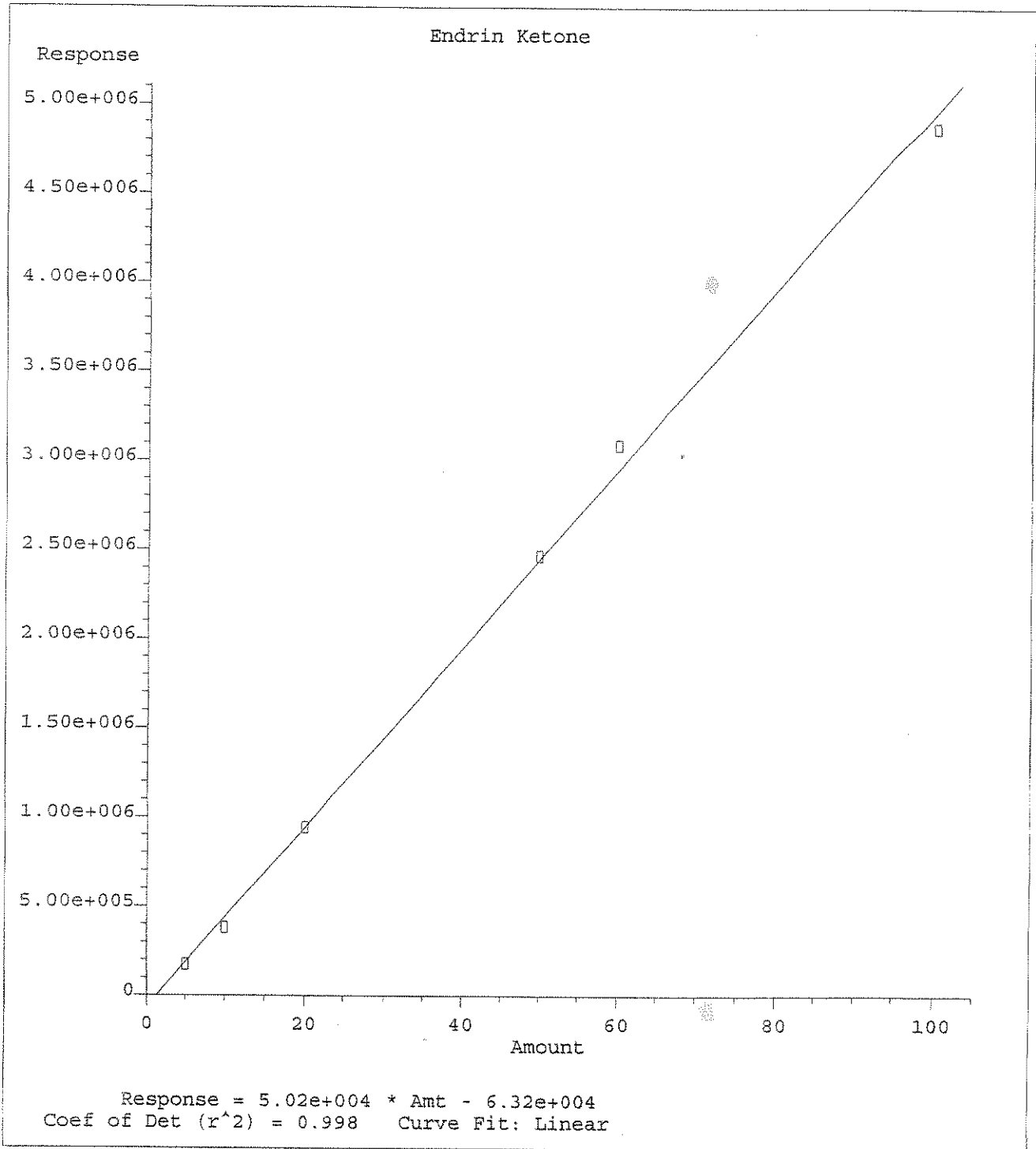
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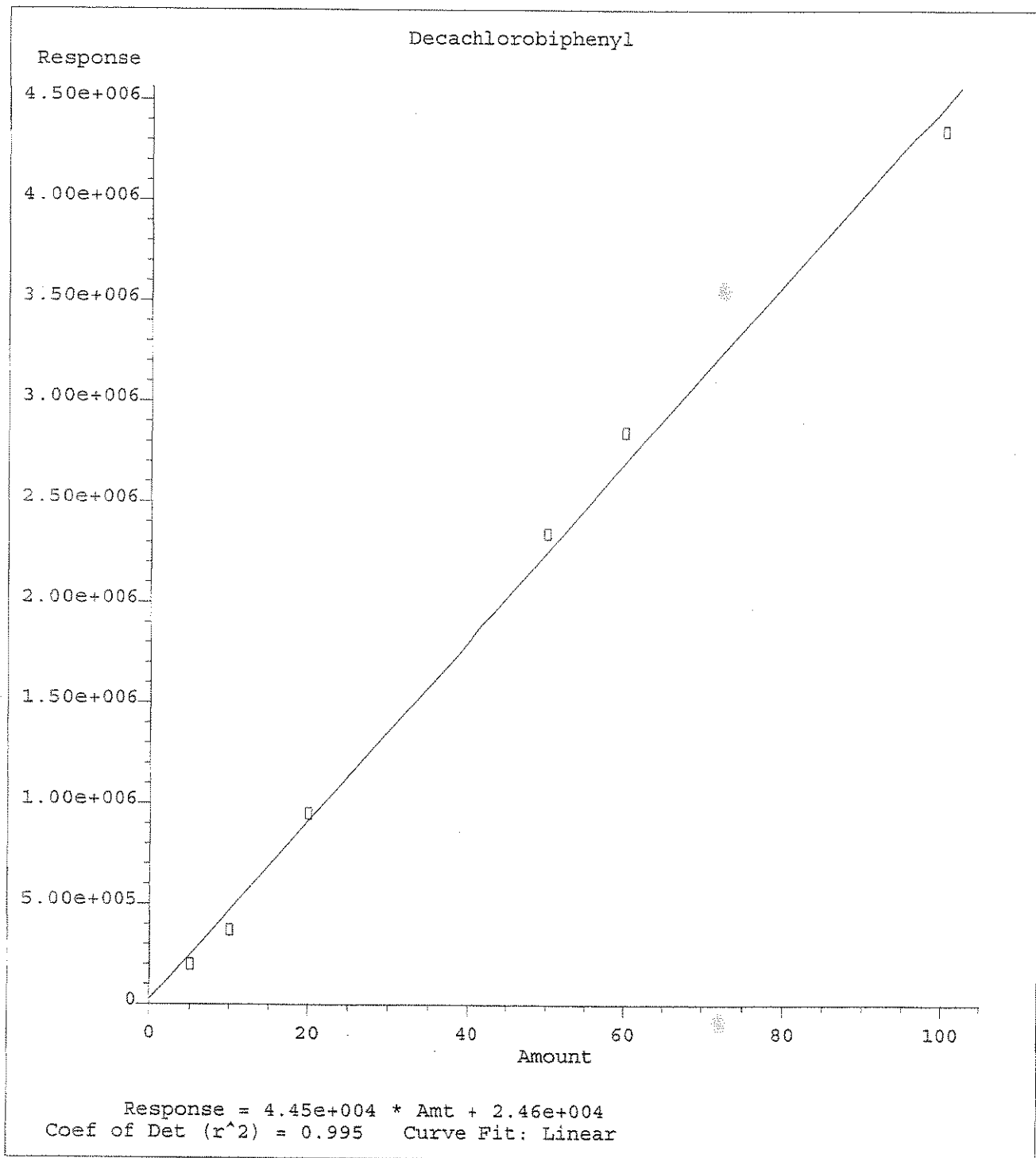
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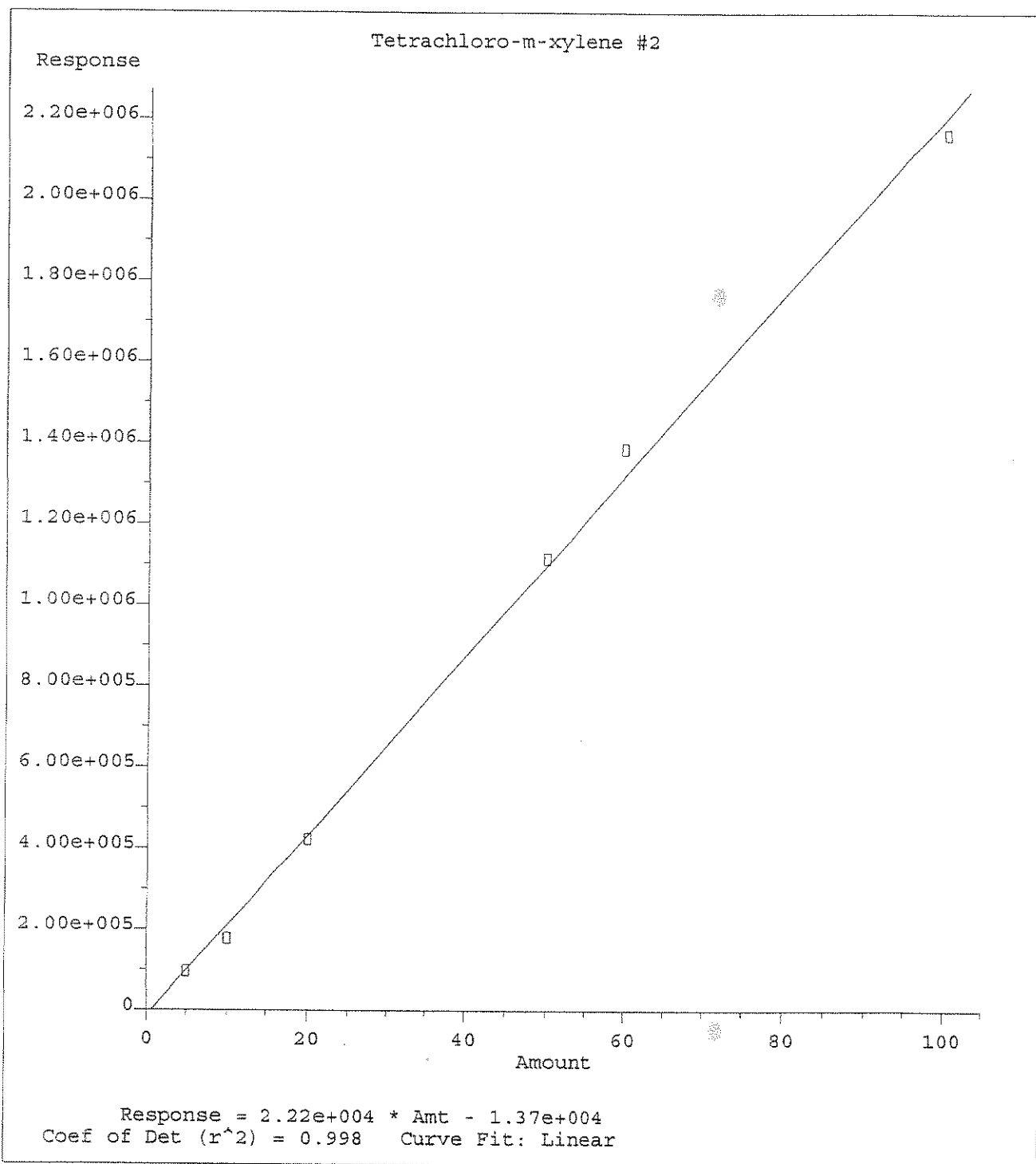
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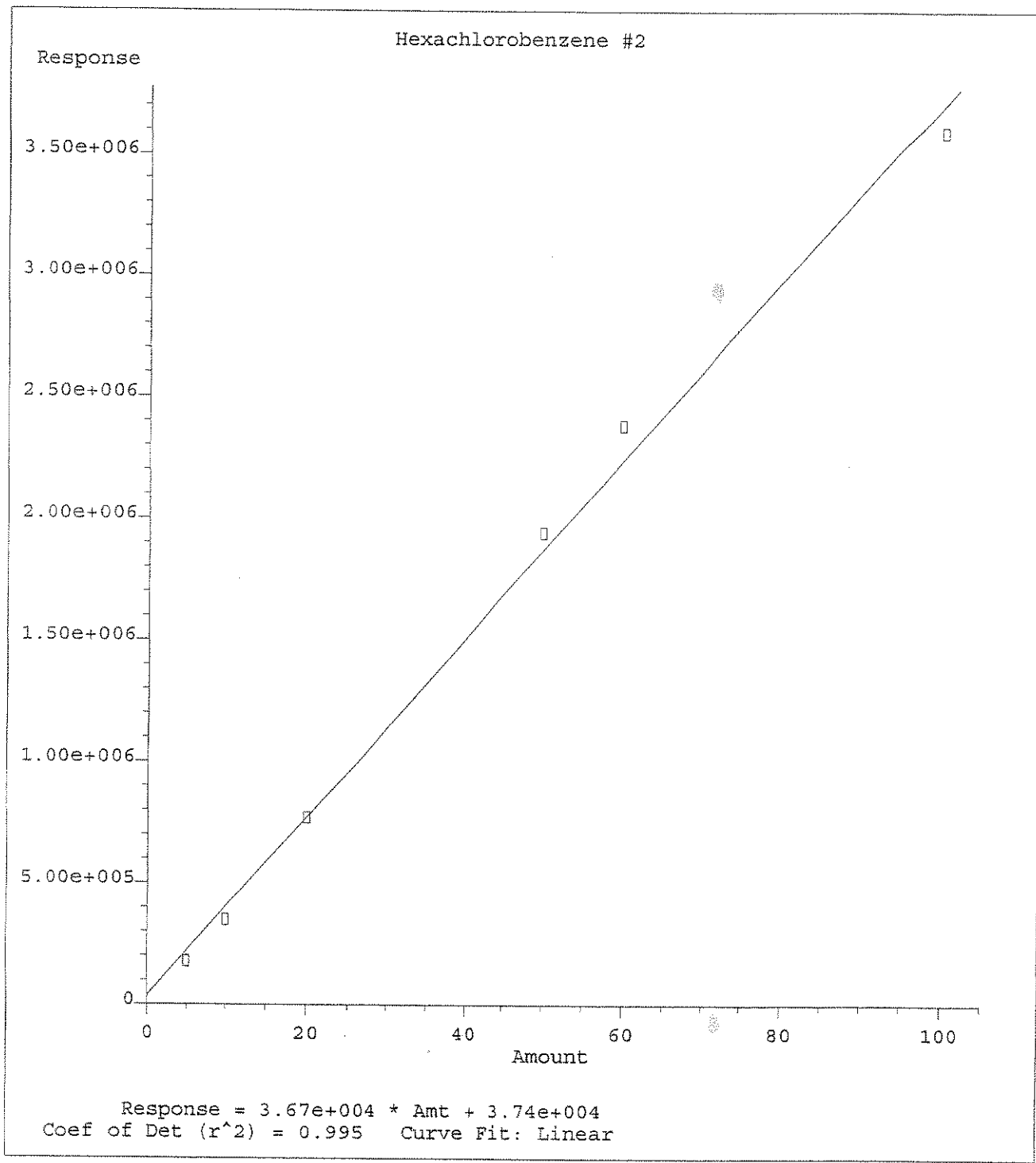
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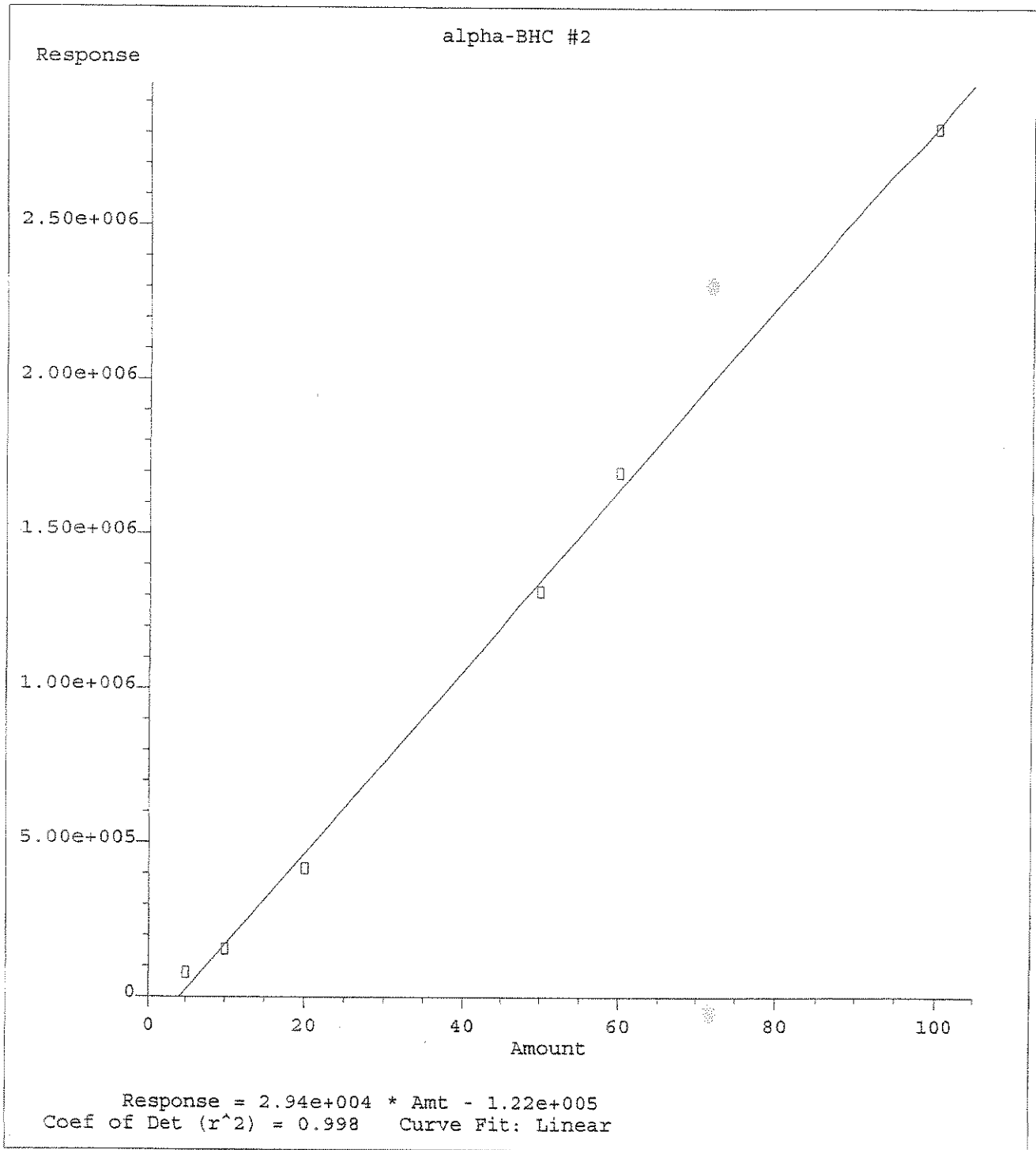
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Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



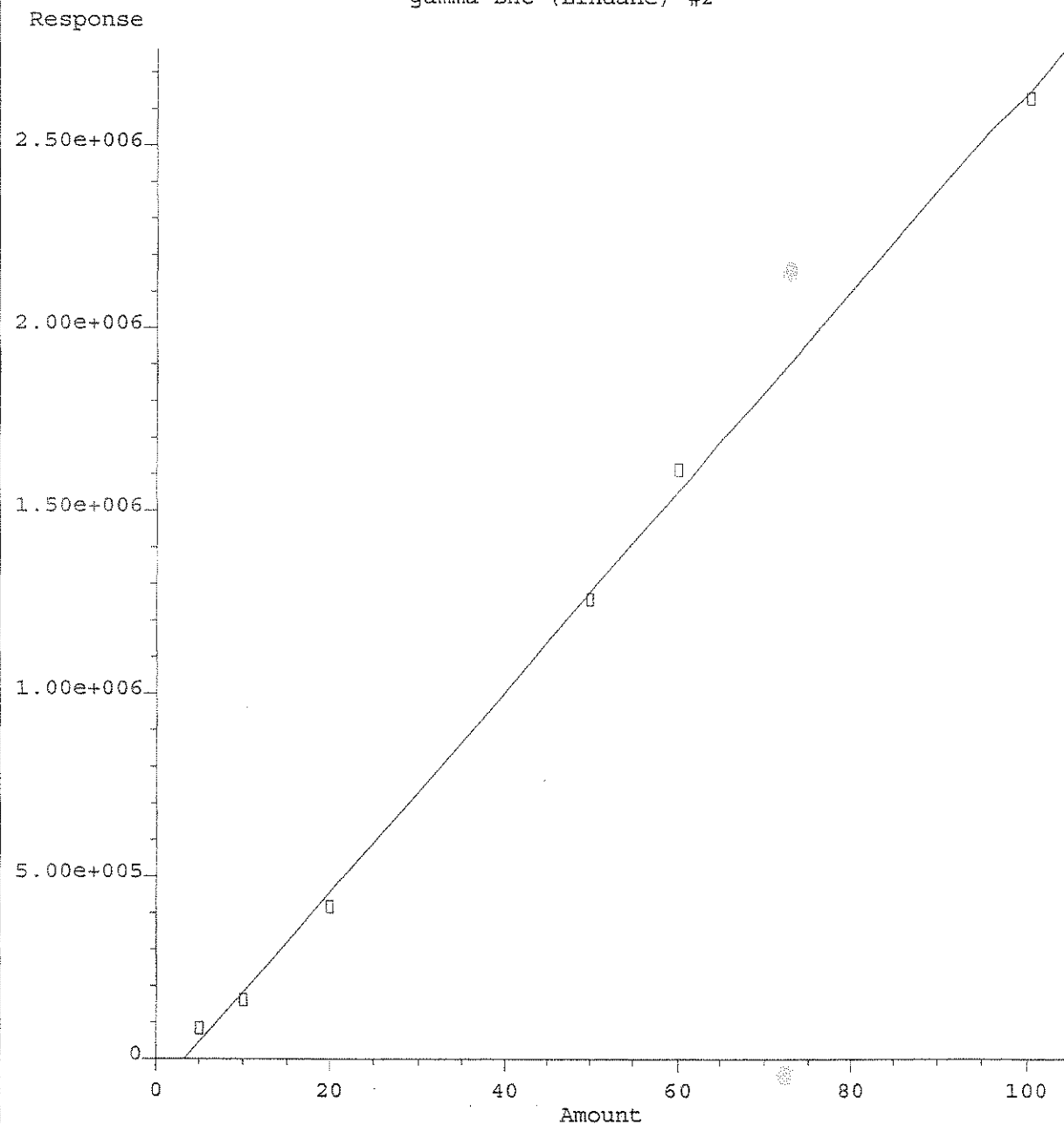
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Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

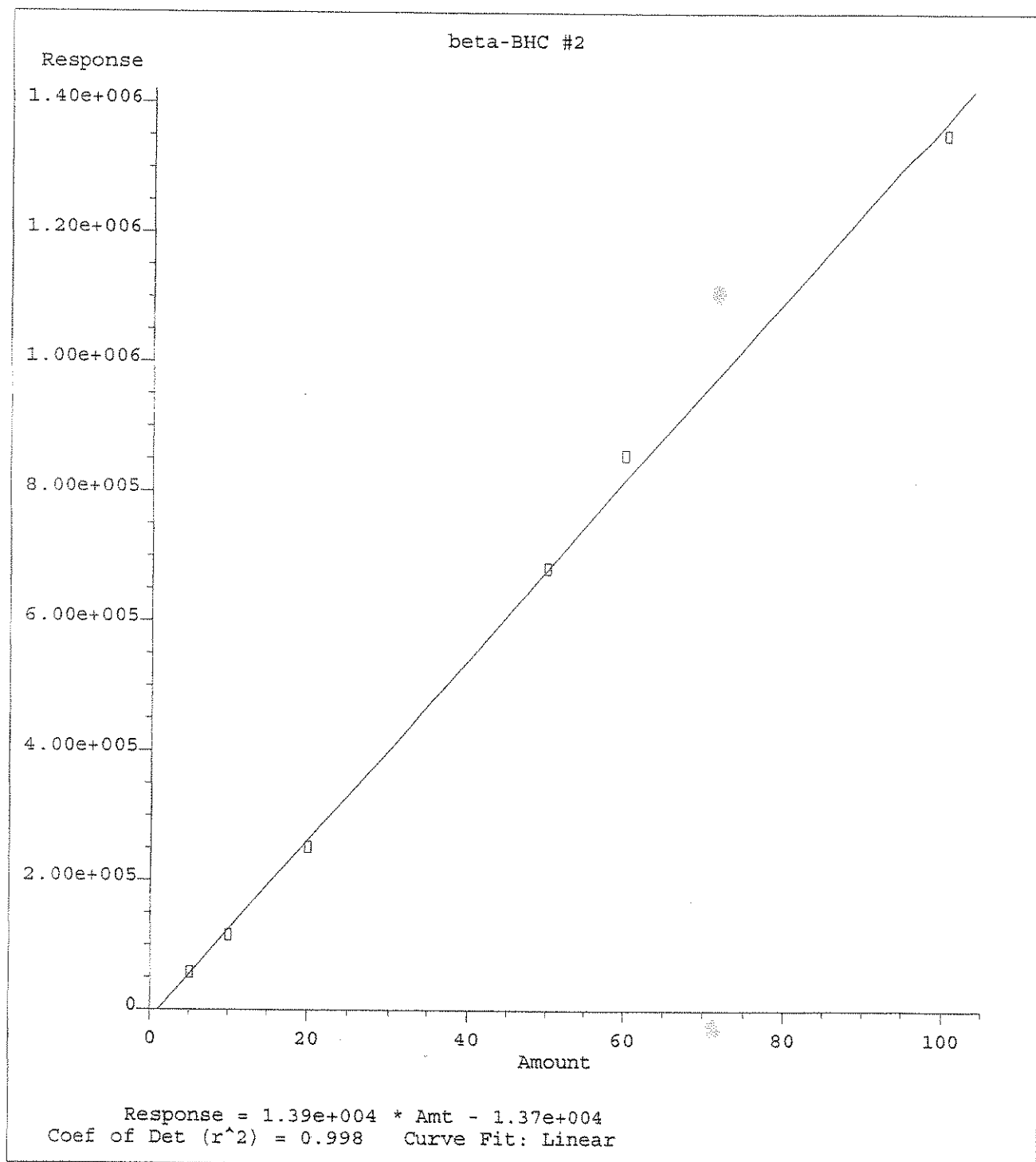


gamma-BHC (Lindane) #2

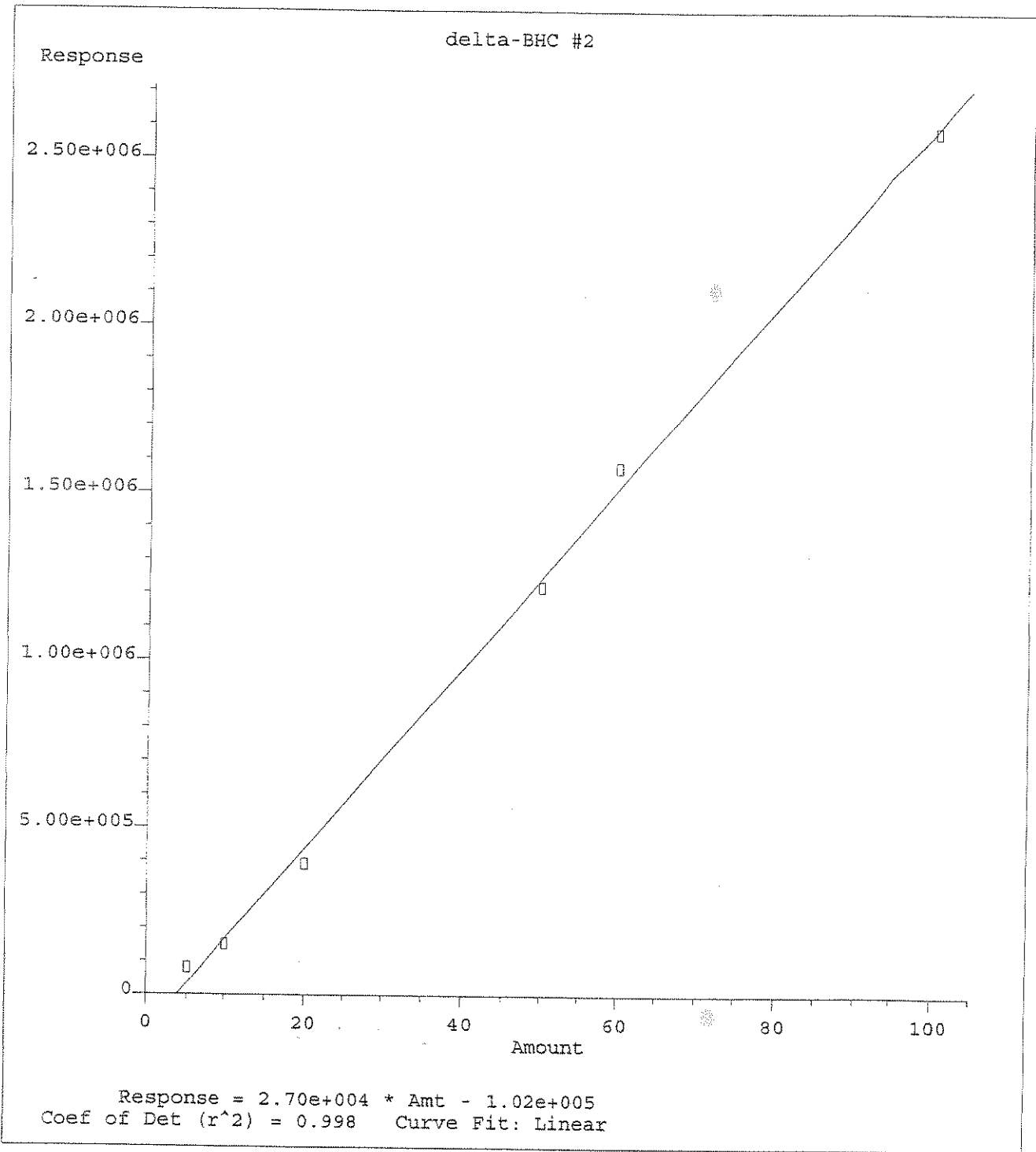


Response =  $2.74e+004 * Amt - 9.08e+004$   
Coef of Det ( $r^2$ ) = 0.998 Curve Fit: Linear

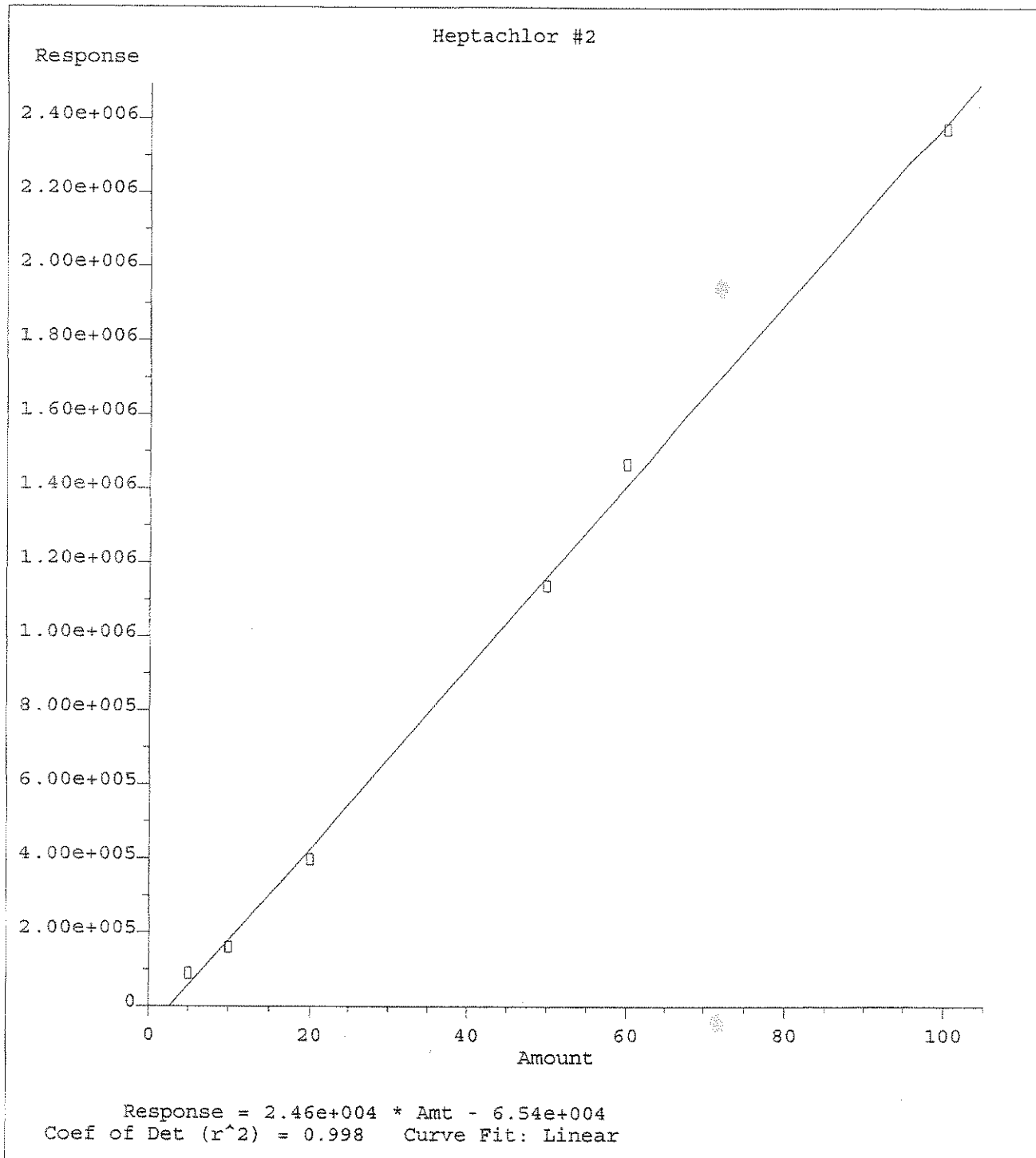
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Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



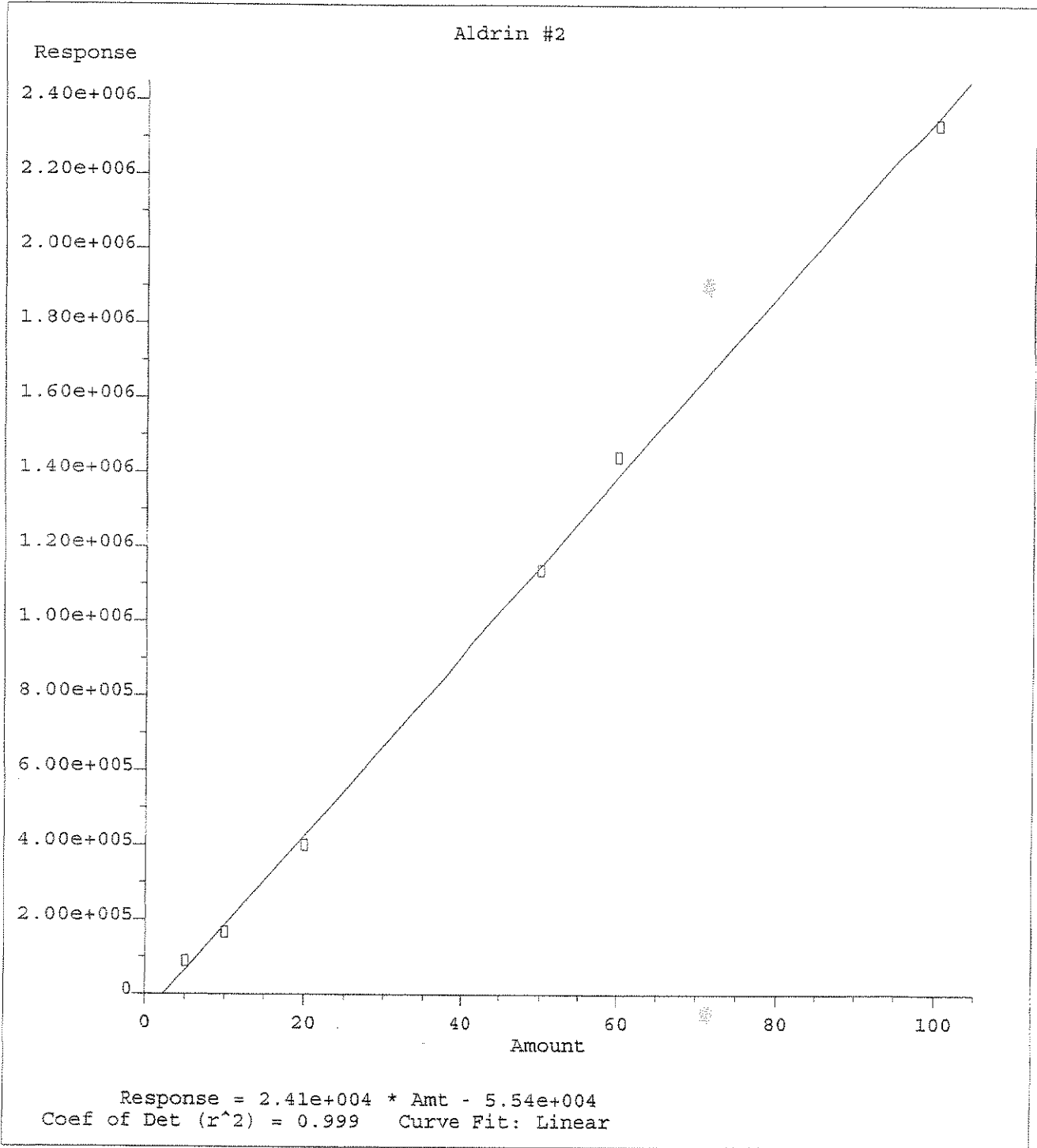
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Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



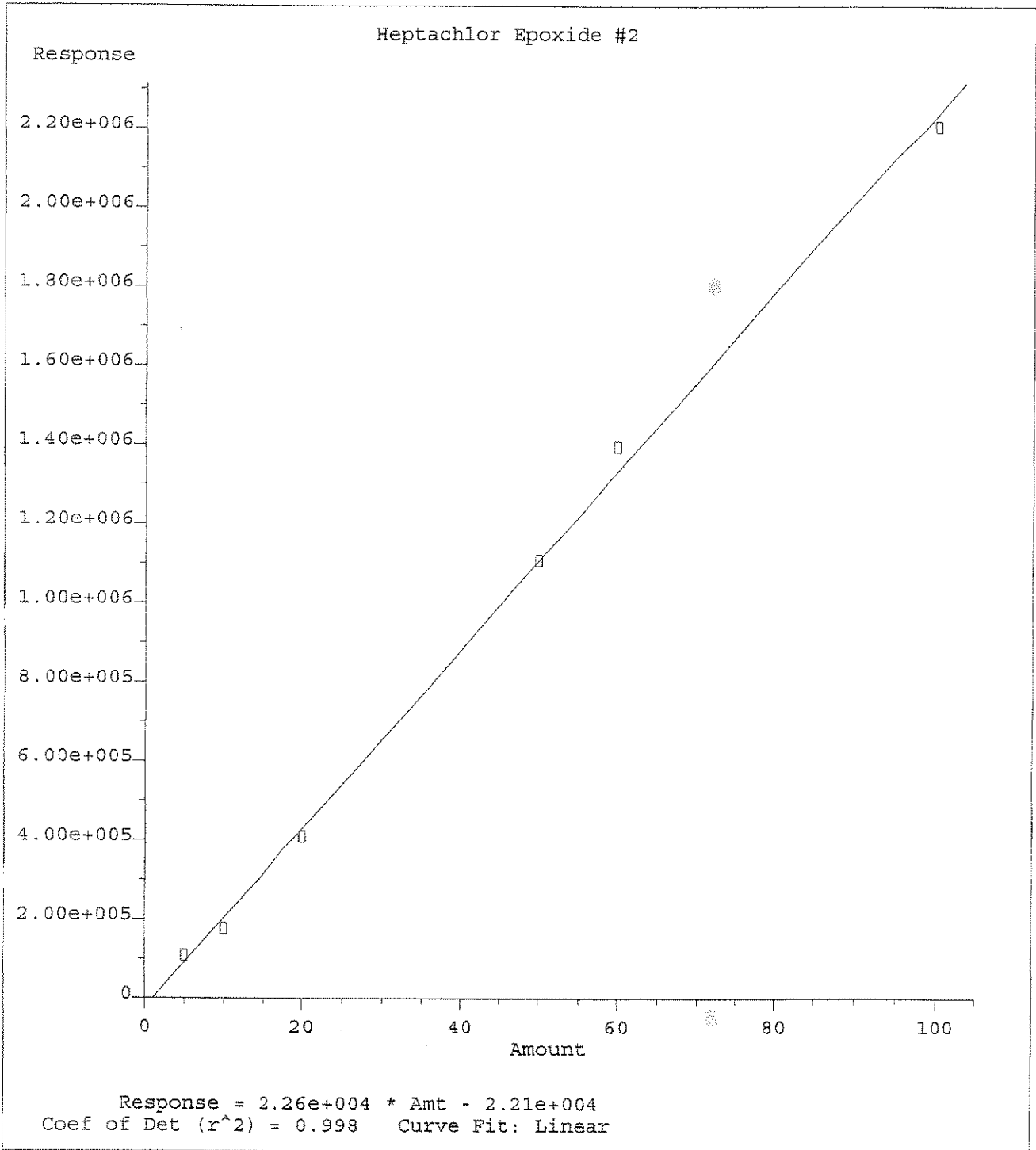
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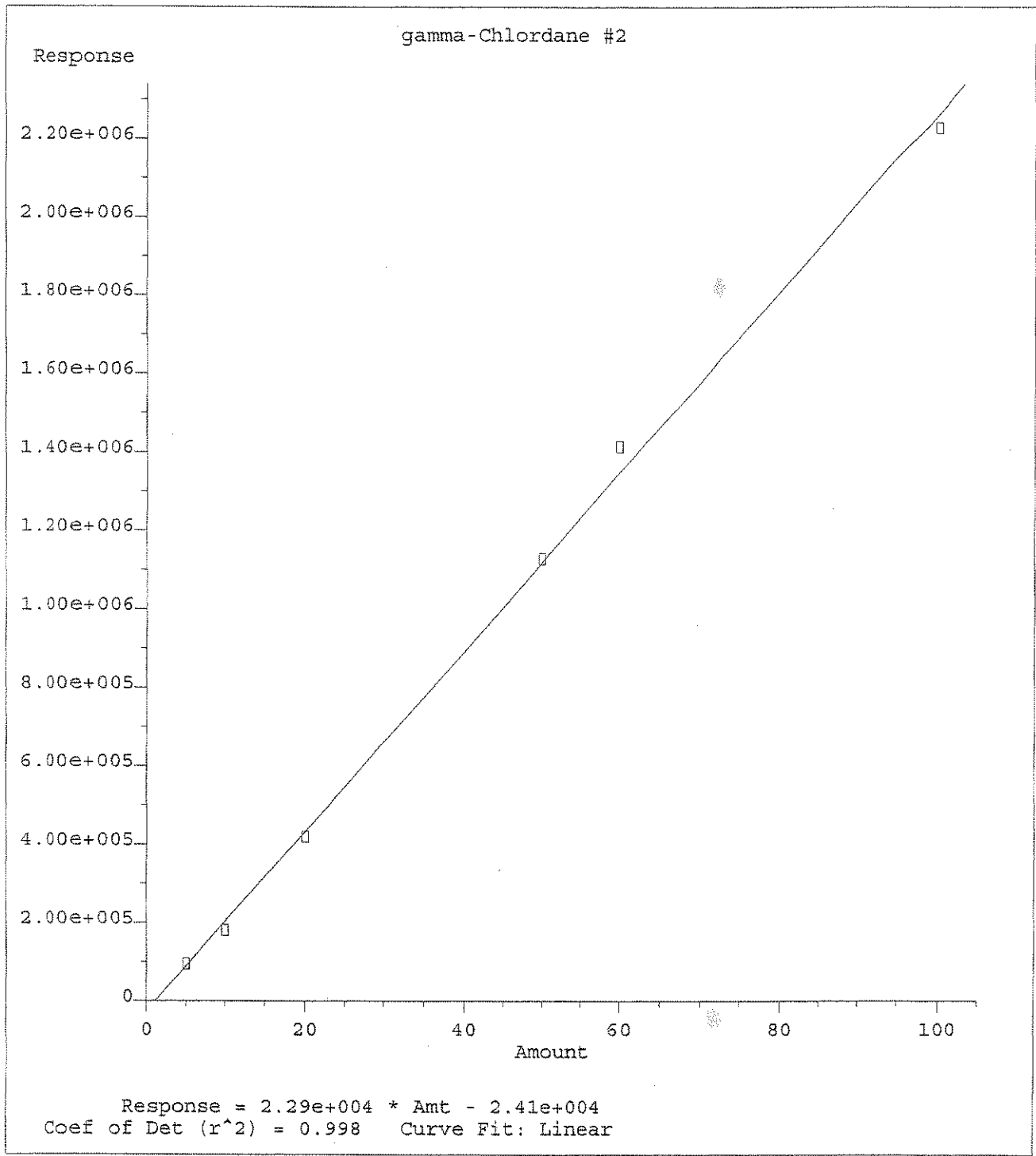
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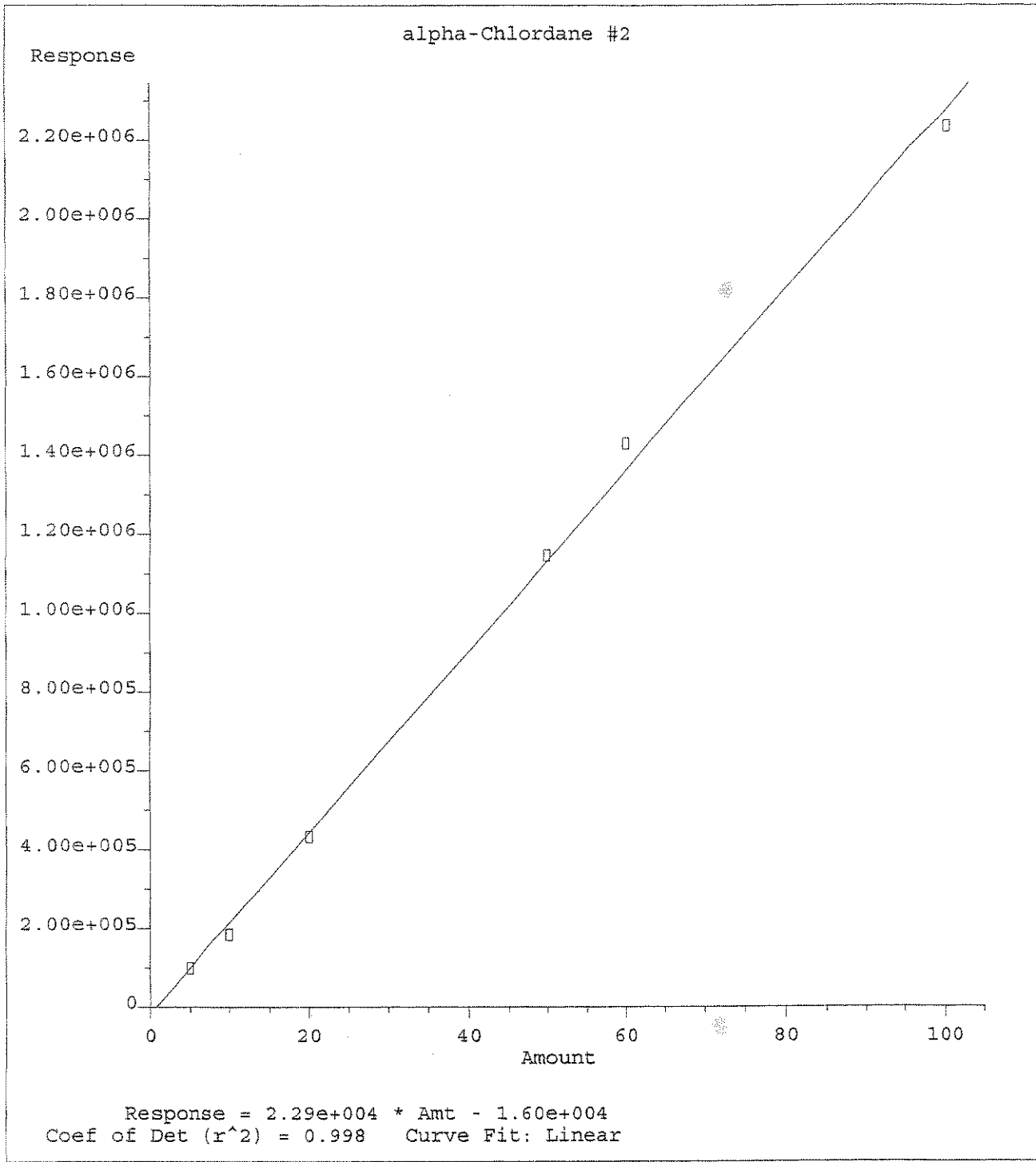
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 Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



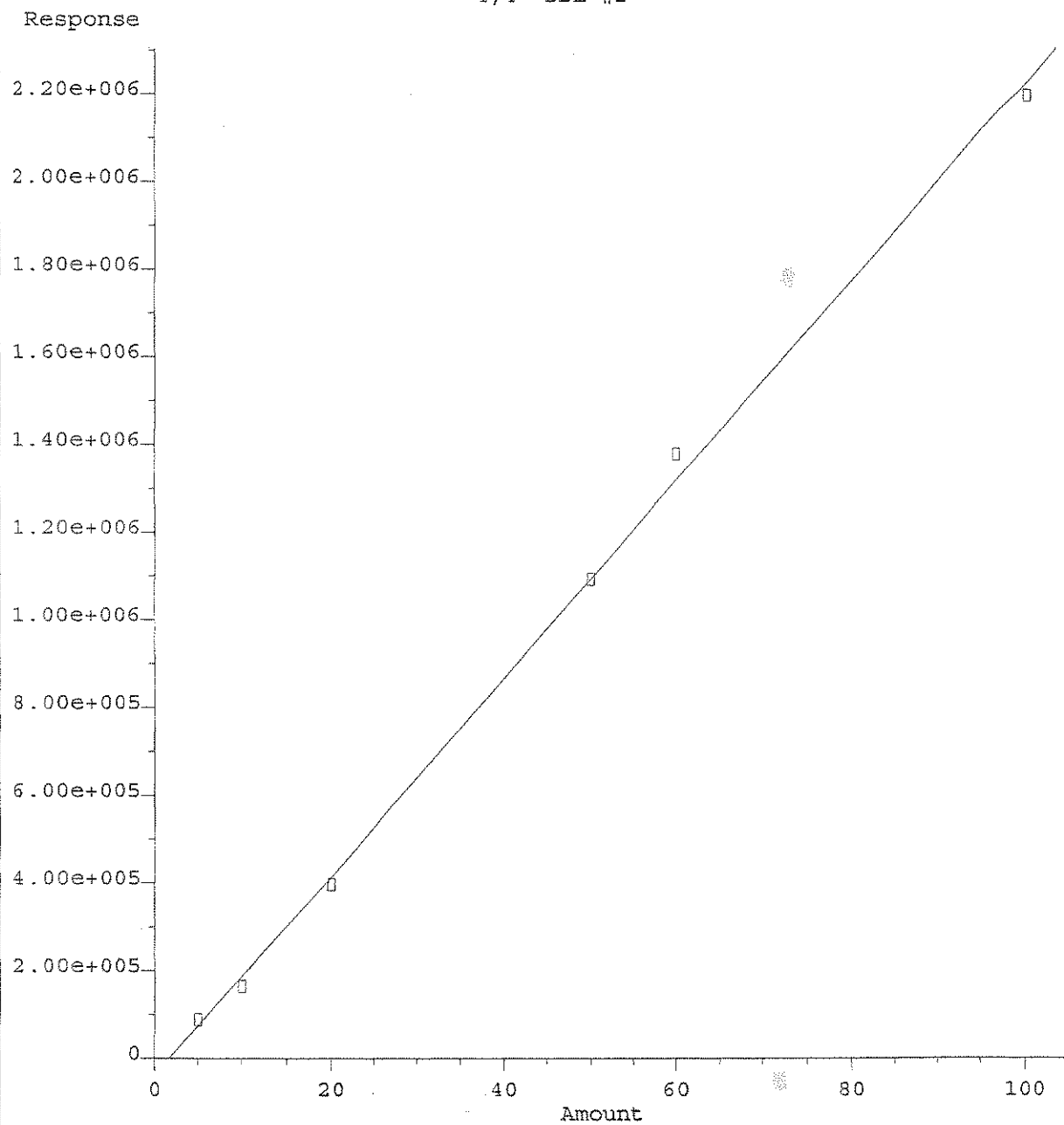
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 Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



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 Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

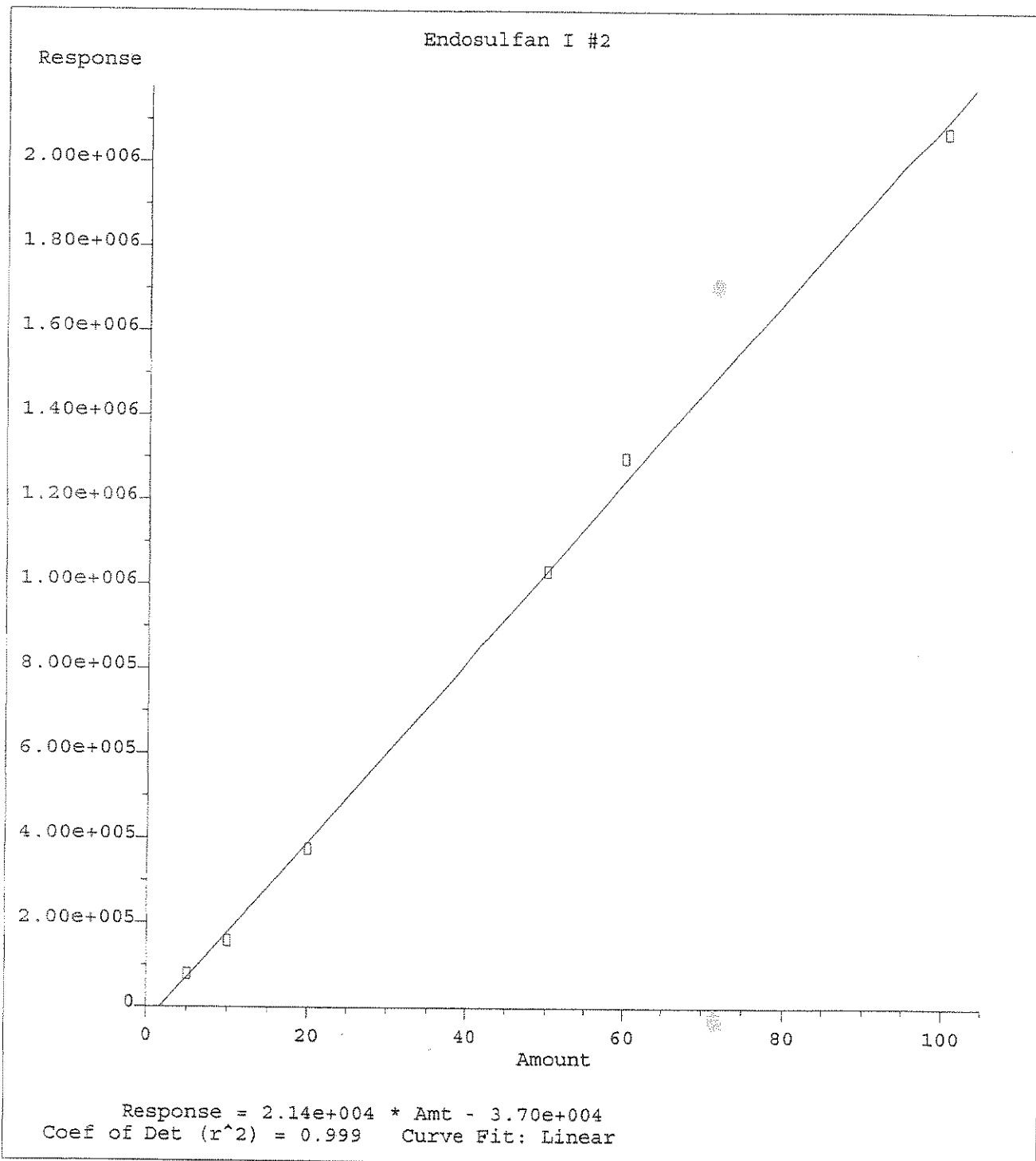


4,4'-DDE #2

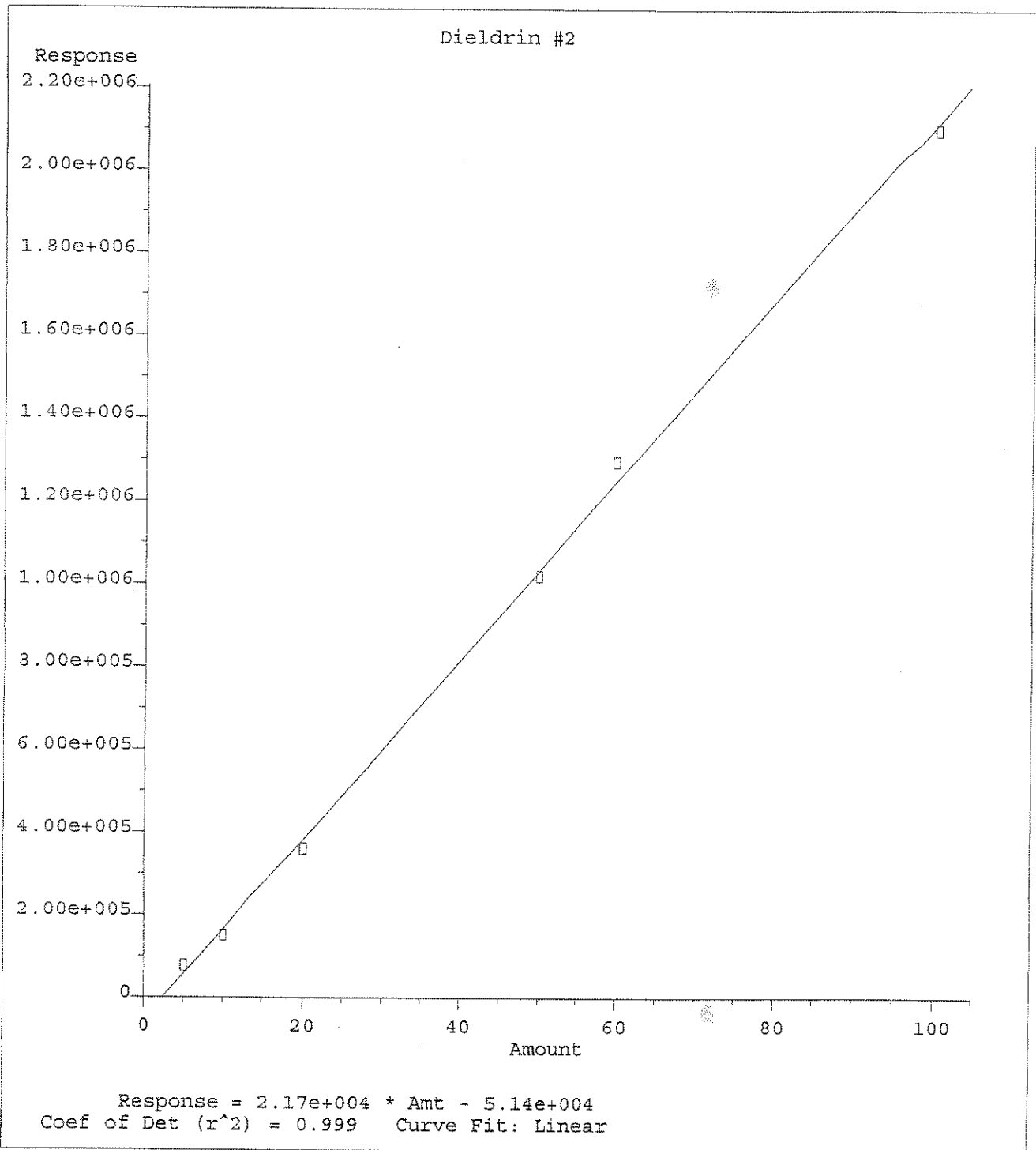


Response = 2.26e+004 \* Amt - 3.79e+004  
Coef of Det (r^2) = 0.998 Curve Fit: Linear

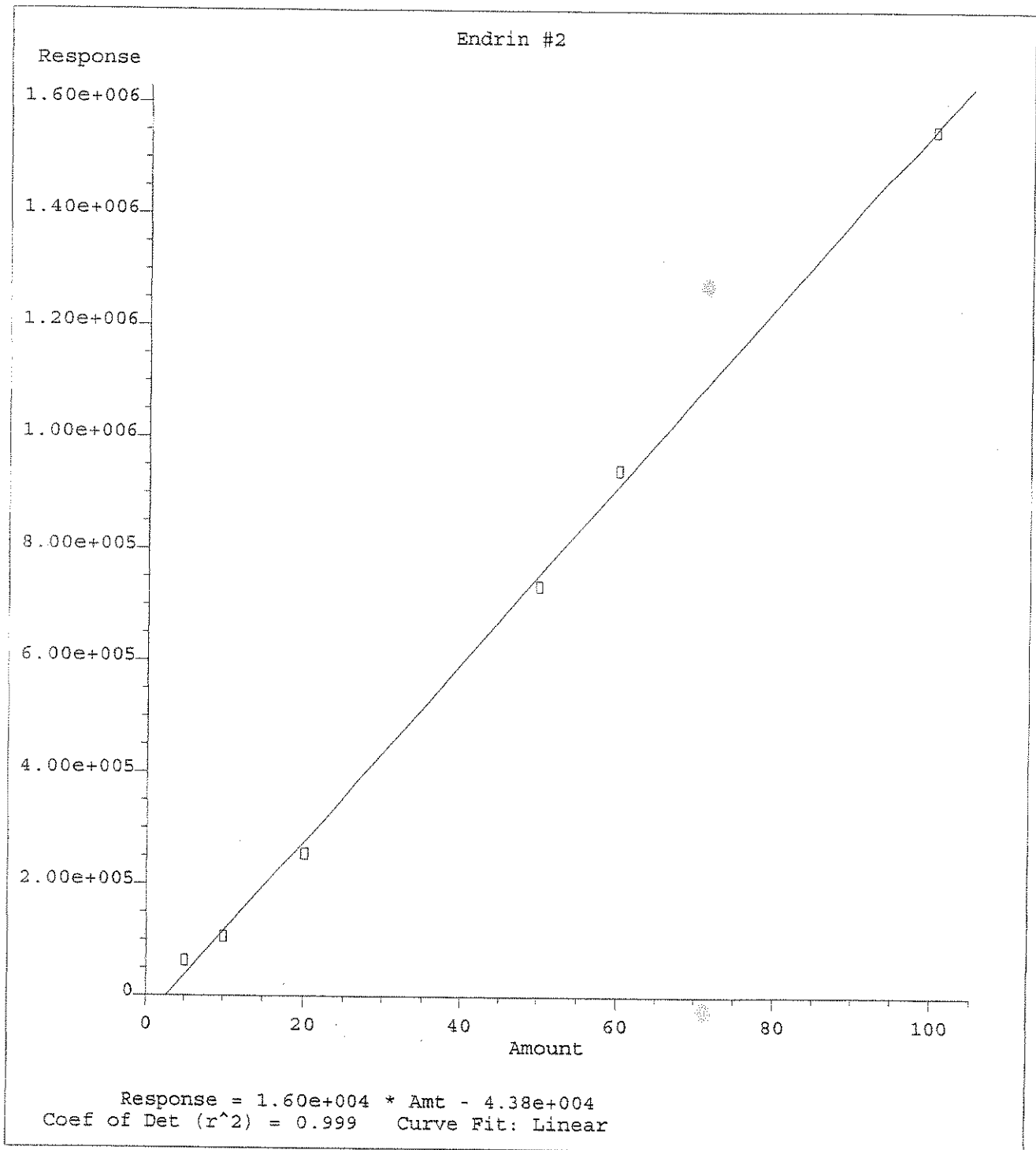
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Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



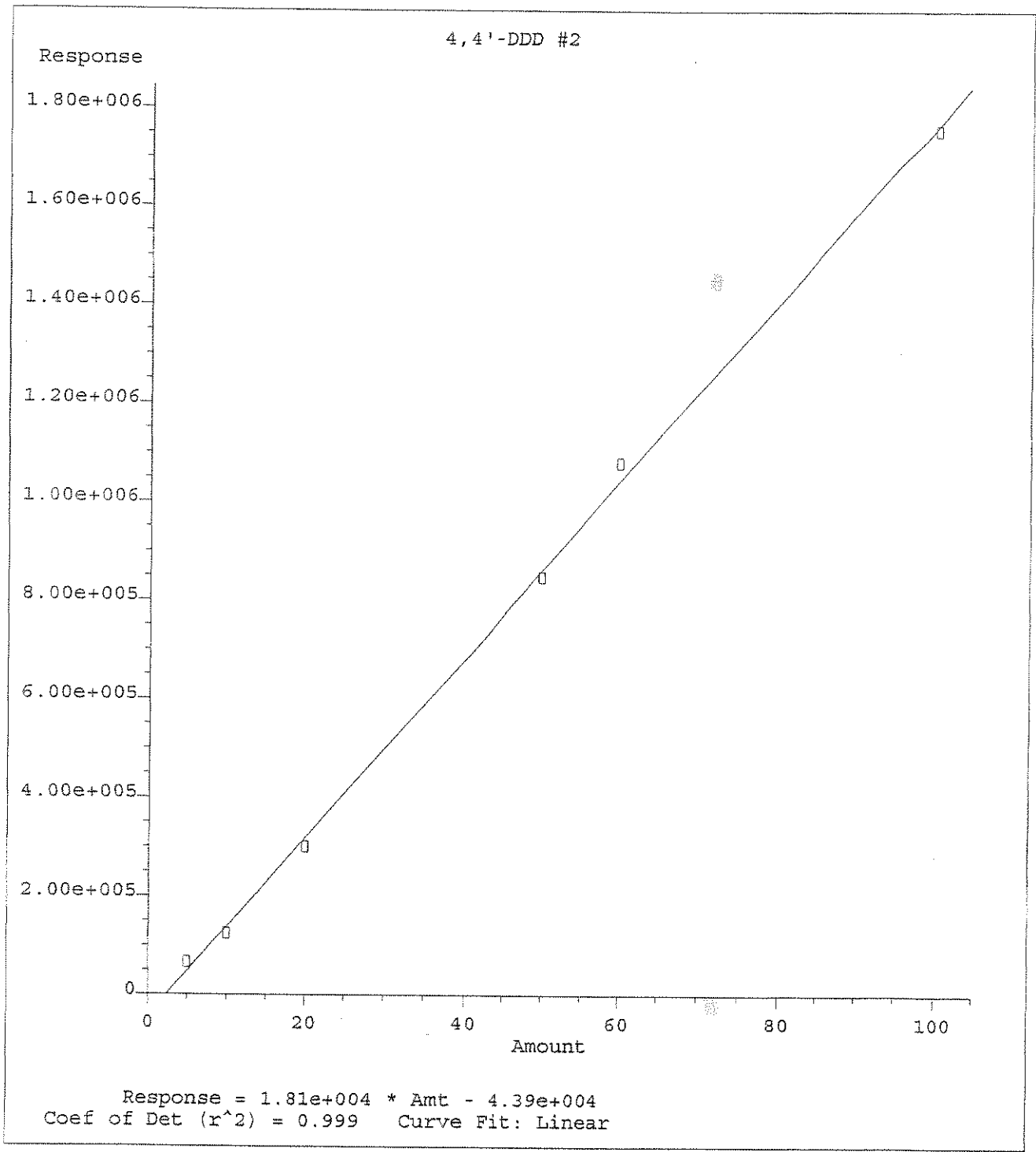
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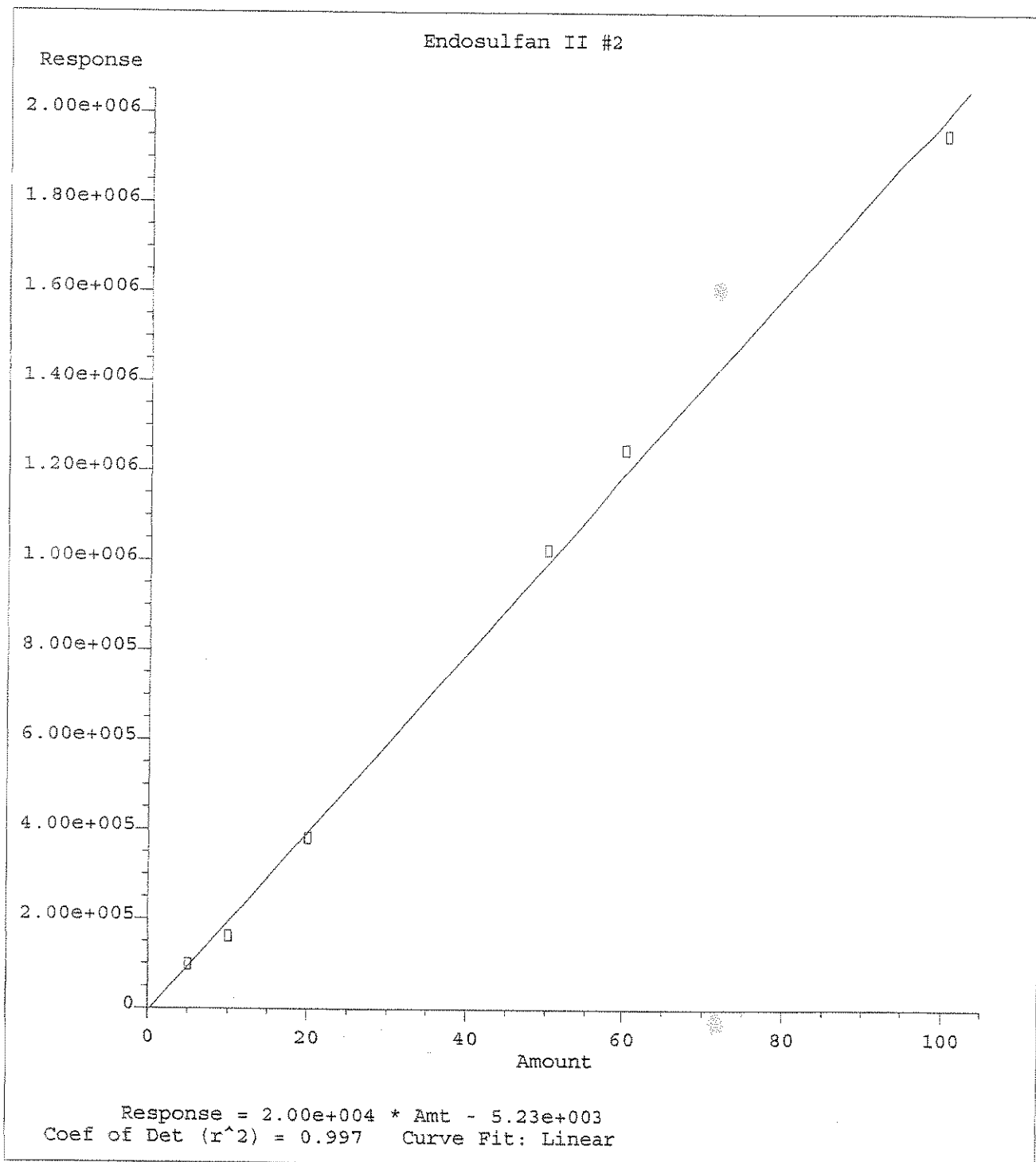
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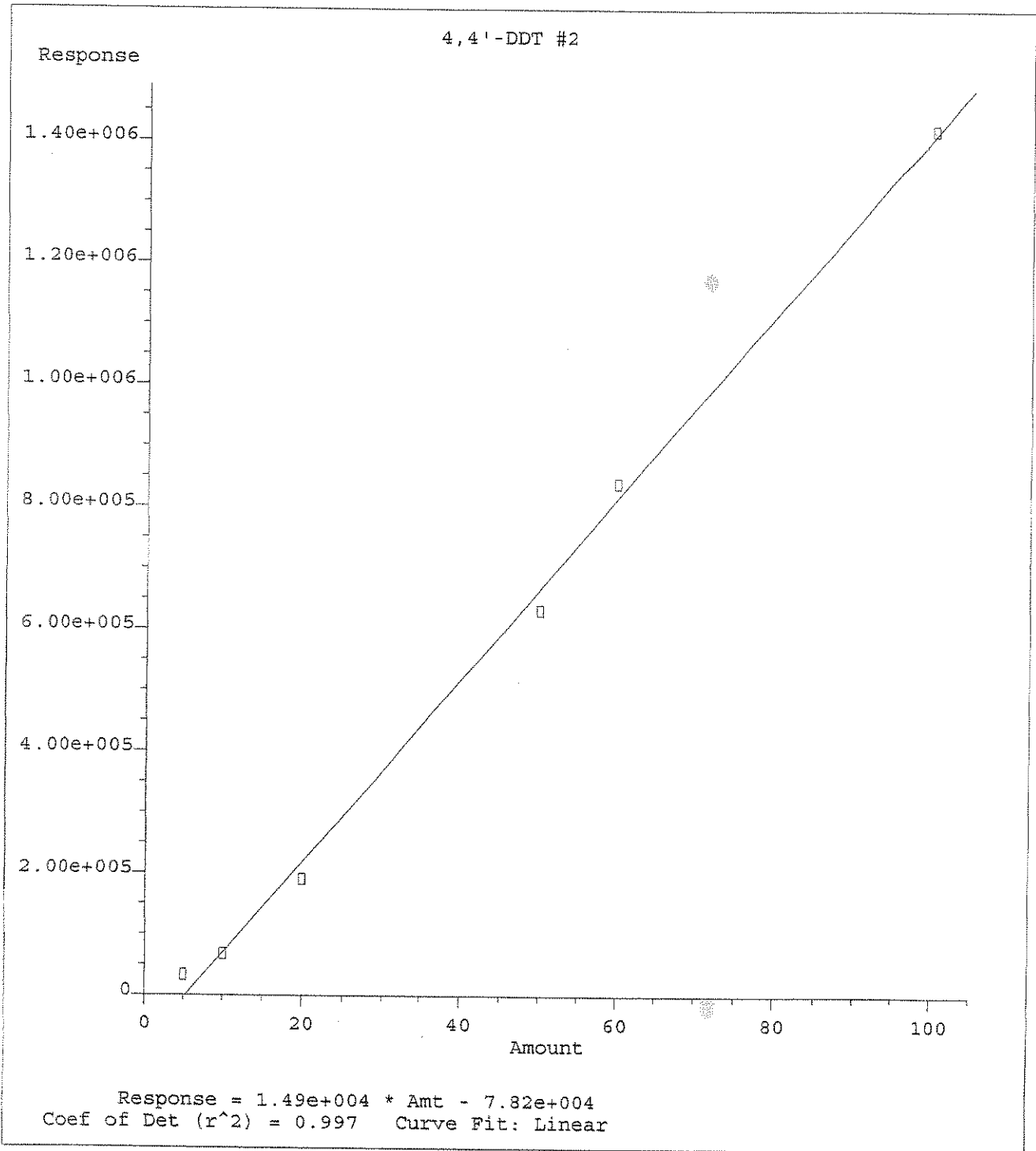
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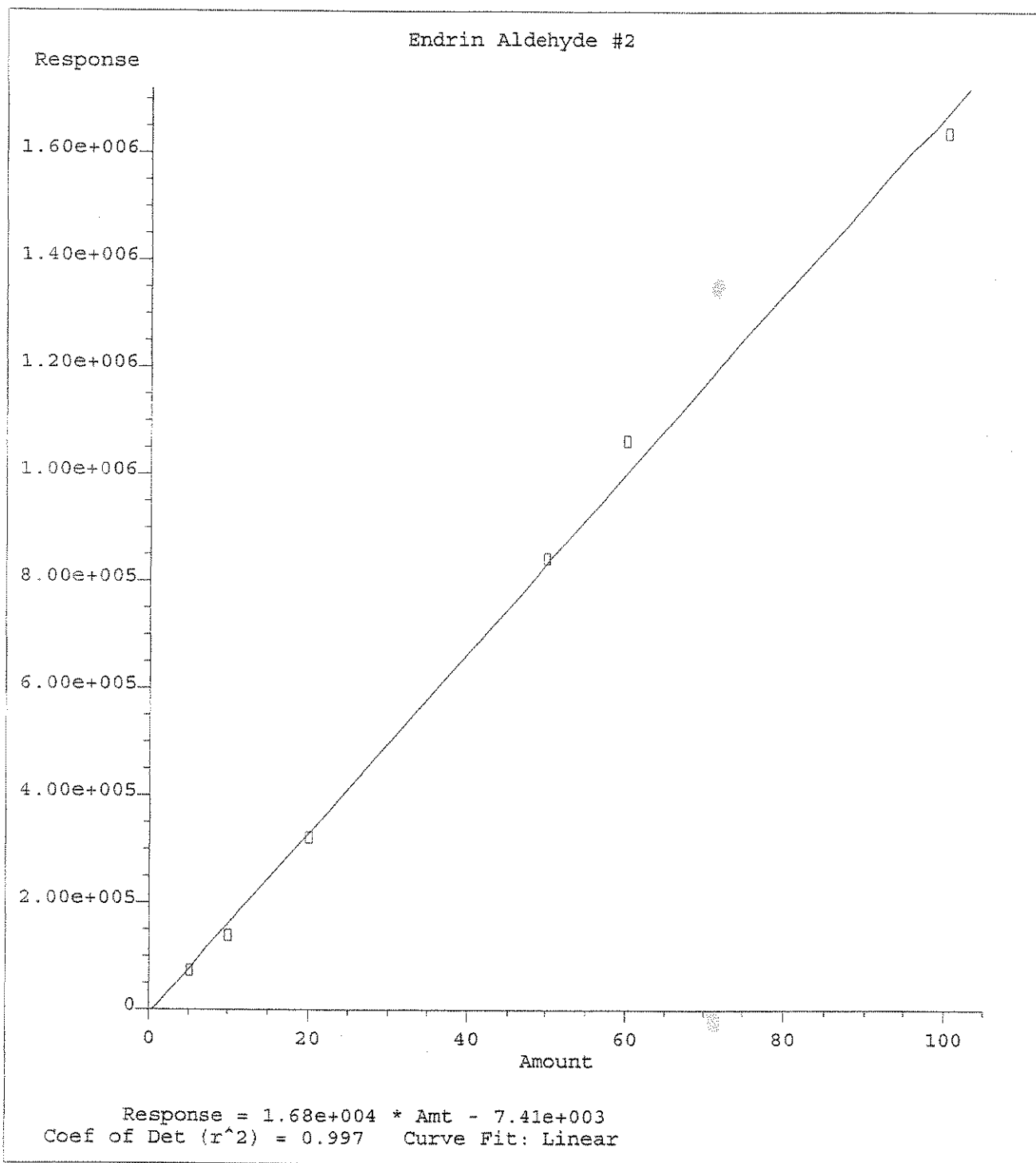
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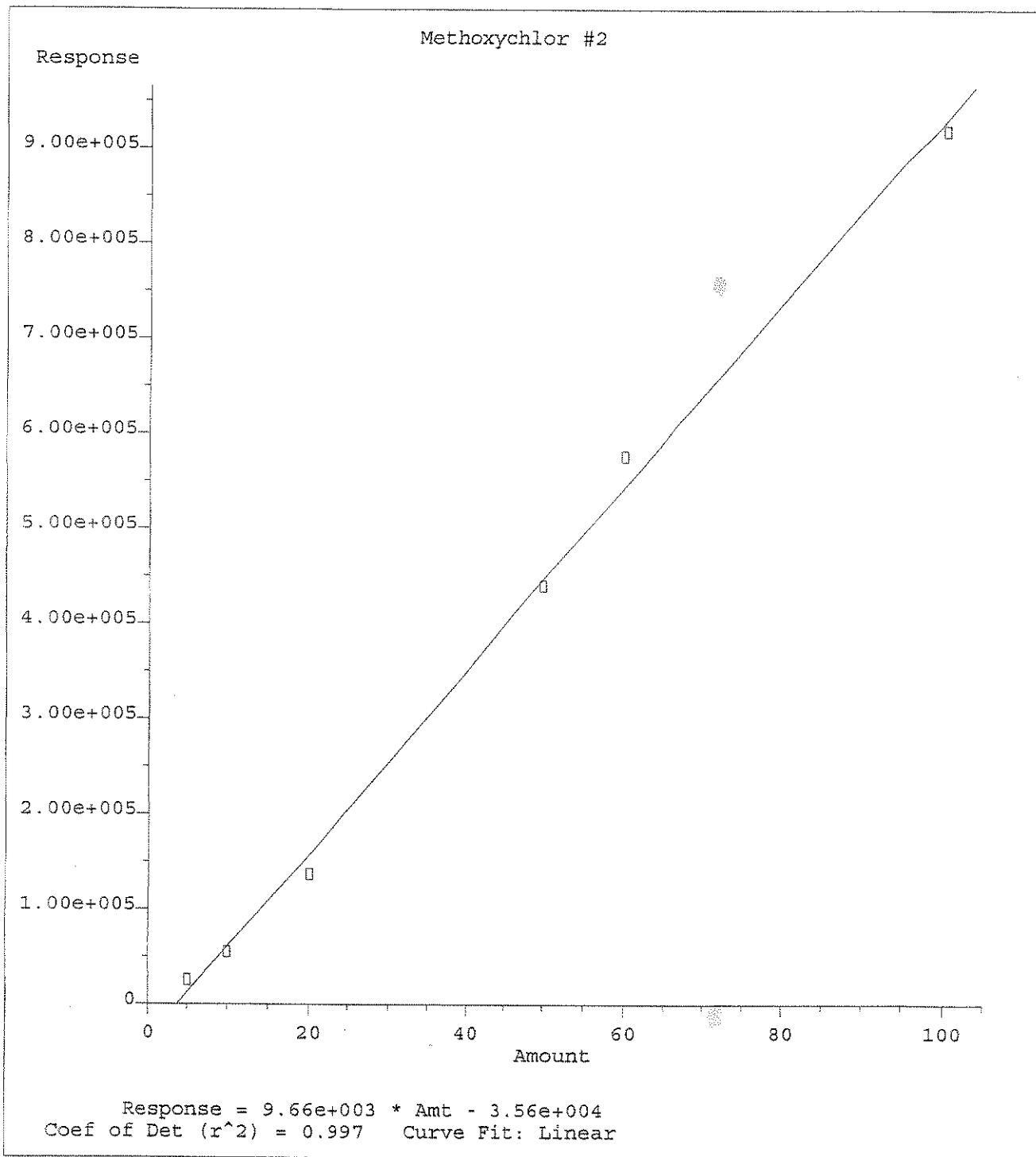


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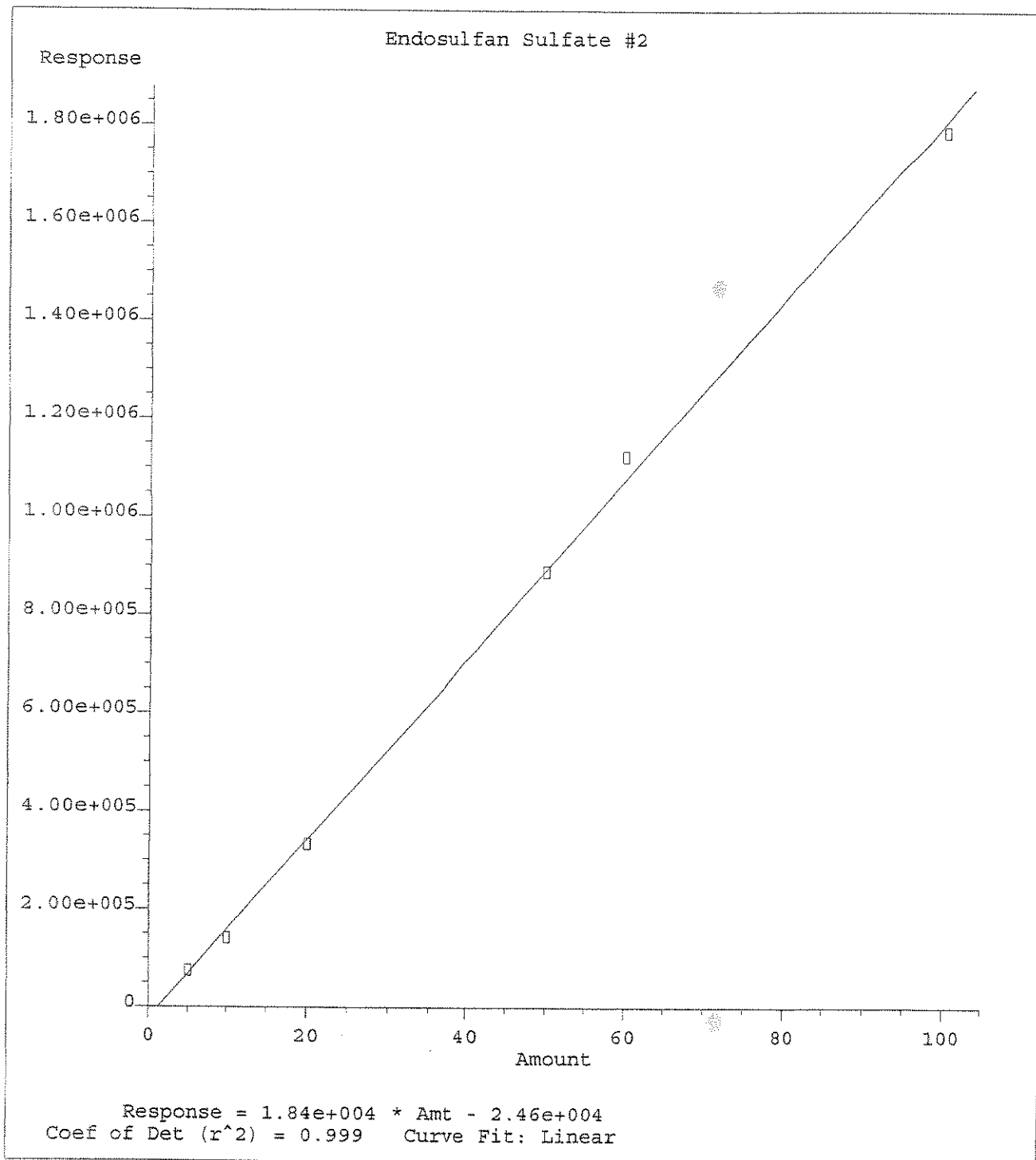


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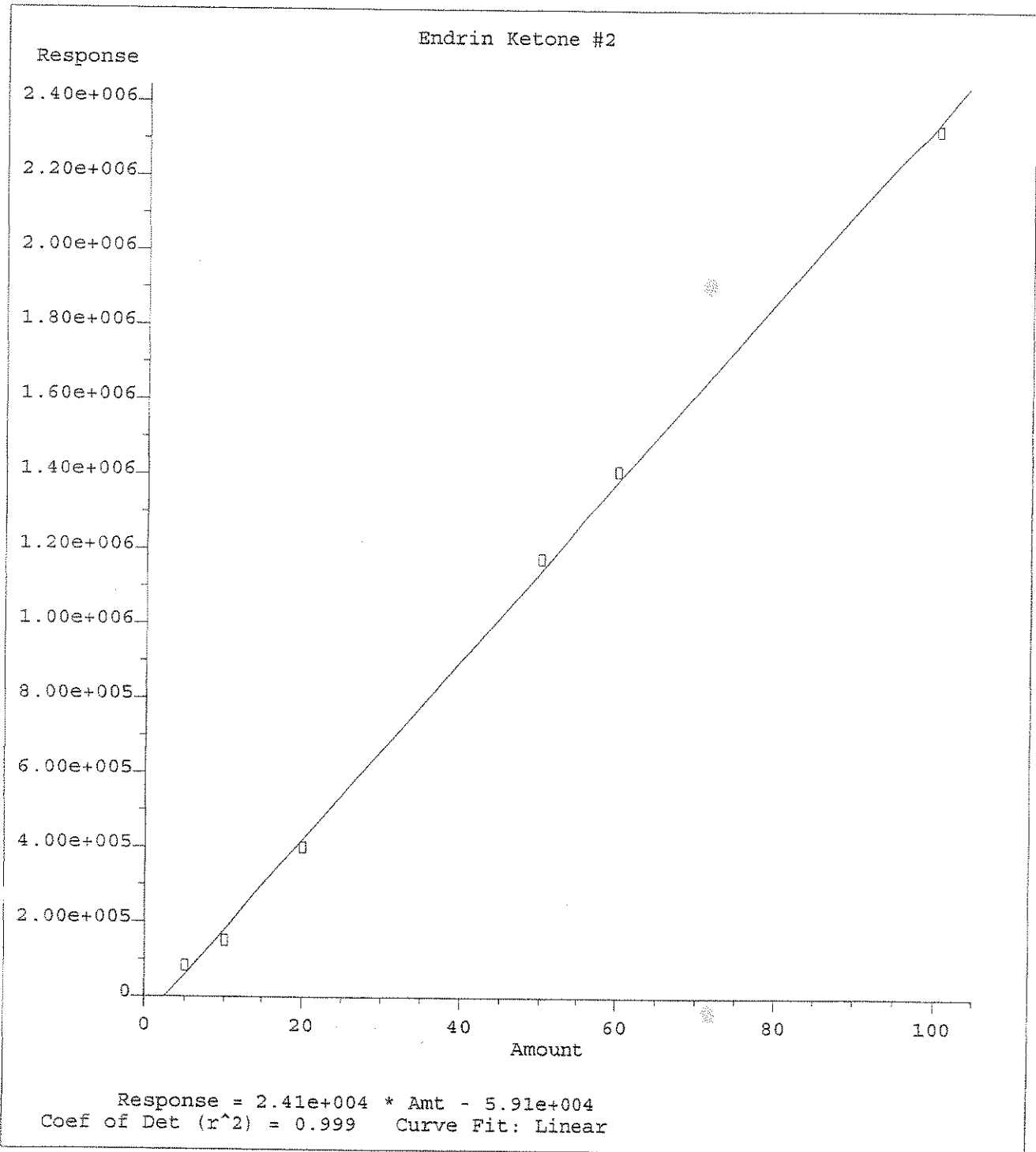




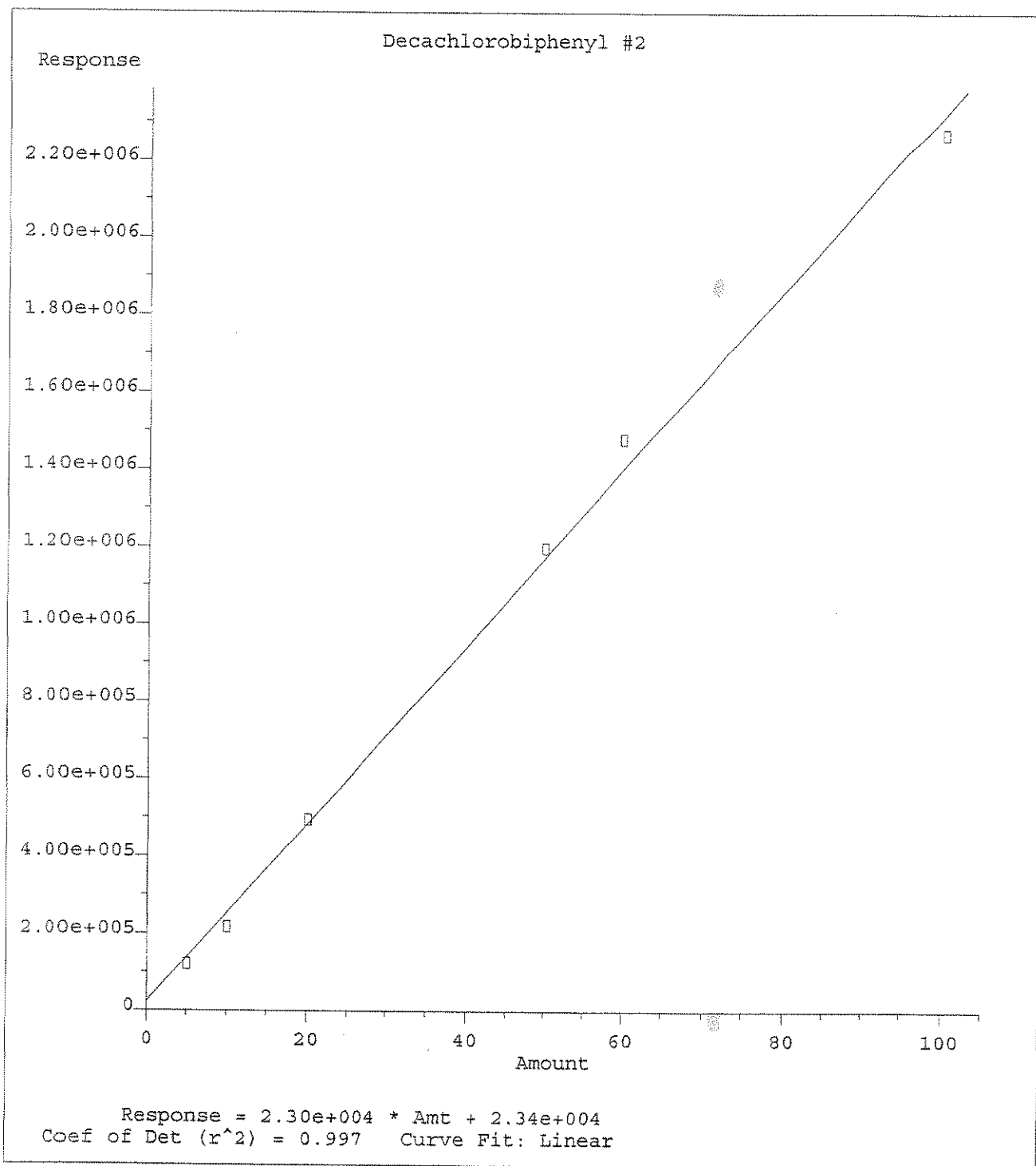
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Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

Quantitation Report

Signal #1 : Q:\SVOA\GC3\_GE\DATA\GE06216A\011F0101.D Vial: 11  
 Signal #2 : Q:\SVOA\GC3\_GE\DATA\GE06216A\011R0101.D\011R0101.D  
 Acq On : 21 Jun 06 07:45 PM Operator: [GC]1R0101.D\DATA.MS  
 Sample : PEST SS Inst : GC3  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 22 7:03 19106

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Title :  
 Last Update : Thu Jun 22 06:59:52 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 3 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

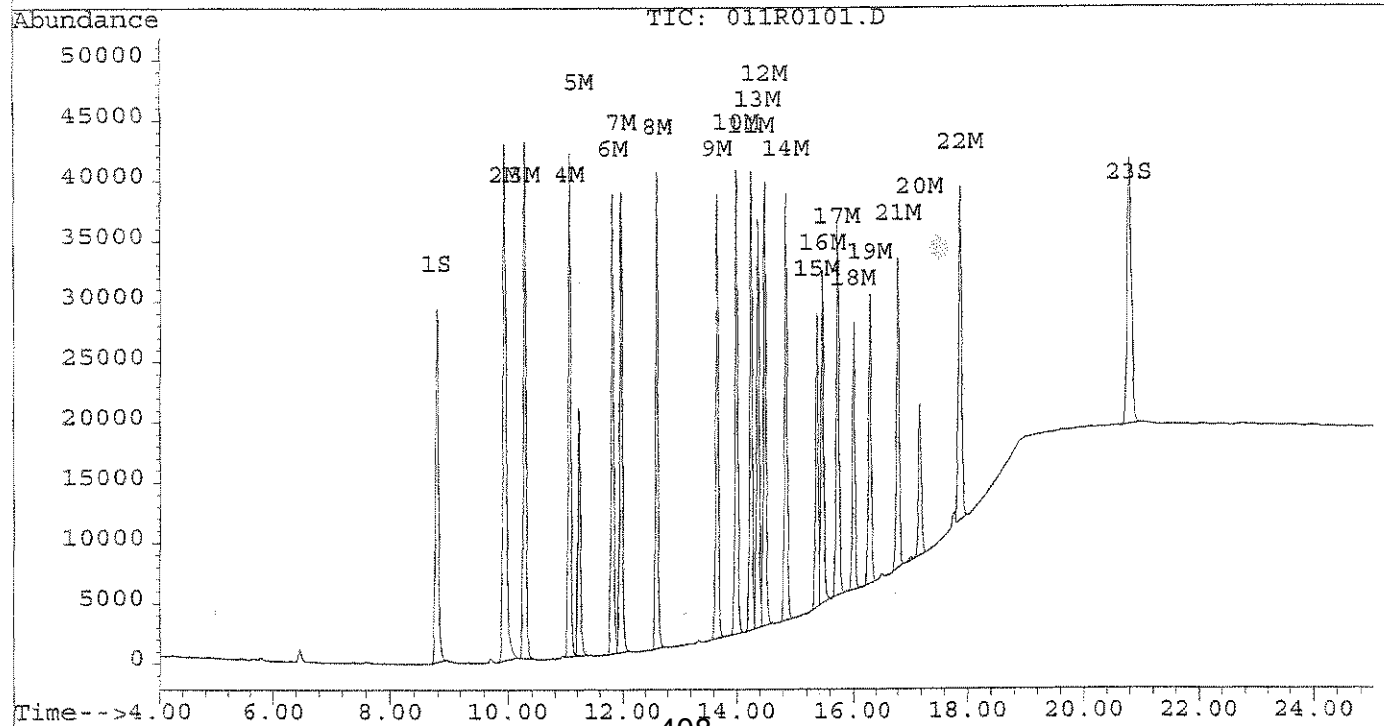
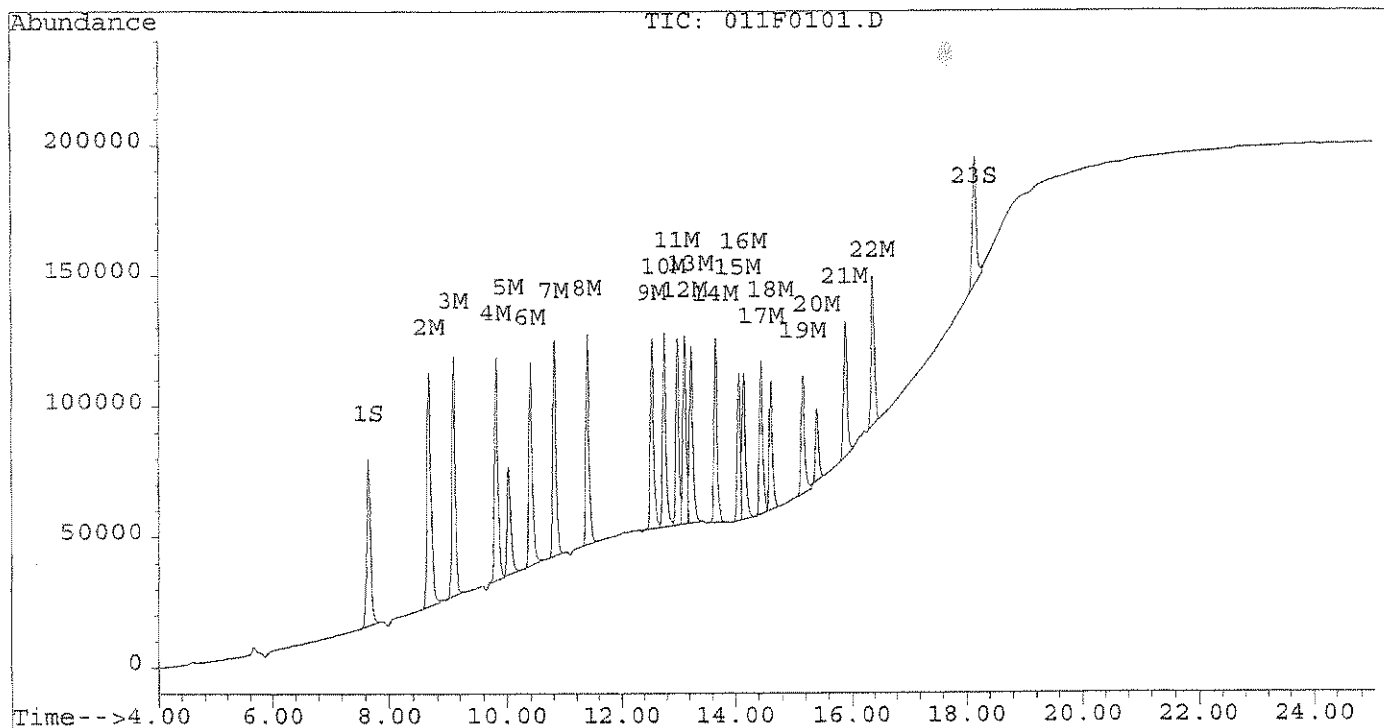
Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xylene	7.65	8.77	3022504	1096109	49.558	49.946
			Recovery	=	99.12%	99.89%
23) S Decachlorobiphenyl	18.15	20.79	2392763	1152419	53.173m	49.074
			Recovery	=	106.35%	98.15%
Target Compounds						
2) M Hexachlorobenzene	8.66	9.94	4282129	1670334	44.255m	44.502
3) M alpha-BHC	9.09	10.28	3769576	1352026	51.198	50.076
4) M gamma-BHC (Lindane)	9.81	11.05	3539166	1302712	51.668m	50.869
5) M beta-BHC	10.03	11.23	1791751	695928	50.993	51.169
6) M delta-BHC	10.40	11.82	3263505	1174206	48.301	47.289
7) M Heptachlor	10.81	11.97	3221835	1194454	51.755	51.293
8) M Aldrin	11.39	12.60	3205603	1199214	52.734m	52.090
9) M Heptachlor Epoxide	12.54	13.66	2982597	1138552	52.706	51.373
10) M gamma-Chlordane	12.76	13.99	3073616	1192528	53.319	53.151
11) M alpha-Chlordane	13.00	14.24	2821931	1175910	51.769	51.940
12) M 4,4'-DDE	13.13	14.48	2795482	1120704	51.461	51.239
13) M Endosulfan I	13.24	14.37	2855928	1053174	50.787	50.998
14) M Dieldrin	13.66	14.85	2766254	1075691	52.487	51.974
15) M Endrin	14.06	15.37	2052423	755329	50.421	50.046
16) M 4,4'-DDD	14.15	15.47	2345201	883833	51.494	51.229
17) M Endosulfan II	14.45	15.73	2339577	1009472	51.740	50.737
18) M 4,4'-DDT	14.62	16.01	1911817	679699	49.995	50.889
19) M Endrin Aldehyde	15.15	16.30	1977676	832412	54.652m	49.913
20) M Methoxychlor	15.40	17.17	1040357	452043	50.613	50.472
21) M Endosulfan Sulfate	15.88	16.80	2166999	904258	51.755m	50.617
22) M Endrin Ketone	16.37	17.87	2410352	1100366	49.264	48.142m

Quantitation Report

Signal #1 : Q:\SVOA\GC3\_GE\DATA\GE06216A\011F0101.D Vial: 11  
Signal #2 : Q:\SVOA\GC3\_GE\DATA\GE06216A\011R0101.D\011R0101.D  
Acq On : 21 Jun 06 07:45 PM Operator: [GC]1R0101.D\DATA.MS  
Sample : PEST SS Inst : GC3  
Misc : Multiplr: 1.00  
Quant Time: Jun 22 7:03 19106

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Title :  
Last Update : Thu Jun 22 06:59:52 2006  
Response via : Multiple Level Calibration

Volume Inj. : 3 uL  
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
Signal #1 Info : 0.53 Signal #2 Info : 0.53



## ANALYSIS SEQUENCE

BPG0288

Instrument: SVOAGC3

Calibration ID: UNASSIGNED. 8081EH

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0288-PEM1	QC		1		6E02036		
BPG0288-CCV1	QC		2		6F26099		
BF62333-BLK1	QC		3				
BF62333-BS1	QC		4				
BF62333-BSD1	QC		5				
0606372-03	C: 8082 ppb Low Level CLP	G	6				MACTEC Engineering & Consulting, Inc
BPG0288-CCV2	QC		7		6F26099		

Samples Loaded By

Date

Data Prepared By

Date

ESS LABORATORY  
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/23/06	25	6E062306-25	BF62315-81K1	SOPTEN	TCLP	SK
	26	26	↓ BST	✓		
	27	27	↓ BSD	✓		
	28	28	0606310-01	✓		
	29	29	02	✓		
	30	30	02MS	✓		
	31	31	03	✓		
	32	32	04	✓		
	33	33	05	✓		
	34	34	06	✓		
	35	35	07	✓		
	11	11	Pest SD CL	✓	6F23069 2:29 AM	
6/23/06	11	11	Pest SD CL	SOMER		SK
6/26/06	1	6E062606-01	Prime			SK
	2	02	Pem	✓	6E02036 09:34 AM	
	3	03	Pest SD CL	✓	6F26099 CCVI 10:02 AM	
	3	03	Pest SD CL		↓ 099	
	4	04	Chlor 250	✓	6F26100	
	5	05	BF62333-81K1	✓		
	6	06	↓ BST	✓		
	7	07	↓ BSD	✓		
	8	08	0606372-03	✓		
	9	09	BF62329-81K1	✓		
	10	10	↓ BST	✓		
	11	11	↓ BSD	✓		
6/26/06	12	6E062606-12	0606373-01	SOMER		SK

CONTROL NUMBER 60.0012-0602A

PAGE \_\_\_\_\_



ESS LABORATORY  
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/26/06	13	6E062546-13	0606373-03	✓ 8081EH		SIF
	14	14	05	✓		
	15	15	07	✓		
	16	16	09	✓	(R2)	
	17	17	12	✓		
	18	18	14	✓		
	19	19	16	✓		
	20	20	16MSD	✓		
	21	21	↓ 16MSD	✓		
	1	1	Hexane			
	2	2	Pem	✓		
	3	3	Pest SD CC	✓	7:53PM	
	3	3	Pest SD CC		6F26099 (1/2) 8:21PM	
	4	4	Chlor SD	✓	↓ 099	
	22	22	0606373-18	✓	6F26100	
	23	23	20	✓		
	24	24	0606374-01	✓		
	25	25	03	✓		
	26	26	05	✓		
	27	27	07	✓		
	28	28	09	✓		
	29	29	11	✓		
	30	30	13	✓		
	31	31	↓ 15	✓		
	32	32	Hexane			
	03	03	Pest SD CC	✓	6F26099	
	03	03	Pest SD CC	✓	↓ 099	2:25AM
	04	6E062400-04	Chlor SD	✓ 8081EH	6F26100	2:58AM
						SIF

CONTROL NUMBER 60.0012-0602A

Quantitation Report

Signal #1 : Q:\SVOA\GC3\_GE\DATA\GE062606\002F0101.D Vial: 2  
 Signal #2 : Q:\SVOA\GC3\_GE\DATA\GE062606\002F0101.D\002R0101.D  
 Acq On : 26 Jun 06 09:34 AM Operator: [GC]2R0101.D\DATA.MS  
 Sample : PEM Inst : GC3  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 26 11:05 19106

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Title :  
 Last Update : Thu Jun 22 06:59:52 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 3 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xylen	7.63	8.75	2963709	1044618	48.596	47.629
			Recovery	=	97.19%	95.26%
23) S Decachlorobiphenyl	18.12	20.76	1725777	852478	38.197m	36.037
			Recovery	=	76.39%	72.07%
Target Compounds						
2) M Hexachlorobenzene	0.00	0.00	0	0	N.D.	N.D.
3) M alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
4) M gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.d	N.D.d
5) M beta-BHC	0.00	0.00	0	0	N.D.	N.D.
6) M delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7) M Heptachlor	0.00	0.00	0	0	N.D.d	N.D.d
8) M Aldrin	0.00	0.00	0	0	N.D.	N.D.
9) M Heptachlor Epoxide	0.00	0.00	0	0	N.D.d	N.D.d
10) M gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11) M alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
12) M 4,4'-DDE	0.00	0.00	0	0	N.D.d	N.D.d
13) M Endosulfan I	0.00	0.00	0	0	N.D.d	N.D.d
14) M Dieldrin	0.00	0.00	0	0	N.D.d	N.D.d
15) M Endrin	14.04	15.35	4749513	1601775	116.206m	103.059m
16) M 4,4'-DDD	14.16	15.47	153854	85679	4.156m	7.157m#
17) M Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18) M 4,4'-DDT	14.60	15.99	4527356	1558222	116.384	109.877
19) M Endrin Aldehyde	15.13	16.25	15917	7514	1.377m	0.887m#
20) M Methoxychlor	0.00	0.00	0	0	N.D.d	N.D.d
21) M Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22) M Endrin Ketone	16.32	17.81	249218	87351	6.222	6.082m

$$\Sigma \frac{265135}{5814648} = 5.28\%$$

$$DDT \frac{153854}{4681210} = 3.29\%$$

$$\Sigma \frac{94865}{1696640} = 5.59\%$$

$$DDT \frac{85679}{1643901} = 5.21\%$$

Signal #1 : Q:\SVOA\GC3\_GE\DATA\GE062606\003F0101.D Vial: 3  
 Signal #2 : Q:\SVOA\GC3\_GE\DATA\GE062606\003F0101.D\003R0101.D  
 Acq On : 26 Jun 06 10:02 AM Operator: [GC]3R0101.D\DATA.MS  
 Sample : PEST 50CC Inst : GC3  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 26 11:01 19106

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Title :  
 Last Update : Thu Jun 22 06:59:52 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 3 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xylen	7.63	8.75	3054860	1074785	50.087	48.987
			Recovery	=	100.17%	97.97%
23) S Decachlorobiphenyl	18.12	20.76	2418639	1204160	53.754m	51.323
			Recovery	=	107.51%	102.65%
Target Compounds						
2) M Hexachlorobenzene	8.64	9.92	4991605	1893038	51.884m	50.571
3) M alpha-BHC	9.07	10.25	3820067	1273884	51.867m	47.423
4) M gamma-BHC (Lindane)	9.79	11.03	3612633	1240020	52.722	48.580
5) M beta-BHC	10.01	11.21	1871221	675317	53.248	49.683
6) M delta-BHC	10.38	11.80	3526055	1156415	52.065	46.629
7) M Heptachlor	10.78	11.95	3324889	1145725	53.385	49.309
8) M Aldrin	11.37	12.58	3250591	1118788	53.473m	48.751
9) M Heptachlor Epoxide	12.52	13.64	3085037	1105882	54.525	49.927
10) M gamma-Chlordane	12.74	13.97	3145800	1138148	54.571	50.776
11) M alpha-Chlordane	12.98	14.22	2964795	1153008	54.424	50.942
12) M 4,4'-DDE	13.11	14.46	2814013	1108442	51.804	50.697
13) M Endosulfan I	13.22	14.35	3100120	1035266	55.063	50.160
14) M Dieldrin	13.64	14.82	2821658	1010728	53.532	48.978
15) M Endrin	14.04	15.35	2130985	700476	52.337	46.611
16) M 4,4'-DDD	14.13	15.45	2558099	869973	56.093	50.463
17) M Endosulfan II	14.43	15.70	2446948	960683	54.086m	48.297
18) M 4,4'-DDT	14.60	15.99	1886999	612382	49.365	46.369
19) M Endrin Aldehyde	15.13	16.27	1963871	867185	54.277	51.980
20) M Methoxychlor	15.38	17.15	1005703	423359	48.997	47.503
21) M Endosulfan Sulfate	15.86	16.78	2185776	885965	52.200m	49.620
22) M Endrin Ketone	16.34	17.84	2700680	1160730	55.047	50.649m

Signal #1 : Q:\SVOA\GC3\_GE\DATA\GE062606\003F0301.D Vial: 3  
 Signal #2 : Q:\SVOA\GC3\_GE\DATA\GE062606\003F0301.D\003R0301.D  
 Acq On : 26 Jun 06 08:21 PM Operator: [GC]3R0301.D\DATA.MS  
 Sample : PEST 50CC Inst : GC3  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 27 7:46 19106

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Title :  
 Last Update : Thu Jun 22 06:59:52 2006  
 Response via : Multiple Level Calibration

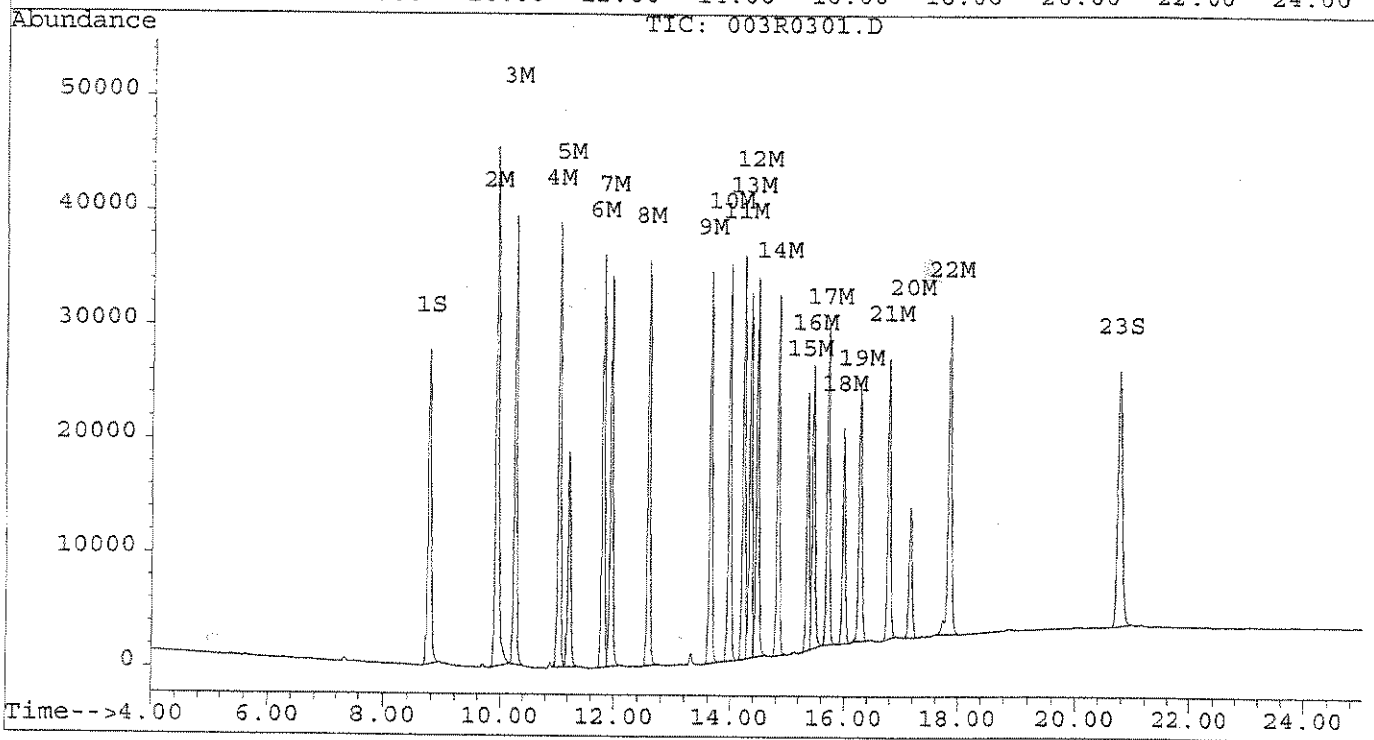
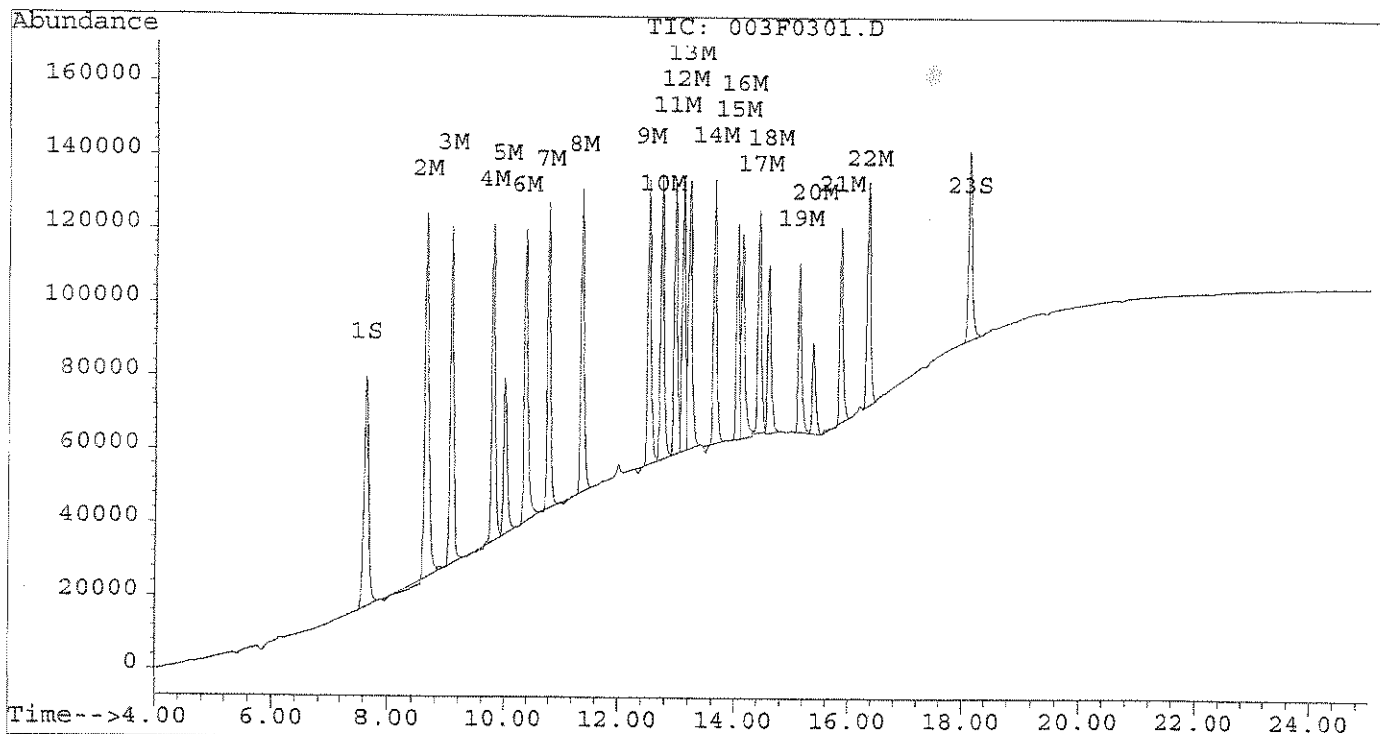
Volume Inj. : 3 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xylen	7.63	8.75	3121102	1075752	51.170	49.030
			Recovery	=	102.34%	98.06%
23) S Decachlorobiphenyl	18.12	20.76	2456384	1215549	54.601m	51.818
			Recovery	=	109.20%	103.64%
Target Compounds						
2) M Hexachlorobenzene	8.64	9.92	4696317	1908580	48.709	50.995
3) M alpha-BHC	9.07	10.25	3923843	1287121	53.241	47.872
4) M gamma-BHC (Lindane)	9.79	11.03	3633481	1262185	53.021	49.389
5) M beta-BHC	10.01	11.21	1914237	682434	54.469	50.196
6) M delta-BHC	10.38	11.80	3606975	1172619	53.225	47.230
7) M Heptachlor	10.78	11.94	3314792	1108974	53.225	47.812
8) M Aldrin	11.37	12.58	3274178	1127820	53.861	49.126
9) M Heptachlor Epoxide	12.52	13.63	3079181	1109818	54.421	50.101
10) M gamma-Chlordane	12.74	13.97	3146183	1140112	54.577	50.862
11) M alpha-Chlordane	12.98	14.22	2928689	1154321	53.753	51.000
12) M 4,4'-DDE	13.11	14.46	2817614	1111081	51.870	50.814
13) M Endosulfan I	13.22	14.35	3116542	1037851	55.351	50.281
14) M Dieldrin	13.64	14.82	2774920	1012483	52.650	49.059
15) M Endrin	14.04	15.35	2178394	716365	53.494	47.606
16) M 4,4'-DDD	14.13	15.45	2555283	861173	56.032	49.977
17) M Endosulfan II	14.42	15.70	2504265	959082	55.339m	48.217
18) M 4,4'-DDT	14.60	15.98	1842492	613840	48.236	46.467
19) M Endrin Aldehyde	15.13	16.27	1926328	837940	53.257	50.242
20) M Methoxychlor	15.38	17.15	1020574	420929	49.690	47.252
21) M Endosulfan Sulfate	15.86	16.78	2181536	884263	52.099	49.527
22) M Endrin Ketone	16.34	17.84	2610257	1215126	53.246	52.907

Signal #1 : Q:\SVOA\GC3\_GE\DATA\GE062606\003F0301.D Vial: 3  
 Signal #2 : Q:\SVOA\GC3\_GE\DATA\GE062606\003R0301.D\003R0301.D  
 Acq On : 26 Jun 06 08:21 PM Operator: [GC]3R0301.D\DATA.MS  
 Sample : PEST 50CC Inst : GC3  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 27 7:46 19106

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Title :  
 Last Update : Thu Jun 22 06:59:52 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 3 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53



# Pesticides Logbooks

# ESS Organic Preparation Logbook

0606346 0606372

Project #: 0606334 Surrogate ID# A6E09078 Matrix Spike ID# A6E09078 Analytical Matrix: Ag  
 Prep Date: 6/23/06 Batch ID: PEFE0606333 Extraction Time: Start: 7:30  
 Extraction Method: 370 Finish: \_\_\_\_\_

Split Extraction\*  
 \* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH<sub>2</sub>Cl<sub>2</sub>) is transferred as Volume 2.

ESS ID	Vol (ml) Wt (g)	Surrogate (ul of ml)	Matrix Spike (ul or ml)	Extract Vol (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Vol #1 (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Vol #2 (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Date	Bath Temp (C)	pH	Discard	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
PEFE0606333-01	1000	0.5	NA	5	5	NA	6/24/06	40	5-9		(Conc. to 1ml for low PCB)	MM	GA	JLS
PEFE0606333-02	1000	0.5	0.5D	5	5				5-9					
PEFE0606333-03	1000	0.5	0.5D	5	5				5-9					
PEFE0606333-04	1000	0.5	NA	5	5				5-9					
PEFE0606333-05	1000	0.5		5	5				5-9					
PEFE0606333-06	1000	0.5		5	5				5-9					
PEFE0606333-07	1000	0.5	NA	5	5				5-9					
PEFE0606333-08	1000	0.5	0.5R	5	5				5-9		(Conc. for low PCB to 1.0ml)	MM	GA	JLS
PEFE0606333-09	1000	0.5	0.5R	5	5	NA	6/24/06	40	5-9					

Analysis Performed  
 PCB  
 B/N SVOA  
 SVOA  
 LL PAH  
 PEST  
 TPH/GC  
 BIS-2  
 PAH

Acid Washed  Y  N  
 H<sub>2</sub>SO<sub>4</sub> ID# 12210623064  
 Cu Cleaned: Y  N  
 Cu ID# NA Florisil: Y  N Silica Column/Carbon prep:  N  
 Lot# NA Lot# 01808

CH<sub>2</sub>Cl<sub>2</sub> lot# 102473 NaOH ID# NA  
 Hexane lot# 60914 Na<sub>2</sub>SO<sub>4</sub> ID# 12210623064  
 Acetone lot# NA

Prepared By: MM Glasswool: PEFE0606333 Method #(s): 8081 / 8082  
 \*\*Check off column if entire sample used and bottle discarded.

PCB  
Data Package

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# PCB Sample Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW27  
Date Sampled: 06/22/06 12:00  
Percent Solids: N/A  
Initial Volume: 1000  
Final Volume: 1  
Extraction Method: 3510C

ESS Laboratory Work Order: 0606372  
ESS Laboratory Sample ID: 0606372-03  
Sample Matrix: Surface Water  
Analyst: SEP  
Prepared: 06/23/06

### 8082 Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Aroclor 1016	ND	ug/L	0.100	1	06/28/06
Aroclor 1221	ND	ug/L	0.100	1	06/28/06
Aroclor 1232	ND	ug/L	0.100	1	06/28/06
Aroclor 1242	ND	ug/L	0.100	1	06/28/06
Aroclor 1248	ND	ug/L	0.100	1	06/28/06
Aroclor 1254	ND	ug/L	0.100	1	06/28/06
Aroclor 1260	ND	ug/L	0.100	1	06/28/06
Aroclor 1262	ND	ug/L	0.100	1	06/28/06
Aroclor 1268	ND	ug/L	0.100	1	06/28/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	100 %		40-140
Surrogate: Decachlorobiphenyl [2C]	102 %		40-140
Surrogate: Tetrachloro-m-xylene	79 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	85 %		40-140

PCB  
Quality Control Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606372

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8081A Organochlorine Pesticides

##### Batch BF62722 - 3510C

Surrogate: Tetrachloro-m-xylene [2C]      0.196      ug/L      0.250      78      30-150

#### 8082 Polychlorinated Biphenyls (PCB)

##### Batch BF62333 - 3510C

##### Blank

roclor 1016	ND	0.100	ug/L
roclor 1016 (1)	ND	0.100	ug/L
roclor 1016 (1) [2C]	ND	0.100	ug/L
roclor 1016 (2)	ND	0.100	ug/L
roclor 1016 (2) [2C]	ND	0.100	ug/L
roclor 1016 (3)	ND	0.100	ug/L
roclor 1016 (3) [2C]	ND	0.100	ug/L
roclor 1016 (4)	ND	0.100	ug/L
roclor 1016 (4) [2C]	ND	0.100	ug/L
roclor 1016 (5)	ND	0.100	ug/L
roclor 1016 (5) [2C]	ND	0.100	ug/L
roclor 1221	ND	0.100	ug/L
roclor 1221 (1)	ND	0.100	ug/L
roclor 1221 (1) [2C]	ND	0.100	ug/L
roclor 1221 (2)	ND	0.100	ug/L
roclor 1221 (2) [2C]	ND	0.100	ug/L
roclor 1221 (3)	ND	0.100	ug/L
roclor 1221 (3) [2C]	ND	0.100	ug/L
roclor 1221 (4)	ND	0.100	ug/L
roclor 1221 (4) [2C]	ND	0.100	ug/L
roclor 1221 (5)	ND	0.100	ug/L
roclor 1221 (5) [2C]	ND	0.100	ug/L
roclor 1232	ND	0.100	ug/L
roclor 1232 (1)	ND	0.100	ug/L
roclor 1232 (1) [2C]	ND	0.100	ug/L
roclor 1232 (2)	ND	0.100	ug/L
roclor 1232 (2) [2C]	ND	0.100	ug/L
roclor 1232 (3)	ND	0.100	ug/L
roclor 1232 (3) [2C]	ND	0.100	ug/L
roclor 1232 (4)	ND	0.100	ug/L
roclor 1232 (4) [2C]	ND	0.100	ug/L
roclor 1232 (5)	ND	0.100	ug/L
roclor 1232 (5) [2C]	ND	0.100	ug/L
roclor 1242	ND	0.100	ug/L
roclor 1242 (1)	ND	0.100	ug/L
roclor 1242 (1) [2C]	ND	0.100	ug/L
roclor 1242 (2)	ND	0.100	ug/L
roclor 1242 (2) [2C]	ND	0.100	ug/L
roclor 1242 (3)	ND	0.100	ug/L
roclor 1242 (3) [2C]	ND	0.100	ug/L
roclor 1242 (4)	ND	0.100	ug/L

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606372

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8082 Polychlorinated Biphenyls (PCB)

##### Batch BF62333 - 3510C

Aroclor 1242 (4) [2C]	ND	0.100	ug/L							
Aroclor 1242 (5)	ND	0.100	ug/L							
Aroclor 1242 (5) [2C]	ND	0.100	ug/L							
Aroclor 1248	ND	0.100	ug/L							
Aroclor 1248 (1)	ND	0.100	ug/L							
Aroclor 1248 (1) [2C]	ND	0.100	ug/L							
Aroclor 1248 (2)	ND	0.100	ug/L							
Aroclor 1248 (2) [2C]	ND	0.100	ug/L							
Aroclor 1248 (3)	ND	0.100	ug/L							
Aroclor 1248 (3) [2C]	ND	0.100	ug/L							
Aroclor 1248 (4)	ND	0.100	ug/L							
Aroclor 1248 (4) [2C]	ND	0.100	ug/L							
Aroclor 1248 (5)	ND	0.100	ug/L							
Aroclor 1248 (5) [2C]	ND	0.100	ug/L							
Aroclor 1254	ND	0.100	ug/L							
Aroclor 1254 (1)	ND	0.100	ug/L							
Aroclor 1254 (1) [2C]	ND	0.100	ug/L							
Aroclor 1254 (2)	ND	0.100	ug/L							
Aroclor 1254 (2) [2C]	ND	0.100	ug/L							
Aroclor 1254 (3)	ND	0.100	ug/L							
Aroclor 1254 (3) [2C]	ND	0.100	ug/L							
Aroclor 1254 (4)	ND	0.100	ug/L							
Aroclor 1254 (4) [2C]	ND	0.100	ug/L							
Aroclor 1254 (5)	ND	0.100	ug/L							
Aroclor 1254 (5) [2C]	ND	0.100	ug/L							
Aroclor 1260	ND	0.100	ug/L							
Aroclor 1260 (1)	ND	0.100	ug/L							
Aroclor 1260 (1) [2C]	ND	0.100	ug/L							
Aroclor 1260 (2)	ND	0.100	ug/L							
Aroclor 1260 (2) [2C]	ND	0.100	ug/L							
Aroclor 1260 (3)	ND	0.100	ug/L							
Aroclor 1260 (3) [2C]	ND	0.100	ug/L							
Aroclor 1260 (4)	ND	0.100	ug/L							
Aroclor 1260 (4) [2C]	ND	0.100	ug/L							
Aroclor 1260 (5)	ND	0.100	ug/L							
Aroclor 1260 (5) [2C]	ND	0.100	ug/L							
Aroclor 1262	ND	0.100	ug/L							
Aroclor 1262 (1)	ND	0.100	ug/L							
Aroclor 1262 (1) [2C]	ND	0.100	ug/L							
Aroclor 1262 (2)	ND	0.100	ug/L							
Aroclor 1262 (2) [2C]	ND	0.100	ug/L							
Aroclor 1262 (3)	ND	0.100	ug/L							
Aroclor 1262 (3) [2C]	ND	0.100	ug/L							
Aroclor 1262 (4)	ND	0.100	ug/L							
Aroclor 1262 (4) [2C]	ND	0.100	ug/L							
Aroclor 1262 (5)	ND	0.100	ug/L							
Aroclor 1262 (5) [2C]	ND	0.100	ug/L							

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606372

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8082 Polychlorinated Biphenyls (PCB)

##### Batch BF62333 - 3510C

Aroclor 1268	ND	0.100	ug/L							
Aroclor 1268 (1)	ND	0.100	ug/L							
Aroclor 1268 (1) [2C]	ND	0.100	ug/L							
Aroclor 1268 (2)	ND	0.100	ug/L							
Aroclor 1268 (2) [2C]	ND	0.100	ug/L							
Aroclor 1268 (3)	ND	0.100	ug/L							
Aroclor 1268 (3) [2C]	ND	0.100	ug/L							
Aroclor 1268 (4)	ND	0.100	ug/L							
Aroclor 1268 (4) [2C]	ND	0.100	ug/L							
Aroclor 1268 (5)	ND	0.100	ug/L							
Aroclor 1268 (5) [2C]	ND	0.100	ug/L							

Surrogate: Decachlorobiphenyl	0.272		ug/L	0.250		109	40-140			
Surrogate: Decachlorobiphenyl [2C]	0.274		ug/L	0.250		110	40-140			
Surrogate: Tetrachloro-m-xylene	0.236		ug/L	0.250		94	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.241		ug/L	0.250		96	40-140			

##### CS

Aroclor 1016	4.80	0.500	ug/L	10.0		48	40-140			
Aroclor 1260	4.84	0.500	ug/L	10.0		48	40-140			

Surrogate: Decachlorobiphenyl	0.262		ug/L	0.250		105	40-140			
Surrogate: Decachlorobiphenyl [2C]	0.263		ug/L	0.250		105	40-140			
Surrogate: Tetrachloro-m-xylene	0.226		ug/L	0.250		90	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.225		ug/L	0.250		90	40-140			

##### CS Dup

Aroclor 1016	4.84	0.500	ug/L	10.0		48	40-140	0.8	50	
Aroclor 1260	4.99	0.500	ug/L	10.0		50	40-140	3	50	

Surrogate: Decachlorobiphenyl	0.266		ug/L	0.250		106	40-140			
Surrogate: Decachlorobiphenyl [2C]	0.265		ug/L	0.250		106	40-140			
Surrogate: Tetrachloro-m-xylene	0.228		ug/L	0.250		91	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.226		ug/L	0.250		90	40-140			

#### 8260B Volatile Organic Compounds

##### Batch BF62611 - 5030B

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
1,1,2-Tetrachloroethane	ND	1.0	ug/L							
1,1-Trichloroethane	ND	1.0	ug/L							
1,2,2-Tetrachloroethane	ND	0.5	ug/L							
1,2-Trichloroethane	ND	1.0	ug/L							
1-Dichloroethane	ND	1.0	ug/L							
1-Dichloroethene	ND	1.0	ug/L							
1-Dichloropropene	ND	2.0	ug/L							
2,3-Trichlorobenzene	ND	1.0	ug/L							
2,3-Trichloropropane	ND	1.0	ug/L							
2,4-Trichlorobenzene	ND	1.0	ug/L							
2,4-Trimethylbenzene	ND	1.0	ug/L							

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# PCB Calibration Data

## ANALYSIS SEQUENCE

BPG0242

Instrument: SVOAGC5

Calibration ID: UNASSIGNED 5082CX

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0242-CAL1	QC		1		6F14043		
BPG0242-CAL2	QC		2		6F14044		
BPG0242-CAL3	QC		3		6F14045		
BPG0242-CAL4	QC		4		6F14046		
BPG0242-CAL5	QC		5		6F14047		
BPG0242-CAL6	QC		6		6F14048		
BPG0242-CAL7	QC		7		6F14051		
BPG0242-CAL8	QC		8		6F14053		
BPG0242-CAL9	QC		9		6F14055		
BPG0242-CALA	QC		10		6F14057		
BPG0242-CALB	QC		11		6F14059		
BPG0242-CALC	QC		12		6F14061		
BPG0242-CALD	QC		13		6F14063		
BPG0242-SCV1	QC		14		6F14049		
BPG0242-SCV2	QC		15		6F14052		
BPG0242-SCV3	QC		16		6F14054		
BPG0242-SCV4	QC		17		6F14056		
BPG0242-SCV5	QC		18		6F14058		
BPG0242-SCV6	QC		19		6F14060		
BPG0242-SCV7	QC		20		6F14062		
BPG0242-SCV8	QC		21		6F14064		

Samples Loaded By

Date

Data Processed By

Date



# ESS LABORATORY GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II

Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/4/11	91	66061105-91	166001	8000W	6FL0058	M
	92	-92	166001		59	
	93	-93	166001		60	
	94	-94	166001		61	
6/11/11	91	66061109-91	166001	8000W	6FL0058 1200 High Sample on 02/11	K
6/12/11	96	66061106-96	166001	8000W		M
	97	-97	166001		6FL3008	
	98	-98	166001		59	
	99	-99	166001		60	
6/12/11	100	66061100-100	166001	8000W	6FL3061	M
6/13/11	96	66061101-96	166001	8000W		M
	97	-97	166001		6FL23058	
	98	-98	166001		59	
	99	-99	166001		60	
	100	-100	166001		61	
6/13/11	97	66061101-97	166001	8000W	6FL3058	M
6/23/11	1	66061106A-01	166001	8000W	6FL23058	M
	1	-01	166001		6FL23058	
	2	-02	166050		6FL4073 CAL1	
	3	-03	100		49 2	
	4	-04	500		45 3	
	5	-05	1000		46 4	
	6	-06	1600		47 5	
	7	-07	2000		48 CAL 6	
	8	-08	55		49 SCV1	
	9	-09	55		4950 4/23/11	
	10	-10	1201		51 CAL 7	
	11	-11	1201 51		52 SCV2	
	12	-12	1232		53 CAL 8	
6/23/11	13	66061106A-13	123251	8000W	51 SCV3	M

# ESS LABORATORY GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II

Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/23/06	17	68762306A-17	1241	✓ <del>TOOL</del>	6740 FT CAL9	M
	18	-18	1242	✓	56 SCV 4	
	16	-16	1241	✓	57 CAL A	
	17	-17	1245	✓	58 SCV 5	
	18	-18	1247	✓	59 CAL B	
	19	-19	1249	✓	60 SCV 6	
	20	-20	1242	✓	61 CAL C	
	21	-21	1243	✓	62 SCV 7	
	22	-22	1268	✓	63 CAL D	
6/23/06	23	68762306B-23	1268	✓ <del>TOOL</del>	6740 67 SCV 8	
6/24/06	1	68062606-01	1104	✓ <del>TOOL</del>		
	2	-02	16604	✓	6730 FT INT: 1035	
	3	-03	12424	✓	59	
	4	-04	12424	✓	60	
	5	-05	12424	✓	61	
	6	-06	BF62115-0116	✓		W/changed
	7	-07	-031	✓		
	8	-08	-0301	✓		
	9	-09	0606332-01	✓	60	
	10	-10	-02	✓	60 ✓ 42 R215	
	11	-11	-03	✓	42 ✓ 60 ✓ 53 ✓	
	12	-12	-04	✓	420 ✓ 60 ✓ 42 ✓	
	13	-13	-04M1	✓	420	
	14	-14	-04M10	✓	420	
	15	-15	-04M1	✓		
	16	-16	-04M11	✓		
	17	-17	0606332-02	✓	45 42	W/changed
	18	-18	1104	✓		
	19	-19	16604	✓	6730 FT	
6/24/06	20	06062606-20	1241	✓ <del>TOOL</del>	67	N

Response Factor Report GC5

Method : Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Title :  
 Last Update : Mon Jul 10 09:21:55 2006  
 Response via : Initial Calibration

Calibration Files

500 =004F0201.D 2000 =007F0201.D 50 =002F0201.D  
 100 =003F0201.D 1000 =002F0101.D 1600 =006F0201.D

Compound	500	2000	50	100	1000	1600	Avg	%RSD
1) S Tetrachloro-m-xylene	56.2	53.1	65.2	63.2	60.6	52.6	58.5	E3 9.10
2) LM1 AR1016 (1)	1.2	1.1	1.4	1.3	1.2	1.1	1.2	E3 10.36
3) LM1 AR1016 (2)	2.2	1.7	3.0	3.1	2.0	1.8	2.3	E3 25.30
4) LM1 AR1016 (3)	4.1	3.3	6.1	6.0	3.9	3.4	4.5	E3 28.19
5) LM1 AR1016 (4)	1.1	1.0	1.4	1.4	1.1	1.0	1.2	E3 17.09
6) LM1 AR1016 (5)	1.1	0.8	0.9	0.9	1.0	0.9	0.9	E3 8.44
7) LM2 AR1260 (1)	3.1	2.3	4.4	4.2	2.7	2.4	3.2	E3 29.37
8) LM2 AR1260 (2)	7.3	5.8	8.8	9.3	6.8	6.0	7.4	E3 19.39
9) LM2 AR1260 (3)	2.5	2.0	2.7	2.8	2.4	2.1	2.4	E3 13.19
10) LM2 AR1260 (4)	940.1	811.8	984.3	939.8	962.9	833.3	912.0	7.85
11) LM2 AR1260 (5)	1.6	1.3	2.1	2.0	1.5	1.5	1.7	E3 17.50
12) S Decachlorobiphenyl	55.8	41.9	77.4	69.3	50.3	43.5	56.4	E3 25.39

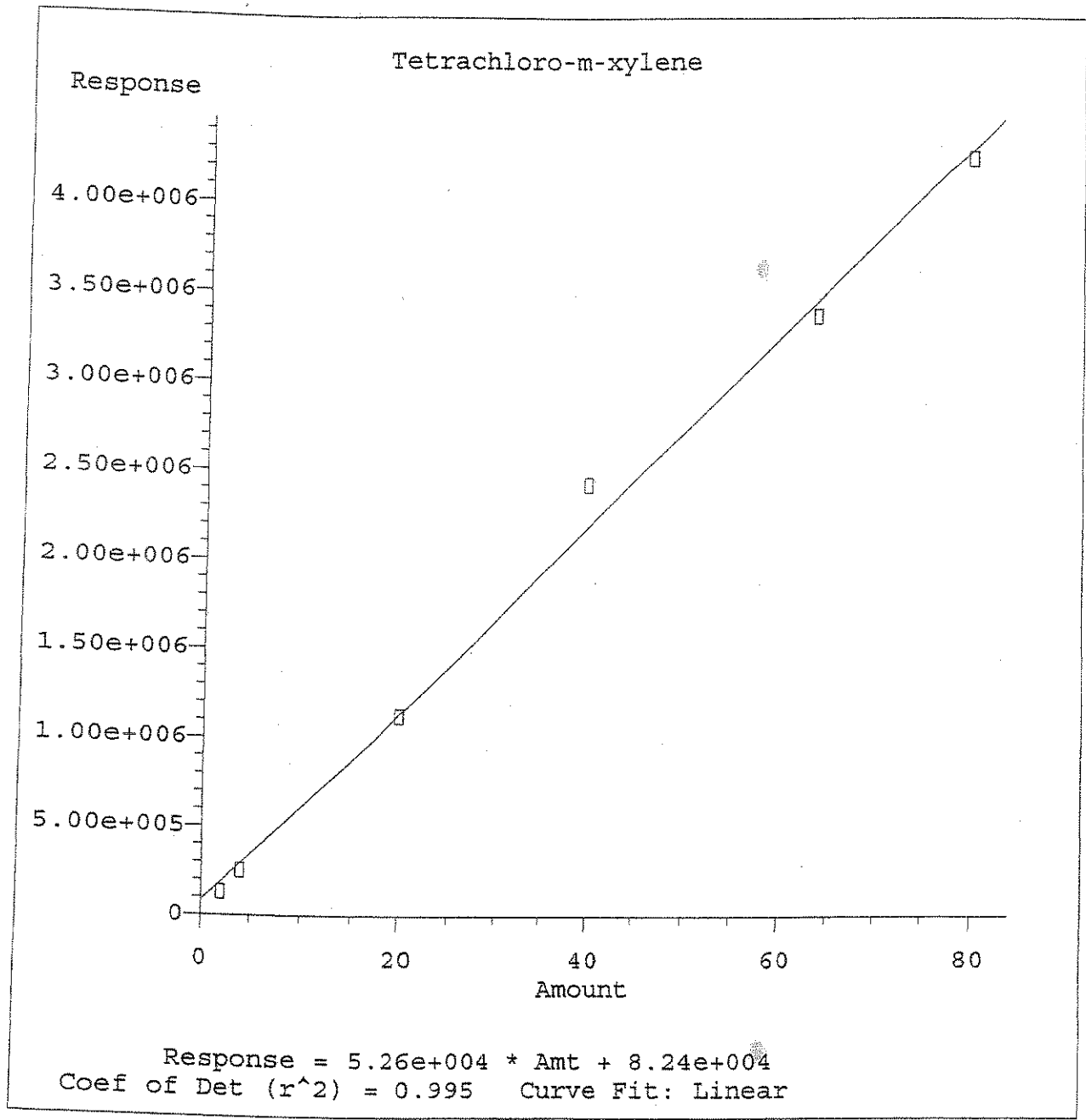
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Signal #2 Calibration Files

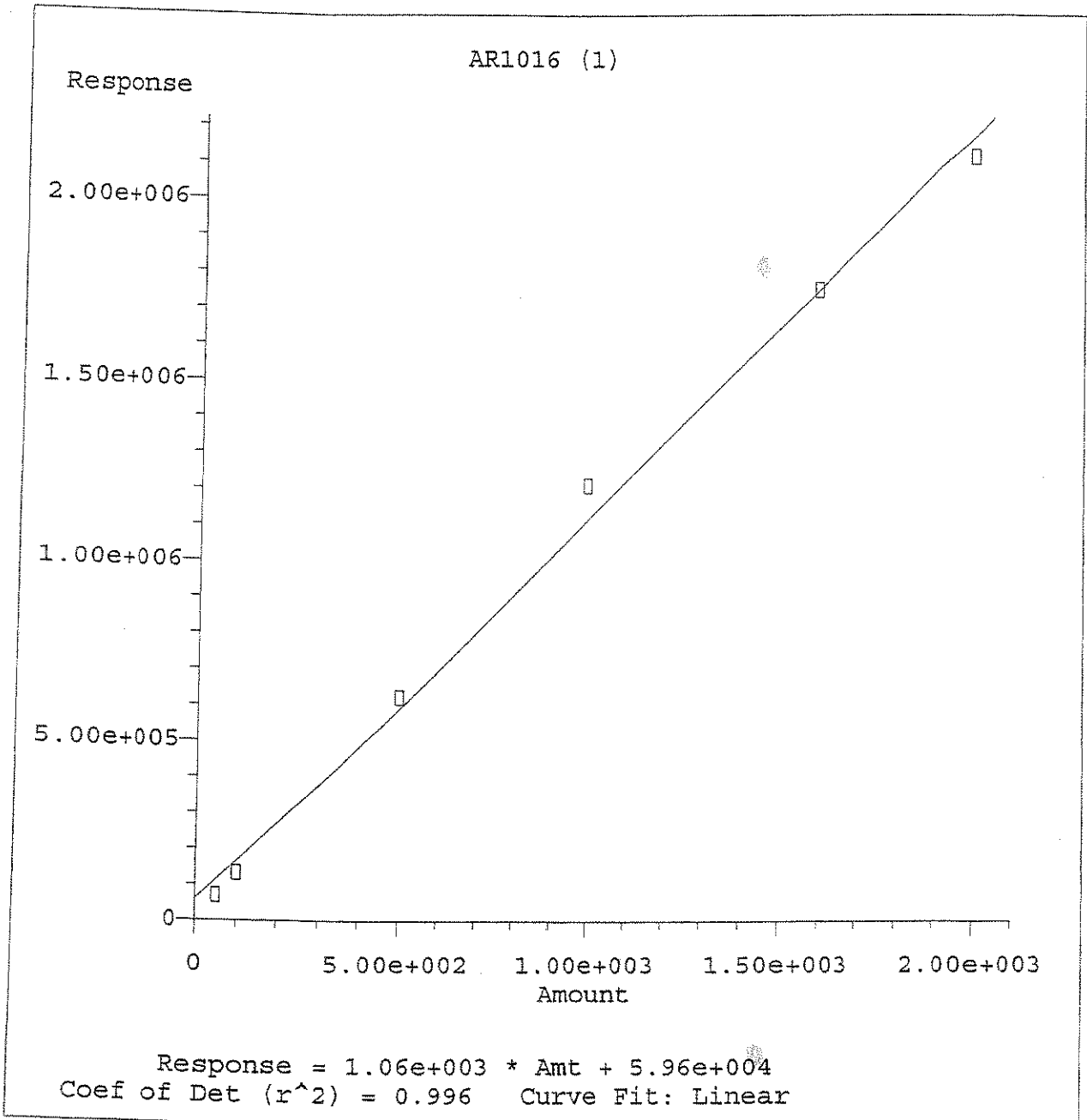
500 =004R0201.D 2000 =007R0201.D 50 =002R0201.D  
 100 =003R0201.D 1000 =002R0101.D 1600 =006R0201.D

Compound	500	2000	50	100	1000	1600	Avg	%RSD
1) S Tetrachloro-m-xylene	52.2	46.3	55.7	52.8	50.5	47.0	50.7	E3 7.10
2) LM1 AR1016 (1)	1.3	1.1	1.3	1.3	1.2	1.1	1.2	E3 8.14
3) LM1 AR1016 (2)	2.1	1.7	2.4	2.4	1.9	1.7	2.0	E3 16.32
4) LM1 AR1016 (3)	4.2	3.4	4.3	5.2	3.9	3.5	4.1	E3 16.23
5) LM1 AR1016 (4)	1.5	1.3	1.4	1.5	1.5	1.4	1.4	E3 6.48
6) LM1 AR1016 (5)	1.2	1.0	1.6	1.4	1.1	1.0	1.2	E3 19.09
7) LM2 AR1260 (1)	3.3	2.7	4.4	4.2	3.1	2.8	3.4	E3 21.08
8) LM2 AR1260 (2)	2.3	2.0	2.9	2.7	2.2	2.0	2.4	E3 15.34
9) LM2 AR1260 (3)	5.1	4.4	5.9	5.5	4.9	4.4	5.0	E3 12.16
10) LM2 AR1260 (4)	3.2	2.6	3.8	3.6	3.1	2.9	3.2	E3 14.04
11) LM2 AR1260 (5)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	E3 3.10
12) S Decachlorobiphenyl	45.0	36.3	54.3	51.0	42.1	37.4	44.3	E3 16.31

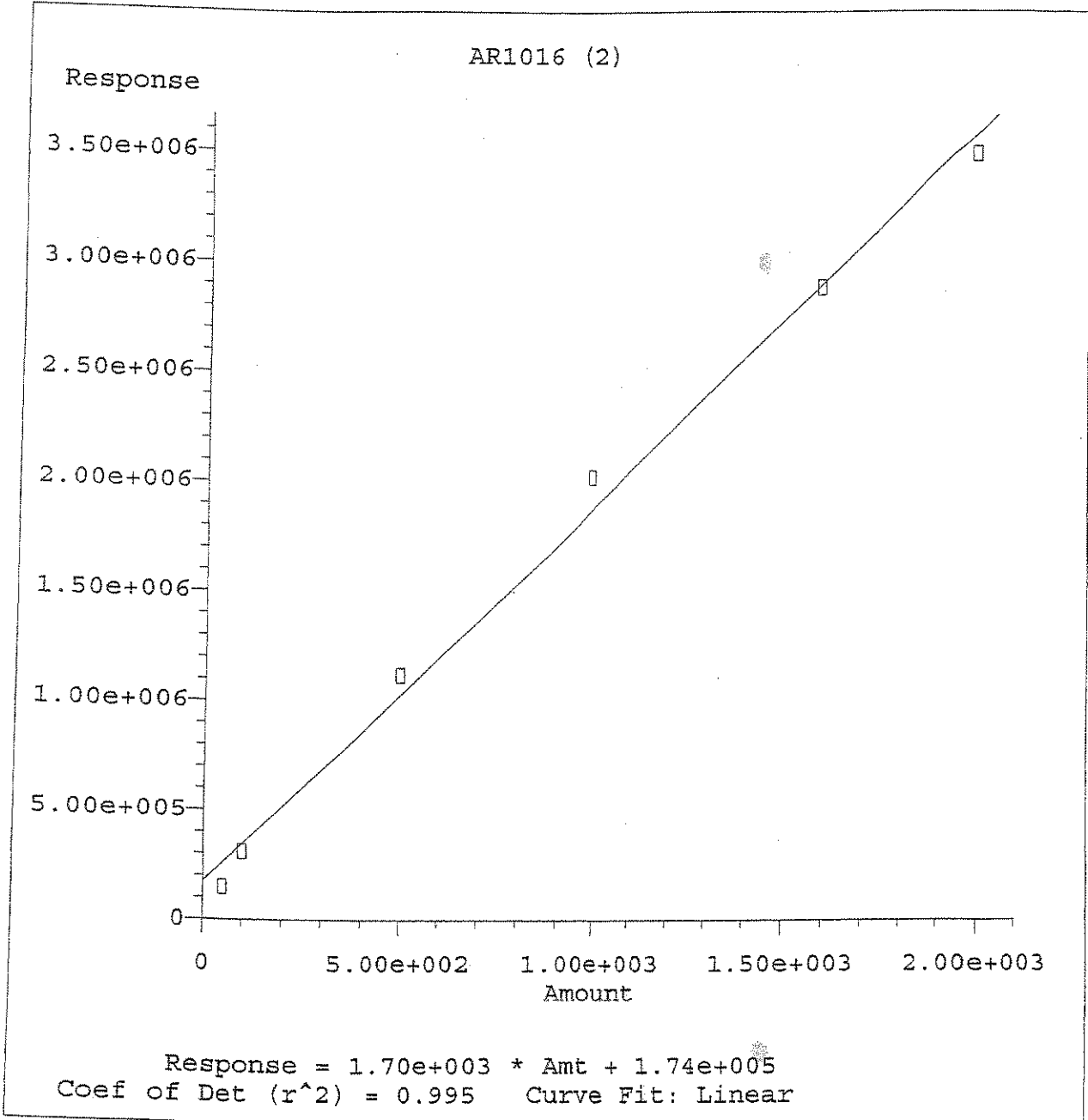
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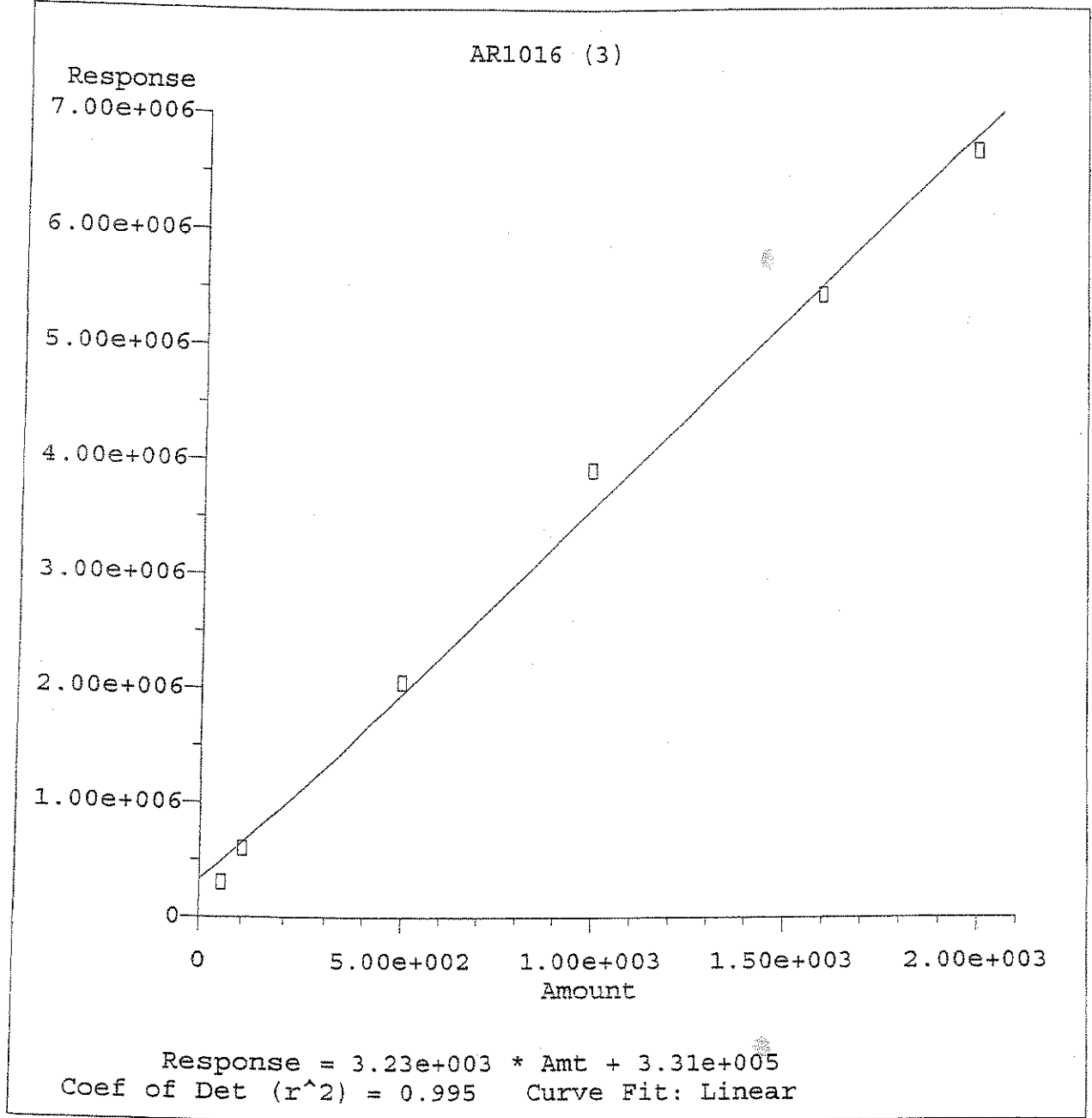
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



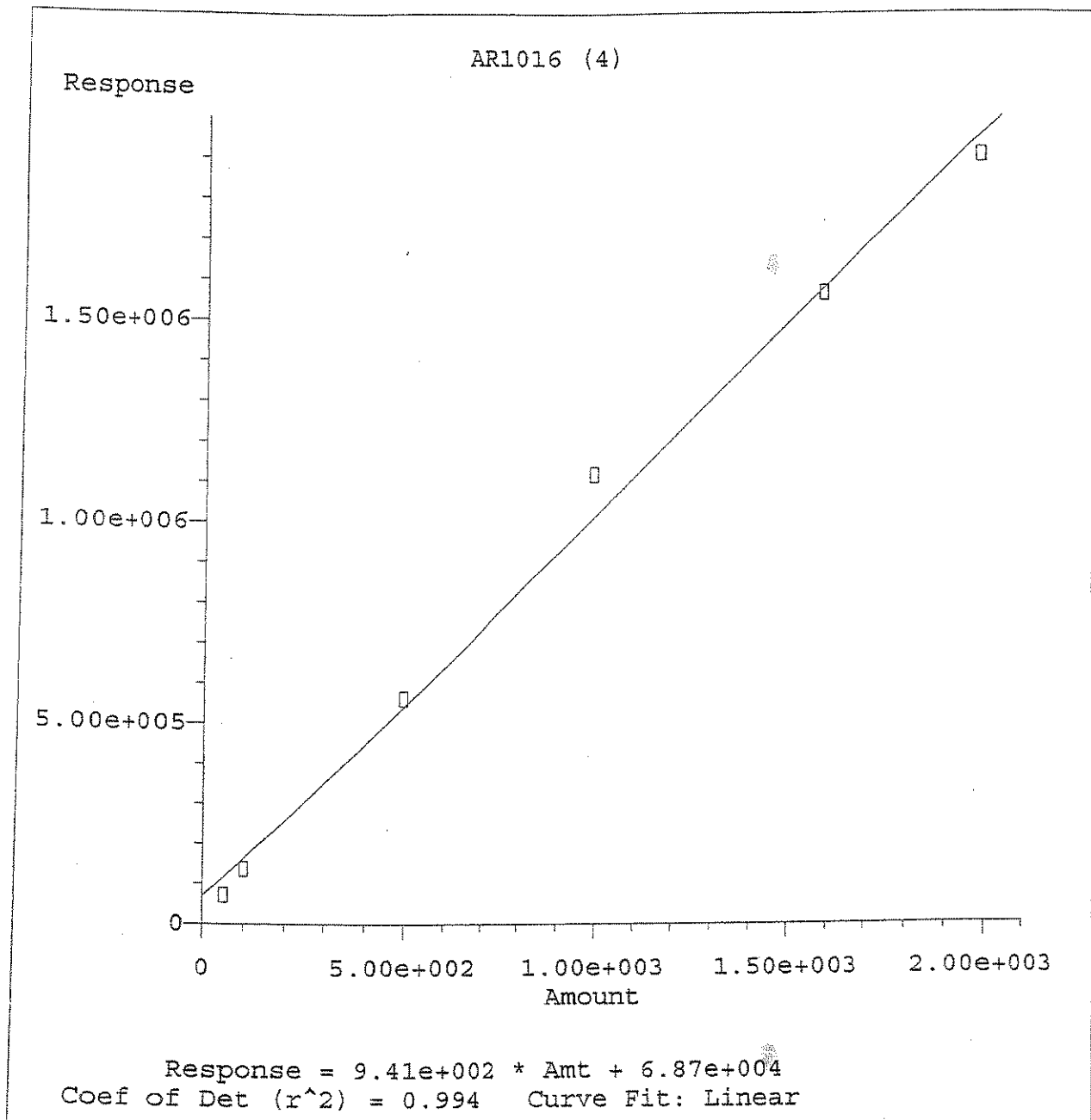
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

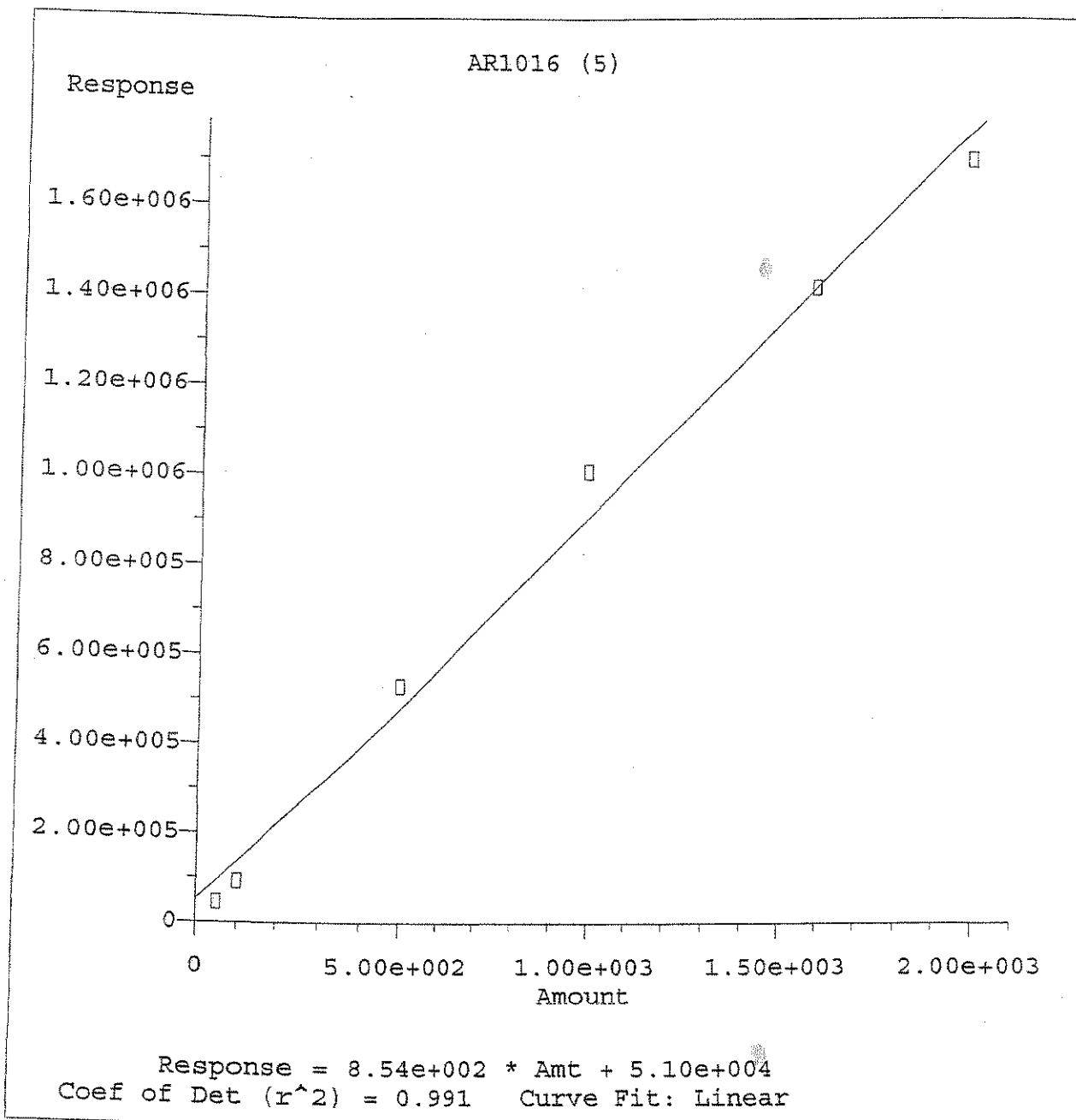


Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

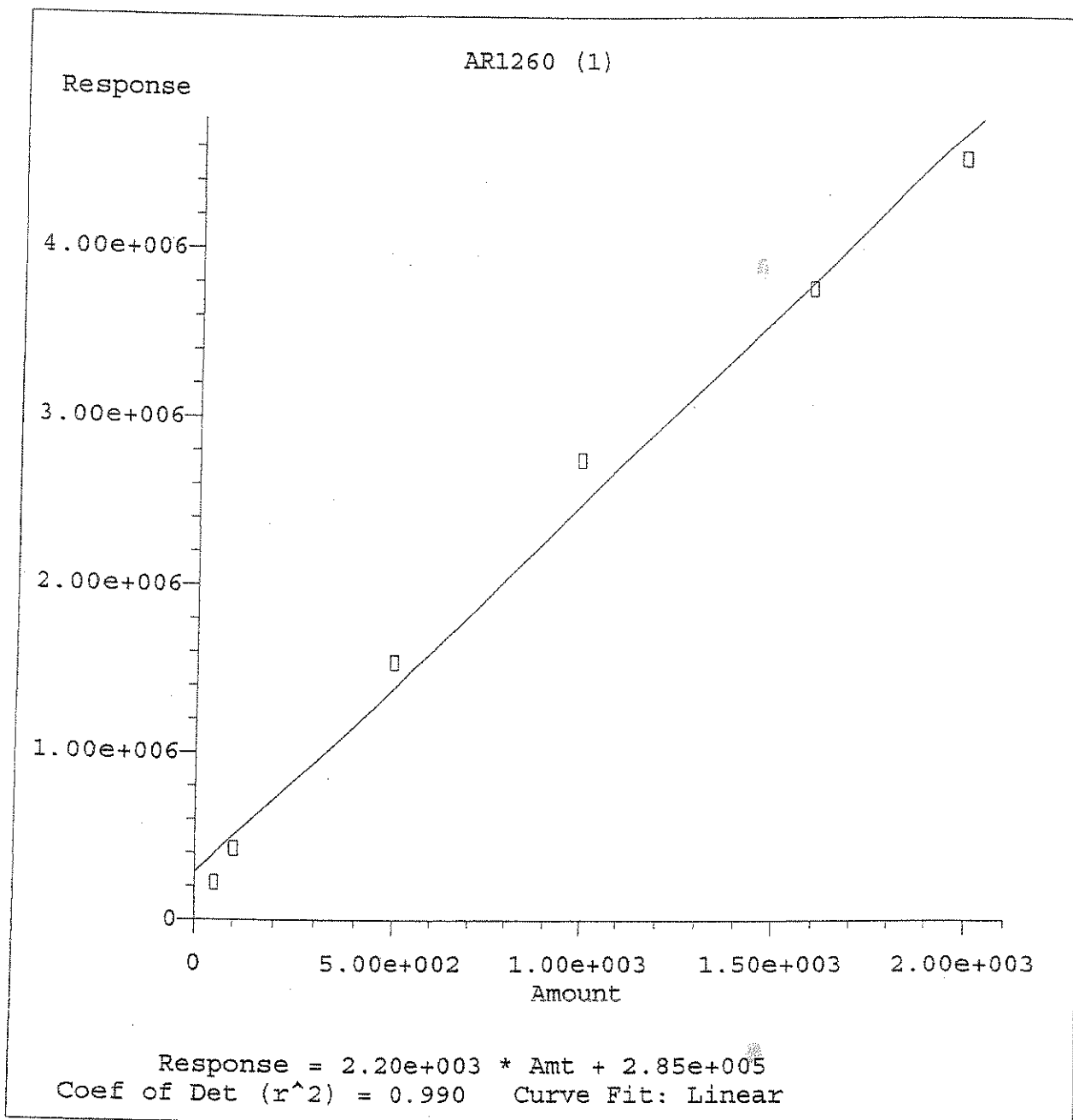


Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

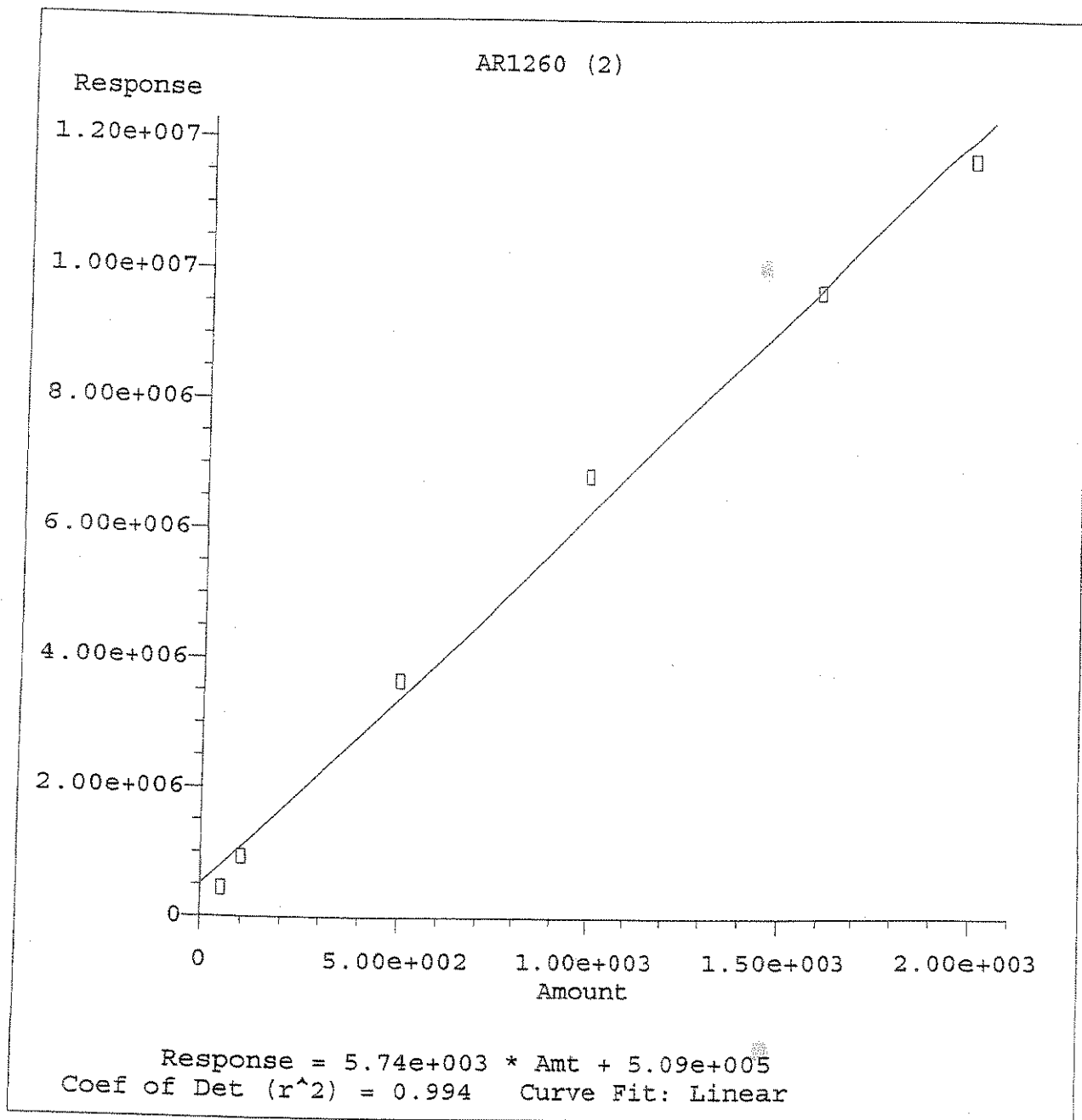




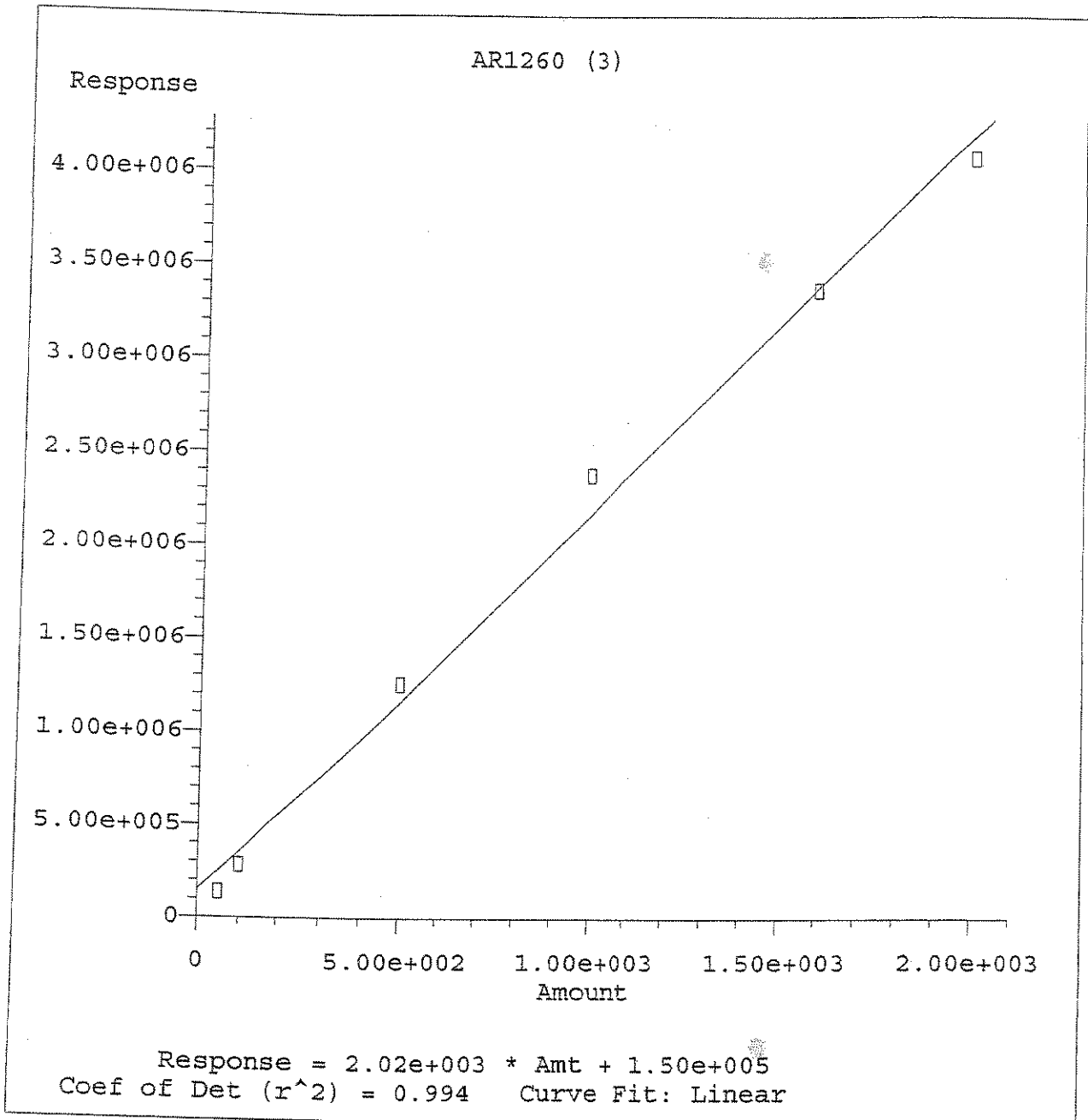
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



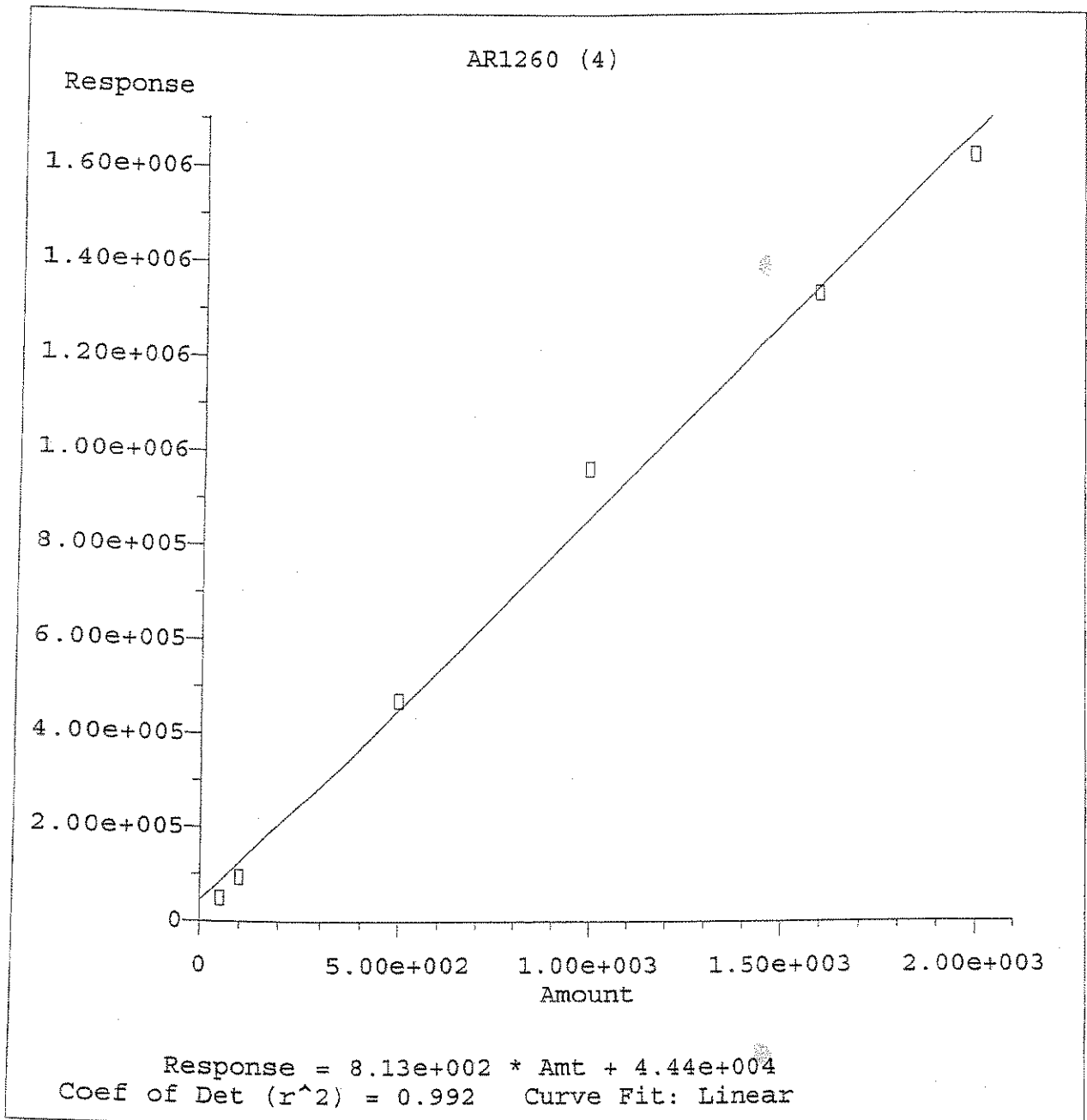
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 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



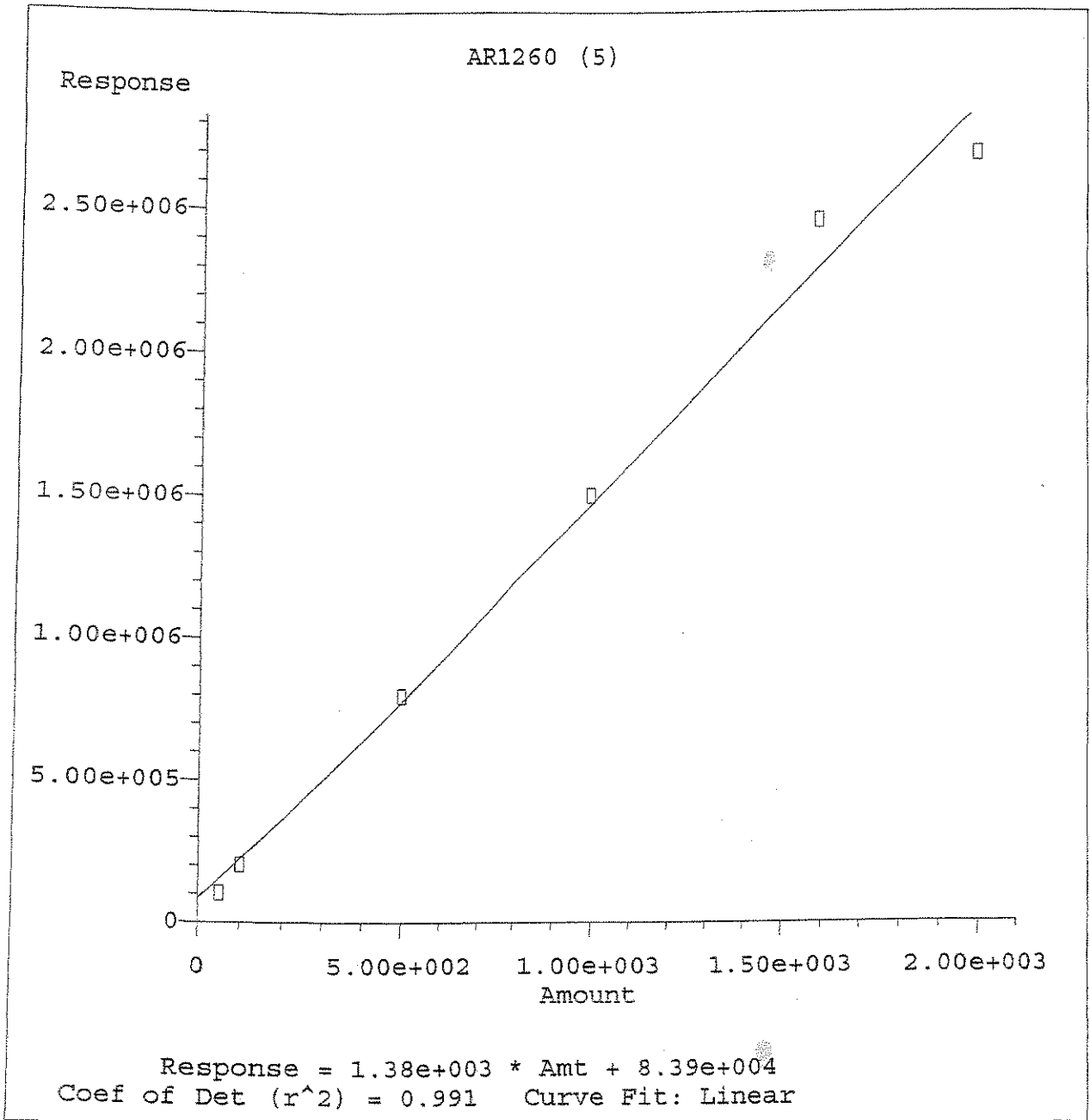
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



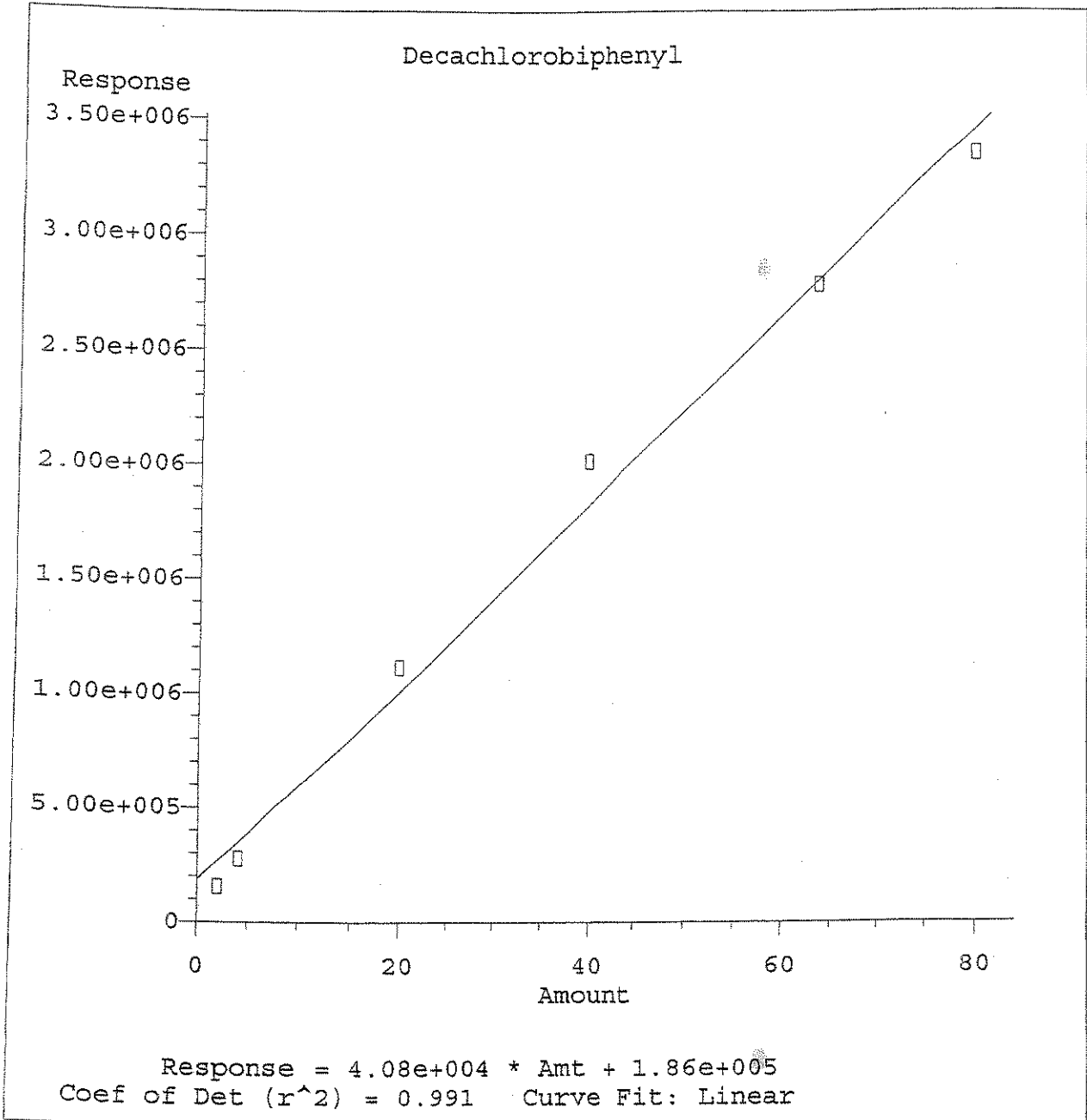
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 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



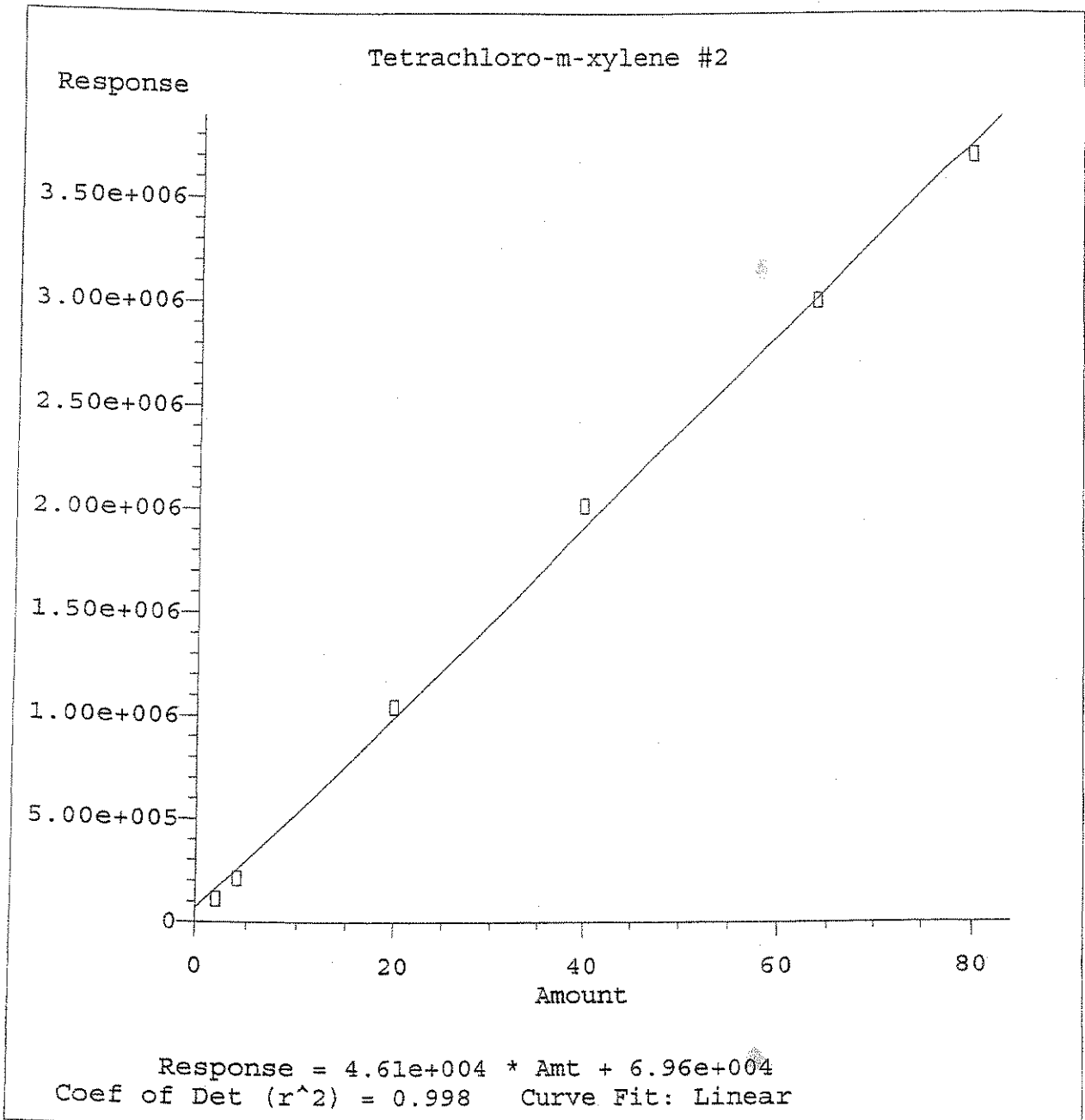
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

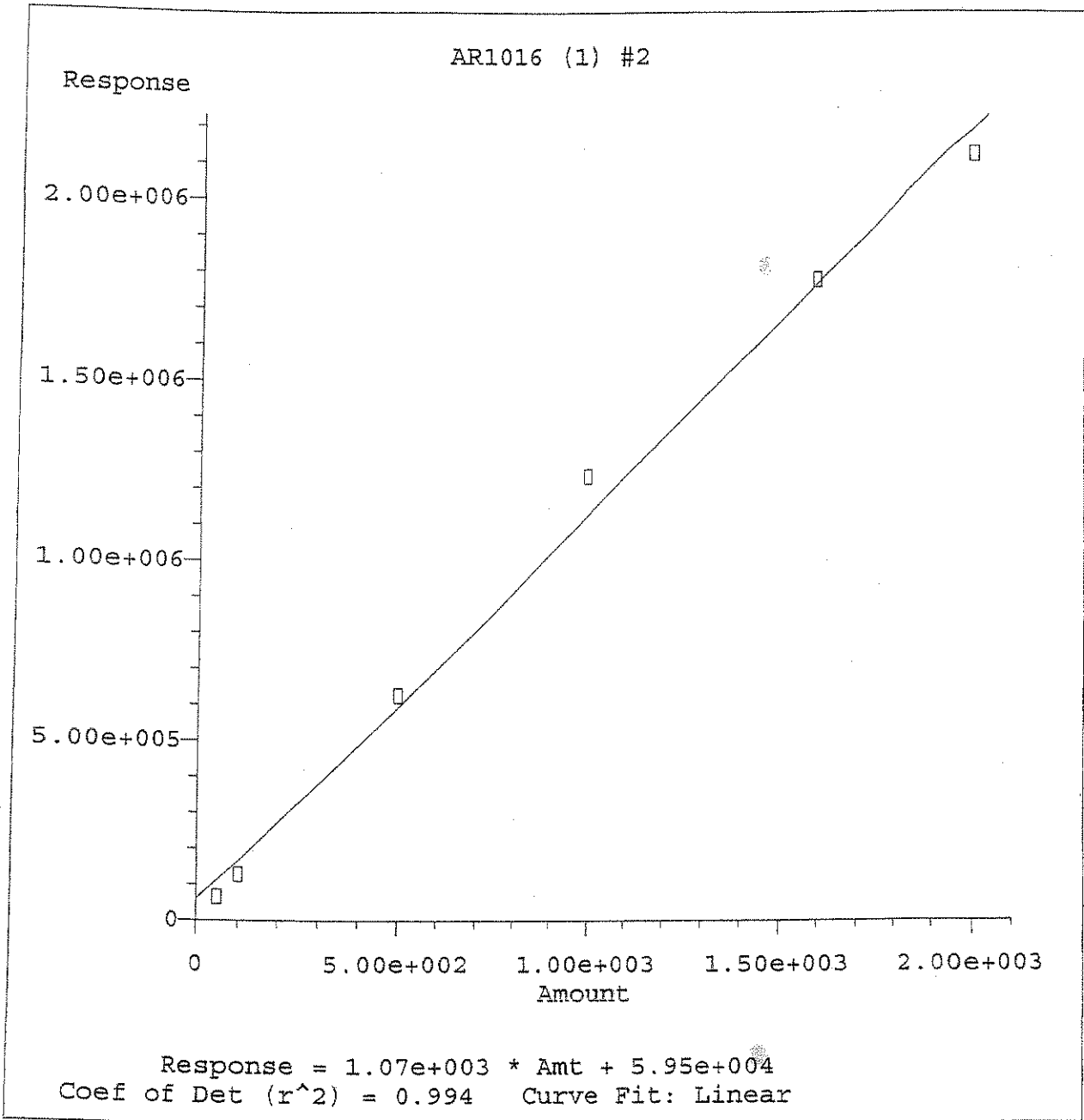


Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



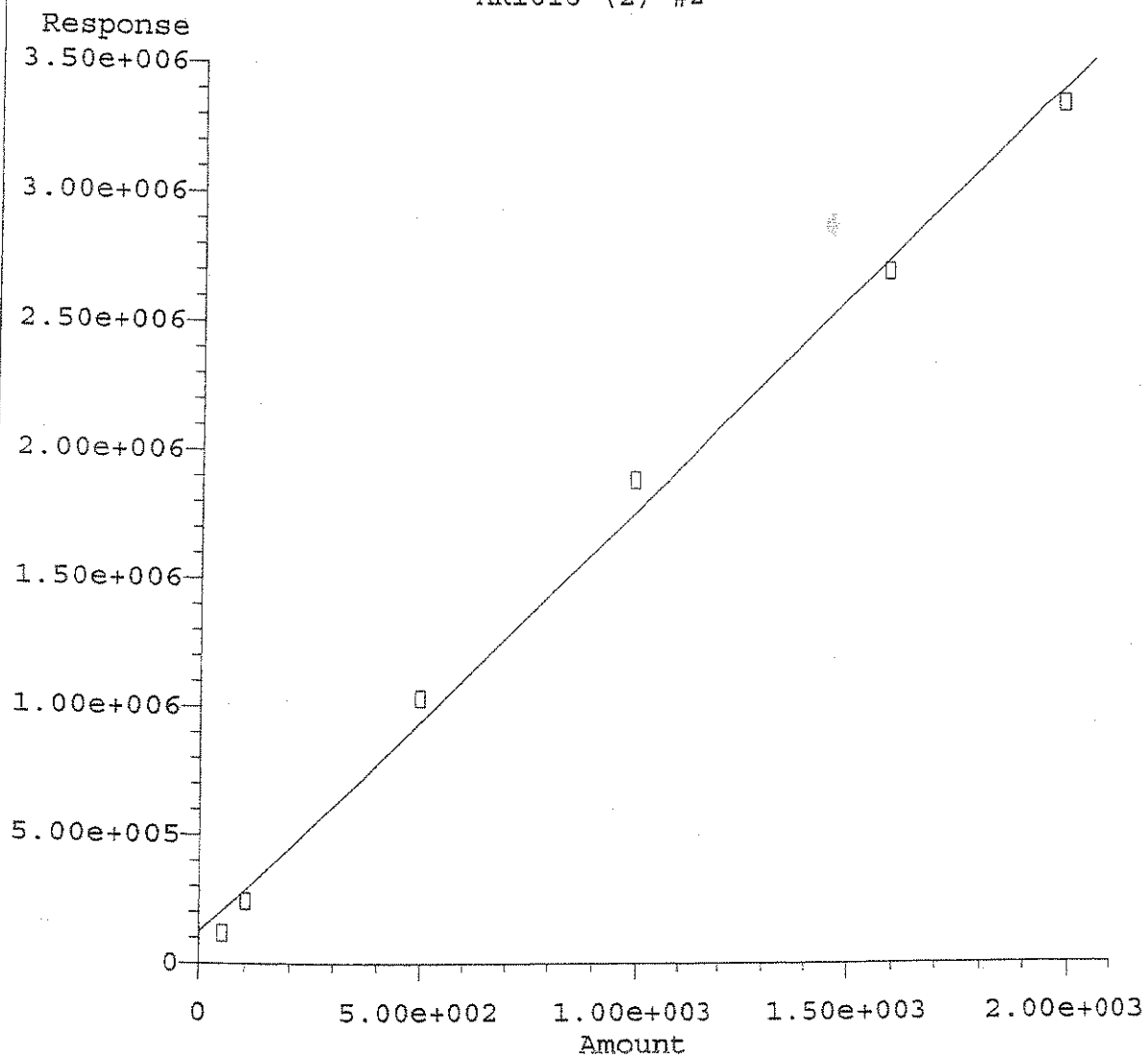
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006





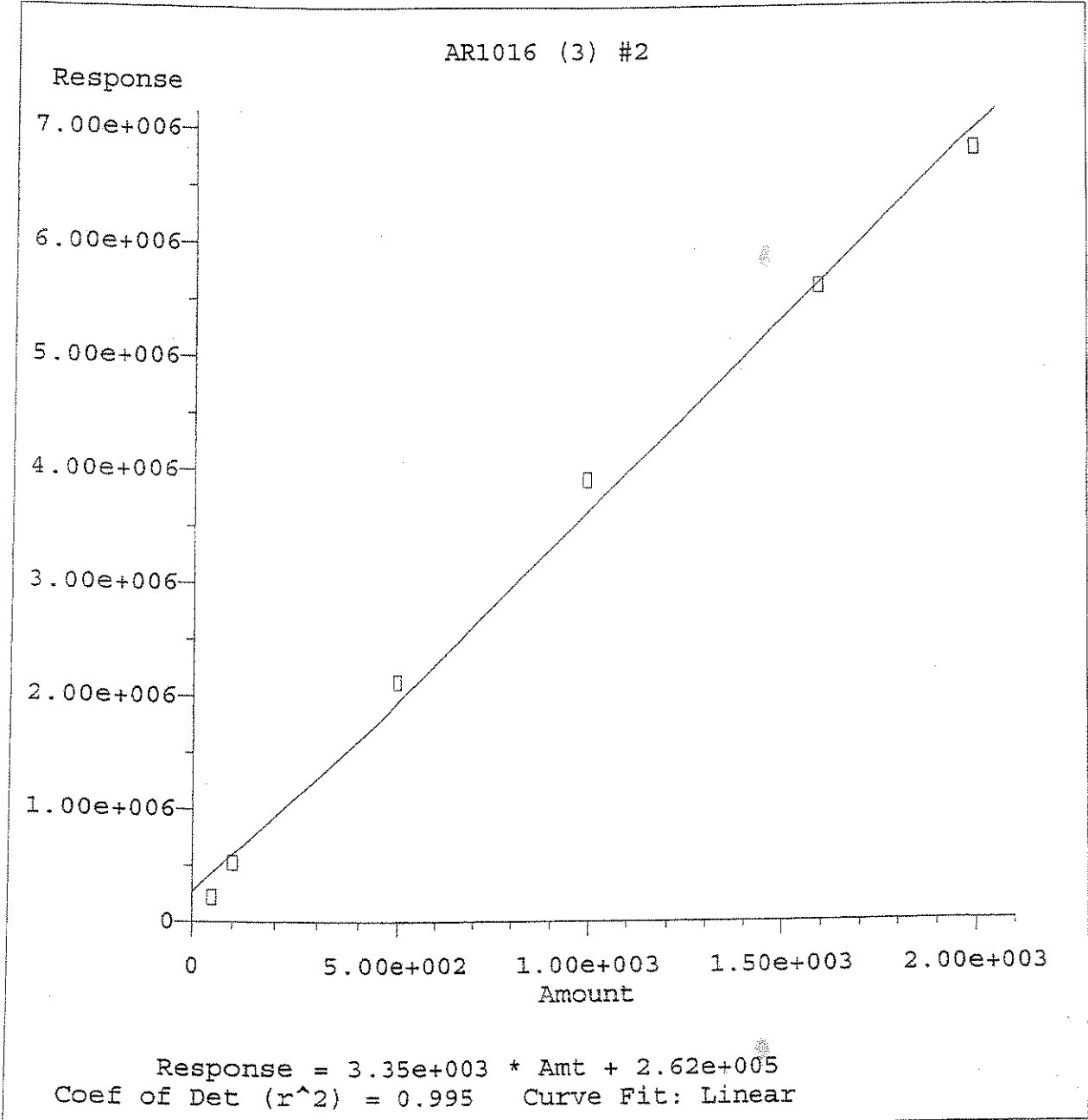
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

AR1016 (2) #2

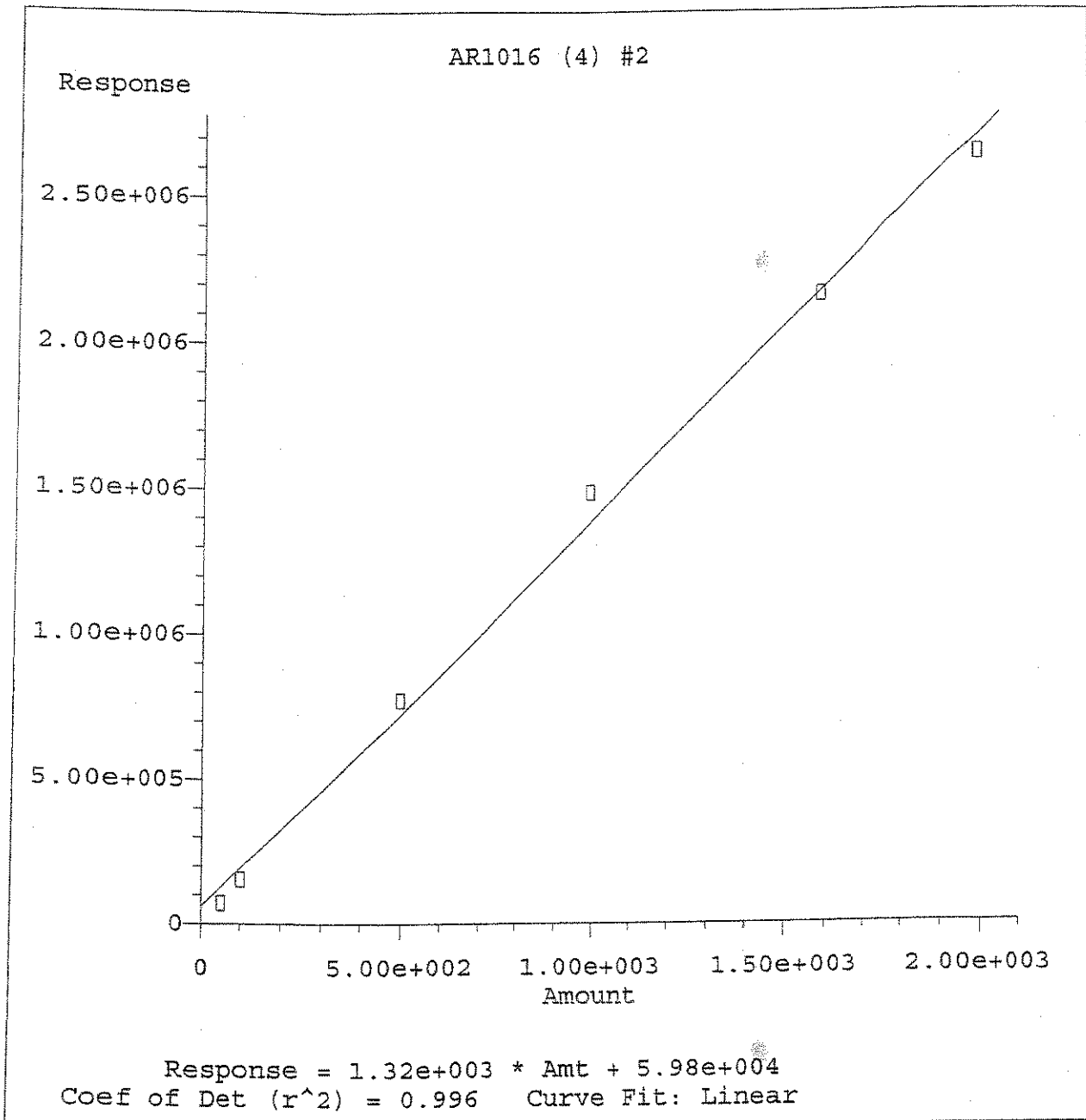


Response =  $1.63e+003 * Amt + 1.24e+005$   
Coef of Det ( $r^2$ ) = 0.995 Curve Fit: Linear

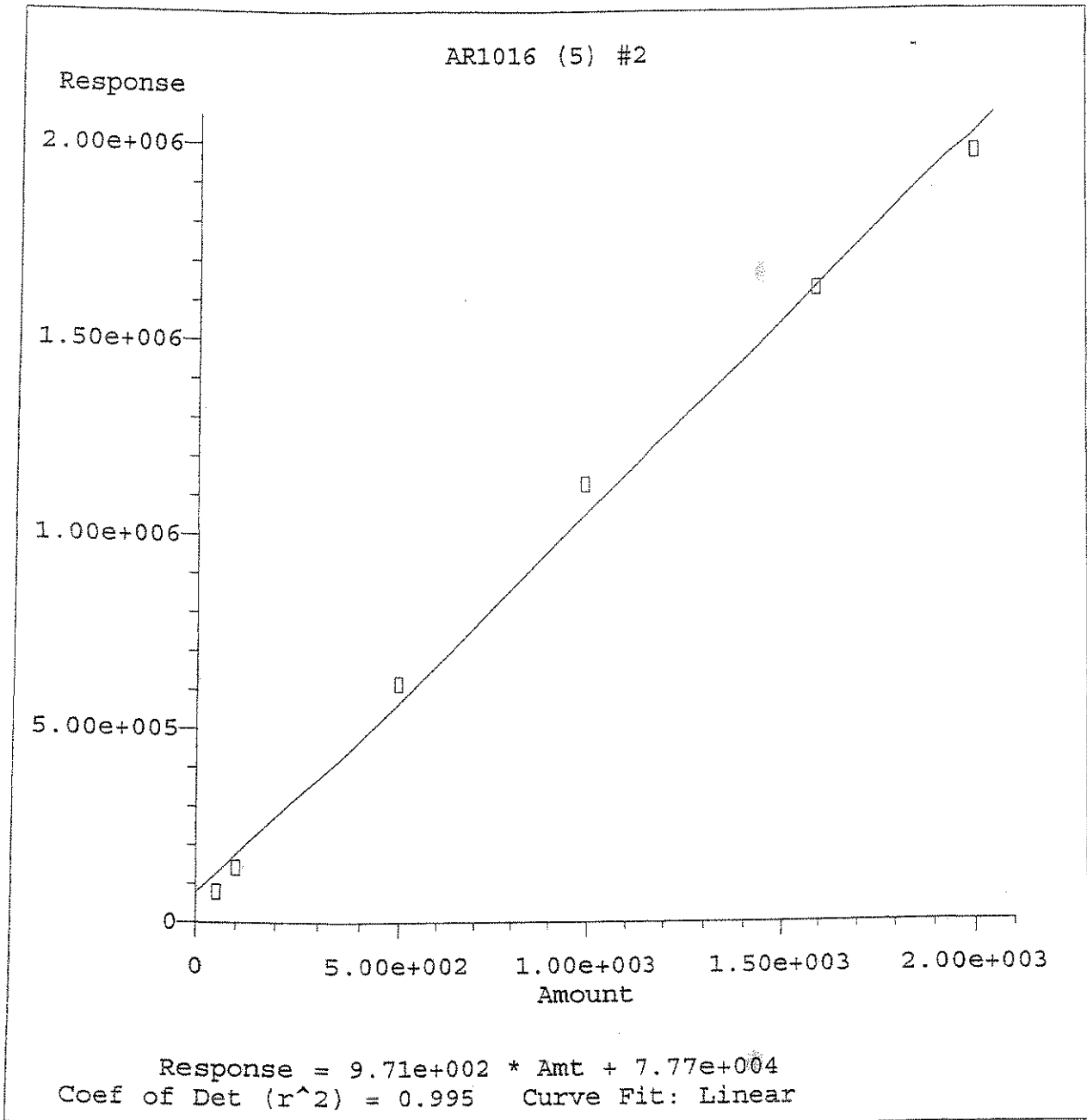
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



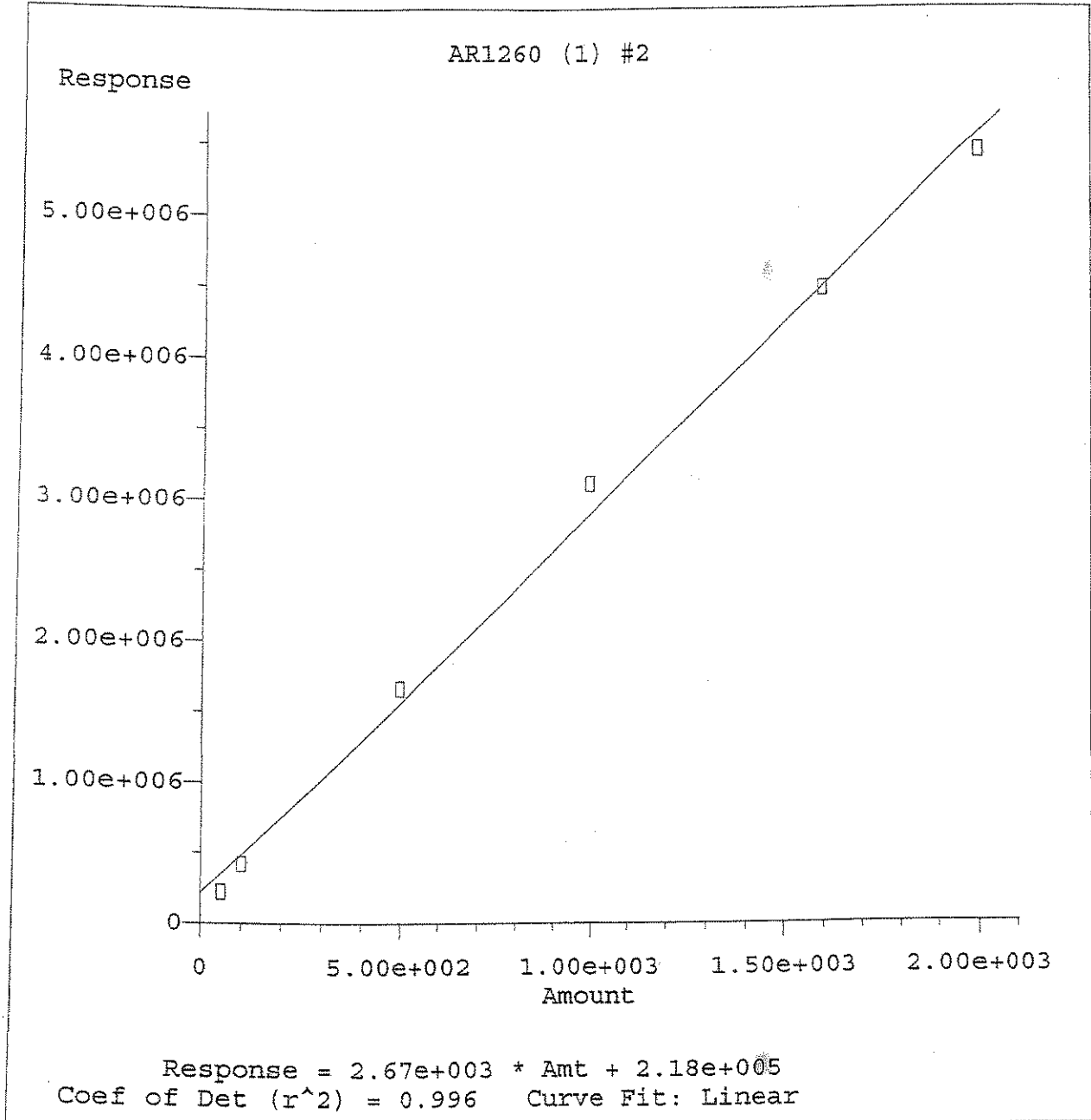
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

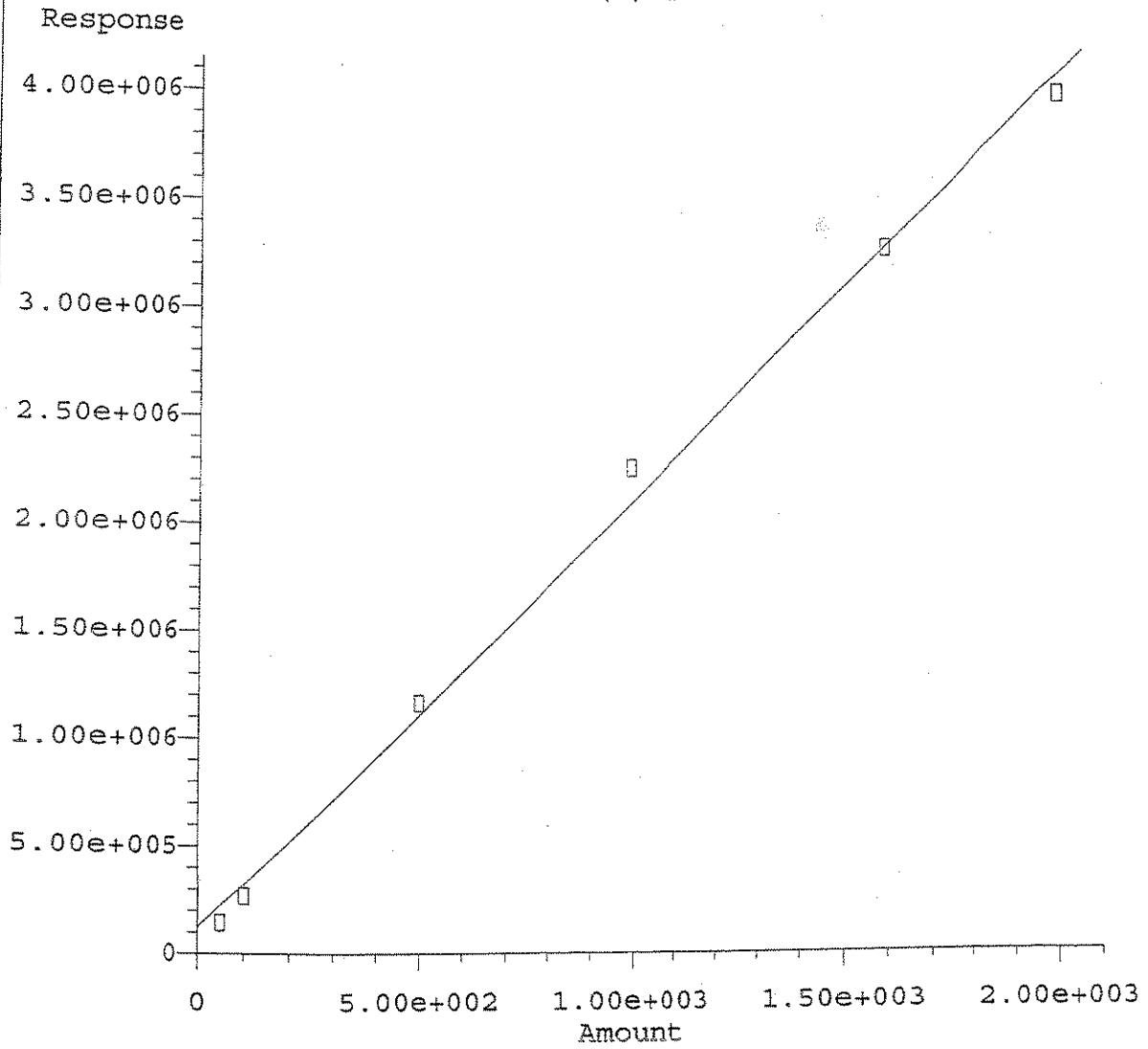


Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



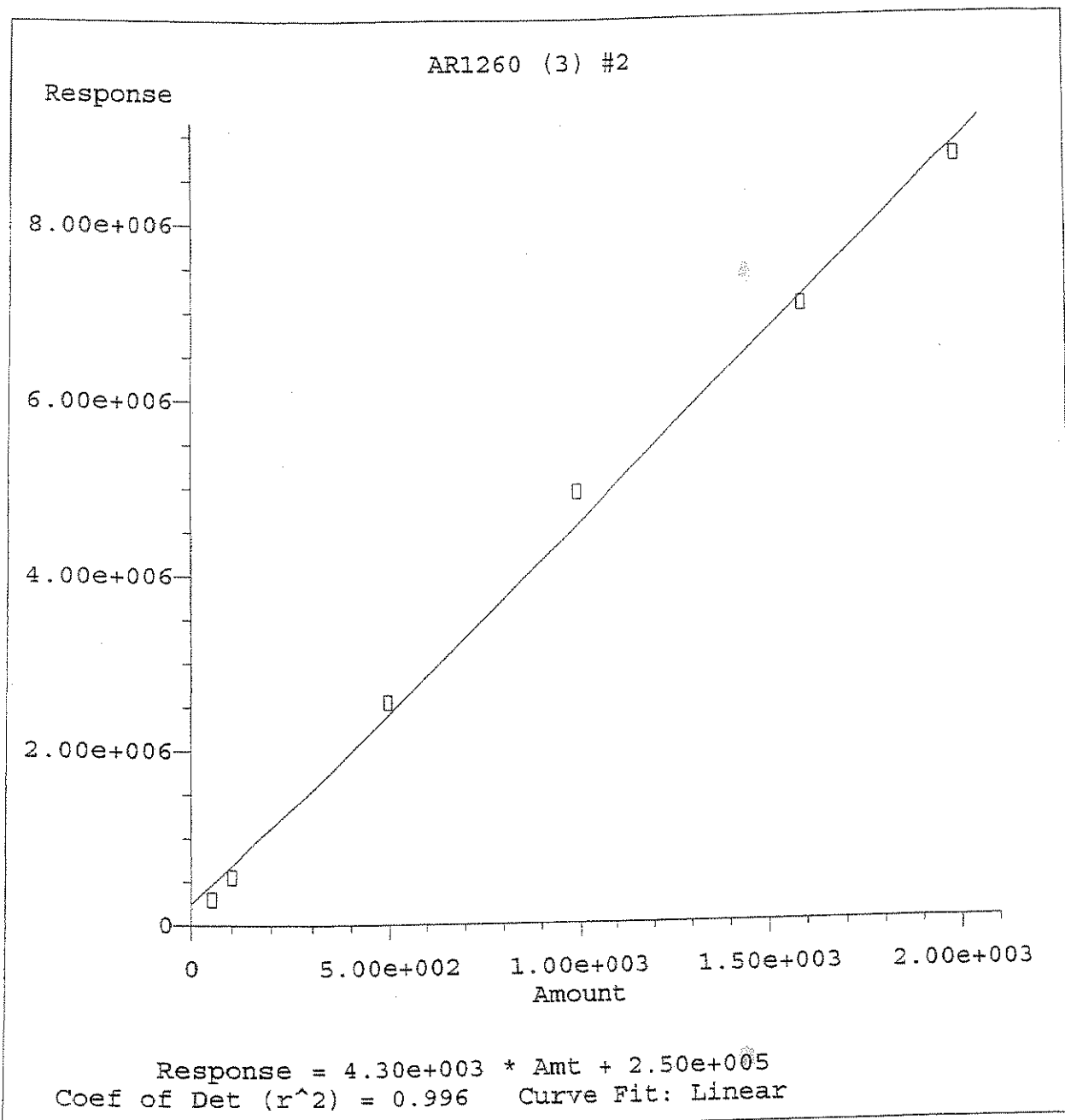
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

AR1260 (2) #2



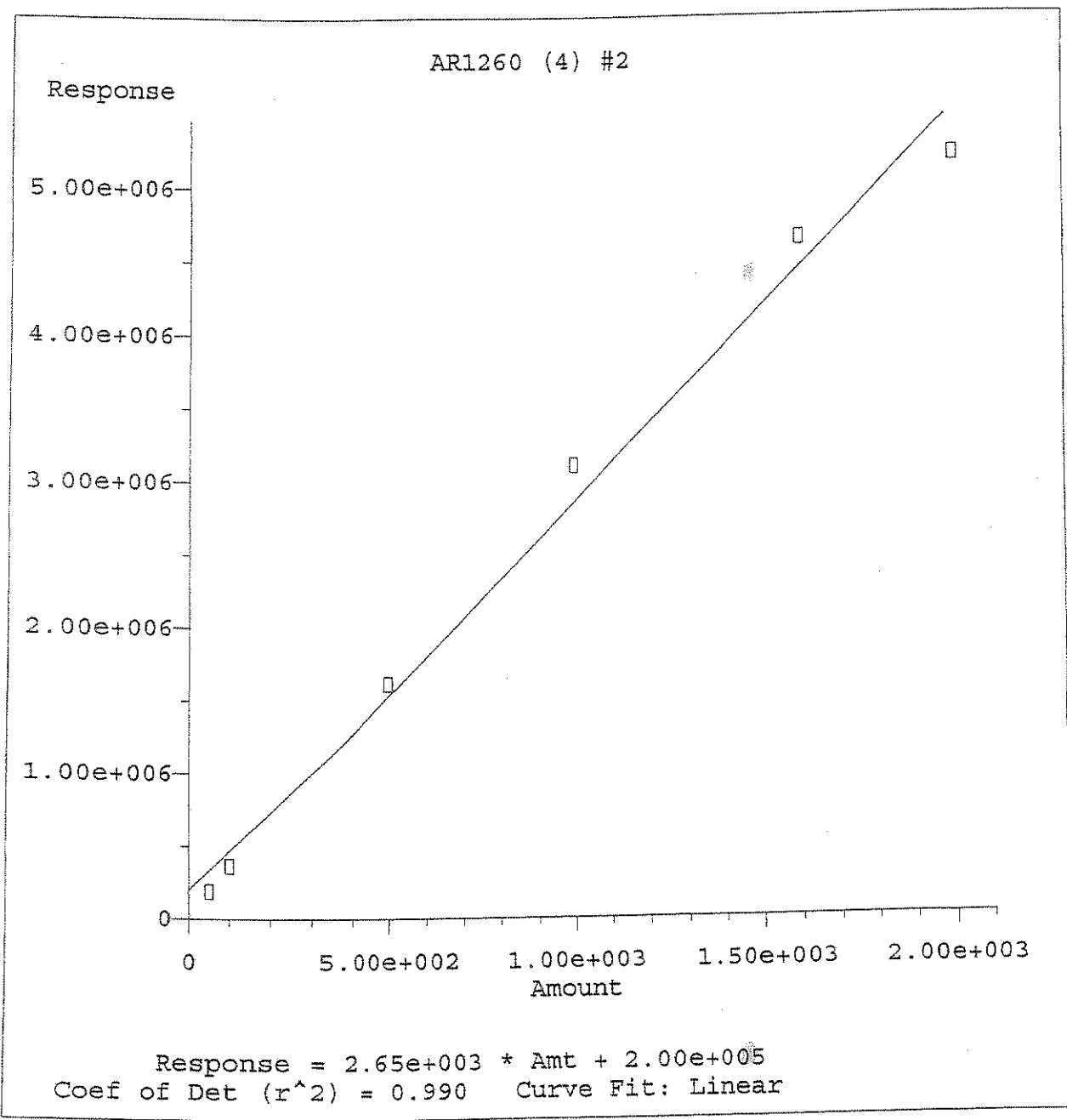
Response = 1.96e+003 \* Amt + 1.25e+005  
Coef of Det (r^2) = 0.996 Curve Fit: Linear

Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

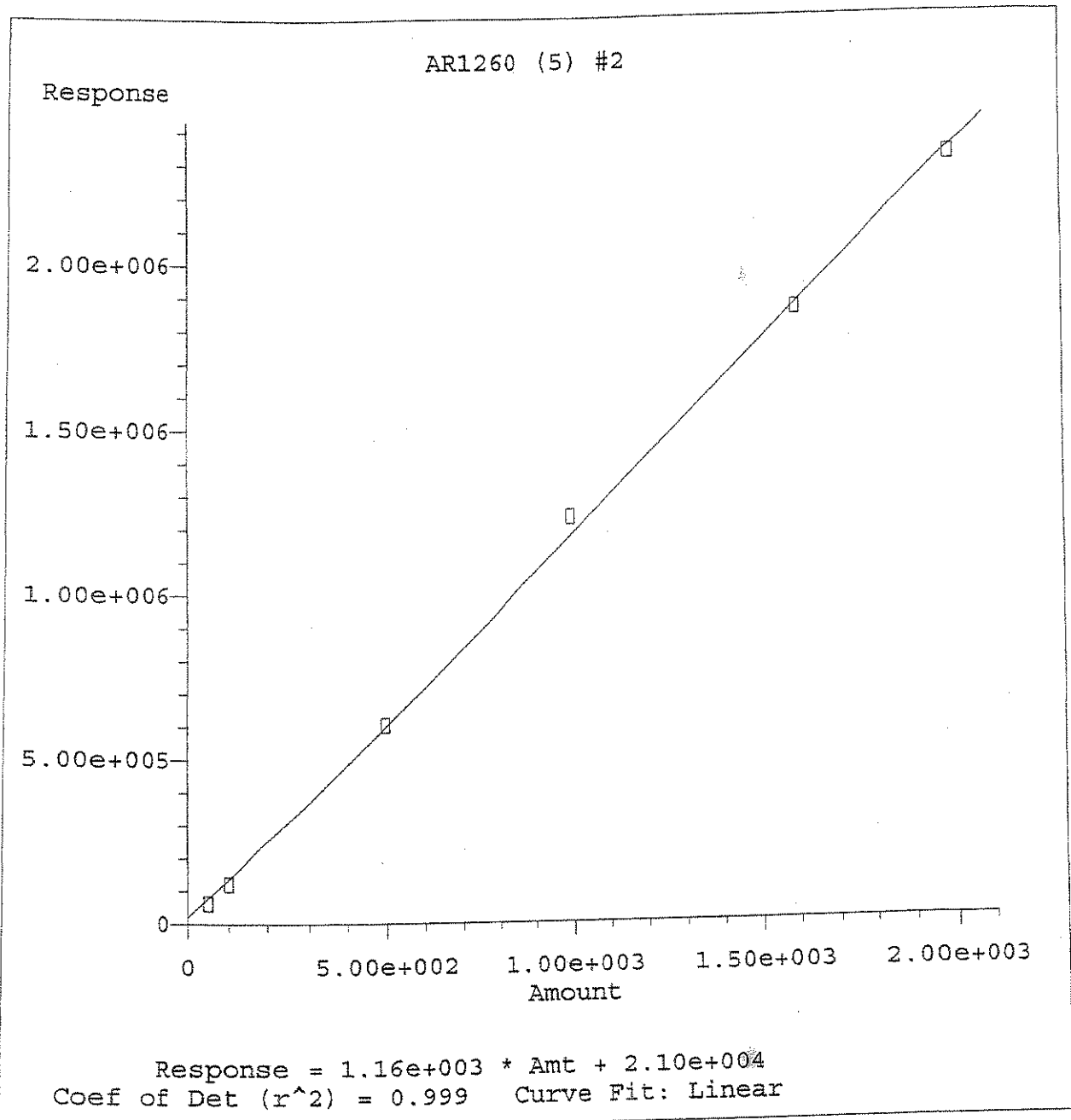


Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

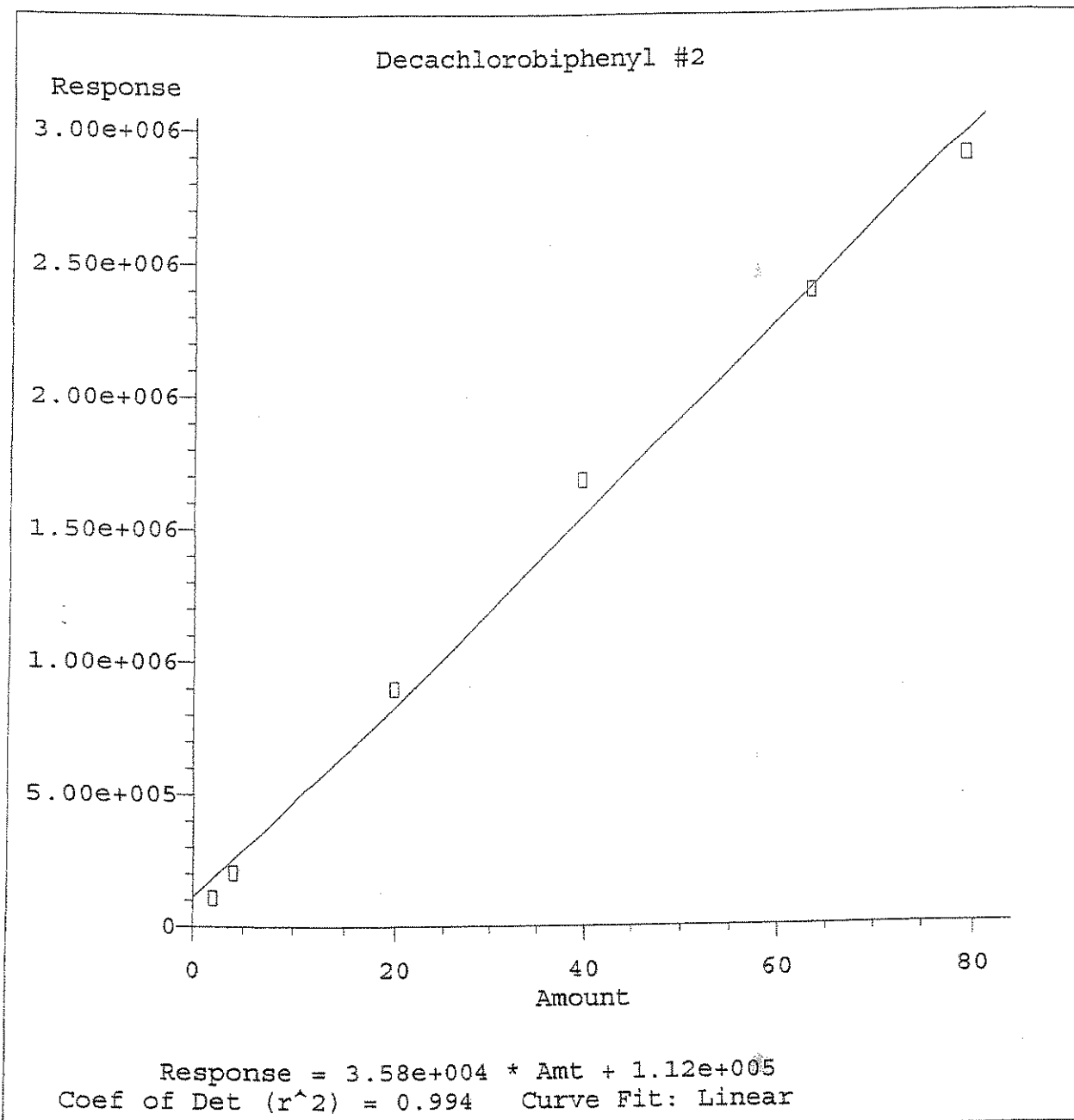




Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

Signal #1 : Q:\SVOA\GC5\_GG\DATA\6606236A\008F0201.D Vial: 8  
 Signal #2 : Q:\SVOA\GC5\_GG\DATA\6606236A\008F0201.D\008R0201.D  
 Acq On : 23 Jun 06 06:46 PM Operator: [GC]8R0201.I  
 Sample : 1660 SS 1000ppb SCVI Inst : GC5  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 26 11:46 19106

Method : Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Title :  
 Last Update : Mon Jun 26 11:45:25 2006  
 Response via : Multiple Level Calibration

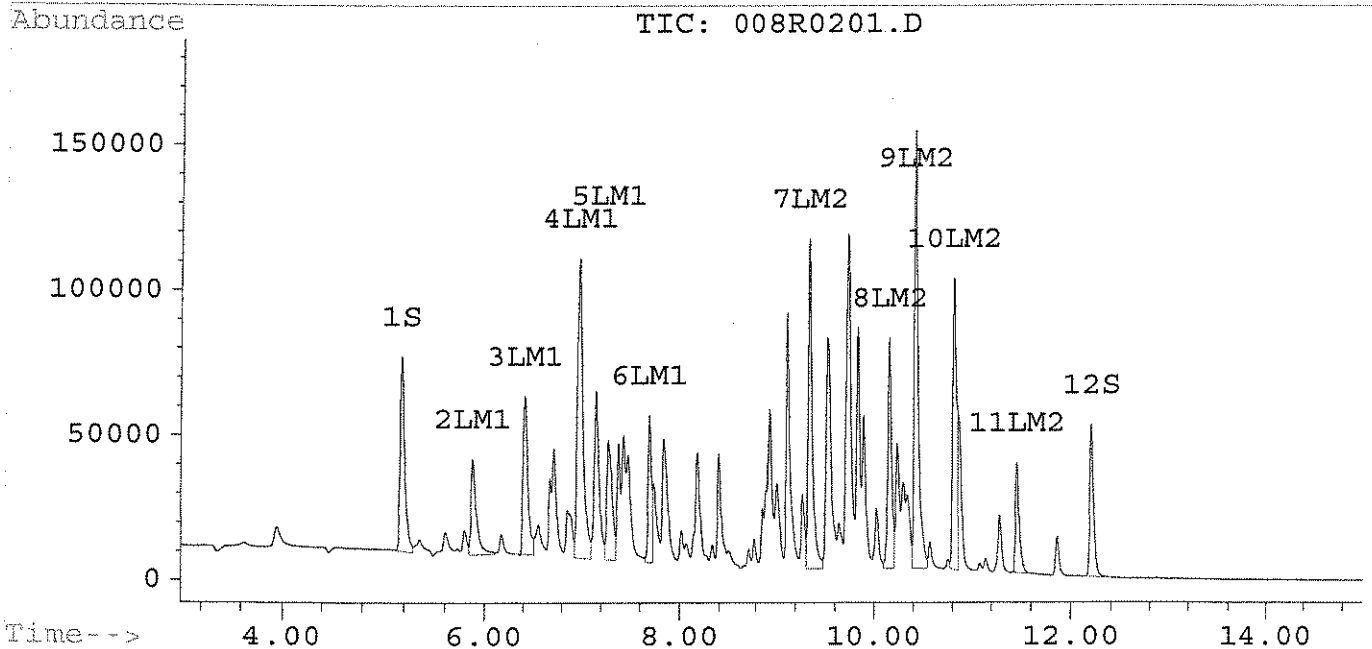
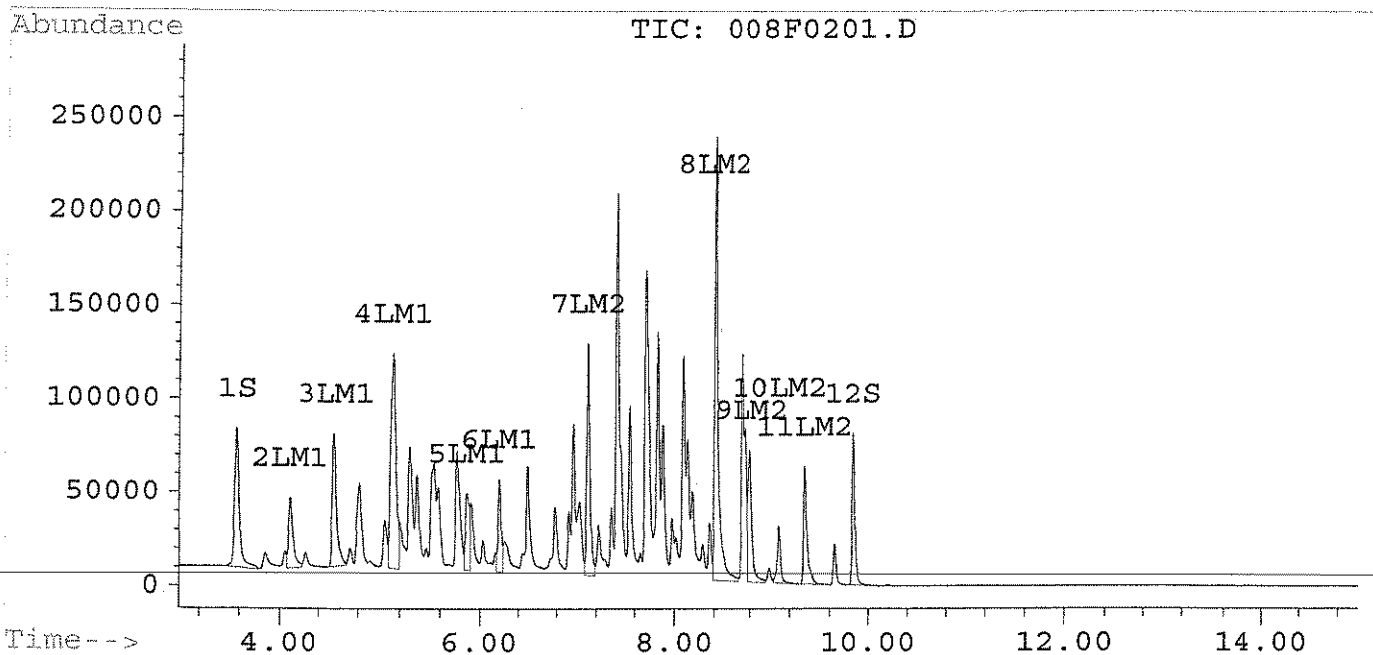
Volume Inj. : 2 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xylen	3.58	5.18	2381099	1983506	43.699	41.532
			Recovery	=	87.40%	83.06%
2) S Decachlorobiphenyl	9.85	12.21	1674500	1405080	36.451	36.112
			Recovery	=	72.90%	72.22%
Target Compounds						
2) LM1 AR1016 (1)	4.11	5.88	1210611	1240183	1090.594	1106.571
3) LM1 AR1016 (2)	4.57	6.42	2095455	1919188	1130.800	1100.620
4) LM1 AR1016 (3)	5.14	6.99	4046102	4099837	1148.950m	1144.360
5) LM1 AR1016 (4)	5.88	7.28	1052419	1569079	1045.107	1143.238
6) LM1 AR1016 (5)	6.21	7.70	1133842	1179454	1267.344	1134.258
Total AR1016 (1)			9538429	10007740	5682.795	5629.047
average AR1016 (1)					1136.559	1125.809
7) LM2 AR1260 (1)	7.12	9.35	2754355	3101834	1124.288	1079.237
8) LM2 AR1260 (2)	8.42	10.16	6008786	2041479	957.684	979.082
9) LM2 AR1260 (3)	8.80	10.43	2039000	4225302	935.625	923.648
10) LM2 AR1260 (4)	9.09	10.82	774629	2881898	898.537	1010.980m
11) LM2 AR1260 (5)	9.36	11.46	1454366	998062	993.129	845.415
Total AR1260 (1)			13031136	13248575	4909.263	4838.362
average AR1260 (1)					981.853	967.672

Signal #1 : Q:\SVOA\GC5\_GG\DATA\6606236A\008F0201.D Vial: 8  
Signal #2 : Q:\SVOA\GC5\_GG\DATA\6606236A\008R0201.D\008R0201.D  
Acq On : 23 Jun 06 06:46 PM Operator: [GC]8R0201.I  
Sample : 1660 SS 1000ppb Inst : GC5  
Misc : Multiplr: 1.00  
Quant Time: Jun 26 11:46 19106

Method : Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Title :  
Last Update : Mon Jun 26 11:45:25 2006  
Response via : Multiple Level Calibration

Volume Inj. : 2 uL  
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
Signal #1 Info : 0.32 Signal #2 Info : 0.32



## ANALYSIS SEQUENCE

BPG0304

Instrument: SVOAGC5

Calibration ID: UNASSIGNED 8082CX

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0304-CCV1	QC		1		6F23058		
0606372-03	C: 8082 ppb Low Level CLP	G	2				MACTEC Engineering & Consulting, Inc
BF62333-BLK1	QC		3				
BPG0304-CCV2	QC		4		6F23058		

Samples Loaded By

Date

Data Prepared By

Date

# ESS LABORATORY GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II

Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/22/11	39	600260-39	060374-39	8002CX		M
	40	-40				
	41	-41	BF62333-B1K1			
	42	-42	BF62333-B1K1			
	43	-43				
	44	-44	060334-01			
	45	-45	060334-01			
	51	-51	149			
	52	-52	16604		6F23058 CCV2 4:18AM	
	53	-53	12424		59	
	54	-54	12484		60	
	55	-55	12444		61	
6/22/11	52	600660-52	16604	8002CX	6F23058	N
6/27/11	1	6002706-01	16604	8002CX		M
	2	-02	16604		6F23058	
	3	-03	12424		59	
	4	-04	12484		60	
6/27/11	5	6002706-05	12424	8002CX	6F23061	N
6/28/11	1	60062006-01	16604	8002CX	6F23058 CCV1 BP60304	M
	2	-02	16604		6F23058 CCV1 BP60304	
	3	-03	12424		59	
	4	-04	12484		60	
	5	-05	12444		6F23061	
	6	-06	BF62219-B1K1		5X CONC	
	7	-07	060334-01		5X CONC	
	8	-08	060334-02		5X CONC	
	9	-09	060334-03		5X CONC	
	10	-10	060334-04		5X CONC	
	11	-11				
6/28/11	12	60062006-12	BF62219-B1K1	8002CX	5X CONC	N

CONTROL NUMBER 60.0031-0603A

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2.26/25/11 457

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# ESS LABORATORY GC 5 RUN LOG

Y-Split Dual End

COLUMN RTX CL Pesticide / RTX CL Pesticide II

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/28/06	13	6600506-13	0606383-01	802CX	59	
	14	-14	0606397-01		410	
	15	-15	0606383-03		BAD Injection	
	16	-16	-25		ND	
	17	-17	-07		ND	
	18	-18	-10		ND	
	19	-19	0606389-01		ND	
	20	-20	-02		ND	
	21	-21	0606392-01		MAX 0	
	22	-22	-9		MAX 0	
	23	-23	0606399-14		ND	
	24	-24	0606447-01		ND	
	25	-25	-4		ND	
	26	-26	18604		6F2308 CCV2	
	27	-27	18604		59	
	28	-28	1197CC		6F2306	
	29	-29	1197CC			
	31	-31	BF62003-B14			
	30	-30	1197CC		6F23061	
	32	-32	BF62003-B5			
	33	-33	-10301			
	34	-34	BF62034-011C			
	35	-35	-B11			
	36	-36	-A301			
	37	-37	0606475-4		ND RT high-normal	
	38	-38	0606461-4		60, 19, 42 MAX 5	
	39	-39	-2		60, 19, 42 MAX	
	40	-40	-23		59 MAX 10	
	41	-41	-24		59 MAX 10	
6/28/06	42	6600506-42	-5	802CX	59 MAX 10 60	

CONTROL NUMBER 60.0031-0603A

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Quantitation Report

Signal #1 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062806\002F0101.D Vial: 2  
 Signal #2 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062806\002F0101.D\002R0101.D  
 Acq On : 28 Jun 06 08:50 AM Operator: [GC]2R0101.D  
 Sample : 1660 CC Inst : GC5  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 29 8:59 19106

Method : Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Title :  
 Last Update : Mon Jul 10 09:21:55 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 2 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.32 Signal #2 Info : 0.32

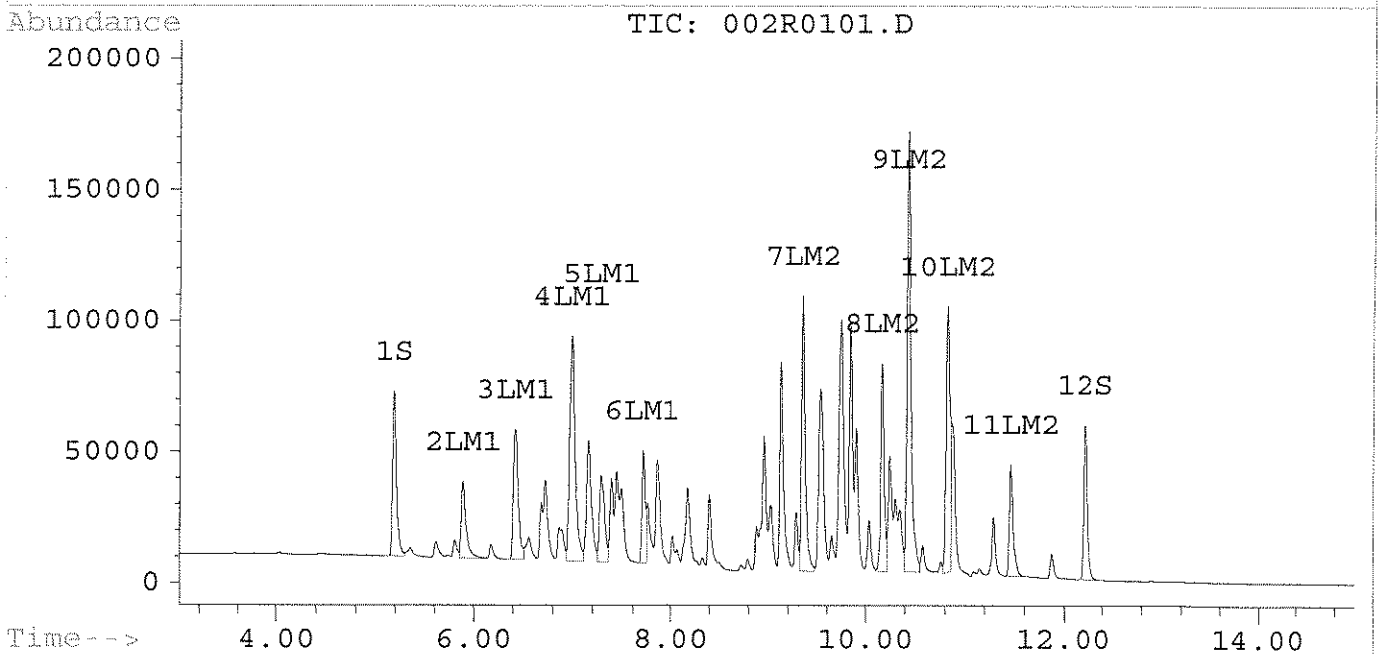
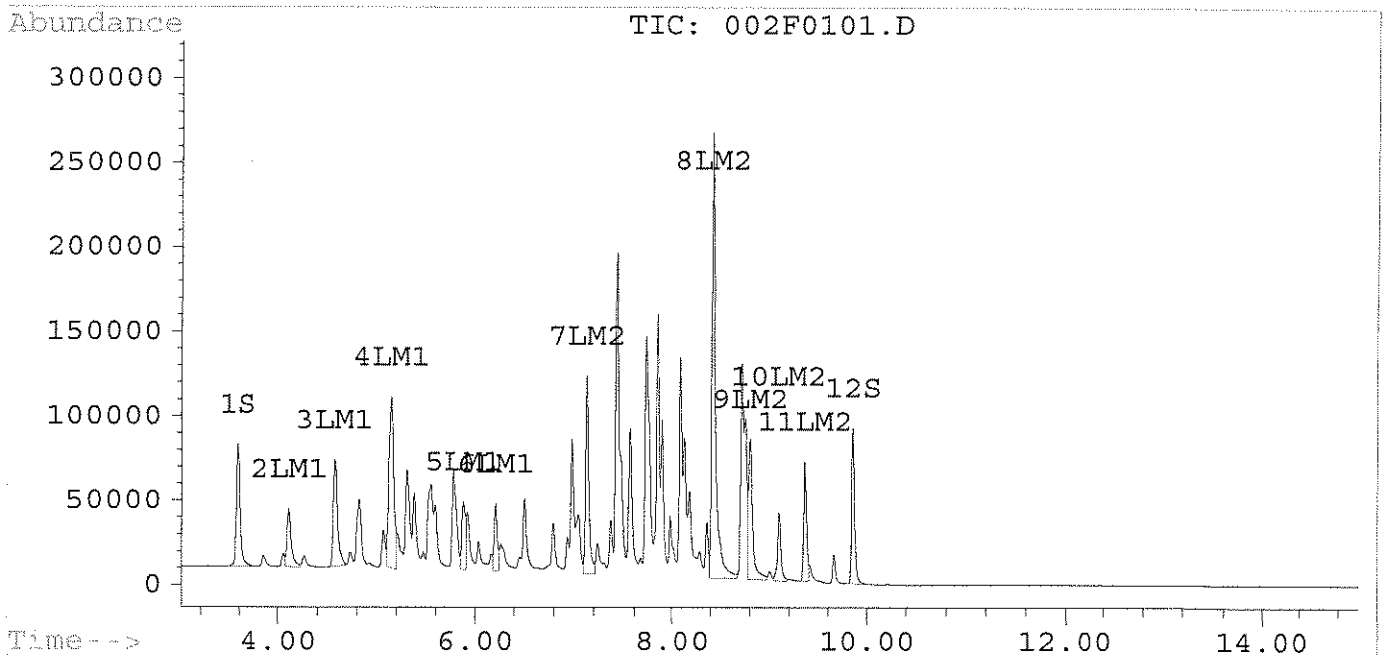
Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xylen	3.58	5.19	2129668	1800710	38.919	37.565
			Recovery	=	77.84%	75.13%
12) S Decachlorobiphenyl	9.86	12.22	1929432	1568231	42.692	40.669
			Recovery	=	85.38%	81.34%
Target Compounds						
2) LM1 AR1016 (1)	4.11	5.89	1034614	1021854	923.842	901.953
3) LM1 AR1016 (2)	4.58	6.43	1809918	1745199	962.718	993.929
4) LM1 AR1016 (3)	5.15	7.00	3531780	3352556	989.905m	921.542
5) LM1 AR1016 (4)	5.88	7.29	1019718	1205901	1010.364	868.133
6) LM1 AR1016 (5)	6.21	7.71	893331	971171	985.844	919.821
Total AR1016 (1)			8289361	8296681	4872.674	4605.377
Average AR1016 (1)					974.535	921.075
7) LM2 AR1260 (1)	7.13	9.36	2644630	2747497	1074.338	946.637
8) LM2 AR1260 (2)	8.43	10.17	6986613	1934361	1127.942	924.362
9) LM2 AR1260 (3)	8.81	10.44	2469139	4578834	1148.644	1005.781
10) LM2 AR1260 (4)	9.10	10.83	1003032	2805176	1179.600m	982.063m
11) LM2 AR1260 (5)	9.36	11.47	1467900	1128947	1002.937m	958.661
Total AR1260 (1)			14571314	13194814	5533.462	4817.504
Average AR1260 (1)					1106.692	963.501

Quantitation Report

Signal #1 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062806\002F0101.D Vial: 2  
Signal #2 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062806\002R0101.D  
Acq On : 28 Jun 06 08:50 AM Operator: [GC]2R0101.I  
Sample : 1660 CC Inst : GC5  
Misc : Multiplr: 1.00  
Quant Time: Jun 29 8:59 19106

Method : Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Title :  
Last Update : Mon Jul 10 09:21:55 2006  
Response via : Multiple Level Calibration

Volume Inj. : 2 uL  
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
Signal #1 Info : 0.32 Signal #2 Info : 0.32



Quantitation Report

Signal #1 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062806\027F0101.D Vial: 27  
 Signal #2 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062806\027F0101.D\027R0101.D  
 Acq On : 28 Jun 06 04:30 PM Operator: [GC]7R0101.I  
 Sample : 1660 CC Inst : GC5  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 29 9:45 19106

Method : Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Title :  
 Last Update : Mon Jul 10 09:21:55 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 2 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.32 Signal #2 Info : 0.32

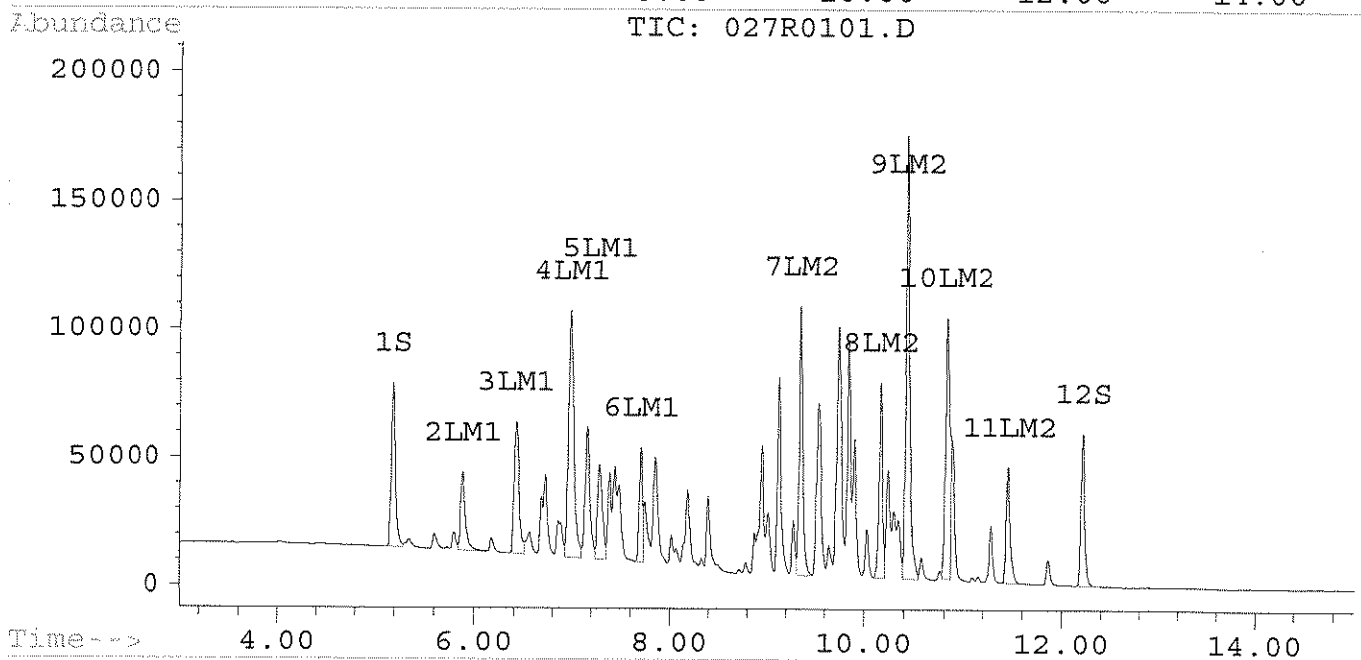
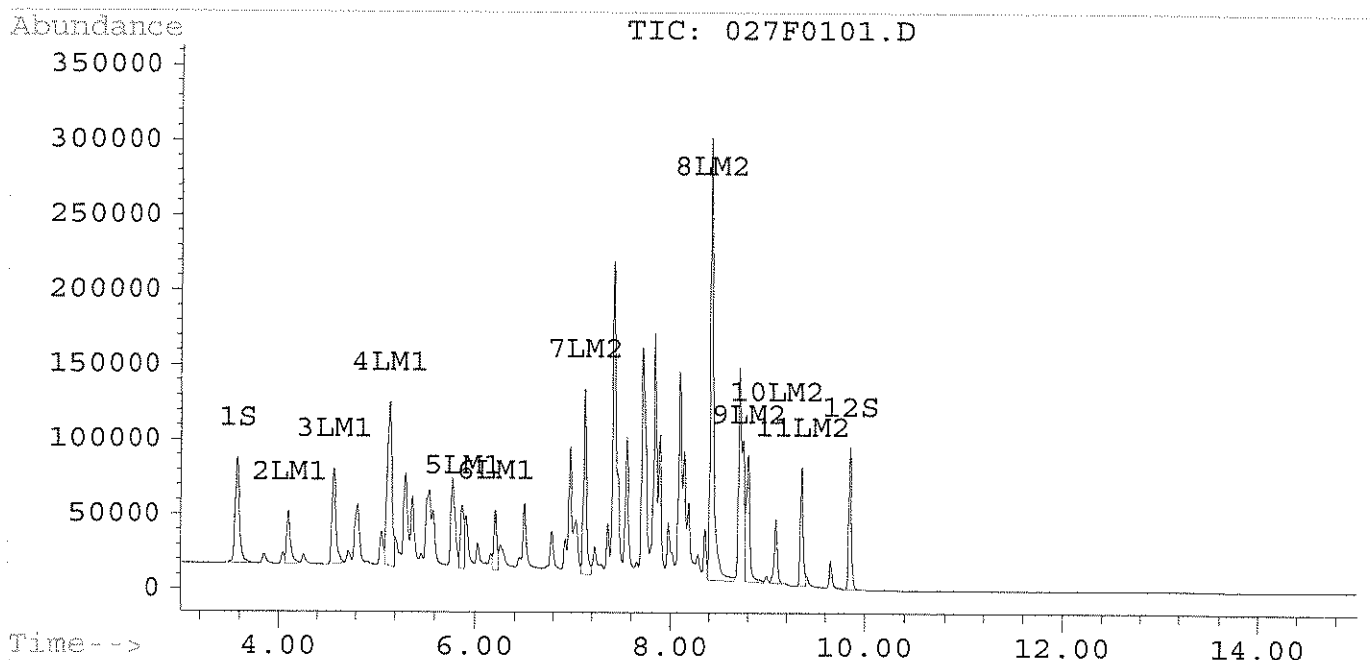
Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xylen	3.58	5.18	2137634	1853506	39.070	38.711
			Recovery	=	78.14%	77.42%
12) S Decachlorobiphenyl	9.85	12.22	1842543	1555138	40.565	40.303
			Recovery	=	81.13%	80.61%
Target Compounds						
2) LM1 AR1016 (1)	4.11	5.89	1024582	1033987	914.337	913.325
3) LM1 AR1016 (2)	4.57	6.42	1837744	1803286	979.098	1029.549
4) LM1 AR1016 (3)	5.14	6.99	3700462	3666741	1042.067m	1015.223
5) LM1 AR1016 (4)	5.88	7.28	1059105	1307363	1052.210	944.990
6) LM1 AR1016 (5)	6.21	7.70	892511	1007125	984.885	956.838
Total AR1016 (1)			8514403	8818503	4972.597	4859.923
Average AR1016 (1)					994.519	971.985
7) LM2 AR1260 (1)	7.13	9.35	2688629	2613161	1094.367	896.367
8) LM2 AR1260 (2)	8.42	10.17	6952892	1813827	1122.070	862.789
9) LM2 AR1260 (3)	8.80	10.43	2257192	4442756	1043.681	974.167
10) LM2 AR1260 (4)	9.09	10.83	949234	2855576	1113.398	1001.059m
11) LM2 AR1260 (5)	9.36	11.46	1536694	1157967	1052.791m	983.771
Total AR1260 (1)			14384640	12883288	5426.308	4718.152
Average AR1260 (1)					1085.262	943.630

Quantitation Report

Signal #1 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062806\027F0101.D Vial: 27  
Signal #2 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062806\027R0101.D  
Acq On : 28 Jun 06 04:30 PM Operator: [GC]7R0101.I  
Sample : 1660 CC Inst : GC5  
Misc : Multiplr: 1.00  
Quant Time: Jun 29 9:45 19106

Method : Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Title :  
Last Update : Mon Jul 10 09:21:55 2006  
Response via : Multiple Level Calibration

Volume Inj. : 2 uL  
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
Signal #1 Info : 0.32 Signal #2 Info : 0.32



## ANALYSIS SEQUENCE

BPG0303

Instrument: SVOAGC5

Calibration ID: UNASSIGNED 8082CX

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0303-CCV1	QC		1		6F23058		
BF62333-BS1	QC		2				
BF62333-BSD1	QC		3				
BPG0303-CCV2	QC		4		6F23058		

Samples Loaded By

Date

Data Processed By

Date

# ESS LABORATORY GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II

Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/26/00	99	660666-99	12984	✓ 800208	6F23078 6F23166	M
	100	-100	12984	✓	61	
6/26/00	97	-97	16600		58	
	18	-18	AF62317-9127	✓		M
	19	-19	-851	✓		
	20	-20	-1350	✓		
	21	-21	0606373-4	✓		
	22	-22	-03	✓	57	
	23	-23	-05	✓		
	24	-24	-07	✓		
	25	-25	-09	✓		
	26	-26	-09m1	✓		
	27	-27	-09m30	✓		
	28	-28	-12	✓		
	29	-29	-14	✓		
	30	-30	-16	✓		
	31	-31	-18	✓		
	32	-32	-20	✓		
	33	-33	0606374-01	✓		
	34	-34	-03	✓		
	35	-35	-05	✓		
	36	-36	-07	✓		
	37	-37	-09	✓		
	91	-91	12984			
	92	-92	16600		6F23078 6F23166 80:04	
	93	-93	12984		57	
	94	-94	12984		60	
	95	-95	12984		61	
	96	-96	16600	✓	6F23078 58	
6/26/00	38	-38	0606374-11	✓ 800208		

CONTROL NUMBER 60.0031-0603A

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# ESS LABORATORY GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II

Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/22/11	39	60262600-31	0603374-13	8002cy		M
	40	-40	-13			
	41	-41	BF62333-01K1			
	42	-42	BF62333-01K1			
	43	-43	0603334-01			
	44	-44	0603334-01			
	45	-45	0603334-01			
	51	-51	149			
	52	-52	1660cy		GF23058 CCV2 4:1FAM	
	53	-53	1242cy		59	
	54	-54	1245cy		60	
	55	-55	1244cy		61	
6/22/11	52	60262600-52	1660cy	8002cy	GF23058	N
6/27/11	1	60262700-01	H6 HEP	8002cy		M
	2	-02	1660cy		GF23058	
	3	-03	1242cy		59	
	4	-04	1245cy		60	
6/27/11	5	60262700-05	1244cy	8002cy	GF23061	N
6/28/11	1	60262800-01	HEP	8002cy	GF23061 6/27/11	M
	2	-02	1660cy		GF23058	
	3	-03	1242cy		59	
	4	-04	1245cy		60	
	5	-05	1244cy		GF23061	
	6	-06	BF62219-01K1		5X CONC	
	7	-07	0603346-01		5X CONC	
	8	-08	0603346-02		5X CONC	
	9	-09	0603346-03		5X CONC	
	10	-10	0603372-036		5X CONC	
	11	-11	-036			
6/28/11	12	60262800-12	BF62219-01K1	8002cy	5X CONC	N

2011/07/04 65

Signal #1 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\092F0201.D Vial: 92  
 Signal #2 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\092F0201.D\092R0201.D  
 Acq On : 27 Jun 06 00:04 AM Operator: [GC]2R0201.D\DATA.MS  
 Sample : 1660 CC Inst : GC5  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 27 8:17 19106

Method : Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Title :  
 Last Update : Mon Jul 10 09:21:55 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 2 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.32 Signal #2 Info : 0.32

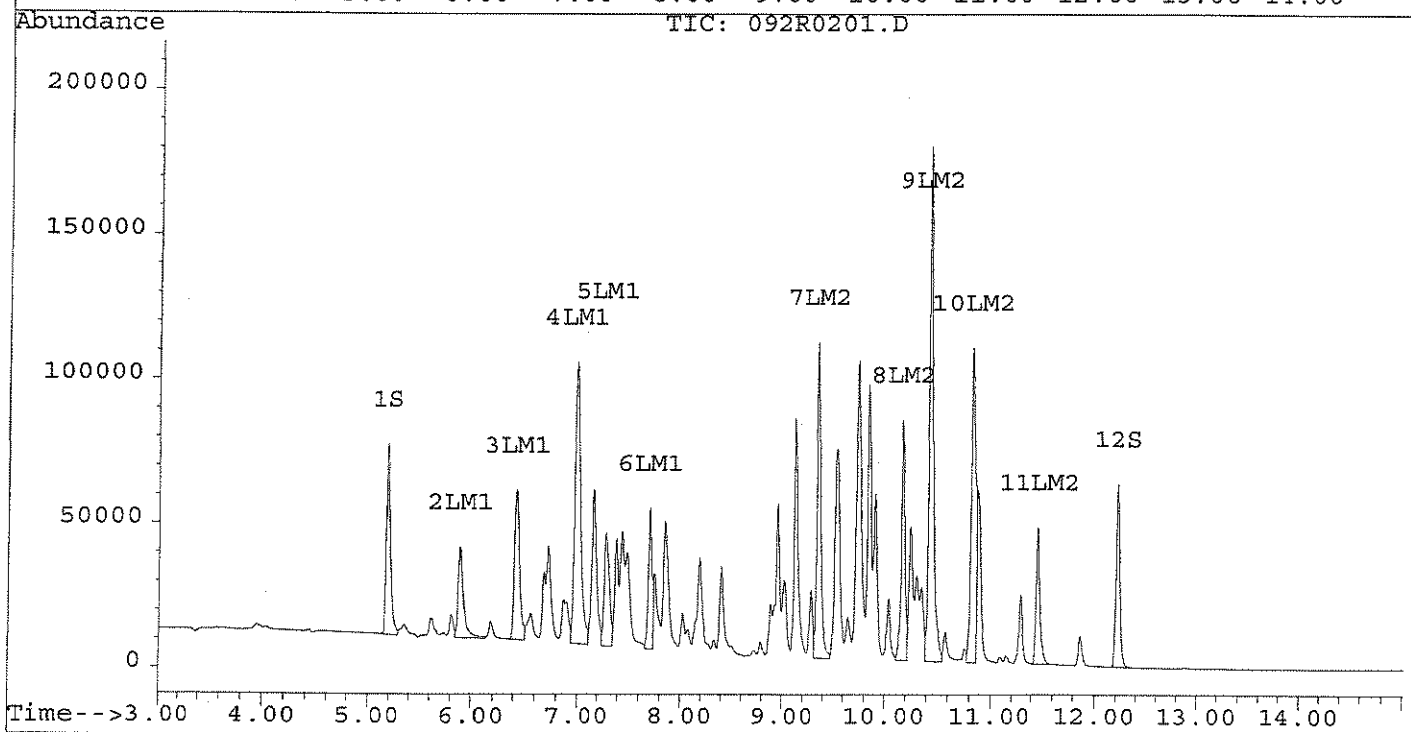
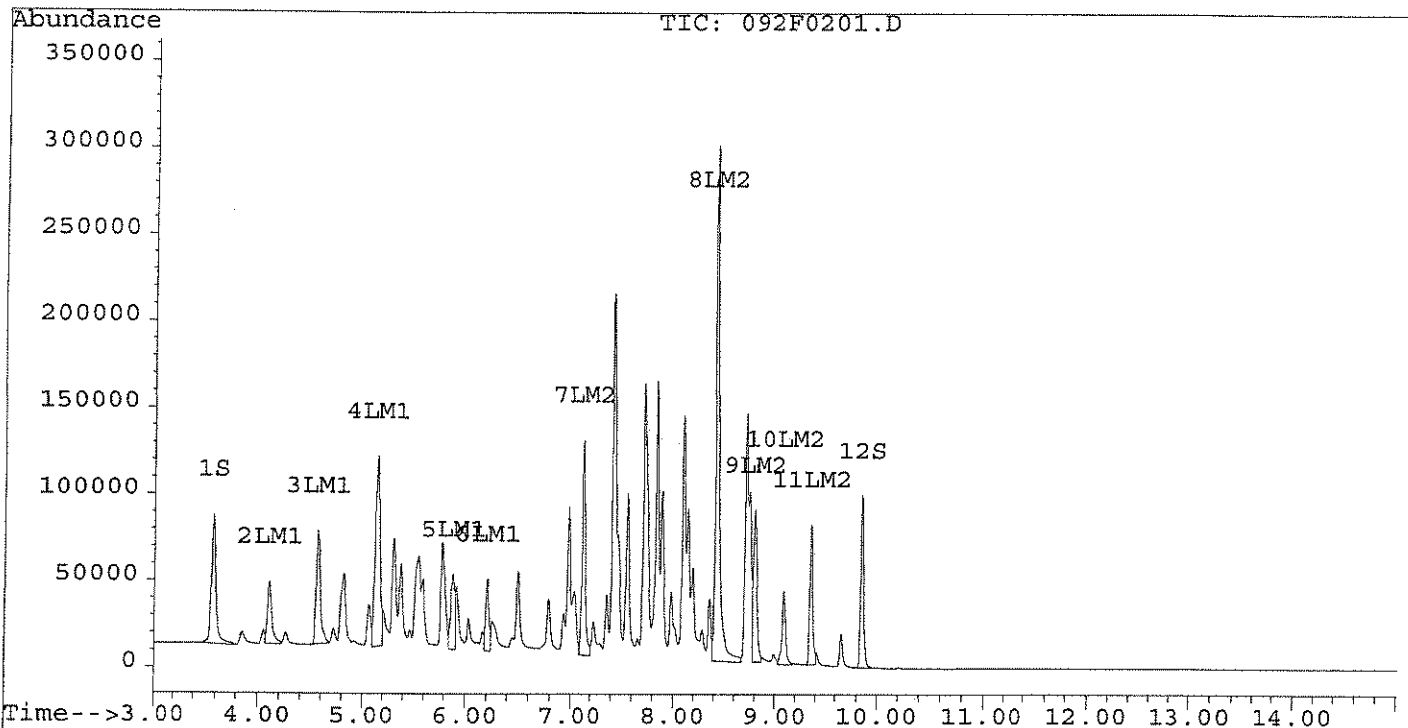
Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xylene	3.58	5.19	2254638	1892985	41.295	39.568
			Recovery	=	82.59%	79.14%
12) S Decachlorobiphenyl	9.85	12.22	1933789	1655575	42.799	43.108
			Recovery	=	85.60%	86.22%
Target Compounds						
2) LM1 AR1016 (1)	4.11	5.89	1060960	1124695	948.804	998.336
3) LM1 AR1016 (2)	4.57	6.42	1871948	1790976	999.233	1022.000
4) LM1 AR1016 (3)	5.14	6.99	3729006	3821924	1050.894m	1061.494
5) LM1 AR1016 (4)	5.88	7.28	1082096	1435871	1076.637	1042.334
6) LM1 AR1016 (5)	6.21	7.71	923807	1120821	1021.515	1073.893
Total AR1016 (1)			8667817	9294288	5097.082	5198.056
Average AR1016 (1)					1019.416	1039.611
7) LM2 AR1260 (1)	7.13	9.35	2731149	2855291	1113.724	986.976
8) LM2 AR1260 (2)	8.42	10.17	7145142	2028906	1155.545	972.659
9) LM2 AR1260 (3)	8.80	10.43	2159046	4738178	995.076m	1042.800
10) LM2 AR1260 (4)	9.09	10.83	1034918	3079264	1218.838m	1085.370m
11) LM2 AR1260 (5)	9.36	11.46	1613342	1207351	1108.336m	1026.499
Total AR1260 (1)			14683596	13908990	5591.518	5114.305
Average AR1260 (1)					1118.304	1022.861



Signal #1 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\092F0201.D Vial: 92  
 Signal #2 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\092F0201.D\092R0201.D  
 Acq On : 27 Jun 06 00:04 AM Operator: [GC]2R0201.D\DATA.MS  
 Sample : 1660 CC Inst : GC5  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 27 8:17 19106

Method : Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Title :  
 Last Update : Mon Jul 10 09:21:55 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 2 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.32 Signal #2 Info : 0.32



Signal #1 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\092F0501.D Vial: 92  
 Signal #2 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\092F0501.D\092R0501.D  
 Acq On : 27 Jun 06 04:18 AM Operator: [GC]2R0501.D\DATA.MS  
 Sample : 1660 CC Inst : GC5  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 27 8:20 19106

Method : Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Title :  
 Last Update : Mon Jul 10 09:21:55 2006  
 Response via : Multiple Level Calibration

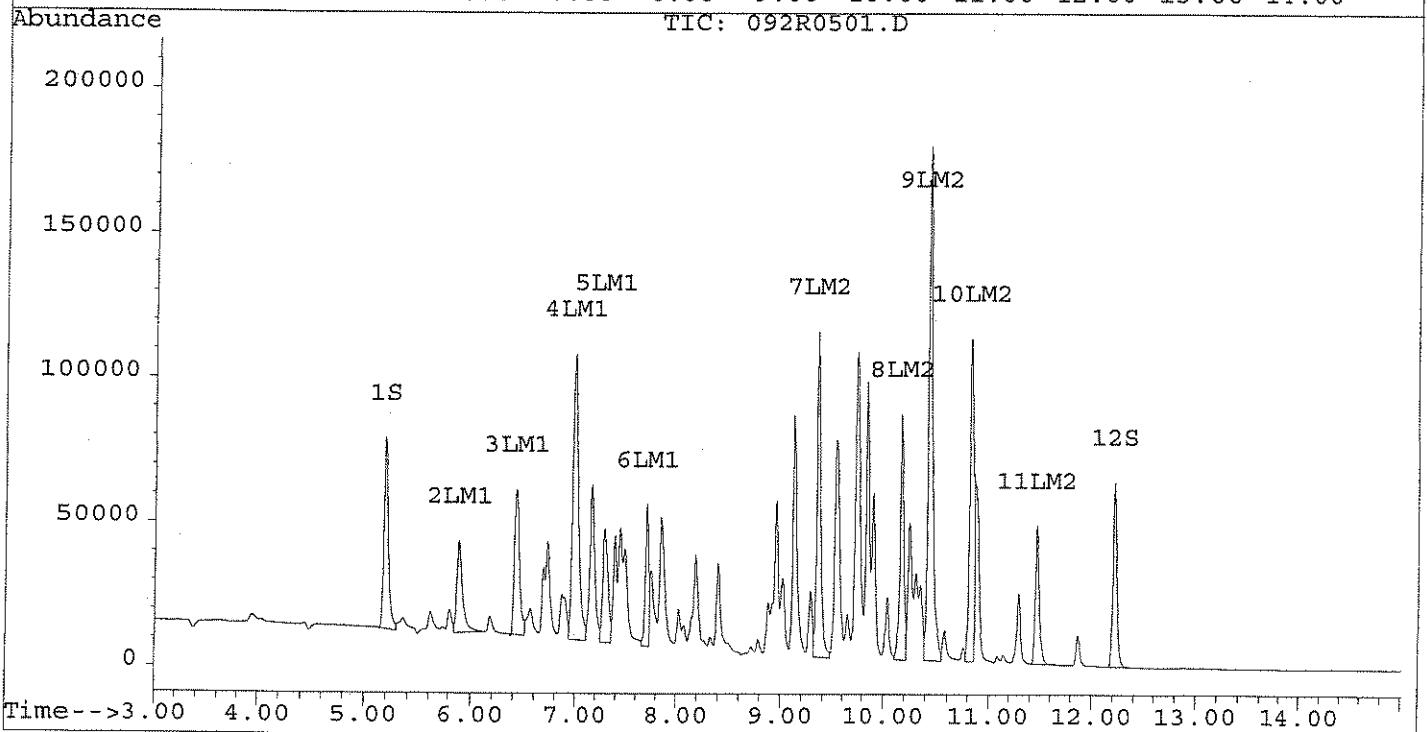
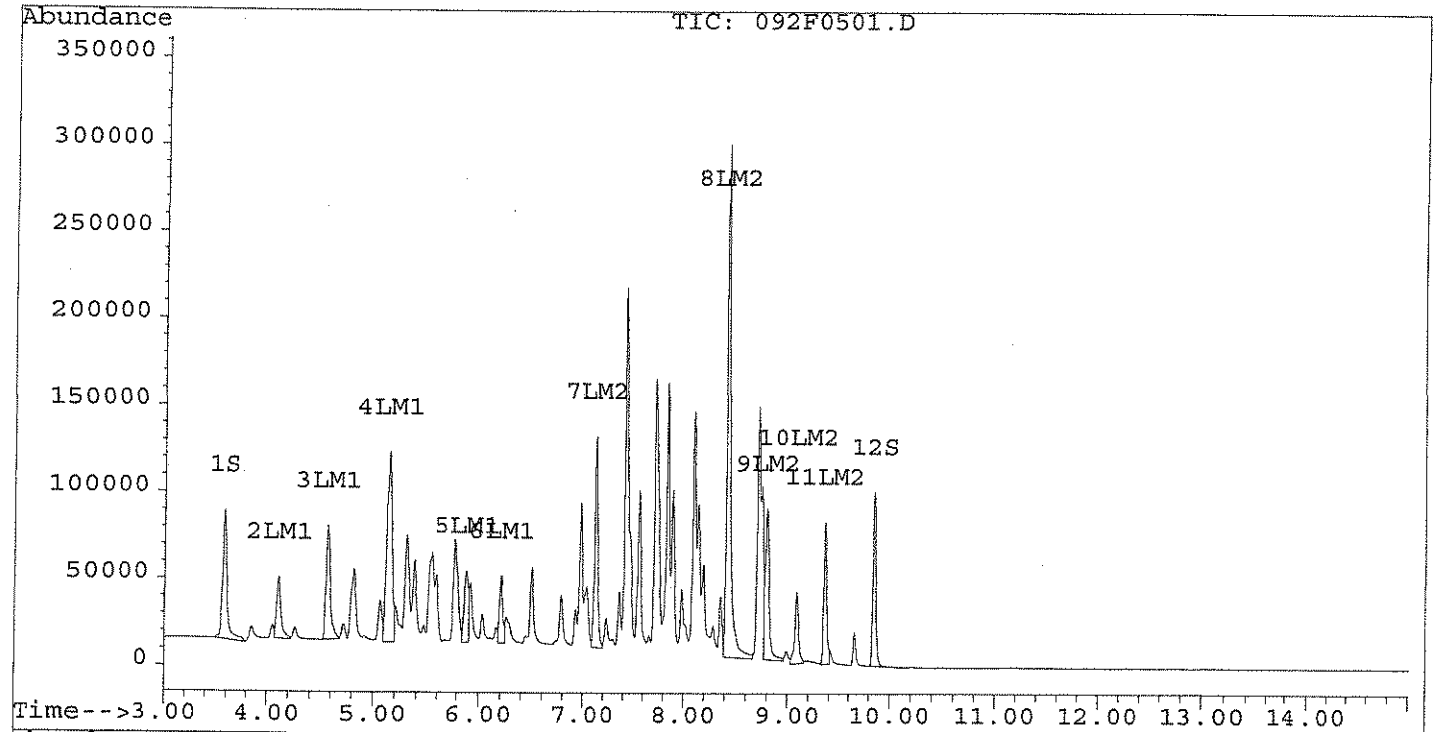
Volume Inj. : 2 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xylene	3.58	5.19	2335731	1920788	42.836	40.171
			Recovery	=	85.67%	80.34%
12) S Decachlorobiphenyl	9.85	12.22	1952708	1667803	43.262	43.449
			Recovery	=	86.52%	86.90%
Target Compounds						
2) LM1 AR1016 (1)	4.11	5.89	1036451	1093915	925.582	969.488
3) LM1 AR1016 (2)	4.57	6.43	1876568	1735270	1001.952	987.841
4) LM1 AR1016 (3)	5.14	6.99	3700304	3859390	1042.018m	1072.665
5) LM1 AR1016 (4)	5.88	7.28	1015496	1444938	1005.878	1049.202
6) LM1 AR1016 (5)	6.21	7.71	834871	1133156	917.421	1086.592
Total AR1016 (1)			8463689	9266668	4892.851	5165.788
Average AR1016 (1)					978.570	1033.158
7) LM2 AR1260 (1)	7.13	9.35	2539206	2944323	1026.346	1020.293
8) LM2 AR1260 (2)	8.42	10.17	6998463	2071235	1130.005	994.282
9) LM2 AR1260 (3)	8.80	10.43	2366163	4795498	1097.647	1056.117
10) LM2 AR1260 (4)	9.09	10.83	1025812	3012262	1207.633m	1060.116m
11) LM2 AR1260 (5)	9.36	11.46	1645124	1223759	1131.368m	1040.696
Total AR1260 (1)			14574768	14047077	5592.999	5171.505
Average AR1260 (1)					1118.600	1034.301

Signal #1 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\092F0501.D Vial: 92  
Signal #2 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\092R0501.D  
Acq On : 27 Jun 06 04:18 AM Operator: [GC]2R0501.D\DATA.MS  
Sample : 1660 CC Inst : GC5  
Misc : Multiplr: 1.00  
Quant Time: Jun 27 8:20 19106

Method : Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Title :  
Last Update : Mon Jul 10 09:21:55 2006  
Response via : Multiple Level Calibration

Volume Inj. : 2 uL  
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
Signal #1 Info : 0.32 Signal #2 Info : 0.32



# PCB Logbooks



**DETERMINATION OF PCDD/PCDF LEVELS**

**Prepared for:**  
**ESS Laboratory**  
**Attn: Jena Paola**  
**185 Frances Avenue**  
**Cranston, RI 02910-2211**



This report contains 13 pages.

The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

**Project: Chemical Analysis**

**Client Project Number: 0606372**

**REPORT OF LABORATORY ANALYSIS**

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**REPORT OF: CHEMICAL ANALYSES**

**PROJECT:** PCDD/PCDF ANALYSES

**DATE:** July 10, 2006

**ISSUED TO:** ESS Laboratory  
Attn: Jena Paola  
185 Frances Avenue  
Cranston, RI 02910-2211

**REPORT NO:** 06-1034229

**INTRODUCTION**

This report presents the results from the analyses performed on one sample submitted by a representative of ESS Laboratory. The sample was analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290.

**SAMPLE IDENTIFICATION**

<u>Client ID</u>	<u>Sample Type</u>	<u>Date Received</u>	<u>PACE ID</u>
0606372-03	Water	06/23/06	1034229001

**RESULTS**

The results are included in the following:

- Appendix A – Chain of Custody Documentation
- Appendix B – PCDD/PCDF Results

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**REPORT OF: CHEMICAL ANALYSES**

**PROJECT: PCDD/PCDF ANALYSES**

**DATE: July 10, 2006**

**PAGE: 2**

**REPORT NO: 06-1034229**

**DISCUSSION**

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extract ranged from 75-116%. All of the labeled standard recoveries obtained for the sample were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

The responses for two analytes in ending calibration F60705A\_18 were outside the target range for this method. The average response factors from the bracketing continuing calibrations were used to quantify the samples, as described in the method.

In some cases, interfering substances impacted the determinations of PCDD or PCDF congeners. The affected values were flagged "E" where polychlorinated diphenyl ethers were present.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results, found at the beginning of Appendix B, show the blank to contain trace levels of selected PCDDs and PCDFs. These levels were below the calibration range of the method. Sample levels similar to the corresponding blank levels were flagged "B" on the results tables and may be, at least partially, attributed to the background. It should be noted that levels less than ten times the background are not generally considered to be statistically different from the background.

Laboratory spike samples were also prepared with the sample batch using clean sand that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 99-157%, with relative percent differences of 0.0-24.3%. The OCDD recovery in LCS-10090 was above the target range for this method and could indicate a high bias for this analyte. The remaining results indicate high degrees of accuracy and precision for these determinations.

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**REPORT OF: CHEMICAL ANALYSES**

**PROJECT: PCDD/PCDF ANALYSES**

**DATE: July 10, 2006**

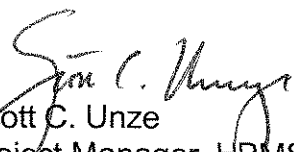
**PAGE: 3**

**REPORT NO: 06-1034229**

**REMARKS**

The sample extracts will be retained for a period of 15 days from the date of this report and then discarded unless other arrangements are made. The raw mass spectral data will be archived on magnetic tape for a period of not less than one year. Questions regarding the data contained in this report may be directed to the author at the number provided below.

**Pace Analytical Services, Inc.**



Scott C. Unze  
Project Manager, HRMS  
(612) 607-6383

**REPORT OF LABORATORY ANALYSIS**

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**TABLE 1. 2,3,7,8-TCDD Equivalency Factors (TEFs) for the Polychlorinated Dibenzo-p-dioxins and Dibenzofurans**

Number	Compound(s)	TEF
1	2,3,7,8-TCDD	1.00
2	1,2,3,7,8-PeCDD	0.50
3	1,2,3,6,7,8-HxCDD	0.1
4	1,2,3,7,8,9-HxCDD	0.1
5	1,2,3,4,7,8-HxCDD	0.1
6	1,2,3,4,6,7,8-HpCDD	0.01
7	OCDD	0.001
8	* Total - TCDD	0.0
9	* Total - PeCDD	0.0
10	* Total - HxCDD	0.0
11	* Total - HpCDD	0.0
12	2,3,7,8-TCDF	0.10
13	1,2,3,7,8-PeCDF	0.05
14	2,3,4,7,8-PeCDF	0.5
15	1,2,3,6,7,8-HxCDF	0.1
16	1,2,3,7,8,9-HxCDF	0.1
17	1,2,3,4,7,8-HxCDF	0.1
18	2,3,4,6,7,8-HxCDF	0.1
19	1,2,3,4,6,7,8-HpCDF	0.01
20	1,2,3,4,7,8,9-HpCDF	0.01
21	OCDF	0.001
22	* Total - TCDF	0.0
23	* Total - PeCDF	0.0
24	* Total - HxCDF	0.0
25	* Total - HpCDF	0.0

\*Excluding the 2,3,7,8-substituted congeners.

Reference: International Toxic Equivalence

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**APPENDIX A**

**REPORT OF LABORATORY ANALYSIS**

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**APPENDIX B**

**REPORT OF LABORATORY ANALYSIS**

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**Method 8290 Blank Analysis Results**

Client - ESS Laboratory

Lab Sample ID	BLANK-10089	Matrix	Water
Filename	F60706A_09	Dilution	NA
Total Amount Extracted	939 mL	Extracted	07/03/2006
ICAL Date	05/31/2006	Analyzed	07/06/2006 18:26
CCal Filename(s)	F60706A_04 & F60706A_20	Injected By	SMT

Native Isomers	Conc pg/L	EMPC pg/L	LRL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	2.1	2,3,7,8-TCDF-13C	2.00	98
Total TCDF	ND	----	2.1	2,3,7,8-TCDD-13C	2.00	92
				1,2,3,7,8-PeCDF-13C	2.00	88
2,3,7,8-TCDD	ND	----	2.1	2,3,4,7,8-PeCDF-13C	2.00	88
Total TCDD	ND	----	2.1	1,2,3,7,8-PeCDD-13C	2.00	101
				1,2,3,4,7,8-HxCDF-13C	2.00	90
1,2,3,7,8-PeCDF	ND	----	11.0	1,2,3,6,7,8-HxCDF-13C	2.00	86
2,3,4,7,8-PeCDF	ND	----	11.0	2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	ND	----	11.0	1,2,3,7,8,9-HxCDF-13C	2.00	96
				1,2,3,4,7,8-HxCDD-13C	2.00	91
1,2,3,7,8-PeCDD	ND	----	11.0	1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD	ND	----	11.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	69
				1,2,3,4,7,8,9-HpCDF-13C	2.00	65
1,2,3,4,7,8-HxCDF	ND	----	11.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	77
1,2,3,6,7,8-HxCDF	ND	----	11.0	OCDD-13C	4.00	71
2,3,4,6,7,8-HxCDF	ND	----	11.0			
1,2,3,7,8,9-HxCDF	ND	----	11.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	11.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	11.0	2,3,7,8-TCDD-37Cl4	0.20	102
1,2,3,6,7,8-HxCDD	ND	----	11.0			
1,2,3,7,8,9-HxCDD	ND	----	11.0			
Total HxCDD	ND	----	11.0			
1,2,3,4,6,7,8-HpCDF	ND	----	11.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	11.0	Equivalence: 0.29 pg/L		
Total HpCDF	ND	----	11.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	18	----	11.0 J			
Total HpCDD	30	----	11.0 J			
OCDF	ND	----	21.0			
OCDD	110	----	21.0 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).  
EMPC = Estimated Maximum Possible Concentration  
LRL = Lower Reporting Limit  
J = Concentration detected is below the calibration range  
P = Recovery outside of target range  
A = Detection Limit based on signal-to-noise measurement

I = Interference  
E = PCDE Interference  
ND = Not Detected  
NA = Not Applicable  
NC = Not Calculated  
\* = See Discussion

Report No.....1034229

**REPORT OF LABORATORY ANALYSIS**

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

---

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SW27  
Date Sampled: 06/22/06 12:00

ESS Laboratory Work Order: 0606372  
ESS Laboratory Sample ID: 0606372-03  
Sample Matrix: Surface Water

### Dioxins

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Dioxin	See Attached								



Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID 0606372-03
Lab Sample ID 1034229001
Filename F60705A\_07
Injected By SMT
Total Amount Extracted 987 mL
% Moisture NA
Dry Weight Extracted NA
ICAL Date 05/31/2006
CCal Filename(s) F60705A\_03 & F60705A\_18
Method Blank ID BLANK-10089
Matrix Water
Dilution NA
Collected 06/22/2006
Received 06/23/2006
Extracted 07/03/2006
Analyzed 07/05/2006 14:54

Table with 7 columns: Native Isomers, Conc ng/L, EMPC ng/L, LRL ng/L, Internal Standards, ng's Added, Percent Recovery. Rows include TCDF, TCDD, PeCDF, PeCDD, HxCDF, HxCDD, HpCDF, HpCDD, OCDF, and OCDD.

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
\* = See Discussion

Report No.....1034229

REPORT OF LABORATORY ANALYSIS



**Method 8290 Laboratory Control Spike Results**

Client - ESS Laboratory

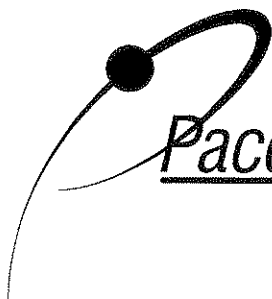
Lab Sample ID	LCS-10090	Matrix	Water
Filename	F60706A_05	Dilution	NA
Total Amount Extracted	909 mL	Extracted	07/03/2006
ICAL Date	05/31/2006	Analyzed	07/06/2006 15:07
CCal Filename(s)	F60706A_04 & F60706A_20	Injected By	SMT
Method Blank ID	BLANK-10089		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	107	2,3,7,8-TCDF-13C	2.00	89
				2,3,7,8-TCDD-13C	2.00	89
				1,2,3,7,8-PeCDF-13C	2.00	83
2,3,7,8-TCDD	0.20	0.21	104	2,3,4,7,8-PeCDF-13C	2.00	80
				1,2,3,7,8-PeCDD-13C	2.00	93
				1,2,3,4,7,8-HxCDF-13C	2.00	73
1,2,3,7,8-PeCDF	1.00	1.19	119	1,2,3,6,7,8-HxCDF-13C	2.00	70
2,3,4,7,8-PeCDF	1.00	1.07	107	2,3,4,6,7,8-HxCDF-13C	2.00	75
				1,2,3,7,8,9-HxCDF-13C	2.00	82
				1,2,3,4,7,8-HxCDD-13C	2.00	70
1,2,3,7,8-PeCDD	1.00	0.99	99	1,2,3,6,7,8-HxCDD-13C	2.00	62
				1,2,3,4,6,7,8-HpCDF-13C	2.00	55
				1,2,3,4,7,8,9-HpCDF-13C	2.00	56
1,2,3,4,7,8-HxCDF	1.00	1.00	100	1,2,3,4,6,7,8-HpCDD-13C	2.00	66
1,2,3,6,7,8-HxCDF	1.00	1.08	108	OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	1.00	1.06	106			
1,2,3,7,8,9-HxCDF	1.00	1.04	104	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.11	111	2,3,7,8-TCDD-37Cl4	0.20	104
1,2,3,6,7,8-HxCDD	1.00	1.17	117			
1,2,3,7,8,9-HxCDD	1.00	1.30	130			
1,2,3,4,6,7,8-HpCDF	1.00	1.18	118			
1,2,3,4,7,8,9-HpCDF	1.00	1.20	120			
1,2,3,4,6,7,8-HpCDD	1.00	1.06	106			
OCDF	2.00	2.26	113			
OCDD	2.00	3.15	157 P			

Qs = Quantity Spiked  
Qm = Quantity Measured  
Rec. = Recovery (Expressed as Percent)  
P = Recovery outside of target range  
X = Background subtracted value  
Nn = Value obtained from additional analysis  
NA = Not Applicable  
\* = See Discussion

Report No.....1034229

**REPORT OF LABORATORY ANALYSIS**



## Method 8290 Laboratory Control Spike Results

Client - ESS Laboratory

Lab Sample ID	LCSD-10091	Matrix	Water
Filename	F60706A_06	Dilution	NA
Total Amount Extracted	940 mL	Extracted	07/03/2006
ICAL Date	05/31/2006	Analyzed	07/06/2006 15:56
CCal Filename(s)	F60706A_04 & F60706A_20	Injected By	SMT
Method Blank ID	BLANK-10089		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	107	2,3,7,8-TCDF-13C	2.00	95
				2,3,7,8-TCDD-13C	2.00	86
				1,2,3,7,8-PeCDF-13C	2.00	87
2,3,7,8-TCDD	0.20	0.22	110	2,3,4,7,8-PeCDF-13C	2.00	83
				1,2,3,7,8-PeCDD-13C	2.00	97
				1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	1.00	1.23	123	1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	1.00	1.09	109	2,3,4,6,7,8-HxCDF-13C	2.00	79
				1,2,3,7,8,9-HxCDF-13C	2.00	83
				1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	1.00	1.05	105	1,2,3,6,7,8-HxCDD-13C	2.00	71
				1,2,3,4,6,7,8-HpCDF-13C	2.00	64
				1,2,3,4,7,8,9-HpCDF-13C	2.00	61
1,2,3,4,7,8-HxCDF	1.00	1.04	104	1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	1.00	1.14	114	OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	1.00	1.10	110			
1,2,3,7,8,9-HxCDF	1.00	1.12	112	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.23	123	2,3,7,8-TCDD-37Cl4	0.20	99
1,2,3,6,7,8-HxCDD	1.00	1.19	119			
1,2,3,7,8,9-HxCDD	1.00	1.30	130			
1,2,3,4,6,7,8-HpCDF	1.00	1.22	122			
1,2,3,4,7,8,9-HpCDF	1.00	1.25	125			
1,2,3,4,6,7,8-HpCDD	1.00	1.04	104			
OCDF	2.00	2.40	120			
OCDD	2.00	2.46	123			

Qs = Quantity Spiked  
 Qm = Quantity Measured  
 Rec. = Recovery (Expressed as Percent)  
 P = Recovery outside of target range  
 X = Background subtracted value  
 Nn = Value obtained from additional analysis  
 NA = Not Applicable  
 \* = See Discussion

Report No.....1034229

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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**SPIKE RECOVERY RELATIVE PERCENT DIFFERENCE (RPD) RESULTS**

Client..... ESS Laboratory

SPIKE 1 ID..... LCS-10090  
SPIKE 1 Filename..... F60706A\_05  
SPIKE 2 ID..... LCSD-10091  
SPIKE 2 Filename..... F60706A\_06

COMPOUND	SPIKE 1 REC,%	SPIKE 2 REC,%	RPD,%
2378-TCDF	107	107	0.0
2378-TCDD	104	110	5.6
12378-PeCDF	119	123	3.3
23478-PeCDF	107	109	1.9
12378-PeCDD	99	105	5.9
123478-HxCDF	100	104	3.9
123678-HxCDF	108	114	5.4
234678-HxCDF	106	110	3.7
123789-HxCDF	104	112	7.4
123478-HxCDD	111	123	10.3
123678-HxCDD	117	119	1.7
123789-HxCDD	130	130	0.0
1234678-HpCDF	118	122	3.3
1234789-HpCDF	120	125	4.1
1234678-HpCDD	106	104	1.9
OCDF	113	120	6.0
OCDD	157	123	24.3

REC = Percent Recovered

RPD = The difference between the two values divided by the average.

NA = Not Applicable

Report No..... 1034229

**REPORT OF LABORATORY ANALYSIS**

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# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606372

### Notes and Definitions

Z-08	See Attached
+	Outside QC Limits.
ND	Analyte NOT DETECTED above the detection limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
mg/kg	Results reported as wet weight
TCLP	Toxicity Characteristic Leachate Procedure
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
TIC	A forward library search of the NBS Mass Spectral Library was performed on this sample using the McLafferty Probability Base Matching (PBM) Algorithm. An estimated concentration of non-TCL compounds tentatively identified is quantified by the internal standard method. The nearest internal standard free of interferences was used to quantify. A response factor of one was assumed. This search was inclusive of the ten largest peaks greater than ten percent of the nearest internal standard.
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
¶	The state of RI does not grant certification for this method for non-potables.

**Sample and Cooler Receipt Checklist**

Client: Mactec  
 Client Project ID: \_\_\_\_\_  
 Shipped/Delivered Via: Client

ESS Project ID: 06060372  
 Date Project Due: 6/29/06  
 Days For Project: 5 Day

**Items to be checked upon receipt:**

- |   |                               |   |   |
|---|-------------------------------|---|---|
| 1. Air Bill Manifest Present?   | <input type="checkbox"/> * No | 10. Are the samples properly preserved?   | <input type="checkbox"/> Yes  |
| Air No.:  |                               | 11. Proper sample containers used?        | <input type="checkbox"/> Yes  |
| 2. Were Custody Seals Present?  | <input type="checkbox"/> No   | 12. Any air bubbles in the VOA vials?     | <input type="checkbox"/> N/A  |
| 3. Were Custody Seals Intact?   | <input type="checkbox"/> N/A  | 13. Holding times exceeded?               | <input type="checkbox"/> No   |
| 4. Is Radiation count < 100 CPM?  | <input type="checkbox"/> Yes  | 14. Sufficient sample volumes?            | <input type="checkbox"/> Yes  |
| 5. Is a cooler present?   | <input type="checkbox"/> Yes  | 15. Any Subcontracting needed?            | <input type="checkbox"/> * Yes                                      |
| Cooler Temp: <u>3.5</u>   |                               | 16. Are ESS labels on correct containers? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Iced With: <u>Icepacks</u>  |                               | 17. Were samples received intact?         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 6. Was COC included with samples?   | <input type="checkbox"/> Yes  | ESS Sample IDs: <u>03</u>                 |   |
| 7. Was COC signed and dated by client?  | <input type="checkbox"/> Yes  | Sub Lab: <u>Pace ChemTech</u>             |   |
| 8. Does the COC match the sample  | <input type="checkbox"/> Yes  | Analysis: <u>DIOXINS FOC</u>              |   |
| 9. Is COC complete and correct?   | <input type="checkbox"/> Yes  | TAT: <u>STD</u>                           |   |
| 18. Was there need to call project manager to discuss status? If yes, please explain. |                               |   |   |

\_\_\_\_\_  
 \_\_\_\_\_

Who was called?: \_\_\_\_\_ By whom? \_\_\_\_\_

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	1 L Glass	2	NP
1	Yes	40 ml - VOA	3	HCL
1	Yes	500 ml Plastic	3	HNO3
2	Yes	1 L Glass	2	NP
2	Yes	40 ml - VOA	3	HCL
2	Yes	500 ml Plastic	3	HNO3
3	Yes	1 L Glass	8	NP
3	Yes	40 ml - VOA	3	HCL
3	Yes	500 ml Plastic	3	HNO3

Completed By: JTD JTD Date/Time: 6-22-06  
 Reviewed By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

**Sample and Cooler Receipt Checklist**

Client: Mactec  
 Client Project ID: \_\_\_\_\_  
 Shipped/Delivered Via: Client

ESS Project ID: 06060372  
 Date Project Due: 6/29/06  
 Days For Project: 5 Day

**Items to be checked upon receipt:**

- |  |                                   |   |                                     |
|--|-----------------------------------|---|-------------------------------------|
| 1. Air Bill Manifest Present?                    | <input type="text" value="* No"/> | 10. Are the samples properly preserved?   | <input type="text" value="Yes"/>    |
| Air No.:   |                                   | 11. Proper sample containers used?        | <input type="text" value="Yes"/>    |
| 2. Were Custody Seals Present?                   | <input type="text" value="No"/>   | 12. Any air bubbles in the VOA vials?     | <input type="text" value="N/A"/>    |
| 3. Were Custody Seals Intact?                    | <input type="text" value="N/A"/>  | 13. Holding times exceeded?               | <input type="text" value="No"/>     |
| 4. Is Radiation count < 100 CPM?                 | <input type="text" value="Yes"/>  | 14. Sufficient sample volumes?            | <input type="text" value="Yes"/>    |
| 5. Is a cooler present?                          | <input type="text" value="Yes"/>  | 15. Any Subcontracting needed?            | <input type="text" value="* Yes"/>  |
| <input type="text" value="Cooler Temp: 3.5"/>    |                                   | 16. Are ESS labels on correct containers? | <input type="text" value="Yes No"/> |
| <input type="text" value="Iced With: Icepacks"/> |                                   | 17. Were samples received intact?         | <input type="text" value="Yes No"/> |
| 6. Was COC included with samples?                | <input type="text" value="Yes"/>  | ESS Sample IDs: _____                     |                                     |
| 7. Was COC signed and dated by client?           | <input type="text" value="Yes"/>  | Sub Lab: _____                            |                                     |
| 8. Does the COC match the sample                 | <input type="text" value="Yes"/>  | Analysis: _____                           |                                     |
| 9. Is COC complete and correct?                  | <input type="text" value="Yes"/>  | TAT: _____                                |                                     |

18. Was there need to call project manager to discuss status? If yes, please explain.

\_\_\_\_\_

\_\_\_\_\_

Who was called?: \_\_\_\_\_ By whom? \_\_\_\_\_

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	1 L Glass	2	NP
1	Yes	40 ml - VOA	3	HCL
1	Yes	500 ml Plastic	3	HNO3
2	Yes	1 L Glass	2	NP
2	Yes	40 ml - VOA	3	HCL
2	Yes	500 ml Plastic	2	HNO3
3	Yes	1 L Glass	8	NP
3	Yes	40 ml - VOA	3	HCL
3	Yes	500 ml Plastic	3	HNO3

Completed By: JTD JTD  
 Reviewed By: JED

Date/Time: 6-22-06  
 Date/Time: 6-22-06





# ESS Laboratory

Division of Thielsch Engineering, Inc.

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## CERTIFICATE OF ANALYSIS

### PROJECT NARRATIVE

Page One of Two

Cris Ricardi  
MACTEC Engineering & Consulting, Inc.  
32 Daniel Webster Highway Ste 25  
Merrimack, NH 03054

**RE: Providence Gorham Site**  
**ESS Laboratory Work Order Number: 0606373**

This signed Certificate of Analysis is our approved release of your analytical results. Beginning with this Project Narrative, the entire report has been paginated. The ESS Laboratory Certifications sheet is the final report page. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been mailed. If you have any questions or concerns, please feel free to call our Customer Service Department.



Laurel Stoddard  
Laboratory Director

Date: July 25, 2006

#### Sample Receipt

20 Soil samples and 1 Trip Blank were received on June 22, 2006 for the analyses specified on the enclosed Chain of Custody Record.

#### Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration may be used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC, except where noted within this project narrative.

#### Metals Analysis

ESS Laboratory utilized the established linear dynamic range to determine acceptable analytical results.

The batch duplicate was outside of the recommended range for Copper due to matrix interferences.

The batch Matrix Spike was outside of the recommended range for Antimony and Zinc. These analytes were below the lower control limit.

The batch Matrix Spike was outside of the recommended range for Copper. This analyte exceeds the upper control limit.

The batch Matrix Spike/Matrix Spike Duplicate was outside of the recommended ranges for Mercury due to matrix interferences. This analyte was below the lower control limit.

The Relative Percent Difference for the Matrix Spike/Matrix Spike Duplicate was outside of the recommended range for Mercury.

*Continued*

# ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

## PROJECT NARRATIVE

Page Two of Two

Cris Ricardi  
MACTEC Engineering & Consulting, Inc.  
32 Daniel Webster Highway Ste 25  
Merrimack, NH 03054

**RE: Providence Gorham Site**  
**ESS Laboratory Work Order Number: 0606373**

### **Volatile Organics Analysis**

#### **Low Level**

Internal standard recoveries were outside of the recommended ranges for samples 0606373-01, 0606373-05, 0606373-06, 0606373-12, and 0606373-18 due to matrix interferences.

Blank Spike was outside of the recommended range for Chloroethane. This analyte was below the lower control limit.

Both vials for sample 0606373-08 froze and broke. Only high level is reported.

Internal standards failed for samples 0606373-01, 0606373-05, 0606373-06, 0606373-12 and 0606373-18. Sample 0606373-12 was rerun for confirmation. The rest of the vials froze and broke.

#### **High Level**

Blank Spike was outside of the recommended range for 1,4-Dioxane - Screen. This analyte exceeds the upper control limit, however, samples were non detect for this analyte.

### **Polynuclear Aromatic Hydrocarbon Analysis**

Internal standard recovery was outside of the recommended ranges for sample 0606373-03 due to matrix interferences.

#### **SIM**

Internal standard recoveries were outside of the recommended ranges for sample 0606373-03 due to matrix interferences.

### **Total Petroleum Hydrocarbon Analysis**

Surrogate recovery was outside of the recommended range for sample 0606373-12 due to matrix interferences.

### **Pesticides Analysis**

The Relative Percent Difference for the Matrix Spike/Matrix Spike Duplicate was outside of the recommended range for Endosulfan II and Endrin Aldehyde.

No other observations noted.

End of Project Narrative.

mdp

# Metals Data Package

# Metals Sample Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3101  
Date Sampled: 06/21/06 10:20  
Percent Solids: 24

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-01  
Sample Matrix: Soil

### 3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/kg dry	21.3	6010B	1	JP	06/23/06	1.96	100
Arsenic	14.8	mg/kg dry	5.3	7060A	5	SVD	06/29/06	1.96	100
Barium	113	mg/kg dry	10.6	6010B	1	JP	06/23/06	1.96	100
Beryllium	0.61	mg/kg dry	0.21	6010B	1	JP	06/23/06	1.96	100
Cadmium	4.13	mg/kg dry	2.13	6010B	1	JP	06/23/06	1.96	100
Chromium	449	mg/kg dry	4.2	6010B	1	JP	06/23/06	1.96	100
Copper	1790	mg/kg dry	4.2	6010B	1	JP	06/23/06	1.96	100
Lead	1120	mg/kg dry	21.3	6010B	1	JP	06/23/06	1.96	100
Mercury	1.11	mg/kg dry	0.128	7471A	1	JP	06/24/06	0.65	40
Nickel	99.8	mg/kg dry	10.6	6010B	1	JP	06/23/06	1.96	100
Selenium	ND	mg/kg dry	21.3	6010B	1	JP	06/23/06	1.96	100
Silver	131	mg/kg dry	2.13	6010B	1	JP	06/23/06	1.96	100
Thallium	ND	mg/kg dry	5.3	7841	5	SVD	06/29/06	1.96	100
Zinc	1440	mg/kg dry	10.6	6010B	1	JP	06/23/06	1.96	100

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3104  
Date Sampled: 06/21/06 10:50  
Percent Solids: 75

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-02  
Sample Matrix: Soil

### 3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/kg dry	7.2	6010B	1	JP	06/23/06	1.85	100
Arsenic	ND	mg/kg dry	1.8	7060A	5	SVD	06/29/06	1.85	100
<b>Barium</b>	<b>6.1</b>	mg/kg dry	3.6	6010B	1	JP	06/23/06	1.85	100
Beryllium	ND	mg/kg dry	0.07	6010B	1	JP	06/23/06	1.85	100
Cadmium	ND	mg/kg dry	0.72	6010B	1	JP	06/23/06	1.85	100
<b>Chromium</b>	<b>3.2</b>	mg/kg dry	1.4	6010B	1	JP	06/23/06	1.85	100
<b>Copper</b>	<b>2.8</b>	mg/kg dry	1.4	6010B	1	JP	06/23/06	1.85	100
Lead	ND	mg/kg dry	7.2	6010B	1	JP	06/23/06	1.85	100
Mercury	ND	mg/kg dry	0.044	7471A	1	JP	06/24/06	0.6	40
Nickel	ND	mg/kg dry	3.6	6010B	1	JP	06/23/06	1.85	100
Selenium	ND	mg/kg dry	7.2	6010B	1	JP	06/23/06	1.85	100
Silver	ND	mg/kg dry	0.72	6010B	1	JP	06/23/06	1.85	100
Thallium	ND	mg/kg dry	1.8	7841	5	SVD	06/29/06	1.85	100
<b>Zinc</b>	<b>5.8</b>	mg/kg dry	3.6	6010B	1	JP	06/23/06	1.85	100

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3001  
Date Sampled: 06/21/06 13:30  
Percent Solids: 80

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-03  
Sample Matrix: Soil

### 3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/kg dry	7.0	6010B	1	JP	06/23/06	1.79	100
Arsenic	2.2	mg/kg dry	1.7	7060A	5	SVD	06/29/06	1.79	100
Barium	25.1	mg/kg dry	3.5	6010B	1	JP	06/23/06	1.79	100
Beryllium	0.11	mg/kg dry	0.07	6010B	1	JP	06/23/06	1.79	100
Cadmium	0.75	mg/kg dry	0.70	6010B	1	JP	06/23/06	1.79	100
Chromium	172	mg/kg dry	1.4	6010B	1	JP	06/23/06	1.79	100
Copper	1320	mg/kg dry	1.4	6010B	1	JP	06/23/06	1.79	100
Lead	159	mg/kg dry	7.0	6010B	1	JP	06/23/06	1.79	100
Mercury	0.113	mg/kg dry	0.042	7471A	1	JP	06/24/06	0.6	40
Nickel	19.2	mg/kg dry	3.5	6010B	1	JP	06/23/06	1.79	100
Selenium	ND	mg/kg dry	7.0	6010B	1	JP	06/23/06	1.79	100
Silver	38.4	mg/kg dry	0.70	6010B	1	JP	06/23/06	1.79	100
Thallium	ND	mg/kg dry	1.7	7841	5	SVD	06/29/06	1.79	100
Zinc	893	mg/kg dry	3.5	6010B	1	JP	06/23/06	1.79	100

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3004  
Date Sampled: 06/21/06 13:45  
Percent Solids: 47

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-04  
Sample Matrix: Soil

### 3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/kg dry	11.8	6010B	1	JP	06/23/06	1.8	100
Arsenic	ND	mg/kg dry	3.0	7060A	5	SVD	06/29/06	1.8	100
<b>Barium</b>	<b>10.2</b>	mg/kg dry	5.9	6010B	1	JP	06/23/06	1.8	100
Beryllium	ND	mg/kg dry	0.12	6010B	1	JP	06/23/06	1.8	100
Cadmium	ND	mg/kg dry	1.18	6010B	1	JP	06/23/06	1.8	100
<b>Chromium</b>	<b>10.3</b>	mg/kg dry	2.4	6010B	1	JP	06/23/06	1.8	100
<b>Copper</b>	<b>33.6</b>	mg/kg dry	2.4	6010B	1	JP	06/23/06	1.8	100
<b>Lead</b>	<b>23.0</b>	mg/kg dry	11.8	6010B	1	JP	06/23/06	1.8	100
Mercury	ND	mg/kg dry	0.070	7471A	1	JP	06/24/06	0.61	40
<b>Nickel</b>	<b>7.2</b>	mg/kg dry	5.9	6010B	1	JP	06/23/06	1.8	100
Selenium	ND	mg/kg dry	11.8	6010B	1	JP	06/23/06	1.8	100
<b>Silver</b>	<b>3.34</b>	mg/kg dry	1.18	6010B	1	JP	06/23/06	1.8	100
Thallium	ND	mg/kg dry	3.0	7841	5	SVD	06/29/06	1.8	100
<b>Zinc</b>	<b>43.3</b>	mg/kg dry	5.9	6010B	1	JP	06/23/06	1.8	100



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2801  
Date Sampled: 06/21/06 14:02  
Percent Solids: 27

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-05  
Sample Matrix: Soil

### 3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/kg dry	19.7	6010B	1	JP	06/23/06	1.88	100
Arsenic	33.8	mg/kg dry	4.9	7060A	5	SVD	06/29/06	1.88	100
Barium	202	mg/kg dry	9.8	6010B	1	JP	06/23/06	1.88	100
Beryllium	0.64	mg/kg dry	0.20	6010B	1	JP	06/23/06	1.88	100
Cadmium	4.73	mg/kg dry	1.97	6010B	1	JP	06/23/06	1.88	100
Chromium	372	mg/kg dry	3.9	6010B	1	JP	06/23/06	1.88	100
Copper	1930	mg/kg dry	3.9	6010B	1	JP	06/23/06	1.88	100
Lead	659	mg/kg dry	19.7	6010B	1	JP	06/23/06	1.88	100
Mercury	1.21	mg/kg dry	0.114	7471A	1	JP	06/24/06	0.65	40
Nickel	118	mg/kg dry	9.8	6010B	1	JP	06/23/06	1.88	100
Selenium	ND	mg/kg dry	19.7	6010B	1	JP	06/23/06	1.88	100
Silver	132	mg/kg dry	1.97	6010B	1	JP	06/23/06	1.88	100
Thallium	ND	mg/kg dry	4.9	7841	5	SVD	06/29/06	1.88	100
Zinc	1420	mg/kg dry	9.8	6010B	1	JP	06/23/06	1.88	100

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2803  
Date Sampled: 06/21/06 14:15  
Percent Solids: 11

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-06  
Sample Matrix: Soil

### 3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/kg dry	50.8	6010B	1	JP	06/23/06	1.79	100
Arsenic	51.4	mg/kg dry	12.7	7060A	5	SVD	06/29/06	1.79	100
Barium	115	mg/kg dry	25.4	6010B	1	JP	06/23/06	1.79	100
Beryllium	0.81	mg/kg dry	0.51	6010B	1	JP	06/23/06	1.79	100
Cadmium	ND	mg/kg dry	5.08	6010B	1	JP	06/23/06	1.79	100
Chromium	19.6	mg/kg dry	10.1	6010B	1	JP	06/23/06	1.79	100
Copper	48.4	mg/kg dry	10.1	6010B	1	JP	06/23/06	1.79	100
Lead	101	mg/kg dry	50.8	6010B	1	JP	06/23/06	1.79	100
Mercury	ND	mg/kg dry	0.284	7471A	1	JP	06/24/06	0.64	40
Nickel	ND	mg/kg dry	25.4	6010B	1	JP	06/23/06	1.79	100
Selenium	ND	mg/kg dry	50.8	6010B	1	JP	06/23/06	1.79	100
Silver	ND	mg/kg dry	5.08	6010B	1	JP	06/23/06	1.79	100
Thallium	ND	mg/kg dry	12.7	7841	5	SVD	06/29/06	1.79	100
Zinc	45.5	mg/kg dry	25.4	6010B	1	JP	06/23/06	1.79	100

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2901  
Date Sampled: 06/21/06 14:42  
Percent Solids: 25

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-07  
Sample Matrix: Soil

### 3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/kg dry	20.4	6010B	1	JP	06/23/06	1.96	100
Arsenic	31.7	mg/kg dry	5.1	7060A	5	SVD	06/29/06	1.96	100
Barium	372	mg/kg dry	10.2	6010B	1	JP	06/23/06	1.96	100
Beryllium	0.65	mg/kg dry	0.21	6010B	1	JP	06/23/06	1.96	100
Cadmium	6.44	mg/kg dry	2.04	6010B	1	JP	06/23/06	1.96	100
Chromium	252	mg/kg dry	4.1	6010B	1	JP	06/23/06	1.96	100
Copper	1260	mg/kg dry	4.1	6010B	1	JP	06/23/06	1.96	100
Lead	772	mg/kg dry	20.4	6010B	1	JP	06/23/06	1.96	100
Mercury	1.53	mg/kg dry	0.127	7471A	1	JP	06/24/06	0.63	40
Nickel	147	mg/kg dry	10.2	6010B	1	JP	06/23/06	1.96	100
Selenium	ND	mg/kg dry	20.4	6010B	1	JP	06/23/06	1.96	100
Silver	130	mg/kg dry	2.04	6010B	1	JP	06/23/06	1.96	100
Thallium	ND	mg/kg dry	5.1	7841	5	SVD	06/29/06	1.96	100
Zinc	1480	mg/kg dry	10.2	6010B	1	JP	06/23/06	1.96	100

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2904  
Date Sampled: 06/21/06 14:55  
Percent Solids: 26

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-08  
Sample Matrix: Soil

### 3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/kg dry	21.7	6010B	1	JP	06/23/06	1.77	100
Arsenic	24.7	mg/kg dry	5.4	7060A	5	SVD	06/29/06	1.77	100
Barium	13.5	mg/kg dry	10.9	6010B	1	JP	06/23/06	1.77	100
Beryllium	ND	mg/kg dry	0.22	6010B	1	JP	06/23/06	1.77	100
Cadmium	ND	mg/kg dry	2.17	6010B	1	JP	06/23/06	1.77	100
Chromium	14.7	mg/kg dry	4.3	6010B	1	JP	06/23/06	1.77	100
Copper	57.9	mg/kg dry	4.3	6010B	1	JP	06/23/06	1.77	100
Lead	ND	mg/kg dry	21.7	6010B	1	JP	06/23/06	1.77	100
Mercury	ND	mg/kg dry	0.115	7471A	1	JP	06/24/06	0.67	40
Nickel	35.1	mg/kg dry	10.9	6010B	1	JP	06/23/06	1.77	100
Selenium	ND	mg/kg dry	21.7	6010B	1	JP	06/23/06	1.77	100
Silver	ND	mg/kg dry	2.17	6010B	1	JP	06/23/06	1.77	100
Thallium	ND	mg/kg dry	5.4	7841	5	SVD	06/29/06	1.77	100
Zinc	54.8	mg/kg dry	10.9	6010B	1	JP	06/23/06	1.77	100

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3201  
Date Sampled: 06/21/06 15:22  
Percent Solids: 72

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-09  
Sample Matrix: Soil

### 3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/kg dry	7.4	6010B	1	JP	06/23/06	1.88	100
Arsenic	ND	mg/kg dry	1.8	7060A	5	SVD	06/29/06	1.88	100
Barium	13.4	mg/kg dry	3.7	6010B	1	JP	06/23/06	1.88	100
Beryllium	0.10	mg/kg dry	0.07	6010B	1	JP	06/23/06	1.88	100
Cadmium	0.93	mg/kg dry	0.74	6010B	1	JP	06/23/06	1.88	100
Chromium	28.9	mg/kg dry	1.5	6010B	1	JP	06/23/06	1.88	100
Copper	E 2610	mg/kg dry	1.5	6010B	1	JP	06/23/06	1.88	100
Lead	304	mg/kg dry	7.4	6010B	1	JP	06/23/06	1.88	100
Mercury	0.061	mg/kg dry	0.042	7471A	1	JP	06/24/06	0.66	40
Nickel	22.8	mg/kg dry	3.7	6010B	1	JP	06/23/06	1.88	100
Selenium	ND	mg/kg dry	7.4	6010B	1	JP	06/23/06	1.88	100
Silver	30.3	mg/kg dry	0.74	6010B	1	JP	06/23/06	1.88	100
Thallium	ND	mg/kg dry	1.8	7841	5	SVD	06/29/06	1.88	100
Zinc	1110	mg/kg dry	3.7	6010B	1	JP	06/23/06	1.88	100

REVISED

JUL 24 2006

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3201  
Date Sampled: 06/21/06 15:22  
Percent Solids: 72

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-09RE1  
Sample Matrix: Soil

### 3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Copper	2670	mg/kg dry	14.7	6010B	10	JP	06/24/06	1.88	100

REVISED

JUL 24 2006

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3204  
Date Sampled: 06/21/06 15:34  
Percent Solids: 80

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-10  
Sample Matrix: Soil

### 3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/kg dry	7.1	6010B	1	JP	06/23/06	1.75	100
Arsenic	5.6	mg/kg dry	1.8	7060A	5	SVD	06/29/06	1.75	100
Barium	11.1	mg/kg dry	3.6	6010B	1	JP	06/23/06	1.75	100
Beryllium	0.20	mg/kg dry	0.07	6010B	1	JP	06/23/06	1.75	100
Cadmium	ND	mg/kg dry	0.71	6010B	1	JP	06/23/06	1.75	100
Chromium	7.1	mg/kg dry	1.4	6010B	1	JP	06/23/06	1.75	100
Copper	8.5	mg/kg dry	1.4	6010B	1	JP	06/23/06	1.75	100
Lead	ND	mg/kg dry	7.1	6010B	1	JP	06/23/06	1.75	100
Mercury	ND	mg/kg dry	0.037	7471A	1	JP	06/24/06	0.67	40
Nickel	4.3	mg/kg dry	3.6	6010B	1	JP	06/23/06	1.75	100
Selenium	ND	mg/kg dry	7.1	6010B	1	JP	06/23/06	1.75	100
Silver	ND	mg/kg dry	0.71	6010B	1	JP	06/23/06	1.75	100
Thallium	ND	mg/kg dry	1.8	7841	5	SVD	06/29/06	1.75	100
Zinc	19.5	mg/kg dry	3.6	6010B	1	JP	06/23/06	1.75	100

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2001  
Date Sampled: 06/22/06 08:40  
Percent Solids: 43

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-12  
Sample Matrix: Soil

### 3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/kg dry	13.1	6010B	1	JP	06/23/06	1.77	100
Arsenic	ND	mg/kg dry	0.7	7060A	1	JP	06/29/06	1.77	100
<b>Barium</b>	<b>25.3</b>	mg/kg dry	6.6	6010B	1	JP	06/23/06	1.77	100
Beryllium	ND	mg/kg dry	0.13	6010B	1	JP	06/23/06	1.77	100
Cadmium	ND	mg/kg dry	1.31	6010B	1	JP	06/23/06	1.77	100
<b>Chromium</b>	<b>7.5</b>	mg/kg dry	2.6	6010B	1	JP	06/23/06	1.77	100
<b>Copper</b>	<b>14.6</b>	mg/kg dry	2.6	6010B	1	JP	06/23/06	1.77	100
<b>Lead</b>	<b>34.1</b>	mg/kg dry	13.1	6010B	1	JP	06/23/06	1.77	100
Mercury	ND	mg/kg dry	0.067	7471A	1	JP	06/24/06	0.69	40
Nickel	ND	mg/kg dry	6.6	6010B	1	JP	06/23/06	1.77	100
Selenium	ND	mg/kg dry	13.1	6010B	1	JP	06/23/06	1.77	100
Silver	ND	mg/kg dry	1.31	6010B	1	JP	06/23/06	1.77	100
Thallium	ND	mg/kg dry	3.3	7841	5	SVD	06/29/06	1.77	100
<b>Zinc</b>	<b>38.8</b>	mg/kg dry	6.6	6010B	1	JP	06/23/06	1.77	100



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2003  
Date Sampled: 06/22/06 08:55  
Percent Solids: 23

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-13  
Sample Matrix: Soil

### 3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/kg dry	24.4	6010B	1	JP	06/23/06	1.78	100
<b>Arsenic</b>	<b>2.2</b>	mg/kg dry	1.2	7060A	1	JP	06/29/06	1.78	100
Barium	ND	mg/kg dry	12.2	6010B	1	JP	06/23/06	1.78	100
Beryllium	ND	mg/kg dry	0.25	6010B	1	JP	06/23/06	1.78	100
Cadmium	ND	mg/kg dry	2.44	6010B	1	JP	06/23/06	1.78	100
<b>Chromium</b>	<b>11.8</b>	mg/kg dry	4.9	6010B	1	JP	06/23/06	1.78	100
<b>Copper</b>	<b>5.9</b>	mg/kg dry	4.9	6010B	1	JP	06/23/06	1.78	100
Lead	ND	mg/kg dry	24.4	6010B	1	JP	06/23/06	1.78	100
Mercury	ND	mg/kg dry	0.140	7471A	1	JP	06/24/06	0.62	40
Nickel	ND	mg/kg dry	12.2	6010B	1	JP	06/23/06	1.78	100
Selenium	ND	mg/kg dry	24.4	6010B	1	JP	06/23/06	1.78	100
Silver	ND	mg/kg dry	2.44	6010B	1	JP	06/23/06	1.78	100
Thallium	ND	mg/kg dry	6.1	7841	5	SVD	06/29/06	1.78	100
Zinc	ND	mg/kg dry	12.2	6010B	1	JP	06/23/06	1.78	100

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1701  
Date Sampled: 06/22/06 09:15  
Percent Solids: 71

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-14  
Sample Matrix: Soil

### 3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/kg dry	7.6	6010B	1	JP	06/23/06	1.86	100
Arsenic	ND	mg/kg dry	0.4	7060A	1	JP	06/29/06	1.86	100
<b>Barium</b>	<b>12.4</b>	mg/kg dry	3.8	6010B	1	JP	06/23/06	1.86	100
Beryllium	ND	mg/kg dry	0.08	6010B	1	JP	06/23/06	1.86	100
Cadmium	ND	mg/kg dry	0.76	6010B	1	JP	06/23/06	1.86	100
<b>Chromium</b>	<b>11.1</b>	mg/kg dry	1.5	6010B	1	JP	06/23/06	1.86	100
<b>Copper</b>	<b>34.8</b>	mg/kg dry	1.5	6010B	1	JP	06/23/06	1.86	100
<b>Lead</b>	<b>20.9</b>	mg/kg dry	7.6	6010B	1	JP	06/23/06	1.86	100
Mercury	ND	mg/kg dry	0.047	7471A	1	JP	06/24/06	0.6	40
<b>Nickel</b>	<b>5.7</b>	mg/kg dry	3.8	6010B	1	JP	06/23/06	1.86	100
Selenium	ND	mg/kg dry	7.6	6010B	1	JP	06/23/06	1.86	100
<b>Silver</b>	<b>5.27</b>	mg/kg dry	0.76	6010B	1	JP	06/23/06	1.86	100
Thallium	ND	mg/kg dry	1.9	7841	5	SVD	06/29/06	1.86	100
<b>Zinc</b>	<b>39.3</b>	mg/kg dry	3.8	6010B	1	JP	06/23/06	1.86	100

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1704  
Date Sampled: 06/22/06 09:30  
Percent Solids: 81

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-15  
Sample Matrix: Soil

### 3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/kg dry	6.3	6010B	1	JP	06/23/06	1.97	100
Arsenic	ND	mg/kg dry	0.3	7060A	1	JP	06/29/06	1.97	100
<b>Barium</b>	<b>11.1</b>	mg/kg dry	3.1	6010B	1	JP	06/23/06	1.97	100
Beryllium	ND	mg/kg dry	0.06	6010B	1	JP	06/23/06	1.97	100
Cadmium	ND	mg/kg dry	0.63	6010B	1	JP	06/23/06	1.97	100
<b>Chromium</b>	<b>3.5</b>	mg/kg dry	1.3	6010B	1	JP	06/23/06	1.97	100
<b>Copper</b>	<b>3.2</b>	mg/kg dry	1.3	6010B	1	JP	06/23/06	1.97	100
Lead	ND	mg/kg dry	6.3	6010B	1	JP	06/23/06	1.97	100
Mercury	ND	mg/kg dry	0.041	7471A	1	JP	06/24/06	0.6	40
<b>Nickel</b>	<b>5.1</b>	mg/kg dry	3.1	6010B	1	JP	06/23/06	1.97	100
Selenium	ND	mg/kg dry	6.3	6010B	1	JP	06/23/06	1.97	100
Silver	ND	mg/kg dry	0.63	6010B	1	JP	06/23/06	1.97	100
Thallium	ND	mg/kg dry	1.6	7841	5	SVD	06/29/06	1.97	100
<b>Zinc</b>	<b>13.8</b>	mg/kg dry	3.1	6010B	1	JP	06/23/06	1.97	100

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1001  
Date Sampled: 06/22/06 09:45  
Percent Solids: 85

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-16  
Sample Matrix: Soil

### 3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/kg dry	6.5	6010B	1	JP	06/23/06	1.8	100
Arsenic	ND	mg/kg dry	0.3	7060A	1	JP	06/29/06	1.8	100
<b>Barium</b>	<b>10.2</b>	mg/kg dry	3.3	6010B	1	JP	06/23/06	1.8	100
Beryllium	ND	mg/kg dry	0.07	6010B	1	JP	06/23/06	1.8	100
Cadmium	ND	mg/kg dry	0.65	6010B	1	JP	06/23/06	1.8	100
<b>Chromium</b>	<b>3.0</b>	mg/kg dry	1.3	6010B	1	JP	06/23/06	1.8	100
<b>Copper</b>	<b>4.1</b>	mg/kg dry	1.3	6010B	1	JP	06/23/06	1.8	100
Lead	ND	mg/kg dry	6.5	6010B	1	JP	06/23/06	1.8	100
Mercury	ND	mg/kg dry	0.035	7471A	1	JP	06/24/06	0.68	40
<b>Nickel</b>	<b>3.6</b>	mg/kg dry	3.3	6010B	1	JP	06/23/06	1.8	100
Selenium	ND	mg/kg dry	6.5	6010B	1	JP	06/23/06	1.8	100
Silver	ND	mg/kg dry	0.65	6010B	1	JP	06/23/06	1.8	100
Thallium	ND	mg/kg dry	1.6	7841	5	SVD	06/29/06	1.8	100
<b>Zinc</b>	<b>28.1</b>	mg/kg dry	3.3	6010B	1	JP	06/23/06	1.8	100

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1003  
Date Sampled: 06/22/06 09:55  
Percent Solids: 73

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-17  
Sample Matrix: Soil

### 3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/kg dry	7.4	6010B	1	JP	06/23/06	1.84	100
Arsenic	1.1	mg/kg dry	0.4	7060A	1	JP	06/29/06	1.84	100
Barium	19.9	mg/kg dry	3.7	6010B	1	JP	06/23/06	1.84	100
Beryllium	ND	mg/kg dry	0.07	6010B	1	JP	06/23/06	1.84	100
Cadmium	ND	mg/kg dry	0.74	6010B	1	JP	06/23/06	1.84	100
Chromium	5.0	mg/kg dry	1.5	6010B	1	JP	06/23/06	1.84	100
Copper	4.0	mg/kg dry	1.5	6010B	1	JP	06/23/06	1.84	100
Lead	ND	mg/kg dry	7.4	6010B	1	JP	06/23/06	1.84	100
Mercury	ND	mg/kg dry	0.044	7471A	1	JP	06/24/06	0.62	40
Nickel	4.0	mg/kg dry	3.7	6010B	1	JP	06/23/06	1.84	100
Selenium	ND	mg/kg dry	7.4	6010B	1	JP	06/23/06	1.84	100
Silver	ND	mg/kg dry	0.74	6010B	1	JP	06/23/06	1.84	100
Thallium	ND	mg/kg dry	1.9	7841	5	SVD	06/29/06	1.84	100
Zinc	12.4	mg/kg dry	3.7	6010B	1	JP	06/23/06	1.84	100

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1101  
Date Sampled: 06/22/06 10:15  
Percent Solids: 15

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-18  
Sample Matrix: Soil

### 3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/kg dry	25.7	6010B	1	JP	06/23/06	2.6	100
Arsenic	4.8	mg/kg dry	1.3	7060A	1	JP	06/29/06	2.6	100
Barium	156	mg/kg dry	12.8	6010B	1	JP	06/23/06	2.6	100
Beryllium	0.47	mg/kg dry	0.26	6010B	1	JP	06/23/06	2.6	100
Cadmium	3.24	mg/kg dry	2.57	6010B	1	JP	06/23/06	2.6	100
Chromium	213	mg/kg dry	5.1	6010B	1	JP	06/23/06	2.6	100
Copper	423	mg/kg dry	5.1	6010B	1	JP	06/23/06	2.6	100
Lead	590	mg/kg dry	25.7	6010B	1	JP	06/23/06	2.6	100
Mercury	ND	mg/kg dry	0.208	7471A	1	JP	06/24/06	0.64	40
Nickel	85.7	mg/kg dry	12.8	6010B	1	JP	06/23/06	2.6	100
Selenium	ND	mg/kg dry	25.7	6010B	1	JP	06/23/06	2.6	100
Silver	29.7	mg/kg dry	2.57	6010B	1	JP	06/23/06	2.6	100
Thallium	ND	mg/kg dry	6.4	7841	5	SVD	06/29/06	2.6	100
Zinc	620	mg/kg dry	12.8	6010B	1	JP	06/23/06	2.6	100

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1103  
Date Sampled: 06/22/06 10:30  
Percent Solids: 75

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-19  
Sample Matrix: Soil

### 3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/kg dry	6.8	6010B	1	JP	06/23/06	1.96	100
Arsenic	7.1	mg/kg dry	1.7	7060A	5	SVD	06/29/06	1.96	100
Barium	7.1	mg/kg dry	3.4	6010B	1	JP	06/23/06	1.96	100
Beryllium	ND	mg/kg dry	0.07	6010B	1	JP	06/23/06	1.96	100
Cadmium	ND	mg/kg dry	0.68	6010B	1	JP	06/23/06	1.96	100
Chromium	3.1	mg/kg dry	1.4	6010B	1	JP	06/23/06	1.96	100
Copper	1.7	mg/kg dry	1.4	6010B	1	JP	06/23/06	1.96	100
Lead	ND	mg/kg dry	6.8	6010B	1	JP	06/23/06	1.96	100
Mercury	ND	mg/kg dry	0.037	7471A	1	JP	06/24/06	0.72	40
Nickel	ND	mg/kg dry	3.4	6010B	1	JP	06/23/06	1.96	100
Selenium	ND	mg/kg dry	6.8	6010B	1	JP	06/23/06	1.96	100
Silver	ND	mg/kg dry	0.68	6010B	1	JP	06/23/06	1.96	100
Thallium	ND	mg/kg dry	1.7	7841	5	SVD	06/29/06	1.96	100
Zinc	5.3	mg/kg dry	3.4	6010B	1	JP	06/23/06	1.96	100

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1201  
Date Sampled: 06/22/06 11:01  
Percent Solids: 45

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-20  
Sample Matrix: Soil

### 3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/kg dry	11.9	6010B	1	JP	06/24/06	1.87	100
Arsenic	ND	mg/kg dry	3.0	7060A	5	JP	06/29/06	1.87	100
<b>Barium</b>	<b>33.1</b>	mg/kg dry	5.9	6010B	1	JP	06/24/06	1.87	100
<b>Beryllium</b>	<b>0.31</b>	mg/kg dry	0.12	6010B	1	JP	06/24/06	1.87	100
Cadmium	ND	mg/kg dry	1.19	6010B	1	JP	06/24/06	1.87	100
<b>Chromium</b>	<b>7.0</b>	mg/kg dry	2.4	6010B	1	JP	06/24/06	1.87	100
<b>Copper</b>	<b>12.5</b>	mg/kg dry	2.4	6010B	1	JP	06/24/06	1.87	100
<b>Lead</b>	<b>20.7</b>	mg/kg dry	11.9	6010B	1	JP	06/24/06	1.87	100
Mercury	ND	mg/kg dry	0.068	7471A	1	JP	06/24/06	0.65	40
Nickel	ND	mg/kg dry	5.9	6010B	1	JP	06/24/06	1.87	100
Selenium	ND	mg/kg dry	11.9	6010B	1	JP	06/24/06	1.87	100
Silver	ND	mg/kg dry	1.19	6010B	1	JP	06/24/06	1.87	100
Thallium	ND	mg/kg dry	3.0	7841	5	JP	06/29/06	1.87	100
<b>Zinc</b>	<b>34.7</b>	mg/kg dry	5.9	6010B	1	JP	06/24/06	1.87	100



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1203  
Date Sampled: 06/22/06 11:15  
Percent Solids: 76

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-21  
Sample Matrix: Soil

### 3050B/6000/7000 Total Metals

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Antimony	ND	mg/kg dry	7.2	6010B	1	JP	06/24/06	1.82	100
Arsenic	ND	mg/kg dry	1.8	7060A	5	JP	06/29/06	1.82	100
<b>Barium</b>	<b>14.5</b>	mg/kg dry	3.6	6010B	1	JP	06/24/06	1.82	100
Beryllium	ND	mg/kg dry	0.07	6010B	1	JP	06/24/06	1.82	100
Cadmium	ND	mg/kg dry	0.72	6010B	1	JP	06/24/06	1.82	100
<b>Chromium</b>	<b>5.0</b>	mg/kg dry	1.4	6010B	1	JP	06/24/06	1.82	100
<b>Copper</b>	<b>5.1</b>	mg/kg dry	1.4	6010B	1	JP	06/24/06	1.82	100
Lead	ND	mg/kg dry	7.2	6010B	1	JP	06/24/06	1.82	100
Mercury	ND	mg/kg dry	0.042	7471A	1	JP	06/24/06	0.62	40
<b>Nickel</b>	<b>5.7</b>	mg/kg dry	3.6	6010B	1	JP	06/24/06	1.82	100
Selenium	ND	mg/kg dry	7.2	6010B	1	JP	06/24/06	1.82	100
Silver	ND	mg/kg dry	0.72	6010B	1	JP	06/24/06	1.82	100
Thallium	ND	mg/kg dry	1.8	7841	5	JP	06/29/06	1.82	100
<b>Zinc</b>	<b>61.2</b>	mg/kg dry	3.6	6010B	1	JP	06/24/06	1.82	100

# Metals Quality Control Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 3050B/6000/7000 Total Metals

#### Batch BF62317 - 3050B

##### Blank

Antimony	ND	6.7	mg/kg wet							
Arsenic	ND	0.3	mg/kg wet							
Barium	ND	3.3	mg/kg wet							
Beryllium	ND	0.07	mg/kg wet							
Cadmium	ND	0.67	mg/kg wet							
Chromium	ND	1.3	mg/kg wet							
Copper	ND	1.3	mg/kg wet							
Lead	ND	6.7	mg/kg wet							
Nickel	ND	3.3	mg/kg wet							
Selenium	ND	6.7	mg/kg wet							
Silver	ND	0.67	mg/kg wet							
Thallium	ND	0.3	mg/kg wet							
Zinc	ND	3.3	mg/kg wet							

##### LCS

Antimony	30.7	6.7	mg/kg wet	33.3		92	80-120			
Arsenic	31.5	6.7	mg/kg wet	33.3		95	80-120			
Barium	32.8	3.3	mg/kg wet	33.3		98	80-120			
Beryllium	3.23	0.07	mg/kg wet	3.33		97	80-120			
Cadmium	16.1	0.67	mg/kg wet	16.7		96	80-120			
Chromium	33.6	1.3	mg/kg wet	33.3		101	80-120			
Copper	33.8	1.3	mg/kg wet	33.3		102	80-120			
Lead	32.1	6.7	mg/kg wet	33.3		96	80-120			
Nickel	33.6	3.3	mg/kg wet	33.3		101	80-120			
Selenium	62.7	6.7	mg/kg wet	66.7		94	80-120			
Silver	16.3	0.67	mg/kg wet	16.7		98	80-120			
Thallium	34.6	6.7	mg/kg wet	33.3		104	80-120			
Zinc	32.1	3.3	mg/kg wet	33.3		96	80-120			

##### LCS Dup

Antimony	30.3	6.7	mg/kg wet	33.3		91	80-120	1	20	
Arsenic	31.3	6.7	mg/kg wet	33.3		94	80-120	0.6	20	
Barium	32.2	3.3	mg/kg wet	33.3		97	80-120	1	20	
Beryllium	3.16	0.07	mg/kg wet	3.33		95	80-120	2	20	
Cadmium	15.8	0.67	mg/kg wet	16.7		95	80-120	1	20	
Chromium	32.9	1.3	mg/kg wet	33.3		99	80-120	2	20	
Copper	33.0	1.3	mg/kg wet	33.3		99	80-120	3	20	
Lead	31.6	6.7	mg/kg wet	33.3		95	80-120	2	20	
Nickel	33.0	3.3	mg/kg wet	33.3		99	80-120	2	20	
Selenium	61.1	6.7	mg/kg wet	66.7		92	80-120	2	20	
Silver	16.0	0.67	mg/kg wet	16.7		96	80-120	2	20	
Thallium	34.3	6.7	mg/kg wet	33.3		103	80-120	1	20	
Zinc	31.4	3.3	mg/kg wet	33.3		94	80-120	2	20	

##### Duplicate Source: 0606373-08

Antimony	ND	21.9	mg/kg dry	ND						35
Arsenic	30.2	5.5	mg/kg dry	27	24.7			20		35
Barium	14.5	10.9	mg/kg dry		13.5			7		35

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>3050B/6000/7000 Total Metals</b>										
<b>Batch BF62317 - 3050B</b>										
Beryllium	0.131	0.22	mg/kg dry		0.12			9	35	
Cadmium	2.05	2.19	mg/kg dry		1.64			22	35	
Chromium	13.8	4.4	mg/kg dry		14.7			6	35	
Copper	38.3	4.4	mg/kg dry		57.9			41	35	+
Lead	11.2	21.9	mg/kg dry		13.0			15	35	
Nickel	38.1	10.9	mg/kg dry		35.1			8	35	
Selenium	1.86	21.9	mg/kg dry		2.8			40	35	
Silver	1.55	2.19	mg/kg dry		2.07			29	35	
Thallium	ND	5.5	mg/kg dry		ND				35	
Zinc	43.4	10.9	mg/kg dry		54.8			23	35	
<b>Duplicate Source: 0606373-18</b>										
Antimony	ND	25.8	mg/kg dry		ND				35	
Arsenic	5.1	1.3	mg/kg dry		4.8			6	35	
Barium	163	12.9	mg/kg dry		156			4	35	
Beryllium	0.490	0.26	mg/kg dry		0.47			4	35	
Cadmium	3.54	2.58	mg/kg dry		3.24			9	35	
Chromium	225	5.1	mg/kg dry		213			5	35	
Copper	437	5.1	mg/kg dry		423			3	35	
Lead	620	25.8	mg/kg dry		590			5	35	
Nickel	92.2	12.9	mg/kg dry		85.7			7	35	
Selenium	4.22	25.8	mg/kg dry		4.1			3	35	
Silver	29.4	2.58	mg/kg dry		29.7			1	35	
Thallium	ND	6.4	mg/kg dry		ND				35	
Zinc	636	12.9	mg/kg dry		620			3	35	
<b>Matrix Spike Source: 0606373-08</b>										
Antimony	65.7	19.4	mg/kg dry	97.1	ND	68	75-125			+
Arsenic	114	19.4	mg/kg dry	97.1	24.7	92	75-125			
Barium	96.1	9.7	mg/kg dry	97.1	13.5	85	75-125			
Beryllium	8.49	0.20	mg/kg dry	9.71	0.12	86	75-125			
Cadmium	42.4	1.94	mg/kg dry	48.6	1.64	84	75-125			
Chromium	97.8	3.9	mg/kg dry	97.1	14.7	86	75-125			
Copper	191	3.9	mg/kg dry	97.1	57.9	137	75-125			+
Lead	91.7	19.4	mg/kg dry	97.1	13.0	81	75-125			
Nickel	126	9.7	mg/kg dry	97.1	35.1	94	75-125			
Selenium	161	19.4	mg/kg dry	194	2.8	82	75-125			
Silver	43.1	1.94	mg/kg dry	48.6	2.07	84	75-125			
Thallium	90.9	19.4	mg/kg dry	97.1	ND	94	75-125			
Zinc	117	9.7	mg/kg dry	97.1	54.8	64	75-125			+
<b>Matrix Spike Source: 0606373-18</b>										
Antimony	68.8	26.4	mg/kg dry	132	ND	52	75-125			+
Arsenic	7.6	1.3	mg/kg dry	132	4.8	2	75-125			
Barium	278	13.2	mg/kg dry	132	156	92	75-125			
Beryllium	12.0	0.26	mg/kg dry	13.2	0.47	87	75-125			
Cadmium	60.6	2.64	mg/kg dry	65.9	3.24	87	75-125			
Chromium	347	5.3	mg/kg dry	132	213	102	75-125			
Copper	560	5.3	mg/kg dry	132	423	104	75-125			

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>3050B/6000/7000 Total Metals</b>										
<b>Batch BF62317 - 3050B</b>										
Lead	722	26.4	mg/kg dry	132	590	100	75-125			
Nickel	208	13.2	mg/kg dry	132	85.7	93	75-125			
Selenium	230	26.4	mg/kg dry	264	4.1	86	75-125			
Silver	84.3	2.64	mg/kg dry	65.9	29.7	83	75-125			
Thallium	124	26.3	mg/kg dry	132	ND	94	75-125			
Zinc	752	13.2	mg/kg dry	132	620	100	75-125			
<b>Reference</b>										
Antimony	69.3	10.0	mg/kg wet	86.2		80	0-222.74			
Arsenic	135	25.0	mg/kg wet	146		92	79.45-120.55			
Barium	311	5.0	mg/kg wet	351		89	82.05-117.95			
Beryllium	55.7	0.10	mg/kg wet	62.2		90	81.99-118.01			
Cadmium	79.7	1.00	mg/kg wet	91.9		87	81.5-118.61			
Chromium	157	2.0	mg/kg wet	176		89	78.41-121.59			
Copper	64.0	2.0	mg/kg wet	70.0		91	82.14-118			
Lead	59.2	10.0	mg/kg wet	68.1		87	80.62-119.38			
Nickel	74.7	5.0	mg/kg wet	84.0		89	81.55-118.45			
Selenium	65.7	10.0	mg/kg wet	73.0		90	75.48-124.38			
Silver	85.3	1.00	mg/kg wet	93.0		92	61.29-138.71			
Thallium	79.0	25.0	mg/kg wet	77.8		102	75.58-124.42			
Zinc	347	5.0	mg/kg wet	402		86	79.35-120.65			
<b>Batch BF62318 - 7471A</b>										
<b>Blank</b>										
Mercury	ND	0.033	mg/kg wet							
<b>LCS</b>										
Mercury	0.194	0.033	mg/kg wet	0.200		97	80-120			
<b>LCS Dup</b>										
Mercury	0.192	0.033	mg/kg wet	0.200		96	80-120	1	20	
<b>Duplicate Source: 0606373-08</b>										
Mercury	ND	0.124	mg/kg dry		ND				35	
<b>Duplicate Source: 0606373-18</b>										
Mercury	0.107	0.193	mg/kg dry		0.119			11	35	
<b>Matrix Spike Source: 0606373-08</b>										
Mercury	0.114	0.126	mg/kg dry	0.757	ND	15	75-125			+
<b>Matrix Spike Source: 0606373-18</b>										
Mercury	0.257	0.222	mg/kg dry	1.33	0.119	10	75-125			+
<b>Matrix Spike Dup Source: 0606373-08</b>										
Mercury	0.139	0.118	mg/kg dry	0.710	ND	20	75-125	29	35	+
<b>Matrix Spike Dup Source: 0606373-18</b>										
Mercury	0.176	0.185	mg/kg dry	1.11	0.119	5	75-125	67	35	+
<b>Reference</b>										
Mercury	1.58	0.322	mg/kg wet	1.77		89	68.36-132.2			
<b>Batch BF62320 - 3050B</b>										
<b>Blank</b>										

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 3050B/6000/7000 Total Metals

##### Batch BF62320 - 3050B

Antimony	ND	6.7	mg/kg wet							
Arsenic	ND	0.3	mg/kg wet							
Barium	ND	3.3	mg/kg wet							
Beryllium	ND	0.07	mg/kg wet							
Cadmium	ND	0.67	mg/kg wet							
Chromium	ND	1.3	mg/kg wet							
Copper	ND	1.3	mg/kg wet							
Lead	ND	6.7	mg/kg wet							
Nickel	ND	3.3	mg/kg wet							
Selenium	ND	6.7	mg/kg wet							
Silver	ND	0.67	mg/kg wet							
Thallium	ND	0.3	mg/kg wet							
Zinc	ND	3.3	mg/kg wet							

##### LCS

Antimony	29.6	6.7	mg/kg wet	33.3		89	80-120			
Arsenic	29.8	6.7	mg/kg wet	33.3		89	80-120			
Barium	32.6	3.3	mg/kg wet	33.3		98	80-120			
Beryllium	3.16	0.07	mg/kg wet	3.33		95	80-120			
Cadmium	16.0	0.67	mg/kg wet	16.7		96	80-120			
Chromium	33.5	1.3	mg/kg wet	33.3		101	80-120			
Copper	34.0	1.3	mg/kg wet	33.3		102	80-120			
Lead	31.6	6.7	mg/kg wet	33.3		95	80-120			
Nickel	34.1	3.3	mg/kg wet	33.3		102	80-120			
Selenium	62.0	6.7	mg/kg wet	66.7		93	80-120			
Silver	16.2	0.67	mg/kg wet	16.7		97	80-120			
Thallium	33.5	6.7	mg/kg wet	33.3		101	80-120			
Zinc	32.0	3.3	mg/kg wet	33.3		96	80-120			

##### LCS Dup

Antimony	29.6	6.7	mg/kg wet	33.3		89	80-120	0	20	
Arsenic	31.9	6.7	mg/kg wet	33.3		96	80-120	7	20	
Barium	32.1	3.3	mg/kg wet	33.3		96	80-120	2	20	
Beryllium	3.16	0.07	mg/kg wet	3.33		95	80-120	0	20	
Cadmium	15.7	0.67	mg/kg wet	16.7		94	80-120	2	20	
Chromium	32.9	1.3	mg/kg wet	33.3		99	80-120	2	20	
Copper	33.2	1.3	mg/kg wet	33.3		100	80-120	2	20	
Lead	31.4	6.7	mg/kg wet	33.3		94	80-120	0.6	20	
Nickel	33.0	3.3	mg/kg wet	33.3		99	80-120	3	20	
Selenium	60.4	6.7	mg/kg wet	66.7		91	80-120	2	20	
Silver	16.0	0.67	mg/kg wet	16.7		96	80-120	1	20	
Thallium	35.9	6.7	mg/kg wet	33.3		108	80-120	7	20	
Zinc	31.3	3.3	mg/kg wet	33.3		94	80-120	2	20	

##### Reference

Antimony	71.0	10.0	mg/kg wet	86.2		82	0-222.74			
Arsenic	144	25.0	mg/kg wet	146		99	79.45-120.55			
Barium	313	5.0	mg/kg wet	351		89	82.05-117.95			
Beryllium	55.5	0.10	mg/kg wet	62.2		89	81.99-118.01			

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 3050B/6000/7000 Total Metals

##### Batch BF62320 - 3050B

Cadmium	79.2	1.00	mg/kg wet	91.9		86	81.5-118.61			
Chromium	157	2.0	mg/kg wet	176		89	78.41-121.59			
Copper	63.5	2.0	mg/kg wet	70.0		91	82.14-118			
Lead	58.2	10.0	mg/kg wet	68.1		85	80.62-119.38			
Nickel	76.2	5.0	mg/kg wet	84.0		91	81.55-118.45			
Selenium	64.9	10.0	mg/kg wet	73.0		89	75.48-124.38			
Silver	85.0	1.00	mg/kg wet	93.0		91	61.29-138.71			
Thallium	88.3	25.0	mg/kg wet	77.8		113	75.58-124.42			
Zinc	346	5.0	mg/kg wet	402		86	79.35-120.65			

##### Batch BF62321 - 7471A

###### Blank

Mercury	ND	0.033	mg/kg wet							
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###### LCS

Mercury	0.191	0.033	mg/kg wet	0.200		96	80-120			
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###### LCS Dup

Mercury	0.189	0.033	mg/kg wet	0.200		94	80-120	2	20	
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###### Reference

Mercury	1.63	0.333	mg/kg wet	1.77		92	68.36-132.2			+
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#### 5035/8260B Volatile Organic Compounds / Low Level

##### Batch BF62324 - 5035

###### Blank

1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,1-Trichloroethane	ND	5.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethene	ND	5.0	ug/Kg wet							
1,1-Dichloropropene	ND	5.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	5.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg wet							
1,2-Dibromoethane	ND	5.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,2-Dichloroethane	ND	5.0	ug/Kg wet							
1,2-Dichloropropane	ND	5.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,3-Dichloropropane	ND	5.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	250	ug/Kg wet							
1-Chlorohexane	ND	5.0	ug/Kg wet							
2,2-Dichloropropane	ND	5.0	ug/Kg wet							
2-Butanone	ND	50.0	ug/Kg wet							

# Metals Calibration Data



## ANALYSIS SEQUENCE

BPG0218

Instrument: ICP3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0218-CAL1	QC		1		6F21081		
BPG0218-CAL2	QC		2		6F23006		
BPG0218-CAL3	QC		3		6F23007		
BPG0218-CAL4	QC		4		6F23008		
BPG0218-ICV1	QC		5		6F23007		
BPG0218-SCV1	QC		6		6F23011		
BPG0218-ICB1	QC		7				
BPG0218-CRL1	QC		8		6F23012		
BPG0218-CRL2	QC		9		6F23013		
BPG0218-CRL3	QC		10		6F23014		
BPG0218-IFA1	QC		11		6F13074		
BPG0218-CCB1	QC		12				
BPG0218-CCV1	QC		13		6F23007		
BPG0218-IFB1	QC		14		6F13075		
BF62317-BLK1	QC		15				
BF62317-BS1	QC		16				
BF62317-BSD1	QC		17				
BF62317-SRM1	QC		18				
BF62317-DUP1	QC		19				
BF62317-MS1	QC		20				
BF62317-PS1	QC		21				
BF62317-DUP2	QC		22				
BF62317-MS2	QC		23				
BPG0218-CCB2	QC		24				
BPG0218-CCV2	QC		25		6F23007		
BF62317-PS2	QC		26				
0606373-01	Sb: ppm Antimony 6010	F	27				MACTEC Engineering & Consulting, In
0606373-01	Be: ppm Beryllium 6010	F	28				MACTEC Engineering & Consulting, In
0606373-01	Cd: ppm Cadmium 6010	F	29				MACTEC Engineering & Consulting, In
0606373-01	Cr: ppm Chromium 6010	F	30				MACTEC Engineering & Consulting, In
0606373-01	Cu: ppm Copper 6010	F	31				MACTEC Engineering & Consulting, In
0606373-01	Pb: ppm Lead 6010	F	32				MACTEC Engineering & Consulting, In
0606373-01	Ni: ppm Nickel 6010	F	33				MACTEC Engineering & Consulting, In

Samples Loaded By

Date

Data Processed By

Date

## ANALYSIS SEQUENCE

BPG0218

Instrument: ICP3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606373-01	Se: ppm Selenium 6010	F	34				MACTEC Engineering & Consulting, In
0606373-01	Ag: ppm Silver 6010	F	35				MACTEC Engineering & Consulting, In
BPG0218-CCB3	QC		36				
BPG0218-CCV3	QC		37		6F23007		
0606373-01	Zn: ppm Zinc 6010	F	38				MACTEC Engineering & Consulting, In
0606373-01	Ba: ppm Barium 6010	F	39				MACTEC Engineering & Consulting, In
0606373-02	Sb: ppm Antimony 6010	F	40				MACTEC Engineering & Consulting, In
0606373-02	Be: ppm Beryllium 6010	F	41				MACTEC Engineering & Consulting, In
0606373-02	Cd: ppm Cadmium 6010	F	42				MACTEC Engineering & Consulting, In
0606373-02	Cr: ppm Chromium 6010	F	43				MACTEC Engineering & Consulting, In
0606373-02	Cu: ppm Copper 6010	F	44				MACTEC Engineering & Consulting, In
0606373-02	Pb: ppm Lead 6010	F	45				MACTEC Engineering & Consulting, In
0606373-02	Ni: ppm Nickel 6010	F	46				MACTEC Engineering & Consulting, In
0606373-02	Se: ppm Selenium 6010	F	47				MACTEC Engineering & Consulting, In
BPG0218-CCB4	QC		48				
BPG0218-CCV4	QC		49		6F23007		
0606373-02	Ag: ppm Silver 6010	F	50				MACTEC Engineering & Consulting, In
0606373-02	Zn: ppm Zinc 6010	F	51				MACTEC Engineering & Consulting, In
0606373-02	Ba: ppm Barium 6010	F	52				MACTEC Engineering & Consulting, In
0606373-03	Sb: ppm Antimony 6010	F	53				MACTEC Engineering & Consulting, In
0606373-03	Be: ppm Beryllium 6010	F	54				MACTEC Engineering & Consulting, In
0606373-03	Cd: ppm Cadmium 6010	F	55				MACTEC Engineering & Consulting, In
0606373-03	Cr: ppm Chromium 6010	F	56				MACTEC Engineering & Consulting, In
0606373-03	Cu: ppm Copper 6010	F	57				MACTEC Engineering & Consulting, In
0606373-03	Pb: ppm Lead 6010	F	58				MACTEC Engineering & Consulting, In
0606373-03	Ni: ppm Nickel 6010	F	59				MACTEC Engineering & Consulting, In
BPG0218-CCB5	QC		60				
BPG0218-CCV5	QC		61		6F23007		
0606373-03	Se: ppm Selenium 6010	F	62				MACTEC Engineering & Consulting, In
0606373-03	Ag: ppm Silver 6010	F	63				MACTEC Engineering & Consulting, In
0606373-03	Zn: ppm Zinc 6010	F	64				MACTEC Engineering & Consulting, In
0606373-03	Ba: ppm Barium 6010	F	65				MACTEC Engineering & Consulting, In
0606373-04	Sb: ppm Antimony 6010	F	66				MACTEC Engineering & Consulting, In

Samples Loaded By

Date

Data Processed By

Date

## ANALYSIS SEQUENCE

BPG0218

Instrument: ICP3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606373-04	Be: ppm Beryllium 6010	F	67				MACTEC Engineering & Consulting, In
0606373-04	Cd: ppm Cadmium 6010	F	68				MACTEC Engineering & Consulting, In
0606373-04	Cr: ppm Chromium 6010	F	69				MACTEC Engineering & Consulting, In
0606373-04	Cu: ppm Copper 6010	F	70				MACTEC Engineering & Consulting, In
0606373-04	Pb: ppm Lead 6010	F	71				MACTEC Engineering & Consulting, In
BPG0218-CCB6	QC		72				
BPG0218-CCV6	QC		73		6F23007		
0606373-04	Ni: ppm Nickel 6010	F	74				MACTEC Engineering & Consulting, In
0606373-04	Se: ppm Selenium 6010	F	75				MACTEC Engineering & Consulting, In
0606373-04	Ag: ppm Silver 6010	F	76				MACTEC Engineering & Consulting, In
0606373-04	Zn: ppm Zinc 6010	F	77				MACTEC Engineering & Consulting, In
0606373-04	Ba: ppm Barium 6010	F	78				MACTEC Engineering & Consulting, In
0606373-05	Sb: ppm Antimony 6010	F	79				MACTEC Engineering & Consulting, In
0606373-05	Be: ppm Beryllium 6010	F	80				MACTEC Engineering & Consulting, In
0606373-05	Cd: ppm Cadmium 6010	F	81				MACTEC Engineering & Consulting, In
0606373-05	Cr: ppm Chromium 6010	F	82				MACTEC Engineering & Consulting, In
0606373-05	Cu: ppm Copper 6010	F	83				MACTEC Engineering & Consulting, In
BPG0218-CCB7	QC		84				
BPG0218-CCV7	QC		85		6F23007		
0606373-05	Pb: ppm Lead 6010	F	86				MACTEC Engineering & Consulting, In
0606373-05	Ni: ppm Nickel 6010	F	87				MACTEC Engineering & Consulting, In
0606373-05	Se: ppm Selenium 6010	F	88				MACTEC Engineering & Consulting, In
0606373-05	Ag: ppm Silver 6010	F	89				MACTEC Engineering & Consulting, In
0606373-05	Zn: ppm Zinc 6010	F	90				MACTEC Engineering & Consulting, In
0606373-05	Ba: ppm Barium 6010	F	91				MACTEC Engineering & Consulting, In
0606373-06	Sb: ppm Antimony 6010	F	92				MACTEC Engineering & Consulting, In
0606373-06	Be: ppm Beryllium 6010	F	93				MACTEC Engineering & Consulting, In
0606373-06	Cd: ppm Cadmium 6010	F	94				MACTEC Engineering & Consulting, In
0606373-06	Cr: ppm Chromium 6010	F	95				MACTEC Engineering & Consulting, In
BPG0218-CCB8	QC		96				
BPG0218-CCV8	QC		97		6F23007		
0606373-06	Cu: ppm Copper 6010	F	98				MACTEC Engineering & Consulting, In
0606373-06	Pb: ppm Lead 6010	F	99				MACTEC Engineering & Consulting, In

Samples Loaded By

Date

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Date

## ANALYSIS SEQUENCE

BPG0218

Instrument: ICP3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606373-06	Ni: ppm Nickel 6010	F	100				MACTEC Engineering & Consulting, Inc
0606373-06	Se: ppm Selenium 6010	F	101				MACTEC Engineering & Consulting, Inc
0606373-06	Ag: ppm Silver 6010	F	102				MACTEC Engineering & Consulting, Inc
0606373-06	Zn: ppm Zinc 6010	F	103				MACTEC Engineering & Consulting, Inc
0606373-06	Ba: ppm Barium 6010	F	104				MACTEC Engineering & Consulting, Inc
0606373-07	Sb: ppm Antimony 6010	F	105				MACTEC Engineering & Consulting, Inc
0606373-07	Be: ppm Beryllium 6010	F	106				MACTEC Engineering & Consulting, Inc
0606373-07	Cd: ppm Cadmium 6010	F	107				MACTEC Engineering & Consulting, Inc
0606373-07	Cr: ppm Chromium 6010	F	108				MACTEC Engineering & Consulting, Inc
0606373-07	Cu: ppm Copper 6010	F	109				MACTEC Engineering & Consulting, Inc
0606373-07	Pb: ppm Lead 6010	F	110				MACTEC Engineering & Consulting, Inc
0606373-07	Ni: ppm Nickel 6010	F	111				MACTEC Engineering & Consulting, Inc
0606373-07	Se: ppm Selenium 6010	F	112				MACTEC Engineering & Consulting, Inc
0606373-07	Ag: ppm Silver 6010	F	113				MACTEC Engineering & Consulting, Inc
0606373-07	Zn: ppm Zinc 6010	F	114				MACTEC Engineering & Consulting, Inc
0606373-07	Ba: ppm Barium 6010	F	115				MACTEC Engineering & Consulting, Inc
0606373-08	Sb: ppm Antimony 6010	F	116				MACTEC Engineering & Consulting, Inc
0606373-08	Be: ppm Beryllium 6010	F	117				MACTEC Engineering & Consulting, Inc
0606373-08	Cd: ppm Cadmium 6010	F	118				MACTEC Engineering & Consulting, Inc
0606373-08	Ba: ppm Barium 6010	F	119				MACTEC Engineering & Consulting, Inc
0606373-08	Cr: ppm Chromium 6010	F	120				MACTEC Engineering & Consulting, Inc
0606373-08	Cu: ppm Copper 6010	F	121				MACTEC Engineering & Consulting, Inc
0606373-08	Pb: ppm Lead 6010	F	122				MACTEC Engineering & Consulting, Inc
0606373-08	Ni: ppm Nickel 6010	F	123				MACTEC Engineering & Consulting, Inc
0606373-08	Se: ppm Selenium 6010	F	124				MACTEC Engineering & Consulting, Inc
0606373-08	Ag: ppm Silver 6010	F	125				MACTEC Engineering & Consulting, Inc
0606373-08	Zn: ppm Zinc 6010	F	126				MACTEC Engineering & Consulting, Inc
0606373-09	Ba: ppm Barium 6010	F	127				MACTEC Engineering & Consulting, Inc
0606373-09	Sb: ppm Antimony 6010	F	128				MACTEC Engineering & Consulting, Inc
0606373-09	Be: ppm Beryllium 6010	F	129				MACTEC Engineering & Consulting, Inc
0606373-09	Cd: ppm Cadmium 6010	F	130				MACTEC Engineering & Consulting, Inc
0606373-09	Cr: ppm Chromium 6010	F	131				MACTEC Engineering & Consulting, Inc
0606373-09	Cu: ppm Copper 6010	F	132				MACTEC Engineering & Consulting, Inc

Samples Loaded By

Date

Data Processed By

Date

## ANALYSIS SEQUENCE

BPG0218

Instrument: ICP3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606373-09	Pb: ppm Lead 6010	F	133				MACTEC Engineering & Consulting, In
0606373-09	Ni: ppm Nickel 6010	F	134				MACTEC Engineering & Consulting, In
0606373-09	Se: ppm Selenium 6010	F	135				MACTEC Engineering & Consulting, In
0606373-09	Ag: ppm Silver 6010	F	136				MACTEC Engineering & Consulting, In
0606373-09	Zn: ppm Zinc 6010	F	137				MACTEC Engineering & Consulting, In
0606373-10	Ba: ppm Barium 6010	F	138				MACTEC Engineering & Consulting, In
0606373-10	Sb: ppm Antimony 6010	F	139				MACTEC Engineering & Consulting, In
0606373-10	Be: ppm Beryllium 6010	F	140				MACTEC Engineering & Consulting, In
0606373-10	Cd: ppm Cadmium 6010	F	141				MACTEC Engineering & Consulting, In
0606373-10	Cr: ppm Chromium 6010	F	142				MACTEC Engineering & Consulting, In
0606373-10	Cu: ppm Copper 6010	F	143				MACTEC Engineering & Consulting, In
0606373-10	Pb: ppm Lead 6010	F	144				MACTEC Engineering & Consulting, In
0606373-10	Ni: ppm Nickel 6010	F	145				MACTEC Engineering & Consulting, In
0606373-10	Se: ppm Selenium 6010	F	146				MACTEC Engineering & Consulting, In
0606373-10	Ag: ppm Silver 6010	F	147				MACTEC Engineering & Consulting, In
0606373-10	Zn: ppm Zinc 6010	F	148				MACTEC Engineering & Consulting, In
0606373-12	Ba: ppm Barium 6010	F	149				MACTEC Engineering & Consulting, In
0606373-12	Sb: ppm Antimony 6010	F	150				MACTEC Engineering & Consulting, In
0606373-12	Be: ppm Beryllium 6010	F	151				MACTEC Engineering & Consulting, In
0606373-12	Cd: ppm Cadmium 6010	F	152				MACTEC Engineering & Consulting, In
0606373-12	Cr: ppm Chromium 6010	F	153				MACTEC Engineering & Consulting, In
0606373-12	Cu: ppm Copper 6010	F	154				MACTEC Engineering & Consulting, In
0606373-12	Pb: ppm Lead 6010	F	155				MACTEC Engineering & Consulting, In
0606373-12	Ni: ppm Nickel 6010	F	156				MACTEC Engineering & Consulting, In
0606373-12	Se: ppm Selenium 6010	F	157				MACTEC Engineering & Consulting, In
0606373-12	Ag: ppm Silver 6010	F	158				MACTEC Engineering & Consulting, In
0606373-12	Zn: ppm Zinc 6010	F	159				MACTEC Engineering & Consulting, In
0606373-13	Ba: ppm Barium 6010	F	160				MACTEC Engineering & Consulting, In
0606373-13	Sb: ppm Antimony 6010	F	161				MACTEC Engineering & Consulting, In
0606373-13	Be: ppm Beryllium 6010	F	162				MACTEC Engineering & Consulting, In
0606373-13	Cd: ppm Cadmium 6010	F	163				MACTEC Engineering & Consulting, In
0606373-13	Cr: ppm Chromium 6010	F	164				MACTEC Engineering & Consulting, In
0606373-13	Cu: ppm Copper 6010	F	165				MACTEC Engineering & Consulting, In

Samples Loaded By

Date

Data Processed By

Date

## ANALYSIS SEQUENCE

BPG0218

Instrument: ICP3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606373-13	Pb: ppm Lead 6010	F	166				MACTEC Engineering & Consulting, In
0606373-13	Ni: ppm Nickel 6010	F	167				MACTEC Engineering & Consulting, In
0606373-13	Se: ppm Selenium 6010	F	168				MACTEC Engineering & Consulting, In
0606373-13	Ag: ppm Silver 6010	F	169				MACTEC Engineering & Consulting, In
0606373-13	Zn: ppm Zinc 6010	F	170				MACTEC Engineering & Consulting, In
0606373-14	Ba: ppm Barium 6010	F	171				MACTEC Engineering & Consulting, In
0606373-14	Sb: ppm Antimony 6010	F	172				MACTEC Engineering & Consulting, In
0606373-14	Be: ppm Beryllium 6010	F	173				MACTEC Engineering & Consulting, In
0606373-14	Cd: ppm Cadmium 6010	F	174				MACTEC Engineering & Consulting, In
0606373-14	Cr: ppm Chromium 6010	F	175				MACTEC Engineering & Consulting, In
0606373-14	Cu: ppm Copper 6010	F	176				MACTEC Engineering & Consulting, In
0606373-14	Pb: ppm Lead 6010	F	177				MACTEC Engineering & Consulting, In
0606373-14	Ni: ppm Nickel 6010	F	178				MACTEC Engineering & Consulting, In
0606373-14	Se: ppm Selenium 6010	F	179				MACTEC Engineering & Consulting, In
0606373-14	Ag: ppm Silver 6010	F	180				MACTEC Engineering & Consulting, In
0606373-14	Zn: ppm Zinc 6010	F	181				MACTEC Engineering & Consulting, In
0606373-15	Ba: ppm Barium 6010	F	182				MACTEC Engineering & Consulting, In
0606373-15	Sb: ppm Antimony 6010	F	183				MACTEC Engineering & Consulting, In
0606373-15	Be: ppm Beryllium 6010	F	184				MACTEC Engineering & Consulting, In
0606373-15	Cd: ppm Cadmium 6010	F	185				MACTEC Engineering & Consulting, In
0606373-15	Cr: ppm Chromium 6010	F	186				MACTEC Engineering & Consulting, In
0606373-15	Cu: ppm Copper 6010	F	187				MACTEC Engineering & Consulting, In
0606373-15	Pb: ppm Lead 6010	F	188				MACTEC Engineering & Consulting, In
0606373-15	Ni: ppm Nickel 6010	F	189				MACTEC Engineering & Consulting, In
0606373-15	Se: ppm Selenium 6010	F	190				MACTEC Engineering & Consulting, In
0606373-15	Ag: ppm Silver 6010	F	191				MACTEC Engineering & Consulting, In
0606373-15	Zn: ppm Zinc 6010	F	192				MACTEC Engineering & Consulting, In
0606373-16	Ba: ppm Barium 6010	F	193				MACTEC Engineering & Consulting, In
0606373-16	Sb: ppm Antimony 6010	F	194				MACTEC Engineering & Consulting, In
0606373-16	Be: ppm Beryllium 6010	F	195				MACTEC Engineering & Consulting, In
0606373-16	Cd: ppm Cadmium 6010	F	196				MACTEC Engineering & Consulting, In
0606373-16	Cr: ppm Chromium 6010	F	197				MACTEC Engineering & Consulting, In
0606373-16	Cu: ppm Copper 6010	F	198				MACTEC Engineering & Consulting, In

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0606373-16	Pb: ppm Lead 6010	F	199				MACTEC Engineering & Consulting, In
0606373-16	Ni: ppm Nickel 6010	F	200				MACTEC Engineering & Consulting, In
0606373-16	Se: ppm Selenium 6010	F	201				MACTEC Engineering & Consulting, In
0606373-16	Ag: ppm Silver 6010	F	202				MACTEC Engineering & Consulting, In
0606373-16	Zn: ppm Zinc 6010	F	203				MACTEC Engineering & Consulting, In
0606373-17	Ba: ppm Barium 6010	F	204				MACTEC Engineering & Consulting, In
0606373-17	Sb: ppm Antimony 6010	F	205				MACTEC Engineering & Consulting, In
0606373-17	Be: ppm Beryllium 6010	F	206				MACTEC Engineering & Consulting, In
0606373-17	Cd: ppm Cadmium 6010	F	207				MACTEC Engineering & Consulting, In
0606373-17	Cr: ppm Chromium 6010	F	208				MACTEC Engineering & Consulting, In
0606373-17	Cu: ppm Copper 6010	F	209				MACTEC Engineering & Consulting, In
0606373-17	Pb: ppm Lead 6010	F	210				MACTEC Engineering & Consulting, In
0606373-17	Ni: ppm Nickel 6010	F	211				MACTEC Engineering & Consulting, In
0606373-17	Se: ppm Selenium 6010	F	212				MACTEC Engineering & Consulting, In
0606373-17	Ag: ppm Silver 6010	F	213				MACTEC Engineering & Consulting, In
0606373-17	Zn: ppm Zinc 6010	F	214				MACTEC Engineering & Consulting, In
0606373-18	Ba: ppm Barium 6010	F	215				MACTEC Engineering & Consulting, In
0606373-18	Sb: ppm Antimony 6010	F	216				MACTEC Engineering & Consulting, In
0606373-18	Be: ppm Beryllium 6010	F	217				MACTEC Engineering & Consulting, In
0606373-18	Cd: ppm Cadmium 6010	F	218				MACTEC Engineering & Consulting, In
0606373-18	Cr: ppm Chromium 6010	F	219				MACTEC Engineering & Consulting, In
0606373-18	Cu: ppm Copper 6010	F	220				MACTEC Engineering & Consulting, In
0606373-18	Pb: ppm Lead 6010	F	221				MACTEC Engineering & Consulting, In
0606373-18	Ni: ppm Nickel 6010	F	222				MACTEC Engineering & Consulting, In
0606373-18	Se: ppm Selenium 6010	F	223				MACTEC Engineering & Consulting, In
0606373-18	Ag: ppm Silver 6010	F	224				MACTEC Engineering & Consulting, In
0606373-18	Zn: ppm Zinc 6010	F	225				MACTEC Engineering & Consulting, In
0606373-19	Sb: ppm Antimony 6010	F	226				MACTEC Engineering & Consulting, In
0606373-19	Be: ppm Beryllium 6010	F	227				MACTEC Engineering & Consulting, In
0606373-19	Cd: ppm Cadmium 6010	F	228				MACTEC Engineering & Consulting, In
0606373-19	Cr: ppm Chromium 6010	F	229				MACTEC Engineering & Consulting, In
0606373-19	Cu: ppm Copper 6010	F	230				MACTEC Engineering & Consulting, In
0606373-19	Pb: ppm Lead 6010	F	231				MACTEC Engineering & Consulting, In

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Instrument: ICP3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606373-19	Ni: ppm Nickel 6010	F	232				MACTEC Engineering & Consulting, In
0606373-19	Se: ppm Selenium 6010	F	233				MACTEC Engineering & Consulting, In
0606373-19	Ag: ppm Silver 6010	F	234				MACTEC Engineering & Consulting, In
0606373-19	Zn: ppm Zinc 6010	F	235				MACTEC Engineering & Consulting, In
0606373-19	Ba: ppm Barium 6010	F	236				MACTEC Engineering & Consulting, In
BPG0218-SRD1	QC		237				
BPG0218-SRD2	QC		238				
BF62320-BLK1	QC		239				
BF62320-BS1	QC		240				
BF62320-BSD1	QC		241				
BF62320-SRM1	QC		242				
BF62320-DUP1	QC		243				
BF62320-MS1	QC		244				
BF62320-PS1	QC		245				
BF62320-DUP2	QC		246				
BF62320-MS2	QC		247				
BF62320-PS2	QC		248				
BPG0218-SRD3	QC		249				
BPG0218-SRD4	QC		250				
0606373-20	Ag: ppm Silver 6010	F	251				MACTEC Engineering & Consulting, In
0606373-20	Ba: ppm Barium 6010	F	252				MACTEC Engineering & Consulting, In
0606373-20	Be: ppm Beryllium 6010	F	253				MACTEC Engineering & Consulting, In
0606373-20	Cd: ppm Cadmium 6010	F	254				MACTEC Engineering & Consulting, In
0606373-20	Cr: ppm Chromium 6010	F	255				MACTEC Engineering & Consulting, In
0606373-20	Cu: ppm Copper 6010	F	256				MACTEC Engineering & Consulting, In
0606373-20	Ni: ppm Nickel 6010	F	257				MACTEC Engineering & Consulting, In
0606373-20	Pb: ppm Lead 6010	F	258				MACTEC Engineering & Consulting, In
0606373-20	Sb: ppm Antimony 6010	F	259				MACTEC Engineering & Consulting, In
0606373-20	Se: ppm Selenium 6010	F	260				MACTEC Engineering & Consulting, In
0606373-20	Zn: ppm Zinc 6010	F	261				MACTEC Engineering & Consulting, In
0606373-21	Ag: ppm Silver 6010	F	262				MACTEC Engineering & Consulting, In
0606373-21	Ba: ppm Barium 6010	F	263				MACTEC Engineering & Consulting, In
0606373-21	Be: ppm Beryllium 6010	F	264				MACTEC Engineering & Consulting, In



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Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606373-21	Cd: ppm Cadmium 6010	F	265				MACTEC Engineering & Consulting, In
0606373-21	Cr: ppm Chromium 6010	F	266				MACTEC Engineering & Consulting, In
0606373-21	Cu: ppm Copper 6010	F	267				MACTEC Engineering & Consulting, In
0606373-21	Ni: ppm Nickel 6010	F	268				MACTEC Engineering & Consulting, In
0606373-21	Pb: ppm Lead 6010	F	269				MACTEC Engineering & Consulting, In
0606373-21	Sb: ppm Antimony 6010	F	270				MACTEC Engineering & Consulting, In
0606373-21	Se: ppm Selenium 6010	F	271				MACTEC Engineering & Consulting, In
0606373-21	Zn: ppm Zinc 6010	F	272				MACTEC Engineering & Consulting, In
0606374-01	Ag: ppm Silver 6010	F	273				MACTEC Engineering & Consulting, In
0606374-01	Ba: ppm Barium 6010	F	274				MACTEC Engineering & Consulting, In
0606374-01	Be: ppm Beryllium 6010	F	275				MACTEC Engineering & Consulting, In
0606374-01	Cd: ppm Cadmium 6010	F	276				MACTEC Engineering & Consulting, In
0606374-01	Cr: ppm Chromium 6010	F	277				MACTEC Engineering & Consulting, In
0606374-01	Cu: ppm Copper 6010	F	278				MACTEC Engineering & Consulting, In
0606374-01	Ni: ppm Nickel 6010	F	279				MACTEC Engineering & Consulting, In
0606374-01	Pb: ppm Lead 6010	F	280				MACTEC Engineering & Consulting, In
0606374-01	Sb: ppm Antimony 6010	F	281				MACTEC Engineering & Consulting, In
0606374-01	Se: ppm Selenium 6010	F	282				MACTEC Engineering & Consulting, In
0606374-01	Zn: ppm Zinc 6010	F	283				MACTEC Engineering & Consulting, In
0606374-02	Ag: ppm Silver 6010	F	284				MACTEC Engineering & Consulting, In
0606374-02	Ba: ppm Barium 6010	F	285				MACTEC Engineering & Consulting, In
0606374-02	Be: ppm Beryllium 6010	F	286				MACTEC Engineering & Consulting, In
0606374-02	Cd: ppm Cadmium 6010	F	287				MACTEC Engineering & Consulting, In
0606374-02	Cr: ppm Chromium 6010	F	288				MACTEC Engineering & Consulting, In
0606374-02	Cu: ppm Copper 6010	F	289				MACTEC Engineering & Consulting, In
0606374-02	Ni: ppm Nickel 6010	F	290				MACTEC Engineering & Consulting, In
0606374-02	Pb: ppm Lead 6010	F	291				MACTEC Engineering & Consulting, In
0606374-02	Sb: ppm Antimony 6010	F	292				MACTEC Engineering & Consulting, In
0606374-02	Se: ppm Selenium 6010	F	293				MACTEC Engineering & Consulting, In
0606374-02	Zn: ppm Zinc 6010	F	294				MACTEC Engineering & Consulting, In
0606374-03	Ag: ppm Silver 6010	F	295				MACTEC Engineering & Consulting, In
0606374-03	Ba: ppm Barium 6010	F	296				MACTEC Engineering & Consulting, In
0606374-03	Be: ppm Beryllium 6010	F	297				MACTEC Engineering & Consulting, In

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Instrument: ICP3

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0606374-03	Cd: ppm Cadmium 6010	F	298				MACTEC Engineering & Consulting, In
0606374-03	Cr: ppm Chromium 6010	F	299				MACTEC Engineering & Consulting, In
0606374-03	Cu: ppm Copper 6010	F	300				MACTEC Engineering & Consulting, In
0606374-03	Ni: ppm Nickel 6010	F	301				MACTEC Engineering & Consulting, In
0606374-03	Pb: ppm Lead 6010	F	302				MACTEC Engineering & Consulting, In
0606374-03	Sb: ppm Antimony 6010	F	303				MACTEC Engineering & Consulting, In
0606374-03	Se: ppm Selenium 6010	F	304				MACTEC Engineering & Consulting, In
0606374-03	Zn: ppm Zinc 6010	F	305				MACTEC Engineering & Consulting, In
0606374-04	Ag: ppm Silver 6010	F	306				MACTEC Engineering & Consulting, In
0606374-04	Ba: ppm Barium 6010	F	307				MACTEC Engineering & Consulting, In
0606374-04	Be: ppm Beryllium 6010	F	308				MACTEC Engineering & Consulting, In
0606374-04	Cd: ppm Cadmium 6010	F	309				MACTEC Engineering & Consulting, In
0606374-04	Cr: ppm Chromium 6010	F	310				MACTEC Engineering & Consulting, In
0606374-04	Cu: ppm Copper 6010	F	311				MACTEC Engineering & Consulting, In
0606374-04	Ni: ppm Nickel 6010	F	312				MACTEC Engineering & Consulting, In
0606374-04	Pb: ppm Lead 6010	F	313				MACTEC Engineering & Consulting, In
0606374-04	Sb: ppm Antimony 6010	F	314				MACTEC Engineering & Consulting, In
0606374-04	Se: ppm Selenium 6010	F	315				MACTEC Engineering & Consulting, In
0606374-04	Zn: ppm Zinc 6010	F	316				MACTEC Engineering & Consulting, In
0606374-05	Ag: ppm Silver 6010	F	317				MACTEC Engineering & Consulting, In
0606374-05	Ba: ppm Barium 6010	F	318				MACTEC Engineering & Consulting, In
0606374-05	Be: ppm Beryllium 6010	F	319				MACTEC Engineering & Consulting, In
0606374-05	Cd: ppm Cadmium 6010	F	320				MACTEC Engineering & Consulting, In
0606374-05	Cr: ppm Chromium 6010	F	321				MACTEC Engineering & Consulting, In
0606374-05	Cu: ppm Copper 6010	F	322				MACTEC Engineering & Consulting, In
0606374-05	Ni: ppm Nickel 6010	F	323				MACTEC Engineering & Consulting, In
0606374-05	Pb: ppm Lead 6010	F	324				MACTEC Engineering & Consulting, In
0606374-05	Sb: ppm Antimony 6010	F	325				MACTEC Engineering & Consulting, In
0606374-05	Se: ppm Selenium 6010	F	326				MACTEC Engineering & Consulting, In
0606374-05	Zn: ppm Zinc 6010	F	327				MACTEC Engineering & Consulting, In
0606374-06	Ag: ppm Silver 6010	F	328				MACTEC Engineering & Consulting, In
0606374-06	Ba: ppm Barium 6010	F	329				MACTEC Engineering & Consulting, In
0606374-06	Be: ppm Beryllium 6010	F	330				MACTEC Engineering & Consulting, In

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Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606374-06	Cd: ppm Cadmium 6010	F	331				MACTEC Engineering & Consulting, Inc
0606374-06	Cr: ppm Chromium 6010	F	332				MACTEC Engineering & Consulting, Inc
0606374-06	Cu: ppm Copper 6010	F	333				MACTEC Engineering & Consulting, Inc
0606374-06	Ni: ppm Nickel 6010	F	334				MACTEC Engineering & Consulting, Inc
0606374-06	Pb: ppm Lead 6010	F	335				MACTEC Engineering & Consulting, Inc
0606374-06	Sb: ppm Antimony 6010	F	336				MACTEC Engineering & Consulting, Inc
0606374-06	Se: ppm Selenium 6010	F	337				MACTEC Engineering & Consulting, Inc
0606374-06	Zn: ppm Zinc 6010	F	338				MACTEC Engineering & Consulting, Inc
0606374-07	Ag: ppm Silver 6010	F	339				MACTEC Engineering & Consulting, Inc
0606374-07	Ba: ppm Barium 6010	F	340				MACTEC Engineering & Consulting, Inc
0606374-07	Be: ppm Beryllium 6010	F	341				MACTEC Engineering & Consulting, Inc
0606374-07	Cd: ppm Cadmium 6010	F	342				MACTEC Engineering & Consulting, Inc
0606374-07	Cr: ppm Chromium 6010	F	343				MACTEC Engineering & Consulting, Inc
0606374-07	Cu: ppm Copper 6010	F	344				MACTEC Engineering & Consulting, Inc
0606374-07	Ni: ppm Nickel 6010	F	345				MACTEC Engineering & Consulting, Inc
0606374-07	Pb: ppm Lead 6010	F	346				MACTEC Engineering & Consulting, Inc
0606374-07	Sb: ppm Antimony 6010	F	347				MACTEC Engineering & Consulting, Inc
0606374-07	Se: ppm Selenium 6010	F	348				MACTEC Engineering & Consulting, Inc
0606374-07	Zn: ppm Zinc 6010	F	349				MACTEC Engineering & Consulting, Inc
0606374-08	Ag: ppm Silver 6010	F	350				MACTEC Engineering & Consulting, Inc
0606374-08	Ba: ppm Barium 6010	F	351				MACTEC Engineering & Consulting, Inc
0606374-08	Be: ppm Beryllium 6010	F	352				MACTEC Engineering & Consulting, Inc
0606374-08	Cd: ppm Cadmium 6010	F	353				MACTEC Engineering & Consulting, Inc
0606374-08	Cr: ppm Chromium 6010	F	354				MACTEC Engineering & Consulting, Inc
0606374-08	Cu: ppm Copper 6010	F	355				MACTEC Engineering & Consulting, Inc
0606374-08	Ni: ppm Nickel 6010	F	356				MACTEC Engineering & Consulting, Inc
0606374-08	Pb: ppm Lead 6010	F	357				MACTEC Engineering & Consulting, Inc
0606374-08	Sb: ppm Antimony 6010	F	358				MACTEC Engineering & Consulting, Inc
0606374-08	Se: ppm Selenium 6010	F	359				MACTEC Engineering & Consulting, Inc
0606374-08	Zn: ppm Zinc 6010	F	360				MACTEC Engineering & Consulting, Inc
0606374-09	Ag: ppm Silver 6010	F	361				MACTEC Engineering & Consulting, Inc
0606374-09	Ba: ppm Barium 6010	F	362				MACTEC Engineering & Consulting, Inc
0606374-09	Be: ppm Beryllium 6010	F	363				MACTEC Engineering & Consulting, Inc

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0606374-09	Cd: ppm Cadmium 6010	F	364				MACTEC Engineering & Consulting, In
0606374-09	Cr: ppm Chromium 6010	F	365				MACTEC Engineering & Consulting, In
0606374-09	Cu: ppm Copper 6010	F	366				MACTEC Engineering & Consulting, In
0606374-09	Ni: ppm Nickel 6010	F	367				MACTEC Engineering & Consulting, In
0606374-09	Pb: ppm Lead 6010	F	368				MACTEC Engineering & Consulting, In
0606374-09	Sb: ppm Antimony 6010	F	369				MACTEC Engineering & Consulting, In
0606374-09	Se: ppm Selenium 6010	F	370				MACTEC Engineering & Consulting, In
0606374-09	Zn: ppm Zinc 6010	F	371				MACTEC Engineering & Consulting, In
0606374-10	Ag: ppm Silver 6010	F	372				MACTEC Engineering & Consulting, In
0606374-10	Ba: ppm Barium 6010	F	373				MACTEC Engineering & Consulting, In
0606374-10	Be: ppm Beryllium 6010	F	374				MACTEC Engineering & Consulting, In
0606374-10	Cd: ppm Cadmium 6010	F	375				MACTEC Engineering & Consulting, In
0606374-10	Cr: ppm Chromium 6010	F	376				MACTEC Engineering & Consulting, In
0606374-10	Cu: ppm Copper 6010	F	377				MACTEC Engineering & Consulting, In
0606374-10	Ni: ppm Nickel 6010	F	378				MACTEC Engineering & Consulting, In
0606374-10	Pb: ppm Lead 6010	F	379				MACTEC Engineering & Consulting, In
0606374-10	Sb: ppm Antimony 6010	F	380				MACTEC Engineering & Consulting, In
0606374-10	Se: ppm Selenium 6010	F	381				MACTEC Engineering & Consulting, In
0606374-10	Zn: ppm Zinc 6010	F	382				MACTEC Engineering & Consulting, In
0606374-11	Ag: ppm Silver 6010	F	383				MACTEC Engineering & Consulting, In
0606374-11	Ba: ppm Barium 6010	F	384				MACTEC Engineering & Consulting, In
0606374-11	Be: ppm Beryllium 6010	F	385				MACTEC Engineering & Consulting, In
0606374-11	Cd: ppm Cadmium 6010	F	386				MACTEC Engineering & Consulting, In
0606374-11	Cr: ppm Chromium 6010	F	387				MACTEC Engineering & Consulting, In
0606374-11	Cu: ppm Copper 6010	F	388				MACTEC Engineering & Consulting, In
0606374-11	Ni: ppm Nickel 6010	F	389				MACTEC Engineering & Consulting, In
0606374-11	Pb: ppm Lead 6010	F	390				MACTEC Engineering & Consulting, In
0606374-11	Sb: ppm Antimony 6010	F	391				MACTEC Engineering & Consulting, In
0606374-11	Se: ppm Selenium 6010	F	392				MACTEC Engineering & Consulting, In
0606374-11	Zn: ppm Zinc 6010	F	393				MACTEC Engineering & Consulting, In
0606374-12	Ag: ppm Silver 6010	F	394				MACTEC Engineering & Consulting, In
0606374-12	Ba: ppm Barium 6010	F	395				MACTEC Engineering & Consulting, In
0606374-12	Be: ppm Beryllium 6010	F	396				MACTEC Engineering & Consulting, In

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0606374-12	Cd: ppm Cadmium 6010	F	397				MACTEC Engineering & Consulting, In
0606374-12	Cr: ppm Chromium 6010	F	398				MACTEC Engineering & Consulting, In
0606374-12	Cu: ppm Copper 6010	F	399				MACTEC Engineering & Consulting, In
0606374-12	Ni: ppm Nickel 6010	F	400				MACTEC Engineering & Consulting, In
0606374-12	Pb: ppm Lead 6010	F	401				MACTEC Engineering & Consulting, In
0606374-12	Sb: ppm Antimony 6010	F	402				MACTEC Engineering & Consulting, In
0606374-12	Se: ppm Selenium 6010	F	403				MACTEC Engineering & Consulting, In
0606374-12	Zn: ppm Zinc 6010	F	404				MACTEC Engineering & Consulting, In
0606374-13	Ag: ppm Silver 6010	F	405				MACTEC Engineering & Consulting, In
0606374-13	Ba: ppm Barium 6010	F	406				MACTEC Engineering & Consulting, In
0606374-13	Be: ppm Beryllium 6010	F	407				MACTEC Engineering & Consulting, In
0606374-13	Cd: ppm Cadmium 6010	F	408				MACTEC Engineering & Consulting, In
0606374-13	Cr: ppm Chromium 6010	F	409				MACTEC Engineering & Consulting, In
0606374-13	Cu: ppm Copper 6010	F	410				MACTEC Engineering & Consulting, In
0606374-13	Ni: ppm Nickel 6010	F	411				MACTEC Engineering & Consulting, In
0606374-13	Pb: ppm Lead 6010	F	412				MACTEC Engineering & Consulting, In
0606374-13	Sb: ppm Antimony 6010	F	413				MACTEC Engineering & Consulting, In
0606374-13	Se: ppm Selenium 6010	F	414				MACTEC Engineering & Consulting, In
0606374-13	Zn: ppm Zinc 6010	F	415				MACTEC Engineering & Consulting, In
0606374-14	Ag: ppm Silver 6010	F	416				MACTEC Engineering & Consulting, In
0606374-14	Ba: ppm Barium 6010	F	417				MACTEC Engineering & Consulting, In
0606374-14	Be: ppm Beryllium 6010	F	418				MACTEC Engineering & Consulting, In
0606374-14	Cd: ppm Cadmium 6010	F	419				MACTEC Engineering & Consulting, In
0606374-14	Cr: ppm Chromium 6010	F	420				MACTEC Engineering & Consulting, In
0606374-14	Cu: ppm Copper 6010	F	421				MACTEC Engineering & Consulting, In
0606374-14	Ni: ppm Nickel 6010	F	422				MACTEC Engineering & Consulting, In
0606374-14	Pb: ppm Lead 6010	F	423				MACTEC Engineering & Consulting, In
0606374-14	Sb: ppm Antimony 6010	F	424				MACTEC Engineering & Consulting, In
0606374-14	Se: ppm Selenium 6010	F	425				MACTEC Engineering & Consulting, In
0606374-14	Zn: ppm Zinc 6010	F	426				MACTEC Engineering & Consulting, In
0606374-15	Ag: ppm Silver 6010	F	427				MACTEC Engineering & Consulting, In
0606374-15	Ba: ppm Barium 6010	F	428				MACTEC Engineering & Consulting, In
0606374-15	Be: ppm Beryllium 6010	F	429				MACTEC Engineering & Consulting, In

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Instrument: ICP3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606374-15	Cd: ppm Cadmium 6010	F	430				MACTEC Engineering & Consulting, In
0606374-15	Cr: ppm Chromium 6010	F	431				MACTEC Engineering & Consulting, In
0606374-15	Cu: ppm Copper 6010	F	432				MACTEC Engineering & Consulting, In
0606374-15	Ni: ppm Nickel 6010	F	433				MACTEC Engineering & Consulting, In
0606374-15	Pb: ppm Lead 6010	F	434				MACTEC Engineering & Consulting, In
0606374-15	Sb: ppm Antimony 6010	F	435				MACTEC Engineering & Consulting, In
0606374-15	Se: ppm Selenium 6010	F	436				MACTEC Engineering & Consulting, In
0606374-15	Zn: ppm Zinc 6010	F	437				MACTEC Engineering & Consulting, In
0606374-16	Ag: ppm Silver 6010	F	438				MACTEC Engineering & Consulting, In
0606374-16	Ba: ppm Barium 6010	F	439				MACTEC Engineering & Consulting, In
0606374-16	Be: ppm Beryllium 6010	F	440				MACTEC Engineering & Consulting, In
0606374-16	Cd: ppm Cadmium 6010	F	441				MACTEC Engineering & Consulting, In
0606374-16	Cr: ppm Chromium 6010	F	442				MACTEC Engineering & Consulting, In
0606374-16	Cu: ppm Copper 6010	F	443				MACTEC Engineering & Consulting, In
0606374-16	Ni: ppm Nickel 6010	F	444				MACTEC Engineering & Consulting, In
0606374-16	Pb: ppm Lead 6010	F	445				MACTEC Engineering & Consulting, In
0606374-16	Sb: ppm Antimony 6010	F	446				MACTEC Engineering & Consulting, In
0606374-16	Se: ppm Selenium 6010	F	447				MACTEC Engineering & Consulting, In
0606374-16	Zn: ppm Zinc 6010	F	448				MACTEC Engineering & Consulting, In
BPG0218-IFA2	QC		449		6F13074		
BPG0218-IFB2	QC		450		6F13075		

Samples Loaded By

Date

Data Processed By

Date

**ESS Laboratory  
ICP Data Review Checklist**

SIF: 062306-0A Date Run: 6/23/06  
 Method: everything - DV Y-IS: 3364206-0  
 Project Number(s): 06361, 373, 374, 375 SOP NO. 30 6010B

Review Item	Yes (X)	No (X)	N/A (X)
1. Does the daily standard curve consist of a Calibration Blank and the required minimum number of calibration standards and is $R^2 > 0.995$ for all elements?	X		
2. Is the mid-point initial calibration standard reanalyzed immediately after calibration and results within QC limits? ( $\pm 5\%$ for 200.7, $10\%$ for 6010B)	X		
3. Are interference check standards analyzed at the beginning of each analytical run and within QC limits?	X		
4. Is the ICV from a second source and is its percent within QC limits ( $\pm 10\%$ and $\%RPD < 5$ )?	X		
5. Is the CRI standard $20\%$ of the true value?	X		
6. Are the CCVs analyzed at required frequency and all parameters within QC limits? ( $\pm 10\%$ )	X		
7. Are the CCB standards analyzed at required frequency and at the end of the analytical sequence and are all parameters within QC limits? ( $< MRL$ )	X		
8. Is the method blank run at the desired frequency and is its concentration for target analytes less than the MRL?	X		
9. Is the Laboratory Control Sample run at the desired frequency and is the percent recovery within QC limits? ( $\pm 15\%$ for 200.7, $\pm 20\%$ for 6010B)	X		
10. Is the Matrix Duplicate run at the desired frequency and is the RPD within QC limits? ( $\pm 20\%$ for aqueous and $+ 35\%$ for soil samples/ All USACE/Navy samples $\leq 25\%$ )		X	
11. Is the matrix spike run at the desired frequency and is the percent recovery /RPD within QC limits? (75-125%)		X	
12. Is a Serial Dilution Analysis performed at the desired frequency and within QC limits? ( $\pm 10\%$ )	X		
13. Are post-digestion spikes analyzed at the desired frequency and within QC limits? (85-115% for 200.7, 75-125% for 6010B)	X		
14. Are all samples with concentrations greater than the linear dynamic range diluted and reanalyzed?	X		
15. Are all sample IDs and units checked for transcription errors?	X		
16. Are all nonconformances included and noted?	X		
17. Is the correct methodology used for sample prep and analysis?	X		
18. Are all sample holding times met?	X		
19. Did analyst sign/date the appropriate print outs and report sheets?	X		

Comments on any "No" response:

BF62317 - Dupl Cu; MS1 CuSbZn; MS2 Sb  
BF62320 - Dupl Cu; MS1 Sb; MS2 CuCrSb  
6/24/06

Analyst: SP Date: 6/24/06 2<sup>nd</sup> Level Review: SW Date: 6/26/06

Seq.	Loc.	Sample ID
1	1	Calib Blank 1
2	2	Calib Std 1
3	3	Calib Std 2
4	4	Calib Std 3
5	3	STD2
6	5	ICV
7	1	ICCB
8	6	CRI1
9	7	CRI2
10	8	CRI3
11	160	ICSA
12	159	ICSAB
13	3	CCV
14	1	ICCB
15	9	BF62317-BLK1
16	10	BF62317-BS1
17	11	BF62317-BSD1
18	12	BF62317-SRM1
19	13	0606361-01
20	14	0606361-02
21	15	0606373-01
22	16	0606373-02
23	17	0606373-03
24	18	0606373-04
25	3	CCV
26	1	ICCB
27	19	0606373-05
28	20	0606373-06
29	21	0606373-07
30	22	0606373-08
31	23	BF62317-DUP1
32	24	BF62317-MS1
33	25	BF62317-SD1
34	26	BF62317-PDS1
35	27	0606373-09
36	28	0606373-10
37	3	CCV
38	1	ICCB
39	29	0606373-12
40	30	0606373-13
41	31	0606373-14
42	32	0606373-15
43	33	0606373-16
44	34	0606373-17
45	35	0606373-18
46	36	BF62317-DUP2
47	37	BF62317-MS2
48	38	BF62317-SD2
49	3	CCV
50	1	ICCB
51	39	BF62317-PDS2
52	40	0606373-19
53	41	BF62320-BLK1
54	42	BF62320-BS1
55	43	BF62320-BSD1
56	44	BF62320-SRM1

Ag 0.005  
 As 0.02  
 Ba 0.01  
 Be 0.001  
 Cd 0.005  
 Cr 0.01  
 Cu 0.01  
 U<sub>i</sub> 0.01  
 Pb 0.02  
 Sb 0.01  
 Se 0.1  
 Ti 0.05  
 Zn 0.01



Method : Everything-DV

Seq.	Loc.	Sample ID
57	45	0606374-01
58	46	0606374-02
59	47	0606374-03
60	48	0606374-04
61	3	CCV
62	1	ICCB
63	49	0606374-05
64	50	0606374-06
65	51	0606374-07
66	52	0606374-08
67	53	0606374-09
68	54	0606374-10
69	55	BF62320-DUP1
70	56	BF62320-MS1
71	57	BF62320-SD1
72	58	BF62320-PDS1
73	3	CCV
74	1	ICCB
75	59	0606374-11
76	60	0606374-12
77	61	0606374-13
78	62	0606374-14
79	63	BF62320-DUP2
80	64	BF62320-MS2
81	65	BF62320-SD2
82	66	BF62320-PDS2
83	67	0606374-15
84	68	0606374-16
85	3	CCV
86	1	ICCB
87	69	0606373-20
88	70	0606373-21
89	71	0606375-02
90	3	CCV
91	1	ICCB
92	160	ICSA
93	159	ICSAB
94	0	WASH

=====  
Analysis Begun

Start Time: 6/23/2006 7:14:51 PM

Plasma On Time: 6/23/2006 11:38:53 AM

Logged In Analyst: ICP3

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1032302 Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\062306NA.sif

Batch ID: 062306NA

Results Data Set: 062306nad

Results Library: Q:\Metals\Results\ICP3\Results\Results.mdb

=====  
Sequence No.: 1

Autosampler Location: 1

Sample ID: Calib Blank 1

Date Collected: 6/23/2006 7:14:51 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:  
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## Replicate Data: Calib Blank 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	K 766.490†	602.9	607.4	[0.00] mg/L	19:16:25
1	Li 670.784†	170.9	172.2	[0.00] mg/L	19:16:25
1	Na 589.592	-833.7	-833.7	[0.00] mg/L	19:16:25
1	Y 371.029	3339058.5	3339058.5	0.993 mg/L	19:16:39
1	Ag 328.068†	-2583.9	-2603.4	[0.00] mg/L	19:16:44
1	Al 237.313†	-31.7	-31.9	[0.00] mg/L	19:17:04
1	As 188.979†	4.9	4.9	[0.00] mg/L	19:17:04
1	B 182.528†	-4.7	-4.8	[0.00] mg/L	19:17:04
1	Ba 233.527†	-175.0	-176.3	[0.00] mg/L	19:17:04
1	Be 313.107†	2225.4	2242.2	[0.00] mg/L	19:16:44
1	Ca 315.886†	1875.8	1889.9	[0.00] mg/L	19:16:44
1	Cd 228.802†	113.0	113.9	[0.00] mg/L	19:17:04
1	Co 228.616†	-176.9	-178.2	[0.00] mg/L	19:17:04
1	Cr 267.716†	1393.8	1404.3	[0.00] mg/L	19:16:44
1	Cu 324.752†	1863.5	1877.5	[0.00] mg/L	19:16:44
1	Fe 234.349†	1235.0	1244.3	[0.00] mg/L	19:17:04
1	Fe 238.204†	1093.5	1101.7	[0.00] mg/L	19:17:04
1	Mg 279.077†	579.2	583.6	[0.00] mg/L	19:16:44
1	Mn 257.610†	1880.2	1894.3	[0.00] mg/L	19:16:44
1	Mo 202.031†	36.6	36.8	[0.00] mg/L	19:17:04
1	Ni 231.604†	26.6	26.8	[0.00] mg/L	19:17:04
1	P 214.914†	51.0	51.4	[0.00] mg/L	19:17:04
1	Pb 220.353†	-146.2	-147.3	[0.00] mg/L	19:17:04
1	Sb 206.836†	11.7	11.8	[0.00] mg/L	19:17:04
1	Se 196.026†	-2.4	-2.4	[0.00] mg/L	19:17:04
1	Sn 189.927†	191.7	193.2	[0.00] mg/L	19:17:04
1	Sr 407.771†	6328.5	6376.1	[0.00] mg/L	19:16:39
1	Ti 337.279†	-2069.1	-2084.7	[0.00] mg/L	19:16:44
1	Tl 190.801†	19.6	19.7	[0.00] mg/L	19:17:04
1	V 292.402†	-1629.5	-1641.8	[0.00] mg/L	19:16:44
1	Zn 213.857†	668.7	673.7	[0.00] mg/L	19:17:04
2	K 766.490†	519.3	515.4	[0.00] mg/L	19:16:31
2	Li 670.784†	169.1	167.9	[0.00] mg/L	19:16:31
2	Na 589.592	-792.7	-792.7	[0.00] mg/L	19:16:31
2	Y 371.029	3389353.5	3389353.5	1.01 mg/L	19:17:10
2	Ag 328.068†	-2523.0	-2504.3	[0.00] mg/L	19:17:15
2	Al 237.313†	-74.7	-74.2	[0.00] mg/L	19:17:36
2	As 188.979†	4.5	4.5	[0.00] mg/L	19:17:36
2	B 182.528†	-0.7	-0.7	[0.00] mg/L	19:17:36
2	Ba 233.527†	-185.0	-183.6	[0.00] mg/L	19:17:36
2	Be 313.107†	2178.9	2162.8	[0.00] mg/L	19:17:15
2	Ca 315.886†	1762.5	1749.4	[0.00] mg/L	19:17:15
2	Cd 228.802†	118.4	117.5	[0.00] mg/L	19:17:36
2	Co 228.616†	-176.8	-175.5	[0.00] mg/L	19:17:36
2	Cr 267.716†	1316.7	1306.9	[0.00] mg/L	19:17:15
2	Cu 324.752†	1984.1	1969.4	[0.00] mg/L	19:17:15
2	Fe 234.349†	1241.1	1231.9	[0.00] mg/L	19:17:36
2	Fe 238.204†	1137.5	1129.1	[0.00] mg/L	19:17:36

2	Mg 279.077†	505.6	501.9	[0.00] mg/L	19:17:15
2	Mn 257.610†	1883.8	1869.9	[0.00] mg/L	19:17:15
2	Mo 202.031†	38.0	37.8	[0.00] mg/L	19:17:36
2	Ni 231.604†	32.6	32.4	[0.00] mg/L	19:17:36
2	P 214.914†	36.4	36.1	[0.00] mg/L	19:17:36
2	Pb 220.353†	-156.9	-155.7	[0.00] mg/L	19:17:36
2	Sb 206.836†	18.7	18.6	[0.00] mg/L	19:17:36
2	Se 196.026†	-5.7	-5.7	[0.00] mg/L	19:17:36
2	Sn 189.927†	187.9	186.5	[0.00] mg/L	19:17:36
2	Sr 407.771†	6279.8	6233.2	[0.00] mg/L	19:17:10
2	Ti 337.279†	-1877.7	-1863.8	[0.00] mg/L	19:17:15
2	Tl 190.801†	19.4	19.3	[0.00] mg/L	19:17:36
2	V 292.402†	-1624.0	-1612.0	[0.00] mg/L	19:17:15
2	Zn 213.857†	679.1	674.1	[0.00] mg/L	19:17:36

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 Mean Data: Calib Blank 1

Analyte	Mean Corrected			Calib	
	Intensity	Std.Dev.	RSD	Conc.	Units
Y 371.029	3364206.0	35563.93	1.06%	1.00	mg/L
Ag 328.068†	-2553.8	70.07	2.74%	[0.00]	mg/L
Al 237.313†	-53.0	29.85	56.27%	[0.00]	mg/L
As 188.979†	4.7	0.31	6.51%	[0.00]	mg/L
B 182.528†	-2.7	2.91	107.16%	[0.00]	mg/L
Ba 233.527†	-179.9	5.20	2.89%	[0.00]	mg/L
Be 313.107†	2202.5	56.13	2.55%	[0.00]	mg/L
Ca 315.886†	1819.7	99.32	5.46%	[0.00]	mg/L
Cd 228.802†	115.7	2.58	2.23%	[0.00]	mg/L
Co 228.616†	-176.8	1.94	1.10%	[0.00]	mg/L
Cr 267.716†	1355.6	68.90	5.08%	[0.00]	mg/L
Cu 324.752†	1923.4	64.99	3.38%	[0.00]	mg/L
Fe 234.349†	1238.1	8.80	0.71%	[0.00]	mg/L
Fe 238.204†	1115.4	19.38	1.74%	[0.00]	mg/L
K 766.490†	561.4	65.04	11.58%	[0.00]	mg/L
Li 670.784†	170.0	3.07	1.81%	[0.00]	mg/L
Mg 279.077†	542.7	57.77	10.64%	[0.00]	mg/L
Mn 257.610†	1882.1	17.31	0.92%	[0.00]	mg/L
Mo 202.031†	37.3	0.66	1.77%	[0.00]	mg/L
Na 589.592	-813.2	28.95	3.56%	[0.00]	mg/L
Ni 231.604†	29.6	3.92	13.24%	[0.00]	mg/L
P 214.914†	43.8	10.85	24.79%	[0.00]	mg/L
Pb 220.353†	-151.5	5.98	3.95%	[0.00]	mg/L
Sb 206.836†	15.2	4.75	31.26%	[0.00]	mg/L
Se 196.026†	-4.0	2.31	56.97%	[0.00]	mg/L
Sn 189.927†	189.8	4.74	2.50%	[0.00]	mg/L
Sr 407.771†	6304.7	101.03	1.60%	[0.00]	mg/L
Ti 337.279†	-1974.2	156.17	7.91%	[0.00]	mg/L
Tl 190.801†	19.5	0.34	1.77%	[0.00]	mg/L
V 292.402†	-1626.9	21.09	1.30%	[0.00]	mg/L
Zn 213.857†	673.9	0.26	0.04%	[0.00]	mg/L

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Sequence No.: 2

Sample ID: Calib Std 1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 6/23/2006 7:19:13 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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Replicate Data: Calib Std 1

Repl#	Analyte	Net	Corrected	Calib.	Analysis Time
		Intensity	Intensity		
1	K 766.490†	9692.4	9224.3	[5.0000] mg/L	19:20:47
1	Li 670.784†	3619.3	3484.1	[0.1] mg/L	19:20:47
1	Na 589.592	41907.3	42720.5	[5.0000] mg/L	19:20:47
1	Y 371.029	3332146.7	3332146.7	0.990 mg/L	19:21:00
1	Ag 328.068†	12183.6	14854.6	[0.05] mg/L	19:21:06
1	Al 237.313†	4361.0	4456.0	[0.5] mg/L	19:21:06
1	As 188.979†	75.4	71.4	[0.1000] mg/L	19:21:26
1	B 182.528†	39.1	42.2	[0.1000] mg/L	19:21:26
1	Ba 233.527†	11946.9	12241.8	[0.1000] mg/L	19:21:06
1	Be 313.107†	50113.5	48393.2	[0.0100] mg/L	19:21:06

1	Ca 315.886†	147144.6	146740.7	[1.0000]	mg/L	19:21:00
1	Cd 228.802†	2161.7	2066.9	[0.0500]	mg/L	19:21:26
1	Co 228.616†	3743.6	3956.4	[0.1000]	mg/L	19:21:26
1	Cr 267.716†	17006.8	15814.9	[0.1000]	mg/L	19:21:06
1	Cu 324.752†	28930.1	27285.0	[0.1000]	mg/L	19:21:06
1	Fe 234.349†	27923.1	26953.7	[0.5]	mg/L	19:21:06
1	Fe 238.204†	60682.4	60150.8	[0.5]	mg/L	19:21:06
1	Mg 279.077†	26060.2	25768.3	[1.0000]	mg/L	19:21:06
1	Mn 257.610†	96018.9	95060.6	[0.1000]	mg/L	19:21:06
1	Mo 202.031†	1567.8	1545.5	[0.1000]	mg/L	19:21:26
1	Ni 231.604†	3209.6	3210.8	[0.1000]	mg/L	19:21:06
1	P 214.914†	1410.1	1379.9	[1]	mg/L	19:21:26
1	Pb 220.353†	761.5	920.4	[0.1000]	mg/L	19:21:26
1	Sb 206.836†	221.9	208.9	[0.1000]	mg/L	19:21:26
1	Se 196.026†	145.5	150.9	[0.2000]	mg/L	19:21:26
1	Sn 189.927†	622.1	438.2	[0.1000]	mg/L	19:21:26
1	Sr 407.771†	234912.4	230867.8	[0.0100]	mg/L	19:21:00
1	Ti 337.279†	76884.3	79598.3	[0.1000]	mg/L	19:21:06
1	Tl 190.801†	109.3	90.9	[0.1000]	mg/L	19:21:26
1	V 292.402†	23641.0	25495.4	[0.1000]	mg/L	19:21:06
1	Zn 213.857†	8391.0	7797.8	[0.1000]	mg/L	19:21:06
2	K 766.490†	9606.1	9045.0	[5.0000]	mg/L	19:20:52
2	Li 670.784†	3661.2	3491.3	[0.1]	mg/L	19:20:52
2	Na 589.592	41852.7	42665.9	[5.0000]	mg/L	19:20:52
2	Y 371.029	3364111.6	3364111.6	1.000	mg/L	19:21:32
2	Ag 328.068†	12106.3	14660.5	[0.05]	mg/L	19:21:37
2	Al 237.313†	4382.4	4435.5	[0.5]	mg/L	19:21:37
2	As 188.979†	80.1	75.4	[0.1000]	mg/L	19:21:58
2	B 182.528†	38.7	41.5	[0.1000]	mg/L	19:21:58
2	Ba 233.527†	11971.0	12151.3	[0.1000]	mg/L	19:21:37
2	Be 313.107†	50169.3	47968.3	[0.0100]	mg/L	19:21:37
2	Ca 315.886†	148252.8	146437.3	[1.0000]	mg/L	19:21:32
2	Cd 228.802†	2139.5	2023.9	[0.0500]	mg/L	19:21:58
2	Co 228.616†	3722.4	3899.3	[0.1000]	mg/L	19:21:58
2	Cr 267.716†	16895.9	15540.8	[0.1000]	mg/L	19:21:37
2	Cu 324.752†	28815.1	26892.5	[0.1000]	mg/L	19:21:37
2	Fe 234.349†	27753.7	26516.4	[0.5]	mg/L	19:21:37
2	Fe 238.204†	60864.3	59750.6	[0.5]	mg/L	19:21:37
2	Mg 279.077†	25959.0	25417.0	[1.0000]	mg/L	19:21:37
2	Mn 257.610†	96297.4	94418.0	[0.1000]	mg/L	19:21:37
2	Mo 202.031†	1561.4	1524.1	[0.1000]	mg/L	19:21:58
2	Ni 231.604†	3137.9	3108.3	[0.1000]	mg/L	19:21:37
2	P 214.914†	1414.8	1371.1	[1]	mg/L	19:21:58
2	Pb 220.353†	758.5	910.1	[0.1000]	mg/L	19:21:58
2	Sb 206.836†	216.3	201.1	[0.1000]	mg/L	19:21:58
2	Se 196.026†	144.8	148.9	[0.2000]	mg/L	19:21:58
2	Sn 189.927†	606.6	416.8	[0.1000]	mg/L	19:21:58
2	Sr 407.771†	236843.5	230545.5	[0.0100]	mg/L	19:21:32
2	Ti 337.279†	77213.3	79189.7	[0.1000]	mg/L	19:21:37
2	Tl 190.801†	107.1	87.6	[0.1000]	mg/L	19:21:58
2	V 292.402†	23412.5	25040.0	[0.1000]	mg/L	19:21:37
2	Zn 213.857†	8402.8	7729.1	[0.1000]	mg/L	19:21:37

Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Y 371.029	3348129.2	22602.63	0.68%	0.995 mg/L
Ag 328.068†	14757.6	137.30	0.93%	[0.05] mg/L
Al 237.313†	4445.8	14.45	0.32%	[0.5] mg/L
As 188.979†	73.4	2.82	3.84%	[0.1000] mg/L
B 182.528†	41.8	0.53	1.26%	[0.1000] mg/L
Ba 233.527†	12196.5	64.01	0.52%	[0.1000] mg/L
Be 313.107†	48180.7	300.45	0.62%	[0.0100] mg/L
Ca 315.886†	146589.0	214.51	0.15%	[1.0000] mg/L
Cd 228.802†	2045.4	30.38	1.49%	[0.0500] mg/L
Co 228.616†	3927.9	40.37	1.03%	[0.1000] mg/L
Cr 267.716†	15677.8	193.80	1.24%	[0.1000] mg/L
Cu 324.752†	27088.8	277.55	1.02%	[0.1000] mg/L
Fe 234.349†	26735.1	309.20	1.16%	[0.5] mg/L
Fe 238.204†	59950.7	282.97	0.47%	[0.5] mg/L
K 766.490†	9134.6	126.80	1.39%	[5.0000] mg/L

Li 670.784†	3487.7	5.09	0.15%	[0.1]	mg/L
Mg 279.077†	25592.6	248.38	0.97%	[1.0000]	mg/L
Mn 257.610†	94739.3	454.37	0.48%	[0.1000]	mg/L
Mo 202.031†	1534.8	15.13	0.99%	[0.1000]	mg/L
Na 589.592	42693.2	38.65	0.09%	[5.0000]	mg/L
Ni 231.604†	3159.6	72.48	2.29%	[0.1000]	mg/L
P 214.914†	1375.5	6.20	0.45%	[1]	mg/L
Pb 220.353†	915.2	7.29	0.80%	[0.1000]	mg/L
Sb 206.836†	205.0	5.47	2.67%	[0.1000]	mg/L
Se 196.026†	149.9	1.45	0.97%	[0.2000]	mg/L
Sn 189.927†	427.5	15.17	3.55%	[0.1000]	mg/L
Sr 407.771†	230706.7	227.93	0.10%	[0.0100]	mg/L
Ti 337.279†	79394.0	288.89	0.36%	[0.1000]	mg/L
Tl 190.801†	89.3	2.31	2.59%	[0.1000]	mg/L
V 292.402†	25267.7	322.00	1.27%	[0.1000]	mg/L
Zn 213.857†	7763.5	48.55	0.63%	[0.1000]	mg/L

Sequence No.: 3

Sample ID: Calib Std 2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/23/2006 7:23:35 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: Calib Std 2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	K 766.490†	45716.5	46005.1	[25.0000] mg/L	19:25:10
1	Li 670.784†	17824.4	17985.8	[0.5] mg/L	19:25:10
1	Na 589.592	207538.1	208351.3	[25.000] mg/L	19:25:10
1	Y 371.029	3302797.2	3302797.2	0.982 mg/L	19:25:25
1	Ag 328.068†	68550.1	72378.4	[0.25] mg/L	19:25:30
1	Al 237.313†	21547.8	22001.5	[2.5] mg/L	19:25:30
1	As 188.979†	356.2	358.2	[0.5000] mg/L	19:25:50
1	B 182.528†	207.4	213.9	[0.5000] mg/L	19:25:50
1	Ba 233.527†	58617.0	59886.8	[0.5000] mg/L	19:25:30
1	Be 313.107†	236792.9	238993.1	[0.0500] mg/L	19:25:25
1	Ca 315.886†	718934.3	730481.8	[5.0000] mg/L	19:25:25
1	Cd 228.802†	10057.2	10128.5	[0.2500] mg/L	19:25:50
1	Co 228.616†	18481.7	19002.1	[0.5000] mg/L	19:25:30
1	Cr 267.716†	76807.0	76879.5	[0.5000] mg/L	19:25:30
1	Cu 324.752†	131774.3	132300.9	[0.5000] mg/L	19:25:30
1	Fe 234.349†	129594.7	130766.2	[2.5] mg/L	19:25:30
1	Fe 238.204†	288686.5	292938.7	[2.5] mg/L	19:25:30
1	Mg 279.077†	123166.3	124913.6	[5.0000] mg/L	19:25:30
1	Mn 257.610†	452238.2	458764.5	[0.5000] mg/L	19:25:25
1	Mo 202.031†	7470.7	7572.3	[0.5000] mg/L	19:25:50
1	Ni 231.604†	15235.3	15488.9	[0.5000] mg/L	19:25:30
1	P 214.914†	6836.2	6919.6	[5] mg/L	19:25:50
1	Pb 220.353†	4215.5	4445.4	[0.5000] mg/L	19:25:50
1	Sb 206.836†	1029.6	1033.6	[0.5000] mg/L	19:25:50
1	Se 196.026†	761.4	779.6	[1.0000] mg/L	19:25:50
1	Sn 189.927†	2073.8	1922.6	[0.5000] mg/L	19:25:50
1	Sr 407.771†	1099531.5	1113670.3	[0.0500] mg/L	19:25:25
1	Ti 337.279†	384935.7	394067.0	[0.5000] mg/L	19:25:30
1	Tl 190.801†	544.9	535.5	[0.5000] mg/L	19:25:50
1	V 292.402†	121040.1	124917.4	[0.5000] mg/L	19:25:30
1	Zn 213.857†	38383.1	38422.8	[0.5000] mg/L	19:25:30
2	K 766.490†	45238.6	45066.6	[25.0000] mg/L	19:25:15
2	Li 670.784†	17588.9	17570.4	[0.5] mg/L	19:25:15
2	Na 589.592	204854.8	205668.0	[25.000] mg/L	19:25:15
2	Y 371.029	3335489.2	3335489.2	0.991 mg/L	19:25:57
2	Ag 328.068†	68876.4	72023.2	[0.25] mg/L	19:26:03
2	Al 237.313†	21663.6	21903.2	[2.5] mg/L	19:26:03
2	As 188.979†	352.2	350.5	[0.5000] mg/L	19:26:23
2	B 182.528†	212.2	216.8	[0.5000] mg/L	19:26:23
2	Ba 233.527†	59035.9	59724.1	[0.5000] mg/L	19:26:03
2	Be 313.107†	239140.7	238997.1	[0.0500] mg/L	19:25:57
2	Ca 315.886†	725443.5	729869.5	[5.0000] mg/L	19:25:57
2	Cd 228.802†	10108.4	10079.8	[0.2500] mg/L	19:26:23
2	Co 228.616†	18552.5	18889.0	[0.5000] mg/L	19:26:03

2	Cr 267.716†	77385.4	76696.0	[0.5000]	mg/L	19:26:03
2	Cu 324.752†	132835.3	132055.5	[0.5000]	mg/L	19:26:03
2	Fe 234.349†	130763.8	130651.6	[2.5]	mg/L	19:26:03
2	Fe 238.204†	290751.6	292139.4	[2.5]	mg/L	19:26:03
2	Mg 279.077†	123849.3	124372.9	[5.0000]	mg/L	19:26:03
2	Mn 257.610†	456375.8	458422.9	[0.5000]	mg/L	19:25:57
2	Mo 202.031†	7517.5	7544.9	[0.5000]	mg/L	19:26:23
2	Ni 231.604†	15456.1	15559.6	[0.5000]	mg/L	19:26:03
2	P 214.914†	6854.8	6870.1	[5]	mg/L	19:26:23
2	Pb 220.353†	4254.5	4442.7	[0.5000]	mg/L	19:26:23
2	Sb 206.836†	1048.2	1042.1	[0.5000]	mg/L	19:26:23
2	Se 196.026†	760.8	771.4	[1.0000]	mg/L	19:26:23
2	Sn 189.927†	2093.8	1922.0	[0.5000]	mg/L	19:26:23
2	Sr 407.771†	1110374.8	1113629.8	[0.0500]	mg/L	19:25:57
2	Ti 337.279†	387700.9	393013.1	[0.5000]	mg/L	19:26:03
2	Tl 190.801†	568.2	553.6	[0.5000]	mg/L	19:26:23
2	V 292.402†	121949.5	124626.3	[0.5000]	mg/L	19:26:03
2	Zn 213.857†	38699.5	38358.8	[0.5000]	mg/L	19:26:03

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**Mean Data: Calib Std 2**

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Y 371.029	3319143.2	23116.69	0.70%	0.987 mg/L
Ag 328.068†	72200.8	251.17	0.35%	[0.25] mg/L
Al 237.313†	21952.4	69.52	0.32%	[2.5] mg/L
As 188.979†	354.3	5.43	1.53%	[0.5000] mg/L
B 182.528†	215.4	2.02	0.94%	[0.5000] mg/L
Ba 233.527†	59805.4	115.01	0.19%	[0.5000] mg/L
Be 313.107†	238995.1	2.83	0.00%	[0.0500] mg/L
Ca 315.886†	730175.6	432.91	0.06%	[5.0000] mg/L
Cd 228.802†	10104.2	34.48	0.34%	[0.2500] mg/L
Co 228.616†	18945.6	79.96	0.42%	[0.5000] mg/L
Cr 267.716†	76787.8	129.73	0.17%	[0.5000] mg/L
Cu 324.752†	132178.2	173.52	0.13%	[0.5000] mg/L
Fe 234.349†	130708.9	81.06	0.06%	[2.5] mg/L
Fe 238.204†	292539.1	565.14	0.19%	[2.5] mg/L
K 766.490†	45535.9	663.61	1.46%	[25.0000] mg/L
Li 670.784†	17778.1	293.78	1.65%	[0.5] mg/L
Mg 279.077†	124643.3	382.37	0.31%	[5.0000] mg/L
Mn 257.610†	458593.7	241.58	0.05%	[0.5000] mg/L
Mo 202.031†	7558.6	19.34	0.26%	[0.5000] mg/L
Na 589.592	207009.6	1897.39	0.92%	[25.000] mg/L
Ni 231.604†	15524.3	49.96	0.32%	[0.5000] mg/L
P 214.914†	6894.8	35.00	0.51%	[5] mg/L
Pb 220.353†	4444.0	1.93	0.04%	[0.5000] mg/L
Sb 206.836†	1037.8	6.00	0.58%	[0.5000] mg/L
Se 196.026†	775.5	5.84	0.75%	[1.0000] mg/L
Sn 189.927†	1922.3	0.42	0.02%	[0.5000] mg/L
Sr 407.771†	1113650.1	28.63	0.00%	[0.0500] mg/L
Ti 337.279†	393540.0	745.25	0.19%	[0.5000] mg/L
Tl 190.801†	544.6	12.82	2.35%	[0.5000] mg/L
V 292.402†	124771.9	205.84	0.16%	[0.5000] mg/L
Zn 213.857†	38390.8	45.31	0.12%	[0.5000] mg/L

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Sequence No.: 4

Sample ID: Calib Std 3

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 6/23/2006 7:28:01 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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**Replicate Data: Calib Std 3**

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib Conc. Units	Analysis Time
1	K 766.490†	89171.3	91559.2	[50.0000] mg/L	19:29:40
1	Li 670.784†	33973.8	34927.5	[1] mg/L	19:29:40
1	Na 589.592	410626.4	411439.6	[50.000] mg/L	19:29:40
1	Y 371.029	3256498.5	3256498.5	0.968 mg/L	19:29:57
1	Ag 328.068†	137922.3	145037.8	[0.5] mg/L	19:30:03
1	Al 237.313†	43396.1	44884.4	[5] mg/L	19:30:03

1	As 188.979†	719.0	738.1	[1.0000]	mg/L	19:30:23
1	B 182.528†	430.4	447.3	[1.0000]	mg/L	19:30:23
1	Ba 233.527†	117614.6	121684.6	[1.0000]	mg/L	19:30:03
1	Be 313.107†	476109.9	489654.6	[0.1000]	mg/L	19:30:03
1	Ca 315.886†	1413486.6	1458417.5	[10.0000]	mg/L	19:29:57
1	Cd 228.802†	19896.5	20438.9	[0.5000]	mg/L	19:30:23
1	Co 228.616†	37190.9	38597.8	[1.0000]	mg/L	19:30:23
1	Cr 267.716†	152703.7	156398.7	[1.0000]	mg/L	19:30:03
1	Cu 324.752†	260246.3	266930.4	[1.0000]	mg/L	19:30:03
1	Fe 234.349†	258442.1	265751.9	[5.0]	mg/L	19:30:03
1	Fe 238.204†	575655.5	593579.7	[5.0]	mg/L	19:30:03
1	Mg 279.077†	245591.7	253171.8	[10.0000]	mg/L	19:30:03
1	Mn 257.610†	883692.0	911037.7	[1.0000]	mg/L	19:29:57
1	Mo 202.031†	14858.7	15312.8	[1.0000]	mg/L	19:30:23
1	Ni 231.604†	30726.8	31713.5	[1.0000]	mg/L	19:30:03
1	P 214.914†	13745.3	14156.1	[10]	mg/L	19:30:23
1	Pb 220.353†	8510.4	8943.4	[1.0000]	mg/L	19:30:23
1	Sb 206.836†	2044.0	2096.4	[1.0000]	mg/L	19:30:23
1	Se 196.026†	1544.1	1599.2	[2.0000]	mg/L	19:30:23
1	Sn 189.927†	3873.1	3811.3	[1.0000]	mg/L	19:30:23
1	Sr 407.771†	2153330.1	2218246.0	[0.1000]	mg/L	19:29:57
1	Ti 337.279†	775169.8	802782.5	[1.0000]	mg/L	19:30:03
1	Tl 190.801†	1198.0	1218.1	[1.0000]	mg/L	19:30:23
1	V 292.402†	245455.4	255200.6	[1.0000]	mg/L	19:30:03
1	Zn 213.857†	76689.3	78551.9	[1.0000]	mg/L	19:30:03
2	K 766.490†	89857.5	90866.8	[50.0000]	mg/L	19:29:47
2	Li 670.784†	34144.3	34571.1	[1]	mg/L	19:29:47
2	Na 589.592	411949.9	412763.1	[50.000]	mg/L	19:29:47
2	Y 371.029	3306410.9	3306410.9	0.983	mg/L	19:30:31
2	Ag 328.068†	137509.4	142466.8	[0.5]	mg/L	19:30:37
2	Al 237.313†	42843.2	43645.1	[5]	mg/L	19:30:37
2	As 188.979†	719.0	726.8	[1.0000]	mg/L	19:30:57
2	B 182.528†	432.1	442.4	[1.0000]	mg/L	19:30:57
2	Ba 233.527†	116194.5	118405.5	[1.0000]	mg/L	19:30:37
2	Be 313.107†	471395.5	477432.9	[0.1000]	mg/L	19:30:37
2	Ca 315.886†	1433879.8	1457123.9	[10.0000]	mg/L	19:30:31
2	Cd 228.802†	19885.0	20116.9	[0.5000]	mg/L	19:30:57
2	Co 228.616†	37122.9	37948.6	[1.0000]	mg/L	19:30:57
2	Cr 267.716†	150765.3	152045.1	[1.0000]	mg/L	19:30:37
2	Cu 324.752†	257869.7	260453.8	[1.0000]	mg/L	19:30:37
2	Fe 234.349†	254762.7	257977.8	[5.0]	mg/L	19:30:37
2	Fe 238.204†	567974.4	576787.0	[5.0]	mg/L	19:30:37
2	Mg 279.077†	241892.3	245577.8	[10.0000]	mg/L	19:30:37
2	Mn 257.610†	895670.9	909444.8	[1.0000]	mg/L	19:30:31
2	Mo 202.031†	14884.6	15107.5	[1.0000]	mg/L	19:30:57
2	Ni 231.604†	30369.5	30870.8	[1.0000]	mg/L	19:30:37
2	P 214.914†	13724.3	13920.4	[10]	mg/L	19:30:57
2	Pb 220.353†	8482.8	8782.6	[1.0000]	mg/L	19:30:57
2	Sb 206.836†	2039.0	2059.5	[1.0000]	mg/L	19:30:57
2	Se 196.026†	1558.6	1589.9	[2.0000]	mg/L	19:30:57
2	Sn 189.927†	3896.9	3775.2	[1.0000]	mg/L	19:30:57
2	Sr 407.771†	2180632.8	2212444.9	[0.1000]	mg/L	19:30:31
2	Ti 337.279†	768387.4	783792.8	[1.0000]	mg/L	19:30:37
2	Tl 190.801†	1209.8	1211.5	[1.0000]	mg/L	19:30:57
2	V 292.402†	242724.5	248594.2	[1.0000]	mg/L	19:30:37
2	Zn 213.857†	75498.0	76143.7	[1.0000]	mg/L	19:30:37

## Mean Data: Calib Std 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	3281454.7	35293.36	1.08%	0.975	mg/L
Ag 328.068†	143752.3	1817.95	1.26%	[0.5]	mg/L
Al 237.313†	44264.8	876.31	1.98%	[5]	mg/L
As 188.979†	732.4	7.96	1.09%	[1.0000]	mg/L
B 182.528†	444.8	3.50	0.79%	[1.0000]	mg/L
Ba 233.527†	120045.0	2318.69	1.93%	[1.0000]	mg/L
Be 313.107†	483543.8	8642.05	1.79%	[0.1000]	mg/L
Ca 315.886†	1457770.7	914.73	0.06%	[10.0000]	mg/L
Cd 228.802†	20277.9	227.73	1.12%	[0.5000]	mg/L
Co 228.616†	38273.2	459.04	1.20%	[1.0000]	mg/L
Cr 267.716†	154221.9	3078.45	2.00%	[1.0000]	mg/L

Cu 324.752†	263692.1	4579.68	1.74%	[1.0000]	mg/L
Fe 234.349†	261864.8	5497.07	2.10%	[5.0]	mg/L
Fe 238.204†	585183.4	11874.24	2.03%	[5.0]	mg/L
K 766.490†	91213.0	489.66	0.54%	[50.0000]	mg/L
Li 670.784†	34749.3	252.03	0.73%	[1]	mg/L
Mg 279.077†	249374.8	5369.80	2.15%	[10.0000]	mg/L
Mn 257.610†	910241.3	1126.32	0.12%	[1.0000]	mg/L
Mo 202.031†	15210.2	145.16	0.95%	[1.0000]	mg/L
Na 589.592	412101.3	935.82	0.23%	[50.000]	mg/L
Ni 231.604†	31292.1	595.88	1.90%	[1.0000]	mg/L
P 214.914†	14038.3	166.68	1.19%	[10]	mg/L
Pb 220.353†	8863.0	113.68	1.28%	[1.0000]	mg/L
Sb 206.836†	2077.9	26.15	1.26%	[1.0000]	mg/L
Se 196.026†	1594.6	6.54	0.41%	[2.0000]	mg/L
Sn 189.927†	3793.3	25.56	0.67%	[1.0000]	mg/L
Sr 407.771†	2215345.5	4102.01	0.19%	[0.1000]	mg/L
Ti 337.279†	793287.7	13427.78	1.69%	[1.0000]	mg/L
Tl 190.801†	1214.8	4.71	0.39%	[1.0000]	mg/L
V 292.402†	251897.4	4671.46	1.85%	[1.0000]	mg/L
Zn 213.857†	77347.8	1702.81	2.20%	[1.0000]	mg/L

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**Calibration Summary**

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin, Calc Int	229.8	287200	0.00000	0.999995	
Al 237.313	3	Lin, Calc Int	-24.8	8845	0.00000	0.999990	
As 188.979	3	Lin, Calc Int	-2.2	730.5	0.00000	0.999842	
B 182.528	3	Lin, Calc Int	-2.5	445.0	0.00000	0.999864	
Ba 233.527	3	Lin, Calc Int	44.9	119900	0.00000	0.999996	
Be 313.107	3	Lin, Calc Int	-592.1	4832000	0.00000	0.999981	
Ca 315.886	3	Lin, Calc Int	599.5	145800	0.00000	1.000000	
Cd 228.802	3	Lin, Calc Int	1.3	40530	0.00000	0.999997	
Co 228.616	3	Lin, Calc Int	9.2	38190	0.00000	0.999978	
Cr 267.716	3	Lin, Calc Int	53.4	154000	0.00000	0.999995	
Cu 324.752	3	Lin, Calc Int	380.8	263400	0.00000	0.999997	
Fe 234.349	3	Lin, Calc Int	201.9	52310	0.00000	0.999997	
Fe 238.204	3	Lin, Calc Int	625.6	116900	0.00000	0.999997	
K 766.490	3	Lin, Calc Int	-7.2	1824	0.00000	1.000000	
Li 670.784	3	Lin, Calc Int	80.5	34810	0.00000	0.999922	
Mg 279.077	3	Lin, Calc Int	282.4	24910	0.00000	0.999996	
Mn 257.610	3	Lin, Calc Int	2292.1	909000	0.00000	0.999988	
Mo 202.031	3	Lin, Calc Int	-2.5	15200	0.00000	0.999993	
Na 589.592	3	Lin, Calc Int	835.7	8231	0.00000	0.999993	
Ni 231.604	3	Lin, Calc Int	-9.1	31260	0.00000	0.999989	
P 214.914	3	Lin, Calc Int	-35.6	1403	0.00000	0.999957	
Pb 220.353	3	Lin, Calc Int	15.2	8851	0.00000	0.999995	
Sb 206.836	3	Lin, Calc Int	-1.4	2079	0.00000	0.999999	
Se 196.026	3	Lin, Calc Int	-8.3	797.8	0.00000	0.999899	
Sn 189.927	3	Lin, Calc Int	26.1	3774	0.00000	0.999921	
Sr 407.771	3	Lin, Calc Int	5177.0	22120000	0.00000	0.999991	
Ti 337.279	3	Lin, Calc Int	-546.8	792800	0.00000	0.999991	
Tl 190.801	3	Lin, Calc Int	-25.9	1220	0.00000	0.998535	
V 292.402	3	Lin, Calc Int	-183.7	251700	0.00000	0.999987	
Zn 213.857	3	Lin, Calc Int	-39.8	77290	0.00000	0.999992	

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 Sequence No.: 5

Sample ID: STD2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/23/2006 7:32:36 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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**Replicate Data: STD2**

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	44856.3	45056.9	24.71 mg/L	24.71 mg/L	19:34:11
1	Li 670.784†	17575.4	17703.9	0.5063 mg/L	0.5063 mg/L	19:34:11
1	Na 589.592	207218.7	208031.9	25.17 mg/L	25.17 mg/L	19:34:11
1	Y 371.029	3308013.0	3308013.0	0.983 mg/L		19:34:26
1	Ag 328.068†	68893.0	72617.1	0.2525 mg/L	0.2525 mg/L	19:34:31



1	Al 237.313†	21723.8	22145.9	2.497 mg/L	2.497 mg/L	19:34:31
1	As 188.979†	358.3	359.7	0.4942 mg/L	0.4942 mg/L	19:34:52
1	B 182.528†	214.6	221.0	0.5021 mg/L	0.5021 mg/L	19:34:52
1	Ba 233.527†	59333.8	60521.6	0.5042 mg/L	0.5042 mg/L	19:34:31
1	Be 313.107†	237326.6	239155.6	0.0492 mg/L	0.0492 mg/L	19:34:26
1	Ca 315.886†	720364.6	730781.7	5.012 mg/L	5.012 mg/L	19:34:26
1	Cd 228.802†	10180.7	10237.9	0.2524 mg/L	0.2524 mg/L	19:34:52
1	Co 228.616†	18691.5	19185.8	0.5009 mg/L	0.5009 mg/L	19:34:31
1	Cr 267.716†	77904.5	77872.3	0.5048 mg/L	0.5048 mg/L	19:34:31
1	Cu 324.752†	133265.1	133605.4	0.5065 mg/L	0.5065 mg/L	19:34:31
1	Fe 234.349†	131381.6	132375.3	2.521 mg/L	2.521 mg/L	19:34:31
1	Fe 238.204†	291916.0	295759.3	2.525 mg/L	2.525 mg/L	19:34:31
1	Mg 279.077†	124565.1	126138.3	5.058 mg/L	5.058 mg/L	19:34:31
1	Mn 257.610†	453492.3	459313.6	0.5029 mg/L	0.5029 mg/L	19:34:26
1	Mo 202.031†	7631.1	7723.4	0.5084 mg/L	0.5084 mg/L	19:34:52
1	Ni 231.604†	15476.5	15709.7	0.5035 mg/L	0.5035 mg/L	19:34:31
1	P 214.914†	6929.2	7003.1	5.016 mg/L	5.016 mg/L	19:34:52
1	Pb 220.353†	4298.3	4522.8	0.5105 mg/L	0.5105 mg/L	19:34:52
1	Sb 206.836†	1055.8	1058.5	0.4991 mg/L	0.4991 mg/L	19:34:52
1	Se 196.026†	785.1	802.5	1.016 mg/L	1.016 mg/L	19:34:52
1	Sn 189.927†	2068.2	1913.5	0.5007 mg/L	0.5007 mg/L	19:34:52
1	Sr 407.771†	1104912.2	1117376.6	0.0503 mg/L	0.0503 mg/L	19:34:26
1	Ti 337.279†	383613.6	392104.3	0.4953 mg/L	0.4953 mg/L	19:34:26
1	Tl 190.801†	617.1	608.1	0.5222 mg/L	0.5222 mg/L	19:34:52
1	V 292.402†	122629.8	126339.7	0.5100 mg/L	0.5100 mg/L	19:34:31
1	Zn 213.857†	38992.1	38980.5	0.5024 mg/L	0.5024 mg/L	19:34:31
2	K 766.490†	44942.4	45027.1	24.69 mg/L	24.69 mg/L	19:34:16
2	Li 670.784†	17538.6	17620.7	0.5039 mg/L	0.5039 mg/L	19:34:16
2	Na 589.592	206829.6	207642.8	25.13 mg/L	25.13 mg/L	19:34:16
2	Y 371.029	3316523.8	3316523.8	0.986 mg/L		19:34:58
2	Ag 328.068†	68904.4	72448.8	0.2519 mg/L	0.2519 mg/L	19:35:04
2	Al 237.313†	21632.1	21996.1	2.481 mg/L	2.481 mg/L	19:35:04
2	As 188.979†	342.2	342.4	0.4705 mg/L	0.4705 mg/L	19:35:24
2	B 182.528†	208.1	213.8	0.4860 mg/L	0.4860 mg/L	19:35:24
2	Ba 233.527†	59136.2	60166.4	0.5013 mg/L	0.5013 mg/L	19:35:04
2	Be 313.107†	238262.9	239486.0	0.0492 mg/L	0.0492 mg/L	19:34:58
2	Ca 315.886†	723729.1	732314.6	5.023 mg/L	5.023 mg/L	19:34:58
2	Cd 228.802†	10080.6	10109.8	0.2494 mg/L	0.2494 mg/L	19:35:24
2	Co 228.616†	18637.2	19082.0	0.4982 mg/L	0.4982 mg/L	19:35:04
2	Cr 267.716†	77505.5	77264.2	0.5008 mg/L	0.5008 mg/L	19:35:04
2	Cu 324.752†	132398.5	132378.5	0.5019 mg/L	0.5019 mg/L	19:35:04
2	Fe 234.349†	131075.8	131722.3	2.509 mg/L	2.509 mg/L	19:35:04
2	Fe 238.204†	291548.9	294625.1	2.516 mg/L	2.516 mg/L	19:35:04
2	Mg 279.077†	124353.5	125598.6	5.036 mg/L	5.036 mg/L	19:35:04
2	Mn 257.610†	455822.4	460493.7	0.5042 mg/L	0.5042 mg/L	19:34:58
2	Mo 202.031†	7569.1	7640.6	0.5030 mg/L	0.5030 mg/L	19:35:24
2	Ni 231.604†	15426.7	15618.9	0.5006 mg/L	0.5006 mg/L	19:35:04
2	P 214.914†	6897.4	6952.8	4.980 mg/L	4.980 mg/L	19:35:24
2	Pb 220.353†	4280.2	4493.3	0.5071 mg/L	0.5071 mg/L	19:35:24
2	Sb 206.836†	1044.9	1044.7	0.4925 mg/L	0.4925 mg/L	19:35:24
2	Se 196.026†	754.4	769.3	0.9746 mg/L	0.9746 mg/L	19:35:24
2	Sn 189.927†	2065.3	1905.2	0.4985 mg/L	0.4985 mg/L	19:35:24
2	Sr 407.771†	1109754.7	1119405.1	0.0504 mg/L	0.0504 mg/L	19:34:58
2	Ti 337.279†	385519.4	393036.3	0.4965 mg/L	0.4965 mg/L	19:34:58
2	Tl 190.801†	619.2	608.6	0.5227 mg/L	0.5227 mg/L	19:35:24
2	V 292.402†	121981.1	125361.7	0.5060 mg/L	0.5060 mg/L	19:35:04
2	Zn 213.857†	38769.3	38652.8	0.4982 mg/L	0.4982 mg/L	19:35:04

Mean Data: STD2

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3312268.4	0.985 mg/L		0.0018			
Ag 328.068†	72533.0	0.2522 mg/L		0.00042	0.2522 mg/L	0.00042	0.18%
QC value within limits for Ag 328.068 Recovery = 100.87%							
Al 237.313†	22071.0	2.489 mg/L		0.0120	2.489 mg/L	0.0120	0.48%
QC value within limits for Al 237.313 Recovery = 99.56%							
As 188.979†	351.0	0.4824 mg/L		0.01674	0.4824 mg/L	0.01674	3.47%
QC value within limits for As 188.979 Recovery = 96.47%							
B 182.528†	217.4	0.4941 mg/L		0.01138	0.4941 mg/L	0.01138	2.30%
QC value within limits for B 182.528 Recovery = 98.82%							
Ba 233.527†	60344.0	0.5028 mg/L		0.00209	0.5028 mg/L	0.00209	0.42%

Be	313.107†	239320.8	0.0492 mg/L	0.00005	0.0492 mg/L	0.00005	0.10%
QC value within limits for Be 313.107 Recovery = 98.43%							
Ca	315.886†	731548.1	5.017 mg/L	0.0074	5.017 mg/L	0.0074	0.15%
QC value within limits for Ca 315.886 Recovery = 100.35%							
Cd	228.802†	10173.9	0.2509 mg/L	0.00215	0.2509 mg/L	0.00215	0.86%
QC value within limits for Cd 228.802 Recovery = 100.35%							
Co	228.616†	19133.9	0.4996 mg/L	0.00192	0.4996 mg/L	0.00192	0.39%
QC value within limits for Co 228.616 Recovery = 99.91%							
Cr	267.716†	77568.2	0.5028 mg/L	0.00279	0.5028 mg/L	0.00279	0.56%
QC value within limits for Cr 267.716 Recovery = 100.56%							
Cu	324.752†	132992.0	0.5042 mg/L	0.00329	0.5042 mg/L	0.00329	0.65%
QC value within limits for Cu 324.752 Recovery = 100.84%							
Fe	234.349†	132048.8	2.515 mg/L	0.0088	2.515 mg/L	0.0088	0.35%
QC value within limits for Fe 234.349 Recovery = 100.59%							
Fe	238.204†	295192.2	2.521 mg/L	0.0069	2.521 mg/L	0.0069	0.27%
QC value within limits for Fe 238.204 Recovery = 100.82%							
K	766.490†	45042.0	24.70 mg/L	0.012	24.70 mg/L	0.012	0.05%
QC value within limits for K 766.490 Recovery = 98.80%							
Li	670.784†	17662.3	0.5051 mg/L	0.00169	0.5051 mg/L	0.00169	0.33%
QC value within limits for Li 670.784 Recovery = 101.02%							
Mg	279.077†	125868.5	5.047 mg/L	0.0153	5.047 mg/L	0.0153	0.30%
QC value within limits for Mg 279.077 Recovery = 100.93%							
Mn	257.610†	459903.7	0.5035 mg/L	0.00092	0.5035 mg/L	0.00092	0.18%
QC value within limits for Mn 257.610 Recovery = 100.70%							
Mo	202.031†	7682.0	0.5057 mg/L	0.00385	0.5057 mg/L	0.00385	0.76%
QC value within limits for Mo 202.031 Recovery = 101.14%							
Na	589.592	207837.4	25.15 mg/L	0.033	25.15 mg/L	0.033	0.13%
QC value within limits for Na 589.592 Recovery = 100.60%							
Ni	231.604†	15664.3	0.5020 mg/L	0.00206	0.5020 mg/L	0.00206	0.41%
QC value within limits for Ni 231.604 Recovery = 100.41%							
P	214.914†	6978.0	4.998 mg/L	0.0254	4.998 mg/L	0.0254	0.51%
QC value within limits for P 214.914 Recovery = 99.97%							
Pb	220.353†	4508.0	0.5088 mg/L	0.00237	0.5088 mg/L	0.00237	0.47%
QC value within limits for Pb 220.353 Recovery = 101.76%							
Sb	206.836†	1051.6	0.4958 mg/L	0.00465	0.4958 mg/L	0.00465	0.94%
QC value within limits for Sb 206.836 Recovery = 99.16%							
Se	196.026†	785.9	0.9954 mg/L	0.02942	0.9954 mg/L	0.02942	2.96%
QC value within limits for Se 196.026 Recovery = 99.54%							
Sn	189.927†	1909.4	0.4996 mg/L	0.00156	0.4996 mg/L	0.00156	0.31%
QC value within limits for Sn 189.927 Recovery = 99.92%							
Sr	407.771†	1118390.9	0.0503 mg/L	0.00006	0.0503 mg/L	0.00006	0.13%
QC value within limits for Sr 407.771 Recovery = 100.66%							
Ti	337.279†	392570.3	0.4959 mg/L	0.00083	0.4959 mg/L	0.00083	0.17%
QC value within limits for Ti 337.279 Recovery = 99.18%							
Tl	190.801†	608.4	0.5225 mg/L	0.00033	0.5225 mg/L	0.00033	0.06%
QC value within limits for Tl 190.801 Recovery = 104.49%							
V	292.402†	125850.7	0.5080 mg/L	0.00281	0.5080 mg/L	0.00281	0.55%
QC value within limits for V 292.402 Recovery = 101.59%							
Zn	213.857†	38816.6	0.5003 mg/L	0.00299	0.5003 mg/L	0.00299	0.60%
QC value within limits for Zn 213.857 Recovery = 100.05%							

All analyte(s) passed QC.

Sequence No.: 6

Sample ID: ICV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 5

Date Collected: 6/23/2006 7:37:03 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	44831.8	45111.1	24.74 mg/L	24.74 mg/L	19:38:38
1	Li 670.784†	17273.7	17427.6	0.4984 mg/L	0.4984 mg/L	19:38:38
1	Na 589.592	203388.6	204201.8	24.71 mg/L	24.71 mg/L	19:38:38
1	Y 371.029	3302280.7	3302280.7	0.982 mg/L		19:38:53
1	Ag 328.068†	69035.2	72883.6	0.2534 mg/L	0.2534 mg/L	19:38:58
1	Al 237.313†	21517.0	21973.5	2.478 mg/L	2.478 mg/L	19:38:58
1	As 188.979†	337.6	339.3	0.4663 mg/L	0.4663 mg/L	19:39:19
1	B 182.528†	203.9	210.5	0.4786 mg/L	0.4786 mg/L	19:39:19

1	Ba 233.527†	58332.5	59606.3	0.4966 mg/L	0.4966 mg/L	19:38:58
1	Be 313.107†	239690.1	241982.4	0.0498 mg/L	0.0498 mg/L	19:38:53
1	Ca 315.886†	722251.6	733975.8	5.034 mg/L	5.034 mg/L	19:38:53
1	Cd 228.802†	10150.3	10224.9	0.2522 mg/L	0.2522 mg/L	19:39:19
1	Co 228.616†	18506.1	19029.9	0.4970 mg/L	0.4970 mg/L	19:38:58
1	Cr 267.716†	77813.3	77916.9	0.5050 mg/L	0.5050 mg/L	19:38:58
1	Cu 324.752†	132179.4	132734.6	0.5032 mg/L	0.5032 mg/L	19:38:58
1	Fe 234.349†	132344.5	133588.1	2.544 mg/L	2.544 mg/L	19:38:58
1	Fe 238.204†	294451.9	298858.2	2.552 mg/L	2.552 mg/L	19:38:58
1	Mg 279.077†	122592.2	124348.4	4.986 mg/L	4.986 mg/L	19:38:58
1	Mn 257.610†	451557.6	458143.2	0.5016 mg/L	0.5016 mg/L	19:38:53
1	Mo 202.031†	7492.4	7595.6	0.5000 mg/L	0.5000 mg/L	19:39:19
1	Ni 231.604†	15395.4	15654.5	0.5017 mg/L	0.5017 mg/L	19:38:58
1	P 214.914†	6734.6	6817.1	4.884 mg/L	4.884 mg/L	19:39:19
1	Pb 220.353†	4202.1	4432.4	0.5002 mg/L	0.5002 mg/L	19:39:19
1	Sb 206.836†	1021.8	1025.8	0.4834 mg/L	0.4834 mg/L	19:39:19
1	Se 196.026†	757.2	775.5	0.9823 mg/L	0.9823 mg/L	19:39:19
1	Sn 189.927†	2059.1	1907.9	0.4992 mg/L	0.4992 mg/L	19:39:19
1	Sr 407.771†	1101862.3	1116220.0	0.0502 mg/L	0.0502 mg/L	19:38:53
1	Ti 337.279†	340095.8	348447.6	0.4402 mg/L	0.4402 mg/L	19:38:58
1	Tl 190.801†	589.5	581.1	0.5002 mg/L	0.5002 mg/L	19:39:19
1	V 292.402†	121127.7	125026.0	0.5047 mg/L	0.5047 mg/L	19:38:58
1	Zn 213.857†	39006.0	39063.5	0.5034 mg/L	0.5034 mg/L	19:38:58
2	K 766.490†	45120.5	45270.3	24.82 mg/L	24.82 mg/L	19:38:44
2	Li 670.784†	17427.9	17532.6	0.5014 mg/L	0.5014 mg/L	19:38:44
2	Na 589.592	207351.3	208164.5	25.19 mg/L	25.19 mg/L	19:38:44
2	Y 371.029	3311998.3	3311998.3	0.984 mg/L	0.984 mg/L	19:39:25
2	Ag 328.068†	69376.2	73023.7	0.2539 mg/L	0.2539 mg/L	19:39:31
2	Al 237.313†	21395.7	21786.1	2.457 mg/L	2.457 mg/L	19:39:31
2	As 188.979†	336.2	336.8	0.4630 mg/L	0.4630 mg/L	19:39:51
2	B 182.528†	207.4	213.4	0.4851 mg/L	0.4851 mg/L	19:39:51
2	Ba 233.527†	57990.7	59084.8	0.4923 mg/L	0.4923 mg/L	19:39:31
2	Be 313.107†	240418.8	242006.1	0.0498 mg/L	0.0498 mg/L	19:39:25
2	Ca 315.886†	726050.8	735676.1	5.046 mg/L	5.046 mg/L	19:39:25
2	Cd 228.802†	10152.2	10196.5	0.2515 mg/L	0.2515 mg/L	19:39:51
2	Co 228.616†	18388.1	18854.8	0.4924 mg/L	0.4924 mg/L	19:39:31
2	Cr 267.716†	77357.4	77221.2	0.5005 mg/L	0.5005 mg/L	19:39:31
2	Cu 324.752†	132092.7	132251.5	0.5013 mg/L	0.5013 mg/L	19:39:31
2	Fe 234.349†	131624.2	132460.9	2.523 mg/L	2.523 mg/L	19:39:31
2	Fe 238.204†	293001.7	296505.0	2.532 mg/L	2.532 mg/L	19:39:31
2	Mg 279.077†	121724.1	123100.2	4.936 mg/L	4.936 mg/L	19:39:31
2	Mn 257.610†	453185.4	458447.0	0.5019 mg/L	0.5019 mg/L	19:39:25
2	Mo 202.031†	7535.1	7616.6	0.5014 mg/L	0.5014 mg/L	19:39:51
2	Ni 231.604†	15322.9	15534.9	0.4979 mg/L	0.4979 mg/L	19:39:31
2	P 214.914†	6726.2	6788.5	4.863 mg/L	4.863 mg/L	19:39:51
2	Pb 220.353†	4210.4	4428.2	0.4998 mg/L	0.4998 mg/L	19:39:51
2	Sb 206.836†	1020.5	1021.4	0.4813 mg/L	0.4813 mg/L	19:39:51
2	Se 196.026†	745.5	761.3	0.9646 mg/L	0.9646 mg/L	19:39:51
2	Sn 189.927†	2067.0	1909.8	0.4996 mg/L	0.4996 mg/L	19:39:51
2	Sr 407.771†	1104352.3	1115455.8	0.0502 mg/L	0.0502 mg/L	19:39:25
2	Ti 337.279†	337887.6	345188.1	0.4361 mg/L	0.4361 mg/L	19:39:31
2	Tl 190.801†	608.7	598.8	0.5147 mg/L	0.5147 mg/L	19:39:51
2	V 292.402†	120520.0	124046.7	0.5008 mg/L	0.5008 mg/L	19:39:31
2	Zn 213.857†	38766.1	38703.3	0.4988 mg/L	0.4988 mg/L	19:39:31

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 Mean Data: ICV

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
Y 371.029	3307139.5	0.983 mg/L		0.0020			0.21%
Ag 328.068†	72953.6	0.2536 mg/L		0.00034	0.2536 mg/L	0.00034	0.14%
QC value within limits for Ag 328.068 Recovery = 101.46%							
Al 237.313†	21879.8	2.467 mg/L		0.0149	2.467 mg/L	0.0149	0.61%
QC value within limits for Al 237.313 Recovery = 98.69%							
As 188.979†	338.0	0.4647 mg/L		0.00235	0.4647 mg/L	0.00235	0.51%
QC value within limits for As 188.979 Recovery = 92.93%							
B 182.528†	211.9	0.4818 mg/L		0.00460	0.4818 mg/L	0.00460	0.95%
QC value within limits for B 182.528 Recovery = 96.37%							
Ba 233.527†	59345.5	0.4944 mg/L		0.00307	0.4944 mg/L	0.00307	0.62%
QC value within limits for Ba 233.527 Recovery = 98.89%							
Be 313.107†	241994.2	0.0498 mg/L		0.00001	0.0498 mg/L	0.00001	0.01%
QC value within limits for Be 313.107 Recovery = 99.66%							

Ca 315.886†	734825.9	5.040 mg/L	0.0082	5.040 mg/L	0.0082	0.16%
QC value within limits for Ca 315.886			Recovery = 100.80%			
Cd 228.802†	10210.7	0.2519 mg/L	0.00050	0.2519 mg/L	0.00050	0.20%
QC value within limits for Cd 228.802			Recovery = 100.74%			
Co 228.616†	18942.4	0.4947 mg/L	0.00324	0.4947 mg/L	0.00324	0.65%
QC value within limits for Co 228.616			Recovery = 98.93%			
Cr 267.716†	77569.0	0.5028 mg/L	0.00319	0.5028 mg/L	0.00319	0.64%
QC value within limits for Cr 267.716			Recovery = 100.56%			
Cu 324.752†	132493.0	0.5023 mg/L	0.00130	0.5023 mg/L	0.00130	0.26%
QC value within limits for Cu 324.752			Recovery = 100.45%			
Fe 234.349†	133024.5	2.534 mg/L	0.0152	2.534 mg/L	0.0152	0.60%
QC value within limits for Fe 234.349			Recovery = 101.34%			
Fe 238.204†	297681.6	2.542 mg/L	0.0142	2.542 mg/L	0.0142	0.56%
QC value within limits for Fe 238.204			Recovery = 101.67%			
K 766.490†	45190.7	24.78 mg/L	0.062	24.78 mg/L	0.062	0.25%
QC value within limits for K 766.490			Recovery = 99.12%			
Li 670.784†	17480.1	0.4999 mg/L	0.00213	0.4999 mg/L	0.00213	0.43%
QC value within limits for Li 670.784			Recovery = 99.97%			
Mg 279.077†	123724.3	4.961 mg/L	0.0354	4.961 mg/L	0.0354	0.71%
QC value within limits for Mg 279.077			Recovery = 99.21%			
Mn 257.610†	458295.1	0.5017 mg/L	0.00024	0.5017 mg/L	0.00024	0.05%
QC value within limits for Mn 257.610			Recovery = 100.35%			
Mo 202.031†	7606.1	0.5007 mg/L	0.00097	0.5007 mg/L	0.00097	0.19%
QC value within limits for Mo 202.031			Recovery = 100.14%			
Na 589.592	206183.2	24.95 mg/L	0.340	24.95 mg/L	0.340	1.36%
QC value within limits for Na 589.592			Recovery = 99.80%			
Ni 231.604†	15594.7	0.4998 mg/L	0.00271	0.4998 mg/L	0.00271	0.54%
QC value within limits for Ni 231.604			Recovery = 99.96%			
P 214.914†	6802.8	4.873 mg/L	0.0144	4.873 mg/L	0.0144	0.30%
QC value within limits for P 214.914			Recovery = 97.47%			
Pb 220.353†	4430.3	0.5000 mg/L	0.00033	0.5000 mg/L	0.00033	0.07%
QC value within limits for Pb 220.353			Recovery = 100.00%			
Sb 206.836†	1023.6	0.4824 mg/L	0.00145	0.4824 mg/L	0.00145	0.30%
QC value within limits for Sb 206.836			Recovery = 96.47%			
Se 196.026†	768.4	0.9735 mg/L	0.01253	0.9735 mg/L	0.01253	1.29%
QC value within limits for Se 196.026			Recovery = 97.35%			
Sn 189.927†	1908.8	0.4994 mg/L	0.00034	0.4994 mg/L	0.00034	0.07%
QC value within limits for Sn 189.927			Recovery = 99.88%			
Sr 407.771†	1115837.9	0.0502 mg/L	0.00002	0.0502 mg/L	0.00002	0.05%
QC value within limits for Sr 407.771			Recovery = 100.43%			
Ti 337.279†	346817.8	0.4382 mg/L	0.00291	0.4382 mg/L	0.00291	0.66%
QC value less than the lower limit for Ti 337.279			Recovery = 87.63%			
Tl 190.801†	589.9	0.5075 mg/L	0.01029	0.5075 mg/L	0.01029	2.03%
QC value within limits for Tl 190.801			Recovery = 101.49%			
V 292.402†	124536.3	0.5027 mg/L	0.00273	0.5027 mg/L	0.00273	0.54%
QC value within limits for V 292.402			Recovery = 100.55%			
Zn 213.857†	38883.4	0.5011 mg/L	0.00328	0.5011 mg/L	0.00328	0.66%
QC value within limits for Zn 213.857			Recovery = 100.22%			

QC Failed. Continue with analysis.

Sequence No.: 7

Sample ID: ICCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 6/23/2006 7:41:31 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	617.1	56.1	0.0347 mg/L	0.0347 mg/L	19:43:05
1	Li 670.784†	186.7	16.8	-0.0018 mg/L	-0.0018 mg/L	19:43:05
1	Na 589.592	-370.5	442.7	-0.0477 mg/L	-0.0477 mg/L	19:43:05
1	Y 371.029	3362453.4	3362453.4	0.999 mg/L		19:43:19
1	Ag 328.068†	-2167.4	385.3	0.0005 mg/L	0.0005 mg/L	19:43:24
1	Al 237.313†	-43.5	9.5	0.0039 mg/L	0.0039 mg/L	19:43:44
1	As 188.979†	11.1	6.3	0.0116 mg/L	0.0116 mg/L	19:43:44
1	B 182.528†	1.8	4.5	0.0157 mg/L	0.0157 mg/L	19:43:44
1	Ba 233.527†	-193.0	-13.1	-0.0005 mg/L	-0.0005 mg/L	19:43:44
1	Be 313.107†	2137.5	-63.9	0.0001 mg/L	0.0001 mg/L	19:43:24
1	Ca 315.886†	1652.2	-166.6	-0.0053 mg/L	-0.0053 mg/L	19:43:24

1	Cd 228.802†	113.7	-1.9	-0.0001 mg/L	-0.0001 mg/L	19:43:44
1	Co 228.616†	-185.7	-9.0	-0.0005 mg/L	-0.0005 mg/L	19:43:44
1	Cr 267.716†	1267.1	-87.8	-0.0009 mg/L	-0.0009 mg/L	19:43:24
1	Cu 324.752†	2078.9	156.5	-0.0009 mg/L	-0.0009 mg/L	19:43:24
1	Fe 234.349†	1240.8	3.4	-0.0038 mg/L	-0.0038 mg/L	19:43:44
1	Fe 238.204†	1160.0	45.2	-0.0050 mg/L	-0.0050 mg/L	19:43:44
1	Mg 279.077†	574.2	31.8	-0.0101 mg/L	-0.0101 mg/L	19:43:24
1	Mn 257.610†	1925.2	44.1	-0.0025 mg/L	-0.0025 mg/L	19:43:24
1	Mo 202.031†	51.4	14.1	0.0011 mg/L	0.0011 mg/L	19:43:44
1	Ni 231.604†	40.2	10.6	0.0006 mg/L	0.0006 mg/L	19:43:44
1	P 214.914†	43.9	0.2	0.0255 mg/L	0.0255 mg/L	19:43:44
1	Pb 220.353†	-162.1	-10.7	-0.0029 mg/L	-0.0029 mg/L	19:43:44
1	Sb 206.836†	5.6	-9.6	-0.0039 mg/L	-0.0039 mg/L	19:43:44
1	Se 196.026†	-8.5	-4.4	0.0048 mg/L	0.0048 mg/L	19:43:44
1	Sn 189.927†	164.2	-25.5	-0.0137 mg/L	-0.0137 mg/L	19:43:44
1	Sr 407.771†	6354.5	53.1	-0.0002 mg/L	-0.0002 mg/L	19:43:19
1	Ti 337.279†	-2063.0	-89.8	0.0006 mg/L	0.0006 mg/L	19:43:24
1	Tl 190.801†	34.7	15.3	0.0337 mg/L	0.0337 mg/L	19:43:44
1	V 292.402†	-1617.6	8.5	0.0008 mg/L	0.0008 mg/L	19:43:24
1	Zn 213.857†	697.8	24.3	0.0008 mg/L	0.0008 mg/L	19:43:44
2	K 766.490†	656.2	97.2	0.0572 mg/L	0.0572 mg/L	19:43:11
2	Li 670.784†	209.4	40.1	-0.0012 mg/L	-0.0012 mg/L	19:43:11
2	Na 589.592	-374.1	439.1	-0.0482 mg/L	-0.0482 mg/L	19:43:11
2	Y 371.029	3352112.9	3352112.9	0.996 mg/L		19:43:50
2	Ag 328.068†	-2309.9	235.6	0.0000 mg/L	0.0000 mg/L	19:43:55
2	Al 237.313†	-44.5	8.4	0.0038 mg/L	0.0038 mg/L	19:44:16
2	As 188.979†	7.5	2.8	0.0068 mg/L	0.0068 mg/L	19:44:16
2	B 182.528†	2.3	5.1	0.0170 mg/L	0.0170 mg/L	19:44:16
2	Ba 233.527†	-174.2	5.1	-0.0003 mg/L	-0.0003 mg/L	19:44:16
2	Be 313.107†	2214.2	19.7	0.0001 mg/L	0.0001 mg/L	19:43:55
2	Ca 315.886†	1757.5	-55.9	-0.0045 mg/L	-0.0045 mg/L	19:43:55
2	Cd 228.802†	125.2	10.0	0.0002 mg/L	0.0002 mg/L	19:44:16
2	Co 228.616†	-181.2	-5.0	-0.0004 mg/L	-0.0004 mg/L	19:44:16
2	Cr 267.716†	1358.7	8.0	-0.0003 mg/L	-0.0003 mg/L	19:43:55
2	Cu 324.752†	1950.3	33.9	-0.0013 mg/L	-0.0013 mg/L	19:43:55
2	Fe 234.349†	1229.8	-3.8	-0.0039 mg/L	-0.0039 mg/L	19:44:16
2	Fe 238.204†	1149.4	38.2	-0.0050 mg/L	-0.0050 mg/L	19:44:16
2	Mg 279.077†	467.0	-74.0	-0.0143 mg/L	-0.0143 mg/L	19:43:55
2	Mn 257.610†	1881.3	6.0	-0.0025 mg/L	-0.0025 mg/L	19:43:55
2	Mo 202.031†	50.3	13.2	0.0010 mg/L	0.0010 mg/L	19:44:16
2	Ni 231.604†	36.5	7.0	0.0005 mg/L	0.0005 mg/L	19:44:16
2	P 214.914†	43.8	0.2	0.0255 mg/L	0.0255 mg/L	19:44:16
2	Pb 220.353†	-159.9	-9.0	-0.0027 mg/L	-0.0027 mg/L	19:44:16
2	Sb 206.836†	8.3	-6.9	-0.0026 mg/L	-0.0026 mg/L	19:44:16
2	Se 196.026†	-9.4	-5.4	0.0036 mg/L	0.0036 mg/L	19:44:16
2	Sn 189.927†	154.7	-34.5	-0.0161 mg/L	-0.0161 mg/L	19:44:16
2	Sr 407.771†	6375.9	94.2	-0.0002 mg/L	-0.0002 mg/L	19:43:50
2	Ti 337.279†	-2045.7	-78.8	0.0006 mg/L	0.0006 mg/L	19:43:55
2	Tl 190.801†	25.2	5.8	0.0259 mg/L	0.0259 mg/L	19:44:16
2	V 292.402†	-1542.1	79.3	0.0011 mg/L	0.0011 mg/L	19:43:55
2	Zn 213.857†	661.2	-10.4	0.0004 mg/L	0.0004 mg/L	19:44:16

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Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3357283.2	0.998 mg/L	0.0022			0.22%
Ag 328.068†	310.4	0.0003 mg/L	0.00037	0.0003 mg/L	0.00037	130.98%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	9.0	0.0038 mg/L	0.00009	0.0038 mg/L	0.00009	2.27%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	4.6	0.0092 mg/L	0.00341	0.0092 mg/L	0.00341	36.96%
QC value within limits for As 188.979 Recovery = Not calculated						
B 182.528†	4.8	0.0163 mg/L	0.00088	0.0163 mg/L	0.00088	5.41%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	-4.0	-0.0004 mg/L	0.00011	-0.0004 mg/L	0.00011	26.26%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-22.1	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	10.53%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.886†	-111.2	-0.0049 mg/L	0.00054	-0.0049 mg/L	0.00054	11.06%
QC value within limits for Ca 315.886 Recovery = Not calculated						
Cd 228.802†	4.0	0.0000 mg/L	0.00023	0.0000 mg/L	0.00023	>999.9%

Co	228.616†	QC value within limits for Cd 228.802	Recovery = Not calculated				
		-7.0	-0.0004 mg/L	0.00007	-0.0004 mg/L	0.00007	17.11%
Cr	267.716†	QC value within limits for Co 228.616	Recovery = Not calculated				
		-39.9	-0.0006 mg/L	0.00044	-0.0006 mg/L	0.00044	72.67%
Cu	324.752†	QC value within limits for Cr 267.716	Recovery = Not calculated				
		95.2	-0.0011 mg/L	0.00033	-0.0011 mg/L	0.00033	30.34%
Fe	234.349†	QC value within limits for Cu 324.752	Recovery = Not calculated				
		-0.2	-0.0039 mg/L	0.00010	-0.0039 mg/L	0.00010	2.49%
Fe	238.204†	QC value within limits for Fe 234.349	Recovery = Not calculated				
		41.7	-0.0050 mg/L	0.00004	-0.0050 mg/L	0.00004	0.84%
K	766.490†	QC value within limits for Fe 238.204	Recovery = Not calculated				
		76.6	0.0460 mg/L	0.01595	0.0460 mg/L	0.01595	34.71%
Li	670.784†	QC value within limits for K 766.490	Recovery = Not calculated				
		28.5	-0.0015 mg/L	0.00047	-0.0015 mg/L	0.00047	31.69%
Mg	279.077†	QC value within limits for Li 670.784	Recovery = Not calculated				
		-21.1	-0.0122 mg/L	0.00300	-0.0122 mg/L	0.00300	24.60%
Mn	257.610†	QC value less than the lower limit for Mg 279.077	Recovery = Not calculated				
		25.1	-0.0025 mg/L	0.00003	-0.0025 mg/L	0.00003	1.19%
Mo	202.031†	QC value within limits for Mn 257.610	Recovery = Not calculated				
		13.6	0.0011 mg/L	0.00004	0.0011 mg/L	0.00004	4.10%
Na	589.592	QC value within limits for Mo 202.031	Recovery = Not calculated				
		440.9	-0.0480 mg/L	0.00031	-0.0480 mg/L	0.00031	0.65%
Ni	231.604†	QC value within limits for Na 589.592	Recovery = Not calculated				
		8.8	0.0006 mg/L	0.00008	0.0006 mg/L	0.00008	14.46%
P	214.914†	QC value within limits for Ni 231.604	Recovery = Not calculated				
		0.2	0.0255 mg/L	0.00002	0.0255 mg/L	0.00002	0.08%
Pb	220.353†	QC value within limits for P 214.914	Recovery = Not calculated				
		-9.9	-0.0028 mg/L	0.00014	-0.0028 mg/L	0.00014	4.84%
Sb	206.836†	QC value within limits for Pb 220.353	Recovery = Not calculated				
		-8.2	-0.0033 mg/L	0.00091	-0.0033 mg/L	0.00091	28.02%
Se	196.026†	QC value within limits for Sb 206.836	Recovery = Not calculated				
		-4.9	0.0042 mg/L	0.00082	0.0042 mg/L	0.00082	19.30%
Sn	189.927†	QC value within limits for Se 196.026	Recovery = Not calculated				
		-30.0	-0.0149 mg/L	0.00168	-0.0149 mg/L	0.00168	11.32%
Sr	407.771†	QC value within limits for Sn 189.927	Recovery = Not calculated				
		73.7	-0.0002 mg/L	0.00000	-0.0002 mg/L	0.00000	0.57%
Ti	337.279†	QC value within limits for Sr 407.771	Recovery = Not calculated				
		-84.3	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	1.68%
Tl	190.801†	QC value within limits for Ti 337.279	Recovery = Not calculated				
		10.5	0.0298 mg/L	0.00551	0.0298 mg/L	0.00551	18.45%
V	292.402†	QC value within limits for Tl 190.801	Recovery = Not calculated				
		43.9	0.0009 mg/L	0.00020	0.0009 mg/L	0.00020	21.44%
Zn	213.857†	QC value within limits for V 292.402	Recovery = Not calculated				
		6.9	0.0006 mg/L	0.00032	0.0006 mg/L	0.00032	52.38%

QC Failed. Continue with analysis.

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Sequence No.: 8	Autosampler Location: 6
Sample ID: CRI1	Date Collected: 6/23/2006 7:45:53 PM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

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Replicate Data: CRI1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	5189.5	4625.2	2.540 mg/L	2.540 mg/L	19:47:28
1	Li 670.784†	1935.6	1764.5	0.0484 mg/L	0.0484 mg/L	19:47:28
1	Na 589.592	20569.0	21382.2	2.496 mg/L	2.496 mg/L	19:47:28
1	Y 371.029	3366107.6	3366107.6	1.00 mg/L		19:47:42
1	Ag 328.068†	4967.9	7518.9	0.0254 mg/L	0.0254 mg/L	19:47:47
1	Al 237.313†	2219.7	2271.5	0.2587 mg/L	0.2587 mg/L	19:47:47
1	As 188.979†	41.9	37.2	0.0538 mg/L	0.0538 mg/L	19:48:07
1	B 182.528†	21.0	23.7	0.0588 mg/L	0.0588 mg/L	19:48:07
1	Ba 233.527†	5938.5	6115.1	0.0506 mg/L	0.0506 mg/L	19:47:47
1	Be 313.107†	26315.6	24098.3	0.0051 mg/L	0.0051 mg/L	19:47:47
1	Ca 315.886†	76742.4	74879.4	0.5099 mg/L	0.5099 mg/L	19:47:47
1	Cd 228.802†	1137.7	1021.4	0.0251 mg/L	0.0251 mg/L	19:48:07
1	Co 228.616†	1801.0	1976.8	0.0514 mg/L	0.0514 mg/L	19:48:07
1	Cr 267.716†	9244.0	7883.2	0.0508 mg/L	0.0508 mg/L	19:47:47

1	Cu 324.752†	15572.9	13640.6	0.0504 mg/L	0.0504 mg/L	19:47:47
1	Fe 234.349†	14649.1	13402.7	0.2518 mg/L	0.2518 mg/L	19:47:47
1	Fe 238.204†	31289.1	30156.1	0.2527 mg/L	0.2527 mg/L	19:47:47
1	Mg 279.077†	13417.4	12867.1	0.5057 mg/L	0.5057 mg/L	19:47:47
1	Mn 257.610†	49506.5	47596.5	0.0498 mg/L	0.0498 mg/L	19:47:47
1	Mo 202.031†	819.9	782.1	0.0516 mg/L	0.0516 mg/L	19:48:07
1	Ni 231.604†	1680.0	1649.4	0.0531 mg/L	0.0531 mg/L	19:48:07
1	P 214.914†	732.6	688.4	0.5160 mg/L	0.5160 mg/L	19:48:07
1	Pb 220.353†	312.1	463.4	0.0508 mg/L	0.0508 mg/L	19:48:07
1	Sb 206.836†	114.7	99.4	0.0474 mg/L	0.0474 mg/L	19:48:07
1	Se 196.026†	70.0	74.0	0.1032 mg/L	0.1032 mg/L	19:48:07
1	Sn 189.927†	370.8	180.8	0.0410 mg/L	0.0410 mg/L	19:48:07
1	Sr 407.771†	122778.2	116404.2	0.0050 mg/L	0.0050 mg/L	19:47:42
1	Ti 337.279†	37702.6	39655.6	0.0507 mg/L	0.0507 mg/L	19:47:47
1	Tl 190.801†	62.1	42.5	0.0564 mg/L	0.0564 mg/L	19:48:07
1	V 292.402†	11130.4	12751.0	0.0521 mg/L	0.0521 mg/L	19:47:47
1	Zn 213.857†	4620.9	3944.3	0.0513 mg/L	0.0513 mg/L	19:48:07
2	K 766.490†	5191.4	4590.8	2.521 mg/L	2.521 mg/L	19:47:34
2	Li 670.784†	1982.7	1797.7	0.0493 mg/L	0.0493 mg/L	19:47:34
2	Na 589.592	20391.1	21204.3	2.475 mg/L	2.475 mg/L	19:47:34
2	Y 371.029	3389831.7	3389831.7	1.01 mg/L	1.01 mg/L	19:48:13
2	Ag 328.068†	4836.2	7353.5	0.0248 mg/L	0.0248 mg/L	19:48:18
2	Al 237.313†	2214.3	2250.6	0.2563 mg/L	0.2563 mg/L	19:48:18
2	As 188.979†	40.9	35.9	0.0520 mg/L	0.0520 mg/L	19:48:39
2	B 182.528†	19.8	22.3	0.0558 mg/L	0.0558 mg/L	19:48:39
2	Ba 233.527†	5951.5	6086.4	0.0504 mg/L	0.0504 mg/L	19:48:18
2	Be 313.107†	26370.3	23968.5	0.0050 mg/L	0.0050 mg/L	19:48:18
2	Ca 315.886†	77161.8	74758.9	0.5090 mg/L	0.5090 mg/L	19:48:18
2	Cd 228.802†	1140.2	1015.9	0.0250 mg/L	0.0250 mg/L	19:48:39
2	Co 228.616†	1788.0	1951.3	0.0507 mg/L	0.0507 mg/L	19:48:39
2	Cr 267.716†	9217.4	7792.2	0.0502 mg/L	0.0502 mg/L	19:48:18
2	Cu 324.752†	15450.1	13409.9	0.0495 mg/L	0.0495 mg/L	19:48:18
2	Fe 234.349†	14777.6	13427.8	0.2523 mg/L	0.2523 mg/L	19:48:18
2	Fe 238.204†	31384.2	30031.6	0.2516 mg/L	0.2516 mg/L	19:48:18
2	Mg 279.077†	13497.1	12852.3	0.5051 mg/L	0.5051 mg/L	19:48:18
2	Mn 257.610†	49684.8	47427.1	0.0497 mg/L	0.0497 mg/L	19:48:18
2	Mo 202.031†	797.0	753.7	0.0498 mg/L	0.0498 mg/L	19:48:39
2	Ni 231.604†	1664.6	1622.4	0.0523 mg/L	0.0523 mg/L	19:48:39
2	P 214.914†	730.1	680.8	0.5106 mg/L	0.5106 mg/L	19:48:39
2	Pb 220.353†	312.5	461.6	0.0506 mg/L	0.0506 mg/L	19:48:39
2	Sb 206.836†	113.1	97.0	0.0463 mg/L	0.0463 mg/L	19:48:39
2	Se 196.026†	70.1	73.6	0.1026 mg/L	0.1026 mg/L	19:48:39
2	Sn 189.927†	360.3	167.8	0.0376 mg/L	0.0376 mg/L	19:48:39
2	Sr 407.771†	123244.4	116008.1	0.0050 mg/L	0.0050 mg/L	19:48:13
2	Ti 337.279†	37675.9	39365.3	0.0503 mg/L	0.0503 mg/L	19:48:18
2	Tl 190.801†	57.9	37.9	0.0526 mg/L	0.0526 mg/L	19:48:39
2	V 292.402†	11090.5	12633.5	0.0516 mg/L	0.0516 mg/L	19:48:18
2	Zn 213.857†	4630.7	3921.8	0.0510 mg/L	0.0510 mg/L	19:48:39

Mean Data: CRI1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3377969.6	1.00 mg/L	0.005			0.50%
Ag 328.068†	7436.2	0.0251 mg/L	0.00041	0.0251 mg/L	0.00041	1.62%
QC value within limits for Ag 328.068 Recovery = 100.54%						
Al 237.313†	2261.0	0.2575 mg/L	0.00168	0.2575 mg/L	0.00168	0.65%
QC value within limits for Al 237.313 Recovery = 103.01%						
As 188.979†	36.6	0.0529 mg/L	0.00124	0.0529 mg/L	0.00124	2.35%
QC value within limits for As 188.979 Recovery = 105.78%						
B 182.528†	23.0	0.0573 mg/L	0.00209	0.0573 mg/L	0.00209	3.65%
QC value within limits for B 182.528 Recovery = 114.56%						
Ba 233.527†	6100.8	0.0505 mg/L	0.00017	0.0505 mg/L	0.00017	0.34%
QC value within limits for Ba 233.527 Recovery = 100.98%						
Be 313.107†	24033.4	0.0051 mg/L	0.00002	0.0051 mg/L	0.00002	0.37%
QC value within limits for Be 313.107 Recovery = 101.03%						
Ca 315.886†	74819.1	0.5095 mg/L	0.00059	0.5095 mg/L	0.00059	0.11%
QC value within limits for Ca 315.886 Recovery = 101.89%						
Cd 228.802†	1018.6	0.0251 mg/L	0.00009	0.0251 mg/L	0.00009	0.36%
QC value within limits for Cd 228.802 Recovery = 100.27%						
Co 228.616†	1964.1	0.0511 mg/L	0.00047	0.0511 mg/L	0.00047	0.92%
QC value within limits for Co 228.616 Recovery = 102.13%						

Cr 267.716†	7837.7	0.0505 mg/L	0.00042	0.0505 mg/L	0.00042	0.83%
QC value within limits for Cr 267.716 Recovery = 100.98%						
Cu 324.752†	13525.3	0.0500 mg/L	0.00062	0.0500 mg/L	0.00062	1.24%
QC value within limits for Cu 324.752 Recovery = 99.96%						
Fe 234.349†	13415.3	0.2520 mg/L	0.00035	0.2520 mg/L	0.00035	0.14%
QC value within limits for Fe 234.349 Recovery = 100.80%						
Fe 238.204†	30093.8	0.2522 mg/L	0.00075	0.2522 mg/L	0.00075	0.30%
QC value within limits for Fe 238.204 Recovery = 100.86%						
K 766.490†	4608.0	2.530 mg/L	0.0133	2.530 mg/L	0.0133	0.53%
QC value within limits for K 766.490 Recovery = 101.22%						
Li 670.784†	1781.1	0.0489 mg/L	0.00067	0.0489 mg/L	0.00067	1.38%
QC value within limits for Li 670.784 Recovery = 97.71%						
Mg 279.077†	12859.7	0.5054 mg/L	0.00042	0.5054 mg/L	0.00042	0.08%
QC value within limits for Mg 279.077 Recovery = 101.08%						
Mn 257.610†	47511.8	0.0498 mg/L	0.00013	0.0498 mg/L	0.00013	0.26%
QC value within limits for Mn 257.610 Recovery = 99.51%						
Mo 202.031†	767.9	0.0507 mg/L	0.00132	0.0507 mg/L	0.00132	2.61%
QC value within limits for Mo 202.031 Recovery = 101.39%						
Na 589.592	21293.3	2.485 mg/L	0.0153	2.485 mg/L	0.0153	0.62%
QC value within limits for Na 589.592 Recovery = 99.42%						
Ni 231.604†	1635.9	0.0527 mg/L	0.00061	0.0527 mg/L	0.00061	1.16%
QC value within limits for Ni 231.604 Recovery = 105.38%						
P 214.914†	684.6	0.5133 mg/L	0.00380	0.5133 mg/L	0.00380	0.74%
QC value within limits for P 214.914 Recovery = 102.66%						
Pb 220.353†	462.5	0.0507 mg/L	0.00014	0.0507 mg/L	0.00014	0.28%
QC value within limits for Pb 220.353 Recovery = 101.33%						
Sb 206.836†	98.2	0.0469 mg/L	0.00082	0.0469 mg/L	0.00082	1.74%
QC value within limits for Sb 206.836 Recovery = 93.74%						
Se 196.026†	73.8	0.1029 mg/L	0.00042	0.1029 mg/L	0.00042	0.41%
QC value within limits for Se 196.026 Recovery = 102.88%						
Sn 189.927†	174.3	0.0393 mg/L	0.00244	0.0393 mg/L	0.00244	6.21%
QC value within limits for Sn 189.927 Recovery = 78.64%						
Sr 407.771†	116206.1	0.0050 mg/L	0.00001	0.0050 mg/L	0.00001	0.25%
QC value within limits for Sr 407.771 Recovery = 100.39%						
Ti 337.279†	39510.5	0.0505 mg/L	0.00026	0.0505 mg/L	0.00026	0.51%
QC value within limits for Ti 337.279 Recovery = 101.06%						
Tl 190.801†	40.2	0.0545 mg/L	0.00267	0.0545 mg/L	0.00267	4.90%
QC value within limits for Tl 190.801 Recovery = 108.94%						
V 292.402†	12692.3	0.0519 mg/L	0.00035	0.0519 mg/L	0.00035	0.68%
QC value within limits for V 292.402 Recovery = 103.76%						
Zn 213.857†	3933.1	0.0511 mg/L	0.00020	0.0511 mg/L	0.00020	0.40%
QC value within limits for Zn 213.857 Recovery = 102.28%						

All analyte(s) passed QC.

Sequence No.: 9	Autosampler Location: 7
Sample ID: CRI2	Date Collected: 6/23/2006 7:50:18 PM
Analyst:	Data Type: Original
Initial Sample Wt:	Initial Sample Vol:
Dilution:	Sample Prep Vol:

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 Replicate Data: CRI2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	2384.1	1827.8	1.006 mg/L	1.006 mg/L	19:51:57
1	Li 670.784†	900.5	732.4	0.0187 mg/L	0.0187 mg/L	19:51:57
1	Na 589.592	7595.7	8408.9	0.9201 mg/L	0.9201 mg/L	19:51:57
1	Y 371.029	3356992.2	3356992.2	0.998 mg/L		19:52:10
1	Ag 328.068†	488.1	3043.0	0.0098 mg/L	0.0098 mg/L	19:52:15
1	Al 237.313†	874.7	929.6	0.1076 mg/L	0.1076 mg/L	19:52:15
1	As 188.979†	18.6	13.9	0.0219 mg/L	0.0219 mg/L	19:52:35
1	B 182.528†	3.9	6.6	0.0205 mg/L	0.0205 mg/L	19:52:35
1	Ba 233.527†	2245.1	2429.8	0.0199 mg/L	0.0199 mg/L	19:52:35
1	Be 313.107†	11752.4	9575.2	0.0021 mg/L	0.0021 mg/L	19:52:15
1	Ca 315.886†	31409.7	29657.6	0.1995 mg/L	0.1995 mg/L	19:52:15
1	Cd 228.802†	511.6	397.1	0.0097 mg/L	0.0097 mg/L	19:52:35
1	Co 228.616†	608.0	786.2	0.0203 mg/L	0.0203 mg/L	19:52:35
1	Cr 267.716†	4463.5	3117.5	0.0199 mg/L	0.0199 mg/L	19:52:15
1	Cu 324.752†	7350.9	5443.2	0.0192 mg/L	0.0192 mg/L	19:52:15
1	Fe 234.349†	6642.2	5418.4	0.0995 mg/L	0.0995 mg/L	19:52:15
1	Fe 238.204†	13156.7	12069.6	0.0979 mg/L	0.0979 mg/L	19:52:15



1	Mg 279.077†	5628.7	5098.1	0.1935 mg/L	0.1935 mg/L	19:52:15
1	Mn 257.610†	20770.2	18932.8	0.0183 mg/L	0.0183 mg/L	19:52:15
1	Mo 202.031†	333.7	297.1	0.0197 mg/L	0.0197 mg/L	19:52:35
1	Ni 231.604†	679.5	651.4	0.0212 mg/L	0.0212 mg/L	19:52:35
1	P 214.914†	311.5	268.4	0.2167 mg/L	0.2167 mg/L	19:52:35
1	Pb 220.353†	10.8	162.4	0.0167 mg/L	0.0167 mg/L	19:52:35
1	Sb 206.836†	44.5	29.4	0.0144 mg/L	0.0144 mg/L	19:52:35
1	Se 196.026†	26.8	30.9	0.0491 mg/L	0.0491 mg/L	19:52:35
1	Sn 189.927†	236.8	47.5	0.0057 mg/L	0.0057 mg/L	19:52:35
1	Sr 407.771†	51981.5	45788.5	0.0018 mg/L	0.0018 mg/L	19:52:10
1	Ti 337.279†	13591.8	15595.2	0.0204 mg/L	0.0204 mg/L	19:52:15
1	Tl 190.801†	32.5	13.0	0.0320 mg/L	0.0320 mg/L	19:52:35
1	V 292.402†	3343.2	4977.3	0.0208 mg/L	0.0208 mg/L	19:52:15
1	Zn 213.857†	2239.3	1570.2	0.0207 mg/L	0.0207 mg/L	19:52:35
2	K 766.490†	2393.8	1848.9	1.018 mg/L	1.018 mg/L	19:52:02
2	Li 670.784†	918.5	754.8	0.0194 mg/L	0.0194 mg/L	19:52:02
2	Na 589.592	7640.5	8453.7	0.9255 mg/L	0.9255 mg/L	19:52:02
2	Y 371.029	3341198.6	3341198.6	0.993 mg/L		19:52:41
2	Ag 328.068†	505.3	3062.6	0.0099 mg/L	0.0099 mg/L	19:52:47
2	Al 237.313†	877.8	936.9	0.1084 mg/L	0.1084 mg/L	19:52:47
2	As 188.979†	19.3	14.8	0.0231 mg/L	0.0231 mg/L	19:53:07
2	B 182.528†	6.7	9.5	0.0268 mg/L	0.0268 mg/L	19:53:07
2	Ba 233.527†	2247.0	2442.4	0.0200 mg/L	0.0200 mg/L	19:53:07
2	Be 313.107†	11733.1	9611.4	0.0021 mg/L	0.0021 mg/L	19:52:47
2	Ca 315.886†	31367.1	29763.4	0.2002 mg/L	0.2002 mg/L	19:52:47
2	Cd 228.802†	533.9	421.9	0.0103 mg/L	0.0103 mg/L	19:53:07
2	Co 228.616†	590.4	771.3	0.0199 mg/L	0.0199 mg/L	19:53:07
2	Cr 267.716†	4387.4	3062.0	0.0195 mg/L	0.0195 mg/L	19:52:47
2	Cu 324.752†	7359.7	5486.9	0.0194 mg/L	0.0194 mg/L	19:52:47
2	Fe 234.349†	6667.9	5475.7	0.1006 mg/L	0.1006 mg/L	19:52:47
2	Fe 238.204†	13158.8	12134.0	0.0985 mg/L	0.0985 mg/L	19:52:47
2	Mg 279.077†	5592.5	5088.3	0.1931 mg/L	0.1931 mg/L	19:52:47
2	Mn 257.610†	20695.4	18955.8	0.0183 mg/L	0.0183 mg/L	19:52:47
2	Mo 202.031†	353.5	318.7	0.0211 mg/L	0.0211 mg/L	19:53:07
2	Ni 231.604†	697.1	672.3	0.0218 mg/L	0.0218 mg/L	19:53:07
2	P 214.914†	303.5	261.9	0.2120 mg/L	0.2120 mg/L	19:53:07
2	Pb 220.353†	13.7	165.4	0.0170 mg/L	0.0170 mg/L	19:53:07
2	Sb 206.836†	51.4	36.6	0.0179 mg/L	0.0179 mg/L	19:53:07
2	Se 196.026†	15.2	19.3	0.0346 mg/L	0.0346 mg/L	19:53:07
2	Sn 189.927†	245.6	57.4	0.0083 mg/L	0.0083 mg/L	19:53:07
2	Sr 407.771†	51665.9	45717.0	0.0018 mg/L	0.0018 mg/L	19:52:41
2	Ti 337.279†	13634.7	15702.8	0.0205 mg/L	0.0205 mg/L	19:52:47
2	Tl 190.801†	31.8	12.5	0.0316 mg/L	0.0316 mg/L	19:53:07
2	V 292.402†	3414.4	5064.8	0.0212 mg/L	0.0212 mg/L	19:52:47
2	Zn 213.857†	2272.0	1613.7	0.0213 mg/L	0.0213 mg/L	19:53:07

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**Mean Data: CRI2**

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3349095.4	0.996 mg/L	0.0033			0.33%
Ag 328.068†	3052.8	0.0098 mg/L	0.00005	0.0098 mg/L	0.00005	0.50%
QC value within limits for Ag 328.068 Recovery = 98.47%						
Al 237.313†	933.3	0.1080 mg/L	0.00058	0.1080 mg/L	0.00058	0.54%
QC value within limits for Al 237.313 Recovery = 107.97%						
As 188.979†	14.3	0.0225 mg/L	0.00082	0.0225 mg/L	0.00082	3.63%
QC value within limits for As 188.979 Recovery = 112.60%						
B 182.528†	8.0	0.0237 mg/L	0.00448	0.0237 mg/L	0.00448	18.90%
QC value within limits for B 182.528 Recovery = 118.41%						
Ba 233.527†	2436.1	0.0199 mg/L	0.00007	0.0199 mg/L	0.00007	0.37%
QC value within limits for Ba 233.527 Recovery = 99.69%						
Be 313.107†	9593.3	0.0021 mg/L	0.00001	0.0021 mg/L	0.00001	0.24%
QC value within limits for Be 313.107 Recovery = 104.48%						
Ca 315.886†	29710.5	0.1998 mg/L	0.00051	0.1998 mg/L	0.00051	0.26%
QC value within limits for Ca 315.886 Recovery = 99.91%						
Cd 228.802†	409.5	0.0100 mg/L	0.00043	0.0100 mg/L	0.00043	4.24%
QC value within limits for Cd 228.802 Recovery = 100.47%						
Co 228.616†	778.7	0.0201 mg/L	0.00028	0.0201 mg/L	0.00028	1.37%
QC value within limits for Co 228.616 Recovery = 100.50%						
Cr 267.716†	3089.8	0.0197 mg/L	0.00026	0.0197 mg/L	0.00026	1.30%
QC value within limits for Cr 267.716 Recovery = 98.47%						
Cu 324.752†	5465.1	0.0193 mg/L	0.00012	0.0193 mg/L	0.00012	0.61%

1	Ni 231.604†	346.7	317.5	0.0105 mg/L	0.0105 mg/L	19:57:02
1	P 214.914†	175.2	131.7	0.1192 mg/L	0.1192 mg/L	19:57:02
1	Pb 220.353†	-71.9	79.5	0.0073 mg/L	0.0073 mg/L	19:57:02
1	Sb 206.836†	32.0	16.9	0.0086 mg/L	0.0086 mg/L	19:57:02
1	Se 196.026†	8.2	12.2	0.0257 mg/L	0.0257 mg/L	19:57:02
1	Sn 189.927†	211.1	21.5	-0.0012 mg/L	-0.0012 mg/L	19:57:02
1	Sr 407.771†	29043.6	22774.1	0.0008 mg/L	0.0008 mg/L	19:56:36
1	Ti 337.279†	5852.1	7833.4	0.0106 mg/L	0.0106 mg/L	19:56:42
1	Tl 190.801†	19.8	0.4	0.0216 mg/L	0.0216 mg/L	19:57:02
1	V 292.402†	778.1	2405.9	0.0104 mg/L	0.0104 mg/L	19:56:42
1	Zn 213.857†	1464.7	792.5	0.0107 mg/L	0.0107 mg/L	19:57:02
2	K 766.490†	1460.7	917.0	0.5067 mg/L	0.5067 mg/L	19:56:29
2	Li 670.784†	459.1	294.6	0.0062 mg/L	0.0062 mg/L	19:56:29
2	Na 589.592	3344.7	4157.9	0.4036 mg/L	0.4036 mg/L	19:56:29
2	Y 371.029	3323936.9	3323936.9	0.988 mg/L		19:57:08
2	Ag 328.068†	-1044.8	1496.4	0.0044 mg/L	0.0044 mg/L	19:57:13
2	Al 237.313†	404.7	462.7	0.0550 mg/L	0.0550 mg/L	19:57:33
2	As 188.979†	16.0	11.5	0.0186 mg/L	0.0186 mg/L	19:57:33
2	B 182.528†	0.1	2.8	0.0119 mg/L	0.0119 mg/L	19:57:33
2	Ba 233.527†	1015.2	1207.4	0.0097 mg/L	0.0097 mg/L	19:57:33
2	Be 313.107†	6895.5	4776.6	0.0011 mg/L	0.0011 mg/L	19:57:13
2	Ca 315.886†	16479.8	14859.8	0.0979 mg/L	0.0979 mg/L	19:57:13
2	Cd 228.802†	323.0	211.2	0.0051 mg/L	0.0051 mg/L	19:57:33
2	Co 228.616†	215.5	394.9	0.0101 mg/L	0.0101 mg/L	19:57:33
2	Cr 267.716†	2797.8	1476.1	0.0092 mg/L	0.0092 mg/L	19:57:13
2	Cu 324.752†	4486.0	2616.9	0.0085 mg/L	0.0085 mg/L	19:57:13
2	Fe 234.349†	3856.8	2665.4	0.0470 mg/L	0.0470 mg/L	19:57:13
2	Fe 238.204†	6941.8	5910.5	0.0452 mg/L	0.0452 mg/L	19:57:13
2	Mg 279.077†	2980.3	2473.7	0.0880 mg/L	0.0880 mg/L	19:57:13
2	Mn 257.610†	11090.8	9343.1	0.0078 mg/L	0.0078 mg/L	19:57:13
2	Mo 202.031†	198.7	163.8	0.0109 mg/L	0.0109 mg/L	19:57:33
2	Ni 231.604†	350.8	325.5	0.0107 mg/L	0.0107 mg/L	19:57:33
2	P 214.914†	175.1	133.4	0.1205 mg/L	0.1205 mg/L	19:57:33
2	Pb 220.353†	-78.5	72.1	0.0065 mg/L	0.0065 mg/L	19:57:33
2	Sb 206.836†	32.0	17.2	0.0088 mg/L	0.0088 mg/L	19:57:33
2	Se 196.026†	7.2	11.3	0.0246 mg/L	0.0246 mg/L	19:57:33
2	Sn 189.927†	194.3	6.8	-0.0051 mg/L	-0.0051 mg/L	19:57:33
2	Sr 407.771†	28514.0	22554.7	0.0008 mg/L	0.0008 mg/L	19:57:08
2	Ti 337.279†	5816.6	7861.3	0.0106 mg/L	0.0106 mg/L	19:57:13
2	Tl 190.801†	27.8	8.6	0.0283 mg/L	0.0283 mg/L	19:57:33
2	V 292.402†	744.9	2380.8	0.0103 mg/L	0.0103 mg/L	19:57:13
2	Zn 213.857†	1468.8	812.6	0.0110 mg/L	0.0110 mg/L	19:57:33

## Mean Data: CRI3

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3342041.9	0.993 mg/L	0.0076			0.77%
Ag 328.068†	1545.6	0.0046 mg/L	0.00024	0.0046 mg/L	0.00024	5.27%
QC value within limits for Ag 328.068		Recovery = 91.80%				
Al 237.313†	460.7	0.0547 mg/L	0.00031	0.0547 mg/L	0.00031	0.57%
QC value within limits for Al 237.313		Recovery = 109.47%				
As 188.979†	9.6	0.0160 mg/L	0.00367	0.0160 mg/L	0.00367	22.93%
QC value greater than the upper limit for As 188.979		Recovery = 160.13%				
B 182.528†	4.6	0.0158 mg/L	0.00557	0.0158 mg/L	0.00557	35.19%
QC value greater than the upper limit for B 182.528		Recovery = 158.25%				
Ba 233.527†	1202.1	0.0096 mg/L	0.00006	0.0096 mg/L	0.00006	0.65%
QC value within limits for Ba 233.527		Recovery = 96.48%				
Be 313.107†	4812.2	0.0011 mg/L	0.00001	0.0011 mg/L	0.00001	0.95%
QC value within limits for Be 313.107		Recovery = 110.87%				
Ca 315.886†	14803.9	0.0975 mg/L	0.00054	0.0975 mg/L	0.00054	0.55%
QC value within limits for Ca 315.886		Recovery = 97.51%				
Cd 228.802†	205.1	0.0050 mg/L	0.00020	0.0050 mg/L	0.00020	3.92%
QC value within limits for Cd 228.802		Recovery = 99.76%				
Co 228.616†	391.0	0.0100 mg/L	0.00014	0.0100 mg/L	0.00014	1.44%
QC value within limits for Co 228.616		Recovery = 99.73%				
Cr 267.716†	1494.5	0.0093 mg/L	0.00017	0.0093 mg/L	0.00017	1.81%
QC value within limits for Cr 267.716		Recovery = 93.48%				
Cu 324.752†	2652.6	0.0086 mg/L	0.00019	0.0086 mg/L	0.00019	2.22%
QC value within limits for Cu 324.752		Recovery = 86.40%				
Fe 234.349†	2664.1	0.0470 mg/L	0.00004	0.0470 mg/L	0.00004	0.08%
QC value within limits for Fe 234.349		Recovery = 93.90%				

Fe 238.204†	5908.7	0.0452 mg/L	0.00002	0.0452 mg/L	0.00002	0.05%
QC value within limits for Fe 238.204 Recovery = 90.42%						
K 766.490†	904.4	0.4998 mg/L	0.00976	0.4998 mg/L	0.00976	1.95%
QC value within limits for K 766.490 Recovery = 99.96%						
Li 670.784†	315.5	0.0068 mg/L	0.00085	0.0068 mg/L	0.00085	12.59%
QC value less than the lower limit for Li 670.784 Recovery = 67.53%						
Mg 279.077†	2470.1	0.0879 mg/L	0.00020	0.0879 mg/L	0.00020	0.23%
QC value within limits for Mg 279.077 Recovery = 87.90%						
Mn 257.610†	9352.4	0.0078 mg/L	0.00001	0.0078 mg/L	0.00001	0.19%
QC value within limits for Mn 257.610 Recovery = 77.69%						
Mo 202.031†	153.5	0.0103 mg/L	0.00096	0.0103 mg/L	0.00096	9.33%
QC value within limits for Mo 202.031 Recovery = 102.67%						
Na 589.592	4090.1	0.3954 mg/L	0.01165	0.3954 mg/L	0.01165	2.95%
QC value within limits for Na 589.592 Recovery = 79.08%						
Ni 231.604†	321.5	0.0106 mg/L	0.00018	0.0106 mg/L	0.00018	1.72%
QC value within limits for Ni 231.604 Recovery = 105.88%						
P 214.914†	132.5	0.1199 mg/L	0.00089	0.1199 mg/L	0.00089	0.74%
QC value within limits for P 214.914 Recovery = 119.85%						
Pb 220.353†	75.8	0.0069 mg/L	0.00059	0.0069 mg/L	0.00059	8.63%
QC value less than the lower limit for Pb 220.353 Recovery = 68.75%						
Sb 206.836†	17.0	0.0087 mg/L	0.00011	0.0087 mg/L	0.00011	1.28%
QC value within limits for Sb 206.836 Recovery = 86.97%						
Se 196.026†	11.8	0.0252 mg/L	0.00080	0.0252 mg/L	0.00080	3.20%
QC value within limits for Se 196.026 Recovery = 125.77%						
Sn 189.927†	14.2	-0.0032 mg/L	0.00275	-0.0032 mg/L	0.00275	87.03%
QC value less than the lower limit for Sn 189.927 Recovery = -31.61%						
Sr 407.771†	22664.4	0.0008 mg/L	0.00001	0.0008 mg/L	0.00001	0.89%
QC value within limits for Sr 407.771 Recovery = 79.06%						
Ti 337.279†	7847.4	0.0106 mg/L	0.00002	0.0106 mg/L	0.00002	0.23%
QC value within limits for Ti 337.279 Recovery = 105.89%						
Tl 190.801†	4.5	0.0249 mg/L	0.00478	0.0249 mg/L	0.00478	19.15%
QC value greater than the upper limit for Tl 190.801 Recovery = 249.45%						
V 292.402†	2393.4	0.0104 mg/L	0.00005	0.0104 mg/L	0.00005	0.52%
QC value within limits for V 292.402 Recovery = 103.86%						
Zn 213.857†	802.6	0.0108 mg/L	0.00018	0.0108 mg/L	0.00018	1.69%
QC value within limits for Zn 213.857 Recovery = 108.47%						
QC Failed. Continue with analysis.						

Sequence No.: 11

Sample ID: ICSA

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 160

Date Collected: 6/23/2006 7:59:15 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	594.7	96.8	0.0570 mg/L	0.0570 mg/L	0.0570 mg/L	20:00:49
1	Li 670.784†	169.9	18.0	-0.0018 mg/L	-0.0018 mg/L	-0.0018 mg/L	20:00:49
1	Na 589.592	-199.5	613.7	-0.0270 mg/L	-0.0270 mg/L	-0.0270 mg/L	20:00:49
1	Y 371.029	3039914.8	3039914.8	0.904 mg/L	0.904 mg/L	0.904 mg/L	20:01:16
1	Ag 328.068†	-2964.4	-726.8	0.0004 mg/L	0.0004 mg/L	0.0004 mg/L	20:01:21
1	Al 237.313†	2048022.8	2266554.3	255.8 mg/L	255.8 mg/L	255.8 mg/L	20:01:16
1	As 188.979†	14.5	11.4	0.0185 mg/L	0.0185 mg/L	0.0185 mg/L	20:01:41
1	B 182.528†	18.0	22.6	0.0564 mg/L	0.0564 mg/L	0.0564 mg/L	20:01:41
1	Ba 233.527†	74.4	262.3	0.0018 mg/L	0.0018 mg/L	0.0018 mg/L	20:01:41
1	Be 313.107†	-101.0	-2314.2	0.0002 mg/L	0.0002 mg/L	0.0002 mg/L	20:01:21
1	Ca 315.886†	32452221.5	35912331.5	246.4 mg/L	246.4 mg/L	246.4 mg/L	20:01:08
1	Cd 228.802†	104.7	0.1	0.0005 mg/L	0.0005 mg/L	0.0005 mg/L	20:01:41
1	Co 228.616†	-147.0	14.2	0.0001 mg/L	0.0001 mg/L	0.0001 mg/L	20:01:41
1	Cr 267.716†	794.4	-476.4	0.0021 mg/L	0.0021 mg/L	0.0021 mg/L	20:01:21
1	Cu 324.752†	7.6	-1915.0	0.0079 mg/L	0.0079 mg/L	0.0079 mg/L	20:01:21
1	Fe 234.349†	4369643.2	4834548.8	92.41 mg/L	92.41 mg/L	92.41 mg/L	20:01:16
1	Fe 238.204†	9310848.2	10302993.1	88.13 mg/L	88.13 mg/L	88.13 mg/L	20:01:08
1	Mg 279.077†	5378677.4	5951919.8	238.9 mg/L	238.9 mg/L	238.9 mg/L	20:01:16
1	Mn 257.610†	6542.5	5358.3	0.0034 mg/L	0.0034 mg/L	0.0034 mg/L	20:01:21
1	Mo 202.031†	239.0	227.2	0.0151 mg/L	0.0151 mg/L	0.0151 mg/L	20:01:41
1	Ni 231.604†	62.6	39.7	0.0016 mg/L	0.0016 mg/L	0.0016 mg/L	20:01:41
1	P 214.914†	-92.8	-146.4	-0.0790 mg/L	-0.0790 mg/L	-0.0790 mg/L	20:01:41
1	Pb 220.353†	-572.0	-481.5	-0.0094 mg/L	-0.0094 mg/L	-0.0094 mg/L	20:01:41

1	Sb 206.836†	0.2	-15.0	-0.0065 mg/L	-0.0065 mg/L	20:01:41
1	Se 196.026†	16.8	22.7	0.0388 mg/L	0.0388 mg/L	20:01:41
1	Sn 189.927†	40.5	-145.0	-0.0416 mg/L	-0.0416 mg/L	20:01:41
1	Sr 407.771†	23611.1	19825.2	0.0007 mg/L	0.0007 mg/L	20:01:21
1	Ti 337.279†	2035.5	4226.8	0.0060 mg/L	0.0060 mg/L	20:01:21
1	Tl 190.801†	60.5	47.4	0.0601 mg/L	0.0601 mg/L	20:01:41
1	V 292.402†	1559.0	3352.2	0.0023 mg/L	0.0023 mg/L	20:01:21
1	Zn 213.857†	2335.3	1910.5	0.0169 mg/L	0.0169 mg/L	20:01:41
2	K 766.490†	571.7	71.0	0.0429 mg/L	0.0429 mg/L	20:00:54
2	Li 670.784†	202.4	53.9	-0.0008 mg/L	-0.0008 mg/L	20:00:54
2	Na 589.592	-136.2	677.0	-0.0193 mg/L	-0.0193 mg/L	20:00:54
2	Y 371.029	3041273.4	3041273.4	0.904 mg/L	0.904 mg/L	20:02:00
2	Ag 328.068†	-2960.9	-721.4	0.0004 mg/L	0.0004 mg/L	20:02:05
2	Al 237.313†	2047637.5	2265115.5	255.7 mg/L	255.7 mg/L	20:02:00
2	As 188.979†	11.6	8.1	0.0140 mg/L	0.0140 mg/L	20:02:25
2	B 182.528†	13.6	17.7	0.0454 mg/L	0.0454 mg/L	20:02:25
2	Ba 233.527†	67.0	254.1	0.0017 mg/L	0.0017 mg/L	20:02:25
2	Be 313.107†	-277.1	-2509.0	0.0001 mg/L	0.0001 mg/L	20:02:05
2	Ca 315.886†	32554608.6	36009546.5	247.0 mg/L	247.0 mg/L	20:01:53
2	Cd 228.802†	87.2	-19.2	0.0001 mg/L	0.0001 mg/L	20:02:25
2	Co 228.616†	-144.3	17.2	0.0002 mg/L	0.0002 mg/L	20:02:25
2	Cr 267.716†	742.0	-534.8	0.0017 mg/L	0.0017 mg/L	20:02:05
2	Cu 324.752†	27.3	-1893.2	0.0080 mg/L	0.0080 mg/L	20:02:05
2	Fe 234.349†	4372199.6	4835216.3	92.43 mg/L	92.43 mg/L	20:02:00
2	Fe 238.204†	9318987.0	10307392.9	88.17 mg/L	88.17 mg/L	20:01:53
2	Mg 279.077†	5376730.7	5947107.3	238.7 mg/L	238.7 mg/L	20:02:00
2	Mn 257.610†	6589.4	5407.0	0.0034 mg/L	0.0034 mg/L	20:02:05
2	Mo 202.031†	233.6	221.1	0.0147 mg/L	0.0147 mg/L	20:02:25
2	Ni 231.604†	46.4	21.7	0.0010 mg/L	0.0010 mg/L	20:02:25
2	P 214.914†	-90.3	-143.6	-0.0770 mg/L	-0.0770 mg/L	20:02:25
2	Pb 220.353†	-592.9	-504.3	-0.0121 mg/L	-0.0121 mg/L	20:02:25
2	Sb 206.836†	14.0	0.3	0.0009 mg/L	0.0009 mg/L	20:02:25
2	Se 196.026†	5.5	10.1	0.0230 mg/L	0.0230 mg/L	20:02:25
2	Sn 189.927†	28.9	-157.8	-0.0450 mg/L	-0.0450 mg/L	20:02:25
2	Sr 407.771†	23889.2	20121.2	0.0007 mg/L	0.0007 mg/L	20:02:05
2	Ti 337.279†	1994.4	4180.4	0.0060 mg/L	0.0060 mg/L	20:02:05
2	Tl 190.801†	66.8	54.4	0.0658 mg/L	0.0658 mg/L	20:02:25
2	V 292.402†	1469.1	3251.9	0.0019 mg/L	0.0019 mg/L	20:02:05
2	Zn 213.857†	2341.0	1915.7	0.0170 mg/L	0.0170 mg/L	20:02:25

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Mean Data: ICSCA

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3040594.1	0.904 mg/L	0.0003			0.03%
Ag 328.068†	-724.1	0.0004 mg/L	0.00001	0.0004 mg/L	0.00001	3.45%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	2265834.9	255.8 mg/L	0.12	255.8 mg/L	0.12	0.04%
QC value within limits for Al 237.313 Recovery = 102.30%						
As 188.979†	9.7	0.0162 mg/L	0.00316	0.0162 mg/L	0.00316	19.43%
QC value within limits for As 188.979 Recovery = Not calculated						
B 182.528†	20.2	0.0509 mg/L	0.00775	0.0509 mg/L	0.00775	15.23%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	258.2	0.0018 mg/L	0.00005	0.0018 mg/L	0.00005	2.72%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-2411.6	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	16.80%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.886†	35960939.0	246.7 mg/L	0.47	246.7 mg/L	0.47	0.19%
QC value within limits for Ca 315.886 Recovery = 98.68%						
Cd 228.802†	-9.5	0.0003 mg/L	0.00032	0.0003 mg/L	0.00032	111.88%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	15.7	0.0002 mg/L	0.00006	0.0002 mg/L	0.00006	35.19%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-505.6	0.0019 mg/L	0.00027	0.0019 mg/L	0.00027	14.03%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-1904.1	0.0080 mg/L	0.00006	0.0080 mg/L	0.00006	0.76%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	4834882.6	92.42 mg/L	0.009	92.42 mg/L	0.009	0.01%
QC value within limits for Fe 234.349 Recovery = 92.42%						
Fe 238.204†	10305193.0	88.15 mg/L	0.027	88.15 mg/L	0.027	0.03%
QC value within limits for Fe 238.204 Recovery = 88.15%						
K 766.490†	83.9	0.0499 mg/L	0.00998	0.0499 mg/L	0.00998	19.98%

QC value within limits for K 766.490	Recovery = Not calculated					
Li 670.784†	35.9	-0.0013 mg/L	0.00073	-0.0013 mg/L	0.00073	56.87%
QC value within limits for Li 670.784	Recovery = Not calculated					
Mg 279.077†	5949513.5	238.8 mg/L	0.14	238.8 mg/L	0.14	0.06%
QC value within limits for Mg 279.077	Recovery = 95.54%					
Mn 257.610†	5382.7	0.0034 mg/L	0.00004	0.0034 mg/L	0.00004	1.11%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	224.2	0.0149 mg/L	0.00029	0.0149 mg/L	0.00029	1.93%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592	645.4	-0.0231 mg/L	0.00544	-0.0231 mg/L	0.00544	23.52%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	30.7	0.0013 mg/L	0.00041	0.0013 mg/L	0.00041	31.65%
QC value within limits for Ni 231.604	Recovery = Not calculated					
P 214.914†	-145.0	-0.0780 mg/L	0.00143	-0.0780 mg/L	0.00143	1.83%
QC value within limits for P 214.914	Recovery = Not calculated					
Pb 220.353†	-492.9	-0.0108 mg/L	0.00185	-0.0108 mg/L	0.00185	17.19%
QC value less than the lower limit for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	-7.3	-0.0028 mg/L	0.00521	-0.0028 mg/L	0.00521	188.08%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	16.4	0.0309 mg/L	0.01113	0.0309 mg/L	0.01113	36.03%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	-151.4	-0.0433 mg/L	0.00241	-0.0433 mg/L	0.00241	5.56%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Sr 407.771†	19973.2	0.0007 mg/L	0.00001	0.0007 mg/L	0.00001	1.41%
QC value within limits for Sr 407.771	Recovery = Not calculated					
Ti 337.279†	4203.6	0.0060 mg/L	0.00004	0.0060 mg/L	0.00004	0.69%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 190.801†	50.9	0.0630 mg/L	0.00403	0.0630 mg/L	0.00403	6.40%
QC value greater than the upper limit for Tl 190.801	Recovery = Not calculated					
V 292.402†	3302.0	0.0021 mg/L	0.00029	0.0021 mg/L	0.00029	13.79%
QC value within limits for V 292.402	Recovery = Not calculated					
Zn 213.857†	1913.1	0.0170 mg/L	0.00005	0.0170 mg/L	0.00005	0.29%
QC value within limits for Zn 213.857	Recovery = Not calculated					
QC Failed. Continue with analysis.						

Sequence No.: 12

Autosampler Location: 159

Sample ID: ICSAB

Date Collected: 6/23/2006 8:04:04 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	651.5	160.7	0.0920 mg/L	0.0920 mg/L	20:05:39
1	Li 670.784†	175.5	24.5	-0.0016 mg/L	-0.0016 mg/L	20:05:39
1	Na 589.592	-218.9	594.3	-0.0293 mg/L	-0.0293 mg/L	20:05:39
1	Y 371.029	3035505.1	3035505.1	0.902 mg/L		20:06:07
1	Ag 328.068†	128305.6	144753.0	0.5069 mg/L	0.5069 mg/L	20:06:12
1	Al 237.313†	2042742.4	2263994.7	255.6 mg/L	255.6 mg/L	20:06:07
1	As 188.979†	13.5	10.3	0.0167 mg/L	0.0167 mg/L	20:06:32
1	B 182.528†	15.8	20.3	0.0511 mg/L	0.0511 mg/L	20:06:32
1	Ba 233.527†	25378.1	28306.1	0.2355 mg/L	0.2355 mg/L	20:06:12
1	Be 313.107†	1066379.9	1179650.8	0.2449 mg/L	0.2449 mg/L	20:06:07
1	Ca 315.886†	32689740.8	36227742.9	248.5 mg/L	248.5 mg/L	20:05:59
1	Cd 228.802†	16481.9	18151.0	0.4495 mg/L	0.4495 mg/L	20:06:12
1	Co 228.616†	7198.8	8155.2	0.2132 mg/L	0.2132 mg/L	20:06:32
1	Cr 267.716†	33119.4	35350.2	0.2345 mg/L	0.2345 mg/L	20:06:12
1	Cu 324.752†	55723.1	59833.6	0.2424 mg/L	0.2424 mg/L	20:06:12
1	Fe 234.349†	4366753.6	4838371.2	92.48 mg/L	92.48 mg/L	20:06:07
1	Fe 238.204†	9370114.7	10383646.0	88.82 mg/L	88.82 mg/L	20:05:59
1	Mg 279.077†	5365293.1	5945733.3	238.7 mg/L	238.7 mg/L	20:06:07
1	Mn 257.610†	196333.5	215711.4	0.2348 mg/L	0.2348 mg/L	20:06:12
1	Mo 202.031†	233.8	221.8	0.0148 mg/L	0.0148 mg/L	20:06:32
1	Ni 231.604†	11990.9	13259.7	0.4247 mg/L	0.4247 mg/L	20:06:12
1	P 214.914†	-43.1	-91.5	-0.0398 mg/L	-0.0398 mg/L	20:06:32
1	Pb 220.353†	3067.2	3550.9	0.4459 mg/L	0.4459 mg/L	20:06:32
1	Sb 206.836†	9.6	-4.5	-0.0052 mg/L	-0.0052 mg/L	20:06:32
1	Se 196.026†	11.6	16.9	0.0316 mg/L	0.0316 mg/L	20:06:32
1	Sn 189.927†	29.4	-157.3	-0.0449 mg/L	-0.0449 mg/L	20:06:32

1	Sr 407.771†	22642.9	18790.2	0.0006 mg/L	0.0006 mg/L	20:06:12
1	Ti 337.279†	2037.5	4232.3	0.0060 mg/L	0.0060 mg/L	20:06:12
1	Tl 190.801†	60.8	47.9	0.0622 mg/L	0.0622 mg/L	20:06:32
1	V 292.402†	55002.6	62585.5	0.2374 mg/L	0.2374 mg/L	20:06:12
1	Zn 213.857†	34369.1	37416.9	0.4739 mg/L	0.4739 mg/L	20:06:12
2	K 766.490†	643.0	146.9	0.0845 mg/L	0.0845 mg/L	20:05:45
2	Li 670.784†	202.8	53.4	-0.0008 mg/L	-0.0008 mg/L	20:05:45
2	Na 589.592	-118.2	695.0	-0.0171 mg/L	-0.0171 mg/L	20:05:45
2	Y 371.029	3053677.8	3053677.8	0.908 mg/L		20:06:51
2	Ag 328.068†	130034.9	145811.9	0.5106 mg/L	0.5106 mg/L	20:06:57
2	Al 237.313†	2055387.4	2264452.6	255.6 mg/L	255.6 mg/L	20:06:51
2	As 188.979†	5.3	1.2	0.0042 mg/L	0.0042 mg/L	20:07:17
2	B 182.528†	11.6	15.5	0.0404 mg/L	0.0404 mg/L	20:07:17
2	Ba 233.527†	25755.4	28554.4	0.2376 mg/L	0.2376 mg/L	20:06:57
2	Be 313.107†	1071949.4	1178753.3	0.2447 mg/L	0.2447 mg/L	20:06:51
2	Ca 315.886†	32586659.7	35898574.2	246.3 mg/L	246.3 mg/L	20:06:44
2	Cd 228.802†	16704.9	18287.9	0.4530 mg/L	0.4530 mg/L	20:06:57
2	Co 228.616†	7192.1	8100.3	0.2117 mg/L	0.2117 mg/L	20:07:17
2	Cr 267.716†	33587.3	35647.2	0.2364 mg/L	0.2364 mg/L	20:06:57
2	Cu 324.752†	56766.8	60616.0	0.2453 mg/L	0.2453 mg/L	20:06:57
2	Fe 234.349†	4382580.7	4827006.8	92.26 mg/L	92.26 mg/L	20:06:51
2	Fe 238.204†	9324230.4	10271295.0	87.86 mg/L	87.86 mg/L	20:06:44
2	Mg 279.077†	5401797.1	5950562.6	238.9 mg/L	238.9 mg/L	20:06:51
2	Mn 257.610†	199042.1	217400.5	0.2367 mg/L	0.2367 mg/L	20:06:57
2	Mo 202.031†	225.0	210.6	0.0140 mg/L	0.0140 mg/L	20:07:17
2	Ni 231.604†	12350.8	13577.2	0.4348 mg/L	0.4348 mg/L	20:06:57
2	P 214.914†	-47.8	-96.4	-0.0433 mg/L	-0.0433 mg/L	20:07:17
2	Pb 220.353†	3037.1	3497.4	0.4399 mg/L	0.4399 mg/L	20:07:17
2	Sb 206.836†	9.6	-4.6	-0.0052 mg/L	-0.0052 mg/L	20:07:17
2	Se 196.026†	6.0	10.7	0.0237 mg/L	0.0237 mg/L	20:07:17
2	Sn 189.927†	31.4	-155.2	-0.0444 mg/L	-0.0444 mg/L	20:07:17
2	Sr 407.771†	23161.9	19212.6	0.0006 mg/L	0.0006 mg/L	20:06:57
2	Ti 337.279†	1932.8	4103.6	0.0059 mg/L	0.0059 mg/L	20:06:57
2	Tl 190.801†	67.2	54.6	0.0677 mg/L	0.0677 mg/L	20:07:17
2	V 292.402†	55778.1	63077.1	0.2394 mg/L	0.2394 mg/L	20:06:57
2	Zn 213.857†	34941.1	37820.3	0.4791 mg/L	0.4791 mg/L	20:06:57

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Mean Data: ICSAB

Analyte	Mean Corrected		Calib		Sample		RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	
Y 371.029	3044591.5	0.905	mg/L	0.0038			0.42%
Ag 328.068†	145282.5	0.5087	mg/L	0.00260	0.5087	mg/L	0.51%
QC value within limits for Ag 328.068 Recovery = 101.75%							
Al 237.313†	2264223.7	255.6	mg/L	0.04	255.6	mg/L	0.01%
QC value within limits for Al 237.313 Recovery = 102.23%							
As 188.979†	5.7	0.0105	mg/L	0.00882	0.0105	mg/L	84.30%
QC value within limits for As 188.979 Recovery = Not calculated							
B 182.528†	17.9	0.0458	mg/L	0.00761	0.0458	mg/L	16.63%
QC value within limits for B 182.528 Recovery = Not calculated							
Ba 233.527†	28430.2	0.2365	mg/L	0.00146	0.2365	mg/L	0.62%
QC value within limits for Ba 233.527 Recovery = 94.62%							
Be 313.107†	1179202.1	0.2448	mg/L	0.00013	0.2448	mg/L	0.05%
QC value within limits for Be 313.107 Recovery = 97.91%							
Ca 315.886†	36063158.5	247.4	mg/L	1.60	247.4	mg/L	0.65%
QC value within limits for Ca 315.886 Recovery = 98.97%							
Cd 228.802†	18219.4	0.4513	mg/L	0.00243	0.4513	mg/L	0.54%
QC value within limits for Cd 228.802 Recovery = 90.25%							
Co 228.616†	8127.7	0.2125	mg/L	0.00102	0.2125	mg/L	0.48%
QC value within limits for Co 228.616 Recovery = 84.98%							
Cr 267.716†	35498.7	0.2354	mg/L	0.00135	0.2354	mg/L	0.57%
QC value within limits for Cr 267.716 Recovery = 94.16%							
Cu 324.752†	60224.8	0.2438	mg/L	0.00207	0.2438	mg/L	0.85%
QC value within limits for Cu 324.752 Recovery = 97.53%							
Fe 234.349†	4832689.0	92.37	mg/L	0.154	92.37	mg/L	0.17%
QC value within limits for Fe 234.349 Recovery = 92.37%							
Fe 238.204†	10327470.5	88.34	mg/L	0.680	88.34	mg/L	0.77%
QC value within limits for Fe 238.204 Recovery = 88.34%							
K 766.490†	153.8	0.0883	mg/L	0.00532	0.0883	mg/L	6.02%
QC value within limits for K 766.490 Recovery = Not calculated							
Li 670.784†	39.0	-0.0012	mg/L	0.00059	-0.0012	mg/L	49.23%
QC value within limits for Li 670.784 Recovery = Not calculated							

Mg 279.077†	5948148.0	238.8 mg/L	0.14	238.8 mg/L	0.14	0.06%
QC value within limits for Mg 279.077 Recovery = 95.52%						
Mn 257.610†	216556.0	0.2358 mg/L	0.00131	0.2358 mg/L	0.00131	0.56%
QC value within limits for Mn 257.610 Recovery = 94.30%						
Mo 202.031†	216.2	0.0144 mg/L	0.00052	0.0144 mg/L	0.00052	3.63%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	644.7	-0.0232 mg/L	0.00865	-0.0232 mg/L	0.00865	37.26%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	13418.5	0.4298 mg/L	0.00718	0.4298 mg/L	0.00718	1.67%
QC value within limits for Ni 231.604 Recovery = 85.95%						
P 214.914†	-94.0	-0.0416 mg/L	0.00249	-0.0416 mg/L	0.00249	5.99%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	3524.1	0.4429 mg/L	0.00426	0.4429 mg/L	0.00426	0.96%
QC value within limits for Pb 220.353 Recovery = 88.58%						
Sb 206.836†	-4.6	-0.0052 mg/L	0.00006	-0.0052 mg/L	0.00006	1.11%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	13.8	0.0277 mg/L	0.00554	0.0277 mg/L	0.00554	20.04%
QC value greater than the upper limit for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-156.3	-0.0446 mg/L	0.00038	-0.0446 mg/L	0.00038	0.85%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	19001.4	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	2.16%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	4168.0	0.0059 mg/L	0.00011	0.0059 mg/L	0.00011	1.93%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	51.2	0.0649 mg/L	0.00391	0.0649 mg/L	0.00391	6.02%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated						
V 292.402†	62831.3	0.2384 mg/L	0.00139	0.2384 mg/L	0.00139	0.58%
QC value within limits for V 292.402 Recovery = 95.37%						
Zn 213.857†	37618.6	0.4765 mg/L	0.00366	0.4765 mg/L	0.00366	0.77%
QC value within limits for Zn 213.857 Recovery = 95.30%						
QC Failed. Continue with analysis.						

Sequence No.: 13

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/23/2006 8:08:56 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	44964.5	44761.2	24.55 mg/L	24.55 mg/L	20:10:33
1	Li 670.784†	17505.5	17474.9	0.4997 mg/L	0.4997 mg/L	20:10:33
1	Na 589.592	204074.9	204888.1	24.79 mg/L	24.79 mg/L	20:10:33
1	Y 371.029	3337627.3	3337627.3	0.992 mg/L		20:10:48
1	Ag 328.068†	68777.1	71878.6	0.2499 mg/L	0.2499 mg/L	20:10:53
1	Al 237.313†	21735.4	21961.5	2.477 mg/L	2.477 mg/L	20:10:53
1	As 188.979†	361.8	360.0	0.4947 mg/L	0.4947 mg/L	20:11:13
1	B 182.528†	209.1	213.5	0.4854 mg/L	0.4854 mg/L	20:11:13
1	Ba 233.527†	59179.2	59830.5	0.4985 mg/L	0.4985 mg/L	20:10:53
1	Be 313.107†	239724.5	239431.0	0.0492 mg/L	0.0492 mg/L	20:10:53
1	Ca 315.886†	727618.1	731592.7	5.018 mg/L	5.018 mg/L	20:10:48
1	Cd 228.802†	10080.0	10044.6	0.2476 mg/L	0.2476 mg/L	20:11:13
1	Co 228.616†	18615.2	18940.3	0.4945 mg/L	0.4945 mg/L	20:10:53
1	Cr 267.716†	77711.7	76974.9	0.4989 mg/L	0.4989 mg/L	20:10:53
1	Cu 324.752†	132943.5	132078.7	0.5007 mg/L	0.5007 mg/L	20:10:53
1	Fe 234.349†	131333.4	131141.2	2.497 mg/L	2.497 mg/L	20:10:53
1	Fe 238.204†	291794.8	293003.1	2.502 mg/L	2.502 mg/L	20:10:53
1	Mg 279.077†	124542.2	124991.2	5.012 mg/L	5.012 mg/L	20:10:53
1	Mn 257.610†	456784.1	458539.5	0.5020 mg/L	0.5020 mg/L	20:10:48
1	Mo 202.031†	7479.4	7501.7	0.4938 mg/L	0.4938 mg/L	20:11:13
1	Ni 231.604†	15713.9	15809.4	0.5067 mg/L	0.5067 mg/L	20:10:53
1	P 214.914†	6854.6	6865.4	4.918 mg/L	4.918 mg/L	20:11:13
1	Pb 220.353†	4225.2	4410.4	0.4977 mg/L	0.4977 mg/L	20:11:13
1	Sb 206.836†	1030.7	1023.7	0.4825 mg/L	0.4825 mg/L	20:11:13
1	Se 196.026†	777.0	787.2	0.9970 mg/L	0.9970 mg/L	20:11:13
1	Sn 189.927†	2032.8	1859.1	0.4863 mg/L	0.4863 mg/L	20:11:13
1	Sr 407.771†	1113410.7	1115972.5	0.0502 mg/L	0.0502 mg/L	20:10:48
1	Ti 337.279†	386562.3	391614.9	0.4947 mg/L	0.4947 mg/L	20:10:48
1	Tl 190.801†	550.3	535.2	0.4625 mg/L	0.4625 mg/L	20:11:13

1	V 292.402†	122593.3	125196.5	0.5052 mg/L	0.5052 mg/L	20:10:53
1	Zn 213.857†	39015.3	38652.0	0.4981 mg/L	0.4981 mg/L	20:10:53
2	K 766.490†	45009.7	45019.1	24.69 mg/L	24.69 mg/L	20:10:38
2	Li 670.784†	17499.2	17551.1	0.5019 mg/L	0.5019 mg/L	20:10:38
2	Na 589.592	204032.3	204845.5	24.79 mg/L	24.79 mg/L	20:10:38
2	Y 371.029	3322076.6	3322076.6	0.987 mg/L		20:11:20
2	Ag 328.068†	69090.6	72520.6	0.2521 mg/L	0.2521 mg/L	20:11:25
2	Al 237.313†	21716.9	22045.4	2.486 mg/L	2.486 mg/L	20:11:25
2	As 188.979†	354.3	354.0	0.4865 mg/L	0.4865 mg/L	20:11:46
2	B 182.528†	210.6	216.0	0.4910 mg/L	0.4910 mg/L	20:11:46
2	Ba 233.527†	59183.5	60114.0	0.5008 mg/L	0.5008 mg/L	20:11:25
2	Be 313.107†	240160.1	241003.3	0.0496 mg/L	0.0496 mg/L	20:11:25
2	Ca 315.886†	726120.1	733508.9	5.031 mg/L	5.031 mg/L	20:11:20
2	Cd 228.802†	10080.9	10093.1	0.2488 mg/L	0.2488 mg/L	20:11:46
2	Co 228.616†	18640.4	19053.6	0.4975 mg/L	0.4975 mg/L	20:11:25
2	Cr 267.716†	77704.2	77334.0	0.5013 mg/L	0.5013 mg/L	20:11:25
2	Cu 324.752†	133304.3	133071.3	0.5045 mg/L	0.5045 mg/L	20:11:25
2	Fe 234.349†	131184.0	131609.5	2.506 mg/L	2.506 mg/L	20:11:25
2	Fe 238.204†	291995.9	294583.5	2.515 mg/L	2.515 mg/L	20:11:25
2	Mg 279.077†	124787.0	125826.8	5.045 mg/L	5.045 mg/L	20:11:25
2	Mn 257.610†	455532.4	459427.2	0.5030 mg/L	0.5030 mg/L	20:11:20
2	Mo 202.031†	7493.2	7550.9	0.4971 mg/L	0.4971 mg/L	20:11:46
2	Ni 231.604†	15602.3	15770.5	0.5054 mg/L	0.5054 mg/L	20:11:25
2	P 214.914†	6841.3	6884.3	4.932 mg/L	4.932 mg/L	20:11:46
2	Pb 220.353†	4219.5	4424.5	0.4993 mg/L	0.4993 mg/L	20:11:46
2	Sb 206.836†	1025.3	1023.1	0.4821 mg/L	0.4821 mg/L	20:11:46
2	Se 196.026†	766.2	780.0	0.9880 mg/L	0.9880 mg/L	20:11:46
2	Sn 189.927†	2024.4	1860.2	0.4866 mg/L	0.4866 mg/L	20:11:46
2	Sr 407.771†	1108804.0	1116560.8	0.0502 mg/L	0.0502 mg/L	20:11:20
2	Ti 337.279†	384978.8	391835.2	0.4950 mg/L	0.4950 mg/L	20:11:20
2	Tl 190.801†	575.7	563.5	0.4857 mg/L	0.4857 mg/L	20:11:46
2	V 292.402†	122564.7	125745.9	0.5074 mg/L	0.5074 mg/L	20:11:25
2	Zn 213.857†	38823.4	38641.8	0.4980 mg/L	0.4980 mg/L	20:11:25

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3329852.0	0.990 mg/L	0.0033			0.33%
Ag 328.068†	72199.6	0.2510 mg/L	0.00158	0.2510 mg/L	0.00158	0.63%
QC value within limits for Ag 328.068 Recovery = 100.41%						
Al 237.313†	22003.5	2.481 mg/L	0.0067	2.481 mg/L	0.0067	0.27%
QC value within limits for Al 237.313 Recovery = 99.25%						
As 188.979†	357.0	0.4906 mg/L	0.00578	0.4906 mg/L	0.00578	1.18%
QC value within limits for As 188.979 Recovery = 98.12%						
B 182.528†	214.7	0.4882 mg/L	0.00399	0.4882 mg/L	0.00399	0.82%
QC value within limits for B 182.528 Recovery = 97.64%						
Ba 233.527†	59972.2	0.4997 mg/L	0.00167	0.4997 mg/L	0.00167	0.33%
QC value within limits for Ba 233.527 Recovery = 99.93%						
Be 313.107†	240217.1	0.0494 mg/L	0.00023	0.0494 mg/L	0.00023	0.47%
QC value within limits for Be 313.107 Recovery = 98.80%						
Ca 315.886†	732550.8	5.024 mg/L	0.0093	5.024 mg/L	0.0093	0.19%
QC value within limits for Ca 315.886 Recovery = 100.49%						
Cd 228.802†	10068.9	0.2482 mg/L	0.00089	0.2482 mg/L	0.00089	0.36%
QC value within limits for Cd 228.802 Recovery = 99.29%						
Co 228.616†	18997.0	0.4960 mg/L	0.00210	0.4960 mg/L	0.00210	0.42%
QC value within limits for Co 228.616 Recovery = 99.20%						
Cr 267.716†	77154.5	0.5001 mg/L	0.00165	0.5001 mg/L	0.00165	0.33%
QC value within limits for Cr 267.716 Recovery = 100.02%						
Cu 324.752†	132575.0	0.5026 mg/L	0.00267	0.5026 mg/L	0.00267	0.53%
QC value within limits for Cu 324.752 Recovery = 100.52%						
Fe 234.349†	131375.4	2.502 mg/L	0.0063	2.502 mg/L	0.0063	0.25%
QC value within limits for Fe 234.349 Recovery = 100.08%						
Fe 238.204†	293793.3	2.509 mg/L	0.0096	2.509 mg/L	0.0096	0.38%
QC value within limits for Fe 238.204 Recovery = 100.34%						
K 766.490†	44890.1	24.62 mg/L	0.100	24.62 mg/L	0.100	0.41%
QC value within limits for K 766.490 Recovery = 98.46%						
Li 670.784†	17513.0	0.5008 mg/L	0.00155	0.5008 mg/L	0.00155	0.31%
QC value within limits for Li 670.784 Recovery = 100.16%						
Mg 279.077†	125409.0	5.028 mg/L	0.0237	5.028 mg/L	0.0237	0.47%
QC value within limits for Mg 279.077 Recovery = 100.57%						
Mn 257.610†	458983.4	0.5025 mg/L	0.00069	0.5025 mg/L	0.00069	0.14%



Mo	202.031†	7526.3	0.4954 mg/L	0.00229	0.4954 mg/L	0.00229	0.46%
QC value within limits for Mo 202.031 Recovery = 99.09%							
Na	589.592	204866.8	24.79 mg/L	0.004	24.79 mg/L	0.004	0.01%
QC value within limits for Na 589.592 Recovery = 99.16%							
Ni	231.604†	15790.0	0.5061 mg/L	0.00088	0.5061 mg/L	0.00088	0.17%
QC value within limits for Ni 231.604 Recovery = 101.21%							
P	214.914†	6874.9	4.925 mg/L	0.0095	4.925 mg/L	0.0095	0.19%
QC value within limits for P 214.914 Recovery = 98.50%							
Pb	220.353†	4417.5	0.4985 mg/L	0.00113	0.4985 mg/L	0.00113	0.23%
QC value within limits for Pb 220.353 Recovery = 99.71%							
Sb	206.836†	1023.4	0.4823 mg/L	0.00024	0.4823 mg/L	0.00024	0.05%
QC value within limits for Sb 206.836 Recovery = 96.46%							
Se	196.026†	783.6	0.9925 mg/L	0.00639	0.9925 mg/L	0.00639	0.64%
QC value within limits for Se 196.026 Recovery = 99.25%							
Sn	189.927†	1859.7	0.4864 mg/L	0.00020	0.4864 mg/L	0.00020	0.04%
QC value within limits for Sn 189.927 Recovery = 97.29%							
Sr	407.771†	116266.6	0.0502 mg/L	0.00002	0.0502 mg/L	0.00002	0.04%
QC value within limits for Sr 407.771 Recovery = 100.47%							
Ti	337.279†	391725.0	0.4948 mg/L	0.00020	0.4948 mg/L	0.00020	0.04%
QC value within limits for Ti 337.279 Recovery = 98.96%							
Tl	190.801†	549.3	0.4741 mg/L	0.01641	0.4741 mg/L	0.01641	3.46%
QC value within limits for Tl 190.801 Recovery = 94.82%							
V	292.402†	125471.2	0.5063 mg/L	0.00158	0.5063 mg/L	0.00158	0.31%
QC value within limits for V 292.402 Recovery = 101.26%							
Zn	213.857†	38646.9	0.4980 mg/L	0.00009	0.4980 mg/L	0.00009	0.02%
QC value within limits for Zn 213.857 Recovery = 99.61%							

All analyte(s) passed QC.

Sequence No.: 14

Sample ID: ICCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 6/23/2006 8:13:24 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	598.6	32.0	0.0215 mg/L	0.0215 mg/L	20:14:58
1	Li 670.784†	192.8	21.1	-0.0017 mg/L	-0.0017 mg/L	20:14:58
1	Na 589.592	-671.0	142.2	-0.0843 mg/L	-0.0843 mg/L	20:14:58
1	Y 371.029	3394126.6	3394126.6	1.01 mg/L		20:15:12
1	Ag 328.068†	-2214.5	358.8	0.0004 mg/L	0.0004 mg/L	20:15:17
1	Al 237.313†	-55.6	-2.0	0.0026 mg/L	0.0026 mg/L	20:15:37
1	As 188.979†	10.1	5.3	0.0102 mg/L	0.0102 mg/L	20:15:37
1	B 182.528†	-1.2	1.5	0.0090 mg/L	0.0090 mg/L	20:15:37
1	Ba 233.527†	-187.4	-5.8	-0.0004 mg/L	-0.0004 mg/L	20:15:37
1	Be 313.107†	2078.0	-142.8	0.0001 mg/L	0.0001 mg/L	20:15:17
1	Ca 315.886†	1841.3	5.4	-0.0041 mg/L	-0.0041 mg/L	20:15:17
1	Cd 228.802†	121.0	4.2	0.0000 mg/L	0.0000 mg/L	20:15:37
1	Co 228.616†	-158.6	19.6	0.0003 mg/L	0.0003 mg/L	20:15:37
1	Cr 267.716†	1334.0	-33.4	-0.0006 mg/L	-0.0006 mg/L	20:15:17
1	Cu 324.752†	2015.5	74.3	-0.0012 mg/L	-0.0012 mg/L	20:15:17
1	Fe 234.349†	1227.7	-21.2	-0.0043 mg/L	-0.0043 mg/L	20:15:37
1	Fe 238.204†	1137.1	11.7	-0.0053 mg/L	-0.0053 mg/L	20:15:37
1	Mg 279.077†	590.9	42.9	-0.0096 mg/L	-0.0096 mg/L	20:15:17
1	Mn 257.610†	1936.1	37.0	-0.0025 mg/L	-0.0025 mg/L	20:15:17
1	Mo 202.031†	37.2	-0.4	0.0001 mg/L	0.0001 mg/L	20:15:37
1	Ni 231.604†	36.9	6.9	0.0005 mg/L	0.0005 mg/L	20:15:37
1	P 214.914†	51.9	7.7	0.0309 mg/L	0.0309 mg/L	20:15:37
1	Pb 220.353†	-142.4	10.3	-0.0005 mg/L	-0.0005 mg/L	20:15:37
1	Sb 206.836†	9.6	-5.7	-0.0020 mg/L	-0.0020 mg/L	20:15:37
1	Se 196.026†	-7.5	-3.4	0.0061 mg/L	0.0061 mg/L	20:15:37
1	Sn 189.927†	143.4	-47.7	-0.0196 mg/L	-0.0196 mg/L	20:15:37
1	Sr 407.771†	6489.4	127.5	-0.0002 mg/L	-0.0002 mg/L	20:15:12
1	Ti 337.279†	-2032.6	-40.4	0.0006 mg/L	0.0006 mg/L	20:15:17
1	Tl 190.801†	19.2	-0.4	0.0209 mg/L	0.0209 mg/L	20:15:37
1	V 292.402†	-1612.0	29.1	0.0008 mg/L	0.0008 mg/L	20:15:17
1	Zn 213.857†	673.7	-6.1	0.0004 mg/L	0.0004 mg/L	20:15:37
2	K 766.490†	603.0	42.2	0.0271 mg/L	0.0271 mg/L	20:15:04

2	Li 670.784†	169.4	-0.4	-0.0023 mg/L	-0.0023 mg/L	20:15:04
2	Na 589.592	-642.0	171.2	-0.0807 mg/L	-0.0807 mg/L	20:15:04
2	Y 371.029	3360737.4	3360737.4	0.999 mg/L		20:15:43
2	Ag 328.068†	-2226.2	325.3	0.0003 mg/L	0.0003 mg/L	20:15:48
2	Al 237.313†	-20.9	32.1	0.0065 mg/L	0.0065 mg/L	20:16:09
2	As 188.979†	5.7	1.0	0.0043 mg/L	0.0043 mg/L	20:16:09
2	B 182.528†	-2.4	0.3	0.0063 mg/L	0.0063 mg/L	20:16:09
2	Ba 233.527†	-182.1	-2.4	-0.0004 mg/L	-0.0004 mg/L	20:16:09
2	Be 313.107†	2191.6	-8.6	0.0001 mg/L	0.0001 mg/L	20:15:48
2	Ca 315.886†	1701.4	-116.5	-0.0049 mg/L	-0.0049 mg/L	20:15:48
2	Cd 228.802†	131.2	15.7	0.0003 mg/L	0.0003 mg/L	20:16:09
2	Co 228.616†	-172.4	4.2	-0.0001 mg/L	-0.0001 mg/L	20:16:09
2	Cr 267.716†	1290.3	-64.0	-0.0008 mg/L	-0.0008 mg/L	20:15:48
2	Cu 324.752†	2123.6	202.3	-0.0007 mg/L	-0.0007 mg/L	20:15:48
2	Fe 234.349†	1227.2	-9.6	-0.0040 mg/L	-0.0040 mg/L	20:16:09
2	Fe 238.204†	1088.7	-25.6	-0.0056 mg/L	-0.0056 mg/L	20:16:09
2	Mg 279.077†	533.3	-8.9	-0.0117 mg/L	-0.0117 mg/L	20:15:48
2	Mn 257.610†	1909.0	28.9	-0.0025 mg/L	-0.0025 mg/L	20:15:48
2	Mo 202.031†	47.2	10.0	0.0008 mg/L	0.0008 mg/L	20:16:09
2	Ni 231.604†	36.8	7.2	0.0005 mg/L	0.0005 mg/L	20:16:09
2	P 214.914†	41.1	-2.6	0.0235 mg/L	0.0235 mg/L	20:16:09
2	Pb 220.353†	-143.0	8.4	-0.0008 mg/L	-0.0008 mg/L	20:16:09
2	Sb 206.836†	5.9	-9.3	-0.0038 mg/L	-0.0038 mg/L	20:16:09
2	Se 196.026†	-7.1	-3.0	0.0066 mg/L	0.0066 mg/L	20:16:09
2	Sn 189.927†	149.8	-39.8	-0.0175 mg/L	-0.0175 mg/L	20:16:09
2	Sr 407.771†	6221.0	-77.3	-0.0002 mg/L	-0.0002 mg/L	20:15:43
2	Ti 337.279†	-2078.3	-106.2	0.0006 mg/L	0.0006 mg/L	20:15:48
2	Tl 190.801†	13.0	-6.4	0.0159 mg/L	0.0159 mg/L	20:16:09
2	V 292.402†	-1586.3	39.0	0.0009 mg/L	0.0009 mg/L	20:15:48
2	Zn 213.857†	658.2	-15.1	0.0003 mg/L	0.0003 mg/L	20:16:09

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Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3377432.0	1.00 mg/L	0.007			0.70%
Ag 328.068†	342.1	0.0004 mg/L	0.00008	0.0004 mg/L	0.00008	21.02%
QC value within limits for Ag 328.068		Recovery =	Not calculated			
Al 237.313†	15.0	0.0045 mg/L	0.00273	0.0045 mg/L	0.00273	60.20%
QC value within limits for Al 237.313		Recovery =	Not calculated			
As 188.979†	3.2	0.0073 mg/L	0.00415	0.0073 mg/L	0.00415	57.21%
QC value within limits for As 188.979		Recovery =	Not calculated			
B 182.528†	0.9	0.0076 mg/L	0.00187	0.0076 mg/L	0.00187	24.49%
QC value within limits for B 182.528		Recovery =	Not calculated			
Ba 233.527†	-4.1	-0.0004 mg/L	0.00002	-0.0004 mg/L	0.00002	4.92%
QC value within limits for Ba 233.527		Recovery =	Not calculated			
Be 313.107†	-75.7	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	18.56%
QC value within limits for Be 313.107		Recovery =	Not calculated			
Ca 315.886†	-55.5	-0.0045 mg/L	0.00059	-0.0045 mg/L	0.00059	13.18%
QC value within limits for Ca 315.886		Recovery =	Not calculated			
Cd 228.802†	9.9	0.0002 mg/L	0.00022	0.0002 mg/L	0.00022	129.60%
QC value within limits for Cd 228.802		Recovery =	Not calculated			
Co 228.616†	11.9	0.0001 mg/L	0.00028	0.0001 mg/L	0.00028	402.87%
QC value within limits for Co 228.616		Recovery =	Not calculated			
Cr 267.716†	-48.7	-0.0007 mg/L	0.00014	-0.0007 mg/L	0.00014	21.22%
QC value within limits for Cr 267.716		Recovery =	Not calculated			
Cu 324.752†	138.3	-0.0009 mg/L	0.00034	-0.0009 mg/L	0.00034	37.30%
QC value within limits for Cu 324.752		Recovery =	Not calculated			
Fe 234.349†	-15.4	-0.0042 mg/L	0.00016	-0.0042 mg/L	0.00016	3.77%
QC value within limits for Fe 234.349		Recovery =	Not calculated			
Fe 238.204†	-6.9	-0.0054 mg/L	0.00023	-0.0054 mg/L	0.00023	4.17%
QC value within limits for Fe 238.204		Recovery =	Not calculated			
K 766.490†	37.1	0.0243 mg/L	0.00397	0.0243 mg/L	0.00397	16.37%
QC value within limits for K 766.490		Recovery =	Not calculated			
Li 670.784†	10.3	-0.0020 mg/L	0.00044	-0.0020 mg/L	0.00044	21.69%
QC value within limits for Li 670.784		Recovery =	Not calculated			
Mg 279.077†	17.0	-0.0107 mg/L	0.00147	-0.0107 mg/L	0.00147	13.78%
QC value less than the lower limit for Mg 279.077		Recovery =	Not calculated			
Mn 257.610†	32.9	-0.0025 mg/L	0.00001	-0.0025 mg/L	0.00001	0.25%
QC value within limits for Mn 257.610		Recovery =	Not calculated			
Mo 202.031†	4.8	0.0005 mg/L	0.00048	0.0005 mg/L	0.00048	101.19%
QC value within limits for Mo 202.031		Recovery =	Not calculated			

Na 589.592	156.7	-0.0825 mg/L	0.00249	-0.0825 mg/L	0.00249	3.02%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	7.1	0.0005 mg/L	0.00001	0.0005 mg/L	0.00001	1.11%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	2.5	0.0272 mg/L	0.00519	0.0272 mg/L	0.00519	19.10%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	9.4	-0.0007 mg/L	0.00015	-0.0007 mg/L	0.00015	23.71%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-7.5	-0.0029 mg/L	0.00123	-0.0029 mg/L	0.00123	42.57%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-3.2	0.0064 mg/L	0.00033	0.0064 mg/L	0.00033	5.11%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-43.7	-0.0185 mg/L	0.00147	-0.0185 mg/L	0.00147	7.96%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	25.1	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	2.81%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	-73.3	0.0006 mg/L	0.00006	0.0006 mg/L	0.00006	9.82%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	-3.4	0.0184 mg/L	0.00349	0.0184 mg/L	0.00349	18.96%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	34.0	0.0009 mg/L	0.00004	0.0009 mg/L	0.00004	4.15%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-10.6	0.0004 mg/L	0.00008	0.0004 mg/L	0.00008	21.72%
QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 15

Autosampler Location: 9

Sample ID: BF62317-BLK1

Date Collected: 6/23/2006 8:17:46 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: BF62317-BLK1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	611.6	49.2	0.0309 mg/L	0.0309 mg/L	20:19:19
1	Li 670.784†	118.7	-51.5	-0.0038 mg/L	-0.0038 mg/L	20:19:19
1	Na 589.592	10813.7	11626.9	1.311 mg/L	1.311 mg/L	20:19:19
1	Y 371.029	3369844.4	3369844.4	1.00 mg/L	1.00 mg/L	20:19:32
1	Ag 328.068†	-2260.3	297.3	0.0002 mg/L	0.0002 mg/L	20:19:37
1	Al 237.313†	-21.4	31.7	0.0063 mg/L	0.0063 mg/L	20:19:57
1	As 188.979†	4.4	-0.4	0.0025 mg/L	0.0025 mg/L	20:19:57
1	B 182.528†	-3.3	-0.5	0.0044 mg/L	0.0044 mg/L	20:19:57
1	Ba 233.527†	-146.4	33.8	-0.0001 mg/L	-0.0001 mg/L	20:19:57
1	Be 313.107†	2279.8	73.5	0.0001 mg/L	0.0001 mg/L	20:19:37
1	Ca 315.886†	9587.8	7752.1	0.0491 mg/L	0.0491 mg/L	20:19:37
1	Cd 228.802†	126.7	10.8	0.0002 mg/L	0.0002 mg/L	20:19:57
1	Co 228.616†	-175.4	1.7	-0.0002 mg/L	-0.0002 mg/L	20:19:57
1	Cr 267.716†	2076.3	717.2	0.0043 mg/L	0.0043 mg/L	20:19:37
1	Cu 324.752†	2517.9	590.2	0.0008 mg/L	0.0008 mg/L	20:19:37
1	Fe 234.349†	2227.1	985.3	0.0149 mg/L	0.0149 mg/L	20:19:37
1	Fe 238.204†	3150.8	2030.2	0.0120 mg/L	0.0120 mg/L	20:19:57
1	Mg 279.077†	720.8	176.9	-0.0043 mg/L	-0.0043 mg/L	20:19:37
1	Mn 257.610†	2424.1	538.0	-0.0019 mg/L	-0.0019 mg/L	20:19:37
1	Mo 202.031†	45.4	8.0	0.0007 mg/L	0.0007 mg/L	20:19:57
1	Ni 231.604†	113.6	83.8	0.0030 mg/L	0.0030 mg/L	20:19:57
1	P 214.914†	1215.8	1170.0	0.8592 mg/L	0.8592 mg/L	20:19:57
1	Pb 220.353†	-122.5	29.3	0.0016 mg/L	0.0016 mg/L	20:19:57
1	Sb 206.836†	4.7	-10.5	-0.0045 mg/L	-0.0045 mg/L	20:19:57
1	Se 196.026†	-7.1	-3.1	0.0065 mg/L	0.0065 mg/L	20:19:57
1	Sn 189.927†	184.6	-5.5	-0.0084 mg/L	-0.0084 mg/L	20:19:57
1	Sr 407.771†	7052.4	735.9	-0.0002 mg/L	-0.0002 mg/L	20:19:32
1	Ti 337.279†	-2012.6	-35.0	0.0006 mg/L	0.0006 mg/L	20:19:37
1	Tl 190.801†	18.6	-0.9	0.0205 mg/L	0.0205 mg/L	20:19:57
1	V 292.402†	-1531.2	98.3	0.0011 mg/L	0.0011 mg/L	20:19:37
1	Zn 213.857†	995.8	320.2	0.0046 mg/L	0.0046 mg/L	20:19:57
2	K 766.490†	567.8	9.0	0.0089 mg/L	0.0089 mg/L	20:19:24
2	Li 670.784†	124.8	-44.7	-0.0036 mg/L	-0.0036 mg/L	20:19:24
2	Na 589.592	10848.8	11662.0	1.315 mg/L	1.315 mg/L	20:19:24
2	Y 371.029	3348885.7	3348885.7	0.995 mg/L	0.995 mg/L	20:20:03

2	Ag 328.068†	-2724.6	-183.2	-0.0014 mg/L	-0.0014 mg/L	20:20:09
2	Al 237.313†	-10.2	42.8	0.0076 mg/L	0.0076 mg/L	20:20:29
2	As 188.979†	5.0	0.3	0.0033 mg/L	0.0033 mg/L	20:20:29
2	B 182.528†	-1.3	1.4	0.0087 mg/L	0.0087 mg/L	20:20:29
2	Ba 233.527†	-164.5	14.7	-0.0003 mg/L	-0.0003 mg/L	20:20:29
2	Be 313.107†	2213.7	21.4	0.0001 mg/L	0.0001 mg/L	20:20:09
2	Ca 315.886†	9502.6	7726.4	0.0489 mg/L	0.0489 mg/L	20:20:09
2	Cd 228.802†	120.9	5.8	0.0001 mg/L	0.0001 mg/L	20:20:29
2	Co 228.616†	-176.1	-0.1	-0.0002 mg/L	-0.0002 mg/L	20:20:29
2	Cr 267.716†	1977.6	631.0	0.0038 mg/L	0.0038 mg/L	20:20:09
2	Cu 324.752†	2424.2	511.8	0.0005 mg/L	0.0005 mg/L	20:20:09
2	Fe 234.349†	2171.0	942.9	0.0141 mg/L	0.0141 mg/L	20:20:09
2	Fe 238.204†	3177.9	2077.0	0.0124 mg/L	0.0124 mg/L	20:20:29
2	Mg 279.077†	640.6	100.8	-0.0073 mg/L	-0.0073 mg/L	20:20:09
2	Mn 257.610†	2359.6	488.3	-0.0020 mg/L	-0.0020 mg/L	20:20:09
2	Mo 202.031†	37.7	0.6	0.0002 mg/L	0.0002 mg/L	20:20:29
2	Ni 231.604†	114.7	85.6	0.0030 mg/L	0.0030 mg/L	20:20:29
2	P 214.914†	1221.2	1183.1	0.8685 mg/L	0.8685 mg/L	20:20:29
2	Pb 220.353†	-139.0	11.9	-0.0004 mg/L	-0.0004 mg/L	20:20:29
2	Sb 206.836†	5.0	-10.2	-0.0043 mg/L	-0.0043 mg/L	20:20:29
2	Se 196.026†	-6.1	-2.1	0.0077 mg/L	0.0077 mg/L	20:20:29
2	Sn 189.927†	170.1	-18.9	-0.0119 mg/L	-0.0119 mg/L	20:20:29
2	Sr 407.771†	6980.8	708.1	-0.0002 mg/L	-0.0002 mg/L	20:20:03
2	Ti 337.279†	-1975.4	-10.2	0.0007 mg/L	0.0007 mg/L	20:20:09
2	Tl 190.801†	8.2	-11.3	0.0120 mg/L	0.0120 mg/L	20:20:29
2	V 292.402†	-1647.6	-28.2	0.0006 mg/L	0.0006 mg/L	20:20:09
2	Zn 213.857†	1030.4	361.2	0.0052 mg/L	0.0052 mg/L	20:20:29

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 Mean Data: BF62317-BLK1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3359365.1	0.999 mg/L	0.0044			0.44%
Ag 328.068†	57.0	-0.0006 mg/L	0.00118	-0.0006 mg/L	0.00118	197.03%
Al 237.313†	37.2	0.0070 mg/L	0.00089	0.0070 mg/L	0.00089	12.79%
As 188.979†	-0.0	0.0029 mg/L	0.00059	0.0029 mg/L	0.00059	20.52%
B 182.528†	0.4	0.0066 mg/L	0.00306	0.0066 mg/L	0.00306	46.65%
Ba 233.527†	24.3	-0.0002 mg/L	0.00011	-0.0002 mg/L	0.00011	65.05%
Be 313.107†	47.5	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	5.83%
Ca 315.886†	7739.3	0.0490 mg/L	0.00013	0.0490 mg/L	0.00013	0.26%
Cd 228.802†	8.3	0.0002 mg/L	0.00009	0.0002 mg/L	0.00009	58.99%
Co 228.616†	0.8	-0.0002 mg/L	0.00003	-0.0002 mg/L	0.00003	15.10%
Cr 267.716†	674.1	0.0040 mg/L	0.00040	0.0040 mg/L	0.00040	9.82%
Cu 324.752†	551.0	0.0006 mg/L	0.00021	0.0006 mg/L	0.00021	32.40%
Fe 234.349†	964.1	0.0145 mg/L	0.00057	0.0145 mg/L	0.00057	3.95%
Fe 238.204†	2053.6	0.0122 mg/L	0.00028	0.0122 mg/L	0.00028	2.31%
K 766.490†	29.1	0.0199 mg/L	0.01559	0.0199 mg/L	0.01559	78.30%
Li 670.784†	-48.1	-0.0037 mg/L	0.00014	-0.0037 mg/L	0.00014	3.76%
Mg 279.077†	138.8	-0.0058 mg/L	0.00216	-0.0058 mg/L	0.00216	37.33%
Mn 257.610†	513.1	-0.0020 mg/L	0.00004	-0.0020 mg/L	0.00004	1.98%
Mo 202.031†	4.3	0.0004 mg/L	0.00034	0.0004 mg/L	0.00034	77.11%
Na 589.592	11644.5	1.313 mg/L	0.0030	1.313 mg/L	0.0030	0.23%
Ni 231.604†	84.7	0.0030 mg/L	0.00004	0.0030 mg/L	0.00004	1.35%
P 214.914†	1176.5	0.8639 mg/L	0.00658	0.8639 mg/L	0.00658	0.76%
Pb 220.353†	20.6	0.0006 mg/L	0.00139	0.0006 mg/L	0.00139	226.42%
Sb 206.836†	-10.4	-0.0044 mg/L	0.00011	-0.0044 mg/L	0.00011	2.63%
Se 196.026†	-2.6	0.0071 mg/L	0.00084	0.0071 mg/L	0.00084	11.80%
Sn 189.927†	-12.2	-0.0102 mg/L	0.00250	-0.0102 mg/L	0.00250	24.63%
Sr 407.771†	722.0	-0.0002 mg/L	0.00000	-0.0002 mg/L	0.00000	0.44%
Ti 337.279†	-22.6	0.0007 mg/L	0.00002	0.0007 mg/L	0.00002	3.35%
Tl 190.801†	-6.1	0.0162 mg/L	0.00602	0.0162 mg/L	0.00602	37.11%
V 292.402†	35.0	0.0009 mg/L	0.00036	0.0009 mg/L	0.00036	41.44%
Zn 213.857†	340.7	0.0049 mg/L	0.00037	0.0049 mg/L	0.00037	7.62%

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 Sequence No.: 16  
 Sample ID: BF62317-BS1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

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 Autosampler Location: 10  
 Date Collected: 6/23/2006 8:22:06 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

## Replicate Data: BF62317-BS1

Repl#	Analyte	Net		Corrected		Calib.		Sample		Analysis Time
		Intensity	Conc.	Intensity	Conc.	Units	Conc.	Units		
1	K 766.490†	45162.0	25.22	45989.9	25.22	mg/L	25.22	mg/L	20:23:42	
1	Li 670.784†	17230.6	0.5030	17590.6	0.5030	mg/L	0.5030	mg/L	20:23:42	
1	Na 589.592	200613.1	24.37	201426.3	24.37	mg/L	24.37	mg/L	20:23:42	
1	Y 371.029	3263801.1	0.970	3263801.1	0.970	mg/L			20:23:56	
1	Ag 328.068†	65675.1	0.2442	70249.3	0.2442	mg/L	0.2442	mg/L	20:24:02	
1	Al 237.313†	20786.7	2.422	21479.2	2.422	mg/L	2.422	mg/L	20:24:02	
1	As 188.979†	347.2	0.4853	353.2	0.4853	mg/L	0.4853	mg/L	20:24:22	
1	B 182.528†	201.9	0.4794	210.8	0.4794	mg/L	0.4794	mg/L	20:24:22	
1	Ba 233.527†	57172.3	0.4925	59111.0	0.4925	mg/L	0.4925	mg/L	20:24:02	
1	Be 313.107†	230832.9	0.0485	235731.6	0.0485	mg/L	0.0485	mg/L	20:24:02	
1	Ca 315.886†	715395.7	5.045	735583.8	5.045	mg/L	5.045	mg/L	20:23:56	
1	Cd 228.802†	9614.1	0.2414	9794.2	0.2414	mg/L	0.2414	mg/L	20:24:22	
1	Co 228.616†	17890.8	0.4861	18618.0	0.4861	mg/L	0.4861	mg/L	20:24:02	
1	Cr 267.716†	76883.9	0.5049	77893.5	0.5049	mg/L	0.5049	mg/L	20:24:02	
1	Cu 324.752†	131855.2	0.5080	133988.0	0.5080	mg/L	0.5080	mg/L	20:24:02	
1	Fe 234.349†	129055.0	2.510	131787.1	2.510	mg/L	2.510	mg/L	20:24:02	
1	Fe 238.204†	287557.5	2.521	295288.3	2.521	mg/L	2.521	mg/L	20:24:02	
1	Mg 279.077†	118161.8	4.861	121254.1	4.861	mg/L	4.861	mg/L	20:24:02	
1	Mn 257.610†	444377.3	0.4994	456165.7	0.4994	mg/L	0.4994	mg/L	20:23:56	
1	Mo 202.031†	7349.5	0.4962	7538.3	0.4962	mg/L	0.4962	mg/L	20:24:22	
1	Ni 231.604†	15358.0	0.5064	15800.8	0.5064	mg/L	0.5064	mg/L	20:24:02	
1	P 214.914†	6371.2	4.674	6523.4	4.674	mg/L	4.674	mg/L	20:24:22	
1	Pb 220.353†	3994.6	0.4818	4269.0	0.4818	mg/L	0.4818	mg/L	20:24:22	
1	Sb 206.836†	961.9	0.4596	976.3	0.4596	mg/L	0.4596	mg/L	20:24:22	
1	Se 196.026†	714.2	0.9382	740.2	0.9382	mg/L	0.9382	mg/L	20:24:22	
1	Sn 189.927†	2084.8	0.5128	1959.2	0.5128	mg/L	0.5128	mg/L	20:24:22	
1	Sr 407.771†	1089628.0	0.0503	1116843.7	0.0503	mg/L	0.0503	mg/L	20:23:56	
1	Ti 337.279†	370773.5	0.4853	384153.9	0.4853	mg/L	0.4853	mg/L	20:24:02	
1	Tl 190.801†	602.9	0.5172	601.9	0.5172	mg/L	0.5172	mg/L	20:24:22	
1	V 292.402†	120465.1	0.5076	125797.8	0.5076	mg/L	0.5076	mg/L	20:24:02	
1	Zn 213.857†	37050.0	0.4834	37515.8	0.4834	mg/L	0.4834	mg/L	20:24:02	
2	K 766.490†	44880.4	24.91	45429.9	24.91	mg/L	24.91	mg/L	20:23:47	
2	Li 670.784†	17135.6	0.4973	17389.7	0.4973	mg/L	0.4973	mg/L	20:23:47	
2	Na 589.592	200239.5	24.33	201052.7	24.33	mg/L	24.33	mg/L	20:23:47	
2	Y 371.029	3282945.1	0.976	3282945.1	0.976	mg/L			20:24:28	
2	Ag 328.068†	66112.2	0.2444	70302.4	0.2444	mg/L	0.2444	mg/L	20:24:34	
2	Al 237.313†	20771.3	2.406	21338.5	2.406	mg/L	2.406	mg/L	20:24:34	
2	As 188.979†	347.7	0.4832	351.6	0.4832	mg/L	0.4832	mg/L	20:24:54	
2	B 182.528†	201.1	0.4748	208.8	0.4748	mg/L	0.4748	mg/L	20:24:54	
2	Ba 233.527†	57249.9	0.4903	58846.9	0.4903	mg/L	0.4903	mg/L	20:24:34	
2	Be 313.107†	231333.3	0.0483	234856.9	0.0483	mg/L	0.0483	mg/L	20:24:34	
2	Ca 315.886†	717775.2	5.032	733722.2	5.032	mg/L	5.032	mg/L	20:24:28	
2	Cd 228.802†	9671.6	0.2415	9795.3	0.2415	mg/L	0.2415	mg/L	20:24:54	
2	Co 228.616†	17957.9	0.4851	18579.2	0.4851	mg/L	0.4851	mg/L	20:24:34	
2	Cr 267.716†	76846.1	0.5016	77392.6	0.5016	mg/L	0.5016	mg/L	20:24:34	
2	Cu 324.752†	131943.4	0.5053	133285.9	0.5053	mg/L	0.5053	mg/L	20:24:34	
2	Fe 234.349†	129256.2	2.499	131217.6	2.499	mg/L	2.499	mg/L	20:24:34	
2	Fe 238.204†	288041.5	2.511	294055.9	2.511	mg/L	2.511	mg/L	20:24:34	
2	Mg 279.077†	118109.2	4.831	120490.0	4.831	mg/L	4.831	mg/L	20:24:34	
2	Mn 257.610†	446413.2	0.4988	455581.0	0.4988	mg/L	0.4988	mg/L	20:24:28	
2	Mo 202.031†	7397.2	0.4965	7543.0	0.4965	mg/L	0.4965	mg/L	20:24:54	
2	Ni 231.604†	15323.4	0.5023	15673.1	0.5023	mg/L	0.5023	mg/L	20:24:34	
2	P 214.914†	6427.8	4.688	6543.1	4.688	mg/L	4.688	mg/L	20:24:54	
2	Pb 220.353†	4009.4	0.4808	4260.2	0.4808	mg/L	0.4808	mg/L	20:24:54	
2	Sb 206.836†	970.0	0.4608	978.8	0.4608	mg/L	0.4608	mg/L	20:24:54	
2	Se 196.026†	721.8	0.9425	743.7	0.9425	mg/L	0.9425	mg/L	20:24:54	
2	Sn 189.927†	2106.4	0.5153	1968.7	0.5153	mg/L	0.5153	mg/L	20:24:54	
2	Sr 407.771†	1095423.6	0.0502	1116233.3	0.0502	mg/L	0.0502	mg/L	20:24:28	
2	Ti 337.279†	371661.9	0.4836	382835.6	0.4836	mg/L	0.4836	mg/L	20:24:34	
2	Tl 190.801†	608.0	0.5185	603.5	0.5185	mg/L	0.5185	mg/L	20:24:54	
2	V 292.402†	120303.1	0.5041	124907.7	0.5041	mg/L	0.5041	mg/L	20:24:34	
2	Zn 213.857†	37041.6	0.4804	37284.6	0.4804	mg/L	0.4804	mg/L	20:24:34	

## Mean Data: BF62317-BS1

Analyte	Mean Corrected		Calib		Std.Dev.	Sample		RSD
	Intensity	Conc.	Units	Conc.		Units		
Y 371.029	3273373.1	0.973	mg/L	0.0040			0.41%	
Ag 328.068†	70275.9	0.2443	mg/L	0.00013	0.2443	mg/L	0.05%	

Al 237.313†	21408.8	2.414 mg/L	0.0112	2.414 mg/L	0.0112	0.46%
As 188.979†	352.4	0.4843 mg/L	0.00146	0.4843 mg/L	0.00146	0.30%
B 182.528†	209.8	0.4771 mg/L	0.00327	0.4771 mg/L	0.00327	0.69%
Ba 233.527†	58979.0	0.4914 mg/L	0.00156	0.4914 mg/L	0.00156	0.32%
Be 313.107†	235294.2	0.0484 mg/L	0.00013	0.0484 mg/L	0.00013	0.26%
Ca 315.886†	734653.0	5.039 mg/L	0.0090	5.039 mg/L	0.0090	0.18%
Cd 228.802†	9794.8	0.2414 mg/L	0.00002	0.2414 mg/L	0.00002	0.01%
Co 228.616†	18598.6	0.4856 mg/L	0.00071	0.4856 mg/L	0.00071	0.15%
Cr 267.716†	77643.1	0.5033 mg/L	0.00230	0.5033 mg/L	0.00230	0.46%
Cu 324.752†	133637.0	0.5066 mg/L	0.00189	0.5066 mg/L	0.00189	0.37%
Fe 234.349†	131502.3	2.504 mg/L	0.0077	2.504 mg/L	0.0077	0.31%
Fe 238.204†	294672.1	2.516 mg/L	0.0075	2.516 mg/L	0.0075	0.30%
K 766.490†	45709.9	25.07 mg/L	0.217	25.07 mg/L	0.217	0.87%
Li 670.784†	17490.2	0.5002 mg/L	0.00408	0.5002 mg/L	0.00408	0.82%
Mg 279.077†	120872.0	4.846 mg/L	0.0217	4.846 mg/L	0.0217	0.45%
Mn 257.610†	455873.3	0.4991 mg/L	0.00046	0.4991 mg/L	0.00046	0.09%
Mo 202.031†	7540.7	0.4964 mg/L	0.00022	0.4964 mg/L	0.00022	0.04%
Na 589.592	201239.5	24.35 mg/L	0.032	24.35 mg/L	0.032	0.13%
Ni 231.604†	15737.0	0.5043 mg/L	0.00289	0.5043 mg/L	0.00289	0.57%
P 214.914†	6533.3	4.681 mg/L	0.0099	4.681 mg/L	0.0099	0.21%
Pb 220.353†	4264.6	0.4813 mg/L	0.00071	0.4813 mg/L	0.00071	0.15%
Sb 206.836†	977.6	0.4602 mg/L	0.00089	0.4602 mg/L	0.00089	0.19%
Se 196.026†	742.0	0.9403 mg/L	0.00306	0.9403 mg/L	0.00306	0.33%
Sn 189.927†	1964.0	0.5141 mg/L	0.00179	0.5141 mg/L	0.00179	0.35%
Sr 407.771†	1116538.5	0.0502 mg/L	0.00002	0.0502 mg/L	0.00002	0.04%
Ti 337.279†	383494.8	0.4844 mg/L	0.00118	0.4844 mg/L	0.00118	0.24%
Tl 190.801†	602.7	0.5179 mg/L	0.00094	0.5179 mg/L	0.00094	0.18%
V 292.402†	125352.8	0.5059 mg/L	0.00249	0.5059 mg/L	0.00249	0.49%
Zn 213.857†	37400.2	0.4819 mg/L	0.00210	0.4819 mg/L	0.00210	0.44%

Sequence No.: 17

Autosampler Location: 11

Sample ID: BF62317-BSD1

Date Collected: 6/23/2006 8:26:32 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Replicate Data: BF62317-BSD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	44283.3	44653.5	24.49 mg/L	24.49 mg/L	20:28:06
1	Li 670.784†	16911.7	17097.4	0.4889 mg/L	0.4889 mg/L	20:28:06
1	Na 589.592	196782.7	197595.9	23.91 mg/L	23.91 mg/L	20:28:06
1	Y 371.029	3294890.0	3294890.0	0.979 mg/L	0.979 mg/L	20:28:20
1	Ag 328.068†	64975.4	68896.1	0.2395 mg/L	0.2395 mg/L	20:28:26
1	Al 237.313†	20477.0	20960.8	2.364 mg/L	2.364 mg/L	20:28:26
1	As 188.979†	347.2	349.8	0.4807 mg/L	0.4807 mg/L	20:28:46
1	B 182.528†	195.8	202.6	0.4609 mg/L	0.4609 mg/L	20:28:46
1	Ba 233.527†	56707.0	58079.9	0.4839 mg/L	0.4839 mg/L	20:28:26
1	Be 313.107†	228395.8	230998.2	0.0475 mg/L	0.0475 mg/L	20:28:26
1	Ca 315.886†	712266.7	725431.3	4.975 mg/L	4.975 mg/L	20:28:20
1	Cd 228.802†	9476.0	9559.7	0.2356 mg/L	0.2356 mg/L	20:28:46
1	Co 228.616†	17717.8	18267.4	0.4769 mg/L	0.4769 mg/L	20:28:26
1	Cr 267.716†	76101.0	76346.3	0.4949 mg/L	0.4949 mg/L	20:28:26
1	Cu 324.752†	129824.7	130632.5	0.4952 mg/L	0.4952 mg/L	20:28:26
1	Fe 234.349†	127614.5	129061.1	2.458 mg/L	2.458 mg/L	20:28:26
1	Fe 238.204†	285027.5	289908.4	2.475 mg/L	2.475 mg/L	20:28:26
1	Mg 279.077†	116977.2	118895.4	4.767 mg/L	4.767 mg/L	20:28:26
1	Mn 257.610†	441790.7	449202.8	0.4917 mg/L	0.4917 mg/L	20:28:20
1	Mo 202.031†	7253.1	7368.4	0.4851 mg/L	0.4851 mg/L	20:28:46
1	Ni 231.604†	15164.9	15454.3	0.4953 mg/L	0.4953 mg/L	20:28:26
1	P 214.914†	6314.8	6403.9	4.589 mg/L	4.589 mg/L	20:28:46
1	Pb 220.353†	3935.8	4170.1	0.4706 mg/L	0.4706 mg/L	20:28:46
1	Sb 206.836†	954.9	959.8	0.4518 mg/L	0.4518 mg/L	20:28:46
1	Se 196.026†	701.8	720.6	0.9136 mg/L	0.9136 mg/L	20:28:46
1	Sn 189.927†	2023.1	1875.8	0.4907 mg/L	0.4907 mg/L	20:28:46
1	Sr 407.771†	1081353.0	1097797.2	0.0494 mg/L	0.0494 mg/L	20:28:20
1	Ti 337.279†	369782.1	379535.6	0.4794 mg/L	0.4794 mg/L	20:28:26
1	Tl 190.801†	585.7	578.5	0.4980 mg/L	0.4980 mg/L	20:28:46
1	V 292.402†	119148.8	123282.3	0.4975 mg/L	0.4975 mg/L	20:28:26
1	Zn 213.857†	36541.8	36636.7	0.4721 mg/L	0.4721 mg/L	20:28:26

2	K 766.490†	44035.9	44842.9	24.59 mg/L	24.59 mg/L	20:28:11
2	Li 670.784†	16816.0	17168.6	0.4909 mg/L	0.4909 mg/L	20:28:11
2	Na 589.592	196247.7	197060.9	23.84 mg/L	23.84 mg/L	20:28:11
2	Y 371.029	3262808.1	3262808.1	0.970 mg/L		20:28:52
2	Ag 328.068†	64425.6	68981.6	0.2398 mg/L	0.2398 mg/L	20:28:58
2	Al 237.313†	20271.5	20954.5	2.363 mg/L	2.363 mg/L	20:28:58
2	As 188.979†	339.2	345.1	0.4743 mg/L	0.4743 mg/L	20:29:18
2	B 182.528†	197.7	206.6	0.4699 mg/L	0.4699 mg/L	20:29:18
2	Ba 233.527†	55824.6	57739.4	0.4810 mg/L	0.4810 mg/L	20:28:58
2	Be 313.107†	225262.1	230060.1	0.0473 mg/L	0.0473 mg/L	20:28:58
2	Ca 315.886†	704233.2	724298.9	4.968 mg/L	4.968 mg/L	20:28:52
2	Cd 228.802†	9491.3	9670.6	0.2384 mg/L	0.2384 mg/L	20:29:18
2	Co 228.616†	17492.1	18212.6	0.4755 mg/L	0.4755 mg/L	20:28:58
2	Cr 267.716†	74969.8	75944.1	0.4922 mg/L	0.4922 mg/L	20:28:58
2	Cu 324.752†	128357.8	130423.3	0.4944 mg/L	0.4944 mg/L	20:28:58
2	Fe 234.349†	125951.7	128627.8	2.450 mg/L	2.450 mg/L	20:28:58
2	Fe 238.204†	280905.7	288520.0	2.463 mg/L	2.463 mg/L	20:28:58
2	Mg 279.077†	115120.1	118155.0	4.737 mg/L	4.737 mg/L	20:28:58
2	Mn 257.610†	437364.9	449074.7	0.4916 mg/L	0.4916 mg/L	20:28:52
2	Mo 202.031†	7285.7	7474.8	0.4921 mg/L	0.4921 mg/L	20:29:18
2	Ni 231.604†	15040.2	15478.0	0.4961 mg/L	0.4961 mg/L	20:28:58
2	P 214.914†	6319.6	6472.2	4.638 mg/L	4.638 mg/L	20:29:18
2	Pb 220.353†	3956.3	4230.7	0.4774 mg/L	0.4774 mg/L	20:29:18
2	Sb 206.836†	956.1	970.6	0.4570 mg/L	0.4570 mg/L	20:29:18
2	Se 196.026†	699.0	724.8	0.9188 mg/L	0.9188 mg/L	20:29:18
2	Sn 189.927†	2034.0	1907.4	0.4991 mg/L	0.4991 mg/L	20:29:18
2	Sr 407.771†	1072828.6	1099864.1	0.0495 mg/L	0.0495 mg/L	20:28:52
2	Ti 337.279†	364864.7	378177.8	0.4777 mg/L	0.4777 mg/L	20:28:58
2	Tl 190.801†	599.7	598.8	0.5147 mg/L	0.5147 mg/L	20:29:18
2	V 292.402†	117335.4	122608.7	0.4949 mg/L	0.4949 mg/L	20:28:58
2	Zn 213.857†	36012.1	36457.3	0.4698 mg/L	0.4698 mg/L	20:28:58

Mean Data: BF62317-BSD1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3278849.1	0.975	mg/L	0.0067				0.69%
Ag 328.068†	68938.8	0.2397	mg/L	0.00021	0.2397	mg/L	0.00021	0.09%
Al 237.313†	20957.7	2.363	mg/L	0.0005	2.363	mg/L	0.0005	0.02%
As 188.979†	347.4	0.4775	mg/L	0.00454	0.4775	mg/L	0.00454	0.95%
B 182.528†	204.6	0.4654	mg/L	0.00638	0.4654	mg/L	0.00638	1.37%
Ba 233.527†	57909.7	0.4825	mg/L	0.00200	0.4825	mg/L	0.00200	0.42%
Be 313.107†	230529.2	0.0474	mg/L	0.00014	0.0474	mg/L	0.00014	0.29%
Ca 315.886†	724865.1	4.971	mg/L	0.0055	4.971	mg/L	0.0055	0.11%
Cd 228.802†	9615.2	0.2370	mg/L	0.00196	0.2370	mg/L	0.00196	0.83%
Co 228.616†	18240.0	0.4762	mg/L	0.00101	0.4762	mg/L	0.00101	0.21%
Cr 267.716†	76145.2	0.4936	mg/L	0.00185	0.4936	mg/L	0.00185	0.37%
Cu 324.752†	130527.9	0.4948	mg/L	0.00057	0.4948	mg/L	0.00057	0.11%
Fe 234.349†	128844.5	2.454	mg/L	0.0059	2.454	mg/L	0.0059	0.24%
Fe 238.204†	289214.2	2.469	mg/L	0.0084	2.469	mg/L	0.0084	0.34%
K 766.490†	44748.2	24.54	mg/L	0.073	24.54	mg/L	0.073	0.30%
Li 670.784†	17133.0	0.4899	mg/L	0.00145	0.4899	mg/L	0.00145	0.30%
Mg 279.077†	118525.2	4.752	mg/L	0.0210	4.752	mg/L	0.0210	0.44%
Mn 257.610†	449138.8	0.4917	mg/L	0.00010	0.4917	mg/L	0.00010	0.02%
Mo 202.031†	7421.6	0.4886	mg/L	0.00495	0.4886	mg/L	0.00495	1.01%
Na 589.592	197328.4	23.87	mg/L	0.046	23.87	mg/L	0.046	0.19%
Ni 231.604†	15466.2	0.4957	mg/L	0.00054	0.4957	mg/L	0.00054	0.11%
P 214.914†	6438.1	4.614	mg/L	0.0344	4.614	mg/L	0.0344	0.75%
Pb 220.353†	4200.4	0.4740	mg/L	0.00485	0.4740	mg/L	0.00485	1.02%
Sb 206.836†	965.2	0.4544	mg/L	0.00367	0.4544	mg/L	0.00367	0.81%
Se 196.026†	722.7	0.9162	mg/L	0.00370	0.9162	mg/L	0.00370	0.40%
Sn 189.927†	1891.6	0.4949	mg/L	0.00592	0.4949	mg/L	0.00592	1.20%
Sr 407.771†	1098830.7	0.0494	mg/L	0.00007	0.0494	mg/L	0.00007	0.13%
Ti 337.279†	378856.7	0.4786	mg/L	0.00121	0.4786	mg/L	0.00121	0.25%
Tl 190.801†	588.7	0.5063	mg/L	0.01182	0.5063	mg/L	0.01182	2.33%
V 292.402†	122945.5	0.4962	mg/L	0.00180	0.4962	mg/L	0.00180	0.36%
Zn 213.857†	36547.0	0.4709	mg/L	0.00165	0.4709	mg/L	0.00165	0.35%

Duplicate Check: BF62317-BSD1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
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K 766.490	25.07	24.54	0.073	mg/L	2.1
Li 670.784	0.5002	0.4899	0.001	mg/L	2.1
Na 589.592	24.35	23.87	0.046	mg/L	2.0
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.2443	0.2397	0.000	mg/L	1.9
Al 237.313	2.414	2.363	0.000	mg/L	2.1
As 188.979	0.4843	0.4775	0.005	mg/L	1.4
B 182.528	0.4771	0.4654	0.006	mg/L	2.5
Ba 233.527	0.4914	0.4825	0.002	mg/L	1.8
Be 313.107	0.0484	0.0474	0.000	mg/L	2.0
Ca 315.886	5.039	4.971	0.006	mg/L	1.3
Cd 228.802	0.2414	0.2370	0.002	mg/L	1.9
Co 228.616	0.4856	0.4762	0.001	mg/L	1.9
Cr 267.716	0.5033	0.4936	0.002	mg/L	1.9
Cu 324.752	0.5066	0.4948	0.001	mg/L	2.4
Fe 234.349	2.504	2.454	0.006	mg/L	2.0
Fe 238.204	2.516	2.469	0.008	mg/L	1.9
Mg 279.077	4.846	4.752	0.021	mg/L	2.0
Mn 257.610	0.4991	0.4917	0.000	mg/L	1.5
Mo 202.031	0.4964	0.4886	0.005	mg/L	1.6
Ni 231.604	0.5043	0.4957	0.001	mg/L	1.7
P 214.914	4.681	4.614	0.034	mg/L	1.5
Pb 220.353	0.4813	0.4740	0.005	mg/L	1.5
Sb 206.836	0.4602	0.4544	0.004	mg/L	1.3
Se 196.026	0.9403	0.9162	0.004	mg/L	2.6
Sn 189.927	0.5141	0.4949	0.006	mg/L	3.8
Sr 407.771	0.0502	0.0494	0.000	mg/L	1.6
Ti 337.279	0.4844	0.4786	0.001	mg/L	1.2
Tl 190.801	0.5179	0.5063	0.012	mg/L	2.3
V 292.402	0.5059	0.4962	0.002	mg/L	1.9
Zn 213.857	0.4819	0.4709	0.002	mg/L	2.3

Sequence No.: 18

Sample ID: BF62317-SRM1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 12

Date Collected: 6/23/2006 8:30:56 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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 Replicate Data: BF62317-SRM1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	38178.2	36824.3	20.19 mg/L	20.19 mg/L	20:32:30
1	Li 670.784†	2065.7	1852.7	0.0509 mg/L	0.0509 mg/L	20:32:30
1	Na 589.592	91263.1	92076.3	11.09 mg/L	11.09 mg/L	20:32:30
1	Y 371.029	3435521.9	3435521.9	1.02 mg/L		20:32:59
1	Ag 328.068†	245789.0	243240.7	0.8498 mg/L	0.8498 mg/L	20:33:05
1	Al 237.313†	424313.9	415558.9	46.61 mg/L	46.61 mg/L	20:33:05
1	As 188.979†	960.0	935.4	1.280 mg/L	1.280 mg/L	20:33:25
1	B 182.528†	383.3	378.1	0.8553 mg/L	0.8553 mg/L	20:33:25
1	Ba 233.527†	379844.8	372139.8	3.102 mg/L	3.102 mg/L	20:33:05
1	Be 313.107†	2753423.0	2694064.0	0.5567 mg/L	0.5567 mg/L	20:32:59
1	Ca 315.886†	5161428.0	5052465.4	34.67 mg/L	34.67 mg/L	20:32:59
1	Cd 228.802†	33240.1	32434.5	0.7962 mg/L	0.7962 mg/L	20:33:25
1	Co 228.616†	19789.8	19555.8	0.5080 mg/L	0.5080 mg/L	20:33:25
1	Cr 267.716†	247048.0	240564.1	1.565 mg/L	1.565 mg/L	20:33:05
1	Cu 324.752†	169373.2	163933.9	0.6377 mg/L	0.6377 mg/L	20:33:05
1	Fe 234.349†	4582963.1	4486590.1	85.75 mg/L	85.75 mg/L	20:32:59
1	Fe 238.204†	9792028.3	9587646.2	82.01 mg/L	82.01 mg/L	20:32:50
1	Mg 279.077†	450103.3	440217.2	17.65 mg/L	17.65 mg/L	20:33:05
1	Mn 257.610†	1668078.2	1631569.5	1.793 mg/L	1.793 mg/L	20:32:59
1	Mo 202.031†	3842.9	3725.8	0.2453 mg/L	0.2453 mg/L	20:33:25
1	Ni 231.604†	23770.3	23247.3	0.7445 mg/L	0.7445 mg/L	20:33:05
1	P 214.914†	12865.4	12554.6	8.973 mg/L	8.973 mg/L	20:33:25
1	Pb 220.353†	5146.5	5191.2	0.5905 mg/L	0.5905 mg/L	20:33:25
1	Sb 206.836†	1546.7	1499.4	0.6926 mg/L	0.6926 mg/L	20:33:25
1	Se 196.026†	520.8	514.1	0.6547 mg/L	0.6547 mg/L	20:33:25
1	Sn 189.927†	3601.0	3336.4	0.8823 mg/L	0.8823 mg/L	20:33:25
1	Sr 407.771†	6604218.5	6460820.9	0.2919 mg/L	0.2919 mg/L	20:32:50
1	Ti 337.279†	1359908.4	1333653.1	1.683 mg/L	1.683 mg/L	20:32:59
1	Tl 190.801†	922.8	884.2	0.7654 mg/L	0.7654 mg/L	20:33:25



1	V 292.402†	317075.1	312120.0	1.231 mg/L	1.231 mg/L	20:33:05
1	Zn 213.857†	274464.0	268092.7	3.460 mg/L	3.460 mg/L	20:33:05
2	K 766.490†	38171.0	36848.5	20.21 mg/L	20.21 mg/L	20:32:35
2	Li 670.784†	1995.9	1786.1	0.0490 mg/L	0.0490 mg/L	20:32:35
2	Na 589.592	91640.1	92453.3	11.13 mg/L	11.13 mg/L	20:32:35
2	Y 371.029	3432651.7	3432651.7	1.02 mg/L		20:33:45
2	Ag 328.068†	247186.6	244811.6	0.8553 mg/L	0.8553 mg/L	20:33:51
2	Al 237.313†	426675.2	418220.5	46.91 mg/L	46.91 mg/L	20:33:51
2	As 188.979†	962.5	938.5	1.285 mg/L	1.285 mg/L	20:34:11
2	B 182.528†	388.2	383.2	0.8667 mg/L	0.8667 mg/L	20:34:11
2	Ba 233.527†	382165.0	374724.8	3.124 mg/L	3.124 mg/L	20:33:51
2	Be 313.107†	2758248.4	2701047.6	0.5581 mg/L	0.5581 mg/L	20:33:45
2	Ca 315.886†	5161842.6	5057097.9	34.70 mg/L	34.70 mg/L	20:33:45
2	Cd 228.802†	33314.0	32534.0	0.7986 mg/L	0.7986 mg/L	20:34:11
2	Co 228.616†	19825.0	19606.5	0.5093 mg/L	0.5093 mg/L	20:34:11
2	Cr 267.716†	248635.6	242322.3	1.576 mg/L	1.576 mg/L	20:33:51
2	Cu 324.752†	170264.7	164946.2	0.6416 mg/L	0.6416 mg/L	20:33:51
2	Fe 234.349†	4589026.7	4496285.3	85.94 mg/L	85.94 mg/L	20:33:45
2	Fe 238.204†	9783351.5	9587160.0	82.01 mg/L	82.01 mg/L	20:33:37
2	Mg 279.077†	452288.8	442727.6	17.75 mg/L	17.75 mg/L	20:33:51
2	Mn 257.610†	1670347.2	1635159.0	1.797 mg/L	1.797 mg/L	20:33:45
2	Mo 202.031†	3837.5	3723.7	0.2452 mg/L	0.2452 mg/L	20:34:11
2	Ni 231.604†	23929.5	23422.7	0.7502 mg/L	0.7502 mg/L	20:33:51
2	P 214.914†	12876.2	12575.7	8.988 mg/L	8.988 mg/L	20:34:11
2	Pb 220.353†	5160.1	5208.7	0.5926 mg/L	0.5926 mg/L	20:34:11
2	Sb 206.836†	1547.4	1501.4	0.6933 mg/L	0.6933 mg/L	20:34:11
2	Se 196.026†	524.3	517.9	0.6595 mg/L	0.6595 mg/L	20:34:11
2	Sn 189.927†	3611.3	3349.5	0.8858 mg/L	0.8858 mg/L	20:34:11
2	Sr 407.771†	6607546.4	6469489.9	0.2923 mg/L	0.2923 mg/L	20:33:37
2	Ti 337.279†	1362852.7	1337652.2	1.688 mg/L	1.688 mg/L	20:33:45
2	Tl 190.801†	918.2	880.4	0.7623 mg/L	0.7623 mg/L	20:34:11
2	V 292.402†	319095.4	314359.7	1.239 mg/L	1.239 mg/L	20:33:51
2	Zn 213.857†	276023.7	269845.9	3.482 mg/L	3.482 mg/L	20:33:51

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**Mean Data: BF62317-SRM1**

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3434086.8	1.02 mg/L	0.001			0.06%
Ag 328.068†	244026.1	0.8526 mg/L	0.00387	0.8526 mg/L	0.00387	0.45%
Al 237.313†	416889.7	46.76 mg/L	0.212	46.76 mg/L	0.212	0.45%
As 188.979†	937.0	1.282 mg/L	0.0031	1.282 mg/L	0.0031	0.24%
B 182.528†	380.6	0.8610 mg/L	0.00806	0.8610 mg/L	0.00806	0.94%
Ba 233.527†	373432.3	3.113 mg/L	0.0152	3.113 mg/L	0.0152	0.49%
Be 313.107†	2697555.8	0.5574 mg/L	0.00102	0.5574 mg/L	0.00102	0.18%
Ca 315.886†	5054781.7	34.68 mg/L	0.023	34.68 mg/L	0.023	0.06%
Cd 228.802†	32484.2	0.7974 mg/L	0.00173	0.7974 mg/L	0.00173	0.22%
Co 228.616†	19581.2	0.5087 mg/L	0.00093	0.5087 mg/L	0.00093	0.18%
Cr 267.716†	241443.2	1.571 mg/L	0.0081	1.571 mg/L	0.0081	0.51%
Cu 324.752†	164440.0	0.6397 mg/L	0.00274	0.6397 mg/L	0.00274	0.43%
Fe 234.349†	4491437.7	85.85 mg/L	0.131	85.85 mg/L	0.131	0.15%
Fe 238.204†	9587403.1	82.01 mg/L	0.003	82.01 mg/L	0.003	0.00%
K 766.490†	36836.4	20.20 mg/L	0.009	20.20 mg/L	0.009	0.05%
Li 670.784†	1819.4	0.0500 mg/L	0.00135	0.0500 mg/L	0.00135	2.71%
Mg 279.077†	441472.4	17.70 mg/L	0.071	17.70 mg/L	0.071	0.40%
Mn 257.610†	1633364.3	1.795 mg/L	0.0028	1.795 mg/L	0.0028	0.16%
Mo 202.031†	3724.7	0.2453 mg/L	0.00010	0.2453 mg/L	0.00010	0.04%
Na 589.592	92264.8	11.11 mg/L	0.032	11.11 mg/L	0.032	0.29%
Ni 231.604†	23335.0	0.7473 mg/L	0.00397	0.7473 mg/L	0.00397	0.53%
P 214.914†	12565.1	8.980 mg/L	0.0106	8.980 mg/L	0.0106	0.12%
Pb 220.353†	5199.9	0.5916 mg/L	0.00144	0.5916 mg/L	0.00144	0.24%
Sb 206.836†	1500.4	0.6929 mg/L	0.00055	0.6929 mg/L	0.00055	0.08%
Se 196.026†	516.0	0.6571 mg/L	0.00341	0.6571 mg/L	0.00341	0.52%
Sn 189.927†	3343.0	0.8840 mg/L	0.00245	0.8840 mg/L	0.00245	0.28%
Sr 407.771†	6465155.4	0.2921 mg/L	0.00028	0.2921 mg/L	0.00028	0.09%
Ti 337.279†	1335652.7	1.686 mg/L	0.0036	1.686 mg/L	0.0036	0.21%
Tl 190.801†	882.3	0.7638 mg/L	0.00219	0.7638 mg/L	0.00219	0.29%
V 292.402†	313239.8	1.235 mg/L	0.0063	1.235 mg/L	0.0063	0.51%
Zn 213.857†	268969.3	3.471 mg/L	0.0160	3.471 mg/L	0.0160	0.46%

2	Tl 190.801†	-5.3	-24.8	0.0168 mg/L	0.0168 mg/L	20:48:45
2	V 292.402†	159329.1	159601.8	0.6151 mg/L	0.6151 mg/L	20:48:24
2	Zn 213.857†	529278.6	524106.0	6.769 mg/L	6.769 mg/L	20:48:19

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 Mean Data: 0606373-01

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3407820.2	1.01 mg/L	0.006			0.61%
Ag 328.068†	175923.2	0.6168 mg/L	0.00857	0.6168 mg/L	0.00857	1.39%
Al 237.313†	281772.7	31.31 mg/L	0.447	31.31 mg/L	0.447	1.43%
As 188.979†	54.6	0.0754 mg/L	0.00242	0.0754 mg/L	0.00242	3.21%
B 182.528†	13.4	0.0356 mg/L	0.00316	0.0356 mg/L	0.00316	8.89%
Ba 233.527†	63948.2	0.5325 mg/L	0.00722	0.5325 mg/L	0.00722	1.36%
Be 313.107†	15479.0	0.0029 mg/L	0.00008	0.0029 mg/L	0.00008	2.82%
Ca 315.886†	3824024.7	26.24 mg/L	0.177	26.24 mg/L	0.177	0.68%
Cd 228.802†	758.2	0.0194 mg/L	0.00020	0.0194 mg/L	0.00020	1.04%
Co 228.616†	1960.9	0.0477 mg/L	0.00050	0.0477 mg/L	0.00050	1.05%
Cr 267.716†	324739.7	2.114 mg/L	0.0314	2.114 mg/L	0.0314	1.49%
Cu 324.752†	2207089.9	8.402 mg/L	0.0543	8.402 mg/L	0.0543	0.65%
Fe 234.349†	6590767.1	126.0 mg/L	0.97	126.0 mg/L	0.97	0.77%
Fe 238.204†	13829740.1	118.3 mg/L	0.85	118.3 mg/L	0.85	0.72%
K 766.490†	6682.1	3.668 mg/L	0.0139	3.668 mg/L	0.0139	0.38%
Li 670.784†	1104.8	0.0294 mg/L	0.00020	0.0294 mg/L	0.00020	0.67%
Mg 279.077†	184312.9	7.353 mg/L	0.1163	7.353 mg/L	0.1163	1.58%
Mn 257.610†	1137487.3	1.249 mg/L	0.0006	1.249 mg/L	0.0006	0.05%
Mo 202.031†	302.9	0.0201 mg/L	0.00110	0.0201 mg/L	0.00110	5.48%
Na 589.592	56876.0	6.809 mg/L	0.0323	6.809 mg/L	0.0323	0.47%
Ni 231.604†	14658.6	0.4693 mg/L	0.00541	0.4693 mg/L	0.00541	1.15%
P 214.914†	15133.6	10.81 mg/L	0.122	10.81 mg/L	0.122	1.13%
Pb 220.353†	46825.1	5.286 mg/L	0.0703	5.286 mg/L	0.0703	1.33%
Sb 206.836†	114.7	0.0142 mg/L	0.00231	0.0142 mg/L	0.00231	16.27%
Se 196.026†	2.2	0.0132 mg/L	0.00529	0.0132 mg/L	0.00529	40.10%
Sn 189.927†	2115.0	0.5601 mg/L	0.00158	0.5601 mg/L	0.00158	0.28%
Sr 407.771†	4512655.1	0.2038 mg/L	0.00139	0.2038 mg/L	0.00139	0.68%
Ti 337.279†	1216768.0	1.536 mg/L	0.0015	1.536 mg/L	0.0015	0.10%
Tl 190.801†	-28.6	0.0136 mg/L	0.00443	0.0136 mg/L	0.00443	32.47%
V 292.402†	158019.1	0.6089 mg/L	0.00876	0.6089 mg/L	0.00876	1.44%
Zn 213.857†	523701.6	6.764 mg/L	0.0073	6.764 mg/L	0.0073	0.11%

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 Sequence No.: 22  
 Sample ID: 0606373-02  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 16  
 Date Collected: 6/23/2006 8:50:23 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

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 Replicate Data: 0606373-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	2939.3	2400.7	1.320 mg/L	1.320 mg/L	20:52:01
1	Li 670.784†	779.2	615.2	0.0154 mg/L	0.0154 mg/L	20:52:01
1	Na 589.592	44399.8	45213.0	5.392 mg/L	5.392 mg/L	20:52:01
1	Y 371.029	3338355.7	3338355.7	0.992 mg/L		20:52:17
1	Ag 328.068†	-1583.6	957.9	0.0032 mg/L	0.0032 mg/L	20:52:22
1	Al 237.313†	226984.6	228795.2	25.79 mg/L	25.79 mg/L	20:52:17
1	As 188.979†	19.2	14.6	0.0217 mg/L	0.0217 mg/L	20:52:42
1	B 182.528†	2.6	5.3	0.0176 mg/L	0.0176 mg/L	20:52:42
1	Ba 233.527†	9800.2	10056.0	0.0835 mg/L	0.0835 mg/L	20:52:22
1	Be 313.107†	8974.9	6842.0	0.0002 mg/L	0.0002 mg/L	20:52:22
1	Ca 315.886†	873166.8	878108.5	6.020 mg/L	6.020 mg/L	20:52:17
1	Cd 228.802†	147.9	33.4	0.0008 mg/L	0.0008 mg/L	20:52:42
1	Co 228.616†	118.4	296.1	0.0047 mg/L	0.0047 mg/L	20:52:42
1	Cr 267.716†	8098.0	6805.1	0.0445 mg/L	0.0445 mg/L	20:52:22
1	Cu 324.752†	11176.0	9339.1	0.0382 mg/L	0.0382 mg/L	20:52:22
1	Fe 234.349†	891175.3	896837.9	17.14 mg/L	17.14 mg/L	20:52:17
1	Fe 238.204†	1983567.5	1997811.7	17.09 mg/L	17.09 mg/L	20:52:17
1	Mg 279.077†	114983.1	115330.7	4.619 mg/L	4.619 mg/L	20:52:22
1	Mn 257.610†	519174.6	521312.7	0.5710 mg/L	0.5710 mg/L	20:52:17
1	Mo 202.031†	106.3	69.9	0.0048 mg/L	0.0048 mg/L	20:52:42
1	Ni 231.604†	1038.8	1017.2	0.0328 mg/L	0.0328 mg/L	20:52:42

1	P 214.914†	4793.4	4786.8	3.437 mg/L	3.437 mg/L	20:52:42
1	Pb 220.353†	107.4	259.7	0.0320 mg/L	0.0320 mg/L	20:52:42
1	Sb 206.836†	23.4	8.4	0.0025 mg/L	0.0025 mg/L	20:52:42
1	Se 196.026†	-7.3	-3.3	0.0062 mg/L	0.0062 mg/L	20:52:42
1	Sn 189.927†	226.7	38.7	0.0054 mg/L	0.0054 mg/L	20:52:42
1	Sr 407.771†	810741.7	810715.0	0.0364 mg/L	0.0364 mg/L	20:52:17
1	Ti 337.279†	1022753.5	1032647.3	1.303 mg/L	1.303 mg/L	20:52:17
1	Tl 190.801†	-5.2	-24.7	0.0084 mg/L	0.0084 mg/L	20:52:42
1	V 292.402†	5805.0	7476.8	0.0266 mg/L	0.0266 mg/L	20:52:22
1	Zn 213.857†	6813.8	6192.6	0.0794 mg/L	0.0794 mg/L	20:52:22
2	K 766.490†	2988.4	2450.2	1.347 mg/L	1.347 mg/L	20:52:07
2	Li 670.784†	806.1	642.3	0.0161 mg/L	0.0161 mg/L	20:52:07
2	Na 589.592	45149.6	45962.8	5.483 mg/L	5.483 mg/L	20:52:07
2	Y 371.029	3338268.3	3338268.3	0.992 mg/L	0.992 mg/L	20:52:50
2	Ag 328.068†	-1820.5	719.1	0.0024 mg/L	0.0024 mg/L	20:52:55
2	Al 237.313†	227092.8	228910.3	25.81 mg/L	25.81 mg/L	20:52:50
2	As 188.979†	14.9	10.3	0.0158 mg/L	0.0158 mg/L	20:53:15
2	B 182.528†	0.1	2.8	0.0120 mg/L	0.0120 mg/L	20:53:15
2	Ba 233.527†	9931.3	10188.4	0.0846 mg/L	0.0846 mg/L	20:52:55
2	Be 313.107†	9067.3	6935.3	0.0002 mg/L	0.0002 mg/L	20:52:55
2	Ca 315.886†	872467.6	877426.9	6.016 mg/L	6.016 mg/L	20:52:50
2	Cd 228.802†	162.3	47.9	0.0012 mg/L	0.0012 mg/L	20:53:15
2	Co 228.616†	121.4	299.1	0.0048 mg/L	0.0048 mg/L	20:53:15
2	Cr 267.716†	8120.5	6828.0	0.0446 mg/L	0.0446 mg/L	20:52:55
2	Cu 324.752†	11337.2	9501.9	0.0388 mg/L	0.0388 mg/L	20:52:55
2	Fe 234.349†	891057.1	896742.4	17.14 mg/L	17.14 mg/L	20:52:50
2	Fe 238.204†	1983573.7	1997870.2	17.09 mg/L	17.09 mg/L	20:52:50
2	Mg 279.077†	117048.6	117415.3	4.702 mg/L	4.702 mg/L	20:52:55
2	Mn 257.610†	518681.0	520828.9	0.5705 mg/L	0.5705 mg/L	20:52:50
2	Mo 202.031†	89.7	53.1	0.0037 mg/L	0.0037 mg/L	20:53:15
2	Ni 231.604†	1019.8	998.1	0.0322 mg/L	0.0322 mg/L	20:53:15
2	P 214.914†	4767.6	4760.9	3.418 mg/L	3.418 mg/L	20:53:15
2	Pb 220.353†	109.5	261.8	0.0322 mg/L	0.0322 mg/L	20:53:15
2	Sb 206.836†	15.3	0.3	-0.0014 mg/L	-0.0014 mg/L	20:53:15
2	Se 196.026†	-2.6	1.4	0.0121 mg/L	0.0121 mg/L	20:53:15
2	Sn 189.927†	227.9	39.9	0.0057 mg/L	0.0057 mg/L	20:53:15
2	Sr 407.771†	810103.5	810093.2	0.0364 mg/L	0.0364 mg/L	20:52:50
2	Ti 337.279†	1022787.7	1032708.8	1.303 mg/L	1.303 mg/L	20:52:50
2	Tl 190.801†	3.5	-16.0	0.0155 mg/L	0.0155 mg/L	20:53:15
2	V 292.402†	5994.0	7667.5	0.0273 mg/L	0.0273 mg/L	20:52:55
2	Zn 213.857†	6904.0	6283.8	0.0806 mg/L	0.0806 mg/L	20:52:55

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 Mean Data: 0606373-02

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3338312.0	0.992 mg/L	0.0000			0.00%
Ag 328.068†	838.5	0.0028 mg/L	0.00059	0.0028 mg/L	0.00059	20.90%
Al 237.313†	228852.8	25.80 mg/L	0.009	25.80 mg/L	0.009	0.04%
As 188.979†	12.5	0.0187 mg/L	0.00412	0.0187 mg/L	0.00412	21.99%
B 182.528†	4.1	0.0148 mg/L	0.00396	0.0148 mg/L	0.00396	26.76%
Ba 233.527†	10122.2	0.0840 mg/L	0.00078	0.0840 mg/L	0.00078	0.93%
Be 313.107†	6888.6	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	6.35%
Ca 315.886†	877767.7	6.018 mg/L	0.0033	6.018 mg/L	0.0033	0.05%
Cd 228.802†	40.7	0.0010 mg/L	0.00028	0.0010 mg/L	0.00028	27.22%
Co 228.616†	297.6	0.0048 mg/L	0.00006	0.0048 mg/L	0.00006	1.17%
Cr 267.716†	6816.6	0.0446 mg/L	0.00010	0.0446 mg/L	0.00010	0.24%
Cu 324.752†	9420.5	0.0385 mg/L	0.00044	0.0385 mg/L	0.00044	1.13%
Fe 234.349†	896790.1	17.14 mg/L	0.001	17.14 mg/L	0.001	0.01%
Fe 238.204†	1997841.0	17.09 mg/L	0.000	17.09 mg/L	0.000	0.00%
K 766.490†	2425.4	1.334 mg/L	0.0192	1.334 mg/L	0.0192	1.44%
Li 670.784†	628.8	0.0158 mg/L	0.00055	0.0158 mg/L	0.00055	3.50%
Mg 279.077†	116373.0	4.660 mg/L	0.0592	4.660 mg/L	0.0592	1.27%
Mn 257.610†	521070.8	0.5707 mg/L	0.00038	0.5707 mg/L	0.00038	0.07%
Mo 202.031†	61.5	0.0042 mg/L	0.00078	0.0042 mg/L	0.00078	18.48%
Na 589.592	45587.9	5.437 mg/L	0.0644	5.437 mg/L	0.0644	1.18%
Ni 231.604†	1007.7	0.0325 mg/L	0.00043	0.0325 mg/L	0.00043	1.33%
P 214.914†	4773.8	3.428 mg/L	0.0130	3.428 mg/L	0.0130	0.38%
Pb 220.353†	260.8	0.0321 mg/L	0.00017	0.0321 mg/L	0.00017	0.53%
Sb 206.836†	4.3	0.0005 mg/L	0.00275	0.0005 mg/L	0.00275	512.37%
Se 196.026†	-0.9	0.0092 mg/L	0.00417	0.0092 mg/L	0.00417	45.37%
Sn 189.927†	39.3	0.0055 mg/L	0.00022	0.0055 mg/L	0.00022	3.94%

Sr 407.771†	810404.1	0.0364 mg/L	0.00002	0.0364 mg/L	0.00002	0.05%
Ti 337.279†	1032678.1	1.303 mg/L	0.0001	1.303 mg/L	0.0001	0.00%
Tl 190.801†	-20.3	0.0119 mg/L	0.00505	0.0119 mg/L	0.00505	42.29%
V 292.402†	7572.2	0.0270 mg/L	0.00052	0.0270 mg/L	0.00052	1.94%
Zn 213.857†	6238.2	0.0800 mg/L	0.00084	0.0800 mg/L	0.00084	1.05%

Sequence No.: 23  
 Sample ID: 0606373-03  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 17  
 Date Collected: 6/23/2006 8:54:53 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 0606373-03

Repl#	Analyte	Net		Corrected		Calib.		Sample		Analysis Time
		Intensity	Conc. Units	Intensity	Conc. Units	Conc. Units	Conc. Units			
1	K 766.490†	7239.9	3.642 mg/L	6634.9	3.642 mg/L	3.642 mg/L	3.642 mg/L	20:56:28		
1	Li 670.784†	1560.1	0.0374 mg/L	1380.6	0.0374 mg/L	0.0374 mg/L	0.0374 mg/L	20:56:28		
1	Na 589.592	43677.6	5.304 mg/L	44490.8	5.304 mg/L	5.304 mg/L	5.304 mg/L	20:56:28		
1	Y 371.029	3384605.9	1.01 mg/L	3384605.9	1.01 mg/L	1.01 mg/L	1.01 mg/L	20:56:47		
1	Ag 328.068†	156357.9	0.5520 mg/L	157969.3	0.5520 mg/L	0.5520 mg/L	0.5520 mg/L	20:56:52		
1	Al 237.313†	274163.6	30.51 mg/L	272564.1	30.51 mg/L	30.51 mg/L	30.51 mg/L	20:56:52		
1	As 188.979†	38.1	0.0464 mg/L	33.2	0.0464 mg/L	0.0464 mg/L	0.0464 mg/L	20:57:12		
1	B 182.528†	3.5	0.0195 mg/L	6.2	0.0195 mg/L	0.0195 mg/L	0.0195 mg/L	20:57:12		
1	Ba 233.527†	43571.1	0.3622 mg/L	43488.5	0.3622 mg/L	0.3622 mg/L	0.3622 mg/L	20:56:52		
1	Be 313.107†	13997.1	0.0016 mg/L	11710.2	0.0016 mg/L	0.0016 mg/L	0.0016 mg/L	20:56:52		
1	Ca 315.886†	1165276.3	7.931 mg/L	1156433.2	7.931 mg/L	7.931 mg/L	7.931 mg/L	20:56:47		
1	Cd 228.802†	535.2	0.0106 mg/L	416.3	0.0106 mg/L	0.0106 mg/L	0.0106 mg/L	20:57:12		
1	Co 228.616†	925.9	0.0245 mg/L	1097.1	0.0245 mg/L	0.0245 mg/L	0.0245 mg/L	20:57:12		
1	Cr 267.716†	384780.6	2.477 mg/L	381105.9	2.477 mg/L	2.477 mg/L	2.477 mg/L	20:56:52		
1	Cu 324.752†	5008990.9	18.91 mg/L	4976876.9	18.91 mg/L	18.91 mg/L	18.91 mg/L	20:56:47		
1	Fe 234.349†	3677352.1	69.84 mg/L	3653949.7	69.84 mg/L	69.84 mg/L	69.84 mg/L	20:56:47		
1	Fe 238.204†	7972183.3	67.77 mg/L	7923017.4	67.77 mg/L	67.77 mg/L	67.77 mg/L	20:56:47		
1	Mg 279.077†	230736.1	9.157 mg/L	228802.6	9.157 mg/L	9.157 mg/L	9.157 mg/L	20:56:52		
1	Mn 257.610†	755555.9	0.8216 mg/L	749119.8	0.8216 mg/L	0.8216 mg/L	0.8216 mg/L	20:56:47		
1	Mo 202.031†	337.9	0.0198 mg/L	298.6	0.0198 mg/L	0.0198 mg/L	0.0198 mg/L	20:57:12		
1	Ni 231.604†	8663.3	0.2749 mg/L	8581.5	0.2749 mg/L	0.2749 mg/L	0.2749 mg/L	20:56:52		
1	P 214.914†	13961.7	9.884 mg/L	13833.8	9.884 mg/L	9.884 mg/L	9.884 mg/L	20:56:52		
1	Pb 220.353†	20369.0	2.298 mg/L	20397.8	2.298 mg/L	2.298 mg/L	2.298 mg/L	20:56:52		
1	Sb 206.836†	151.7	0.0147 mg/L	135.6	0.0147 mg/L	0.0147 mg/L	0.0147 mg/L	20:57:12		
1	Se 196.026†	-5.0	0.0092 mg/L	-0.9	0.0092 mg/L	0.0092 mg/L	0.0092 mg/L	20:57:12		
1	Sn 189.927†	4152.5	1.041 mg/L	3937.7	1.041 mg/L	1.041 mg/L	1.041 mg/L	20:57:12		
1	Sr 407.771†	1232098.3	0.0548 mg/L	1218367.4	0.0548 mg/L	0.0548 mg/L	0.0548 mg/L	20:56:47		
1	Ti 337.279†	1457913.9	1.831 mg/L	1451100.9	1.831 mg/L	1.831 mg/L	1.831 mg/L	20:56:47		
1	Tl 190.801†	9.2	0.0228 mg/L	-10.4	0.0228 mg/L	0.0228 mg/L	0.0228 mg/L	20:57:12		
1	V 292.402†	41511.8	0.1581 mg/L	42888.4	0.1581 mg/L	0.1581 mg/L	0.1581 mg/L	20:56:52		
1	Zn 213.857†	995953.1	12.79 mg/L	989276.3	12.79 mg/L	12.79 mg/L	12.79 mg/L	20:56:47		
2	K 766.490†	7069.6	3.535 mg/L	6440.1	3.535 mg/L	3.535 mg/L	3.535 mg/L	20:56:34		
2	Li 670.784†	1530.1	0.0363 mg/L	1345.4	0.0363 mg/L	0.0363 mg/L	0.0363 mg/L	20:56:34		
2	Na 589.592	43089.7	5.232 mg/L	43902.9	5.232 mg/L	5.232 mg/L	5.232 mg/L	20:56:34		
2	Y 371.029	3396905.3	1.01 mg/L	3396905.3	1.01 mg/L	1.01 mg/L	1.01 mg/L	20:57:22		
2	Ag 328.068†	155397.2	0.5467 mg/L	156455.1	0.5467 mg/L	0.5467 mg/L	0.5467 mg/L	20:57:27		
2	Al 237.313†	271746.6	30.13 mg/L	269183.8	30.13 mg/L	30.13 mg/L	30.13 mg/L	20:57:27		
2	As 188.979†	35.2	0.0423 mg/L	30.1	0.0423 mg/L	0.0423 mg/L	0.0423 mg/L	20:57:48		
2	B 182.528†	4.9	0.0227 mg/L	7.6	0.0227 mg/L	0.0227 mg/L	0.0227 mg/L	20:57:48		
2	Ba 233.527†	43201.7	0.3578 mg/L	42965.7	0.3578 mg/L	0.3578 mg/L	0.3578 mg/L	20:57:27		
2	Be 313.107†	13859.4	0.0015 mg/L	11523.5	0.0015 mg/L	0.0015 mg/L	0.0015 mg/L	20:57:27		
2	Ca 315.886†	1167609.1	7.918 mg/L	1154549.8	7.918 mg/L	7.918 mg/L	7.918 mg/L	20:57:22		
2	Cd 228.802†	542.5	0.0108 mg/L	421.6	0.0108 mg/L	0.0108 mg/L	0.0108 mg/L	20:57:48		
2	Co 228.616†	933.6	0.0246 mg/L	1101.5	0.0246 mg/L	0.0246 mg/L	0.0246 mg/L	20:57:48		
2	Cr 267.716†	382066.5	2.451 mg/L	377033.0	2.451 mg/L	2.451 mg/L	2.451 mg/L	20:57:27		
2	Cu 324.752†	5002318.9	18.81 mg/L	4952242.1	18.81 mg/L	18.81 mg/L	18.81 mg/L	20:57:22		
2	Fe 234.349†	3689641.5	69.82 mg/L	3652886.1	69.82 mg/L	69.82 mg/L	69.82 mg/L	20:57:22		
2	Fe 238.204†	7994123.0	67.71 mg/L	7916054.4	67.71 mg/L	67.71 mg/L	67.71 mg/L	20:57:22		
2	Mg 279.077†	228485.9	9.034 mg/L	225743.7	9.034 mg/L	9.034 mg/L	9.034 mg/L	20:57:27		
2	Mn 257.610†	757976.2	0.8213 mg/L	748797.6	0.8213 mg/L	0.8213 mg/L	0.8213 mg/L	20:57:22		
2	Mo 202.031†	320.3	0.0186 mg/L	279.9	0.0186 mg/L	0.0186 mg/L	0.0186 mg/L	20:57:48		
2	Ni 231.604†	8656.2	0.2736 mg/L	8543.3	0.2736 mg/L	0.2736 mg/L	0.2736 mg/L	20:57:27		
2	P 214.914†	13242.7	9.341 mg/L	13071.5	9.341 mg/L	9.341 mg/L	9.341 mg/L	20:57:27		
2	Pb 220.353†	20142.1	2.265 mg/L	20099.7	2.265 mg/L	2.265 mg/L	2.265 mg/L	20:57:27		
2	Sb 206.836†	144.4	0.0115 mg/L	127.8	0.0115 mg/L	0.0115 mg/L	0.0115 mg/L	20:57:48		

2	Se 196.026†	-2.3	1.8	0.0126 mg/L	0.0126 mg/L	20:57:48
2	Sn 189.927†	4154.4	3924.6	1.038 mg/L	1.038 mg/L	20:57:48
2	Sr 407.771†	1236156.3	1217952.1	0.0548 mg/L	0.0548 mg/L	20:57:22
2	Ti 337.279†	1463167.6	1451057.1	1.831 mg/L	1.831 mg/L	20:57:22
2	Tl 190.801†	-11.6	-31.0	0.0059 mg/L	0.0059 mg/L	20:57:48
2	V 292.402†	41152.0	42382.8	0.1561 mg/L	0.1561 mg/L	20:57:27
2	Zn 213.857†	997685.6	987407.7	12.77 mg/L	12.77 mg/L	20:57:22

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**Mean Data: 0606373-03**

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3390755.6	1.01 mg/L		0.003			0.26%
Ag 328.068†	157212.2	0.5494 mg/L	✓	0.00373	0.5494 mg/L	0.00373	0.68%
Al 237.313†	270874.0	30.32 mg/L		0.270	30.32 mg/L	0.270	0.89%
As 188.979†	31.6	0.0443 mg/L		0.00293	0.0443 mg/L	0.00293	6.62%
B 182.528†	6.9	0.0211 mg/L		0.00226	0.0211 mg/L	0.00226	10.70%
Ba 233.527†	43227.1	0.3600 mg/L	✓	0.00308	0.3600 mg/L	0.00308	0.86%
Be 313.107†	11616.9	0.0015 mg/L	✓	0.00003	0.0015 mg/L	0.00003	2.08%
Ca 315.886†	1155491.5	7.924 mg/L	✓	0.0091	7.924 mg/L	0.0091	0.12%
Cd 228.802†	418.9	0.0107 mg/L	✓	0.00011	0.0107 mg/L	0.00011	1.02%
Co 228.616†	1099.3	0.0246 mg/L		0.00008	0.0246 mg/L	0.00008	0.33%
Cr 267.716†	379069.4	2.464 mg/L	✓	0.0187	2.464 mg/L	0.0187	0.76%
Cu 324.752†	4964559.5	18.86 mg/L	✓	0.066	18.86 mg/L	0.066	0.35%
Fe 234.349†	3653417.9	69.83 mg/L		0.014	69.83 mg/L	0.014	0.02%
Fe 238.204†	7919535.9	67.74 mg/L		0.042	67.74 mg/L	0.042	0.06%
K 766.490†	6537.5	3.588 mg/L		0.0755	3.588 mg/L	0.0755	2.10%
Li 670.784†	1363.0	0.0368 mg/L		0.00072	0.0368 mg/L	0.00072	1.94%
Mg 279.077†	227273.2	9.095 mg/L		0.0868	9.095 mg/L	0.0868	0.95%
Mn 257.610†	748958.7	0.8214 mg/L		0.00025	0.8214 mg/L	0.00025	0.03%
Mo 202.031†	289.2	0.0192 mg/L		0.00087	0.0192 mg/L	0.00087	4.53%
Na 589.592	44196.8	5.268 mg/L		0.0505	5.268 mg/L	0.0505	0.96%
Ni 231.604†	8562.4	0.2743 mg/L	✓	0.00086	0.2743 mg/L	0.00086	0.32%
P 214.914†	13452.6	9.613 mg/L		0.3841	9.613 mg/L	0.3841	4.00%
Pb 220.353†	20248.8	2.282 mg/L	✓	0.0238	2.282 mg/L	0.0238	1.05%
Sb 206.836†	131.7	0.0131 mg/L		0.00227	0.0131 mg/L	0.00227	17.23%
Se 196.026†	0.4	0.0109 mg/L		0.00235	0.0109 mg/L	0.00235	21.56%
Sn 189.927†	3931.1	1.039 mg/L		0.0024	1.039 mg/L	0.0024	0.24%
Sr 407.771†	1218159.8	0.0548 mg/L		0.00001	0.0548 mg/L	0.00001	0.02%
Ti 337.279†	1451079.0	1.831 mg/L		0.0000	1.831 mg/L	0.0000	0.00%
Tl 190.801†	-20.7	0.0143 mg/L		0.01194	0.0143 mg/L	0.01194	83.39%
V 292.402†	42635.6	0.1571 mg/L	✓	0.00142	0.1571 mg/L	0.00142	0.90%
Zn 213.857†	988342.0	12.78 mg/L	✓	0.017	12.78 mg/L	0.017	0.13%

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**Sequence No.: 24**  
**Sample ID: 0606373-04**  
**Analyst:**  
**Initial Sample Wt:**  
**Dilution:**

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**Autosampler Location: 18**  
**Date Collected: 6/23/2006 8:59:27 PM**  
**Data Type: Original**  
**Initial Sample Vol:**  
**Sample Prep Vol:**

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**Replicate Data: 0606373-04**

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	1570.1	932.3	0.5151 mg/L	0.5151 mg/L	21:01:02
1	Li 670.784†	341.8	155.2	0.0021 mg/L	0.0021 mg/L	21:01:02
1	Na 589.592	42501.2	43314.4	5.161 mg/L	5.161 mg/L	21:01:02
1	Y 371.029	3536273.0	3536273.0	1.05 mg/L		21:01:17
1	Ag 328.068†	5944.7	8209.3	0.0282 mg/L	0.0282 mg/L	21:01:22
1	Al 237.313†	106844.5	101698.8	11.46 mg/L	11.46 mg/L	21:01:22
1	As 188.979†	29.7	23.5	0.0342 mg/L	0.0342 mg/L	21:01:42
1	B 182.528†	-3.7	-0.8	0.0038 mg/L	0.0038 mg/L	21:01:42
1	Ba 233.527†	10566.1	10232.0	0.0849 mg/L	0.0849 mg/L	21:01:22
1	Be 313.107†	9250.4	6597.8	0.0006 mg/L	0.0006 mg/L	21:01:22
1	Ca 315.886†	850295.8	807102.7	5.534 mg/L	5.534 mg/L	21:01:17
1	Cd 228.802†	249.7	121.8	0.0029 mg/L	0.0029 mg/L	21:01:42
1	Co 228.616†	242.9	408.0	0.0085 mg/L	0.0085 mg/L	21:01:42
1	Cr 267.716†	15336.0	13234.2	0.0858 mg/L	0.0858 mg/L	21:01:22
1	Cu 324.752†	80267.5	74438.4	0.2837 mg/L	0.2837 mg/L	21:01:17
1	Fe 234.349†	542251.7	514628.9	9.833 mg/L	9.833 mg/L	21:01:17
1	Fe 238.204†	1214167.9	1153973.8	9.867 mg/L	9.867 mg/L	21:01:17

1	Mg 279.077†	38509.6	36093.0	1.439 mg/L	1.439 mg/L	21:01:22
1	Mn 257.610†	474494.5	449524.6	0.4920 mg/L	0.4920 mg/L	21:01:17
1	Mo 202.031†	104.3	61.9	0.0042 mg/L	0.0042 mg/L	21:01:42
1	Ni 231.604†	2009.7	1882.3	0.0605 mg/L	0.0605 mg/L	21:01:22
1	P 214.914†	4834.6	4555.6	3.272 mg/L	3.272 mg/L	21:01:42
1	Pb 220.353†	1631.1	1703.2	0.1924 mg/L	0.1924 mg/L	21:01:42
1	Sb 206.836†	12.8	-3.0	-0.0032 mg/L	-0.0032 mg/L	21:01:42
1	Se 196.026†	-4.9	-0.6	0.0097 mg/L	0.0097 mg/L	21:01:42
1	Sn 189.927†	291.8	87.8	0.0177 mg/L	0.0177 mg/L	21:01:42
1	Sr 407.771†	867124.2	818627.2	0.0368 mg/L	0.0368 mg/L	21:01:17
1	Ti 337.279†	743204.7	709016.3	0.8951 mg/L	0.8951 mg/L	21:01:17
1	Tl 190.801†	-0.2	-19.7	0.0117 mg/L	0.0117 mg/L	21:01:42
1	V 292.402†	15271.1	16154.9	0.0625 mg/L	0.0625 mg/L	21:01:22
1	Zn 213.857†	30158.2	28016.9	0.3622 mg/L	0.3622 mg/L	21:01:22
2	K 766.490†	1555.1	938.0	0.5182 mg/L	0.5182 mg/L	21:01:07
2	Li 670.784†	322.9	141.3	0.0017 mg/L	0.0017 mg/L	21:01:07
2	Na 589.592	42681.1	43494.3	5.183 mg/L	5.183 mg/L	21:01:07
2	Y 371.029	3489287.8	3489287.8	1.04 mg/L	1.04 mg/L	21:01:50
2	Ag 328.068†	5901.3	8243.6	0.0283 mg/L	0.0283 mg/L	21:01:55
2	Al 237.313†	108351.8	104520.7	11.78 mg/L	11.78 mg/L	21:01:55
2	As 188.979†	27.6	21.9	0.0321 mg/L	0.0321 mg/L	21:02:15
2	B 182.528†	-3.2	-0.4	0.0048 mg/L	0.0048 mg/L	21:02:15
2	Ba 233.527†	10688.9	10485.6	0.0870 mg/L	0.0870 mg/L	21:01:55
2	Be 313.107†	9229.3	6695.9	0.0006 mg/L	0.0006 mg/L	21:01:55
2	Ca 315.886†	838606.5	806725.0	5.531 mg/L	5.531 mg/L	21:01:50
2	Cd 228.802†	239.1	114.8	0.0027 mg/L	0.0027 mg/L	21:02:15
2	Co 228.616†	268.7	435.9	0.0093 mg/L	0.0093 mg/L	21:02:15
2	Cr 267.716†	15670.1	13752.8	0.0892 mg/L	0.0892 mg/L	21:01:55
2	Cu 324.752†	79653.8	74875.0	0.2854 mg/L	0.2854 mg/L	21:01:50
2	Fe 234.349†	535172.4	514749.8	9.835 mg/L	9.835 mg/L	21:01:50
2	Fe 238.204†	1197382.1	1153343.7	9.861 mg/L	9.861 mg/L	21:01:50
2	Mg 279.077†	39104.7	37160.2	1.482 mg/L	1.482 mg/L	21:01:55
2	Mn 257.610†	468174.2	449509.2	0.4920 mg/L	0.4920 mg/L	21:01:50
2	Mo 202.031†	108.1	66.9	0.0046 mg/L	0.0046 mg/L	21:02:15
2	Ni 231.604†	2007.9	1906.3	0.0613 mg/L	0.0613 mg/L	21:01:55
2	P 214.914†	4881.5	4662.7	3.348 mg/L	3.348 mg/L	21:02:15
2	Pb 220.353†	1645.4	1737.9	0.1964 mg/L	0.1964 mg/L	21:02:15
2	Sb 206.836†	18.2	2.4	-0.0007 mg/L	-0.0007 mg/L	21:02:15
2	Se 196.026†	-6.9	-2.6	0.0072 mg/L	0.0072 mg/L	21:02:15
2	Sn 189.927†	287.4	87.2	0.0175 mg/L	0.0175 mg/L	21:02:15
2	Sr 407.771†	856189.3	819192.5	0.0368 mg/L	0.0368 mg/L	21:01:50
2	Ti 337.279†	734231.0	709884.9	0.8962 mg/L	0.8962 mg/L	21:01:50
2	Tl 190.801†	2.3	-17.3	0.0137 mg/L	0.0137 mg/L	21:02:15
2	V 292.402†	15432.2	16505.8	0.0639 mg/L	0.0639 mg/L	21:01:55
2	Zn 213.857†	30488.7	28721.8	0.3713 mg/L	0.3713 mg/L	21:01:55

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Mean Data: 0606373-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3512780.4	1.04 mg/L		0.010			0.95%
Ag 328.068†	8226.4	0.0282 mg/L		0.00008	0.0282 mg/L	0.00008	0.30%
Al 237.313†	103109.8	11.62 mg/L		0.226	11.62 mg/L	0.226	1.94%
As 188.979†	22.7	0.0332 mg/L		0.00154	0.0332 mg/L	0.00154	4.64%
B 182.528†	-0.6	0.0043 mg/L		0.00072	0.0043 mg/L	0.00072	16.89%
Ba 233.527†	10358.8	0.0860 mg/L		0.00150	0.0860 mg/L	0.00150	1.74%
Be 313.107†	6646.9	0.0006 mg/L		0.00001	0.0006 mg/L	0.00001	2.42%
Ca 315.886†	806913.8	5.532 mg/L		0.0018	5.532 mg/L	0.0018	0.03%
Cd 228.802†	118.3	0.0028 mg/L		0.00011	0.0028 mg/L	0.00011	3.94%
Co 228.616†	421.9	0.0089 mg/L		0.00052	0.0089 mg/L	0.00052	5.81%
Cr 267.716†	13493.5	0.0875 mg/L		0.00238	0.0875 mg/L	0.00238	2.72%
Cu 324.752†	74656.7	0.2845 mg/L		0.00117	0.2845 mg/L	0.00117	0.41%
Fe 234.349†	514689.4	9.834 mg/L		0.0016	9.834 mg/L	0.0016	0.02%
Fe 238.204†	1153658.8	9.864 mg/L		0.0038	9.864 mg/L	0.0038	0.04%
K 766.490†	935.1	0.5167 mg/L		0.00221	0.5167 mg/L	0.00221	0.43%
Li 670.784†	148.2	0.0019 mg/L		0.00028	0.0019 mg/L	0.00028	14.53%
Mg 279.077†	36626.6	1.460 mg/L		0.0303	1.460 mg/L	0.0303	2.07%
Mn 257.610†	449516.9	0.4920 mg/L		0.00001	0.4920 mg/L	0.00001	0.00%
Mo 202.031†	64.4	0.0044 mg/L		0.00023	0.0044 mg/L	0.00023	5.25%
Na 589.592	43404.4	5.172 mg/L		0.0155	5.172 mg/L	0.0155	0.30%
Ni 231.604†	1894.3	0.0609 mg/L		0.00054	0.0609 mg/L	0.00054	0.89%
P 214.914†	4609.2	3.310 mg/L		0.0540	3.310 mg/L	0.0540	1.63%

Pb 220.353†	1720.6	0.1944 mg/L	0.00281	0.1944 mg/L	0.00281	1.45%
Sb 206.836†	-0.3	-0.0020 mg/L	0.00179	-0.0020 mg/L	0.00179	91.48%
Se 196.026†	-1.6	0.0084 mg/L	0.00177	0.0084 mg/L	0.00177	21.10%
Sn 189.927†	87.5	0.0176 mg/L	0.00011	0.0176 mg/L	0.00011	0.60%
Sr 407.771†	818909.9	0.0368 mg/L	0.00002	0.0368 mg/L	0.00002	0.05%
Ti 337.279†	709450.6	0.8956 mg/L	0.00077	0.8956 mg/L	0.00077	0.09%
Tl 190.801†	-18.5	0.0127 mg/L	0.00140	0.0127 mg/L	0.00140	11.04%
V 292.402†	16330.4	0.0632 mg/L	0.00099	0.0632 mg/L	0.00099	1.56%
Zn 213.857†	28369.3	0.3667 mg/L	0.00645	0.3667 mg/L	0.00645	1.76%

Sequence No.: 25

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/23/2006 9:03:55 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	K 766.490†	45128.2	45281.3	24.83	mg/L	24.83	mg/L	21:05:31
1	Li 670.784†	17628.5	17737.6	0.5073	mg/L	0.5073	mg/L	21:05:31
1	Na 589.592	204207.4	205020.6	24.81	mg/L	24.81	mg/L	21:05:31
1	Y 371.029	3311772.8	3311772.8	0.984	mg/L			21:05:45
1	Ag 328.068†	67968.0	71597.9	0.2489	mg/L	0.2489	mg/L	21:05:51
1	Al 237.313†	21512.7	21906.3	2.470	mg/L	2.470	mg/L	21:05:51
1	As 188.979†	361.6	362.6	0.4982	mg/L	0.4982	mg/L	21:06:11
1	B 182.528†	210.1	216.1	0.4913	mg/L	0.4913	mg/L	21:06:11
1	Ba 233.527†	58392.5	59496.9	0.4957	mg/L	0.4957	mg/L	21:05:51
1	Be 313.107†	236539.7	238082.3	0.0490	mg/L	0.0490	mg/L	21:05:51
1	Ca 315.886†	710882.9	720318.2	4.940	mg/L	4.940	mg/L	21:05:45
1	Cd 228.802†	9938.8	9980.5	0.2460	mg/L	0.2460	mg/L	21:06:11
1	Co 228.616†	18354.6	18822.0	0.4914	mg/L	0.4914	mg/L	21:05:51
1	Cr 267.716†	76686.9	76545.5	0.4961	mg/L	0.4961	mg/L	21:05:51
1	Cu 324.752†	132222.7	132392.6	0.5019	mg/L	0.5019	mg/L	21:05:51
1	Fe 234.349†	129421.3	130232.3	2.480	mg/L	2.480	mg/L	21:05:51
1	Fe 238.204†	287508.6	290945.1	2.484	mg/L	2.484	mg/L	21:05:51
1	Mg 279.077†	122285.6	123678.9	4.959	mg/L	4.959	mg/L	21:05:51
1	Mn 257.610†	447096.0	452292.5	0.4951	mg/L	0.4951	mg/L	21:05:45
1	Mo 202.031†	7391.2	7470.9	0.4918	mg/L	0.4918	mg/L	21:06:11
1	Ni 231.604†	15428.0	15642.6	0.5013	mg/L	0.5013	mg/L	21:05:51
1	P 214.914†	6742.7	6805.7	4.876	mg/L	4.876	mg/L	21:06:11
1	Pb 220.353†	4159.7	4377.0	0.4940	mg/L	0.4940	mg/L	21:06:11
1	Sb 206.836†	1008.9	1009.7	0.4758	mg/L	0.4758	mg/L	21:06:11
1	Se 196.026†	758.1	774.2	0.9807	mg/L	0.9807	mg/L	21:06:11
1	Sn 189.927†	1970.4	1811.8	0.4738	mg/L	0.4738	mg/L	21:06:11
1	Sr 407.771†	1095022.5	1106054.6	0.0498	mg/L	0.0498	mg/L	21:05:45
1	Ti 337.279†	383986.9	392040.6	0.4952	mg/L	0.4952	mg/L	21:05:51
1	Tl 190.801†	625.5	615.9	0.5285	mg/L	0.5285	mg/L	21:06:11
1	V 292.402†	121100.1	124644.3	0.5030	mg/L	0.5030	mg/L	21:05:51
1	Zn 213.857†	38286.4	38218.6	0.4925	mg/L	0.4925	mg/L	21:05:51
2	K 766.490†	45394.4	45343.3	24.86	mg/L	24.86	mg/L	21:05:36
2	Li 670.784†	17687.8	17716.7	0.5067	mg/L	0.5067	mg/L	21:05:36
2	Na 589.592	202785.9	203599.1	24.63	mg/L	24.63	mg/L	21:05:36
2	Y 371.029	3326804.0	3326804.0	0.989	mg/L			21:06:17
2	Ag 328.068†	68128.3	71448.1	0.2484	mg/L	0.2484	mg/L	21:06:23
2	Al 237.313†	21473.0	21767.5	2.455	mg/L	2.455	mg/L	21:06:23
2	As 188.979†	358.1	357.4	0.4912	mg/L	0.4912	mg/L	21:06:43
2	B 182.528†	209.4	214.4	0.4875	mg/L	0.4875	mg/L	21:06:43
2	Ba 233.527†	58536.7	59374.8	0.4947	mg/L	0.4947	mg/L	21:06:23
2	Be 313.107†	236813.0	237273.0	0.0488	mg/L	0.0488	mg/L	21:06:23
2	Ca 315.886†	714267.6	720478.2	4.941	mg/L	4.941	mg/L	21:06:17
2	Cd 228.802†	9888.5	9884.0	0.2436	mg/L	0.2436	mg/L	21:06:43
2	Co 228.616†	18396.7	18780.4	0.4903	mg/L	0.4903	mg/L	21:06:23
2	Cr 267.716†	76817.5	76325.5	0.4947	mg/L	0.4947	mg/L	21:06:23
2	Cu 324.752†	132710.6	132279.2	0.5015	mg/L	0.5015	mg/L	21:06:23
2	Fe 234.349†	129453.2	129670.5	2.469	mg/L	2.469	mg/L	21:06:23
2	Fe 238.204†	288205.1	290329.9	2.479	mg/L	2.479	mg/L	21:06:23
2	Mg 279.077†	122737.5	123574.6	4.955	mg/L	4.955	mg/L	21:06:23
2	Mn 257.610†	449732.2	452906.2	0.4958	mg/L	0.4958	mg/L	21:06:17
2	Mo 202.031†	7337.2	7382.4	0.4860	mg/L	0.4860	mg/L	21:06:43

2	Ni 231.604†	15560.4	15705.7	0.5033 mg/L	0.5033 mg/L	21:06:23
2	P 214.914†	6691.1	6722.6	4.816 mg/L	4.816 mg/L	21:06:43
2	Pb 220.353†	4135.9	4334.0	0.4891 mg/L	0.4891 mg/L	21:06:43
2	Sb 206.836†	1002.2	998.2	0.4703 mg/L	0.4703 mg/L	21:06:43
2	Se 196.026†	747.4	759.9	0.9628 mg/L	0.9628 mg/L	21:06:43
2	Sn 189.927†	1969.3	1801.7	0.4711 mg/L	0.4711 mg/L	21:06:43
2	Sr 407.771†	1100174.6	1106238.8	0.0498 mg/L	0.0498 mg/L	21:06:17
2	Ti 337.279†	385070.9	391374.4	0.4944 mg/L	0.4944 mg/L	21:06:23
2	Tl 190.801†	619.8	607.3	0.5215 mg/L	0.5215 mg/L	21:06:43
2	V 292.402†	121523.2	124516.3	0.5024 mg/L	0.5024 mg/L	21:06:23
2	Zn 213.857†	38419.9	38177.9	0.4920 mg/L	0.4920 mg/L	21:06:23

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3319288.4	0.987 mg/L	0.0032			0.32%
Ag 328.068†	71523.0	0.2487 mg/L	0.00037	0.2487 mg/L	0.00037	0.15%
QC value within limits for Ag 328.068		Recovery = 99.46%				
Al 237.313†	21836.9	2.463 mg/L	0.0111	2.463 mg/L	0.0111	0.45%
QC value within limits for Al 237.313		Recovery = 98.51%				
As 188.979†	360.0	0.4947 mg/L	0.00499	0.4947 mg/L	0.00499	1.01%
QC value within limits for As 188.979		Recovery = 98.94%				
B 182.528†	215.3	0.4894 mg/L	0.00271	0.4894 mg/L	0.00271	0.55%
QC value within limits for B 182.528		Recovery = 97.88%				
Ba 233.527†	59435.8	0.4952 mg/L	0.00072	0.4952 mg/L	0.00072	0.15%
QC value within limits for Ba 233.527		Recovery = 99.04%				
Be 313.107†	237677.6	0.0489 mg/L	0.00012	0.0489 mg/L	0.00012	0.24%
QC value within limits for Be 313.107		Recovery = 97.75%				
Ca 315.886†	720398.2	4.941 mg/L	0.0008	4.941 mg/L	0.0008	0.02%
QC value within limits for Ca 315.886		Recovery = 98.82%				
Cd 228.802†	9932.3	0.2448 mg/L	0.00166	0.2448 mg/L	0.00166	0.68%
QC value within limits for Cd 228.802		Recovery = 97.92%				
Co 228.616†	18801.2	0.4909 mg/L	0.00077	0.4909 mg/L	0.00077	0.16%
QC value within limits for Co 228.616		Recovery = 98.17%				
Cr 267.716†	76435.5	0.4954 mg/L	0.00101	0.4954 mg/L	0.00101	0.20%
QC value within limits for Cr 267.716		Recovery = 99.09%				
Cu 324.752†	132335.9	0.5017 mg/L	0.00031	0.5017 mg/L	0.00031	0.06%
QC value within limits for Cu 324.752		Recovery = 100.34%				
Fe 234.349†	129951.4	2.475 mg/L	0.0076	2.475 mg/L	0.0076	0.31%
QC value within limits for Fe 234.349		Recovery = 98.99%				
Fe 238.204†	290637.5	2.482 mg/L	0.0037	2.482 mg/L	0.0037	0.15%
QC value within limits for Fe 238.204		Recovery = 99.26%				
K 766.490†	45312.3	24.85 mg/L	0.024	24.85 mg/L	0.024	0.10%
QC value within limits for K 766.490		Recovery = 99.39%				
Li 670.784†	17727.1	0.5070 mg/L	0.00043	0.5070 mg/L	0.00043	0.08%
QC value within limits for Li 670.784		Recovery = 101.39%				
Mg 279.077†	123626.8	4.957 mg/L	0.0030	4.957 mg/L	0.0030	0.06%
QC value within limits for Mg 279.077		Recovery = 99.13%				
Mn 257.610†	452599.4	0.4955 mg/L	0.00048	0.4955 mg/L	0.00048	0.10%
QC value within limits for Mn 257.610		Recovery = 99.09%				
Mo 202.031†	7426.7	0.4889 mg/L	0.00412	0.4889 mg/L	0.00412	0.84%
QC value within limits for Mo 202.031		Recovery = 97.78%				
Na 589.592	204309.9	24.72 mg/L	0.122	24.72 mg/L	0.122	0.49%
QC value within limits for Na 589.592		Recovery = 98.88%				
Ni 231.604†	15674.2	0.5023 mg/L	0.00143	0.5023 mg/L	0.00143	0.28%
QC value within limits for Ni 231.604		Recovery = 100.47%				
P 214.914†	6764.1	4.846 mg/L	0.0419	4.846 mg/L	0.0419	0.86%
QC value within limits for P 214.914		Recovery = 96.92%				
Pb 220.353†	4355.5	0.4915 mg/L	0.00345	0.4915 mg/L	0.00345	0.70%
QC value within limits for Pb 220.353		Recovery = 98.30%				
Sb 206.836†	1004.0	0.4731 mg/L	0.00385	0.4731 mg/L	0.00385	0.81%
QC value within limits for Sb 206.836		Recovery = 94.61%				
Se 196.026†	767.0	0.9718 mg/L	0.01269	0.9718 mg/L	0.01269	1.31%
QC value within limits for Se 196.026		Recovery = 97.18%				
Sn 189.927†	1806.7	0.4724 mg/L	0.00190	0.4724 mg/L	0.00190	0.40%
QC value within limits for Sn 189.927		Recovery = 94.48%				
Sr 407.771†	1106146.7	0.0498 mg/L	0.00001	0.0498 mg/L	0.00001	0.01%
QC value within limits for Sr 407.771		Recovery = 99.55%				
Ti 337.279†	391707.5	0.4948 mg/L	0.00059	0.4948 mg/L	0.00059	0.12%
QC value within limits for Ti 337.279		Recovery = 98.96%				
Tl 190.801†	611.6	0.5250 mg/L	0.00495	0.5250 mg/L	0.00495	0.94%



QC value within limits for Tl 190.801 Recovery = 105.01%  
 V 292.402† 124580.3 0.5027 mg/L 0.00043 0.5027 mg/L 0.00043 0.08%  
 QC value within limits for V 292.402 Recovery = 100.53%  
 Zn 213.857† 38198.3 0.4923 mg/L 0.00038 0.4923 mg/L 0.00038 0.08%  
 QC value within limits for Zn 213.857 Recovery = 98.45%  
 All analyte(s) passed QC.

Sequence No.: 26

Sample ID: ICCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 6/23/2006 9:08:22 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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 Replicate Data: ICCB

Repl#	Analyte	Net		Corrected		Calib.		Sample		Analysis Time
		Intensity	Intensity	Intensity	Intensity	Conc. Units	Conc. Units	Conc. Units	Conc. Units	
1	K 766.490†	578.8	14.6	0.0120	mg/L	0.0120	mg/L			21:09:55
1	Li 670.784†	158.2	-12.6	-0.0027	mg/L	-0.0027	mg/L			21:09:55
1	Na 589.592	-705.6	107.6	-0.0885	mg/L	-0.0885	mg/L			21:09:55
1	Y 371.029	3380077.9	3380077.9	1.00	mg/L					21:10:08
1	Ag 328.068†	-1916.6	646.2	0.0015	mg/L	0.0015	mg/L			21:10:13
1	Al 237.313†	-30.4	22.8	0.0054	mg/L	0.0054	mg/L			21:10:34
1	As 188.979†	8.3	3.6	0.0079	mg/L	0.0079	mg/L			21:10:34
1	B 182.528†	-1.1	1.6	0.0092	mg/L	0.0092	mg/L			21:10:34
1	Ba 233.527†	-179.9	0.9	-0.0004	mg/L	-0.0004	mg/L			21:10:34
1	Be 313.107†	2352.1	138.6	0.0002	mg/L	0.0002	mg/L			21:10:13
1	Ca 315.886†	1492.4	-334.3	-0.0064	mg/L	-0.0064	mg/L			21:10:13
1	Cd 228.802†	123.7	7.5	0.0001	mg/L	0.0001	mg/L			21:10:34
1	Co 228.616†	-179.6	-2.0	-0.0003	mg/L	-0.0003	mg/L			21:10:34
1	Cr 267.716†	1338.9	-23.0	-0.0005	mg/L	-0.0005	mg/L			21:10:13
1	Cu 324.752†	2648.5	712.6	0.0013	mg/L	0.0013	mg/L			21:10:13
1	Fe 234.349†	1348.1	103.7	-0.0019	mg/L	-0.0019	mg/L			21:10:34
1	Fe 238.204†	1289.1	167.6	-0.0039	mg/L	-0.0039	mg/L			21:10:34
1	Mg 279.077†	499.8	-45.3	-0.0132	mg/L	-0.0132	mg/L			21:10:13
1	Mn 257.610†	1845.6	-45.2	-0.0026	mg/L	-0.0026	mg/L			21:10:13
1	Mo 202.031†	47.9	10.4	0.0008	mg/L	0.0008	mg/L			21:10:34
1	Ni 231.604†	34.8	5.0	0.0005	mg/L	0.0005	mg/L			21:10:34
1	P 214.914†	43.4	-0.6	0.0250	mg/L	0.0250	mg/L			21:10:34
1	Pb 220.353†	-151.3	0.9	-0.0016	mg/L	-0.0016	mg/L			21:10:34
1	Sb 206.836†	9.8	-5.5	-0.0019	mg/L	-0.0019	mg/L			21:10:34
1	Se 196.026†	-8.1	-4.0	0.0054	mg/L	0.0054	mg/L			21:10:34
1	Sn 189.927†	140.3	-50.2	-0.0202	mg/L	-0.0202	mg/L			21:10:34
1	Sr 407.771†	6400.3	65.6	-0.0002	mg/L	-0.0002	mg/L			21:10:08
1	Ti 337.279†	-2161.9	-177.5	0.0005	mg/L	0.0005	mg/L			21:10:13
1	Tl 190.801†	-1.8	-21.3	0.0038	mg/L	0.0038	mg/L			21:10:34
1	V 292.402†	-1674.9	-40.2	0.0006	mg/L	0.0006	mg/L			21:10:13
1	Zn 213.857†	655.8	-21.2	0.0002	mg/L	0.0002	mg/L			21:10:34
2	K 766.490†	612.3	53.8	0.0334	mg/L	0.0334	mg/L			21:10:00
2	Li 670.784†	158.6	-10.6	-0.0026	mg/L	-0.0026	mg/L			21:10:00
2	Na 589.592	-710.6	102.7	-0.0891	mg/L	-0.0891	mg/L			21:10:00
2	Y 371.029	3348169.9	3348169.9	0.995	mg/L					21:10:39
2	Ag 328.068†	-2076.4	467.4	0.0008	mg/L	0.0008	mg/L			21:10:45
2	Al 237.313†	-47.9	5.0	0.0034	mg/L	0.0034	mg/L			21:11:05
2	As 188.979†	6.9	2.2	0.0060	mg/L	0.0060	mg/L			21:11:05
2	B 182.528†	0.4	3.1	0.0126	mg/L	0.0126	mg/L			21:11:05
2	Ba 233.527†	-159.9	19.3	-0.0002	mg/L	-0.0002	mg/L			21:11:05
2	Be 313.107†	2227.7	35.9	0.0001	mg/L	0.0001	mg/L			21:10:45
2	Ca 315.886†	1695.4	-116.1	-0.0049	mg/L	-0.0049	mg/L			21:10:45
2	Cd 228.802†	118.3	3.2	0.0000	mg/L	0.0000	mg/L			21:11:05
2	Co 228.616†	-167.4	8.7	0.0000	mg/L	0.0000	mg/L			21:11:05
2	Cr 267.716†	1287.0	-62.4	-0.0008	mg/L	-0.0008	mg/L			21:10:45
2	Cu 324.752†	2640.1	729.3	0.0013	mg/L	0.0013	mg/L			21:10:45
2	Fe 234.349†	1357.2	125.7	-0.0015	mg/L	-0.0015	mg/L			21:11:05
2	Fe 238.204†	1264.6	155.3	-0.0040	mg/L	-0.0040	mg/L			21:11:05
2	Mg 279.077†	586.9	47.0	-0.0095	mg/L	-0.0095	mg/L			21:10:45
2	Mn 257.610†	1839.8	-33.5	-0.0026	mg/L	-0.0026	mg/L			21:10:45
2	Mo 202.031†	47.8	10.7	0.0009	mg/L	0.0009	mg/L			21:11:05
2	Ni 231.604†	43.9	14.5	0.0008	mg/L	0.0008	mg/L			21:11:05
2	P 214.914†	42.2	-1.3	0.0244	mg/L	0.0244	mg/L			21:11:05
2	Pb 220.353†	-156.3	-5.5	-0.0023	mg/L	-0.0023	mg/L			21:11:05

2	Sb 206.836†	6.8	-8.3	-0.0033 mg/L	-0.0033 mg/L	21:11:05
2	Se 196.026†	-9.4	-5.4	0.0036 mg/L	0.0036 mg/L	21:11:05
2	Sn 189.927†	132.2	-57.0	-0.0220 mg/L	-0.0220 mg/L	21:11:05
2	Sr 407.771†	6415.3	141.4	-0.0002 mg/L	-0.0002 mg/L	21:10:39
2	Ti 337.279†	-2037.0	-72.5	0.0006 mg/L	0.0006 mg/L	21:10:45
2	Tl 190.801†	-4.2	-23.7	0.0018 mg/L	0.0018 mg/L	21:11:05
2	V 292.402†	-1588.5	30.8	0.0009 mg/L	0.0009 mg/L	21:10:45
2	Zn 213.857†	676.6	5.9	0.0006 mg/L	0.0006 mg/L	21:11:05

## Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3364123.9	1.000 mg/L	0.0067			0.67%
Ag 328.068†	556.8	0.0011 mg/L	0.00044	0.0011 mg/L	0.00044	38.64%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	13.9	0.0044 mg/L	0.00142	0.0044 mg/L	0.00142	32.43%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	2.9	0.0069 mg/L	0.00134	0.0069 mg/L	0.00134	19.35%
QC value within limits for As 188.979 Recovery = Not calculated						
B 182.528†	2.4	0.0109 mg/L	0.00241	0.0109 mg/L	0.00241	22.10%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	10.1	-0.0003 mg/L	0.00011	-0.0003 mg/L	0.00011	37.30%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	87.3	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	10.87%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.886†	-225.2	-0.0057 mg/L	0.00106	-0.0057 mg/L	0.00106	18.74%
QC value within limits for Ca 315.886 Recovery = Not calculated						
Cd 228.802†	5.3	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	112.13%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	3.3	-0.0002 mg/L	0.00020	-0.0002 mg/L	0.00020	127.89%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-42.7	-0.0006 mg/L	0.00018	-0.0006 mg/L	0.00018	29.04%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	720.9	0.0013 mg/L	0.00004	0.0013 mg/L	0.00004	3.48%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	114.7	-0.0017 mg/L	0.00029	-0.0017 mg/L	0.00029	17.58%
QC value within limits for Fe 234.349 Recovery = Not calculated						
Fe 238.204†	161.5	-0.0040 mg/L	0.00007	-0.0040 mg/L	0.00007	1.88%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	34.2	0.0227 mg/L	0.01519	0.0227 mg/L	0.01519	66.89%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 670.784†	-11.6	-0.0026 mg/L	0.00004	-0.0026 mg/L	0.00004	1.48%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	0.8	-0.0113 mg/L	0.00262	-0.0113 mg/L	0.00262	23.14%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	-39.3	-0.0026 mg/L	0.00001	-0.0026 mg/L	0.00001	0.35%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	10.6	0.0009 mg/L	0.00002	0.0009 mg/L	0.00002	1.86%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	105.1	-0.0888 mg/L	0.00043	-0.0888 mg/L	0.00043	0.48%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	9.8	0.0006 mg/L	0.00021	0.0006 mg/L	0.00021	35.48%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-1.0	0.0247 mg/L	0.00037	0.0247 mg/L	0.00037	1.48%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-2.3	-0.0020 mg/L	0.00051	-0.0020 mg/L	0.00051	25.93%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-6.9	-0.0026 mg/L	0.00096	-0.0026 mg/L	0.00096	36.93%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-4.7	0.0045 mg/L	0.00126	0.0045 mg/L	0.00126	28.21%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-53.6	-0.0211 mg/L	0.00127	-0.0211 mg/L	0.00127	5.99%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	103.5	-0.0002 mg/L	0.00000	-0.0002 mg/L	0.00000	1.06%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	-125.0	0.0005 mg/L	0.00009	0.0005 mg/L	0.00009	17.60%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	-22.5	0.0028 mg/L	0.00145	0.0028 mg/L	0.00145	52.16%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	-4.7	0.0007 mg/L	0.00020	0.0007 mg/L	0.00020	27.50%
QC value within limits for V 292.402 Recovery = Not calculated						

Zn 213.857† -7.6 0.0004 mg/L 0.00025 0.0004 mg/L 0.00025 59.77%  
 QC value within limits for Zn 213.857 Recovery = Not calculated  
 QC Failed. Continue with analysis.

Sequence No.: 27  
 Sample ID: 0606373-05  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 19  
 Date Collected: 6/23/2006 9:12:42 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 0606373-05

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	6534.4	5894.5	3.236 mg/L	3.236 mg/L	21:14:19
1	Li 670.784†	1656.8	1466.9	0.0398 mg/L	0.0398 mg/L	21:14:19
1	Na 589.592	54389.4	55202.6	6.605 mg/L	6.605 mg/L	21:14:19
1	Y 371.029	3405112.3	3405112.3	1.01 mg/L		21:14:43
1	Ag 328.068†	192585.3	192825.6	0.6745 mg/L	0.6745 mg/L	21:14:49
1	Al 237.313†	327475.7	323594.8	36.16 mg/L	36.16 mg/L	21:14:49
1	As 188.979†	137.2	130.9	0.1795 mg/L	0.1795 mg/L	21:15:09
1	B 182.528†	-4.1	-1.3	0.0027 mg/L	0.0027 mg/L	21:15:09
1	Ba 233.527†	124097.0	122786.1	1.023 mg/L	1.023 mg/L	21:14:49
1	Be 313.107†	22447.9	19975.8	0.0032 mg/L	0.0032 mg/L	21:14:49
1	Ca 315.886†	3359273.8	3317098.5	22.76 mg/L	22.76 mg/L	21:14:43
1	Cd 228.802†	1099.3	970.4	0.0239 mg/L	0.0239 mg/L	21:15:09
1	Co 228.616†	2418.3	2566.1	0.0629 mg/L	0.0629 mg/L	21:15:09
1	Cr 267.716†	296087.1	291174.6	1.893 mg/L	1.893 mg/L	21:14:49
1	Cu 324.752†	2616288.4	2582935.0	9.824 mg/L	9.824 mg/L	21:14:43
1	Fe 234.349†	5098509.2	5036021.7	96.26 mg/L	96.26 mg/L	21:14:36
1	Fe 238.204†	10865271.4	10733629.3	91.82 mg/L	91.82 mg/L	21:14:36
1	Mg 279.077†	221908.5	218699.9	8.763 mg/L	8.763 mg/L	21:14:49
1	Mn 257.610†	2714562.2	2680069.6	2.946 mg/L	2.946 mg/L	21:14:43
1	Mo 202.031†	367.0	325.3	0.0216 mg/L	0.0216 mg/L	21:15:09
1	Ni 231.604†	18916.5	18659.6	0.5973 mg/L	0.5973 mg/L	21:14:49
1	P 214.914†	19644.3	19364.6	13.83 mg/L	13.83 mg/L	21:14:49
1	Pb 220.353†	29922.3	29714.3	3.354 mg/L	3.354 mg/L	21:14:49
1	Sb 206.836†	114.9	98.3	0.0105 mg/L	0.0105 mg/L	21:15:09
1	Se 196.026†	4.4	8.4	0.0209 mg/L	0.0209 mg/L	21:15:09
1	Sn 189.927†	2559.8	2339.3	0.6187 mg/L	0.6187 mg/L	21:15:09
1	Sr 407.771†	3896723.3	3843606.5	0.1735 mg/L	0.1735 mg/L	21:14:36
1	Ti 337.279†	1484019.4	1468165.8	1.853 mg/L	1.853 mg/L	21:14:43
1	Tl 190.801†	-28.5	-47.6	0.0264 mg/L	0.0264 mg/L	21:15:09
1	V 292.402†	165479.0	165117.9	0.6408 mg/L	0.6408 mg/L	21:14:49
1	Zn 213.857†	568287.0	560786.1	7.246 mg/L	7.246 mg/L	21:14:43
2	K 766.490†	6450.1	5798.4	3.183 mg/L	3.183 mg/L	21:14:25
2	Li 670.784†	1630.2	1437.3	0.0390 mg/L	0.0390 mg/L	21:14:25
2	Na 589.592	53702.2	54515.4	6.522 mg/L	6.522 mg/L	21:14:25
2	Y 371.029	3411933.3	3411933.3	1.01 mg/L		21:15:24
2	Ag 328.068†	191645.6	191518.6	0.6700 mg/L	0.6700 mg/L	21:15:30
2	Al 237.313†	327236.5	322712.0	36.06 mg/L	36.06 mg/L	21:15:30
2	As 188.979†	133.9	127.3	0.1746 mg/L	0.1746 mg/L	21:15:50
2	B 182.528†	-5.3	-2.5	-0.0001 mg/L	-0.0001 mg/L	21:15:50
2	Ba 233.527†	124419.4	122858.9	1.024 mg/L	1.024 mg/L	21:15:30
2	Be 313.107†	22532.7	20015.1	0.0032 mg/L	0.0032 mg/L	21:15:30
2	Ca 315.886†	3365062.5	3316171.2	22.75 mg/L	22.75 mg/L	21:15:24
2	Cd 228.802†	1104.7	973.6	0.0241 mg/L	0.0241 mg/L	21:15:50
2	Co 228.616†	2423.9	2566.9	0.0629 mg/L	0.0629 mg/L	21:15:50
2	Cr 267.716†	295348.6	289861.5	1.885 mg/L	1.885 mg/L	21:15:30
2	Cu 324.752†	2618627.7	2580074.1	9.813 mg/L	9.813 mg/L	21:15:24
2	Fe 234.349†	5097619.1	5025073.8	96.05 mg/L	96.05 mg/L	21:15:18
2	Fe 238.204†	10875543.8	10722297.6	91.72 mg/L	91.72 mg/L	21:15:18
2	Mg 279.077†	221938.2	218291.0	8.746 mg/L	8.746 mg/L	21:15:30
2	Mn 257.610†	2719205.8	2679286.5	2.945 mg/L	2.945 mg/L	21:15:24
2	Mo 202.031†	352.7	310.5	0.0206 mg/L	0.0206 mg/L	21:15:50
2	Ni 231.604†	19104.6	18807.7	0.6021 mg/L	0.6021 mg/L	21:15:30
2	P 214.914†	19495.1	19178.6	13.69 mg/L	13.69 mg/L	21:15:30
2	Pb 220.353†	29810.2	29544.8	3.335 mg/L	3.335 mg/L	21:15:30
2	Sb 206.836†	125.6	108.7	0.0156 mg/L	0.0156 mg/L	21:15:50
2	Se 196.026†	5.8	9.7	0.0226 mg/L	0.0226 mg/L	21:15:50
2	Sn 189.927†	2557.6	2332.0	0.6167 mg/L	0.6167 mg/L	21:15:50

2	Sr 407.771†	3904101.6	3843185.0	0.1735 mg/L	0.1735 mg/L	21:15:18
2	Ti 337.279†	1483766.2	1464985.0	1.849 mg/L	1.849 mg/L	21:15:24
2	Tl 190.801†	-28.3	-47.4	0.0266 mg/L	0.0266 mg/L	21:15:50
2	V 292.402†	165021.2	164339.7	0.6377 mg/L	0.6377 mg/L	21:15:30
2	Zn 213.857†	565943.3	557352.8	7.201 mg/L	7.201 mg/L	21:15:24

Mean Data: 0606373-05

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3408522.8	1.01	mg/L	0.001				0.14%
Ag 328.068†	192172.1	0.6722	mg/L	0.00322	0.6722	mg/L	0.00322	0.48%
Al 237.313†	323153.4	36.11	mg/L	0.070	36.11	mg/L	0.070	0.19%
As 188.979†	129.1	0.1771	mg/L	0.00344	0.1771	mg/L	0.00344	1.94%
B 182.528†	-1.9	0.0013	mg/L	0.00193	0.0013	mg/L	0.00193	147.94%
Ba 233.527†	122822.5	1.023	mg/L	0.0004	1.023	mg/L	0.0004	0.04%
Be 313.107†	19995.4	0.0032	mg/L	0.00001	0.0032	mg/L	0.00001	0.20%
Ca 315.886†	3316634.9	22.75	mg/L	0.005	22.75	mg/L	0.005	0.02%
Cd 228.802†	972.0	0.0240	mg/L	0.00008	0.0240	mg/L	0.00008	0.31%
Co 228.616†	2566.5	0.0629	mg/L	0.00002	0.0629	mg/L	0.00002	0.03%
Cr 267.716†	290518.0	1.889	mg/L	0.0060	1.889	mg/L	0.0060	0.32%
Cu 324.752†	2581504.5	9.818	mg/L	0.0077	9.818	mg/L	0.0077	0.08%
Fe 234.349†	5030547.8	96.15	mg/L	0.148	96.15	mg/L	0.148	0.15%
Fe 238.204†	10727963.5	91.77	mg/L	0.069	91.77	mg/L	0.069	0.07%
K 766.490†	5846.5	3.209	mg/L	0.0373	3.209	mg/L	0.0373	1.16%
Li 670.784†	1452.1	0.0394	mg/L	0.00060	0.0394	mg/L	0.00060	1.52%
Mg 279.077†	218495.4	8.754	mg/L	0.0116	8.754	mg/L	0.0116	0.13%
Mn 257.610†	2679678.0	2.946	mg/L	0.0006	2.946	mg/L	0.0006	0.02%
Mo 202.031†	317.9	0.0211	mg/L	0.00069	0.0211	mg/L	0.00069	3.28%
Na 589.592	54859.0	6.564	mg/L	0.0590	6.564	mg/L	0.0590	0.90%
Ni 231.604†	18733.7	0.5997	mg/L	0.00335	0.5997	mg/L	0.00335	0.56%
P 214.914†	19271.6	13.76	mg/L	0.094	13.76	mg/L	0.094	0.68%
Pb 220.353†	29629.5	3.345	mg/L	0.0136	3.345	mg/L	0.0136	0.41%
Sb 206.836†	103.5	0.0130	mg/L	0.00364	0.0130	mg/L	0.00364	27.97%
Se 196.026†	9.0	0.0217	mg/L	0.00120	0.0217	mg/L	0.00120	5.51%
Sn 189.927†	2335.6	0.6177	mg/L	0.00137	0.6177	mg/L	0.00137	0.22%
Sr 407.771†	3843395.8	0.1735	mg/L	0.00001	0.1735	mg/L	0.00001	0.01%
Ti 337.279†	1466575.4	1.851	mg/L	0.0028	1.851	mg/L	0.0028	0.15%
Tl 190.801†	-47.5	0.0265	mg/L	0.00014	0.0265	mg/L	0.00014	0.54%
V 292.402†	164728.8	0.6393	mg/L	0.00217	0.6393	mg/L	0.00217	0.34%
Zn 213.857†	559069.4	7.223	mg/L	0.0314	7.223	mg/L	0.0314	0.44%

Sequence No.: 28  
 Sample ID: 0606373-06  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 20  
 Date Collected: 6/23/2006 9:17:29 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 0606373-06

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Sample Conc.	Analysis Time
1	K 766.490†	1095.6	557.0	0.3093 mg/L	0.3093 mg/L	21:19:05
1	Li 670.784†	177.7	11.4	-0.0020 mg/L	-0.0020 mg/L	21:19:05
1	Na 589.592	53815.7	54628.9	6.536 mg/L	6.536 mg/L	21:19:05
1	Y 371.029	3295839.6	3295839.6	0.980 mg/L		21:19:28
1	Ag 328.068†	-394.0	2151.6	0.0085 mg/L	0.0085 mg/L	21:19:33
1	Al 237.313†	34915.5	35692.8	3.813 mg/L	3.813 mg/L	21:19:33
1	As 188.979†	79.1	76.1	0.1069 mg/L	0.1069 mg/L	21:19:54
1	B 182.528†	4.6	7.4	0.0222 mg/L	0.0222 mg/L	21:19:54
1	Ba 233.527†	26439.1	27167.5	0.2262 mg/L	0.2262 mg/L	21:19:33
1	Be 313.107†	8698.8	6676.8	0.0016 mg/L	0.0016 mg/L	21:19:33
1	Ca 315.886†	3657232.7	3731275.9	25.60 mg/L	25.60 mg/L	21:19:28
1	Cd 228.802†	281.9	172.1	0.0041 mg/L	0.0041 mg/L	21:19:54
1	Co 228.616†	1086.7	1286.1	0.0331 mg/L	0.0331 mg/L	21:19:54
1	Cr 267.716†	7635.1	6437.9	0.0385 mg/L	0.0385 mg/L	21:19:33
1	Cu 324.752†	24779.3	23369.8	0.0956 mg/L	0.0956 mg/L	21:19:33
1	Fe 234.349†	2329644.3	2376730.6	45.43 mg/L	45.43 mg/L	21:19:28
1	Fe 238.204†	5132923.1	5238281.2	44.81 mg/L	44.81 mg/L	21:19:22
1	Mg 279.077†	57329.3	57975.7	2.387 mg/L	2.387 mg/L	21:19:33
1	Mn 257.610†	7718922.8	7877156.3	8.663 mg/L	8.663 mg/L	21:19:22

2	Sr 407.771†	3904101.6	3843185.0	0.1735 mg/L	0.1735 mg/L	21:15:18
2	Ti 337.279†	1483766.2	1464985.0	1.849 mg/L	1.849 mg/L	21:15:24
2	Tl 190.801†	-28.3	-47.4	0.0266 mg/L	0.0266 mg/L	21:15:50
2	V 292.402†	165021.2	164339.7	0.6377 mg/L	0.6377 mg/L	21:15:30
2	Zn 213.857†	565943.3	557352.8	7.201 mg/L	7.201 mg/L	21:15:24

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 Mean Data: 0606373-05

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3408522.8	1.01 mg/L	0.001			0.14%
Ag 328.068†	192172.1	0.6722 mg/L	0.00322	0.6722 mg/L	0.00322	0.48%
Al 237.313†	323153.4	36.11 mg/L	0.070	36.11 mg/L	0.070	0.19%
As 188.979†	129.1	0.1771 mg/L	0.00344	0.1771 mg/L	0.00344	1.94%
B 182.528†	-1.9	0.0013 mg/L	0.00193	0.0013 mg/L	0.00193	147.94%
Ba 233.527†	122822.5	1.023 mg/L	0.0004	1.023 mg/L	0.0004	0.04%
Be 313.107†	19995.4	0.0032 mg/L	0.00001	0.0032 mg/L	0.00001	0.20%
Ca 315.886†	3316634.9	22.75 mg/L	0.005	22.75 mg/L	0.005	0.02%
Cd 228.802†	972.0	0.0240 mg/L	0.00008	0.0240 mg/L	0.00008	0.31%
Co 228.616†	2566.5	0.0629 mg/L	0.00002	0.0629 mg/L	0.00002	0.03%
Cr 267.716†	290518.0	1.889 mg/L	0.0060	1.889 mg/L	0.0060	0.32%
Cu 324.752†	2581504.5	9.818 mg/L	0.0077	9.818 mg/L	0.0077	0.08%
Fe 234.349†	5030547.8	96.15 mg/L	0.148	96.15 mg/L	0.148	0.15%
Fe 238.204†	10727963.5	91.77 mg/L	0.069	91.77 mg/L	0.069	0.07%
K 766.490†	5846.5	3.209 mg/L	0.0373	3.209 mg/L	0.0373	1.16%
Li 670.784†	1452.1	0.0394 mg/L	0.00060	0.0394 mg/L	0.00060	1.52%
Mg 279.077†	218495.4	8.754 mg/L	0.0116	8.754 mg/L	0.0116	0.13%
Mn 257.610†	2679678.0	2.946 mg/L	0.0006	2.946 mg/L	0.0006	0.02%
Mo 202.031†	317.9	0.0211 mg/L	0.00069	0.0211 mg/L	0.00069	3.28%
Na 589.592	54859.0	6.564 mg/L	0.0590	6.564 mg/L	0.0590	0.90%
Ni 231.604†	18733.7	0.5997 mg/L	0.00335	0.5997 mg/L	0.00335	0.56%
P 214.914†	19271.6	13.76 mg/L	0.094	13.76 mg/L	0.094	0.68%
Pb 220.353†	29629.5	3.345 mg/L	0.0136	3.345 mg/L	0.0136	0.41%
Sb 206.836†	103.5	0.0130 mg/L	0.00364	0.0130 mg/L	0.00364	27.97%
Se 196.026†	9.0	0.0217 mg/L	0.00120	0.0217 mg/L	0.00120	5.51%
Sn 189.927†	2335.6	0.6177 mg/L	0.00137	0.6177 mg/L	0.00137	0.22%
Sr 407.771†	3843395.8	0.1735 mg/L	0.00001	0.1735 mg/L	0.00001	0.01%
Ti 337.279†	1466575.4	1.851 mg/L	0.0028	1.851 mg/L	0.0028	0.15%
Tl 190.801†	-47.5	0.0265 mg/L	0.00014	0.0265 mg/L	0.00014	0.54%
V 292.402†	164728.8	0.6393 mg/L	0.00217	0.6393 mg/L	0.00217	0.34%
Zn 213.857†	559069.4	7.223 mg/L	0.0314	7.223 mg/L	0.0314	0.44%

Sequence No.: 28  
 Sample ID: 0606373-06  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 20  
 Date Collected: 6/23/2006 9:17:29 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

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 Replicate Data: 0606373-06

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	1095.6	557.0	0.3093 mg/L	0.3093 mg/L	21:19:05
1	Li 670.784†	177.7	11.4	-0.0020 mg/L	-0.0020 mg/L	21:19:05
1	Na 589.592	53815.7	54628.9	6.536 mg/L	6.536 mg/L	21:19:05
1	Y 371.029	3295839.6	3295839.6	0.980 mg/L		21:19:28
1	Ag 328.068†	-394.0	2151.6	0.0085 mg/L	0.0085 mg/L	21:19:33
1	Al 237.313†	34915.5	35692.8	3.813 mg/L	3.813 mg/L	21:19:33
1	As 188.979†	79.1	76.1	0.1069 mg/L	0.1069 mg/L	21:19:54
1	B 182.528†	4.6	7.4	0.0222 mg/L	0.0222 mg/L	21:19:54
1	Ba 233.527†	26439.1	27167.5	0.2262 mg/L	0.2262 mg/L	21:19:33
1	Be 313.107†	8698.8	6676.8	0.0016 mg/L	0.0016 mg/L	21:19:33
1	Ca 315.886†	3657232.7	3731275.9	25.60 mg/L	25.60 mg/L	21:19:28
1	Cd 228.802†	281.9	172.1	0.0041 mg/L	0.0041 mg/L	21:19:54
1	Co 228.616†	1086.7	1286.1	0.0331 mg/L	0.0331 mg/L	21:19:54
1	Cr 267.716†	7635.1	6437.9	0.0385 mg/L	0.0385 mg/L	21:19:33
1	Cu 324.752†	24779.3	23369.8	0.0956 mg/L	0.0956 mg/L	21:19:33
1	Fe 234.349†	2329644.3	2376730.6	45.43 mg/L	45.43 mg/L	21:19:28
1	Fe 238.204†	5132923.1	5238281.2	44.81 mg/L	44.81 mg/L	21:19:22
1	Mg 279.077†	57329.3	57975.7	2.387 mg/L	2.387 mg/L	21:19:33
1	Mn 257.610†	7718922.8	7877156.3	8.663 mg/L	8.663 mg/L	21:19:22

1	Mo 202.031†	342.4	312.2	0.0207 mg/L	0.0207 mg/L	21:19:54
1	Ni 231.604†	1085.3	1078.2	0.0348 mg/L	0.0348 mg/L	21:19:54
1	P 214.914†	4784.0	4839.5	3.474 mg/L	3.474 mg/L	21:19:54
1	Pb 220.353†	1594.0	1778.6	0.1978 mg/L	0.1978 mg/L	21:19:54
1	Sb 206.836†	6.7	-8.3	-0.0043 mg/L	-0.0043 mg/L	21:19:54
1	Se 196.026†	4.2	8.4	0.0208 mg/L	0.0208 mg/L	21:19:54
1	Sn 189.927†	276.1	92.0	0.0194 mg/L	0.0194 mg/L	21:19:54
1	Sr 407.771†	2631990.0	2680281.4	0.1209 mg/L	0.1209 mg/L	21:19:22
1	Ti 337.279†	130101.4	134774.4	0.1707 mg/L	0.1707 mg/L	21:19:33
1	Tl 190.801†	-126.4	-148.5	0.0474 mg/L	0.0474 mg/L	21:19:54
1	V 292.402†	4703.5	6428.0	0.0205 mg/L	0.0205 mg/L	21:19:33
1	Zn 213.857†	7707.6	7193.5	0.0894 mg/L	0.0894 mg/L	21:19:54
2	K 766.490†	1109.3	577.3	0.3204 mg/L	0.3204 mg/L	21:19:10
2	Li 670.784†	207.7	43.1	-0.0011 mg/L	-0.0011 mg/L	21:19:10
2	Na 589.592	54021.3	54834.5	6.561 mg/L	6.561 mg/L	21:19:10
2	Y 371.029	3277589.9	3277589.9	0.974 mg/L		21:20:09
2	Ag 328.068†	-352.7	2191.8	0.0087 mg/L	0.0087 mg/L	21:20:14
2	Al 237.313†	34616.4	35584.2	3.801 mg/L	3.801 mg/L	21:20:14
2	As 188.979†	79.7	77.1	0.1083 mg/L	0.1083 mg/L	21:20:35
2	B 182.528†	7.7	10.6	0.0295 mg/L	0.0295 mg/L	21:20:35
2	Ba 233.527†	26164.0	27035.4	0.2251 mg/L	0.2251 mg/L	21:20:14
2	Be 313.107†	8550.4	6573.9	0.0016 mg/L	0.0016 mg/L	21:20:14
2	Ca 315.886†	3629479.1	3723574.7	25.54 mg/L	25.54 mg/L	21:20:09
2	Cd 228.802†	282.3	174.1	0.0041 mg/L	0.0041 mg/L	21:20:35
2	Co 228.616†	1097.0	1302.9	0.0335 mg/L	0.0335 mg/L	21:20:35
2	Cr 267.716†	7607.3	6452.8	0.0386 mg/L	0.0386 mg/L	21:20:14
2	Cu 324.752†	24465.8	23188.9	0.0949 mg/L	0.0949 mg/L	21:20:14
2	Fe 234.349†	2313303.3	2373198.3	45.36 mg/L	45.36 mg/L	21:20:09
2	Fe 238.204†	5082449.4	5215646.6	44.61 mg/L	44.61 mg/L	21:20:03
2	Mg 279.077†	56712.4	57668.4	2.375 mg/L	2.375 mg/L	21:20:14
2	Mn 257.610†	7647822.3	7848047.4	8.631 mg/L	8.631 mg/L	21:20:03
2	Mo 202.031†	335.8	307.4	0.0204 mg/L	0.0204 mg/L	21:20:35
2	Ni 231.604†	1094.0	1093.3	0.0353 mg/L	0.0353 mg/L	21:20:35
2	P 214.914†	4766.0	4848.2	3.480 mg/L	3.480 mg/L	21:20:35
2	Pb 220.353†	1605.8	1799.8	0.2002 mg/L	0.2002 mg/L	21:20:35
2	Sb 206.836†	-0.6	-15.8	-0.0079 mg/L	-0.0079 mg/L	21:20:35
2	Se 196.026†	1.5	5.6	0.0174 mg/L	0.0174 mg/L	21:20:35
2	Sn 189.927†	260.6	77.6	0.0156 mg/L	0.0156 mg/L	21:20:35
2	Sr 407.771†	2611638.5	2674350.9	0.1207 mg/L	0.1207 mg/L	21:20:03
2	Ti 337.279†	128809.6	134187.9	0.1700 mg/L	0.1700 mg/L	21:20:14
2	Tl 190.801†	-120.8	-143.4	0.0510 mg/L	0.0510 mg/L	21:20:35
2	V 292.402†	4730.1	6482.0	0.0207 mg/L	0.0207 mg/L	21:20:14
2	Zn 213.857†	7698.1	7227.6	0.0898 mg/L	0.0898 mg/L	21:20:35

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Mean Data: 0606373-06

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3286714.7	0.977 mg/L	0.0038			0.39%
Ag 328.068†	2171.7	0.0086 mg/L	0.00010	0.0086 mg/L	0.00010	1.13%
Al 237.313†	35638.5	3.807 mg/L	0.0084	3.807 mg/L	0.0084	0.22%
As 188.979†	76.6	0.1076 mg/L	0.00101	0.1076 mg/L	0.00101	0.94%
B 182.528†	9.0	0.0258 mg/L	0.00512	0.0258 mg/L	0.00512	19.80%
Ba 233.527†	27101.4	0.2256 mg/L	0.00078	0.2256 mg/L	0.00078	0.35%
Be 313.107†	6625.3	0.0016 mg/L	0.00001	0.0016 mg/L	0.00001	0.93%
Ca 315.886†	3727425.3	25.57 mg/L	0.037	25.57 mg/L	0.037	0.15%
Cd 228.802†	173.1	0.0041 mg/L	0.00003	0.0041 mg/L	0.00003	0.74%
Co 228.616†	1294.5	0.0333 mg/L	0.00031	0.0333 mg/L	0.00031	0.94%
Cr 267.716†	6445.3	0.0386 mg/L	0.00008	0.0386 mg/L	0.00008	0.21%
Cu 324.752†	23279.4	0.0952 mg/L	0.00049	0.0952 mg/L	0.00049	0.52%
Fe 234.349†	2374964.4	45.40 mg/L	0.048	45.40 mg/L	0.048	0.11%
Fe 238.204†	5226963.9	44.71 mg/L	0.137	44.71 mg/L	0.137	0.31%
K 766.490†	567.1	0.3149 mg/L	0.00786	0.3149 mg/L	0.00786	2.50%
Li 670.784†	27.3	-0.0015 mg/L	0.00064	-0.0015 mg/L	0.00064	42.13%
Mg 279.077†	57822.1	2.381 mg/L	0.0089	2.381 mg/L	0.0089	0.38%
Mn 257.610†	7862601.8	8.647 mg/L	0.0226	8.647 mg/L	0.0226	0.26%
Mo 202.031†	309.8	0.0206 mg/L	0.00023	0.0206 mg/L	0.00023	1.10%
Na 589.592	54731.7	6.548 mg/L	0.0177	6.548 mg/L	0.0177	0.27%
Ni 231.604†	1085.8	0.0351 mg/L	0.00034	0.0351 mg/L	0.00034	0.98%
P 214.914†	4843.8	3.477 mg/L	0.0044	3.477 mg/L	0.0044	0.13%
Pb 220.353†	1789.2	0.1990 mg/L	0.00169	0.1990 mg/L	0.00169	0.85%
Sb 206.836†	-12.0	-0.0061 mg/L	0.00253	-0.0061 mg/L	0.00253	41.48%

Se 196.026†	7.0	0.0191 mg/L	0.00246	0.0191 mg/L	0.00246	12.85%
Sn 189.927†	84.8	0.0175 mg/L	0.00269	0.0175 mg/L	0.00269	15.34%
Sr 407.771†	2677316.1	0.1208 mg/L	0.00019	0.1208 mg/L	0.00019	0.16%
Ti 337.279†	134481.1	0.1703 mg/L	0.00052	0.1703 mg/L	0.00052	0.31%
Tl 190.801†	-146.0	0.0492 mg/L	0.00255	0.0492 mg/L	0.00255	5.19%
V 292.402†	6455.0	0.0206 mg/L	0.00015	0.0206 mg/L	0.00015	0.75%
Zn 213.857†	7210.6	0.0896 mg/L	0.00031	0.0896 mg/L	0.00031	0.35%

Sequence No.: 29

Sample ID: 0606373-07

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 21

Date Collected: 6/23/2006 9:22:14 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 0606373-07

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Sample Conc. Units	Analysis Time
1	K 766.490†	7969.7	7316.4	4.015 mg/L		4.015 mg/L	21:23:50
1	Li 670.784†	2417.9	2220.0	0.0615 mg/L		0.0615 mg/L	21:23:50
1	Na 589.592	52774.6	53587.8	6.409 mg/L		6.409 mg/L	21:23:50
1	Y 371.029	3403439.1	3403439.1	1.01 mg/L			21:24:14
1	Ag 328.068†	182648.8	183097.1	0.6418 mg/L		0.6418 mg/L	21:24:20
1	Al 237.313†	457390.4	452170.8	50.58 mg/L		50.58 mg/L	21:24:14
1	As 188.979†	117.4	111.4	0.1518 mg/L		0.1518 mg/L	21:24:40
1	B 182.528†	-2.3	0.5	0.0067 mg/L		0.0067 mg/L	21:24:40
1	Ba 233.527†	222120.6	219740.1	1.831 mg/L		1.831 mg/L	21:24:20
1	Be 313.107†	26205.9	23701.3	0.0032 mg/L		0.0032 mg/L	21:24:20
1	Ca 315.886†	3730046.4	3685228.7	25.29 mg/L		25.29 mg/L	21:24:14
1	Cd 228.802†	1407.3	1275.4	0.0319 mg/L		0.0319 mg/L	21:24:40
1	Co 228.616†	2872.1	3015.9	0.0732 mg/L		0.0732 mg/L	21:24:40
1	Cr 267.716†	193860.5	190270.2	1.239 mg/L		1.239 mg/L	21:24:20
1	Cu 324.752†	1644687.9	1623805.3	6.188 mg/L		6.188 mg/L	21:24:14
1	Fe 234.349†	6493981.4	6417884.1	122.7 mg/L		122.7 mg/L	21:24:08
1	Fe 238.204†	13648621.6	13490172.0	115.4 mg/L		115.4 mg/L	21:24:08
1	Mg 279.077†	289354.7	285476.4	11.45 mg/L		11.45 mg/L	21:24:20
1	Mn 257.610†	3867954.9	3821485.0	4.202 mg/L		4.202 mg/L	21:24:14
1	Mo 202.031†	373.3	331.7	0.0220 mg/L		0.0220 mg/L	21:24:40
1	Ni 231.604†	22838.1	22545.2	0.7216 mg/L		0.7216 mg/L	21:24:20
1	P 214.914†	17066.6	16826.1	12.02 mg/L		12.02 mg/L	21:24:20
1	Pb 220.353†	33910.5	33671.1	3.804 mg/L		3.804 mg/L	21:24:20
1	Sb 206.836†	70.7	54.7	0.0032 mg/L		0.0032 mg/L	21:24:40
1	Se 196.026†	17.8	21.6	0.0375 mg/L		0.0375 mg/L	21:24:40
1	Sn 189.927†	1515.2	1307.9	0.3472 mg/L		0.3472 mg/L	21:24:40
1	Sr 407.771†	5973087.0	5897927.7	0.2664 mg/L		0.2664 mg/L	21:24:08
1	Ti 337.279†	2016647.1	1995374.5	2.518 mg/L		2.518 mg/L	21:24:14
1	Tl 190.801†	-54.7	-73.5	0.0241 mg/L		0.0241 mg/L	21:24:40
1	V 292.402†	248960.8	247717.8	0.9652 mg/L		0.9652 mg/L	21:24:20
1	Zn 213.857†	570108.7	562862.8	7.270 mg/L		7.270 mg/L	21:24:14
2	K 766.490†	7914.1	7204.4	3.954 mg/L		3.954 mg/L	21:23:56
2	Li 670.784†	2378.2	2163.7	0.0598 mg/L		0.0598 mg/L	21:23:56
2	Na 589.592	52318.8	53132.0	6.354 mg/L		6.354 mg/L	21:23:56
2	Y 371.029	3428437.3	3428437.3	1.02 mg/L			21:24:56
2	Ag 328.068†	180482.0	179654.6	0.6298 mg/L		0.6298 mg/L	21:25:01
2	Al 237.313†	460559.0	451983.5	50.55 mg/L		50.55 mg/L	21:24:56
2	As 188.979†	117.8	110.9	0.1511 mg/L		0.1511 mg/L	21:25:21
2	B 182.528†	-2.3	0.5	0.0067 mg/L		0.0067 mg/L	21:25:21
2	Ba 233.527†	221191.9	217227.8	1.810 mg/L		1.810 mg/L	21:25:01
2	Be 313.107†	26029.6	23339.5	0.0031 mg/L		0.0031 mg/L	21:25:01
2	Ca 315.886†	3756615.5	3684416.2	25.28 mg/L		25.28 mg/L	21:24:56
2	Cd 228.802†	1391.3	1249.5	0.0312 mg/L		0.0312 mg/L	21:25:21
2	Co 228.616†	2872.0	2995.0	0.0727 mg/L		0.0727 mg/L	21:25:21
2	Cr 267.716†	193312.8	188335.5	1.227 mg/L		1.227 mg/L	21:25:01
2	Cu 324.752†	1653074.5	1620180.9	6.174 mg/L		6.174 mg/L	21:24:56
2	Fe 234.349†	6544698.3	6420846.2	122.7 mg/L		122.7 mg/L	21:24:49
2	Fe 238.204†	13768635.8	13509566.9	115.6 mg/L		115.6 mg/L	21:24:49
2	Mg 279.077†	287961.0	282023.3	11.31 mg/L		11.31 mg/L	21:25:01
2	Mn 257.610†	3894781.5	3819931.2	4.200 mg/L		4.200 mg/L	21:24:56
2	Mo 202.031†	384.7	340.2	0.0225 mg/L		0.0225 mg/L	21:25:21
2	Ni 231.604†	22864.2	22406.2	0.7172 mg/L		0.7172 mg/L	21:25:01
2	P 214.914†	16944.6	16583.4	11.84 mg/L		11.84 mg/L	21:25:01

2	Pb 220.353†	33748.5	33267.7	3.759 mg/L	3.759 mg/L	21:25:01
2	Sb 206.836†	69.1	52.6	0.0024 mg/L	0.0024 mg/L	21:25:21
2	Se 196.026†	22.2	25.8	0.0428 mg/L	0.0428 mg/L	21:25:21
2	Sn 189.927†	1531.9	1313.4	0.3486 mg/L	0.3486 mg/L	21:25:21
2	Sr 407.771†	6031615.7	5912309.5	0.2671 mg/L	0.2671 mg/L	21:24:49
2	Ti 337.279†	2028683.8	1992650.9	2.514 mg/L	2.514 mg/L	21:24:56
2	Tl 190.801†	-47.9	-66.5	0.0299 mg/L	0.0299 mg/L	21:25:21
2	V 292.402†	248071.1	245050.4	0.9547 mg/L	0.9547 mg/L	21:25:01
2	Zn 213.857†	574749.5	563307.7	7.276 mg/L	7.276 mg/L	21:24:56

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 Mean Data: 0606373-07

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3415938.2	1.02 mg/L	0.005			0.52%
Ag 328.068†	181375.8	0.6358 mg/L	0.00847	0.6358 mg/L	0.00847	1.33%
Al 237.313†	452077.2	50.57 mg/L	0.015	50.57 mg/L	0.015	0.03%
As 188.979†	111.1	0.1515 mg/L	0.00046	0.1515 mg/L	0.00046	0.30%
B 182.528†	0.5	0.0067 mg/L	0.00005	0.0067 mg/L	0.00005	0.71%
Ba 233.527†	218483.9	1.821 mg/L	0.0148	1.821 mg/L	0.0148	0.81%
Be 313.107†	23520.4	0.0032 mg/L	0.00005	0.0032 mg/L	0.00005	1.63%
Ca 315.886†	3684822.4	25.28 mg/L	0.004	25.28 mg/L	0.004	0.02%
Cd 228.802†	1262.5	0.0315 mg/L	0.00045	0.0315 mg/L	0.00045	1.43%
Co 228.616†	3005.5	0.0729 mg/L	0.00038	0.0729 mg/L	0.00038	0.52%
Cr 267.716†	189302.8	1.233 mg/L	0.0089	1.233 mg/L	0.0089	0.72%
Cu 324.752†	1621993.1	6.181 mg/L	0.0097	6.181 mg/L	0.0097	0.16%
Fe 234.349†	6419365.2	122.7 mg/L	0.04	122.7 mg/L	0.04	0.03%
Fe 238.204†	13499869.4	115.5 mg/L	0.12	115.5 mg/L	0.12	0.10%
K 766.490†	7260.4	3.985 mg/L	0.0434	3.985 mg/L	0.0434	1.09%
Li 670.784†	2191.8	0.0607 mg/L	0.00114	0.0607 mg/L	0.00114	1.89%
Mg 279.077†	283749.9	11.38 mg/L	0.098	11.38 mg/L	0.098	0.86%
Mn 257.610†	3820708.1	4.201 mg/L	0.0012	4.201 mg/L	0.0012	0.03%
Mo 202.031†	335.9	0.0223 mg/L	0.00040	0.0223 mg/L	0.00040	1.78%
Na 589.592	53359.9	6.381 mg/L	0.0392	6.381 mg/L	0.0392	0.61%
Ni 231.604†	22475.7	0.7194 mg/L	0.00315	0.7194 mg/L	0.00315	0.44%
P 214.914†	16704.8	11.93 mg/L	0.122	11.93 mg/L	0.122	1.03%
Pb 220.353†	33469.4	3.782 mg/L	0.0322	3.782 mg/L	0.0322	0.85%
Sb 206.836†	53.6	0.0028 mg/L	0.00056	0.0028 mg/L	0.00056	20.00%
Se 196.026†	23.7	0.0401 mg/L	0.00373	0.0401 mg/L	0.00373	9.30%
Sn 189.927†	1310.7	0.3479 mg/L	0.00102	0.3479 mg/L	0.00102	0.29%
Sr 407.771†	5905118.6	0.2667 mg/L	0.00046	0.2667 mg/L	0.00046	0.17%
Ti 337.279†	1994012.7	2.516 mg/L	0.0024	2.516 mg/L	0.0024	0.10%
Tl 190.801†	-70.0	0.0270 mg/L	0.00411	0.0270 mg/L	0.00411	15.23%
V 292.402†	246384.1	0.9599 mg/L	0.00748	0.9599 mg/L	0.00748	0.78%
Zn 213.857†	563085.3	7.273 mg/L	0.0041	7.273 mg/L	0.0041	0.06%

Sequence No.: 30

Sample ID: 0606373-08

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 22

Date Collected: 6/23/2006 9:27:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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 Replicate Data: 0606373-08

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	1413.8	833.9	0.4611 mg/L	0.4611 mg/L	21:28:38
1	Li 670.784†	308.3	134.2	0.0015 mg/L	0.0015 mg/L	21:28:38
1	Na 589.592	43007.3	43820.5	5.222 mg/L	5.222 mg/L	21:28:38
1	Y 371.029	3408772.9	3408772.9	1.01 mg/L		21:28:54
1	Ag 328.068†	257.3	2807.7	0.0095 mg/L	0.0095 mg/L	21:28:59
1	Al 237.313†	84808.6	83752.8	9.411 mg/L	9.411 mg/L	21:28:59
1	As 188.979†	90.3	84.4	0.1178 mg/L	0.1178 mg/L	21:29:19
1	B 182.528†	-6.6	-3.8	-0.0029 mg/L	-0.0029 mg/L	21:29:19
1	Ba 233.527†	7432.3	7515.0	0.0623 mg/L	0.0623 mg/L	21:28:59
1	Be 313.107†	7780.8	5476.6	0.0006 mg/L	0.0006 mg/L	21:28:59
1	Ca 315.886†	473464.6	465454.8	3.189 mg/L	3.189 mg/L	21:28:54
1	Cd 228.802†	439.1	317.7	0.0075 mg/L	0.0075 mg/L	21:29:19
1	Co 228.616†	1937.0	2088.5	0.0529 mg/L	0.0529 mg/L	21:29:19
1	Cr 267.716†	11943.5	10431.7	0.0680 mg/L	0.0680 mg/L	21:28:59
1	Cu 324.752†	72875.9	69999.7	0.2674 mg/L	0.2674 mg/L	21:28:59



1	Fe 234.349†	731976.3	721168.2	13.78 mg/L	13.78 mg/L	21:28:54
1	Fe 238.204†	1636014.9	1613510.0	13.80 mg/L	13.80 mg/L	21:28:54
1	Mg 279.077†	32731.0	31760.3	1.261 mg/L	1.261 mg/L	21:28:59
1	Mn 257.610†	219260.9	214512.1	0.2335 mg/L	0.2335 mg/L	21:28:54
1	Mo 202.031†	121.1	82.2	0.0056 mg/L	0.0056 mg/L	21:29:19
1	Ni 231.604†	5125.0	5028.4	0.1612 mg/L	0.1612 mg/L	21:28:59
1	P 214.914†	4530.8	4427.8	3.181 mg/L	3.181 mg/L	21:29:19
1	Pb 220.353†	378.3	524.9	0.0587 mg/L	0.0587 mg/L	21:29:19
1	Sb 206.836†	8.7	-6.6	-0.0045 mg/L	-0.0045 mg/L	21:29:19
1	Se 196.026†	-3.1	1.0	0.0116 mg/L	0.0116 mg/L	21:29:19
1	Sn 189.927†	235.9	43.0	0.0058 mg/L	0.0058 mg/L	21:29:19
1	Sr 407.771†	546729.0	533276.3	0.0239 mg/L	0.0239 mg/L	21:28:54
1	Ti 337.279†	569393.7	563923.6	0.7120 mg/L	0.7120 mg/L	21:28:54
1	Tl 190.801†	-3.1	-22.6	0.0051 mg/L	0.0051 mg/L	21:29:19
1	V 292.402†	6254.4	7799.5	0.0291 mg/L	0.0291 mg/L	21:28:59
1	Zn 213.857†	20654.7	19710.7	0.2535 mg/L	0.2535 mg/L	21:28:59
2	K 766.490†	1418.9	838.4	0.4636 mg/L	0.4636 mg/L	21:28:44
2	Li 670.784†	332.0	157.5	0.0022 mg/L	0.0022 mg/L	21:28:44
2	Na 589.592	43196.7	44009.9	5.245 mg/L	5.245 mg/L	21:28:44
2	Y 371.029	3410123.1	3410123.1	1.01 mg/L		21:29:26
2	Ag 328.068†	262.2	2812.5	0.0096 mg/L	0.0096 mg/L	21:29:31
2	Al 237.313†	83982.8	82905.1	9.315 mg/L	9.315 mg/L	21:29:31
2	As 188.979†	86.9	81.0	0.1131 mg/L	0.1131 mg/L	21:29:52
2	B 182.528†	-5.8	-3.0	-0.0011 mg/L	-0.0011 mg/L	21:29:52
2	Ba 233.527†	7393.7	7474.1	0.0619 mg/L	0.0619 mg/L	21:29:31
2	Be 313.107†	7791.3	5483.9	0.0006 mg/L	0.0006 mg/L	21:29:31
2	Ca 315.886†	472835.0	464648.6	3.184 mg/L	3.184 mg/L	21:29:26
2	Cd 228.802†	440.4	318.7	0.0076 mg/L	0.0076 mg/L	21:29:52
2	Co 228.616†	1906.5	2057.7	0.0521 mg/L	0.0521 mg/L	21:29:52
2	Cr 267.716†	11835.0	10320.0	0.0673 mg/L	0.0673 mg/L	21:29:31
2	Cu 324.752†	72477.5	69578.1	0.2658 mg/L	0.2658 mg/L	21:29:31
2	Fe 234.349†	730922.7	719842.8	13.75 mg/L	13.75 mg/L	21:29:26
2	Fe 238.204†	1631244.4	1608164.3	13.75 mg/L	13.75 mg/L	21:29:26
2	Mg 279.077†	32349.1	31370.8	1.245 mg/L	1.245 mg/L	21:29:31
2	Mn 257.610†	218791.0	213962.9	0.2329 mg/L	0.2329 mg/L	21:29:26
2	Mo 202.031†	116.3	77.4	0.0053 mg/L	0.0053 mg/L	21:29:52
2	Ni 231.604†	5142.1	5043.2	0.1617 mg/L	0.1617 mg/L	21:29:31
2	P 214.914†	4496.7	4392.4	3.156 mg/L	3.156 mg/L	21:29:52
2	Pb 220.353†	398.7	544.8	0.0609 mg/L	0.0609 mg/L	21:29:52
2	Sb 206.836†	14.4	-1.0	-0.0018 mg/L	-0.0018 mg/L	21:29:52
2	Se 196.026†	-0.7	3.3	0.0146 mg/L	0.0146 mg/L	21:29:52
2	Sn 189.927†	241.6	48.6	0.0072 mg/L	0.0072 mg/L	21:29:52
2	Sr 407.771†	546888.2	533219.7	0.0239 mg/L	0.0239 mg/L	21:29:26
2	Ti 337.279†	570742.0	565031.2	0.7134 mg/L	0.7134 mg/L	21:29:26
2	Tl 190.801†	1.1	-18.4	0.0085 mg/L	0.0085 mg/L	21:29:52
2	V 292.402†	6199.7	7743.1	0.0288 mg/L	0.0288 mg/L	21:29:31
2	Zn 213.857†	20486.0	19536.2	0.2513 mg/L	0.2513 mg/L	21:29:31

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Mean Data: 0606373-08

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
Y 371.029	3409448.0	1.01 mg/L		0.000			0.03%
Ag 328.068†	2810.1	0.0095 mg/L		0.00001	0.0095 mg/L	0.00001	0.11%
Al 237.313†	83329.0	9.363 mg/L		0.0677	9.363 mg/L	0.0677	0.72%
As 188.979†	82.7	0.1155 mg/L		0.00333	0.1155 mg/L	0.00333	2.88%
B 182.528†	-3.4	-0.0020 mg/L		0.00129	-0.0020 mg/L	0.00129	64.09%
Ba 233.527†	7494.6	0.0621 mg/L		0.00024	0.0621 mg/L	0.00024	0.39%
Be 313.107†	5480.2	0.0006 mg/L		0.00000	0.0006 mg/L	0.00000	0.05%
Ca 315.886†	465051.7	3.187 mg/L		0.0039	3.187 mg/L	0.0039	0.12%
Cd 228.802†	318.2	0.0076 mg/L		0.00003	0.0076 mg/L	0.00003	0.45%
Co 228.616†	2073.1	0.0525 mg/L		0.00057	0.0525 mg/L	0.00057	1.09%
Cr 267.716†	10375.9	0.0677 mg/L		0.00051	0.0677 mg/L	0.00051	0.76%
Cu 324.752†	69788.9	0.2666 mg/L		0.00113	0.2666 mg/L	0.00113	0.43%
Fe 234.349†	720505.5	13.77 mg/L		0.018	13.77 mg/L	0.018	0.13%
Fe 238.204†	1610837.2	13.77 mg/L		0.032	13.77 mg/L	0.032	0.23%
K 766.490†	836.1	0.4624 mg/L		0.00174	0.4624 mg/L	0.00174	0.38%
Li 670.784†	145.9	0.0019 mg/L		0.00047	0.0019 mg/L	0.00047	25.16%
Mg 279.077†	31565.6	1.253 mg/L		0.0111	1.253 mg/L	0.0111	0.88%
Mn 257.610†	214237.5	0.2332 mg/L		0.00043	0.2332 mg/L	0.00043	0.18%
Mo 202.031†	79.8	0.0054 mg/L		0.00022	0.0054 mg/L	0.00022	4.07%
Na 589.592	43915.2	5.234 mg/L		0.0163	5.234 mg/L	0.0163	0.31%

Ni 231.604†	5035.8	0.1614 mg/L	0.00033	0.1614 mg/L	0.00033	0.21%
P 214.914†	4410.1	3.168 mg/L	0.0179	3.168 mg/L	0.0179	0.56%
Pb 220.353†	534.9	0.0598 mg/L	0.00158	0.0598 mg/L	0.00158	2.64%
Sb 206.836†	-3.8	-0.0032 mg/L	0.00191	-0.0032 mg/L	0.00191	60.21%
Se 196.026†	2.2	0.0131 mg/L	0.00210	0.0131 mg/L	0.00210	16.06%
Sn 189.927†	45.8	0.0065 mg/L	0.00103	0.0065 mg/L	0.00103	15.88%
Sr 407.771†	533248.0	0.0239 mg/L	0.00000	0.0239 mg/L	0.00000	0.01%
Ti 337.279†	564477.4	0.7127 mg/L	0.00099	0.7127 mg/L	0.00099	0.14%
Tl 190.801†	-20.5	0.0068 mg/L	0.00244	0.0068 mg/L	0.00244	36.03%
V 292.402†	7771.3	0.0289 mg/L	0.00016	0.0289 mg/L	0.00016	0.56%
Zn 213.857†	19623.5	0.2524 mg/L	0.00160	0.2524 mg/L	0.00160	0.63%

Sequence No.: 31  
 Sample ID: BF62317-DUP1  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 23  
 Date Collected: 6/23/2006 9:31:32 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: BF62317-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	1354.6	764.5	0.4231 mg/L	0.4231 mg/L	21:33:08
1	Li 670.784†	260.9	85.3	0.0001 mg/L	0.0001 mg/L	21:33:08
1	Na 589.592	44326.6	45139.9	5.383 mg/L	5.383 mg/L	21:33:08
1	Y 371.029	3436934.6	3436934.6	1.02 mg/L		21:33:23
1	Ag 328.068†	-370.0	2191.6	0.0074 mg/L	0.0074 mg/L	21:33:28
1	Al 237.313†	92358.4	90457.1	10.17 mg/L	10.17 mg/L	21:33:28
1	As 188.979†	104.0	97.1	0.1351 mg/L	0.1351 mg/L	21:33:49
1	B 182.528†	-5.3	-2.4	0.0001 mg/L	0.0001 mg/L	21:33:49
1	Ba 233.527†	7994.2	8005.0	0.0664 mg/L	0.0664 mg/L	21:33:28
1	Be 313.107†	8707.0	6320.3	0.0006 mg/L	0.0006 mg/L	21:33:28
1	Ca 315.886†	539182.1	525952.9	3.604 mg/L	3.604 mg/L	21:33:23
1	Cd 228.802†	516.7	390.1	0.0094 mg/L	0.0094 mg/L	21:33:49
1	Co 228.616†	3049.5	3161.8	0.0807 mg/L	0.0807 mg/L	21:33:49
1	Cr 267.716†	11187.4	9595.1	0.0626 mg/L	0.0626 mg/L	21:33:28
1	Cu 324.752†	48421.7	45473.6	0.1743 mg/L	0.1743 mg/L	21:33:28
1	Fe 234.349†	720070.2	703594.8	13.44 mg/L	13.44 mg/L	21:33:23
1	Fe 238.204†	1611946.5	1576720.9	13.48 mg/L	13.48 mg/L	21:33:23
1	Mg 279.077†	36150.3	34842.6	1.385 mg/L	1.385 mg/L	21:33:28
1	Mn 257.610†	237152.3	230251.8	0.2508 mg/L	0.2508 mg/L	21:33:23
1	Mo 202.031†	119.7	79.9	0.0054 mg/L	0.0054 mg/L	21:33:49
1	Ni 231.604†	5570.7	5423.2	0.1739 mg/L	0.1739 mg/L	21:33:28
1	P 214.914†	4605.8	4464.5	3.207 mg/L	3.207 mg/L	21:33:49
1	Pb 220.353†	321.0	465.7	0.0522 mg/L	0.0522 mg/L	21:33:49
1	Sb 206.836†	10.5	-4.9	-0.0037 mg/L	-0.0037 mg/L	21:33:49
1	Se 196.026†	-8.6	-4.3	0.0049 mg/L	0.0049 mg/L	21:33:49
1	Sn 189.927†	231.7	37.0	0.0043 mg/L	0.0043 mg/L	21:33:49
1	Sr 407.771†	602737.2	583678.1	0.0262 mg/L	0.0262 mg/L	21:33:23
1	Ti 337.279†	678657.4	666270.6	0.8411 mg/L	0.8411 mg/L	21:33:23
1	Tl 190.801†	-4.7	-24.1	0.0037 mg/L	0.0037 mg/L	21:33:49
1	V 292.402†	7442.0	8911.4	0.0334 mg/L	0.0334 mg/L	21:33:28
1	Zn 213.857†	16401.4	15380.4	0.1975 mg/L	0.1975 mg/L	21:33:28
2	K 766.490†	1408.5	821.1	0.4541 mg/L	0.4541 mg/L	21:33:13
2	Li 670.784†	249.7	75.0	-0.0002 mg/L	-0.0002 mg/L	21:33:13
2	Na 589.592	44280.5	45093.7	5.377 mg/L	5.377 mg/L	21:33:13
2	Y 371.029	3427419.5	3427419.5	1.02 mg/L		21:33:56
2	Ag 328.068†	-543.6	2020.3	0.0068 mg/L	0.0068 mg/L	21:34:01
2	Al 237.313†	92936.6	91275.5	10.26 mg/L	10.26 mg/L	21:34:01
2	As 188.979†	106.2	99.6	0.1384 mg/L	0.1384 mg/L	21:34:21
2	B 182.528†	-6.4	-3.6	-0.0025 mg/L	-0.0025 mg/L	21:34:21
2	Ba 233.527†	7987.5	8020.1	0.0665 mg/L	0.0665 mg/L	21:34:01
2	Be 313.107†	8772.0	6407.8	0.0006 mg/L	0.0006 mg/L	21:34:01
2	Ca 315.886†	535586.2	523888.5	3.590 mg/L	3.590 mg/L	21:33:56
2	Cd 228.802†	515.6	390.4	0.0094 mg/L	0.0094 mg/L	21:34:21
2	Co 228.616†	3020.8	3141.9	0.0802 mg/L	0.0802 mg/L	21:34:21
2	Cr 267.716†	11271.4	9707.9	0.0633 mg/L	0.0633 mg/L	21:34:01
2	Cu 324.752†	48822.1	45998.2	0.1763 mg/L	0.1763 mg/L	21:34:01
2	Fe 234.349†	716603.3	702148.5	13.42 mg/L	13.42 mg/L	21:33:56
2	Fe 238.204†	1601343.1	1570693.4	13.43 mg/L	13.43 mg/L	21:33:56
2	Mg 279.077†	36291.0	35079.0	1.394 mg/L	1.394 mg/L	21:34:01

2	Mn 257.610†	235940.2	229706.6	0.2502 mg/L	0.2502 mg/L	21:33:56
2	Mo 202.031†	102.6	63.4	0.0043 mg/L	0.0043 mg/L	21:34:21
2	Ni 231.604†	5593.5	5460.7	0.1751 mg/L	0.1751 mg/L	21:34:01
2	P 214.914†	4591.0	4462.6	3.206 mg/L	3.206 mg/L	21:34:21
2	Pb 220.353†	305.9	451.8	0.0506 mg/L	0.0506 mg/L	21:34:21
2	Sb 206.836†	17.8	2.3	-0.0003 mg/L	-0.0003 mg/L	21:34:21
2	Se 196.026†	-2.7	1.4	0.0121 mg/L	0.0121 mg/L	21:34:21
2	Sn 189.927†	239.2	44.9	0.0064 mg/L	0.0064 mg/L	21:34:21
2	Sr 407.771†	601214.9	583821.7	0.0262 mg/L	0.0262 mg/L	21:33:56
2	Ti 337.279†	676117.3	665621.6	0.8403 mg/L	0.8403 mg/L	21:33:56
2	Tl 190.801†	-3.2	-22.6	0.0049 mg/L	0.0049 mg/L	21:34:21
2	V 292.402†	7453.2	8942.7	0.0335 mg/L	0.0335 mg/L	21:34:01
2	Zn 213.857†	16502.6	15524.3	0.1993 mg/L	0.1993 mg/L	21:34:01

## Mean Data: BF62317-DUP1

Analyte	Mean Corrected		Calib Conc. Units	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
Y 371.029	3432177.0	1.02 mg/L	0.002			0.20%	
Ag 328.068†	2106.0	0.0071 mg/L	0.00042	0.0071 mg/L	0.00042	5.97%	
Al 237.313†	90866.3	10.22 mg/L	0.066	10.22 mg/L	0.066	0.64%	
As 188.979†	98.3	0.1367 mg/L	0.00236	0.1367 mg/L	0.00236	1.73%	
B 182.528†	-3.0	-0.0012 mg/L	0.00184	-0.0012 mg/L	0.00184	154.82%	
Ba 233.527†	8012.6	0.0664 mg/L	0.00009	0.0664 mg/L	0.00009	0.13%	
Be 313.107†	6364.0	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	2.24%	
Ca 315.886†	524920.7	3.597 mg/L	0.0100	3.597 mg/L	0.0100	0.28%	
Cd 228.802†	390.2	0.0094 mg/L	0.00001	0.0094 mg/L	0.00001	0.11%	
Co 228.616†	3151.9	0.0805 mg/L	0.00037	0.0805 mg/L	0.00037	0.46%	
Cr 267.716†	9651.5	0.0629 mg/L	0.00052	0.0629 mg/L	0.00052	0.82%	
Cu 324.752†	45735.9	0.1753 mg/L	0.00140	0.1753 mg/L	0.00140	0.80%	
Fe 234.349†	702871.7	13.43 mg/L	0.020	13.43 mg/L	0.020	0.15%	
Fe 238.204†	1573707.1	13.46 mg/L	0.036	13.46 mg/L	0.036	0.27%	
K 766.490†	792.8	0.4386 mg/L	0.02194	0.4386 mg/L	0.02194	5.00%	
Li 670.784†	80.2	0.0000 mg/L	0.00021	0.0000 mg/L	0.00021	>999.9%	
Mg 279.077†	34960.8	1.390 mg/L	0.0067	1.390 mg/L	0.0067	0.48%	
Mn 257.610†	229979.2	0.2505 mg/L	0.00042	0.2505 mg/L	0.00042	0.17%	
Mo 202.031†	71.6	0.0049 mg/L	0.00077	0.0049 mg/L	0.00077	15.68%	
Na 589.592	45116.8	5.380 mg/L	0.0040	5.380 mg/L	0.0040	0.07%	
Ni 231.604†	5442.0	0.1745 mg/L	0.00085	0.1745 mg/L	0.00085	0.49%	
P 214.914†	4463.6	3.206 mg/L	0.0010	3.206 mg/L	0.0010	0.03%	
Pb 220.353†	458.8	0.0514 mg/L	0.00110	0.0514 mg/L	0.00110	2.15%	
Sb 206.836†	-1.3	-0.0020 mg/L	0.00245	-0.0020 mg/L	0.00245	121.84%	
Se 196.026†	-1.5	0.0085 mg/L	0.00508	0.0085 mg/L	0.00508	59.56%	
Sn 189.927†	41.0	0.0053 mg/L	0.00148	0.0053 mg/L	0.00148	27.75%	
Sr 407.771†	583749.9	0.0262 mg/L	0.00000	0.0262 mg/L	0.00000	0.02%	
Ti 337.279†	665946.1	0.8407 mg/L	0.00058	0.8407 mg/L	0.00058	0.07%	
Tl 190.801†	-23.3	0.0043 mg/L	0.00087	0.0043 mg/L	0.00087	20.09%	
V 292.402†	8927.0	0.0334 mg/L	0.00008	0.0334 mg/L	0.00008	0.23%	
Zn 213.857†	15452.3	0.1984 mg/L	0.00131	0.1984 mg/L	0.00131	0.66%	

## Duplicate Check: BF62317-DUP1

Analyte	Expected	Measured	Std. Dev.	Units	Difference (%)
	Conc.	Conc.			
K 766.490	0.4624	0.4386	0.022	mg/L	5.3
Li 670.784	0.0019	0.0000	0.000	mg/L	201.9
Na 589.592	5.234	5.380	0.004	mg/L	2.8
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.0095	0.0071	0.000	mg/L	29.6
Al 237.313	9.363	10.22	0.066	mg/L	8.7
As 188.979	0.1155	0.1367	0.002	mg/L	16.8
B 182.528	-0.0020	-0.0012	0.002	mg/L	-51.4
Ba 233.527	0.0621	0.0664	0.000	mg/L	6.7
Be 313.107	0.0006	0.0006	0.000	mg/L	6.4
Ca 315.886	3.187	3.597	0.010	mg/L	12.1
Cd 228.802	0.0076	0.0094	0.000	mg/L	21.3
Co 228.616	0.0525	0.0805	0.000	mg/L	42.1
Cr 267.716	0.0677	0.0629	0.001	mg/L	7.3
Cu 324.752	0.2666	0.1753	0.001	mg/L	41.3
Fe 234.349	13.77	13.43	0.020	mg/L	2.5
Fe 238.204	13.77	13.46	0.036	mg/L	2.3
Mg 279.077	1.253	1.390	0.007	mg/L	10.3

Mn 257.610	0.2332	0.2505	0.000	mg/L	7.2
Mo 202.031	0.0054	0.0049	0.001	mg/L	10.4
Ni 231.604	0.1614	0.1745	0.001	mg/L	7.8
P 214.914	3.168	3.206	0.001	mg/L	1.2
Pb 220.353	0.0598	0.0514	0.001	mg/L	15.1
Sb 206.836	-0.0032	-0.0020	0.002	mg/L	-45.1
Se 196.026	0.0131	0.0085	0.005	mg/L	42.1
Sn 189.927	0.0065	0.0053	0.001	mg/L	19.5
Sr 407.771	0.0239	0.0262	0.000	mg/L	9.1
Ti 337.279	0.7127	0.8407	0.001	mg/L	16.5
Tl 190.801	0.0068	0.0043	0.001	mg/L	44.4
V 292.402	0.0289	0.0334	0.000	mg/L	14.3
Zn 213.857	0.2524	0.1984	0.001	mg/L	23.9

Sequence No.: 32

Sample ID: BF62317-MS1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 24

Date Collected: 6/23/2006 9:36:02 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: BF62317-MS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	42449.7	41985.6	23.02 mg/L	23.02 mg/L	21:37:35
1	Li 670.784†	16242.2	16109.4	0.4605 mg/L	0.4605 mg/L	21:37:35
1	Na 589.592	229199.6	230012.8	27.84 mg/L	27.84 mg/L	21:37:35
1	Y 371.029	3356513.6	3356513.6	0.998 mg/L		21:37:50
1	Ag 328.068†	61141.1	63835.0	0.2224 mg/L	0.2224 mg/L	21:37:56
1	Al 237.313†	110241.8	110547.5	12.43 mg/L	12.43 mg/L	21:37:56
1	As 188.979†	392.8	389.0	0.5338 mg/L	0.5338 mg/L	21:38:16
1	B 182.528†	183.4	186.6	0.4248 mg/L	0.4248 mg/L	21:38:16
1	Ba 233.527†	59079.6	59394.9	0.4948 mg/L	0.4948 mg/L	21:37:56
1	Be 313.107†	217606.4	215902.6	0.0437 mg/L	0.0437 mg/L	21:37:56
1	Ca 315.886†	1133150.0	1133927.2	7.778 mg/L	7.778 mg/L	21:37:50
1	Cd 228.802†	8930.5	8835.3	0.2177 mg/L	0.2177 mg/L	21:38:16
1	Co 228.616†	18757.2	18977.0	0.4940 mg/L	0.4940 mg/L	21:37:56
1	Cr 267.716†	78752.9	77577.8	0.5036 mg/L	0.5036 mg/L	21:37:56
1	Cu 324.752†	259329.2	258000.1	0.9818 mg/L	0.9818 mg/L	21:37:50
1	Fe 234.349†	831036.1	831702.6	15.89 mg/L	15.89 mg/L	21:37:50
1	Fe 238.204†	1850426.0	1853551.3	15.85 mg/L	15.85 mg/L	21:37:50
1	Mg 279.077†	140982.2	140762.6	5.641 mg/L	5.641 mg/L	21:37:56
1	Mn 257.610†	599755.5	599247.9	0.6568 mg/L	0.6568 mg/L	21:37:50
1	Mo 202.031†	6564.0	6541.8	0.4307 mg/L	0.4307 mg/L	21:38:16
1	Ni 231.604†	20292.1	20309.0	0.6506 mg/L	0.6506 mg/L	21:37:56
1	P 214.914†	10207.5	10187.1	7.285 mg/L	7.285 mg/L	21:38:16
1	Pb 220.353†	4003.8	4164.5	0.4709 mg/L	0.4709 mg/L	21:38:16
1	Sb 206.836†	740.6	727.1	0.3391 mg/L	0.3391 mg/L	21:38:16
1	Se 196.026†	650.9	656.4	0.8331 mg/L	0.8331 mg/L	21:38:16
1	Sn 189.927†	2017.9	1832.7	0.4805 mg/L	0.4805 mg/L	21:38:16
1	Sr 407.771†	1524135.6	1521323.9	0.0685 mg/L	0.0685 mg/L	21:37:50
1	Ti 337.279†	915280.8	919352.7	1.160 mg/L	1.160 mg/L	21:37:50
1	Tl 190.801†	548.1	529.9	0.4598 mg/L	0.4598 mg/L	21:38:16
1	V 292.402†	115696.7	117588.7	0.4713 mg/L	0.4713 mg/L	21:37:56
1	Zn 213.857†	47316.3	46750.8	0.6009 mg/L	0.6009 mg/L	21:37:56
2	K 766.490†	42175.5	41815.2	22.93 mg/L	22.93 mg/L	21:37:40
2	Li 670.784†	16169.6	16076.7	0.4596 mg/L	0.4596 mg/L	21:37:40
2	Na 589.592	226569.2	227382.4	27.52 mg/L	27.52 mg/L	21:37:40
2	Y 371.029	3348243.8	3348243.8	0.995 mg/L		21:38:23
2	Ag 328.068†	60843.4	63687.2	0.2219 mg/L	0.2219 mg/L	21:38:29
2	Al 237.313†	109844.1	110420.8	12.42 mg/L	12.42 mg/L	21:38:29
2	As 188.979†	392.1	389.3	0.5342 mg/L	0.5342 mg/L	21:38:49
2	B 182.528†	178.5	182.1	0.4147 mg/L	0.4147 mg/L	21:38:49
2	Ba 233.527†	58875.9	59336.5	0.4943 mg/L	0.4943 mg/L	21:38:29
2	Be 313.107†	216785.8	215616.9	0.0437 mg/L	0.0437 mg/L	21:38:29
2	Ca 315.886†	1131289.5	1134863.1	7.784 mg/L	7.784 mg/L	21:38:23
2	Cd 228.802†	8960.1	8887.2	0.2190 mg/L	0.2190 mg/L	21:38:49
2	Co 228.616†	18787.4	19053.8	0.4960 mg/L	0.4960 mg/L	21:38:29
2	Cr 267.716†	78542.6	77561.5	0.5035 mg/L	0.5035 mg/L	21:38:29
2	Cu 324.752†	259976.9	259292.9	0.9867 mg/L	0.9867 mg/L	21:38:23
2	Fe 234.349†	833160.9	835894.7	15.97 mg/L	15.97 mg/L	21:38:23

2	Fe 238.204†	1854688.7	1862415.2	15.93 mg/L	15.93 mg/L	21:38:23
2	Mg 279.077†	140768.5	140896.9	5.647 mg/L	5.647 mg/L	21:38:23
2	Mn 257.610†	600360.1	601340.1	0.6591 mg/L	0.6591 mg/L	21:38:23
2	Mo 202.031†	6573.9	6567.9	0.4324 mg/L	0.4324 mg/L	21:38:49
2	Ni 231.604†	20191.0	20257.7	0.6490 mg/L	0.6490 mg/L	21:38:29
2	P 214.914†	10246.4	10251.5	7.331 mg/L	7.331 mg/L	21:38:49
2	Pb 220.353†	4017.5	4188.2	0.4736 mg/L	0.4736 mg/L	21:38:49
2	Sb 206.836†	735.3	723.6	0.3374 mg/L	0.3374 mg/L	21:38:49
2	Se 196.026†	643.7	650.8	0.8260 mg/L	0.8260 mg/L	21:38:49
2	Sn 189.927†	2007.6	1827.3	0.4791 mg/L	0.4791 mg/L	21:38:49
2	Sr 407.771†	1524400.9	1525363.6	0.0687 mg/L	0.0687 mg/L	21:38:23
2	Ti 337.279†	914559.0	920893.2	1.162 mg/L	1.162 mg/L	21:38:23
2	Tl 190.801†	545.0	528.1	0.4583 mg/L	0.4583 mg/L	21:38:49
2	V 292.402†	115325.4	117502.1	0.4710 mg/L	0.4710 mg/L	21:38:29
2	Zn 213.857†	47208.0	46759.1	0.6010 mg/L	0.6010 mg/L	21:38:29

Mean Data: BF62317-MS1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3352378.7	0.996 mg/L	0.0017			0.17%
Ag 328.068†	63761.1	0.2221 mg/L	0.00036	0.2221 mg/L	0.00036	0.16%
Al 237.313†	110484.1	12.43 mg/L	0.010	12.43 mg/L	0.010	0.08%
As 188.979†	389.1	0.5340 mg/L	0.00026	0.5340 mg/L	0.00026	0.05%
B 182.528†	184.3	0.4198 mg/L	0.00716	0.4198 mg/L	0.00716	1.71%
Ba 233.527†	59365.7	0.4946 mg/L	0.00034	0.4946 mg/L	0.00034	0.07%
Be 313.107†	215759.8	0.0437 mg/L	0.00004	0.0437 mg/L	0.00004	0.10%
Ca 315.886†	1134395.2	7.781 mg/L	0.0045	7.781 mg/L	0.0045	0.06%
Cd 228.802†	8861.3	0.2183 mg/L	0.00091	0.2183 mg/L	0.00091	0.42%
Co 228.616†	19015.4	0.4950 mg/L	0.00142	0.4950 mg/L	0.00142	0.29%
Cr 267.716†	77569.6	0.5035 mg/L	0.00007	0.5035 mg/L	0.00007	0.01%
Cu 324.752†	258646.5	0.9843 mg/L	0.00348	0.9843 mg/L	0.00348	0.35%
Fe 234.349†	833798.7	15.93 mg/L	0.057	15.93 mg/L	0.057	0.36%
Fe 238.204†	1857983.3	15.89 mg/L	0.054	15.89 mg/L	0.054	0.34%
K 766.490†	41900.4	22.98 mg/L	0.066	22.98 mg/L	0.066	0.29%
Li 670.784†	16093.0	0.4600 mg/L	0.00066	0.4600 mg/L	0.00066	0.14%
Mg 279.077†	140829.7	5.644 mg/L	0.0038	5.644 mg/L	0.0038	0.07%
Mn 257.610†	600294.0	0.6579 mg/L	0.00163	0.6579 mg/L	0.00163	0.25%
Mo 202.031†	6554.9	0.4315 mg/L	0.00122	0.4315 mg/L	0.00122	0.28%
Na 589.592	228697.6	27.68 mg/L	0.226	27.68 mg/L	0.226	0.82%
Ni 231.604†	20283.3	0.6498 mg/L	0.00116	0.6498 mg/L	0.00116	0.18%
P 214.914†	10219.3	7.308 mg/L	0.0324	7.308 mg/L	0.0324	0.44%
Pb 220.353†	4176.4	0.4722 mg/L	0.00189	0.4722 mg/L	0.00189	0.40%
Sb 206.836†	725.4	0.3383 mg/L	0.00120	0.3383 mg/L	0.00120	0.35%
Se 196.026†	653.6	0.8296 mg/L	0.00501	0.8296 mg/L	0.00501	0.60%
Sn 189.927†	1830.0	0.4798 mg/L	0.00101	0.4798 mg/L	0.00101	0.21%
Sr 407.771†	1523343.7	0.0686 mg/L	0.00013	0.0686 mg/L	0.00013	0.19%
Ti 337.279†	920122.9	1.161 mg/L	0.0014	1.161 mg/L	0.0014	0.12%
Tl 190.801†	529.0	0.4591 mg/L	0.00103	0.4591 mg/L	0.00103	0.22%
V 292.402†	117545.4	0.4711 mg/L	0.00023	0.4711 mg/L	0.00023	0.05%
Zn 213.857†	46755.0	0.6009 mg/L	0.00008	0.6009 mg/L	0.00008	0.01%

Matrix Recovery Check: BF62317-MS1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	25.46	22.98	0.066	mg/L	90.1
Li 670.784	0.5019	0.4600	0.001	mg/L	91.6
Na 589.592	30.23	27.68	0.226	mg/L	89.8
Ag 328.068	0.2595	0.2221	0.000	mg/L	85.0
Al 237.313	11.86	12.43	0.010	mg/L	122.5
As 188.979	0.6155	0.5340	0.000	mg/L	83.7
B 182.528	0.4980	0.4198	0.007	mg/L	84.4
Ba 233.527	0.5621	0.4946	0.000	mg/L	86.5
Be 313.107	0.0506	0.0437	0.000	mg/L	86.2
Ca 315.886	8.187	7.781	0.005	mg/L	91.9
Cd 228.802	0.2576	0.2183	0.001	mg/L	84.3
Co 228.616	0.5525	0.4950	0.001	mg/L	88.5
Cr 267.716	0.5677	0.5035	0.000	mg/L	87.2
Cu 324.752	0.7666	0.9843	0.003	mg/L	143.5
Fe 234.349	16.27	15.93	0.057	mg/L	86.4
Fe 238.204	16.27	15.89	0.054	mg/L	84.6

Mg 279.077	6.253	5.644	0.004	mg/L	87.8
Mn 257.610	0.7332	0.6579	0.002	mg/L	85.0
Mo 202.031	0.5054	0.4315	0.001	mg/L	85.2
Ni 231.604	0.6614	0.6498	0.001	mg/L	97.7
P 214.914	8.168	7.308	0.032	mg/L	82.8
Pb 220.353	0.5598	0.4722	0.002	mg/L	82.5
Sb 206.836	0.4968	0.3383	0.001	mg/L	68.3
Se 196.026	1.013	0.8296	0.005	mg/L	81.7
Sn 189.927	0.5065	0.4798	0.001	mg/L	94.7
Sr 407.771	0.0739	0.0686	0.000	mg/L	89.5
Ti 337.279	1.213	1.161	0.001	mg/L	89.7
Tl 190.801	0.5068	0.4591	0.001	mg/L	90.5
V 292.402	0.5289	0.4711	0.000	mg/L	88.4
Zn 213.857	0.7524	0.6009	0.000	mg/L	69.7

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Sequence No.: 33                               Autosampler Location: 25
Sample ID: BF62317-SD1                       Date Collected: 6/23/2006 9:40:25 PM
Analyst:                                       Data Type: Original
Initial Sample Wt:                             Initial Sample Vol:
Dilution:                                     Sample Prep Vol:
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Replicate Data: BF62317-SD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	688.0	116.6	0.0679 mg/L	0.0679 mg/L	21:41:58
1	Li 670.784†	158.2	-14.1	-0.0027 mg/L	-0.0027 mg/L	21:41:58
1	Na 589.592	8589.1	9402.3	1.041 mg/L	1.041 mg/L	21:41:58
1	Y 371.029	3413986.1	3413986.1	1.01 mg/L		21:42:12
1	Ag 328.068†	-1718.0	860.9	0.0023 mg/L	0.0023 mg/L	21:42:17
1	Al 237.313†	17643.6	17439.4	1.962 mg/L	1.962 mg/L	21:42:17
1	As 188.979†	19.2	14.2	0.0222 mg/L	0.0222 mg/L	21:42:38
1	B 182.528†	-1.7	1.1	0.0080 mg/L	0.0080 mg/L	21:42:38
1	Ba 233.527†	1401.7	1561.2	0.0126 mg/L	0.0126 mg/L	21:42:38
1	Be 313.107†	3436.1	1183.6	0.0002 mg/L	0.0002 mg/L	21:42:17
1	Ca 315.886†	102727.2	99409.6	0.6779 mg/L	0.6779 mg/L	21:42:17
1	Cd 228.802†	192.0	73.5	0.0017 mg/L	0.0017 mg/L	21:42:38
1	Co 228.616†	264.4	437.4	0.0109 mg/L	0.0109 mg/L	21:42:38
1	Cr 267.716†	3517.9	2111.0	0.0135 mg/L	0.0135 mg/L	21:42:17
1	Cu 324.752†	16909.8	14739.8	0.0552 mg/L	0.0552 mg/L	21:42:17
1	Fe 234.349†	156063.0	152549.3	2.912 mg/L	2.912 mg/L	21:42:12
1	Fe 238.204†	348157.6	341965.6	2.920 mg/L	2.920 mg/L	21:42:12
1	Mg 279.077†	7368.4	6718.3	0.2578 mg/L	0.2578 mg/L	21:42:17
1	Mn 257.610†	48427.0	45838.8	0.0479 mg/L	0.0479 mg/L	21:42:17
1	Mo 202.031†	56.8	18.6	0.0014 mg/L	0.0014 mg/L	21:42:38
1	Ni 231.604†	1098.8	1053.2	0.0340 mg/L	0.0340 mg/L	21:42:38
1	P 214.914†	995.9	937.6	0.6936 mg/L	0.6936 mg/L	21:42:38
1	Pb 220.353†	-33.8	118.2	0.0119 mg/L	0.0119 mg/L	21:42:38
1	Sb 206.836†	7.9	-7.4	-0.0033 mg/L	-0.0033 mg/L	21:42:38
1	Se 196.026†	-7.4	-3.2	0.0063 mg/L	0.0063 mg/L	21:42:38
1	Sn 189.927†	137.4	-54.4	-0.0211 mg/L	-0.0211 mg/L	21:42:38
1	Sr 407.771†	120753.2	112687.8	0.0049 mg/L	0.0049 mg/L	21:42:12
1	Ti 337.279†	116664.1	116937.3	0.1482 mg/L	0.1482 mg/L	21:42:12
1	Tl 190.801†	1.3	-18.2	0.0068 mg/L	0.0068 mg/L	21:42:38
1	V 292.402†	25.5	1652.0	0.0067 mg/L	0.0067 mg/L	21:42:17
1	Zn 213.857†	4950.1	4204.0	0.0545 mg/L	0.0545 mg/L	21:42:38
2	K 766.490†	736.9	175.3	0.1001 mg/L	0.1001 mg/L	21:42:03
2	Li 670.784†	171.5	1.4	-0.0023 mg/L	-0.0023 mg/L	21:42:03
2	Na 589.592	8566.0	9379.2	1.038 mg/L	1.038 mg/L	21:42:03
2	Y 371.029	3364808.2	3364808.2	1.00 mg/L		21:42:44
2	Ag 328.068†	-1745.3	808.8	0.0021 mg/L	0.0021 mg/L	21:42:49
2	Al 237.313†	17464.4	17514.3	1.970 mg/L	1.970 mg/L	21:42:49
2	As 188.979†	19.3	14.5	0.0227 mg/L	0.0227 mg/L	21:43:09
2	B 182.528†	-4.4	-1.6	0.0019 mg/L	0.0019 mg/L	21:43:09
2	Ba 233.527†	1432.0	1611.7	0.0131 mg/L	0.0131 mg/L	21:43:09
2	Be 313.107†	3301.7	1098.7	0.0002 mg/L	0.0002 mg/L	21:42:49
2	Ca 315.886†	101222.1	99384.3	0.6778 mg/L	0.6778 mg/L	21:42:49
2	Cd 228.802†	186.1	70.4	0.0017 mg/L	0.0017 mg/L	21:43:09
2	Co 228.616†	264.8	441.6	0.0110 mg/L	0.0110 mg/L	21:43:09
2	Cr 267.716†	3436.3	2080.1	0.0133 mg/L	0.0133 mg/L	21:42:49
2	Cu 324.752†	16728.7	14802.2	0.0554 mg/L	0.0554 mg/L	21:42:49

2	Fe 234.349†	153105.9	151840.5	2.898 mg/L	2.898 mg/L	21:42:44
2	Fe 238.204†	342194.3	341017.7	2.912 mg/L	2.912 mg/L	21:42:44
2	Mg 279.077†	7320.2	6776.2	0.2601 mg/L	0.2601 mg/L	21:42:49
2	Mn 257.610†	47947.3	46056.6	0.0481 mg/L	0.0481 mg/L	21:42:49
2	Mo 202.031†	57.5	20.2	0.0015 mg/L	0.0015 mg/L	21:43:09
2	Ni 231.604†	1124.7	1094.9	0.0353 mg/L	0.0353 mg/L	21:43:09
2	P 214.914†	1011.4	967.5	0.7149 mg/L	0.7149 mg/L	21:43:09
2	Pb 220.353†	-47.1	104.4	0.0103 mg/L	0.0103 mg/L	21:43:09
2	Sb 206.836†	9.5	-5.7	-0.0024 mg/L	-0.0024 mg/L	21:43:09
2	Se 196.026†	-4.2	-0.1	0.0102 mg/L	0.0102 mg/L	21:43:09
2	Sn 189.927†	139.5	-50.3	-0.0200 mg/L	-0.0200 mg/L	21:43:09
2	Sr 407.771†	119196.4	112870.4	0.0049 mg/L	0.0049 mg/L	21:42:44
2	Ti 337.279†	115034.4	116988.1	0.1483 mg/L	0.1483 mg/L	21:42:44
2	Tl 190.801†	-6.2	-25.7	0.0007 mg/L	0.0007 mg/L	21:43:09
2	V 292.402†	-105.1	1521.8	0.0062 mg/L	0.0062 mg/L	21:42:49
2	Zn 213.857†	4993.8	4319.0	0.0560 mg/L	0.0560 mg/L	21:43:09

## Mean Data: BF62317-SD1

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3389397.2	1.01 mg/L		0.010			1.03%
Ag 328.068†	834.9	0.0022 mg/L		0.00013	0.0022 mg/L	0.00013	5.78%
Al 237.313†	17476.9	1.966 mg/L		0.0060	1.966 mg/L	0.0060	0.31%
As 188.979†	14.4	0.0225 mg/L		0.00035	0.0225 mg/L	0.00035	1.55%
B 182.528†	-0.3	0.0050 mg/L		0.00431	0.0050 mg/L	0.00431	86.67%
Ba 233.527†	1586.4	0.0129 mg/L		0.00030	0.0129 mg/L	0.00030	2.32%
Be 313.107†	1141.1	0.0002 mg/L		0.00001	0.0002 mg/L	0.00001	5.85%
Ca 315.886†	99397.0	0.6779 mg/L		0.00012	0.6779 mg/L	0.00012	0.02%
Cd 228.802†	71.9	0.0017 mg/L		0.00006	0.0017 mg/L	0.00006	3.34%
Co 228.616†	439.5	0.0109 mg/L		0.00008	0.0109 mg/L	0.00008	0.72%
Cr 267.716†	2095.5	0.0134 mg/L		0.00014	0.0134 mg/L	0.00014	1.06%
Cu 324.752†	14771.0	0.0553 mg/L		0.00017	0.0553 mg/L	0.00017	0.30%
Fe 234.349†	152194.9	2.905 mg/L		0.0096	2.905 mg/L	0.0096	0.33%
Fe 238.204†	341491.7	2.916 mg/L		0.0057	2.916 mg/L	0.0057	0.20%
K 766.490†	146.0	0.0840 mg/L		0.02278	0.0840 mg/L	0.02278	27.13%
Li 670.784†	-6.4	-0.0025 mg/L		0.00032	-0.0025 mg/L	0.00032	12.68%
Mg 279.077†	6747.2	0.2589 mg/L		0.00165	0.2589 mg/L	0.00165	0.64%
Mn 257.610†	45947.7	0.0480 mg/L		0.00017	0.0480 mg/L	0.00017	0.35%
Mo 202.031†	19.4	0.0014 mg/L		0.00007	0.0014 mg/L	0.00007	4.92%
Na 589.592	9390.8	1.039 mg/L		0.0020	1.039 mg/L	0.0020	0.19%
Ni 231.604†	1074.1	0.0347 mg/L		0.00094	0.0347 mg/L	0.00094	2.72%
P 214.914†	952.5	0.7042 mg/L		0.01503	0.7042 mg/L	0.01503	2.13%
Pb 220.353†	111.3	0.0111 mg/L		0.00110	0.0111 mg/L	0.00110	9.96%
Sb 206.836†	-6.6	-0.0029 mg/L		0.00061	-0.0029 mg/L	0.00061	21.28%
Se 196.026†	-1.7	0.0082 mg/L		0.00274	0.0082 mg/L	0.00274	33.21%
Sn 189.927†	-52.4	-0.0205 mg/L		0.00076	-0.0205 mg/L	0.00076	3.72%
Sr 407.771†	112779.1	0.0049 mg/L		0.00001	0.0049 mg/L	0.00001	0.12%
Ti 337.279†	116962.7	0.1482 mg/L		0.00005	0.1482 mg/L	0.00005	0.03%
Tl 190.801†	-22.0	0.0037 mg/L		0.00433	0.0037 mg/L	0.00433	116.36%
V 292.402†	1586.9	0.0065 mg/L		0.00036	0.0065 mg/L	0.00036	5.61%
Zn 213.857†	4261.5	0.0552 mg/L		0.00105	0.0552 mg/L	0.00105	1.89%

## Dilution Check: BF62317-SD1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	0.0925	0.0840	0.023	mg/L	9.2
Li 670.784	0.0004	-0.0025	0.000	mg/L	764.2
Na 589.592	1.047	1.039	0.002	mg/L	0.7
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.0019	0.0022	0.000	mg/L	16.6
Al 237.313	1.873	1.966	0.006	mg/L	5.0
As 188.979	0.0231	0.0225	0.000	mg/L	2.7
B 182.528	-0.0004	0.0050	0.004	mg/L	-1336.2
Ba 233.527	0.0124	0.0129	0.000	mg/L	3.5
Be 313.107	0.0001	0.0002	0.000	mg/L	90.4
Ca 315.886	0.6373	0.6779	0.000	mg/L	6.4
Cd 228.802	0.0015	0.0017	0.000	mg/L	12.3
Co 228.616	0.0105	0.0109	0.000	mg/L	4.3
Cr 267.716	0.0135	0.0134	0.000	mg/L	1.0
Cu 324.752	0.0533	0.0553	0.000	mg/L	3.7

Fe 234.349	2.753	2.905	0.010	mg/L	5.5
Fe 238.204	2.755	2.916	0.006	mg/L	5.8
Mg 279.077	0.2506	0.2589	0.002	mg/L	3.3
Mn 257.610	0.0466	0.0480	0.000	mg/L	3.0
Mo 202.031	0.0011	0.0014	0.000	mg/L	33.0
Ni 231.604	0.0323	0.0347	0.001	mg/L	7.4
P 214.914	0.6337	0.7042	0.015	mg/L	11.1
Pb 220.353	0.0120	0.0111	0.001	mg/L	7.3
Sb 206.836	-0.0006	-0.0029	0.001	mg/L	-350.7
Se 196.026	0.0026	0.0082	0.003	mg/L	215.4
Sn 189.927	0.0013	-0.0205	0.001	mg/L	1678.4
Sr 407.771	0.0048	0.0049	0.000	mg/L	1.9
Ti 337.279	0.1425	0.1482	0.000	mg/L	4.0
Tl 190.801	0.0014	0.0037	0.004	mg/L	174.6
V 292.402	0.0058	0.0065	0.000	mg/L	12.0
Zn 213.857	0.0505	0.0552	0.001	mg/L	9.4

Sequence No.: 34

Autosampler Location: 26

Sample ID: BF62317-PDS1

Date Collected: 6/23/2006 9:44:47 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: BF62317-PDS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	46233.5	45695.6	25.06 mg/L	25.06 mg/L	21:46:23
1	Li 670.784†	17658.0	17497.0	0.5004 mg/L	0.5004 mg/L	21:46:23
1	Na 589.592	245091.6	245904.9	29.77 mg/L	29.77 mg/L	21:46:23
1	Y 371.029	3362496.1	3362496.1	0.999 mg/L	0.999 mg/L	21:46:40
1	Ag 328.068†	68942.5	71531.4	0.2492 mg/L	0.2492 mg/L	21:46:46
1	Al 237.313†	102003.4	102108.3	11.48 mg/L	11.48 mg/L	21:46:46
1	As 188.979†	422.1	417.6	0.5730 mg/L	0.5730 mg/L	21:47:06
1	B 182.528†	205.1	207.9	0.4728 mg/L	0.4728 mg/L	21:47:06
1	Ba 233.527†	63867.9	64080.3	0.5339 mg/L	0.5339 mg/L	21:46:46
1	Be 313.107†	235952.5	233870.1	0.0475 mg/L	0.0475 mg/L	21:46:46
1	Ca 315.886†	1174057.1	1172834.4	8.045 mg/L	8.045 mg/L	21:46:40
1	Cd 228.802†	9913.8	9803.1	0.2414 mg/L	0.2414 mg/L	21:47:06
1	Co 228.616†	19778.4	19965.3	0.5200 mg/L	0.5200 mg/L	21:46:46
1	Cr 267.716†	85893.2	84581.2	0.5490 mg/L	0.5490 mg/L	21:46:46
1	Cu 324.752†	201553.4	199732.4	0.7605 mg/L	0.7605 mg/L	21:46:46
1	Fe 234.349†	834902.2	834088.7	15.93 mg/L	15.93 mg/L	21:46:40
1	Fe 238.204†	1860704.3	1860535.1	15.91 mg/L	15.91 mg/L	21:46:40
1	Mg 279.077†	146593.9	146125.7	5.857 mg/L	5.857 mg/L	21:46:46
1	Mn 257.610†	653911.6	652362.0	0.7152 mg/L	0.7152 mg/L	21:46:40
1	Mo 202.031†	7403.5	7370.0	0.4852 mg/L	0.4852 mg/L	21:47:06
1	Ni 231.604†	19957.8	19938.4	0.6388 mg/L	0.6388 mg/L	21:46:46
1	P 214.914†	10742.9	10704.6	7.654 mg/L	7.654 mg/L	21:47:06
1	Pb 220.353†	4567.7	4721.6	0.5339 mg/L	0.5339 mg/L	21:47:06
1	Sb 206.836†	937.9	923.2	0.4325 mg/L	0.4325 mg/L	21:47:06
1	Se 196.026†	719.3	723.7	0.9174 mg/L	0.9174 mg/L	21:47:06
1	Sn 189.927†	2106.9	1918.2	0.5031 mg/L	0.5031 mg/L	21:47:06
1	Sr 407.771†	1611060.1	1605574.6	0.0724 mg/L	0.0724 mg/L	21:46:40
1	Ti 337.279†	865399.9	867814.2	1.095 mg/L	1.095 mg/L	21:46:40
1	Tl 190.801†	609.1	589.9	0.5098 mg/L	0.5098 mg/L	21:47:06
1	V 292.402†	125646.1	127336.9	0.5110 mg/L	0.5110 mg/L	21:46:46
1	Zn 213.857†	55474.9	54829.2	0.7055 mg/L	0.7055 mg/L	21:46:46
2	K 766.490†	46089.4	45685.9	25.05 mg/L	25.05 mg/L	21:46:28
2	Li 670.784†	17653.6	17544.1	0.5017 mg/L	0.5017 mg/L	21:46:28
2	Na 589.592	243965.0	244778.2	29.64 mg/L	29.64 mg/L	21:46:28
2	Y 371.029	3352724.5	3352724.5	0.997 mg/L	0.997 mg/L	21:47:15
2	Ag 328.068†	69012.5	71802.6	0.2502 mg/L	0.2502 mg/L	21:47:20
2	Al 237.313†	102801.2	103206.3	11.60 mg/L	11.60 mg/L	21:47:20
2	As 188.979†	418.2	414.9	0.5693 mg/L	0.5693 mg/L	21:47:40
2	B 182.528†	206.7	210.2	0.4779 mg/L	0.4779 mg/L	21:47:40
2	Ba 233.527†	64331.1	64731.3	0.5393 mg/L	0.5393 mg/L	21:47:20
2	Be 313.107†	237071.6	235681.0	0.0479 mg/L	0.0479 mg/L	21:47:20
2	Ca 315.886†	1168789.1	1170971.9	8.032 mg/L	8.032 mg/L	21:47:15
2	Cd 228.802†	9933.2	9851.5	0.2427 mg/L	0.2427 mg/L	21:47:40
2	Co 228.616†	19939.2	20184.3	0.5258 mg/L	0.5258 mg/L	21:47:20



2	Cr 267.716†	86460.3	85400.7	0.5543 mg/L	0.5543 mg/L	21:47:20
2	Cu 324.752†	202425.9	201195.7	0.7661 mg/L	0.7661 mg/L	21:47:20
2	Fe 234.349†	832296.5	833908.6	15.93 mg/L	15.93 mg/L	21:47:15
2	Fe 238.204†	1855789.9	1861029.7	15.92 mg/L	15.92 mg/L	21:47:15
2	Mg 279.077†	147545.7	147508.3	5.913 mg/L	5.913 mg/L	21:47:20
2	Mn 257.610†	651820.1	652170.2	0.7150 mg/L	0.7150 mg/L	21:47:15
2	Mo 202.031†	7461.7	7450.0	0.4904 mg/L	0.4904 mg/L	21:47:40
2	Ni 231.604†	20156.0	20195.4	0.6470 mg/L	0.6470 mg/L	21:47:20
2	P 214.914†	10731.4	10724.4	7.668 mg/L	7.668 mg/L	21:47:40
2	Pb 220.353†	4581.8	4749.0	0.5370 mg/L	0.5370 mg/L	21:47:40
2	Sb 206.836†	943.3	931.4	0.4364 mg/L	0.4364 mg/L	21:47:40
2	Se 196.026†	716.0	722.5	0.9160 mg/L	0.9160 mg/L	21:47:40
2	Sn 189.927†	2101.5	1918.9	0.5033 mg/L	0.5033 mg/L	21:47:40
2	Sr 407.771†	1609244.8	1608451.0	0.0725 mg/L	0.0725 mg/L	21:47:15
2	Ti 337.279†	863533.0	868464.4	1.096 mg/L	1.096 mg/L	21:47:15
2	Tl 190.801†	609.9	592.5	0.5118 mg/L	0.5118 mg/L	21:47:40
2	V 292.402†	126460.4	128520.4	0.5158 mg/L	0.5158 mg/L	21:47:20
2	Zn 213.857†	55899.7	55417.2	0.7131 mg/L	0.7131 mg/L	21:47:20

## Mean Data: BF62317-PDS1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	3357610.3	0.998	mg/L	0.0021				0.21%
Ag 328.068†	71667.0	0.2497	mg/L	0.00067	0.2497	mg/L	0.00067	0.27%
Al 237.313†	102657.3	11.54	mg/L	0.088	11.54	mg/L	0.088	0.76%
As 188.979†	416.3	0.5712	mg/L	0.00258	0.5712	mg/L	0.00258	0.45%
B 182.528†	209.0	0.4753	mg/L	0.00357	0.4753	mg/L	0.00357	0.75%
Ba 233.527†	64405.8	0.5366	mg/L	0.00384	0.5366	mg/L	0.00384	0.72%
Be 313.107†	234775.5	0.0477	mg/L	0.00027	0.0477	mg/L	0.00027	0.56%
Ca 315.886†	1171903.2	8.039	mg/L	0.0090	8.039	mg/L	0.0090	0.11%
Cd 228.802†	9827.3	0.2421	mg/L	0.00088	0.2421	mg/L	0.00088	0.36%
Co 228.616†	20074.8	0.5229	mg/L	0.00405	0.5229	mg/L	0.00405	0.77%
Cr 267.716†	84991.0	0.5516	mg/L	0.00376	0.5516	mg/L	0.00376	0.68%
Cu 324.752†	200464.1	0.7633	mg/L	0.00393	0.7633	mg/L	0.00393	0.51%
Fe 234.349†	833998.6	15.93	mg/L	0.002	15.93	mg/L	0.002	0.02%
Fe 238.204†	1860782.4	15.91	mg/L	0.003	15.91	mg/L	0.003	0.02%
K 766.490†	45690.7	25.06	mg/L	0.004	25.06	mg/L	0.004	0.02%
Li 670.784†	17520.5	0.5010	mg/L	0.00096	0.5010	mg/L	0.00096	0.19%
Mg 279.077†	146817.0	5.885	mg/L	0.0393	5.885	mg/L	0.0393	0.67%
Mn 257.610†	652266.1	0.7151	mg/L	0.00015	0.7151	mg/L	0.00015	0.02%
Mo 202.031†	7410.0	0.4878	mg/L	0.00372	0.4878	mg/L	0.00372	0.76%
Na 589.592	245341.5	29.71	mg/L	0.097	29.71	mg/L	0.097	0.33%
Ni 231.604†	20066.9	0.6429	mg/L	0.00582	0.6429	mg/L	0.00582	0.91%
P 214.914†	10714.5	7.661	mg/L	0.0100	7.661	mg/L	0.0100	0.13%
Pb 220.353†	4735.3	0.5354	mg/L	0.00221	0.5354	mg/L	0.00221	0.41%
Sb 206.836†	927.3	0.4344	mg/L	0.00272	0.4344	mg/L	0.00272	0.63%
Se 196.026†	723.1	0.9167	mg/L	0.00104	0.9167	mg/L	0.00104	0.11%
Sn 189.927†	1918.5	0.5032	mg/L	0.00013	0.5032	mg/L	0.00013	0.03%
Sr 407.771†	1607012.8	0.0724	mg/L	0.00009	0.0724	mg/L	0.00009	0.13%
Ti 337.279†	868139.3	1.096	mg/L	0.0006	1.096	mg/L	0.0006	0.05%
Tl 190.801†	591.2	0.5108	mg/L	0.00148	0.5108	mg/L	0.00148	0.29%
V 292.402†	127928.6	0.5134	mg/L	0.00338	0.5134	mg/L	0.00338	0.66%
Zn 213.857†	55123.2	0.7093	mg/L	0.00535	0.7093	mg/L	0.00535	0.75%

## Matrix Recovery Check: BF62317-PDS1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	25.46	25.06	0.004	mg/L	98.4
Li 670.784	0.5019	0.5010	0.001	mg/L	99.8
Na 589.592	30.23	29.71	0.097	mg/L	97.9
Ag 328.068	0.2595	0.2497	0.001	mg/L	96.1
Al 237.313	11.86	11.54	0.088	mg/L	87.1
As 188.979	0.6155	0.5712	0.003	mg/L	91.1
B 182.528	0.4980	0.4753	0.004	mg/L	95.5
Ba 233.527	0.5621	0.5366	0.004	mg/L	94.9
Be 313.107	0.0506	0.0477	0.000	mg/L	94.3
Ca 315.886	8.187	8.039	0.009	mg/L	97.0
Cd 228.802	0.2576	0.2421	0.001	mg/L	93.8
Co 228.616	0.5525	0.5229	0.004	mg/L	94.1
Cr 267.716	0.5677	0.5516	0.004	mg/L	96.8

Cu 324.752	0.7666	0.7633	0.004	mg/L	99.3
Fe 234.349	16.27	15.93	0.002	mg/L	86.6
Fe 238.204	16.27	15.91	0.003	mg/L	85.6
Mg 279.077	6.253	5.885	0.039	mg/L	92.6
Mn 257.610	0.7332	0.7151	0.000	mg/L	96.4
Mo 202.031	0.5054	0.4878	0.004	mg/L	96.5
Ni 231.604	0.6614	0.6429	0.006	mg/L	96.3
P 214.914	8.168	7.661	0.010	mg/L	89.9
Pb 220.353	0.5598	0.5354	0.002	mg/L	95.1
Sb 206.836	0.4968	0.4344	0.003	mg/L	87.5
Se 196.026	1.013	0.9167	0.001	mg/L	90.4
Sn 189.927	0.5065	0.5032	0.000	mg/L	99.3
Sr 407.771	0.0739	0.0724	0.000	mg/L	97.1
Ti 337.279	1.213	1.096	0.001	mg/L	76.6
Tl 190.801	0.5068	0.5108	0.001	mg/L	100.8
V 292.402	0.5289	0.5134	0.003	mg/L	96.9
Zn 213.857	0.7524	0.7093	0.005	mg/L	91.4

Sequence No.: 35

Sample ID: 0606373-09

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 27

Date Collected: 6/23/2006 9:49:18 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 0606373-09

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	3247.4	2686.9	1.477 mg/L	1.477 mg/L	21:50:52
1	Li 670.784†	589.2	419.3	0.0097 mg/L	0.0097 mg/L	21:50:52
1	Na 589.592	45899.1	46712.3	5.574 mg/L	5.574 mg/L	21:50:52
1	Y 371.029	3363301.5	3363301.5	1.000 mg/L		21:51:15
1	Ag 328.068†	115190.0	117774.8	0.4106 mg/L	0.4106 mg/L	21:51:15
1	Al 237.313†	139288.2	139378.7	15.61 mg/L	15.61 mg/L	21:51:20
1	As 188.979†	21.0	16.2	0.0244 mg/L	0.0244 mg/L	21:51:41
1	B 182.528†	1.7	4.4	0.0155 mg/L	0.0155 mg/L	21:51:41
1	Ba 233.527†	21593.2	21778.9	0.1812 mg/L	0.1812 mg/L	21:51:20
1	Be 313.107†	10137.6	7937.9	0.0013 mg/L	0.0013 mg/L	21:51:20
1	Ca 315.886†	760099.2	758483.9	5.200 mg/L	5.200 mg/L	21:51:15
1	Cd 228.802†	625.3	509.8	0.0128 mg/L	0.0128 mg/L	21:51:41
1	Co 228.616†	251.9	428.8	0.0094 mg/L	0.0094 mg/L	21:51:41
1	Cr 267.716†	61215.5	59876.4	0.3895 mg/L	0.3895 mg/L	21:51:20
1	Cu 324.752†	9347051.6	9347641.8	35.49 mg/L	35.49 mg/L	21:51:08
1	Fe 234.349†	1731903.6	1731131.3	33.08 mg/L	33.08 mg/L	21:51:15
1	Fe 238.204†	3826538.2	3826451.8	32.73 mg/L	32.73 mg/L	21:51:15
1	Mg 279.077†	87846.6	87327.5	3.494 mg/L	3.494 mg/L	21:51:20
1	Mn 257.610†	1077240.0	1075647.6	1.181 mg/L	1.181 mg/L	21:51:15
1	Mo 202.031†	172.1	134.9	0.0090 mg/L	0.0090 mg/L	21:51:41
1	Ni 231.604†	9665.6	9638.6	0.3087 mg/L	0.3087 mg/L	21:51:20
1	P 214.914†	15727.1	15687.6	11.21 mg/L	11.21 mg/L	21:51:20
1	Pb 220.353†	36506.7	36668.0	4.127 mg/L	4.127 mg/L	21:51:20
1	Sb 206.836†	14.4	-0.8	-0.0079 mg/L	-0.0079 mg/L	21:51:41
1	Se 196.026†	-4.0	0.1	0.0105 mg/L	0.0105 mg/L	21:51:41
1	Sn 189.927†	7481.5	7293.7	1.928 mg/L	1.928 mg/L	21:51:20
1	Sr 407.771†	741194.7	735089.4	0.0330 mg/L	0.0330 mg/L	21:51:15
1	Ti 337.279†	544276.6	546397.3	0.6899 mg/L	0.6899 mg/L	21:51:15
1	Tl 190.801†	-11.0	-30.5	0.0148 mg/L	0.0148 mg/L	21:51:41
1	V 292.402†	22053.7	23686.5	0.0895 mg/L	0.0895 mg/L	21:51:20
1	Zn 213.857†	1159883.7	1159521.7	15.00 mg/L	15.00 mg/L	21:51:15
2	K 766.490†	3216.4	2642.5	1.453 mg/L	1.453 mg/L	21:50:58
2	Li 670.784†	599.5	427.2	0.0100 mg/L	0.0100 mg/L	21:50:58
2	Na 589.592	46125.3	46938.5	5.601 mg/L	5.601 mg/L	21:50:58
2	Y 371.029	3377343.6	3377343.6	1.00 mg/L		21:51:55
2	Ag 328.068†	115137.4	117243.3	0.4087 mg/L	0.4087 mg/L	21:51:55
2	Al 237.313†	140375.1	139882.1	15.67 mg/L	15.67 mg/L	21:52:00
2	As 188.979†	19.9	15.1	0.0229 mg/L	0.0229 mg/L	21:52:20
2	B 182.528†	3.3	6.0	0.0192 mg/L	0.0192 mg/L	21:52:20
2	Ba 233.527†	21681.6	21777.2	0.1812 mg/L	0.1812 mg/L	21:52:00
2	Be 313.107†	10215.1	7972.9	0.0013 mg/L	0.0013 mg/L	21:52:00
2	Ca 315.886†	762026.8	757243.0	5.192 mg/L	5.192 mg/L	21:51:55
2	Cd 228.802†	617.5	499.4	0.0125 mg/L	0.0125 mg/L	21:52:20

2	Co 228.616†	257.8	433.7	0.0096 mg/L	0.0096 mg/L	21:52:20
2	Cr 267.716†	61791.1	60195.1	0.3916 mg/L	0.3916 mg/L	21:52:00
2	Cu 324.752†	9302331.9	9264223.1	35.18 mg/L	35.18 mg/L	21:51:47
2	Fe 234.349†	1740609.1	1732600.2	33.11 mg/L	33.11 mg/L	21:51:55
2	Fe 238.204†	3842129.0	3826068.0	32.73 mg/L	32.73 mg/L	21:51:55
2	Mg 279.077†	88145.6	87259.9	3.491 mg/L	3.491 mg/L	21:52:00
2	Mn 257.610†	1080521.0	1074435.8	1.179 mg/L	1.179 mg/L	21:51:55
2	Mo 202.031†	176.1	138.1	0.0093 mg/L	0.0093 mg/L	21:52:20
2	Ni 231.604†	9684.9	9617.6	0.3080 mg/L	0.3080 mg/L	21:52:00
2	P 214.914†	15811.4	15706.2	11.22 mg/L	11.22 mg/L	21:52:00
2	Pb 220.353†	36538.4	36547.8	4.114 mg/L	4.114 mg/L	21:52:00
2	Sb 206.836†	10.8	-4.4	-0.0097 mg/L	-0.0097 mg/L	21:52:20
2	Se 196.026†	-5.2	-1.2	0.0089 mg/L	0.0089 mg/L	21:52:20
2	Sn 189.927†	7538.8	7319.7	1.935 mg/L	1.935 mg/L	21:52:00
2	Sr 407.771†	745479.4	736274.9	0.0331 mg/L	0.0331 mg/L	21:51:55
2	Ti 337.279†	545858.9	545709.8	0.6891 mg/L	0.6891 mg/L	21:51:55
2	Tl 190.801†	-11.5	-31.0	0.0145 mg/L	0.0145 mg/L	21:52:20
2	V 292.402†	22266.3	23806.6	0.0900 mg/L	0.0900 mg/L	21:52:00
2	Zn 213.857†	1168210.4	1162992.2	15.04 mg/L	15.04 mg/L	21:51:55

Mean Data: 0606373-09

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3370322.6	1.00 mg/L	0.003			0.29%
Ag 328.068†	117509.1	0.4096 mg/L	0.00131	0.4096 mg/L	0.00131	0.32%
Al 237.313†	139630.4	15.64 mg/L	0.040	15.64 mg/L	0.040	0.26%
As 188.979†	15.7	0.0236 mg/L	0.00110	0.0236 mg/L	0.00110	4.65%
B 182.528†	5.2	0.0173 mg/L	0.00259	0.0173 mg/L	0.00259	14.96%
Ba 233.527†	21778.1	0.1812 mg/L	0.00001	0.1812 mg/L	0.00001	0.01%
Be 313.107†	7955.4	0.0013 mg/L	0.00001	0.0013 mg/L	0.00001	0.48%
Ca 315.886†	757863.4	5.196 mg/L	0.0060	5.196 mg/L	0.0060	0.12%
Cd 228.802†	504.6	0.0126 mg/L	0.00017	0.0126 mg/L	0.00017	1.38%
Co 228.616†	431.2	0.0095 mg/L	0.00009	0.0095 mg/L	0.00009	0.96%
Cr 267.716†	60035.7	0.3906 mg/L	0.00147	0.3906 mg/L	0.00147	0.38%
Cu 324.752†	9305932.4	35.34 mg/L	0.224	35.34 mg/L	0.224	0.63%
Fe 234.349†	1731865.8	33.10 mg/L	0.020	33.10 mg/L	0.020	0.06%
Fe 238.204†	3826259.9	32.73 mg/L	0.002	32.73 mg/L	0.002	0.01%
K 766.490†	2664.7	1.465 mg/L	0.0172	1.465 mg/L	0.0172	1.17%
Li 670.784†	423.2	0.0098 mg/L	0.00016	0.0098 mg/L	0.00016	1.63%
Mg 279.077†	87293.7	3.493 mg/L	0.0019	3.493 mg/L	0.0019	0.06%
Mn 257.610†	1075041.7	1.180 mg/L	0.0009	1.180 mg/L	0.0009	0.08%
Mo 202.031†	136.5	0.0091 mg/L	0.00015	0.0091 mg/L	0.00015	1.65%
Na 589.592	46825.4	5.588 mg/L	0.0194	5.588 mg/L	0.0194	0.35%
Ni 231.604†	9628.1	0.3083 mg/L	0.00047	0.3083 mg/L	0.00047	0.15%
P 214.914†	15696.9	11.21 mg/L	0.009	11.21 mg/L	0.009	0.08%
Pb 220.353†	36607.9	4.120 mg/L	0.0095	4.120 mg/L	0.0095	0.23%
Sb 206.836†	-2.6	-0.0088 mg/L	0.00126	-0.0088 mg/L	0.00126	14.25%
Se 196.026†	-0.5	0.0097 mg/L	0.00112	0.0097 mg/L	0.00112	11.53%
Sn 189.927†	7306.7	1.931 mg/L	0.0049	1.931 mg/L	0.0049	0.25%
Sr 407.771†	735682.1	0.0330 mg/L	0.00004	0.0330 mg/L	0.00004	0.11%
Ti 337.279†	546053.5	0.6895 mg/L	0.00061	0.6895 mg/L	0.00061	0.09%
Tl 190.801†	-30.7	0.0146 mg/L	0.00028	0.0146 mg/L	0.00028	1.90%
V 292.402†	23746.6	0.0897 mg/L	0.00034	0.0897 mg/L	0.00034	0.38%
Zn 213.857†	1161257.0	15.02 mg/L	0.032	15.02 mg/L	0.032	0.21%

Sequence No.: 36

Sample ID: 0606373-10

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 28

Date Collected: 6/23/2006 9:53:57 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 0606373-10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	9864.9	9105.0	4.996 mg/L	4.996 mg/L	21:55:31
1	Li 670.784†	1035.3	844.4	0.0219 mg/L	0.0219 mg/L	21:55:31
1	Na 589.592	43149.5	43962.8	5.240 mg/L	5.240 mg/L	21:55:31
1	Y 371.029	3433291.0	3433291.0	1.02 mg/L		21:55:57
1	Ag 328.068†	-2687.5	-79.6	0.0067 mg/L	0.0067 mg/L	21:56:02

1	Al	237.313†	334744.7	328062.0	36.24 mg/L	36.24 mg/L	21:55:57
1	As	188.979†	70.8	64.6	0.0890 mg/L	0.0890 mg/L	21:56:23
1	B	182.528†	5.5	8.1	0.0237 mg/L	0.0237 mg/L	21:56:23
1	Ba	233.527†	18900.8	18700.4	0.1555 mg/L	0.1555 mg/L	21:56:02
1	Be	313.107†	22779.5	20118.7	0.0027 mg/L	0.0027 mg/L	21:56:02
1	Ca	315.886†	318066.4	309846.5	2.122 mg/L	2.122 mg/L	21:56:02
1	Cd	228.802†	281.9	160.5	0.0052 mg/L	0.0052 mg/L	21:56:23
1	Co	228.616†	2988.8	3105.5	0.0758 mg/L	0.0758 mg/L	21:56:23
1	Cr	267.716†	15293.3	13630.0	0.0987 mg/L	0.0987 mg/L	21:56:02
1	Cu	324.752†	24683.1	22262.9	0.1200 mg/L	0.1200 mg/L	21:56:02
1	Fe	234.349†	10342054.7	10132712.8	193.7 mg/L	193.7 mg/L	21:55:50
1	Fe	238.204†	20845235.2	20424669.9	174.7 mg/L	174.7 mg/L	21:55:50
1	Mg	279.077†	176036.1	171951.1	6.834 mg/L	6.834 mg/L	21:56:02
1	Mn	257.610†	1482076.9	1450372.4	1.593 mg/L	1.593 mg/L	21:55:57
1	Mo	202.031†	177.8	137.0	0.0092 mg/L	0.0092 mg/L	21:56:02
1	Ni	231.604†	1924.5	1856.2	0.0597 mg/L	0.0597 mg/L	21:56:23
1	P	214.914†	11947.7	11663.5	8.338 mg/L	8.338 mg/L	21:56:23
1	Pb	220.353†	89.8	239.5	0.0231 mg/L	0.0231 mg/L	21:56:23
1	Sb	206.836†	14.3	-1.2	-0.0040 mg/L	-0.0040 mg/L	21:56:23
1	Se	196.026†	1.6	5.6	0.0174 mg/L	0.0174 mg/L	21:56:23
1	Sn	189.927†	104.7	-87.3	-0.0198 mg/L	-0.0198 mg/L	21:56:23
1	Sr	407.771†	425440.0	410574.6	0.0183 mg/L	0.0183 mg/L	21:55:57
1	Ti	337.279†	1976994.9	1939187.8	2.447 mg/L	2.447 mg/L	21:55:57
1	Tl	190.801†	-44.4	-63.0	-0.0082 mg/L	-0.0082 mg/L	21:56:23
1	V	292.402†	27548.7	28621.2	0.0862 mg/L	0.0862 mg/L	21:56:02
1	Zn	213.857†	23431.2	22285.8	0.2722 mg/L	0.2722 mg/L	21:56:02
2	K	766.490†	9801.7	9131.7	5.011 mg/L	5.011 mg/L	21:55:36
2	Li	670.784†	1069.4	887.5	0.0232 mg/L	0.0232 mg/L	21:55:36
2	Na	589.592	42983.3	43796.5	5.220 mg/L	5.220 mg/L	21:55:36
2	Y	371.029	3401872.8	3401872.8	1.01 mg/L		21:56:40
2	Ag	328.068†	-2936.1	-349.8	0.0058 mg/L	0.0058 mg/L	21:56:46
2	Al	237.313†	330997.8	327385.9	36.15 mg/L	36.15 mg/L	21:56:40
2	As	188.979†	66.5	61.0	0.0841 mg/L	0.0841 mg/L	21:57:06
2	B	182.528†	6.2	8.9	0.0256 mg/L	0.0256 mg/L	21:57:06
2	Ba	233.527†	18780.3	18752.3	0.1559 mg/L	0.1559 mg/L	21:56:46
2	Be	313.107†	22911.4	20455.2	0.0028 mg/L	0.0028 mg/L	21:56:46
2	Ca	315.886†	317571.2	312235.3	2.139 mg/L	2.139 mg/L	21:56:46
2	Cd	228.802†	294.2	175.3	0.0056 mg/L	0.0056 mg/L	21:57:06
2	Co	228.616†	2991.9	3135.6	0.0766 mg/L	0.0766 mg/L	21:57:06
2	Cr	267.716†	15238.5	13714.2	0.0993 mg/L	0.0993 mg/L	21:56:46
2	Cu	324.752†	23814.7	21627.5	0.1179 mg/L	0.1179 mg/L	21:56:46
2	Fe	234.349†	10340454.1	10224722.7	195.4 mg/L	195.4 mg/L	21:56:34
2	Fe	238.204†	20834043.3	20602245.8	176.2 mg/L	176.2 mg/L	21:56:34
2	Mg	279.077†	175570.4	173083.7	6.878 mg/L	6.878 mg/L	21:56:46
2	Mn	257.610†	1466574.1	1448453.6	1.591 mg/L	1.591 mg/L	21:56:40
2	Mo	202.031†	203.8	164.3	0.0110 mg/L	0.0110 mg/L	21:56:46
2	Ni	231.604†	1948.5	1897.3	0.0611 mg/L	0.0611 mg/L	21:57:06
2	P	214.914†	11974.5	11798.1	8.433 mg/L	8.433 mg/L	21:57:06
2	Pb	220.353†	112.1	262.4	0.0255 mg/L	0.0255 mg/L	21:57:06
2	Sb	206.836†	0.1	-15.1	-0.0107 mg/L	-0.0107 mg/L	21:57:06
2	Se	196.026†	-1.8	2.3	0.0132 mg/L	0.0132 mg/L	21:57:06
2	Sn	189.927†	108.2	-82.8	-0.0185 mg/L	-0.0185 mg/L	21:57:06
2	Sr	407.771†	422400.0	411418.4	0.0184 mg/L	0.0184 mg/L	21:56:40
2	Ti	337.279†	1963051.4	1943290.1	2.452 mg/L	2.452 mg/L	21:56:40
2	Tl	190.801†	-36.4	-55.5	-0.0022 mg/L	-0.0022 mg/L	21:57:06
2	V	292.402†	27594.0	28915.3	0.0872 mg/L	0.0872 mg/L	21:56:46
2	Zn	213.857†	23280.9	22349.2	0.2728 mg/L	0.2728 mg/L	21:56:46

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Mean Data: 0606373-10

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3417581.9	1.02 mg/L	0.007			0.65%
Ag 328.068†	-214.7	0.0063 mg/L	0.00061	0.0063 mg/L	0.00061	9.81%
Al 237.313†	327723.9	36.20 mg/L	0.059	36.20 mg/L	0.059	0.16%
As 188.979†	62.8	0.0865 mg/L	0.00348	0.0865 mg/L	0.00348	4.02%
B 182.528†	8.5	0.0247 mg/L	0.00127	0.0247 mg/L	0.00127	5.17%
Ba 233.527†	18726.4	0.1557 mg/L	0.00031	0.1557 mg/L	0.00031	0.20%
Be 313.107†	20287.0	0.0028 mg/L	0.00005	0.0028 mg/L	0.00005	1.89%
Ca 315.886†	311040.9	2.131 mg/L	0.0116	2.131 mg/L	0.0116	0.54%
Cd 228.802†	167.9	0.0054 mg/L	0.00029	0.0054 mg/L	0.00029	5.37%
Co 228.616†	3120.6	0.0762 mg/L	0.00055	0.0762 mg/L	0.00055	0.72%

Cr 267.716†	13672.1	0.0990 mg/L	0.00046	0.0990 mg/L	0.00046	0.47%
Cu 324.752†	21945.2	0.1190 mg/L	0.00148	0.1190 mg/L	0.00148	1.24%
Fe 234.349†	10178717.8	194.6 mg/L	1.24	194.6 mg/L	1.24	0.64%
Fe 238.204†	20513457.9	175.5 mg/L	1.07	175.5 mg/L	1.07	0.61%
K 766.490†	9118.3	5.003 mg/L	0.0104	5.003 mg/L	0.0104	0.21%
Li 670.784†	866.0	0.0226 mg/L	0.00088	0.0226 mg/L	0.00088	3.88%
Mg 279.077†	172517.4	6.856 mg/L	0.0317	6.856 mg/L	0.0317	0.46%
Mn 257.610†	1449413.0	1.592 mg/L	0.0015	1.592 mg/L	0.0015	0.09%
Mo 202.031†	150.6	0.0101 mg/L	0.00127	0.0101 mg/L	0.00127	12.61%
Na 589.592	43879.6	5.230 mg/L	0.0143	5.230 mg/L	0.0143	0.27%
Ni 231.604†	1876.7	0.0604 mg/L	0.00093	0.0604 mg/L	0.00093	1.54%
P 214.914†	11730.8	8.385 mg/L	0.0678	8.385 mg/L	0.0678	0.81%
Pb 220.353†	251.0	0.0243 mg/L	0.00176	0.0243 mg/L	0.00176	7.25%
Sb 206.836†	-8.2	-0.0073 mg/L	0.00473	-0.0073 mg/L	0.00473	64.57%
Se 196.026†	3.9	0.0153 mg/L	0.00295	0.0153 mg/L	0.00295	19.31%
Sn 189.927†	-85.0	-0.0191 mg/L	0.00089	-0.0191 mg/L	0.00089	4.66%
Sr 407.771†	410996.5	0.0183 mg/L	0.00003	0.0183 mg/L	0.00003	0.15%
Ti 337.279†	1941238.9	2.449 mg/L	0.0037	2.449 mg/L	0.0037	0.15%
Tl 190.801†	-59.2	-0.0052 mg/L	0.00427	-0.0052 mg/L	0.00427	81.80%
V 292.402†	28768.3	0.0867 mg/L	0.00068	0.0867 mg/L	0.00068	0.79%
Zn 213.857†	22317.5	0.2725 mg/L	0.00046	0.2725 mg/L	0.00046	0.17%

Sequence No.: 37

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/23/2006 9:58:44 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	44068.4	44593.9	24.45 mg/L	24.45 mg/L	22:00:21
1	Li 670.784†	17244.4	17499.6	0.5004 mg/L	0.5004 mg/L	22:00:21
1	Na 589.592	200872.3	201685.5	24.40 mg/L	24.40 mg/L	22:00:21
1	Y 371.029	3283228.3	3283228.3	0.976 mg/L		22:00:36
1	Ag 328.068†	67189.4	71400.4	0.2482 mg/L	0.2482 mg/L	22:00:41
1	Al 237.313†	21244.5	21821.5	2.461 mg/L	2.461 mg/L	22:00:41
1	As 188.979†	358.2	362.3	0.4979 mg/L	0.4979 mg/L	22:01:01
1	B 182.528†	203.1	210.8	0.4794 mg/L	0.4794 mg/L	22:01:01
1	Ba 233.527†	57684.5	59287.2	0.4939 mg/L	0.4939 mg/L	22:00:41
1	Be 313.107†	230685.3	234172.5	0.0481 mg/L	0.0481 mg/L	22:00:36
1	Ca 315.886†	699757.6	715196.8	4.905 mg/L	4.905 mg/L	22:00:36
1	Cd 228.802†	9820.0	9946.6	0.2451 mg/L	0.2451 mg/L	22:01:01
1	Co 228.616†	18135.2	18759.3	0.4898 mg/L	0.4898 mg/L	22:00:41
1	Cr 267.716†	75745.9	76258.5	0.4943 mg/L	0.4943 mg/L	22:00:41
1	Cu 324.752†	131692.7	133017.4	0.5043 mg/L	0.5043 mg/L	22:00:41
1	Fe 234.349†	128013.1	129932.3	2.474 mg/L	2.474 mg/L	22:00:41
1	Fe 238.204†	284994.1	290907.8	2.484 mg/L	2.484 mg/L	22:00:41
1	Mg 279.077†	120708.0	123142.4	4.937 mg/L	4.937 mg/L	22:00:41
1	Mn 257.610†	440632.9	449618.6	0.4922 mg/L	0.4922 mg/L	22:00:36
1	Mo 202.031†	7293.5	7436.1	0.4895 mg/L	0.4895 mg/L	22:01:01
1	Ni 231.604†	15373.1	15722.6	0.5039 mg/L	0.5039 mg/L	22:00:41
1	P 214.914†	6652.0	6772.3	4.852 mg/L	4.852 mg/L	22:01:01
1	Pb 220.353†	4082.1	4334.3	0.4891 mg/L	0.4891 mg/L	22:01:01
1	Sb 206.836†	1002.7	1012.2	0.4770 mg/L	0.4770 mg/L	22:01:01
1	Se 196.026†	757.9	780.7	0.9889 mg/L	0.9889 mg/L	22:01:01
1	Sn 189.927†	1928.4	1786.1	0.4670 mg/L	0.4670 mg/L	22:01:01
1	Sr 407.771†	1079618.3	1099941.4	0.0495 mg/L	0.0495 mg/L	22:00:36
1	Ti 337.279†	378858.2	390176.6	0.4929 mg/L	0.4929 mg/L	22:00:41
1	Tl 190.801†	609.6	605.1	0.5197 mg/L	0.5197 mg/L	22:01:01
1	V 292.402†	119681.1	124259.8	0.5014 mg/L	0.5014 mg/L	22:00:41
1	Zn 213.857†	37845.5	38105.0	0.4910 mg/L	0.4910 mg/L	22:00:41
2	K 766.490†	44053.4	44291.4	24.29 mg/L	24.29 mg/L	22:00:26
2	Li 670.784†	17205.0	17347.2	0.4961 mg/L	0.4961 mg/L	22:00:26
2	Na 589.592	198944.0	199757.2	24.17 mg/L	24.17 mg/L	22:00:26
2	Y 371.029	3304245.5	3304245.5	0.982 mg/L		22:01:08
2	Ag 328.068†	67564.7	71344.5	0.2480 mg/L	0.2480 mg/L	22:01:14
2	Al 237.313†	21230.4	21668.7	2.444 mg/L	2.444 mg/L	22:01:14
2	As 188.979†	355.7	357.4	0.4912 mg/L	0.4912 mg/L	22:01:34
2	B 182.528†	210.5	217.1	0.4934 mg/L	0.4934 mg/L	22:01:34

2	Ba 233.527†	57802.3	59031.1	0.4918 mg/L	0.4918 mg/L	22:01:14
2	Be 313.107†	232220.3	234231.9	0.0482 mg/L	0.0482 mg/L	22:01:08
2	Ca 315.886†	704384.7	715347.2	4.906 mg/L	4.906 mg/L	22:01:08
2	Cd 228.802†	9850.2	9913.3	0.2443 mg/L	0.2443 mg/L	22:01:34
2	Co 228.616†	18129.1	18634.9	0.4865 mg/L	0.4865 mg/L	22:01:14
2	Cr 267.716†	75936.2	75958.5	0.4923 mg/L	0.4923 mg/L	22:01:14
2	Cu 324.752†	131716.4	132183.1	0.5011 mg/L	0.5011 mg/L	22:01:14
2	Fe 234.349†	128503.5	129597.3	2.468 mg/L	2.468 mg/L	22:01:14
2	Fe 238.204†	285613.1	289680.6	2.473 mg/L	2.473 mg/L	22:01:14
2	Mg 279.077†	121434.9	123095.8	4.935 mg/L	4.935 mg/L	22:01:14
2	Mn 257.610†	443849.9	450022.2	0.4926 mg/L	0.4926 mg/L	22:01:08
2	Mo 202.031†	7325.9	7421.5	0.4886 mg/L	0.4886 mg/L	22:01:34
2	Ni 231.604†	15199.8	15446.0	0.4950 mg/L	0.4950 mg/L	22:01:14
2	P 214.914†	6657.8	6734.9	4.825 mg/L	4.825 mg/L	22:01:34
2	Pb 220.353†	4113.4	4339.5	0.4897 mg/L	0.4897 mg/L	22:01:34
2	Sb 206.836†	997.6	1000.5	0.4715 mg/L	0.4715 mg/L	22:01:34
2	Se 196.026†	750.8	768.5	0.9735 mg/L	0.9735 mg/L	22:01:34
2	Sn 189.927†	1927.8	1772.9	0.4635 mg/L	0.4635 mg/L	22:01:34
2	Sr 407.771†	1086117.4	1099522.0	0.0495 mg/L	0.0495 mg/L	22:01:08
2	Ti 337.279†	380987.5	389875.3	0.4925 mg/L	0.4925 mg/L	22:01:14
2	Tl 190.801†	615.7	607.3	0.5215 mg/L	0.5215 mg/L	22:01:34
2	V 292.402†	119917.9	123720.8	0.4992 mg/L	0.4992 mg/L	22:01:14
2	Zn 213.857†	38045.0	38061.5	0.4905 mg/L	0.4905 mg/L	22:01:14

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3293736.9	0.979 mg/L	0.0044			
Ag 328.068†	71372.5	0.2481 mg/L	0.00014	0.2481 mg/L	0.00014	0.45%
QC value within limits for Ag 328.068 Recovery = 99.25%						
Al 237.313†	21745.1	2.452 mg/L	0.0122	2.452 mg/L	0.0122	0.50%
QC value within limits for Al 237.313 Recovery = 98.09%						
As 188.979†	359.9	0.4945 mg/L	0.00476	0.4945 mg/L	0.00476	0.96%
QC value within limits for As 188.979 Recovery = 98.90%						
B 182.528†	214.0	0.4864 mg/L	0.00992	0.4864 mg/L	0.00992	2.04%
QC value within limits for B 182.528 Recovery = 97.28%						
Ba 233.527†	59159.2	0.4929 mg/L	0.00151	0.4929 mg/L	0.00151	0.31%
QC value within limits for Ba 233.527 Recovery = 98.57%						
Be 313.107†	234202.2	0.0482 mg/L	0.00001	0.0482 mg/L	0.00001	0.02%
QC value within limits for Be 313.107 Recovery = 96.31%						
Ca 315.886†	715272.0	4.906 mg/L	0.0007	4.906 mg/L	0.0007	0.01%
QC value within limits for Ca 315.886 Recovery = 98.11%						
Cd 228.802†	9929.9	0.2447 mg/L	0.00057	0.2447 mg/L	0.00057	0.23%
QC value within limits for Cd 228.802 Recovery = 97.89%						
Co 228.616†	18697.1	0.4881 mg/L	0.00230	0.4881 mg/L	0.00230	0.47%
QC value within limits for Co 228.616 Recovery = 97.63%						
Cr 267.716†	76108.5	0.4933 mg/L	0.00138	0.4933 mg/L	0.00138	0.28%
QC value within limits for Cr 267.716 Recovery = 98.66%						
Cu 324.752†	132600.3	0.5027 mg/L	0.00224	0.5027 mg/L	0.00224	0.45%
QC value within limits for Cu 324.752 Recovery = 100.54%						
Fe 234.349†	129764.8	2.471 mg/L	0.0045	2.471 mg/L	0.0045	0.18%
QC value within limits for Fe 234.349 Recovery = 98.85%						
Fe 238.204†	290294.2	2.479 mg/L	0.0074	2.479 mg/L	0.0074	0.30%
QC value within limits for Fe 238.204 Recovery = 99.15%						
K 766.490†	44442.7	24.37 mg/L	0.117	24.37 mg/L	0.117	0.48%
QC value within limits for K 766.490 Recovery = 97.48%						
Li 670.784†	17423.4	0.4982 mg/L	0.00310	0.4982 mg/L	0.00310	0.62%
QC value within limits for Li 670.784 Recovery = 99.65%						
Mg 279.077†	123119.1	4.936 mg/L	0.0013	4.936 mg/L	0.0013	0.03%
QC value within limits for Mg 279.077 Recovery = 98.73%						
Mn 257.610†	449820.4	0.4924 mg/L	0.00031	0.4924 mg/L	0.00031	0.06%
QC value within limits for Mn 257.610 Recovery = 98.48%						
Mo 202.031†	7428.8	0.4890 mg/L	0.00068	0.4890 mg/L	0.00068	0.14%
QC value within limits for Mo 202.031 Recovery = 97.81%						
Na 589.592	200721.4	24.29 mg/L	0.166	24.29 mg/L	0.166	0.68%
QC value within limits for Na 589.592 Recovery = 97.14%						
Ni 231.604†	15584.3	0.4995 mg/L	0.00626	0.4995 mg/L	0.00626	1.25%
QC value within limits for Ni 231.604 Recovery = 99.89%						
P 214.914†	6753.6	4.838 mg/L	0.0188	4.838 mg/L	0.0188	0.39%
QC value within limits for P 214.914 Recovery = 96.77%						
Pb 220.353†	4336.9	0.4894 mg/L	0.00042	0.4894 mg/L	0.00042	0.09%

Sb	206.836†	1006.4	0.4742 mg/L	0.00394	0.4742 mg/L	0.00394	0.83%
QC value within limits for Sb 220.353 Recovery = 97.88%							
Se	196.026†	774.6	0.9812 mg/L	0.01082	0.9812 mg/L	0.01082	1.10%
QC value within limits for Se 196.026 Recovery = 98.12%							
Sn	189.927†	1779.5	0.4652 mg/L	0.00247	0.4652 mg/L	0.00247	0.53%
QC value within limits for Sn 189.927 Recovery = 93.04%							
Sr	407.771†	1099731.7	0.0495 mg/L	0.00001	0.0495 mg/L	0.00001	0.03%
QC value within limits for Sr 407.771 Recovery = 98.97%							
Ti	337.279†	390026.0	0.4927 mg/L	0.00027	0.4927 mg/L	0.00027	0.05%
QC value within limits for Ti 337.279 Recovery = 98.54%							
Tl	190.801†	606.2	0.5206 mg/L	0.00131	0.5206 mg/L	0.00131	0.25%
QC value within limits for Tl 190.801 Recovery = 104.12%							
V	292.402†	123990.3	0.5003 mg/L	0.00152	0.5003 mg/L	0.00152	0.30%
QC value within limits for V 292.402 Recovery = 100.06%							
Zn	213.857†	38083.2	0.4908 mg/L	0.00036	0.4908 mg/L	0.00036	0.07%
QC value within limits for Zn 213.857 Recovery = 98.16%							
All analyte(s) passed QC.							

Sequence No.: 38

Sample ID: ICCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 6/23/2006 10:03:12 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	606.9	53.2	0.0331 mg/L	0.0331 mg/L	22:04:45
1	Li 670.784†	199.7	32.2	-0.0014 mg/L	-0.0014 mg/L	22:04:45
1	Na 589.592	-641.2	172.1	-0.0806 mg/L	-0.0806 mg/L	22:04:45
1	Y 371.029	3322357.9	3322357.9	0.988 mg/L		22:04:59
1	Ag 328.068†	-2013.6	514.8	0.0010 mg/L	0.0010 mg/L	22:05:04
1	Al 237.313†	-43.7	8.8	0.0038 mg/L	0.0038 mg/L	22:05:24
1	As 188.979†	8.5	3.9	0.0083 mg/L	0.0083 mg/L	22:05:24
1	B 182.528†	-0.7	2.0	0.0102 mg/L	0.0102 mg/L	22:05:24
1	Ba 233.527†	-180.9	-3.3	-0.0004 mg/L	-0.0004 mg/L	22:05:24
1	Be 313.107†	2166.8	-8.4	0.0001 mg/L	0.0001 mg/L	22:05:04
1	Ca 315.886†	1529.0	-271.4	-0.0060 mg/L	-0.0060 mg/L	22:05:04
1	Cd 228.802†	122.8	8.7	0.0001 mg/L	0.0001 mg/L	22:05:24
1	Co 228.616†	-169.0	5.7	-0.0001 mg/L	-0.0001 mg/L	22:05:24
1	Cr 267.716†	1226.2	-113.9	-0.0011 mg/L	-0.0011 mg/L	22:05:04
1	Cu 324.752†	3629.7	1752.0	0.0052 mg/L	0.0052 mg/L	22:05:04
1	Fe 234.349†	1384.3	163.7	-0.0007 mg/L	-0.0007 mg/L	22:05:24
1	Fe 238.204†	1346.1	247.7	-0.0032 mg/L	-0.0032 mg/L	22:05:24
1	Mg 279.077†	543.9	8.0	-0.0110 mg/L	-0.0110 mg/L	22:05:04
1	Mn 257.610†	1870.7	12.1	-0.0025 mg/L	-0.0025 mg/L	22:05:04
1	Mo 202.031†	33.5	-3.4	-0.0001 mg/L	-0.0001 mg/L	22:05:24
1	Ni 231.604†	37.9	8.8	0.0006 mg/L	0.0006 mg/L	22:05:24
1	P 214.914†	51.6	8.5	0.0314 mg/L	0.0314 mg/L	22:05:24
1	Pb 220.353†	-157.7	-8.2	-0.0026 mg/L	-0.0026 mg/L	22:05:24
1	Sb 206.836†	11.2	-3.8	-0.0011 mg/L	-0.0011 mg/L	22:05:24
1	Se 196.026†	-10.3	-6.4	0.0023 mg/L	0.0023 mg/L	22:05:24
1	Sn 189.927†	110.1	-78.3	-0.0277 mg/L	-0.0277 mg/L	22:05:24
1	Sr 407.771†	6424.5	200.7	-0.0002 mg/L	-0.0002 mg/L	22:04:59
1	Ti 337.279†	-2143.7	-196.4	0.0004 mg/L	0.0004 mg/L	22:05:04
1	Tl 190.801†	1.8	-17.6	0.0068 mg/L	0.0068 mg/L	22:05:24
1	V 292.402†	-1542.6	64.9	0.0010 mg/L	0.0010 mg/L	22:05:04
1	Zn 213.857†	647.8	-18.0	0.0003 mg/L	0.0003 mg/L	22:05:24
2	K 766.490†	614.6	59.6	0.0366 mg/L	0.0366 mg/L	22:04:51
2	Li 670.784†	151.0	-17.4	-0.0028 mg/L	-0.0028 mg/L	22:04:51
2	Na 589.592	-636.6	176.7	-0.0801 mg/L	-0.0801 mg/L	22:04:51
2	Y 371.029	3329802.4	3329802.4	0.990 mg/L		22:05:30
2	Ag 328.068†	-2023.8	509.1	0.0010 mg/L	0.0010 mg/L	22:05:35
2	Al 237.313†	-47.2	5.4	0.0034 mg/L	0.0034 mg/L	22:05:56
2	As 188.979†	3.1	-1.6	0.0008 mg/L	0.0008 mg/L	22:05:56
2	B 182.528†	-0.6	2.1	0.0103 mg/L	0.0103 mg/L	22:05:56
2	Ba 233.527†	-166.4	11.8	-0.0003 mg/L	-0.0003 mg/L	22:05:56
2	Be 313.107†	2198.3	18.6	0.0001 mg/L	0.0001 mg/L	22:05:35
2	Ca 315.886†	1538.1	-265.7	-0.0059 mg/L	-0.0059 mg/L	22:05:35

2	Cd 228.802†	117.2	2.7	0.0000 mg/L	0.0000 mg/L	22:05:56
2	Co 228.616†	-171.3	3.8	-0.0001 mg/L	-0.0001 mg/L	22:05:56
2	Cr 267.716†	1326.2	-15.7	-0.0004 mg/L	-0.0004 mg/L	22:05:35
2	Cu 324.752†	3597.7	1711.4	0.0051 mg/L	0.0051 mg/L	22:05:35
2	Fe 234.349†	1394.5	170.8	-0.0006 mg/L	-0.0006 mg/L	22:05:56
2	Fe 238.204†	1313.2	211.4	-0.0035 mg/L	-0.0035 mg/L	22:05:56
2	Mg 279.077†	460.9	-77.1	-0.0145 mg/L	-0.0145 mg/L	22:05:35
2	Mn 257.610†	1784.1	-79.5	-0.0026 mg/L	-0.0026 mg/L	22:05:35
2	Mo 202.031†	39.4	2.5	0.0003 mg/L	0.0003 mg/L	22:05:56
2	Ni 231.604†	33.3	4.1	0.0004 mg/L	0.0004 mg/L	22:05:56
2	P 214.914†	36.8	-6.5	0.0207 mg/L	0.0207 mg/L	22:05:56
2	Pb 220.353†	-151.6	-1.6	-0.0019 mg/L	-0.0019 mg/L	22:05:56
2	Sb 206.836†	14.6	-0.5	0.0005 mg/L	0.0005 mg/L	22:05:56
2	Se 196.026†	-8.4	-4.4	0.0048 mg/L	0.0048 mg/L	22:05:56
2	Sn 189.927†	113.2	-75.5	-0.0269 mg/L	-0.0269 mg/L	22:05:56
2	Sr 407.771†	6411.4	172.9	-0.0002 mg/L	-0.0002 mg/L	22:05:30
2	Ti 337.279†	-2071.1	-118.2	0.0005 mg/L	0.0005 mg/L	22:05:35
2	Tl 190.801†	-3.3	-22.8	0.0025 mg/L	0.0025 mg/L	22:05:56
2	V 292.402†	-1523.8	87.4	0.0011 mg/L	0.0011 mg/L	22:05:35
2	Zn 213.857†	622.1	-45.4	-0.0001 mg/L	-0.0001 mg/L	22:05:56

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3326080.1	0.989 mg/L	0.0016			
Ag 328.068†	512.0	0.0010 mg/L	0.00001	0.0010 mg/L	0.00001	1.43%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	7.1	0.0036 mg/L	0.00027	0.0036 mg/L	0.00027	7.57%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	1.2	0.0046 mg/L	0.00533	0.0046 mg/L	0.00533	116.84%
QC value within limits for As 188.979 Recovery = Not calculated						
B 182.528†	2.1	0.0102 mg/L	0.00006	0.0102 mg/L	0.00006	0.63%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	4.3	-0.0003 mg/L	0.00009	-0.0003 mg/L	0.00009	26.19%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	5.1	0.0001 mg/L	0.00000	0.0001 mg/L	0.00000	3.24%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.886†	-268.6	-0.0059 mg/L	0.00003	-0.0059 mg/L	0.00003	0.47%
QC value within limits for Ca 315.886 Recovery = Not calculated						
Cd 228.802†	5.7	0.0001 mg/L	0.00007	0.0001 mg/L	0.00007	92.57%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	4.7	-0.0001 mg/L	0.00004	-0.0001 mg/L	0.00004	30.32%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-64.8	-0.0008 mg/L	0.00045	-0.0008 mg/L	0.00045	58.88%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	1731.7	0.0051 mg/L	0.00011	0.0051 mg/L	0.00011	2.12%
QC value greater than the upper limit for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	167.2	-0.0007 mg/L	0.00010	-0.0007 mg/L	0.00010	14.68%
QC value within limits for Fe 234.349 Recovery = Not calculated						
Fe 238.204†	229.5	-0.0034 mg/L	0.00022	-0.0034 mg/L	0.00022	6.48%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	56.4	0.0349 mg/L	0.00249	0.0349 mg/L	0.00249	7.14%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 670.784†	7.4	-0.0021 mg/L	0.00101	-0.0021 mg/L	0.00101	48.06%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	-34.5	-0.0128 mg/L	0.00242	-0.0128 mg/L	0.00242	18.95%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	-33.7	-0.0026 mg/L	0.00007	-0.0026 mg/L	0.00007	2.79%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-0.4	0.0001 mg/L	0.00027	0.0001 mg/L	0.00027	204.30%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	174.4	-0.0803 mg/L	0.00039	-0.0803 mg/L	0.00039	0.49%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	6.4	0.0005 mg/L	0.00011	0.0005 mg/L	0.00011	21.37%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	1.0	0.0261 mg/L	0.00756	0.0261 mg/L	0.00756	28.99%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-4.9	-0.0023 mg/L	0.00053	-0.0023 mg/L	0.00053	23.23%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-2.2	-0.0003 mg/L	0.00113	-0.0003 mg/L	0.00113	350.60%
QC value within limits for Sb 206.836 Recovery = Not calculated						



Se 196.026†	-5.4	0.0036 mg/L	0.00176	0.0036 mg/L	0.00176	49.11%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-76.9	-0.0273 mg/L	0.00053	-0.0273 mg/L	0.00053	1.93%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	186.8	-0.0002 mg/L	0.00000	-0.0002 mg/L	0.00000	0.39%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	-157.3	0.0005 mg/L	0.00007	0.0005 mg/L	0.00007	14.20%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	-20.2	0.0047 mg/L	0.00299	0.0047 mg/L	0.00299	64.30%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	76.1	0.0010 mg/L	0.00007	0.0010 mg/L	0.00007	6.50%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-31.7	0.0001 mg/L	0.00025	0.0001 mg/L	0.00025	240.41%
QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.						

```

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Sequence No.: 39
Sample ID: 0606373-12
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 6/23/2006 10:07:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
=====
    
```

Replicate Data: 0606373-12

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	8819.9	8310.2	4.560 mg/L	4.560 mg/L	22:09:07
1	Li 670.784†	1695.3	1535.2	0.0418 mg/L	0.0418 mg/L	22:09:07
1	Na 589.592	43571.3	44384.5	5.291 mg/L	5.291 mg/L	22:09:07
1	Y 371.029	3344602.4	3344602.4	0.994 mg/L	0.994 mg/L	22:09:24
1	Ag 328.068†	-1670.3	873.7	0.0051 mg/L	0.0051 mg/L	22:09:29
1	Al 237.313†	233301.8	234722.3	26.22 mg/L	26.22 mg/L	22:09:29
1	As 188.979†	33.5	28.9	0.0406 mg/L	0.0406 mg/L	22:09:50
1	B 182.528†	-0.5	2.2	0.0105 mg/L	0.0105 mg/L	22:09:50
1	Ba 233.527†	22956.2	23270.7	0.1936 mg/L	0.1936 mg/L	22:09:29
1	Be 313.107†	11742.6	9609.0	0.0003 mg/L	0.0003 mg/L	22:09:29
1	Ca 315.886†	683198.8	685383.6	4.699 mg/L	4.699 mg/L	22:09:24
1	Cd 228.802†	165.1	50.4	0.0016 mg/L	0.0016 mg/L	22:09:50
1	Co 228.616†	734.7	915.9	0.0195 mg/L	0.0195 mg/L	22:09:50
1	Cr 267.716†	9762.7	8464.3	0.0570 mg/L	0.0570 mg/L	22:09:29
1	Cu 324.752†	27856.0	26095.8	0.1121 mg/L	0.1121 mg/L	22:09:29
1	Fe 234.349†	3687769.9	3708146.8	70.88 mg/L	70.88 mg/L	22:09:24
1	Fe 238.204†	8006431.7	8052244.1	68.88 mg/L	68.88 mg/L	22:09:24
1	Mg 279.077†	197379.6	197993.8	7.940 mg/L	7.940 mg/L	22:09:29
1	Mn 257.610†	2579932.4	2593172.0	2.850 mg/L	2.850 mg/L	22:09:24
1	Mo 202.031†	110.8	74.2	0.0050 mg/L	0.0050 mg/L	22:09:50
1	Ni 231.604†	1407.5	1386.1	0.0447 mg/L	0.0447 mg/L	22:09:50
1	P 214.914†	6216.8	6209.5	4.451 mg/L	4.451 mg/L	22:09:50
1	Pb 220.353†	2134.5	2298.5	0.2597 mg/L	0.2597 mg/L	22:09:50
1	Sb 206.836†	23.9	8.8	0.0019 mg/L	0.0019 mg/L	22:09:50
1	Se 196.026†	-1.2	2.9	0.0140 mg/L	0.0140 mg/L	22:09:50
1	Sn 189.927†	514.1	327.3	0.0847 mg/L	0.0847 mg/L	22:09:50
1	Sr 407.771†	752670.6	750777.5	0.0337 mg/L	0.0337 mg/L	22:09:24
1	Ti 337.279†	1562530.6	1573663.3	1.986 mg/L	1.986 mg/L	22:09:24
1	Tl 190.801†	-44.3	-64.1	0.0137 mg/L	0.0137 mg/L	22:09:50
1	V 292.402†	15979.5	17700.0	0.0593 mg/L	0.0593 mg/L	22:09:29
1	Zn 213.857†	23797.0	23262.6	0.2957 mg/L	0.2957 mg/L	22:09:29
2	K 766.490†	8965.5	8436.2	4.629 mg/L	4.629 mg/L	22:09:12
2	Li 670.784†	1701.4	1537.5	0.0419 mg/L	0.0419 mg/L	22:09:12
2	Na 589.592	44130.6	44943.8	5.359 mg/L	5.359 mg/L	22:09:12
2	Y 371.029	3352187.6	3352187.6	0.996 mg/L	0.996 mg/L	22:09:59
2	Ag 328.068†	-1785.7	761.7	0.0047 mg/L	0.0047 mg/L	22:10:04
2	Al 237.313†	231898.9	232783.3	26.00 mg/L	26.00 mg/L	22:10:04
2	As 188.979†	28.3	23.7	0.0334 mg/L	0.0334 mg/L	22:10:24
2	B 182.528†	0.6	3.3	0.0130 mg/L	0.0130 mg/L	22:10:24
2	Ba 233.527†	22812.4	23074.1	0.1920 mg/L	0.1920 mg/L	22:10:04
2	Be 313.107†	11630.4	9469.6	0.0003 mg/L	0.0003 mg/L	22:10:04
2	Ca 315.886†	684714.6	685349.8	4.698 mg/L	4.698 mg/L	22:09:59
2	Cd 228.802†	169.8	54.7	0.0017 mg/L	0.0017 mg/L	22:10:24
2	Co 228.616†	729.9	909.4	0.0193 mg/L	0.0193 mg/L	22:10:24
2	Cr 267.716†	9719.2	8398.4	0.0566 mg/L	0.0566 mg/L	22:10:04

2	Cu 324.752†	27596.7	25772.2	0.1109 mg/L	0.1109 mg/L	22:10:04
2	Fe 234.349†	3698618.6	3710641.0	70.93 mg/L	70.93 mg/L	22:09:59
2	Fe 238.204†	8023145.3	8050794.8	68.87 mg/L	68.87 mg/L	22:09:59
2	Mg 279.077†	195718.6	195877.6	7.855 mg/L	7.855 mg/L	22:10:04
2	Mn 257.610†	2584065.8	2591448.2	2.848 mg/L	2.848 mg/L	22:09:59
2	Mo 202.031†	122.0	85.1	0.0058 mg/L	0.0058 mg/L	22:10:24
2	Ni 231.604†	1419.0	1394.4	0.0449 mg/L	0.0449 mg/L	22:10:24
2	P 214.914†	6207.4	6185.9	4.434 mg/L	4.434 mg/L	22:10:24
2	Pb 220.353†	2136.4	2295.6	0.2593 mg/L	0.2593 mg/L	22:10:24
2	Sb 206.836†	10.5	-4.7	-0.0046 mg/L	-0.0046 mg/L	22:10:24
2	Se 196.026†	-3.7	0.4	0.0108 mg/L	0.0108 mg/L	22:10:24
2	Sn 189.927†	506.8	318.8	0.0825 mg/L	0.0825 mg/L	22:10:24
2	Sr 407.771†	755015.3	751417.5	0.0337 mg/L	0.0337 mg/L	22:09:59
2	Ti 337.279†	1565887.1	1573475.4	1.986 mg/L	1.986 mg/L	22:09:59
2	Tl 190.801†	-40.6	-60.2	0.0169 mg/L	0.0169 mg/L	22:10:24
2	V 292.402†	15807.8	17491.4	0.0585 mg/L	0.0585 mg/L	22:10:04
2	Zn 213.857†	23768.6	23179.9	0.2946 mg/L	0.2946 mg/L	22:10:04

Mean Data: 0606373-12

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3348395.0	0.995 mg/L	0.0016	0.0049 mg/L	0.00027	0.16%
Ag 328.068†	817.7	0.0049 mg/L	0.00027	26.11 mg/L	0.155	5.60%
Al 237.313†	233752.8	26.11 mg/L	0.155	0.0370 mg/L	0.00510	0.59%
As 188.979†	26.3	0.0370 mg/L	0.00510	0.0118 mg/L	0.00175	13.77%
B 182.528†	2.8	0.0118 mg/L	0.00175	0.0118 mg/L	0.00175	14.88%
Ba 233.527†	23172.4	0.1928 mg/L	0.00116	0.1928 mg/L	0.00116	0.60%
Be 313.107†	9539.3	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	6.12%
Ca 315.886†	685366.7	4.698 mg/L	0.0002	4.698 mg/L	0.0002	0.00%
Cd 228.802†	52.5	0.0017 mg/L	0.00010	0.0017 mg/L	0.00010	6.30%
Co 228.616†	912.6	0.0194 mg/L	0.00012	0.0194 mg/L	0.00012	0.62%
Cr 267.716†	8431.4	0.0568 mg/L	0.00030	0.0568 mg/L	0.00030	0.53%
Cu 324.752†	25934.0	0.1115 mg/L	0.00086	0.1115 mg/L	0.00086	0.77%
Fe 234.349†	3709393.9	70.90 mg/L	0.034	70.90 mg/L	0.034	0.05%
Fe 238.204†	8051519.4	68.87 mg/L	0.009	68.87 mg/L	0.009	0.01%
K 766.490†	8373.2	4.595 mg/L	0.0488	4.595 mg/L	0.0488	1.06%
Li 670.784†	1536.3	0.0418 mg/L	0.00005	0.0418 mg/L	0.00005	0.11%
Mg 279.077†	196935.7	7.898 mg/L	0.0601	7.898 mg/L	0.0601	0.76%
Mn 257.610†	2592310.1	2.849 mg/L	0.0013	2.849 mg/L	0.0013	0.05%
Mo 202.031†	79.6	0.0054 mg/L	0.00051	0.0054 mg/L	0.00051	9.44%
Na 589.592	44664.2	5.325 mg/L	0.0481	5.325 mg/L	0.0481	0.90%
Ni 231.604†	1390.3	0.0448 mg/L	0.00019	0.0448 mg/L	0.00019	0.42%
P 214.914†	6197.7	4.442 mg/L	0.0119	4.442 mg/L	0.0119	0.27%
Pb 220.353†	2297.1	0.2595 mg/L	0.00026	0.2595 mg/L	0.00026	0.10%
Sb 206.836†	2.1	-0.0014 mg/L	0.00461	-0.0014 mg/L	0.00461	338.41%
Se 196.026†	1.6	0.0124 mg/L	0.00221	0.0124 mg/L	0.00221	17.83%
Sn 189.927†	323.1	0.0836 mg/L	0.00159	0.0836 mg/L	0.00159	1.90%
Sr 407.771†	751097.5	0.0337 mg/L	0.00002	0.0337 mg/L	0.00002	0.06%
Ti 337.279†	1573569.3	1.986 mg/L	0.0002	1.986 mg/L	0.0002	0.01%
Tl 190.801†	-62.1	0.0153 mg/L	0.00223	0.0153 mg/L	0.00223	14.60%
V 292.402†	17595.7	0.0589 mg/L	0.00058	0.0589 mg/L	0.00058	0.99%
Zn 213.857†	23221.2	0.2952 mg/L	0.00076	0.2952 mg/L	0.00076	0.26%

Sequence No.: 40  
 Sample ID: 0606373-13  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 30  
 Date Collected: 6/23/2006 10:12:02 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 0606373-13

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	1093.1	532.1	0.2957 mg/L	0.2957 mg/L	22:13:40
1	Li 670.784†	214.8	44.8	-0.0010 mg/L	-0.0010 mg/L	22:13:40
1	Na 589.592	47945.3	48758.5	5.822 mg/L	5.822 mg/L	22:13:40
1	Y 371.029	3362984.9	3362984.9	1.000 mg/L		22:13:55
1	Ag 328.068†	-2071.4	481.6	0.0011 mg/L	0.0011 mg/L	22:14:01
1	Al 237.313†	76546.2	76627.1	8.637 mg/L	8.637 mg/L	22:14:01
1	As 188.979†	39.0	34.3	0.0491 mg/L	0.0491 mg/L	22:14:21

1	B	182.528†	-3.4	-0.7	0.0041 mg/L	0.0041 mg/L	22:14:21
1	Ba	233.527†	5520.4	5702.4	0.0472 mg/L	0.0472 mg/L	22:14:01
1	Be	313.107†	9166.1	6966.9	0.0007 mg/L	0.0007 mg/L	22:14:01
1	Ca	315.886†	1436150.1	1434852.0	9.840 mg/L	9.840 mg/L	22:13:55
1	Cd	228.802†	235.5	119.9	0.0028 mg/L	0.0028 mg/L	22:14:21
1	Co	228.616†	295.8	472.7	0.0104 mg/L	0.0104 mg/L	22:14:21
1	Cr	267.716†	8790.0	7437.5	0.0481 mg/L	0.0481 mg/L	22:14:01
1	Cu	324.752†	8306.9	6386.5	0.0246 mg/L	0.0246 mg/L	22:14:01
1	Fe	234.349†	333714.1	332597.2	6.354 mg/L	6.354 mg/L	22:14:01
1	Fe	238.204†	742940.6	742095.0	6.343 mg/L	6.343 mg/L	22:13:55
1	Mg	279.077†	45169.5	44643.2	1.782 mg/L	1.782 mg/L	22:14:01
1	Mn	257.610†	289670.6	287893.6	0.3142 mg/L	0.3142 mg/L	22:14:01
1	Mo	202.031†	185.4	148.2	0.0099 mg/L	0.0099 mg/L	22:14:21
1	Ni	231.604†	1433.3	1404.2	0.0452 mg/L	0.0452 mg/L	22:14:21
1	P	214.914†	4492.7	4450.6	3.197 mg/L	3.197 mg/L	22:14:21
1	Pb	220.353†	-70.7	80.8	0.0089 mg/L	0.0089 mg/L	22:14:21
1	Sb	206.836†	13.9	-1.2	-0.0017 mg/L	-0.0017 mg/L	22:14:21
1	Se	196.026†	-2.8	1.3	0.0120 mg/L	0.0120 mg/L	22:14:21
1	Sn	189.927†	227.7	38.0	0.0042 mg/L	0.0042 mg/L	22:14:21
1	Sr	407.771†	1614455.0	1608736.6	0.0725 mg/L	0.0725 mg/L	22:13:55
1	Ti	337.279†	643687.0	645895.0	0.8154 mg/L	0.8154 mg/L	22:13:55
1	Tl	190.801†	-0.7	-20.2	0.0085 mg/L	0.0085 mg/L	22:14:21
1	V	292.402†	5880.5	7509.5	0.0288 mg/L	0.0288 mg/L	22:14:01
1	Zn	213.857†	2757.5	2084.6	0.0270 mg/L	0.0270 mg/L	22:14:21
2	K	766.490†	1130.7	567.0	0.3148 mg/L	0.3148 mg/L	22:13:45
2	Li	670.784†	228.0	57.5	-0.0007 mg/L	-0.0007 mg/L	22:13:45
2	Na	589.592	48034.8	48848.0	5.833 mg/L	5.833 mg/L	22:13:45
2	Y	371.029	3371154.0	3371154.0	1.00 mg/L	1.00 mg/L	22:14:29
2	Ag	328.068†	-2040.9	517.1	0.0013 mg/L	0.0013 mg/L	22:14:34
2	Al	237.313†	76708.1	76603.1	8.635 mg/L	8.635 mg/L	22:14:34
2	As	188.979†	39.7	35.0	0.0500 mg/L	0.0500 mg/L	22:14:54
2	B	182.528†	-4.7	-2.0	0.0011 mg/L	0.0011 mg/L	22:14:54
2	Ba	233.527†	5491.4	5660.0	0.0468 mg/L	0.0468 mg/L	22:14:34
2	Be	313.107†	9100.8	6879.6	0.0007 mg/L	0.0007 mg/L	22:14:34
2	Ca	315.886†	1441806.6	1437015.3	9.855 mg/L	9.855 mg/L	22:14:29
2	Cd	228.802†	247.3	131.1	0.0030 mg/L	0.0030 mg/L	22:14:54
2	Co	228.616†	316.2	492.4	0.0109 mg/L	0.0109 mg/L	22:14:54
2	Cr	267.716†	8840.5	7466.7	0.0483 mg/L	0.0483 mg/L	22:14:34
2	Cu	324.752†	8116.2	6176.0	0.0238 mg/L	0.0238 mg/L	22:14:34
2	Fe	234.349†	334194.1	332267.3	6.347 mg/L	6.347 mg/L	22:14:34
2	Fe	238.204†	745124.2	742473.1	6.346 mg/L	6.346 mg/L	22:14:29
2	Mg	279.077†	45094.0	44458.4	1.774 mg/L	1.774 mg/L	22:14:34
2	Mn	257.610†	289617.5	287138.5	0.3134 mg/L	0.3134 mg/L	22:14:34
2	Mo	202.031†	181.2	143.5	0.0096 mg/L	0.0096 mg/L	22:14:54
2	Ni	231.604†	1437.1	1404.5	0.0452 mg/L	0.0452 mg/L	22:14:54
2	P	214.914†	4459.9	4406.9	3.166 mg/L	3.166 mg/L	22:14:54
2	Pb	220.353†	-72.7	78.9	0.0086 mg/L	0.0086 mg/L	22:14:54
2	Sb	206.836†	18.9	3.7	0.0007 mg/L	0.0007 mg/L	22:14:54
2	Se	196.026†	-2.7	1.3	0.0120 mg/L	0.0120 mg/L	22:14:54
2	Sn	189.927†	215.1	24.9	0.0008 mg/L	0.0008 mg/L	22:14:54
2	Sr	407.771†	1621243.5	1611597.4	0.0726 mg/L	0.0726 mg/L	22:14:29
2	Ti	337.279†	645599.6	646243.2	0.8159 mg/L	0.8159 mg/L	22:14:29
2	Tl	190.801†	7.1	-12.4	0.0149 mg/L	0.0149 mg/L	22:14:54
2	V	292.402†	5871.6	7486.4	0.0287 mg/L	0.0287 mg/L	22:14:34
2	Zn	213.857†	2750.0	2070.4	0.0268 mg/L	0.0268 mg/L	22:14:54

Mean Data: 0606373-13

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD	
	Intensity	Conc.			Units	Std.Dev.		
Y 371.029	3367069.4	1.00	mg/L	0.002			0.17%	
Ag 328.068†	499.4	0.0012	mg/L	0.00009	0.0012	mg/L	0.00009	7.23%
Al 237.313†	76615.1	8.636	mg/L	0.0019	8.636	mg/L	0.0019	0.02%
As 188.979†	34.6	0.0496	mg/L	0.00060	0.0496	mg/L	0.00060	1.22%
B 182.528†	-1.3	0.0026	mg/L	0.00215	0.0026	mg/L	0.00215	83.39%
Ba 233.527†	5681.2	0.0470	mg/L	0.00025	0.0470	mg/L	0.00025	0.53%
Be 313.107†	6923.3	0.0007	mg/L	0.00001	0.0007	mg/L	0.00001	1.88%
Ca 315.886†	1435933.6	9.848	mg/L	0.0105	9.848	mg/L	0.0105	0.11%
Cd 228.802†	125.5	0.0029	mg/L	0.00019	0.0029	mg/L	0.00019	6.69%
Co 228.616†	482.6	0.0106	mg/L	0.00036	0.0106	mg/L	0.00036	3.42%
Cr 267.716†	7452.1	0.0482	mg/L	0.00013	0.0482	mg/L	0.00013	0.28%
Cu 324.752†	6281.2	0.0242	mg/L	0.00057	0.0242	mg/L	0.00057	2.33%

Fe 234.349†	332432.2	6.350 mg/L	0.0045	6.350 mg/L	0.0045	0.07%
Fe 238.204†	742284.1	6.345 mg/L	0.0023	6.345 mg/L	0.0023	0.04%
K 766.490†	549.6	0.3052 mg/L	0.01353	0.3052 mg/L	0.01353	4.43%
Li 670.784†	51.1	-0.0008 mg/L	0.00026	-0.0008 mg/L	0.00026	30.43%
Mg 279.077†	44550.8	1.778 mg/L	0.0053	1.778 mg/L	0.0053	0.30%
Mn 257.610†	287516.1	0.3138 mg/L	0.00059	0.3138 mg/L	0.00059	0.19%
Mo 202.031†	145.8	0.0098 mg/L	0.00022	0.0098 mg/L	0.00022	2.25%
Na 589.592	48803.3	5.828 mg/L	0.0077	5.828 mg/L	0.0077	0.13%
Ni 231.604†	1404.4	0.0452 mg/L	0.00001	0.0452 mg/L	0.00001	0.02%
P 214.914†	4428.8	3.182 mg/L	0.0220	3.182 mg/L	0.0220	0.69%
Pb 220.353†	79.8	0.0087 mg/L	0.00015	0.0087 mg/L	0.00015	1.70%
Sb 206.836†	1.2	-0.0005 mg/L	0.00168	-0.0005 mg/L	0.00168	328.46%
Se 196.026†	1.3	0.0120 mg/L	0.00004	0.0120 mg/L	0.00004	0.32%
Sn 189.927†	31.4	0.0025 mg/L	0.00246	0.0025 mg/L	0.00246	98.22%
Sr 407.771†	1610167.0	0.0726 mg/L	0.00009	0.0726 mg/L	0.00009	0.13%
Ti 337.279†	646069.1	0.8157 mg/L	0.00031	0.8157 mg/L	0.00031	0.04%
Tl 190.801†	-16.3	0.0117 mg/L	0.00451	0.0117 mg/L	0.00451	38.54%
V 292.402†	7498.0	0.0288 mg/L	0.00007	0.0288 mg/L	0.00007	0.24%
Zn 213.857†	2077.5	0.0269 mg/L	0.00013	0.0269 mg/L	0.00013	0.48%

Sequence No.: 41

Sample ID: 0606373-14

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 31

Date Collected: 6/23/2006 10:16:33 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: 0606373-14

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	6143.3	5616.8	3.083 mg/L	3.083 mg/L	22:18:07
1	Li 670.784†	1502.6	1341.1	0.0362 mg/L	0.0362 mg/L	22:18:07
1	Na 589.592	44543.8	45357.0	5.409 mg/L	5.409 mg/L	22:18:07
1	Y 371.029	3345205.0	3345205.0	0.994 mg/L		22:18:24
1	Ag 328.068†	17221.8	19873.4	0.0703 mg/L	0.0703 mg/L	22:18:29
1	Al 237.313†	243777.3	245215.0	27.52 mg/L	27.52 mg/L	22:18:29
1	As 188.979†	23.9	19.3	0.0276 mg/L	0.0276 mg/L	22:18:50
1	B 182.528†	1.0	3.7	0.0139 mg/L	0.0139 mg/L	22:18:50
1	Ba 233.527†	19560.8	19851.8	0.1651 mg/L	0.1651 mg/L	22:18:29
1	Be 313.107†	11154.9	9015.8	0.0003 mg/L	0.0003 mg/L	22:18:29
1	Ca 315.886†	804016.4	806763.7	5.531 mg/L	5.531 mg/L	22:18:24
1	Cd 228.802†	189.9	75.3	0.0021 mg/L	0.0021 mg/L	22:18:50
1	Co 228.616†	641.4	821.9	0.0175 mg/L	0.0175 mg/L	22:18:50
1	Cr 267.716†	23807.5	22587.1	0.1485 mg/L	0.1485 mg/L	22:18:29
1	Cu 324.752†	121253.1	120018.4	0.4641 mg/L	0.4641 mg/L	22:18:29
1	Fe 234.349†	2436256.5	2448856.5	46.81 mg/L	46.81 mg/L	22:18:24
1	Fe 238.204†	5344841.2	5374084.9	45.97 mg/L	45.97 mg/L	22:18:24
1	Mg 279.077†	179033.7	179507.9	7.187 mg/L	7.187 mg/L	22:18:29
1	Mn 257.610†	822125.7	824913.3	0.9050 mg/L	0.9050 mg/L	22:18:24
1	Mo 202.031†	110.2	73.5	0.0050 mg/L	0.0050 mg/L	22:18:50
1	Ni 231.604†	2371.4	2355.2	0.0757 mg/L	0.0757 mg/L	22:18:29
1	P 214.914†	6624.8	6618.6	4.742 mg/L	4.742 mg/L	22:18:29
1	Pb 220.353†	2275.9	2440.3	0.2771 mg/L	0.2771 mg/L	22:18:50
1	Sb 206.836†	18.5	3.5	-0.0022 mg/L	-0.0022 mg/L	22:18:50
1	Se 196.026†	-7.2	-3.2	0.0064 mg/L	0.0064 mg/L	22:18:50
1	Sn 189.927†	287.0	98.8	0.0230 mg/L	0.0230 mg/L	22:18:50
1	Sr 407.771†	709733.7	707460.3	0.0318 mg/L	0.0318 mg/L	22:18:24
1	Ti 337.279†	1399326.4	1409248.9	1.778 mg/L	1.778 mg/L	22:18:24
1	Tl 190.801†	-8.4	-28.0	0.0103 mg/L	0.0103 mg/L	22:18:50
1	V 292.402†	19803.7	21543.0	0.0779 mg/L	0.0779 mg/L	22:18:29
1	Zn 213.857†	41146.5	40706.3	0.5233 mg/L	0.5233 mg/L	22:18:29
2	K 766.490†	6214.3	5636.6	3.094 mg/L	3.094 mg/L	22:18:12
2	Li 670.784†	1555.3	1381.2	0.0374 mg/L	0.0374 mg/L	22:18:12
2	Na 589.592	44884.8	45698.0	5.451 mg/L	5.451 mg/L	22:18:12
2	Y 371.029	3373057.8	3373057.8	1.00 mg/L		22:18:59
2	Ag 328.068†	16968.9	19478.2	0.0689 mg/L	0.0689 mg/L	22:19:04
2	Al 237.313†	241218.5	240638.6	27.00 mg/L	27.00 mg/L	22:19:04
2	As 188.979†	24.5	19.7	0.0282 mg/L	0.0282 mg/L	22:19:24
2	B 182.528†	1.0	3.7	0.0139 mg/L	0.0139 mg/L	22:19:24
2	Ba 233.527†	19345.5	19474.7	0.1620 mg/L	0.1620 mg/L	22:19:04
2	Be 313.107†	11106.4	8874.8	0.0003 mg/L	0.0003 mg/L	22:19:04

2	Ca 315.886†	808231.2	804290.5	5.514 mg/L	5.514 mg/L	22:18:59
2	Cd 228.802†	211.9	95.6	0.0026 mg/L	0.0026 mg/L	22:19:24
2	Co 228.616†	633.1	808.2	0.0171 mg/L	0.0171 mg/L	22:19:24
2	Cr 267.716†	23317.0	21900.2	0.1440 mg/L	0.1440 mg/L	22:19:04
2	Cu 324.752†	119720.3	117482.7	0.4545 mg/L	0.4545 mg/L	22:19:04
2	Fe 234.349†	2439689.2	2432048.7	46.49 mg/L	46.49 mg/L	22:18:59
2	Fe 238.204†	5365277.5	5350082.2	45.76 mg/L	45.76 mg/L	22:18:59
2	Mg 279.077†	177023.4	176016.1	7.047 mg/L	7.047 mg/L	22:19:04
2	Mn 257.610†	826185.5	822135.3	0.9019 mg/L	0.9019 mg/L	22:18:59
2	Mo 202.031†	119.7	82.1	0.0056 mg/L	0.0056 mg/L	22:19:24
2	Ni 231.604†	2379.2	2343.3	0.0753 mg/L	0.0753 mg/L	22:19:04
2	P 214.914†	6536.2	6475.3	4.640 mg/L	4.640 mg/L	22:19:04
2	Pb 220.353†	2274.2	2419.7	0.2746 mg/L	0.2746 mg/L	22:19:24
2	Sb 206.836†	27.8	12.5	0.0022 mg/L	0.0022 mg/L	22:19:24
2	Se 196.026†	-9.8	-5.7	0.0032 mg/L	0.0032 mg/L	22:19:24
2	Sn 189.927†	297.3	106.7	0.0250 mg/L	0.0250 mg/L	22:19:24
2	Sr 407.771†	713457.4	705280.5	0.0317 mg/L	0.0317 mg/L	22:18:59
2	Ti 337.279†	1406076.2	1404360.6	1.772 mg/L	1.772 mg/L	22:18:59
2	Tl 190.801†	-5.1	-24.6	0.0130 mg/L	0.0130 mg/L	22:19:24
2	V 292.402†	19553.3	21128.9	0.0764 mg/L	0.0764 mg/L	22:19:04
2	Zn 213.857†	40757.2	39976.3	0.5139 mg/L	0.5139 mg/L	22:19:04

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 Mean Data: 0606373-14

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3359131.4	0.998 mg/L	0.0059			0.59%
Ag 328.068†	19675.8	0.0696 mg/L	0.00098	0.0696 mg/L	0.00098	1.41%
Al 237.313†	242926.8	27.26 mg/L	0.365	27.26 mg/L	0.365	1.34%
As 188.979†	19.5	0.0279 mg/L	0.00045	0.0279 mg/L	0.00045	1.63%
B 182.528†	3.7	0.0139 mg/L	0.00003	0.0139 mg/L	0.00003	0.24%
Ba 233.527†	19663.2	0.1635 mg/L	0.00222	0.1635 mg/L	0.00222	1.36%
Be 313.107†	8945.3	0.0003 mg/L	0.00002	0.0003 mg/L	0.00002	5.69%
Ca 315.886†	805527.1	5.523 mg/L	0.0120	5.523 mg/L	0.0120	0.22%
Cd 228.802†	85.5	0.0023 mg/L	0.00035	0.0023 mg/L	0.00035	14.84%
Co 228.616†	815.0	0.0173 mg/L	0.00024	0.0173 mg/L	0.00024	1.41%
Cr 267.716†	22243.6	0.1462 mg/L	0.00317	0.1462 mg/L	0.00317	2.16%
Cu 324.752†	118750.5	0.4593 mg/L	0.00685	0.4593 mg/L	0.00685	1.49%
Fe 234.349†	2440452.6	46.65 mg/L	0.227	46.65 mg/L	0.227	0.49%
Fe 238.204†	5362083.5	45.87 mg/L	0.145	45.87 mg/L	0.145	0.32%
K 766.490†	5626.7	3.089 mg/L	0.0077	3.089 mg/L	0.0077	0.25%
Li 670.784†	1361.2	0.0368 mg/L	0.00081	0.0368 mg/L	0.00081	2.22%
Mg 279.077†	177762.0	7.117 mg/L	0.0991	7.117 mg/L	0.0991	1.39%
Mn 257.610†	823524.3	0.9035 mg/L	0.00216	0.9035 mg/L	0.00216	0.24%
Mo 202.031†	77.8	0.0053 mg/L	0.00040	0.0053 mg/L	0.00040	7.56%
Na 589.592	45527.5	5.430 mg/L	0.0293	5.430 mg/L	0.0293	0.54%
Ni 231.604†	2349.3	0.0755 mg/L	0.00027	0.0755 mg/L	0.00027	0.36%
P 214.914†	6547.0	4.691 mg/L	0.0722	4.691 mg/L	0.0722	1.54%
Pb 220.353†	2430.0	0.2759 mg/L	0.00170	0.2759 mg/L	0.00170	0.62%
Sb 206.836†	8.0	0.0000 mg/L	0.00314	0.0000 mg/L	0.00314	>999.9%
Se 196.026†	-4.5	0.0048 mg/L	0.00223	0.0048 mg/L	0.00223	46.80%
Sn 189.927†	102.7	0.0240 mg/L	0.00147	0.0240 mg/L	0.00147	6.13%
Sr 407.771†	706370.4	0.0317 mg/L	0.00007	0.0317 mg/L	0.00007	0.22%
Ti 337.279†	1406804.7	1.775 mg/L	0.0044	1.775 mg/L	0.0044	0.25%
Tl 190.801†	-26.3	0.0117 mg/L	0.00195	0.0117 mg/L	0.00195	16.69%
V 292.402†	21335.9	0.0771 mg/L	0.00112	0.0771 mg/L	0.00112	1.45%
Zn 213.857†	40341.3	0.5186 mg/L	0.00666	0.5186 mg/L	0.00666	1.28%

Sequence No.: 42  
 Sample ID: 0606373-15  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 32  
 Date Collected: 6/23/2006 10:21:03 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

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 Replicate Data: 0606373-15

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	9368.3	8856.1	4.860 mg/L	4.860 mg/L	22:22:41
1	Li 670.784†	2672.4	2516.4	0.0700 mg/L	0.0700 mg/L	22:22:41
1	Na 589.592	43681.2	44494.4	5.304 mg/L	5.304 mg/L	22:22:41

1	Y 371.029	3346640.7	3346640.7	0.995 mg/L		22:22:58
1	Ag 328.068†	-2760.4	-221.1	0.0001 mg/L	0.0001 mg/L	22:23:03
1	Al 237.313†	259433.1	260847.8	29.31 mg/L	29.31 mg/L	22:23:03
1	As 188.979†	21.2	16.6	0.0237 mg/L	0.0237 mg/L	22:23:24
1	B 182.528†	4.0	6.7	0.0208 mg/L	0.0208 mg/L	22:23:24
1	Ba 233.527†	20986.7	21276.8	0.1770 mg/L	0.1770 mg/L	22:23:03
1	Be 313.107†	10350.4	8202.2	-0.0002 mg/L	-0.0002 mg/L	22:23:03
1	Ca 315.886†	1155738.8	1159985.2	7.955 mg/L	7.955 mg/L	22:22:58
1	Cd 228.802†	126.2	11.2	0.0006 mg/L	0.0006 mg/L	22:23:24
1	Co 228.616†	1653.6	1839.1	0.0436 mg/L	0.0436 mg/L	22:23:24
1	Cr 267.716†	9608.7	8303.5	0.0555 mg/L	0.0555 mg/L	22:23:03
1	Cu 324.752†	13097.3	11242.6	0.0504 mg/L	0.0504 mg/L	22:23:03
1	Fe 234.349†	2159010.6	2169104.3	41.46 mg/L	41.46 mg/L	22:22:58
1	Fe 238.204†	4754481.0	4778320.1	40.87 mg/L	40.87 mg/L	22:22:58
1	Mg 279.077†	268044.9	268909.1	10.78 mg/L	10.78 mg/L	22:23:03
1	Mn 257.610†	715482.0	717355.2	0.7867 mg/L	0.7867 mg/L	22:22:58
1	Mo 202.031†	83.7	46.9	0.0032 mg/L	0.0032 mg/L	22:23:24
1	Ni 231.604†	2518.6	2502.2	0.0804 mg/L	0.0804 mg/L	22:23:03
1	P 214.914†	6891.5	6883.9	4.931 mg/L	4.931 mg/L	22:23:03
1	Pb 220.353†	156.9	309.3	0.0370 mg/L	0.0370 mg/L	22:23:24
1	Sb 206.836†	22.6	7.6	0.0012 mg/L	0.0012 mg/L	22:23:24
1	Se 196.026†	-7.4	-3.4	0.0061 mg/L	0.0061 mg/L	22:23:24
1	Sn 189.927†	163.9	-25.1	-0.0098 mg/L	-0.0098 mg/L	22:23:24
1	Sr 407.771†	608735.7	605626.1	0.0271 mg/L	0.0271 mg/L	22:22:58
1	Ti 337.279†	1592857.5	1603192.0	2.023 mg/L	2.023 mg/L	22:22:58
1	Tl 190.801†	-10.6	-30.2	0.0060 mg/L	0.0060 mg/L	22:23:24
1	V 292.402†	13303.3	15000.0	0.0524 mg/L	0.0524 mg/L	22:23:03
1	Zn 213.857†	17690.8	17109.7	0.2185 mg/L	0.2185 mg/L	22:23:03
2	K 766.490†	9481.5	9077.9	4.981 mg/L	4.981 mg/L	22:22:46
2	Li 670.784†	2688.3	2563.1	0.0713 mg/L	0.0713 mg/L	22:22:46
2	Na 589.592	43858.3	44671.5	5.326 mg/L	5.326 mg/L	22:22:46
2	Y 371.029	3309109.9	3309109.9	0.984 mg/L		22:23:33
2	Ag 328.068†	-2686.7	-177.7	0.0003 mg/L	0.0003 mg/L	22:23:38
2	Al 237.313†	259102.0	263469.1	29.61 mg/L	29.61 mg/L	22:23:38
2	As 188.979†	23.5	19.1	0.0272 mg/L	0.0272 mg/L	22:23:58
2	B 182.528†	1.7	4.5	0.0157 mg/L	0.0157 mg/L	22:23:58
2	Ba 233.527†	20962.8	21491.8	0.1788 mg/L	0.1788 mg/L	22:23:38
2	Be 313.107†	10376.4	8346.7	-0.0001 mg/L	-0.0001 mg/L	22:23:38
2	Ca 315.886†	1142736.7	1159943.4	7.954 mg/L	7.954 mg/L	22:23:33
2	Cd 228.802†	146.4	33.1	0.0012 mg/L	0.0012 mg/L	22:23:58
2	Co 228.616†	1647.1	1851.4	0.0439 mg/L	0.0439 mg/L	22:23:58
2	Cr 267.716†	9578.0	8381.8	0.0560 mg/L	0.0560 mg/L	22:23:38
2	Cu 324.752†	13043.9	11337.7	0.0508 mg/L	0.0508 mg/L	22:23:38
2	Fe 234.349†	2138170.6	2172532.7	41.52 mg/L	41.52 mg/L	22:23:33
2	Fe 238.204†	4708502.0	4785782.3	40.94 mg/L	40.94 mg/L	22:23:33
2	Mg 279.077†	266843.9	270744.0	10.85 mg/L	10.85 mg/L	22:23:38
2	Mn 257.610†	708313.4	718224.6	0.7876 mg/L	0.7876 mg/L	22:23:33
2	Mo 202.031†	89.8	54.0	0.0037 mg/L	0.0037 mg/L	22:23:58
2	Ni 231.604†	2548.3	2561.1	0.0823 mg/L	0.0823 mg/L	22:23:38
2	P 214.914†	6912.7	6984.0	5.003 mg/L	5.003 mg/L	22:23:38
2	Pb 220.353†	156.4	310.5	0.0372 mg/L	0.0372 mg/L	22:23:58
2	Sb 206.836†	21.7	6.8	0.0009 mg/L	0.0009 mg/L	22:23:58
2	Se 196.026†	-5.1	-1.2	0.0089 mg/L	0.0089 mg/L	22:23:58
2	Sn 189.927†	160.1	-27.1	-0.0103 mg/L	-0.0103 mg/L	22:23:58
2	Sr 407.771†	602875.0	606608.1	0.0272 mg/L	0.0272 mg/L	22:23:33
2	Ti 337.279†	1576655.9	1604881.2	2.025 mg/L	2.025 mg/L	22:23:33
2	Tl 190.801†	-10.3	-30.0	0.0061 mg/L	0.0061 mg/L	22:23:58
2	V 292.402†	13176.3	15022.6	0.0525 mg/L	0.0525 mg/L	22:23:38
2	Zn 213.857†	17818.7	17441.4	0.2227 mg/L	0.2227 mg/L	22:23:38

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 Mean Data: 0606373-15

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample	Std.Dev.	RSD
Y 371.029	3327875.3	0.989 mg/L		0.0079				0.80%
Ag 328.068†	-199.4	0.0002 mg/L		0.00011	0.0002 mg/L		0.00011	60.27%
Al 237.313†	262158.5	29.46 mg/L		0.209	29.46 mg/L		0.209	0.71%
As 188.979†	17.9	0.0255 mg/L		0.00245	0.0255 mg/L		0.00245	9.61%
B 182.528†	5.6	0.0182 mg/L		0.00361	0.0182 mg/L		0.00361	19.81%
Ba 233.527†	21384.3	0.1779 mg/L		0.00127	0.1779 mg/L		0.00127	0.71%
Be 313.107†	8274.5	-0.0002 mg/L		0.00002	-0.0002 mg/L		0.00002	12.97%
Ca 315.886†	1159964.3	7.954 mg/L		0.0002	7.954 mg/L		0.0002	0.00%

Cd 228.802†	22.2	0.0009 mg/L	0.00037	0.0009 mg/L	0.00037	40.89%
Co 228.616†	1845.3	0.0437 mg/L	0.00022	0.0437 mg/L	0.00022	0.51%
Cr 267.716†	8342.7	0.0558 mg/L	0.00036	0.0558 mg/L	0.00036	0.65%
Cu 324.752†	11290.1	0.0506 mg/L	0.00026	0.0506 mg/L	0.00026	0.52%
Fe 234.349†	2170818.5	41.49 mg/L	0.046	41.49 mg/L	0.046	0.11%
Fe 238.204†	4782051.2	40.90 mg/L	0.045	40.90 mg/L	0.045	0.11%
K 766.490†	8967.0	4.920 mg/L	0.0860	4.920 mg/L	0.0860	1.75%
Li 670.784†	2539.8	0.0707 mg/L	0.00095	0.0707 mg/L	0.00095	1.34%
Mg 279.077†	269826.6	10.81 mg/L	0.052	10.81 mg/L	0.052	0.48%
Mn 257.610†	717789.9	0.7871 mg/L	0.00068	0.7871 mg/L	0.00068	0.09%
Mo 202.031†	50.4	0.0035 mg/L	0.00033	0.0035 mg/L	0.00033	9.55%
Na 589.592	44582.9	5.315 mg/L	0.0152	5.315 mg/L	0.0152	0.29%
Ni 231.604†	2531.7	0.0813 mg/L	0.00133	0.0813 mg/L	0.00133	1.64%
P 214.914†	6934.0	4.967 mg/L	0.0504	4.967 mg/L	0.0504	1.02%
Pb 220.353†	309.9	0.0371 mg/L	0.00014	0.0371 mg/L	0.00014	0.38%
Sb 206.836†	7.2	0.0010 mg/L	0.00026	0.0010 mg/L	0.00026	24.60%
Se 196.026†	-2.3	0.0075 mg/L	0.00199	0.0075 mg/L	0.00199	26.61%
Sn 189.927†	-26.1	-0.0101 mg/L	0.00037	-0.0101 mg/L	0.00037	3.67%
Sr 407.771†	606117.1	0.0272 mg/L	0.00003	0.0272 mg/L	0.00003	0.12%
Ti 337.279†	1604036.6	2.024 mg/L	0.0015	2.024 mg/L	0.0015	0.07%
Tl 190.801†	-30.1	0.0060 mg/L	0.00013	0.0060 mg/L	0.00013	2.09%
V 292.402†	15011.3	0.0524 mg/L	0.00006	0.0524 mg/L	0.00006	0.12%
Zn 213.857†	17275.6	0.2206 mg/L	0.00302	0.2206 mg/L	0.00302	1.37%

Sequence No.: 43  
 Sample ID: 0606373-16  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 33  
 Date Collected: 6/23/2006 10:25:37 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: 0606373-16

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	7049.5	6505.2	3.571 mg/L	3.571 mg/L	22:27:13
1	Li 670.784†	1724.1	1558.2	0.0425 mg/L	0.0425 mg/L	22:27:13
1	Na 589.592	42444.9	43258.1	5.154 mg/L	5.154 mg/L	22:27:13
1	Y 371.029	3356097.4	3356097.4	0.998 mg/L		22:27:30
1	Ag 328.068†	-3180.7	-634.6	-0.0007 mg/L	-0.0007 mg/L	22:27:35
1	Al 237.313†	249867.8	250524.5	28.07 mg/L	28.07 mg/L	22:27:35
1	As 188.979†	30.4	25.8	0.0365 mg/L	0.0365 mg/L	22:27:56
1	B 182.528†	2.1	4.8	0.0163 mg/L	0.0163 mg/L	22:27:56
1	Ba 233.527†	18469.9	18694.4	0.1555 mg/L	0.1555 mg/L	22:27:35
1	Be 313.107†	12918.4	10747.1	0.0007 mg/L	0.0007 mg/L	22:27:35
1	Ca 315.886†	924407.6	924821.4	6.341 mg/L	6.341 mg/L	22:27:30
1	Cd 228.802†	158.1	42.8	0.0013 mg/L	0.0013 mg/L	22:27:56
1	Co 228.616†	722.8	901.4	0.0196 mg/L	0.0196 mg/L	22:27:56
1	Cr 267.716†	7857.3	6520.7	0.0446 mg/L	0.0446 mg/L	22:27:35
1	Cu 324.752†	15468.4	13582.3	0.0621 mg/L	0.0621 mg/L	22:27:35
1	Fe 234.349†	3035086.0	3041180.9	58.13 mg/L	58.13 mg/L	22:27:30
1	Fe 238.204†	6631628.3	6646535.4	56.85 mg/L	56.85 mg/L	22:27:30
1	Mg 279.077†	191564.6	191484.7	7.667 mg/L	7.667 mg/L	22:27:35
1	Mn 257.610†	1140540.8	1141414.3	1.253 mg/L	1.253 mg/L	22:27:30
1	Mo 202.031†	159.3	122.4	0.0082 mg/L	0.0082 mg/L	22:27:56
1	Ni 231.604†	1717.1	1691.7	0.0544 mg/L	0.0544 mg/L	22:27:35
1	P 214.914†	6045.7	6016.6	4.313 mg/L	4.313 mg/L	22:27:56
1	Pb 220.353†	385.6	538.0	0.0618 mg/L	0.0618 mg/L	22:27:56
1	Sb 206.836†	16.5	1.3	-0.0013 mg/L	-0.0013 mg/L	22:27:56
1	Se 196.026†	-9.4	-5.4	0.0036 mg/L	0.0036 mg/L	22:27:56
1	Sn 189.927†	161.6	-27.8	-0.0101 mg/L	-0.0101 mg/L	22:27:56
1	Sr 407.771†	893507.9	889362.0	0.0400 mg/L	0.0400 mg/L	22:27:30
1	Ti 337.279†	1388616.5	1393945.8	1.759 mg/L	1.759 mg/L	22:27:30
1	Tl 190.801†	-20.4	-39.9	0.0065 mg/L	0.0065 mg/L	22:27:56
1	V 292.402†	13956.3	15616.9	0.0531 mg/L	0.0531 mg/L	22:27:35
1	Zn 213.857†	33878.1	33286.0	0.4264 mg/L	0.4264 mg/L	22:27:35
2	K 766.490†	7075.3	6579.2	3.611 mg/L	3.611 mg/L	22:27:18
2	Li 670.784†	1737.8	1583.8	0.0432 mg/L	0.0432 mg/L	22:27:18
2	Na 589.592	42855.0	43668.2	5.204 mg/L	5.204 mg/L	22:27:18
2	Y 371.029	3333445.7	3333445.7	0.991 mg/L		22:28:04
2	Ag 328.068†	-3180.2	-655.7	-0.0007 mg/L	-0.0007 mg/L	22:28:10
2	Al 237.313†	252231.3	254611.9	28.53 mg/L	28.53 mg/L	22:28:10

2	As	188.979†	27.9	23.4	0.0333 mg/L	0.0333 mg/L	22:28:30
2	B	182.528†	4.6	7.4	0.0221 mg/L	0.0221 mg/L	22:28:30
2	Ba	233.527†	18651.9	19004.0	0.1581 mg/L	0.1581 mg/L	22:28:10
2	Be	313.107†	12870.4	10786.7	0.0007 mg/L	0.0007 mg/L	22:28:10
2	Ca	315.886†	924542.0	931253.8	6.385 mg/L	6.385 mg/L	22:28:04
2	Cd	228.802†	150.0	35.7	0.0012 mg/L	0.0012 mg/L	22:28:30
2	Co	228.616†	742.7	926.4	0.0202 mg/L	0.0202 mg/L	22:28:30
2	Cr	267.716†	7989.5	6707.6	0.0459 mg/L	0.0459 mg/L	22:28:10
2	Cu	324.752†	15751.2	13973.1	0.0637 mg/L	0.0637 mg/L	22:28:10
2	Fe	234.349†	3043929.2	3070779.8	58.70 mg/L	58.70 mg/L	22:28:04
2	Fe	238.204†	6634292.7	6694397.0	57.26 mg/L	57.26 mg/L	22:28:04
2	Mg	279.077†	193247.5	194488.0	7.788 mg/L	7.788 mg/L	22:28:10
2	Mn	257.610†	1141938.7	1150594.2	1.263 mg/L	1.263 mg/L	22:28:04
2	Mo	202.031†	158.6	122.8	0.0082 mg/L	0.0082 mg/L	22:28:30
2	Ni	231.604†	1753.6	1740.2	0.0560 mg/L	0.0560 mg/L	22:28:10
2	P	214.914†	6097.2	6109.7	4.380 mg/L	4.380 mg/L	22:28:30
2	Pb	220.353†	407.9	563.1	0.0647 mg/L	0.0647 mg/L	22:28:30
2	Sb	206.836†	27.8	12.9	0.0043 mg/L	0.0043 mg/L	22:28:30
2	Se	196.026†	-8.5	-4.5	0.0047 mg/L	0.0047 mg/L	22:28:30
2	Sn	189.927†	168.7	-19.5	-0.0079 mg/L	-0.0079 mg/L	22:28:30
2	Sr	407.771†	895636.3	897596.3	0.0403 mg/L	0.0403 mg/L	22:28:04
2	Ti	337.279†	1394905.7	1409751.8	1.779 mg/L	1.779 mg/L	22:28:04
2	Tl	190.801†	-26.7	-46.5	0.0013 mg/L	0.0013 mg/L	22:28:30
2	V	292.402†	14182.3	15940.0	0.0543 mg/L	0.0543 mg/L	22:28:10
2	Zn	213.857†	34279.9	33922.3	0.4345 mg/L	0.4345 mg/L	22:28:10

Mean Data: 0606373-16

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3344771.6	0.994 mg/L	0.0048			0.48%
Ag 328.068†	-645.2	-0.0007 mg/L	0.00004	-0.0007 mg/L	0.00004	5.17%
Al 237.313†	252568.2	28.30 mg/L	0.325	28.30 mg/L	0.325	1.15%
As 188.979†	24.6	0.0349 mg/L	0.00228	0.0349 mg/L	0.00228	6.52%
B 182.528†	6.1	0.0192 mg/L	0.00409	0.0192 mg/L	0.00409	21.25%
Ba 233.527†	18849.2	0.1568 mg/L	0.00182	0.1568 mg/L	0.00182	1.16%
Be 313.107†	10766.9	0.0007 mg/L	0.00001	0.0007 mg/L	0.00001	0.98%
Ca 315.886†	928037.6	6.363 mg/L	0.0312	6.363 mg/L	0.0312	0.49%
Cd 228.802†	39.3	0.0013 mg/L	0.00010	0.0013 mg/L	0.00010	8.31%
Co 228.616†	913.9	0.0199 mg/L	0.00043	0.0199 mg/L	0.00043	2.18%
Cr 267.716†	6614.1	0.0453 mg/L	0.00088	0.0453 mg/L	0.00088	1.94%
Cu 324.752†	13777.7	0.0629 mg/L	0.00113	0.0629 mg/L	0.00113	1.80%
Fe 234.349†	3055980.3	58.41 mg/L	0.400	58.41 mg/L	0.400	0.68%
Fe 238.204†	6670466.2	57.06 mg/L	0.290	57.06 mg/L	0.290	0.51%
K 766.490†	6542.2	3.591 mg/L	0.0287	3.591 mg/L	0.0287	0.80%
Li 670.784†	1571.0	0.0428 mg/L	0.00052	0.0428 mg/L	0.00052	1.21%
Mg 279.077†	192986.3	7.728 mg/L	0.0852	7.728 mg/L	0.0852	1.10%
Mn 257.610†	1146004.3	1.258 mg/L	0.0071	1.258 mg/L	0.0071	0.57%
Mo 202.031†	122.6	0.0082 mg/L	0.00002	0.0082 mg/L	0.00002	0.25%
Na 589.592	43463.2	5.179 mg/L	0.0352	5.179 mg/L	0.0352	0.68%
Ni 231.604†	1715.9	0.0552 mg/L	0.00110	0.0552 mg/L	0.00110	1.99%
P 214.914†	6063.1	4.346 mg/L	0.0469	4.346 mg/L	0.0469	1.08%
Pb 220.353†	550.6	0.0633 mg/L	0.00205	0.0633 mg/L	0.00205	3.24%
Sb 206.836†	7.1	0.0015 mg/L	0.00391	0.0015 mg/L	0.00391	262.22%
Se 196.026†	-4.9	0.0042 mg/L	0.00082	0.0042 mg/L	0.00082	19.55%
Sn 189.927†	-23.7	-0.0090 mg/L	0.00159	-0.0090 mg/L	0.00159	17.60%
Sr 407.771†	893479.2	0.0402 mg/L	0.00026	0.0402 mg/L	0.00026	0.66%
Ti 337.279†	1401848.8	1.769 mg/L	0.0141	1.769 mg/L	0.0141	0.80%
Tl 190.801†	-43.2	0.0039 mg/L	0.00368	0.0039 mg/L	0.00368	93.30%
V 292.402†	15778.5	0.0537 mg/L	0.00084	0.0537 mg/L	0.00084	1.56%
Zn 213.857†	33604.2	0.4305 mg/L	0.00579	0.4305 mg/L	0.00579	1.34%

Sequence No.: 44  
Sample ID: 0606373-17  
Analyst:  
Initial Sample Wt:  
Dilution:

Autosampler Location: 34  
Date Collected: 6/23/2006 10:30:08 PM  
Data Type: Original  
Initial Sample Vol:  
Sample Prep Vol:

Replicate Data: 0606373-17

Net Corrected Calib. Sample Analysis



Repl#	Analyte	Intensity	Intensity	Conc. Units	Conc. Units	Time
1	K 766.490†	7327.7	6897.1	3.785 mg/L	3.785 mg/L	22:31:44
1	Li 670.784†	2607.9	2484.4	0.0691 mg/L	0.0691 mg/L	22:31:44
1	Na 589.592	43812.7	44626.0	5.320 mg/L	5.320 mg/L	22:31:44
1	Y 371.029	3305206.2	3305206.2	0.982 mg/L		22:32:01
1	Ag 328.068†	-2746.6	-241.8	0.0007 mg/L	0.0007 mg/L	22:32:06
1	Al 237.313†	285615.4	290766.9	32.62 mg/L	32.62 mg/L	22:32:06
1	As 188.979†	63.2	59.6	0.0825 mg/L	0.0825 mg/L	22:32:26
1	B 182.528†	-2.5	0.2	0.0060 mg/L	0.0060 mg/L	22:32:26
1	Ba 233.527†	31422.6	32163.5	0.2678 mg/L	0.2678 mg/L	22:32:06
1	Be 313.107†	11770.3	9777.9	0.0002 mg/L	0.0002 mg/L	22:32:06
1	Ca 315.886†	1467556.9	1491933.9	10.23 mg/L	10.23 mg/L	22:32:01
1	Cd 228.802†	193.9	81.7	0.0021 mg/L	0.0021 mg/L	22:32:26
1	Co 228.616†	1002.3	1197.0	0.0267 mg/L	0.0267 mg/L	22:32:26
1	Cr 267.716†	11172.8	10016.6	0.0671 mg/L	0.0671 mg/L	22:32:06
1	Cu 324.752†	12937.2	11244.7	0.0534 mg/L	0.0534 mg/L	22:32:06
1	Fe 234.349†	2980322.1	3032284.5	57.96 mg/L	57.96 mg/L	22:32:01
1	Fe 238.204†	6502218.7	6617171.6	56.60 mg/L	56.60 mg/L	22:32:01
1	Mg 279.077†	291327.1	295984.8	11.87 mg/L	11.87 mg/L	22:32:06
1	Mn 257.610†	1367652.0	1390183.3	1.527 mg/L	1.527 mg/L	22:32:01
1	Mo 202.031†	88.2	52.5	0.0036 mg/L	0.0036 mg/L	22:32:26
1	Ni 231.604†	1675.2	1675.5	0.0539 mg/L	0.0539 mg/L	22:32:26
1	P 214.914†	5944.2	6006.6	4.306 mg/L	4.306 mg/L	22:32:26
1	Pb 220.353†	42.1	194.4	0.0239 mg/L	0.0239 mg/L	22:32:26
1	Sb 206.836†	17.5	2.6	-0.0014 mg/L	-0.0014 mg/L	22:32:26
1	Se 196.026†	-0.3	3.8	0.0151 mg/L	0.0151 mg/L	22:32:26
1	Sn 189.927†	160.3	-26.7	-0.0095 mg/L	-0.0095 mg/L	22:32:26
1	Sr 407.771†	1258215.8	1274371.0	0.0574 mg/L	0.0574 mg/L	22:32:01
1	Ti 337.279†	1594646.3	1625085.9	2.051 mg/L	2.051 mg/L	22:32:01
1	Tl 190.801†	-16.3	-36.1	0.0138 mg/L	0.0138 mg/L	22:32:26
1	V 292.402†	16213.7	18130.1	-0.0626 mg/L	0.0626 mg/L	22:32:06
1	Zn 213.857†	13648.6	13218.3	0.1669 mg/L	0.1669 mg/L	22:32:26
2	K 766.490†	7472.1	7000.7	3.842 mg/L	3.842 mg/L	22:31:49
2	Li 670.784†	2655.6	2517.6	0.0700 mg/L	0.0700 mg/L	22:31:49
2	Na 589.592	44547.0	45360.2	5.410 mg/L	5.410 mg/L	22:31:49
2	Y 371.029	3324151.2	3324151.2	0.988 mg/L		22:32:35
2	Ag 328.068†	-2654.6	-132.8	0.0011 mg/L	0.0011 mg/L	22:32:41
2	Al 237.313†	285819.7	289316.8	32.45 mg/L	32.45 mg/L	22:32:41
2	As 188.979†	59.1	55.1	0.0764 mg/L	0.0764 mg/L	22:33:01
2	B 182.528†	0.3	3.0	0.0123 mg/L	0.0123 mg/L	22:33:01
2	Ba 233.527†	31481.4	32040.7	0.2668 mg/L	0.2668 mg/L	22:32:41
2	Be 313.107†	11674.3	9612.5	0.0002 mg/L	0.0002 mg/L	22:32:41
2	Ca 315.886†	1471932.2	1487848.8	10.20 mg/L	10.20 mg/L	22:32:35
2	Cd 228.802†	185.6	72.2	0.0019 mg/L	0.0019 mg/L	22:33:01
2	Co 228.616†	1011.7	1200.8	0.0268 mg/L	0.0268 mg/L	22:33:01
2	Cr 267.716†	11295.0	10075.5	0.0675 mg/L	0.0675 mg/L	22:32:41
2	Cu 324.752†	12878.1	11109.8	0.0529 mg/L	0.0529 mg/L	22:32:41
2	Fe 234.349†	2989564.5	3024349.6	57.81 mg/L	57.81 mg/L	22:32:35
2	Fe 238.204†	6526486.2	6604012.5	56.49 mg/L	56.49 mg/L	22:32:35
2	Mg 279.077†	290971.5	293934.9	11.78 mg/L	11.78 mg/L	22:32:41
2	Mn 257.610†	1371270.9	1385912.1	1.522 mg/L	1.522 mg/L	22:32:35
2	Mo 202.031†	103.8	67.8	0.0046 mg/L	0.0046 mg/L	22:33:01
2	Ni 231.604†	1690.2	1680.9	0.0541 mg/L	0.0541 mg/L	22:33:01
2	P 214.914†	5953.2	5981.2	4.288 mg/L	4.288 mg/L	22:33:01
2	Pb 220.353†	9.1	160.7	0.0201 mg/L	0.0201 mg/L	22:33:01
2	Sb 206.836†	16.7	1.7	-0.0018 mg/L	-0.0018 mg/L	22:33:01
2	Se 196.026†	-6.4	-2.4	0.0073 mg/L	0.0073 mg/L	22:33:01
2	Sn 189.927†	159.1	-28.8	-0.0101 mg/L	-0.0101 mg/L	22:33:01
2	Sr 407.771†	1264836.1	1273772.2	0.0574 mg/L	0.0574 mg/L	22:32:35
2	Ti 337.279†	1603482.3	1624777.9	2.050 mg/L	2.050 mg/L	22:32:35
2	Tl 190.801†	-22.5	-42.3	0.0087 mg/L	0.0087 mg/L	22:33:01
2	V 292.402†	16151.3	17972.8	0.0620 mg/L	0.0620 mg/L	22:32:41
2	Zn 213.857†	13683.2	13174.2	0.1663 mg/L	0.1663 mg/L	22:33:01

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Mean Data: 0606373-17

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3314678.7	0.985 mg/L	0.0040			0.40%
Ag 328.068†	-187.3	0.0009 mg/L	0.00026	0.0009 mg/L	0.00026	30.00%
Al 237.313†	290041.8	32.54 mg/L	0.115	32.54 mg/L	0.115	0.35%
As 188.979†	57.3	0.0794 mg/L	0.00432	0.0794 mg/L	0.00432	5.43%

B 182.528†	1.6	0.0091 mg/L	0.00444	0.0091 mg/L	0.00444	48.63%
Ba 233.527†	32102.1	0.2673 mg/L	0.00072	0.2673 mg/L	0.00072	0.27%
Be 313.107†	9695.2	0.0002 mg/L	0.00002	0.0002 mg/L	0.00002	11.52%
Ca 315.886†	1489891.4	10.22 mg/L	0.020	10.22 mg/L	0.020	0.19%
Cd 228.802†	76.9	0.0020 mg/L	0.00014	0.0020 mg/L	0.00014	7.25%
Co 228.616†	1198.9	0.0268 mg/L	0.00007	0.0268 mg/L	0.00007	0.26%
Cr 267.716†	10046.1	0.0673 mg/L	0.00027	0.0673 mg/L	0.00027	0.39%
Cu 324.752†	11177.2	0.0532 mg/L	0.00038	0.0532 mg/L	0.00038	0.72%
Fe 234.349†	3028317.0	57.88 mg/L	0.107	57.88 mg/L	0.107	0.19%
Fe 238.204†	6610592.0	56.55 mg/L	0.080	56.55 mg/L	0.080	0.14%
K 766.490†	6948.9	3.814 mg/L	0.0401	3.814 mg/L	0.0401	1.05%
Li 670.784†	2501.0	0.0695 mg/L	0.00067	0.0695 mg/L	0.00067	0.97%
Mg 279.077†	294959.8	11.83 mg/L	0.058	11.83 mg/L	0.058	0.49%
Mn 257.610†	1388047.7	1.524 mg/L	0.0033	1.524 mg/L	0.0033	0.22%
Mo 202.031†	60.1	0.0041 mg/L	0.00071	0.0041 mg/L	0.00071	17.24%
Na 589.592	44993.1	5.365 mg/L	0.0631	5.365 mg/L	0.0631	1.18%
Ni 231.604†	1678.2	0.0540 mg/L	0.00012	0.0540 mg/L	0.00012	0.23%
P 214.914†	5993.9	4.297 mg/L	0.0128	4.297 mg/L	0.0128	0.30%
Pb 220.353†	177.6	0.0220 mg/L	0.00270	0.0220 mg/L	0.00270	12.29%
Sb 206.836†	2.1	-0.0016 mg/L	0.00031	-0.0016 mg/L	0.00031	19.58%
Se 196.026†	0.7	0.0112 mg/L	0.00548	0.0112 mg/L	0.00548	48.91%
Sn 189.927†	-27.7	-0.0098 mg/L	0.00041	-0.0098 mg/L	0.00041	4.17%
Sr 407.771†	1274071.6	0.0574 mg/L	0.00002	0.0574 mg/L	0.00002	0.03%
Ti 337.279†	1624931.9	2.050 mg/L	0.0003	2.050 mg/L	0.0003	0.01%
Tl 190.801†	-39.2	0.0113 mg/L	0.00365	0.0113 mg/L	0.00365	32.43%
V 292.402†	18051.4	0.0623 mg/L	0.00042	0.0623 mg/L	0.00042	0.67%
Zn 213.857†	13196.2	0.1666 mg/L	0.00040	0.1666 mg/L	0.00040	0.24%

Sequence No.: 45  
Sample ID: 0606373-18  
Analyst:  
Initial Sample Wt:  
Dilution:

Autosampler Location: 35  
Date Collected: 6/23/2006 10:34:40 PM  
Data Type: Original  
Initial Sample Vol:  
Sample Prep Vol:

Replicate Data: 0606373-18

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	8628.7	7958.8	4.368 mg/L	4.368 mg/L	22:36:19
1	Li 670.784†	1997.3	1802.1	0.0495 mg/L	0.0495 mg/L	22:36:19
1	Na 589.592	51657.7	52470.9	6.273 mg/L	6.273 mg/L	22:36:19
1	Y 371.029	3407029.7	3407029.7	1.01 mg/L		22:36:44
1	Ag 328.068†	29843.1	32021.8	0.1156 mg/L	0.1156 mg/L	22:36:49
1	Al 237.313†	395943.0	391019.3	43.67 mg/L	43.67 mg/L	22:36:44
1	As 188.979†	74.4	68.8	0.0945 mg/L	0.0945 mg/L	22:37:09
1	B 182.528†	3.5	6.1	0.0194 mg/L	0.0194 mg/L	22:37:09
1	Ba 233.527†	73560.0	72815.4	0.6066 mg/L	0.6066 mg/L	22:36:49
1	Be 313.107†	18382.4	15948.9	0.0018 mg/L	0.0018 mg/L	22:36:49
1	Ca 315.886†	3782299.6	3732939.4	25.61 mg/L	25.61 mg/L	22:36:44
1	Cd 228.802†	597.5	474.3	0.0123 mg/L	0.0123 mg/L	22:37:09
1	Co 228.616†	2030.2	2181.5	0.0520 mg/L	0.0520 mg/L	22:37:09
1	Cr 267.716†	130387.5	127393.0	0.8295 mg/L	0.8295 mg/L	22:36:49
1	Cu 324.752†	436355.4	428947.3	1.651 mg/L	1.651 mg/L	22:36:44
1	Fe 234.349†	6350773.5	6269711.1	119.8 mg/L	119.8 mg/L	22:36:37
1	Fe 238.204†	13383876.6	13214536.2	113.0 mg/L	113.0 mg/L	22:36:37
1	Mg 279.077†	261608.3	257777.4	10.36 mg/L	10.36 mg/L	22:36:49
1	Mn 257.610†	5929847.1	5853431.4	6.437 mg/L	6.437 mg/L	22:36:37
1	Mo 202.031†	267.9	227.2	0.0151 mg/L	0.0151 mg/L	22:37:09
1	Ni 231.604†	10569.8	10407.3	0.3333 mg/L	0.3333 mg/L	22:36:49
1	P 214.914†	16167.0	15920.0	11.37 mg/L	11.37 mg/L	22:36:49
1	Pb 220.353†	20434.7	20329.4	2.298 mg/L	2.298 mg/L	22:36:49
1	Sb 206.836†	47.7	31.9	-0.0015 mg/L	-0.0015 mg/L	22:37:09
1	Se 196.026†	-3.6	0.5	0.0110 mg/L	0.0110 mg/L	22:37:09
1	Sn 189.927†	624.5	426.8	0.1133 mg/L	0.1133 mg/L	22:37:09
1	Sr 407.771†	2867622.0	2825273.5	0.1275 mg/L	0.1275 mg/L	22:36:37
1	Ti 337.279†	1802429.3	1781748.4	2.248 mg/L	2.248 mg/L	22:36:44
1	Tl 190.801†	-95.2	-113.5	0.0326 mg/L	0.0326 mg/L	22:37:09
1	V 292.402†	99129.6	99510.5	0.3773 mg/L	0.3773 mg/L	22:36:49
1	Zn 213.857†	190322.0	187255.9	2.412 mg/L	2.412 mg/L	22:36:49
2	K 766.490†	8669.9	8056.2	4.421 mg/L	4.421 mg/L	22:36:24
2	Li 670.784†	1966.9	1785.0	0.0490 mg/L	0.0490 mg/L	22:36:24

2	Na 589.592	51799.9	52613.1	6.291 mg/L	6.291 mg/L	22:36:24
2	Y 371.029	3384619.1	3384619.1	1.01 mg/L		22:37:26
2	Ag 328.068†	29829.1	32203.0	0.1162 mg/L	0.1162 mg/L	22:37:31
2	Al 237.313†	392095.7	389784.0	43.53 mg/L	43.53 mg/L	22:37:26
2	As 188.979†	79.1	73.9	0.1015 mg/L	0.1015 mg/L	22:37:52
2	B 182.528†	5.0	7.7	0.0229 mg/L	0.0229 mg/L	22:37:52
2	Ba 233.527†	73596.0	73332.1	0.6109 mg/L	0.6109 mg/L	22:37:31
2	Be 313.107†	18184.0	15871.9	0.0018 mg/L	0.0018 mg/L	22:37:31
2	Ca 315.886†	3736309.9	3711956.0	25.46 mg/L	25.46 mg/L	22:37:26
2	Cd 228.802†	623.7	504.3	0.0130 mg/L	0.0130 mg/L	22:37:52
2	Co 228.616†	1994.7	2159.5	0.0514 mg/L	0.0514 mg/L	22:37:52
2	Cr 267.716†	130385.1	128243.2	0.8351 mg/L	0.8351 mg/L	22:37:31
2	Cu 324.752†	432986.9	428452.1	1.649 mg/L	1.649 mg/L	22:37:26
2	Fe 234.349†	6317611.2	6278270.8	120.0 mg/L	120.0 mg/L	22:37:20
2	Fe 238.204†	13255332.1	13174272.1	112.7 mg/L	112.7 mg/L	22:37:20
2	Mg 279.077†	261328.4	259209.6	10.42 mg/L	10.42 mg/L	22:37:31
2	Mn 257.610†	5869566.3	5832284.1	6.414 mg/L	6.414 mg/L	22:37:20
2	Mo 202.031†	246.3	207.5	0.0138 mg/L	0.0138 mg/L	22:37:52
2	Ni 231.604†	10560.1	10466.8	0.3352 mg/L	0.3352 mg/L	22:37:31
2	P 214.914†	16145.5	16004.4	11.43 mg/L	11.43 mg/L	22:37:31
2	Pb 220.353†	20340.0	20368.8	2.302 mg/L	2.302 mg/L	22:37:31
2	Sb 206.836†	59.2	43.7	0.0040 mg/L	0.0040 mg/L	22:37:52
2	Se 196.026†	4.5	8.5	0.0211 mg/L	0.0211 mg/L	22:37:52
2	Sn 189.927†	606.2	412.7	0.1096 mg/L	0.1096 mg/L	22:37:52
2	Sr 407.771†	2847885.9	2824405.3	0.1275 mg/L	0.1275 mg/L	22:37:20
2	Ti 337.279†	1788230.6	1779419.8	2.245 mg/L	2.245 mg/L	22:37:26
2	Tl 190.801†	-96.0	-115.0	0.0311 mg/L	0.0311 mg/L	22:37:52
2	V 292.402†	99014.4	100044.1	0.3793 mg/L	0.3793 mg/L	22:37:31
2	Zn 213.857†	190116.0	188295.4	2.425 mg/L	2.425 mg/L	22:37:31

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 Mean Data: 0606373-18

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3395824.4	1.01 mg/L	0.005			0.47%
Ag 328.068†	32112.4	0.1159 mg/L	0.00045	0.1159 mg/L	0.00045	0.39%
Al 237.313†	390401.7	43.60 mg/L	0.099	43.60 mg/L	0.099	0.23%
As 188.979†	71.3	0.0980 mg/L	0.00497	0.0980 mg/L	0.00497	5.07%
B 182.528†	6.9	0.0212 mg/L	0.00250	0.0212 mg/L	0.00250	11.80%
Ba 233.527†	73073.7	0.6087 mg/L	0.00305	0.6087 mg/L	0.00305	0.50%
Be 313.107†	15910.4	0.0018 mg/L	0.00001	0.0018 mg/L	0.00001	0.40%
Ca 315.886†	3722447.7	25.54 mg/L	0.102	25.54 mg/L	0.102	0.40%
Cd 228.802†	489.3	0.0126 mg/L	0.00049	0.0126 mg/L	0.00049	3.90%
Co 228.616†	2170.5	0.0517 mg/L	0.00040	0.0517 mg/L	0.00040	0.78%
Cr 267.716†	127818.1	0.8323 mg/L	0.00392	0.8323 mg/L	0.00392	0.47%
Cu 324.752†	428699.7	1.650 mg/L	0.0013	1.650 mg/L	0.0013	0.08%
Fe 234.349†	6273991.0	119.9 mg/L	0.12	119.9 mg/L	0.12	0.10%
Fe 238.204†	13194404.1	112.9 mg/L	0.24	112.9 mg/L	0.24	0.22%
K 766.490†	8007.5	4.394 mg/L	0.0378	4.394 mg/L	0.0378	0.86%
Li 670.784†	1793.6	0.0492 mg/L	0.00035	0.0492 mg/L	0.00035	0.71%
Mg 279.077†	258493.5	10.39 mg/L	0.040	10.39 mg/L	0.040	0.39%
Mn 257.610†	5842857.7	6.425 mg/L	0.0165	6.425 mg/L	0.0165	0.26%
Mo 202.031†	217.4	0.0145 mg/L	0.00092	0.0145 mg/L	0.00092	6.35%
Na 589.592	52542.0	6.282 mg/L	0.0122	6.282 mg/L	0.0122	0.19%
Ni 231.604†	10437.1	0.3342 mg/L	0.00135	0.3342 mg/L	0.00135	0.40%
P 214.914†	15962.2	11.40 mg/L	0.043	11.40 mg/L	0.043	0.37%
Pb 220.353†	20349.1	2.300 mg/L	0.0031	2.300 mg/L	0.0031	0.14%
Sb 206.836†	37.8	0.0012 mg/L	0.00392	0.0012 mg/L	0.00392	320.33%
Se 196.026†	4.5	0.0160 mg/L	0.00712	0.0160 mg/L	0.00712	44.35%
Sn 189.927†	419.8	0.1114 mg/L	0.00264	0.1114 mg/L	0.00264	2.37%
Sr 407.771†	2824839.4	0.1275 mg/L	0.00003	0.1275 mg/L	0.00003	0.02%
Ti 337.279†	1780584.1	2.247 mg/L	0.0021	2.247 mg/L	0.0021	0.09%
Tl 190.801†	-114.2	0.0319 mg/L	0.00111	0.0319 mg/L	0.00111	3.49%
V 292.402†	99777.3	0.3783 mg/L	0.00147	0.3783 mg/L	0.00147	0.39%
Zn 213.857†	187775.7	2.419 mg/L	0.0095	2.419 mg/L	0.0095	0.39%

Sequence No.: 46  
 Sample ID: BF62317-DUP2  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 36  
 Date Collected: 6/23/2006 10:39:31 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

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Replicate Data: BF62317-DUP2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	9055.9	8460.9	4.643 mg/L	4.643 mg/L	22:41:07
1	Li 670.784†	2095.4	1917.6	0.0528 mg/L	0.0528 mg/L	22:41:07
1	Na 589.592	52538.4	53351.6	6.380 mg/L	6.380 mg/L	22:41:07
1	Y 371.029	3376712.3	3376712.3	1.00 mg/L		22:41:32
1	Ag 328.068†	29157.9	31603.7	0.1144 mg/L	0.1144 mg/L	22:41:37
1	Al 237.313†	408511.1	407051.2	45.45 mg/L	45.45 mg/L	22:41:32
1	As 188.979†	79.2	74.2	0.1018 mg/L	0.1018 mg/L	22:41:57
1	B 182.528†	3.8	6.5	0.0202 mg/L	0.0202 mg/L	22:41:57
1	Ba 233.527†	76396.7	76293.7	0.6356 mg/L	0.6356 mg/L	22:41:37
1	Be 313.107†	19040.3	16767.3	0.0019 mg/L	0.0019 mg/L	22:41:37
1	Ca 315.886†	2868479.5	2856035.8	19.59 mg/L	19.59 mg/L	22:41:32
1	Cd 228.802†	653.6	535.5	0.0138 mg/L	0.0138 mg/L	22:41:57
1	Co 228.616†	2141.6	2310.5	0.0552 mg/L	0.0552 mg/L	22:41:57
1	Cr 267.716†	136395.8	134535.0	0.8760 mg/L	0.8760 mg/L	22:41:37
1	Cu 324.752†	443758.3	440191.3	1.695 mg/L	1.695 mg/L	22:41:32
1	Fe 234.349†	6639415.9	6613587.4	126.4 mg/L	126.4 mg/L	22:41:25
1	Fe 238.204†	13934940.8	13882214.7	118.8 mg/L	118.8 mg/L	22:41:25
1	Mg 279.077†	272626.9	271074.5	10.89 mg/L	10.89 mg/L	22:41:37
1	Mn 257.610†	6261647.0	6236573.7	6.858 mg/L	6.858 mg/L	22:41:25
1	Mo 202.031†	257.0	218.7	0.0146 mg/L	0.0146 mg/L	22:41:57
1	Ni 231.604†	11239.4	11168.2	0.3576 mg/L	0.3576 mg/L	22:41:37
1	P 214.914†	16813.4	16707.4	11.93 mg/L	11.93 mg/L	22:41:37
1	Pb 220.353†	21258.5	21331.2	2.411 mg/L	2.411 mg/L	22:41:37
1	Sb 206.836†	58.9	43.5	0.0030 mg/L	0.0030 mg/L	22:41:57
1	Se 196.026†	1.1	5.2	0.0169 mg/L	0.0169 mg/L	22:41:57
1	Sn 189.927†	594.6	402.6	0.1073 mg/L	0.1073 mg/L	22:41:57
1	Sr 407.771†	2912508.5	2895416.8	0.1307 mg/L	0.1307 mg/L	22:41:25
1	Ti 337.279†	1874498.5	1869530.2	2.359 mg/L	2.359 mg/L	22:41:32
1	Tl 190.801†	-118.5	-137.5	0.0199 mg/L	0.0199 mg/L	22:41:57
1	V 292.402†	103789.6	105032.0	0.3982 mg/L	0.3982 mg/L	22:41:37
1	Zn 213.857†	193228.8	191839.2	2.471 mg/L	2.471 mg/L	22:41:37
2	K 766.490†	9162.0	8502.9	4.666 mg/L	4.666 mg/L	22:41:12
2	Li 670.784†	2090.1	1897.8	0.0522 mg/L	0.0522 mg/L	22:41:12
2	Na 589.592	52857.5	53670.7	6.419 mg/L	6.419 mg/L	22:41:12
2	Y 371.029	3400465.3	3400465.3	1.01 mg/L		22:42:14
2	Ag 328.068†	29193.1	31435.6	0.1138 mg/L	0.1138 mg/L	22:42:19
2	Al 237.313†	411948.1	407608.6	45.51 mg/L	45.51 mg/L	22:42:14
2	As 188.979†	79.3	73.7	0.1011 mg/L	0.1011 mg/L	22:42:40
2	B 182.528†	3.0	5.6	0.0183 mg/L	0.0183 mg/L	22:42:40
2	Ba 233.527†	76535.9	75899.7	0.6323 mg/L	0.6323 mg/L	22:42:19
2	Be 313.107†	18917.9	16513.7	0.0019 mg/L	0.0019 mg/L	22:42:19
2	Ca 315.886†	2880402.5	2847869.0	19.54 mg/L	19.54 mg/L	22:42:14
2	Cd 228.802†	653.5	530.9	0.0137 mg/L	0.0137 mg/L	22:42:40
2	Co 228.616†	2130.5	2284.6	0.0545 mg/L	0.0545 mg/L	22:42:40
2	Cr 267.716†	137193.8	134375.3	0.8750 mg/L	0.8750 mg/L	22:42:19
2	Cu 324.752†	447585.6	440889.5	1.697 mg/L	1.697 mg/L	22:42:14
2	Fe 234.349†	6678214.2	6605765.9	126.3 mg/L	126.3 mg/L	22:42:08
2	Fe 238.204†	14018268.8	13867675.8	118.6 mg/L	118.6 mg/L	22:42:08
2	Mg 279.077†	273294.0	269837.1	10.84 mg/L	10.84 mg/L	22:42:19
2	Mn 257.610†	6299819.9	6230762.5	6.852 mg/L	6.852 mg/L	22:42:08
2	Mo 202.031†	273.9	233.7	0.0155 mg/L	0.0155 mg/L	22:42:40
2	Ni 231.604†	11358.5	11207.7	0.3589 mg/L	0.3589 mg/L	22:42:19
2	P 214.914†	16907.4	16683.4	11.91 mg/L	11.91 mg/L	22:42:19
2	Pb 220.353†	21353.7	21277.5	2.405 mg/L	2.405 mg/L	22:42:19
2	Sb 206.836†	60.1	44.2	0.0034 mg/L	0.0034 mg/L	22:42:40
2	Se 196.026†	0.4	4.4	0.0159 mg/L	0.0159 mg/L	22:42:40
2	Sn 189.927†	582.4	386.4	0.1030 mg/L	0.1030 mg/L	22:42:40
2	Sr 407.771†	2933800.6	2896212.6	0.1307 mg/L	0.1307 mg/L	22:42:08
2	Ti 337.279†	1885665.0	1867532.3	2.356 mg/L	2.356 mg/L	22:42:14
2	Tl 190.801†	-112.3	-130.6	0.0255 mg/L	0.0255 mg/L	22:42:40
2	V 292.402†	104303.7	104818.4	0.3974 mg/L	0.3974 mg/L	22:42:19
2	Zn 213.857†	194707.3	191957.2	2.472 mg/L	2.472 mg/L	22:42:19

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Mean Data: BF62317-DUP2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
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Y 371.029	3388588.8	1.01 mg/L	0.005			0.50%
Ag 328.068†	31519.7	0.1141 mg/L	0.00042	0.1141 mg/L	0.00042	0.37%
Al 237.313†	407329.9	45.48 mg/L	0.045	45.48 mg/L	0.045	0.10%
As 188.979†	74.0	0.1015 mg/L	0.00051	0.1015 mg/L	0.00051	0.50%
B 182.528†	6.1	0.0192 mg/L	0.00134	0.0192 mg/L	0.00134	7.00%
Ba 233.527†	76096.7	0.6339 mg/L	0.00232	0.6339 mg/L	0.00232	0.37%
Be 313.107†	16640.5	0.0019 mg/L	0.00004	0.0019 mg/L	0.00004	1.89%
Ca 315.886†	2851952.4	19.56 mg/L	0.040	19.56 mg/L	0.040	0.20%
Cd 228.802†	533.2	0.0137 mg/L	0.00008	0.0137 mg/L	0.00008	0.59%
Co 228.616†	2297.6	0.0548 mg/L	0.00048	0.0548 mg/L	0.00048	0.87%
Cr 267.716†	134455.2	0.8755 mg/L	0.00074	0.8755 mg/L	0.00074	0.08%
Cu 324.752†	440540.4	1.696 mg/L	0.0019	1.696 mg/L	0.0019	0.11%
Fe 234.349†	6609676.7	126.3 mg/L	0.11	126.3 mg/L	0.11	0.08%
Fe 238.204†	13874945.3	118.7 mg/L	0.09	118.7 mg/L	0.09	0.07%
K 766.490†	8481.9	4.654 mg/L	0.0163	4.654 mg/L	0.0163	0.35%
Li 670.784†	1907.7	0.0525 mg/L	0.00040	0.0525 mg/L	0.00040	0.77%
Mg 279.077†	270455.8	10.87 mg/L	0.035	10.87 mg/L	0.035	0.32%
Mn 257.610†	6233668.1	6.855 mg/L	0.0045	6.855 mg/L	0.0045	0.07%
Mo 202.031†	226.2	0.0151 mg/L	0.00070	0.0151 mg/L	0.00070	4.63%
Na 589.592	53511.2	6.400 mg/L	0.0274	6.400 mg/L	0.0274	0.43%
Ni 231.604†	11188.0	0.3583 mg/L	0.00090	0.3583 mg/L	0.00090	0.25%
P 214.914†	16695.4	11.92 mg/L	0.012	11.92 mg/L	0.012	0.10%
Pb 220.353†	21304.4	2.408 mg/L	0.0043	2.408 mg/L	0.0043	0.18%
Sb 206.836†	43.9	0.0032 mg/L	0.00026	0.0032 mg/L	0.00026	8.17%
Se 196.026†	4.8	0.0164 mg/L	0.00070	0.0164 mg/L	0.00070	4.29%
Sn 189.927†	394.5	0.1051 mg/L	0.00304	0.1051 mg/L	0.00304	2.90%
Sr 407.771†	2895814.7	0.1307 mg/L	0.00003	0.1307 mg/L	0.00003	0.02%
Ti 337.279†	1868531.2	2.358 mg/L	0.0018	2.358 mg/L	0.0018	0.08%
Tl 190.801†	-134.1	0.0227 mg/L	0.00394	0.0227 mg/L	0.00394	17.37%
V 292.402†	104925.2	0.3978 mg/L	0.00057	0.3978 mg/L	0.00057	0.14%
Zn 213.857†	191898.2	2.471 mg/L	0.0011	2.471 mg/L	0.0011	0.04%

Duplicate Check: BF62317-DUP2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	4.394	4.654	0.016	mg/L	5.7
Li 670.784	0.0492	0.0525	0.000	mg/L	6.4
Na 589.592	6.282	6.400	0.027	mg/L	1.9
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.1159	0.1141	0.000	mg/L	1.6
Al 237.313	43.60	45.48	0.045	mg/L	4.2
As 188.979	0.0980	0.1015	0.001	mg/L	3.5
B 182.528	0.0212	0.0192	0.001	mg/L	9.7
Ba 233.527	0.6087	0.6339	0.002	mg/L	4.1
Be 313.107	0.0018	0.0019	0.000	mg/L	4.1
Ca 315.886	25.54	19.56	0.040	mg/L	26.5
Cd 228.802	0.0126	0.0137	0.000	mg/L	8.5
Co 228.616	0.0517	0.0548	0.000	mg/L	5.8
Cr 267.716	0.8323	0.8755	0.001	mg/L	5.1
Cu 324.752	1.650	1.696	0.002	mg/L	2.8
Fe 234.349	119.9	126.3	0.106	mg/L	5.2
Fe 238.204	112.9	118.7	0.088	mg/L	5.0
Mg 279.077	10.39	10.87	0.035	mg/L	4.5
Mn 257.610	6.425	6.855	0.005	mg/L	6.5
Mo 202.031	0.0145	0.0151	0.001	mg/L	4.0
Ni 231.604	0.3342	0.3583	0.001	mg/L	6.9
P 214.914	11.40	11.92	0.012	mg/L	4.5
Pb 220.353	2.300	2.408	0.004	mg/L	4.6
Sb 206.836	0.0012	0.0032	0.000	mg/L	90.0
Se 196.026	0.0160	0.0164	0.001	mg/L	2.0
Sn 189.927	0.1114	0.1051	0.003	mg/L	5.8
Sr 407.771	0.1275	0.1307	0.000	mg/L	2.5
Ti 337.279	2.247	2.358	0.002	mg/L	4.8
Tl 190.801	0.0319	0.0227	0.004	mg/L	33.6
V 292.402	0.3783	0.3978	0.001	mg/L	5.0
Zn 213.857	2.419	2.471	0.001	mg/L	2.2

Sequence No.: 47  
 Sample ID: BF62317-MS2  
 Analyst:

Autosampler Location: 37  
 Date Collected: 6/23/2006 10:44:19 PM  
 Data Type: Original

Initial Sample Wt:  
Dilution:Initial Sample Vol:  
Sample Prep Vol:-----  
Replicate Data: BF62317-MS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	50220.7	50064.5	27.45 mg/L	27.45 mg/L	22:45:59
1	Li 670.784†	18153.1	18129.5	0.5185 mg/L	0.5185 mg/L	22:45:59
1	Na 589.592	240207.1	241020.3	29.18 mg/L	29.18 mg/L	22:45:59
1	Y 371.029	3337284.6	3337284.6	0.992 mg/L	0.992 mg/L	22:46:26
1	Ag 328.068†	87387.7	90646.5	0.3202 mg/L	0.3202 mg/L	22:46:26
1	Al 237.313†	419529.0	422966.4	47.26 mg/L	47.26 mg/L	22:46:26
1	As 188.979†	393.5	392.0	0.5360 mg/L	0.5360 mg/L	22:46:46
1	B 182.528†	193.2	197.5	0.4494 mg/L	0.4494 mg/L	22:46:46
1	Ba 233.527†	125516.3	126708.8	1.056 mg/L	1.056 mg/L	22:46:26
1	Be 313.107†	230428.5	230084.8	0.0458 mg/L	0.0458 mg/L	22:46:26
1	Ca 315.886†	3464341.0	3490467.6	23.95 mg/L	23.95 mg/L	22:46:26
1	Cd 228.802†	9361.5	9321.4	0.2304 mg/L	0.2304 mg/L	22:46:46
1	Co 228.616†	18561.9	18888.4	0.4884 mg/L	0.4884 mg/L	22:46:46
1	Cr 267.716†	202476.7	202754.5	1.318 mg/L	1.318 mg/L	22:46:26
1	Cu 324.752†	550986.5	553507.7	2.125 mg/L	2.125 mg/L	22:46:26
1	Fe 234.349†	6495375.0	6546534.1	125.1 mg/L	125.1 mg/L	22:46:18
1	Fe 238.204†	13652532.0	13761549.6	117.7 mg/L	117.7 mg/L	22:46:18
1	Mg 279.077†	363911.2	366304.1	14.72 mg/L	14.72 mg/L	22:46:26
1	Mn 257.610†	6331143.9	6380334.2	7.017 mg/L	7.017 mg/L	22:46:18
1	Mo 202.031†	6809.7	6827.3	0.4494 mg/L	0.4494 mg/L	22:46:46
1	Ni 231.604†	24463.1	24630.8	0.7889 mg/L	0.7889 mg/L	22:46:26
1	P 214.914†	21944.3	22077.6	15.76 mg/L	15.76 mg/L	22:46:46
1	Pb 220.353†	23934.0	24278.6	2.745 mg/L	2.745 mg/L	22:46:46
1	Sb 206.836†	614.8	604.6	0.2636 mg/L	0.2636 mg/L	22:46:46
1	Se 196.026†	682.4	691.9	0.8776 mg/L	0.8776 mg/L	22:46:46
1	Sn 189.927†	2270.3	2098.8	0.5570 mg/L	0.5570 mg/L	22:46:46
1	Sr 407.771†	3768049.2	3792140.8	0.1712 mg/L	0.1712 mg/L	22:46:18
1	Ti 337.279†	2123449.6	2142553.4	2.703 mg/L	2.703 mg/L	22:46:26
1	Tl 190.801†	423.8	407.7	0.4644 mg/L	0.4644 mg/L	22:46:46
1	V 292.402†	210308.9	213632.3	0.8364 mg/L	0.8364 mg/L	22:46:26
1	Zn 213.857†	221030.4	222139.5	2.861 mg/L	2.861 mg/L	22:46:26
2	K 766.490†	50619.9	50778.8	27.84 mg/L	27.84 mg/L	22:46:04
2	Li 670.784†	18293.3	18383.5	0.5258 mg/L	0.5258 mg/L	22:46:04
2	Na 589.592	241170.0	241983.2	29.30 mg/L	29.30 mg/L	22:46:04
2	Y 371.029	3317005.3	3317005.3	0.986 mg/L	0.986 mg/L	22:47:05
2	Ag 328.068†	86720.7	90508.6	0.3198 mg/L	0.3198 mg/L	22:47:05
2	Al 237.313†	415947.8	421919.7	47.13 mg/L	47.13 mg/L	22:47:05
2	As 188.979†	389.1	389.9	0.5331 mg/L	0.5331 mg/L	22:47:25
2	B 182.528†	198.6	204.2	0.4645 mg/L	0.4645 mg/L	22:47:25
2	Ba 233.527†	124399.5	126349.7	1.053 mg/L	1.053 mg/L	22:47:05
2	Be 313.107†	228196.5	229241.3	0.0456 mg/L	0.0456 mg/L	22:47:05
2	Ca 315.886†	3427609.4	3474564.3	23.84 mg/L	23.84 mg/L	22:47:05
2	Cd 228.802†	9257.8	9273.8	0.2292 mg/L	0.2292 mg/L	22:47:25
2	Co 228.616†	18381.1	18819.5	0.4866 mg/L	0.4866 mg/L	22:47:25
2	Cr 267.716†	200413.5	201909.8	1.313 mg/L	1.313 mg/L	22:47:05
2	Cu 324.752†	547816.9	553688.8	2.126 mg/L	2.126 mg/L	22:47:05
2	Fe 234.349†	6545643.0	6637548.8	126.9 mg/L	126.9 mg/L	22:46:57
2	Fe 238.204†	13743425.8	13937878.0	119.2 mg/L	119.2 mg/L	22:46:57
2	Mg 279.077†	359539.4	364112.9	14.63 mg/L	14.63 mg/L	22:47:05
2	Mn 257.610†	6379527.5	6468425.5	7.114 mg/L	7.114 mg/L	22:46:57
2	Mo 202.031†	6732.9	6791.4	0.4471 mg/L	0.4471 mg/L	22:47:25
2	Ni 231.604†	24327.9	24644.4	0.7893 mg/L	0.7893 mg/L	22:47:05
2	P 214.914†	21682.1	21946.8	15.67 mg/L	15.67 mg/L	22:47:25
2	Pb 220.353†	23714.8	24203.8	2.736 mg/L	2.736 mg/L	22:47:25
2	Sb 206.836†	600.9	594.3	0.2588 mg/L	0.2588 mg/L	22:47:25
2	Se 196.026†	669.2	682.8	0.8662 mg/L	0.8662 mg/L	22:47:25
2	Sn 189.927†	2229.4	2071.3	0.5498 mg/L	0.5498 mg/L	22:47:25
2	Sr 407.771†	3796725.1	3844447.5	0.1736 mg/L	0.1736 mg/L	22:46:57
2	Ti 337.279†	2105956.8	2137898.6	2.697 mg/L	2.697 mg/L	22:47:05
2	Tl 190.801†	435.2	421.9	0.4777 mg/L	0.4777 mg/L	22:47:25
2	V 292.402†	208485.0	213078.6	0.8339 mg/L	0.8339 mg/L	22:47:05
2	Zn 213.857†	218873.8	221314.4	2.850 mg/L	2.850 mg/L	22:47:05

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Mean Data: BF62317-MS2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3327145.0	0.989 mg/L	0.0043			0.43%
Ag 328.068†	90577.5	0.3200 mg/L	0.00029	0.3200 mg/L	0.00029	0.09%
Al 237.313†	422443.1	47.19 mg/L	0.089	47.19 mg/L	0.089	0.19%
As 188.979†	390.9	0.5345 mg/L	0.00202	0.5345 mg/L	0.00202	0.38%
B 182.528†	200.8	0.4569 mg/L	0.01068	0.4569 mg/L	0.01068	2.34%
Ba 233.527†	126529.2	1.054 mg/L	0.0021	1.054 mg/L	0.0021	0.20%
Be 313.107†	229663.0	0.0457 mg/L	0.00011	0.0457 mg/L	0.00011	0.25%
Ca 315.886†	3482516.0	23.89 mg/L	0.077	23.89 mg/L	0.077	0.32%
Cd 228.802†	9297.6	0.2298 mg/L	0.00082	0.2298 mg/L	0.00082	0.35%
Co 228.616†	18854.0	0.4875 mg/L	0.00127	0.4875 mg/L	0.00127	0.26%
Cr 267.716†	202332.1	1.316 mg/L	0.0038	1.316 mg/L	0.0038	0.29%
Cu 324.752†	553598.3	2.125 mg/L	0.0007	2.125 mg/L	0.0007	0.03%
Fe 234.349†	6592041.5	126.0 mg/L	1.23	126.0 mg/L	1.23	0.98%
Fe 238.204†	13849713.8	118.5 mg/L	1.07	118.5 mg/L	1.07	0.90%
K 766.490†	50421.7	27.65 mg/L	0.277	27.65 mg/L	0.277	1.00%
Li 670.784†	18256.5	0.5222 mg/L	0.00516	0.5222 mg/L	0.00516	0.99%
Mg 279.077†	365208.5	14.68 mg/L	0.062	14.68 mg/L	0.062	0.42%
Mn 257.610†	6424379.8	7.065 mg/L	0.0685	7.065 mg/L	0.0685	0.97%
Mo 202.031†	6809.4	0.4483 mg/L	0.00167	0.4483 mg/L	0.00167	0.37%
Na 589.592	241501.8	29.24 mg/L	0.083	29.24 mg/L	0.083	0.28%
Ni 231.604†	24637.6	0.7891 mg/L	0.00031	0.7891 mg/L	0.00031	0.04%
P 214.914†	22012.2	15.71 mg/L	0.066	15.71 mg/L	0.066	0.42%
Pb 220.353†	24241.2	2.741 mg/L	0.0061	2.741 mg/L	0.0061	0.22%
Sb 206.836†	599.5	0.2612 mg/L	0.00342	0.2612 mg/L	0.00342	1.31%
Se 196.026†	687.4	0.8719 mg/L	0.00810	0.8719 mg/L	0.00810	0.93%
Sn 189.927†	2085.0	0.5534 mg/L	0.00511	0.5534 mg/L	0.00511	0.92%
Sr 407.771†	3818294.2	0.1724 mg/L	0.00167	0.1724 mg/L	0.00167	0.97%
Ti 337.279†	2140226.0	2.700 mg/L	0.0042	2.700 mg/L	0.0042	0.15%
Tl 190.801†	414.8	0.4710 mg/L	0.00940	0.4710 mg/L	0.00940	2.00%
V 292.402†	213355.4	0.8352 mg/L	0.00174	0.8352 mg/L	0.00174	0.21%
Zn 213.857†	221727.0	2.855 mg/L	0.0077	2.855 mg/L	0.0077	0.27%

Matrix Recovery Check: BF62317-MS2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	29.39	27.65	0.277	mg/L	93.0
Li 670.784	0.5492	0.5222	0.005	mg/L	94.6
Na 589.592	31.28	29.24	0.083	mg/L	91.8
Ag 328.068	0.3659	0.3200	0.000	mg/L	81.6
Al 237.313	46.10	47.19	0.089	mg/L	143.9
As 188.979	0.5980	0.5345	0.002	mg/L	87.3
B 182.528	0.5212	0.4569	0.011	mg/L	87.2
Ba 233.527	1.109	1.054	0.002	mg/L	89.1
Be 313.107	0.0518	0.0457	0.000	mg/L	87.7
Ca 315.886	30.54	23.89	0.077	mg/L	78.2
Cd 228.802	0.2626	0.2298	0.001	mg/L	86.9
Co 228.616	0.5517	0.4875	0.001	mg/L	87.1
Cr 267.716	1.332	1.316	0.004	mg/L	96.7
Cu 324.752	2.150	2.125	0.001	mg/L	95.1
Fe 234.349	122.4	126.0	1.230	mg/L	243.0
Fe 238.204	115.4	118.5	1.067	mg/L	224.3
Mg 279.077	15.39	14.68	0.062	mg/L	85.8
Mn 257.610	6.925	7.065	0.069	mg/L	128.0
Mo 202.031	0.5145	0.4483	0.002	mg/L	86.8
Ni 231.604	0.8342	0.7891	0.000	mg/L	91.0
P 214.914	16.40	15.71	0.066	mg/L	86.2
Pb 220.353	2.800	2.741	0.006	mg/L	88.2
Sb 206.836	0.5012	0.2612	0.003	mg/L	52.0
Se 196.026	1.016	0.8719	0.008	mg/L	85.6
Sn 189.927	0.6114	0.5534	0.005	mg/L	88.4
Sr 407.771	0.1775	0.1724	0.002	mg/L	89.8
Ti 337.279	2.747	2.700	0.004	mg/L	90.7
Tl 190.801	0.5319	0.4710	0.009	mg/L	87.8
V 292.402	0.8783	0.8352	0.002	mg/L	91.4
Zn 213.857	2.919	2.855	0.008	mg/L	87.3

Sequence No.: 48  
Sample ID: BF62317-SD2

Autosampler Location: 38  
Date Collected: 6/23/2006 10:49:05 PM

Analyst:  
Initial Sample Wt:  
Dilution:

Data Type: Original  
Initial Sample Vol:  
Sample Prep Vol:

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Replicate Data: BF62317-SD2

Repl#	Analyte	Net		Corrected		Calib.		Sample		Analysis Time
		Intensity	Intensity	Intensity	Intensity	Conc. Units	Conc. Units	Conc. Units	Conc. Units	
1	K 766.490†	2268.0	1710.0	0.9415	mg/L	0.9415	mg/L	22:50:44		
1	Li 670.784†	515.2	345.9	0.0076	mg/L	0.0076	mg/L	22:50:44		
1	Na 589.592	10105.3	10918.5	1.225	mg/L	1.225	mg/L	22:50:44		
1	Y 371.029	3359156.3	3359156.3	0.998	mg/L	0.998	mg/L	22:50:59		
1	Ag 328.068†	4794.5	7355.5	0.0259	mg/L	0.0259	mg/L	22:51:04		
1	Al 237.313†	82938.9	83116.6	9.282	mg/L	9.282	mg/L	22:51:04		
1	As 188.979†	21.2	16.5	0.0250	mg/L	0.0250	mg/L	22:51:24		
1	B 182.528†	-1.0	1.7	0.0094	mg/L	0.0094	mg/L	22:51:24		
1	Ba 233.527†	15314.5	15517.4	0.1290	mg/L	0.1290	mg/L	22:51:04		
1	Be 313.107†	5610.4	3416.4	0.0005	mg/L	0.0005	mg/L	22:51:04		
1	Ca 315.886†	769610.0	768947.3	5.272	mg/L	5.272	mg/L	22:50:59		
1	Cd 228.802†	234.5	119.2	0.0030	mg/L	0.0030	mg/L	22:51:24		
1	Co 228.616†	301.7	479.0	0.0113	mg/L	0.0113	mg/L	22:51:24		
1	Cr 267.716†	28309.5	26996.4	0.1755	mg/L	0.1755	mg/L	22:51:04		
1	Cu 324.752†	90466.9	88679.5	0.3403	mg/L	0.3403	mg/L	22:50:59		
1	Fe 234.349†	1361424.6	1362233.2	26.04	mg/L	26.04	mg/L	22:50:59		
1	Fe 238.204†	3022313.0	3025741.0	25.88	mg/L	25.88	mg/L	22:50:59		
1	Mg 279.077†	56884.8	56427.6	2.258	mg/L	2.258	mg/L	22:51:04		
1	Mn 257.610†	1251513.0	1251512.3	1.374	mg/L	1.374	mg/L	22:50:59		
1	Mo 202.031†	85.6	48.4	0.0033	mg/L	0.0033	mg/L	22:51:24		
1	Ni 231.604†	2316.2	2290.0	0.0736	mg/L	0.0736	mg/L	22:51:04		
1	P 214.914†	3428.9	3390.3	2.442	mg/L	2.442	mg/L	22:51:24		
1	Pb 220.353†	4260.1	4418.0	0.4979	mg/L	0.4979	mg/L	22:51:24		
1	Sb 206.836†	21.6	6.4	0.0001	mg/L	0.0001	mg/L	22:51:24		
1	Se 196.026†	-4.2	-0.2	0.0101	mg/L	0.0101	mg/L	22:51:24		
1	Sn 189.927†	200.6	11.0	-0.0025	mg/L	-0.0025	mg/L	22:51:24		
1	Sr 407.771†	602120.7	596721.2	0.0267	mg/L	0.0267	mg/L	22:50:59		
1	Ti 337.279†	363468.3	365988.9	0.4624	mg/L	0.4624	mg/L	22:50:59		
1	Tl 190.801†	-29.1	-48.6	0.0037	mg/L	0.0037	mg/L	22:51:24		
1	V 292.402†	19272.3	20928.2	0.0798	mg/L	0.0798	mg/L	22:51:04		
1	Zn 213.857†	41668.4	41057.1	0.5292	mg/L	0.5292	mg/L	22:51:04		
2	K 766.490†	2281.0	1724.7	0.9495	mg/L	0.9495	mg/L	22:50:49		
2	Li 670.784†	548.4	379.6	0.0086	mg/L	0.0086	mg/L	22:50:49		
2	Na 589.592	10119.9	10933.1	1.227	mg/L	1.227	mg/L	22:50:49		
2	Y 371.029	3356788.8	3356788.8	0.998	mg/L	0.998	mg/L	22:51:32		
2	Ag 328.068†	4593.2	7157.2	0.0252	mg/L	0.0252	mg/L	22:51:37		
2	Al 237.313†	81192.8	81425.3	9.090	mg/L	9.090	mg/L	22:51:37		
2	As 188.979†	22.8	18.1	0.0272	mg/L	0.0272	mg/L	22:51:57		
2	B 182.528†	0.6	3.3	0.0130	mg/L	0.0130	mg/L	22:51:57		
2	Ba 233.527†	14999.8	15212.9	0.1264	mg/L	0.1264	mg/L	22:51:37		
2	Be 313.107†	5573.8	3383.7	0.0005	mg/L	0.0005	mg/L	22:51:37		
2	Ca 315.886†	767641.4	767518.0	5.262	mg/L	5.262	mg/L	22:51:32		
2	Cd 228.802†	232.3	117.1	0.0029	mg/L	0.0029	mg/L	22:51:57		
2	Co 228.616†	275.3	452.7	0.0106	mg/L	0.0106	mg/L	22:51:57		
2	Cr 267.716†	27794.5	26500.3	0.1723	mg/L	0.1723	mg/L	22:51:37		
2	Cu 324.752†	90765.3	89042.4	0.3417	mg/L	0.3417	mg/L	22:51:32		
2	Fe 234.349†	1363850.4	1365625.9	26.10	mg/L	26.10	mg/L	22:51:32		
2	Fe 238.204†	3024632.5	3030200.4	25.92	mg/L	25.92	mg/L	22:51:32		
2	Mg 279.077†	55471.6	55051.4	2.203	mg/L	2.203	mg/L	22:51:37		
2	Mn 257.610†	1251464.5	1252347.6	1.375	mg/L	1.375	mg/L	22:51:32		
2	Mo 202.031†	96.2	59.1	0.0041	mg/L	0.0041	mg/L	22:51:57		
2	Ni 231.604†	2250.3	2225.7	0.0715	mg/L	0.0715	mg/L	22:51:37		
2	P 214.914†	3409.6	3373.4	2.429	mg/L	2.429	mg/L	22:51:57		
2	Pb 220.353†	4260.0	4420.9	0.4982	mg/L	0.4982	mg/L	22:51:57		
2	Sb 206.836†	21.3	6.2	0.0000	mg/L	0.0000	mg/L	22:51:57		
2	Se 196.026†	-7.8	-3.8	0.0056	mg/L	0.0056	mg/L	22:51:57		
2	Sn 189.927†	203.5	14.2	-0.0016	mg/L	-0.0016	mg/L	22:51:57		
2	Sr 407.771†	602139.2	597165.0	0.0268	mg/L	0.0268	mg/L	22:51:32		
2	Ti 337.279†	363145.1	365921.7	0.4623	mg/L	0.4623	mg/L	22:51:32		
2	Tl 190.801†	-14.6	-34.2	0.0156	mg/L	0.0156	mg/L	22:51:57		
2	V 292.402†	18909.1	20577.7	0.0784	mg/L	0.0784	mg/L	22:51:37		
2	Zn 213.857†	40753.9	40170.0	0.5178	mg/L	0.5178	mg/L	22:51:37		



## Mean Data: BF62317-SD2

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Y 371.029	3357972.5	0.998	mg/L	0.0005				
Ag 328.068†	7256.4	0.0255	mg/L	0.00049	0.0255	mg/L	0.00049	1.91%
Al 237.313†	82270.9	9.186	mg/L	0.1354	9.186	mg/L	0.1354	1.47%
As 188.979†	17.3	0.0261	mg/L	0.00158	0.0261	mg/L	0.00158	6.06%
B 182.528†	2.5	0.0112	mg/L	0.00257	0.0112	mg/L	0.00257	22.99%
Ba 233.527†	15365.2	0.1277	mg/L	0.00179	0.1277	mg/L	0.00179	1.41%
Be 313.107†	3400.0	0.0005	mg/L	0.00000	0.0005	mg/L	0.00000	0.98%
Ca 315.886†	768232.6	5.267	mg/L	0.0069	5.267	mg/L	0.0069	0.13%
Cd 228.802†	118.1	0.0030	mg/L	0.00005	0.0030	mg/L	0.00005	1.61%
Co 228.616†	465.8	0.0110	mg/L	0.00048	0.0110	mg/L	0.00048	4.42%
Cr 267.716†	26748.4	0.1739	mg/L	0.00227	0.1739	mg/L	0.00227	1.31%
Cu 324.752†	88861.0	0.3410	mg/L	0.00098	0.3410	mg/L	0.00098	0.29%
Fe 234.349†	1363929.5	26.07	mg/L	0.046	26.07	mg/L	0.046	0.18%
Fe 238.204†	3027970.7	25.90	mg/L	0.027	25.90	mg/L	0.027	0.10%
K 766.490†	1717.3	0.9455	mg/L	0.00568	0.9455	mg/L	0.00568	0.60%
Li 670.784†	362.7	0.0081	mg/L	0.00068	0.0081	mg/L	0.00068	8.43%
Mg 279.077†	55739.5	2.231	mg/L	0.0391	2.231	mg/L	0.0391	1.75%
Mn 257.610†	1251929.9	1.375	mg/L	0.0006	1.375	mg/L	0.0006	0.05%
Mo 202.031†	53.7	0.0037	mg/L	0.00050	0.0037	mg/L	0.00050	13.46%
Na 589.592	10925.8	1.226	mg/L	0.0013	1.226	mg/L	0.0013	0.10%
Ni 231.604†	2257.9	0.0725	mg/L	0.00146	0.0725	mg/L	0.00146	2.01%
P 214.914†	3381.9	2.436	mg/L	0.0086	2.436	mg/L	0.0086	0.35%
Pb 220.353†	4419.5	0.4981	mg/L	0.00021	0.4981	mg/L	0.00021	0.04%
Sb 206.836†	6.3	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	98.16%
Se 196.026†	-2.0	0.0079	mg/L	0.00318	0.0079	mg/L	0.00318	40.43%
Sn 189.927†	12.6	-0.0021	mg/L	0.00059	-0.0021	mg/L	0.00059	28.58%
Sr 407.771†	596943.1	0.0268	mg/L	0.00001	0.0268	mg/L	0.00001	0.05%
Ti 337.279†	365955.3	0.4623	mg/L	0.00006	0.4623	mg/L	0.00006	0.01%
Tl 190.801†	-41.4	0.0097	mg/L	0.00841	0.0097	mg/L	0.00841	86.94%
V 292.402†	20752.9	0.0791	mg/L	0.00098	0.0791	mg/L	0.00098	1.24%
Zn 213.857†	40613.6	0.5235	mg/L	0.00811	0.5235	mg/L	0.00811	1.55%

## Dilution Check: BF62317-SD2

Analyte	Expected	Measured	Std. Dev.	Units	Difference (%)
	Conc.	Conc.			
K 766.490	0.8789	0.9455	0.006	mg/L	7.6
Li 670.784	0.0098	0.0081	0.001	mg/L	17.6
Na 589.592	1.256	1.226	0.001	mg/L	2.4
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.0232	0.0255	0.000	mg/L	10.1
Al 237.313	8.719	9.186	0.135	mg/L	5.4
As 188.979	0.0196	0.0261	0.002	mg/L	33.1
B 182.528	0.0042	0.0112	0.003	mg/L	164.0
Ba 233.527	0.1217	0.1277	0.002	mg/L	4.9
Be 313.107	0.0004	0.0005	0.000	mg/L	39.1
Ca 315.886	5.107	5.267	0.007	mg/L	3.1
Cd 228.802	0.0025	0.0030	0.000	mg/L	18.0
Co 228.616	0.0103	0.0110	0.000	mg/L	5.9
Cr 267.716	0.1665	0.1739	0.002	mg/L	4.5
Cu 324.752	0.3299	0.3410	0.001	mg/L	3.4
Fe 234.349	23.98	26.07	0.046	mg/L	8.7
Fe 238.204	22.57	25.90	0.027	mg/L	14.7
Mg 279.077	2.077	2.231	0.039	mg/L	7.4
Mn 257.610	1.285	1.375	0.001	mg/L	7.0
Mo 202.031	0.0029	0.0037	0.000	mg/L	27.9
Ni 231.604	0.0668	0.0725	0.001	mg/L	8.5
P 214.914	2.280	2.436	0.009	mg/L	6.8
Pb 220.353	0.4600	0.4981	0.000	mg/L	8.3
Sb 206.836	0.0002	0.0001	0.000	mg/L	79.5
Se 196.026	0.0032	0.0079	0.003	mg/L	145.0
Sn 189.927	0.0223	-0.0021	0.001	mg/L	109.2
Sr 407.771	0.0255	0.0268	0.000	mg/L	4.9
Ti 337.279	0.4494	0.4623	0.000	mg/L	2.9
Tl 190.801	0.0064	0.0097	0.008	mg/L	51.7
V 292.402	0.0757	0.0791	0.001	mg/L	4.6
Zn 213.857	0.4837	0.5235	0.008	mg/L	8.2

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3272741.5	0.973 mg/L	0.0001			0.01%
Ag 328.068†	70441.1	0.2449 mg/L	0.00173	0.2449 mg/L	0.00173	0.70%
QC value within limits for Ag		328.068	Recovery = 97.95%			
Al 237.313†	21443.7	2.418 mg/L	0.0188	2.418 mg/L	0.0188	0.78%
QC value within limits for Al		237.313	Recovery = 96.73%			
As 188.979†	358.2	0.4923 mg/L	0.00426	0.4923 mg/L	0.00426	0.86%
QC value within limits for As		188.979	Recovery = 98.46%			
B 182.528†	216.6	0.4924 mg/L	0.00536	0.4924 mg/L	0.00536	1.09%
QC value within limits for B		182.528	Recovery = 98.47%			
Ba 233.527†	58291.6	0.4856 mg/L	0.00408	0.4856 mg/L	0.00408	0.84%
QC value within limits for Ba		233.527	Recovery = 97.13%			
Be 313.107†	233248.9	0.0480 mg/L	0.00030	0.0480 mg/L	0.00030	0.63%
QC value within limits for Be		313.107	Recovery = 95.93%			
Ca 315.886†	707369.4	4.851 mg/L	0.0066	4.851 mg/L	0.0066	0.14%
QC value within limits for Ca		315.886	Recovery = 97.03%			
Cd 228.802†	9795.4	0.2414 mg/L	0.00080	0.2414 mg/L	0.00080	0.33%
QC value within limits for Cd		228.802	Recovery = 96.55%			
Co 228.616†	18414.4	0.4807 mg/L	0.00328	0.4807 mg/L	0.00328	0.68%
QC value within limits for Co		228.616	Recovery = 96.15%			
Cr 267.716†	75227.9	0.4876 mg/L	0.00312	0.4876 mg/L	0.00312	0.64%
QC value within limits for Cr		267.716	Recovery = 97.52%			
Cu 324.752†	130362.9	0.4942 mg/L	0.00384	0.4942 mg/L	0.00384	0.78%
QC value within limits for Cu		324.752	Recovery = 98.84%			
Fe 234.349†	127587.4	2.430 mg/L	0.0197	2.430 mg/L	0.0197	0.81%
QC value within limits for Fe		234.349	Recovery = 97.18%			
Fe 238.204†	285342.2	2.436 mg/L	0.0193	2.436 mg/L	0.0193	0.79%
QC value within limits for Fe		238.204	Recovery = 97.45%			
K 766.490†	44805.4	24.57 mg/L	0.067	24.57 mg/L	0.067	0.27%
QC value within limits for K		766.490	Recovery = 98.28%			
Li 670.784†	17244.2	0.4931 mg/L	0.00092	0.4931 mg/L	0.00092	0.19%
QC value within limits for Li		670.784	Recovery = 98.62%			
Mg 279.077†	121391.2	4.867 mg/L	0.0315	4.867 mg/L	0.0315	0.65%
QC value within limits for Mg		279.077	Recovery = 97.34%			
Mn 257.610†	445190.8	0.4873 mg/L	0.00051	0.4873 mg/L	0.00051	0.10%
QC value within limits for Mn		257.610	Recovery = 97.46%			
Mo 202.031†	7318.8	0.4818 mg/L	0.00131	0.4818 mg/L	0.00131	0.27%
QC value within limits for Mo		202.031	Recovery = 96.36%			
Na 589.592	198069.2	23.96 mg/L	0.024	23.96 mg/L	0.024	0.10%
QC value within limits for Na		589.592	Recovery = 95.85%			
Ni 231.604†	15526.0	0.4976 mg/L	0.00723	0.4976 mg/L	0.00723	1.45%
QC value within limits for Ni		231.604	Recovery = 99.52%			
P 214.914†	6658.2	4.770 mg/L	0.0115	4.770 mg/L	0.0115	0.24%
QC value within limits for P		214.914	Recovery = 95.41%			
Pb 220.353†	4259.0	0.4806 mg/L	0.00027	0.4806 mg/L	0.00027	0.06%
QC value within limits for Pb		220.353	Recovery = 96.12%			
Sb 206.836†	995.1	0.4689 mg/L	0.00109	0.4689 mg/L	0.00109	0.23%
QC value within limits for Sb		206.836	Recovery = 93.79%			
Se 196.026†	758.6	0.9612 mg/L	0.00558	0.9612 mg/L	0.00558	0.58%
QC value within limits for Se		196.026	Recovery = 96.12%			
Sn 189.927†	1736.7	0.4538 mg/L	0.00263	0.4538 mg/L	0.00263	0.58%
QC value within limits for Sn		189.927	Recovery = 90.77%			
Sr 407.771†	1088876.6	0.0490 mg/L	0.00002	0.0490 mg/L	0.00002	0.04%
QC value within limits for Sr		407.771	Recovery = 97.99%			
Ti 337.279†	385467.5	0.4869 mg/L	0.00285	0.4869 mg/L	0.00285	0.58%
QC value within limits for Ti		337.279	Recovery = 97.39%			
Tl 190.801†	600.3	0.5158 mg/L	0.00309	0.5158 mg/L	0.00309	0.60%
QC value within limits for Tl		190.801	Recovery = 103.16%			
V 292.402†	122878.1	0.4958 mg/L	0.00293	0.4958 mg/L	0.00293	0.59%
QC value within limits for V		292.402	Recovery = 99.16%			
Zn 213.857†	37593.0	0.4844 mg/L	0.00291	0.4844 mg/L	0.00291	0.60%
QC value within limits for Zn		213.857	Recovery = 96.89%			

All analyte(s) passed QC.

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Sequence No.: 50
Sample ID: ICCB
Analyst:

Autosampler Location: 1
Date Collected: 6/23/2006 10:58:02 PM
Data Type: Original

Initial Sample Wt:  
Dilution:Initial Sample Vol:  
Sample Prep Vol:-----  
Replicate Data: ICCB

Repl#	Analyte	Net	Corrected	Calib.	Sample	Analysis Time
		Intensity	Intensity	Conc. Units	Conc. Units	
1	K 766.490†	687.1	142.0	0.0818 mg/L	0.0818 mg/L	22:59:35
1	Li 670.784†	205.1	39.9	-0.0012 mg/L	-0.0012 mg/L	22:59:35
1	Na 589.592	-656.6	156.6	-0.0825 mg/L	-0.0825 mg/L	22:59:35
1	Y 371.029	3286607.1	3286607.1	0.977 mg/L		22:59:48
1	Ag 328.068†	-1695.3	818.5	0.0020 mg/L	0.0020 mg/L	22:59:53
1	Al 237.313†	-66.5	-15.0	0.0011 mg/L	0.0011 mg/L	23:00:14
1	As 188.979†	4.3	-0.3	0.0026 mg/L	0.0026 mg/L	23:00:14
1	B 182.528†	2.3	5.1	0.0170 mg/L	0.0170 mg/L	23:00:14
1	Ba 233.527†	-182.4	-6.7	-0.0004 mg/L	-0.0004 mg/L	23:00:14
1	Be 313.107†	2332.6	185.2	0.0002 mg/L	0.0002 mg/L	22:59:53
1	Ca 315.886†	1400.1	-386.5	-0.0068 mg/L	-0.0068 mg/L	22:59:53
1	Cd 228.802†	113.8	0.8	0.0000 mg/L	0.0000 mg/L	23:00:14
1	Co 228.616†	-158.6	14.5	0.0001 mg/L	0.0001 mg/L	23:00:14
1	Cr 267.716†	1299.9	-25.0	-0.0005 mg/L	-0.0005 mg/L	22:59:53
1	Cu 324.752†	3031.1	1179.3	0.0030 mg/L	0.0030 mg/L	22:59:53
1	Fe 234.349†	1375.9	170.3	-0.0006 mg/L	-0.0006 mg/L	23:00:14
1	Fe 238.204†	1297.5	212.8	-0.0035 mg/L	-0.0035 mg/L	23:00:14
1	Mg 279.077†	535.1	5.1	-0.0112 mg/L	-0.0112 mg/L	22:59:53
1	Mn 257.610†	1841.5	2.9	-0.0025 mg/L	-0.0025 mg/L	22:59:53
1	Mo 202.031†	38.6	2.2	0.0003 mg/L	0.0003 mg/L	23:00:14
1	Ni 231.604†	53.3	25.0	0.0011 mg/L	0.0011 mg/L	23:00:14
1	P 214.914†	36.5	-6.4	0.0209 mg/L	0.0209 mg/L	23:00:14
1	Pb 220.353†	-166.1	-18.5	-0.0038 mg/L	-0.0038 mg/L	23:00:14
1	Sb 206.836†	1.6	-13.5	-0.0058 mg/L	-0.0058 mg/L	23:00:14
1	Se 196.026†	-6.5	-2.6	0.0071 mg/L	0.0071 mg/L	23:00:14
1	Sn 189.927†	98.3	-89.2	-0.0306 mg/L	-0.0306 mg/L	23:00:14
1	Sr 407.771†	6296.0	140.0	-0.0002 mg/L	-0.0002 mg/L	22:59:48
1	Ti 337.279†	-2233.9	-312.4	0.0003 mg/L	0.0003 mg/L	22:59:53
1	Tl 190.801†	-0.5	-20.0	0.0048 mg/L	0.0048 mg/L	23:00:14
1	V 292.402†	-1633.6	-45.3	0.0006 mg/L	0.0006 mg/L	22:59:53
1	Zn 213.857†	613.2	-46.3	-0.0001 mg/L	-0.0001 mg/L	23:00:14
2	K 766.490†	581.6	24.6	0.0174 mg/L	0.0174 mg/L	22:59:40
2	Li 670.784†	166.7	-2.1	-0.0024 mg/L	-0.0024 mg/L	22:59:40
2	Na 589.592	-714.0	99.2	-0.0895 mg/L	-0.0895 mg/L	22:59:40
2	Y 371.029	3339028.8	3339028.8	0.993 mg/L		23:00:20
2	Ag 328.068†	-1981.4	557.5	0.0011 mg/L	0.0011 mg/L	23:00:25
2	Al 237.313†	-62.0	-9.4	0.0018 mg/L	0.0018 mg/L	23:00:45
2	As 188.979†	6.1	1.4	0.0049 mg/L	0.0049 mg/L	23:00:45
2	B 182.528†	-0.4	2.3	0.0108 mg/L	0.0108 mg/L	23:00:45
2	Ba 233.527†	-169.0	9.6	-0.0003 mg/L	-0.0003 mg/L	23:00:45
2	Be 313.107†	2330.3	145.4	0.0002 mg/L	0.0002 mg/L	23:00:25
2	Ca 315.886†	1541.6	-266.4	-0.0059 mg/L	-0.0059 mg/L	23:00:25
2	Cd 228.802†	132.1	17.4	0.0004 mg/L	0.0004 mg/L	23:00:45
2	Co 228.616†	-163.1	12.5	0.0001 mg/L	0.0001 mg/L	23:00:45
2	Cr 267.716†	1212.7	-133.8	-0.0012 mg/L	-0.0012 mg/L	23:00:25
2	Cu 324.752†	3013.6	1112.9	0.0028 mg/L	0.0028 mg/L	23:00:25
2	Fe 234.349†	1387.9	160.3	-0.0008 mg/L	-0.0008 mg/L	23:00:45
2	Fe 238.204†	1284.9	179.2	-0.0038 mg/L	-0.0038 mg/L	23:00:45
2	Mg 279.077†	512.7	-26.2	-0.0124 mg/L	-0.0124 mg/L	23:00:25
2	Mn 257.610†	1912.5	44.9	-0.0025 mg/L	-0.0025 mg/L	23:00:25
2	Mo 202.031†	40.2	3.2	0.0004 mg/L	0.0004 mg/L	23:00:45
2	Ni 231.604†	37.9	8.5	0.0006 mg/L	0.0006 mg/L	23:00:45
2	P 214.914†	33.1	-10.4	0.0180 mg/L	0.0180 mg/L	23:00:45
2	Pb 220.353†	-165.7	-15.4	-0.0035 mg/L	-0.0035 mg/L	23:00:45
2	Sb 206.836†	5.9	-9.2	-0.0037 mg/L	-0.0037 mg/L	23:00:45
2	Se 196.026†	-4.3	-0.3	0.0100 mg/L	0.0100 mg/L	23:00:45
2	Sn 189.927†	84.3	-104.8	-0.0347 mg/L	-0.0347 mg/L	23:00:45
2	Sr 407.771†	6504.7	249.0	-0.0002 mg/L	-0.0002 mg/L	23:00:20
2	Ti 337.279†	-2108.3	-150.0	0.0005 mg/L	0.0005 mg/L	23:00:25
2	Tl 190.801†	2.4	-17.1	0.0072 mg/L	0.0072 mg/L	23:00:45
2	V 292.402†	-1662.3	-48.0	0.0005 mg/L	0.0005 mg/L	23:00:25
2	Zn 213.857†	615.9	-53.4	-0.0002 mg/L	-0.0002 mg/L	23:00:45

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Mean Data: ICCB

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3312817.9	0.985 mg/L	0.0110			
Ag 328.068†	688.0	0.0016 mg/L	0.00064	0.0016 mg/L	0.00064	40.27%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	-12.2	0.0014 mg/L	0.00045	0.0014 mg/L	0.00045	31.23%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	0.6	0.0037 mg/L	0.00163	0.0037 mg/L	0.00163	43.54%
QC value within limits for As 188.979 Recovery = Not calculated						
B 182.528†	3.7	0.0139 mg/L	0.00434	0.0139 mg/L	0.00434	31.29%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	1.4	-0.0004 mg/L	0.00010	-0.0004 mg/L	0.00010	26.63%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	165.3	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	3.92%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.886†	-326.4	-0.0063 mg/L	0.00058	-0.0063 mg/L	0.00058	9.17%
QC value within limits for Ca 315.886 Recovery = Not calculated						
Cd 228.802†	9.1	0.0002 mg/L	0.00028	0.0002 mg/L	0.00028	164.36%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	13.5	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	32.03%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-79.4	-0.0009 mg/L	0.00050	-0.0009 mg/L	0.00050	57.98%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	1146.1	0.0029 mg/L	0.00018	0.0029 mg/L	0.00018	6.13%
QC value greater than the upper limit for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	165.3	-0.0007 mg/L	0.00013	-0.0007 mg/L	0.00013	18.55%
QC value within limits for Fe 234.349 Recovery = Not calculated						
Fe 238.204†	196.0	-0.0037 mg/L	0.00020	-0.0037 mg/L	0.00020	5.53%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	83.3	0.0496 mg/L	0.04552	0.0496 mg/L	0.04552	91.79%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 670.784†	18.9	-0.0018 mg/L	0.00085	-0.0018 mg/L	0.00085	48.28%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	-10.6	-0.0118 mg/L	0.00089	-0.0118 mg/L	0.00089	7.53%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	23.9	-0.0025 mg/L	0.00003	-0.0025 mg/L	0.00003	1.31%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	2.7	0.0003 mg/L	0.00005	0.0003 mg/L	0.00005	13.66%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	127.9	-0.0860 mg/L	0.00493	-0.0860 mg/L	0.00493	5.73%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	16.8	0.0008 mg/L	0.00037	0.0008 mg/L	0.00037	44.94%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-8.4	0.0194 mg/L	0.00202	0.0194 mg/L	0.00202	10.39%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-17.0	-0.0036 mg/L	0.00024	-0.0036 mg/L	0.00024	6.70%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-11.4	-0.0048 mg/L	0.00147	-0.0048 mg/L	0.00147	30.85%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1.5	0.0085 mg/L	0.00206	0.0085 mg/L	0.00206	24.10%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-97.0	-0.0326 mg/L	0.00293	-0.0326 mg/L	0.00293	8.98%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	194.5	-0.0002 mg/L	0.00000	-0.0002 mg/L	0.00000	1.55%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	-231.2	0.0004 mg/L	0.00014	0.0004 mg/L	0.00014	36.40%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	-18.6	0.0060 mg/L	0.00171	0.0060 mg/L	0.00171	28.49%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	-46.6	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	1.18%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-49.8	-0.0001 mg/L	0.00006	-0.0001 mg/L	0.00006	46.63%
QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 51  
 Sample ID: BF62317-PDS2  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 39  
 Date Collected: 6/23/2006 11:02:22 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

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 Replicate Data: BF62317-PDS2

Repl#	Analyte	Net		Corrected		Calib.		Sample		Analysis Time
		Intensity	Conc.	Intensity	Conc.	Units	Units	Conc.	Units	
1	K 766.490†	51802.7	28.35	51702.8	28.35	mg/L	28.35	mg/L	23:03:59	
1	Li 670.784†	18640.1	0.5331	18636.1	0.5331	mg/L	0.5331	mg/L	23:03:59	
1	Na 589.592	245586.6	29.83	246399.8	29.83	mg/L	29.83	mg/L	23:03:59	
1	Y 371.029	3334499.3	0.991	3334499.3	0.991	mg/L	0.991	mg/L	23:04:25	
1	Ag 328.068†	95808.3	0.3499	99215.7	0.3499	mg/L	0.3499	mg/L	23:04:30	
1	Al 237.313†	405630.4	45.73	409297.1	45.73	mg/L	45.73	mg/L	23:04:25	
1	As 188.979†	409.5	0.5585	408.4	0.5585	mg/L	0.5585	mg/L	23:04:51	
1	B 182.528†	215.3	0.4999	219.9	0.4999	mg/L	0.4999	mg/L	23:04:51	
1	Ba 233.527†	127779.2	1.076	129097.6	1.076	mg/L	1.076	mg/L	23:04:30	
1	Be 313.107†	238246.5	0.0475	238166.5	0.0475	mg/L	0.0475	mg/L	23:04:25	
1	Ca 315.886†	4323254.3	29.91	4359950.1	29.91	mg/L	29.91	mg/L	23:04:18	
1	Cd 228.802†	9756.2	0.2403	9727.5	0.2403	mg/L	0.2403	mg/L	23:04:51	
1	Co 228.616†	19194.8	0.5057	19542.6	0.5057	mg/L	0.5057	mg/L	23:04:30	
1	Cr 267.716†	201611.6	1.314	202052.1	1.314	mg/L	1.314	mg/L	23:04:30	
1	Cu 324.752†	547474.5	2.112	550428.5	2.112	mg/L	2.112	mg/L	23:04:25	
1	Fe 234.349†	6322151.5	121.9	6377236.8	121.9	mg/L	121.9	mg/L	23:04:18	
1	Fe 238.204†	13312172.9	114.9	13429654.3	114.9	mg/L	114.9	mg/L	23:04:18	
1	Mg 279.077†	370545.3	15.00	373303.7	15.00	mg/L	15.00	mg/L	23:04:30	
1	Mn 257.610†	6169499.7	6.843	6222581.0	6.843	mg/L	6.843	mg/L	23:04:18	
1	Mo 202.031†	7203.7	0.4760	7230.6	0.4760	mg/L	0.4760	mg/L	23:04:51	
1	Ni 231.604†	25370.3	0.8188	25566.7	0.8188	mg/L	0.8188	mg/L	23:04:30	
1	P 214.914†	22138.9	15.91	22292.4	15.91	mg/L	15.91	mg/L	23:04:30	
1	Pb 220.353†	23769.0	2.728	24132.3	2.728	mg/L	2.728	mg/L	23:04:30	
1	Sb 206.836†	962.5	0.4328	955.9	0.4328	mg/L	0.4328	mg/L	23:04:51	
1	Se 196.026†	736.5	0.9467	747.1	0.9467	mg/L	0.9467	mg/L	23:04:51	
1	Sn 189.927†	2387.1	0.5885	2218.5	0.5885	mg/L	0.5885	mg/L	23:04:51	
1	Sr 407.771†	3799788.4	0.1728	3827335.7	0.1728	mg/L	0.1728	mg/L	23:04:18	
1	Ti 337.279†	2048352.5	2.610	2068575.3	2.610	mg/L	2.610	mg/L	23:04:25	
1	Tl 190.801†	477.6	0.5061	462.3	0.5061	mg/L	0.5061	mg/L	23:04:51	
1	V 292.402†	215972.2	0.8608	219523.2	0.8608	mg/L	0.8608	mg/L	23:04:30	
1	Zn 213.857†	223691.8	2.898	225010.7	2.898	mg/L	2.898	mg/L	23:04:30	
2	K 766.490†	52120.9	28.40	51783.9	28.40	mg/L	28.40	mg/L	23:04:04	
2	Li 670.784†	18688.3	0.5320	18598.7	0.5320	mg/L	0.5320	mg/L	23:04:04	
2	Na 589.592	247580.0	30.08	248393.2	30.08	mg/L	30.08	mg/L	23:04:04	
2	Y 371.029	3349781.4	0.996	3349781.4	0.996	mg/L	0.996	mg/L	23:05:08	
2	Ag 328.068†	94693.6	0.3445	97655.1	0.3445	mg/L	0.3445	mg/L	23:05:13	
2	Al 237.313†	406650.3	45.63	408454.4	45.63	mg/L	45.63	mg/L	23:05:08	
2	As 188.979†	411.6	0.5588	408.6	0.5588	mg/L	0.5588	mg/L	23:05:34	
2	B 182.528†	217.6	0.5029	221.3	0.5029	mg/L	0.5029	mg/L	23:05:34	
2	Ba 233.527†	126313.8	1.059	127037.7	1.059	mg/L	1.059	mg/L	23:05:13	
2	Be 313.107†	239146.9	0.0475	237974.2	0.0475	mg/L	0.0475	mg/L	23:05:08	
2	Ca 315.886†	4305539.6	29.65	4322260.1	29.65	mg/L	29.65	mg/L	23:05:02	
2	Cd 228.802†	9694.8	0.2376	9620.9	0.2376	mg/L	0.2376	mg/L	23:05:34	
2	Co 228.616†	18917.4	0.4961	19175.7	0.4961	mg/L	0.4961	mg/L	23:05:13	
2	Cr 267.716†	198951.2	1.290	198452.3	1.290	mg/L	1.290	mg/L	23:05:13	
2	Cu 324.752†	551118.2	2.117	551568.0	2.117	mg/L	2.117	mg/L	23:05:08	
2	Fe 234.349†	6314474.7	121.2	6340427.6	121.2	mg/L	121.2	mg/L	23:05:02	
2	Fe 238.204†	13284031.5	114.1	13340118.9	114.1	mg/L	114.1	mg/L	23:05:02	
2	Mg 279.077†	364323.5	14.68	365349.6	14.68	mg/L	14.68	mg/L	23:05:13	
2	Mn 257.610†	6152039.0	6.793	6176648.4	6.793	mg/L	6.793	mg/L	23:05:02	
2	Mo 202.031†	7190.9	0.4730	7184.6	0.4730	mg/L	0.4730	mg/L	23:05:34	
2	Ni 231.604†	24912.2	0.8004	24989.8	0.8004	mg/L	0.8004	mg/L	23:05:13	
2	P 214.914†	21834.4	15.62	21884.6	15.62	mg/L	15.62	mg/L	23:05:13	
2	Pb 220.353†	23484.4	2.684	23737.1	2.684	mg/L	2.684	mg/L	23:05:13	
2	Sb 206.836†	950.4	0.4252	939.3	0.4252	mg/L	0.4252	mg/L	23:05:34	
2	Se 196.026†	724.7	0.9277	731.9	0.9277	mg/L	0.9277	mg/L	23:05:34	
2	Sn 189.927†	2376.3	0.5827	2196.7	0.5827	mg/L	0.5827	mg/L	23:05:34	
2	Sr 407.771†	3790823.4	0.1716	3800842.5	0.1716	mg/L	0.1716	mg/L	23:05:02	
2	Ti 337.279†	2055711.1	2.607	2066537.5	2.607	mg/L	2.607	mg/L	23:05:08	
2	Tl 190.801†	479.5	0.5052	462.1	0.5052	mg/L	0.5052	mg/L	23:05:34	
2	V 292.402†	213352.8	0.8465	215898.4	0.8465	mg/L	0.8465	mg/L	23:05:13	
2	Zn 213.857†	221143.8	2.852	221422.2	2.852	mg/L	2.852	mg/L	23:05:13	

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 Mean Data: BF62317-PDS2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3342140.3	0.993 mg/L	0.0032			0.32%

Ag 328.068†	98435.4	0.3472 mg/L	0.00386	0.3472 mg/L	0.00386	1.11%
Al 237.313†	408875.8	45.68 mg/L	0.065	45.68 mg/L	0.065	0.14%
As 188.979†	408.5	0.5587 mg/L	0.00024	0.5587 mg/L	0.00024	0.04%
B 182.528†	220.6	0.5014 mg/L	0.00214	0.5014 mg/L	0.00214	0.43%
Ba 233.527†	128067.6	1.067 mg/L	0.0121	1.067 mg/L	0.0121	1.14%
Be 313.107†	238070.4	0.0475 mg/L	0.00003	0.0475 mg/L	0.00003	0.07%
Ca 315.886†	4341105.1	29.78 mg/L	0.183	29.78 mg/L	0.183	0.61%
Cd 228.802†	9674.2	0.2390 mg/L	0.00190	0.2390 mg/L	0.00190	0.80%
Co 228.616†	19359.2	0.5009 mg/L	0.00679	0.5009 mg/L	0.00679	1.35%
Cr 267.716†	200252.2	1.302 mg/L	0.0165	1.302 mg/L	0.0165	1.27%
Cu 324.752†	550998.2	2.114 mg/L	0.0030	2.114 mg/L	0.0030	0.14%
Fe 234.349†	6358832.2	121.5 mg/L	0.50	121.5 mg/L	0.50	0.41%
Fe 238.204†	13384886.6	114.5 mg/L	0.54	114.5 mg/L	0.54	0.47%
K 766.490†	51743.3	28.37 mg/L	0.031	28.37 mg/L	0.031	0.11%
Li 670.784†	18617.4	0.5325 mg/L	0.00076	0.5325 mg/L	0.00076	0.14%
Mg 279.077†	369326.6	14.84 mg/L	0.226	14.84 mg/L	0.226	1.52%
Mn 257.610†	6199614.7	6.818 mg/L	0.0357	6.818 mg/L	0.0357	0.52%
Mo 202.031†	7207.6	0.4745 mg/L	0.00214	0.4745 mg/L	0.00214	0.45%
Na 589.592	247396.5	29.96 mg/L	0.171	29.96 mg/L	0.171	0.57%
Ni 231.604†	25278.3	0.8096 mg/L	0.01306	0.8096 mg/L	0.01306	1.61%
P 214.914†	22088.5	15.77 mg/L	0.205	15.77 mg/L	0.205	1.30%
Pb 220.353†	23934.7	2.706 mg/L	0.0316	2.706 mg/L	0.0316	1.17%
Sb 206.836†	947.6	0.4290 mg/L	0.00536	0.4290 mg/L	0.00536	1.25%
Se 196.026†	739.5	0.9372 mg/L	0.01348	0.9372 mg/L	0.01348	1.44%
Sn 189.927†	2207.6	0.5856 mg/L	0.00411	0.5856 mg/L	0.00411	0.70%
Sr 407.771†	3814089.1	0.1722 mg/L	0.00085	0.1722 mg/L	0.00085	0.49%
Ti 337.279†	2067556.4	2.609 mg/L	0.0018	2.609 mg/L	0.0018	0.07%
Tl 190.801†	462.2	0.5057 mg/L	0.00065	0.5057 mg/L	0.00065	0.13%
V 292.402†	217710.8	0.8536 mg/L	0.01014	0.8536 mg/L	0.01014	1.19%
Zn 213.857†	223216.5	2.875 mg/L	0.0327	2.875 mg/L	0.0327	1.14%

Matrix Recovery Check: BF62317-PDS2

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	29.39	28.37	0.031	mg/L	95.9
Li 670.784	0.5492	0.5325	0.001	mg/L	96.7
Na 589.592	31.28	29.96	0.171	mg/L	94.7
Ag 328.068	0.3659	0.3472	0.004	mg/L	92.5
Al 237.313	46.10	45.68	0.065	mg/L	83.3
As 188.979	0.5980	0.5587	0.000	mg/L	92.1
B 182.528	0.5212	0.5014	0.002	mg/L	96.0
Ba 233.527	1.109	1.067	0.012	mg/L	91.7
Be 313.107	0.0518	0.0475	0.000	mg/L	91.4
Ca 315.886	30.54	29.78	0.183	mg/L	84.9
Cd 228.802	0.2626	0.2390	0.002	mg/L	90.5
Co 228.616	0.5517	0.5009	0.007	mg/L	89.8
Cr 267.716	1.332	1.302	0.017	mg/L	94.0
Cu 324.752	2.150	2.114	0.003	mg/L	93.0
Fe 234.349	122.4	121.5	0.497	mg/L	64.7
Fe 238.204	115.4	114.5	0.542	mg/L	65.2
Mg 279.077	15.39	14.84	0.226	mg/L	89.1
Mn 257.610	6.925	6.818	0.036	mg/L	78.5
Mo 202.031	0.5145	0.4745	0.002	mg/L	92.0
Ni 231.604	0.8342	0.8096	0.013	mg/L	95.1
P 214.914	16.40	15.77	0.205	mg/L	87.3
Pb 220.353	2.800	2.706	0.032	mg/L	81.2
Sb 206.836	0.5012	0.4290	0.005	mg/L	85.5
Se 196.026	1.016	0.9372	0.013	mg/L	92.1
Sn 189.927	0.6114	0.5856	0.004	mg/L	94.8
Sr 407.771	0.1775	0.1722	0.001	mg/L	89.4
Ti 337.279	2.747	2.609	0.002	mg/L	72.4
Tl 190.801	0.5319	0.5057	0.001	mg/L	94.8
V 292.402	0.8783	0.8536	0.010	mg/L	95.1
Zn 213.857	2.919	2.875	0.033	mg/L	91.2

Sequence No.: 52  
 Sample ID: 0606373-19  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 40  
 Date Collected: 6/23/2006 11:07:14 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

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Replicate Data: 0606373-19

Repl#	Analyte	Net		Corrected		Calib.		Sample		Analysis Time
		Intensity	Intensity	Intensity	Intensity	Conc.	Units	Conc.	Units	
1	K 766.490†	4507.0	4021.8	2.209	mg/L	2.209	mg/L	23:08:48		
1	Li 670.784†	1105.3	954.0	0.0251	mg/L	0.0251	mg/L	23:08:48		
1	Na 589.592	42929.7	43742.9	5.213	mg/L	5.213	mg/L	23:08:48		
1	Y 371.029	3308281.4	3308281.4	0.983	mg/L			23:09:06		
1	Ag 328.068†	-1989.9	530.3	0.0038	mg/L	0.0038	mg/L	23:09:11		
1	Al 237.313†	107930.6	109808.1	12.11	mg/L	12.11	mg/L	23:09:11		
1	As 188.979†	78.6	75.2	0.1052	mg/L	0.1052	mg/L	23:09:31		
1	B 182.528†	3.6	6.4	0.0199	mg/L	0.0199	mg/L	23:09:31		
1	Ba 233.527†	12017.1	12400.2	0.1030	mg/L	0.1030	mg/L	23:09:11		
1	Be 313.107†	5997.3	3896.2	0.0005	mg/L	0.0005	mg/L	23:09:11		
1	Ca 315.886†	793911.5	805512.4	5.522	mg/L	5.522	mg/L	23:09:06		
1	Cd 228.802†	248.6	137.1	0.0035	mg/L	0.0035	mg/L	23:09:31		
1	Co 228.616†	1554.0	1757.1	0.0441	mg/L	0.0441	mg/L	23:09:31		
1	Cr 267.716†	7946.9	6725.7	0.0452	mg/L	0.0452	mg/L	23:09:11		
1	Cu 324.752†	5174.6	3338.7	0.0243	mg/L	0.0243	mg/L	23:09:11		
1	Fe 234.349†	3543775.3	3602442.6	68.86	mg/L	68.86	mg/L	23:09:06		
1	Fe 238.204†	7697413.0	7826417.9	66.95	mg/L	66.95	mg/L	23:09:06		
1	Mg 279.077†	115644.3	117056.4	4.697	mg/L	4.697	mg/L	23:09:11		
1	Mn 257.610†	3061830.7	3111707.1	3.421	mg/L	3.421	mg/L	23:09:06		
1	Mo 202.031†	94.6	58.9	0.0040	mg/L	0.0040	mg/L	23:09:31		
1	Ni 231.604†	1041.4	1029.4	0.0333	mg/L	0.0333	mg/L	23:09:31		
1	P 214.914†	5141.3	5184.5	3.720	mg/L	3.720	mg/L	23:09:31		
1	Pb 220.353†	-65.1	85.3	0.0070	mg/L	0.0070	mg/L	23:09:31		
1	Sb 206.836†	8.9	-6.1	-0.0039	mg/L	-0.0039	mg/L	23:09:31		
1	Se 196.026†	-4.4	-0.4	0.0098	mg/L	0.0098	mg/L	23:09:31		
1	Sn 189.927†	161.8	-25.2	-0.0101	mg/L	-0.0101	mg/L	23:09:31		
1	Sr 407.771†	649456.0	654130.0	0.0293	mg/L	0.0293	mg/L	23:09:06		
1	Ti 337.279†	589798.4	601742.8	0.7597	mg/L	0.7597	mg/L	23:09:06		
1	Tl 190.801†	-40.1	-60.3	0.0287	mg/L	0.0287	mg/L	23:09:31		
1	V 292.402†	5631.5	7353.6	0.0201	mg/L	0.0201	mg/L	23:09:11		
1	Zn 213.857†	6908.2	6351.1	0.0766	mg/L	0.0766	mg/L	23:09:11		
2	K 766.490†	4462.8	4022.9	2.210	mg/L	2.210	mg/L	23:08:54		
2	Li 670.784†	1080.9	940.3	0.0247	mg/L	0.0247	mg/L	23:08:54		
2	Na 589.592	42700.5	43513.7	5.185	mg/L	5.185	mg/L	23:08:54		
2	Y 371.029	3275069.5	3275069.5	0.974	mg/L			23:09:40		
2	Ag 328.068†	-2204.1	289.7	0.0030	mg/L	0.0030	mg/L	23:09:46		
2	Al 237.313†	109546.5	112581.0	12.42	mg/L	12.42	mg/L	23:09:46		
2	As 188.979†	74.6	71.9	0.1007	mg/L	0.1007	mg/L	23:10:06		
2	B 182.528†	3.3	6.1	0.0193	mg/L	0.0193	mg/L	23:10:06		
2	Ba 233.527†	12175.6	12686.9	0.1054	mg/L	0.1054	mg/L	23:09:46		
2	Be 313.107†	6055.3	4017.7	0.0005	mg/L	0.0005	mg/L	23:09:46		
2	Ca 315.886†	783714.7	803225.1	5.507	mg/L	5.507	mg/L	23:09:40		
2	Cd 228.802†	233.0	123.7	0.0032	mg/L	0.0032	mg/L	23:10:06		
2	Co 228.616†	1569.7	1789.3	0.0450	mg/L	0.0450	mg/L	23:10:06		
2	Cr 267.716†	8073.2	6937.3	0.0466	mg/L	0.0466	mg/L	23:09:46		
2	Cu 324.752†	5176.9	3394.3	0.0245	mg/L	0.0245	mg/L	23:09:46		
2	Fe 234.349†	3501188.6	3595241.2	68.72	mg/L	68.72	mg/L	23:09:40		
2	Fe 238.204†	7610086.6	7816092.5	66.86	mg/L	66.86	mg/L	23:09:40		
2	Mg 279.077†	117707.8	120368.7	4.830	mg/L	4.830	mg/L	23:09:46		
2	Mn 257.610†	3028096.9	3108629.5	3.417	mg/L	3.417	mg/L	23:09:40		
2	Mo 202.031†	97.9	63.3	0.0043	mg/L	0.0043	mg/L	23:10:06		
2	Ni 231.604†	1039.2	1037.8	0.0335	mg/L	0.0335	mg/L	23:10:06		
2	P 214.914†	5133.2	5229.2	3.752	mg/L	3.752	mg/L	23:10:06		
2	Pb 220.353†	-82.1	67.1	0.0050	mg/L	0.0050	mg/L	23:10:06		
2	Sb 206.836†	7.3	-7.7	-0.0047	mg/L	-0.0047	mg/L	23:10:06		
2	Se 196.026†	-5.6	-1.7	0.0082	mg/L	0.0082	mg/L	23:10:06		
2	Sn 189.927†	166.2	-19.1	-0.0084	mg/L	-0.0084	mg/L	23:10:06		
2	Sr 407.771†	643564.0	654775.0	0.0294	mg/L	0.0294	mg/L	23:09:40		
2	Ti 337.279†	584331.0	602208.8	0.7603	mg/L	0.7603	mg/L	23:09:40		
2	Tl 190.801†	-51.8	-72.7	0.0185	mg/L	0.0185	mg/L	23:10:06		
2	V 292.402†	5743.0	7526.2	0.0208	mg/L	0.0208	mg/L	23:09:46		
2	Zn 213.857†	7050.6	6568.6	0.0794	mg/L	0.0794	mg/L	23:09:46		

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Mean Data: 0606373-19

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
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Y 371.029	3291675.5	0.978 mg/L	0.0070				0.71%
Ag 328.068†	410.0	0.0034 mg/L	0.00060	0.0034 mg/L	0.00060		17.59%
Al 237.313†	111194.6	12.26 mg/L	0.222	12.26 mg/L	0.222		1.81%
As 188.979†	73.6	0.1029 mg/L	0.00317	0.1029 mg/L	0.00317		3.08%
B 182.528†	6.2	0.0196 mg/L	0.00041	0.0196 mg/L	0.00041		2.10%
Ba 233.527†	12543.5	0.1042 mg/L	0.00169	0.1042 mg/L	0.00169		1.62%
Be 313.107†	3957.0	0.0005 mg/L	0.00002	0.0005 mg/L	0.00002		3.26%
Ca 315.886†	804368.8	5.515 mg/L	0.0111	5.515 mg/L	0.0111		0.20%
Cd 228.802†	130.4	0.0033 mg/L	0.00021	0.0033 mg/L	0.00021		6.46%
Co 228.616†	1773.2	0.0446 mg/L	0.00059	0.0446 mg/L	0.00059		1.33%
Cr 267.716†	6831.5	0.0459 mg/L	0.00097	0.0459 mg/L	0.00097		2.11%
Cu 324.752†	3366.5	0.0244 mg/L	0.00013	0.0244 mg/L	0.00013		0.54%
Fe 234.349†	3598841.9	68.79 mg/L	0.097	68.79 mg/L	0.097		0.14%
Fe 238.204†	7821255.2	66.90 mg/L	0.062	66.90 mg/L	0.062		0.09%
K 766.490†	4022.4	2.209 mg/L	0.0004	2.209 mg/L	0.0004		0.02%
Li 670.784†	947.1	0.0249 mg/L	0.00028	0.0249 mg/L	0.00028		1.12%
Mg 279.077†	118712.6	4.763 mg/L	0.0941	4.763 mg/L	0.0941		1.97%
Mn 257.610†	3110168.3	3.419 mg/L	0.0024	3.419 mg/L	0.0024		0.07%
Mo 202.031†	61.1	0.0042 mg/L	0.00020	0.0042 mg/L	0.00020		4.86%
Na 589.592	43628.3	5.199 mg/L	0.0197	5.199 mg/L	0.0197		0.38%
Ni 231.604†	1033.6	0.0334 mg/L	0.00019	0.0334 mg/L	0.00019		0.57%
P 214.914†	5206.8	3.736 mg/L	0.0225	3.736 mg/L	0.0225		0.60%
Pb 220.353†	76.2	0.0060 mg/L	0.00140	0.0060 mg/L	0.00140		23.45%
Sb 206.836†	-6.9	-0.0043 mg/L	0.00056	-0.0043 mg/L	0.00056		13.05%
Se 196.026†	-1.1	0.0090 mg/L	0.00115	0.0090 mg/L	0.00115		12.78%
Sn 189.927†	-22.2	-0.0093 mg/L	0.00114	-0.0093 mg/L	0.00114		12.36%
Sr 407.771†	654452.5	0.0294 mg/L	0.00002	0.0294 mg/L	0.00002		0.07%
Ti 337.279†	601975.8	0.7600 mg/L	0.00042	0.7600 mg/L	0.00042		0.05%
Tl 190.801†	-66.5	0.0236 mg/L	0.00724	0.0236 mg/L	0.00724		30.66%
V 292.402†	7439.9	0.0204 mg/L	0.00050	0.0204 mg/L	0.00050		2.45%
Zn 213.857†	6459.8	0.0780 mg/L	0.00200	0.0780 mg/L	0.00200		2.56%

Sequence No.: 53

Sample ID: BF62320-BLK1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 41

Date Collected: 6/23/2006 11:11:42 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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 Replicate Data: BF62320-BLK1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	K 766.490†	598.5	47.6	0.0300	mg/L	0.0300	mg/L	23:13:16
1	Li 670.784†	102.2	-66.1	-0.0042	mg/L	-0.0042	mg/L	23:13:16
1	Na 589.592	12248.0	13061.2	1.485	mg/L	1.485	mg/L	23:13:16
1	Y 371.029	3306610.8	3306610.8	0.983	mg/L			23:13:30
1	Ag 328.068†	-2012.2	506.5	0.0010	mg/L	0.0010	mg/L	23:13:35
1	Al 237.313†	-16.7	36.1	0.0068	mg/L	0.0068	mg/L	23:13:55
1	As 188.979†	6.7	2.2	0.0059	mg/L	0.0059	mg/L	23:13:55
1	B 182.528†	-0.6	2.1	0.0103	mg/L	0.0103	mg/L	23:13:55
1	Ba 233.527†	-155.7	21.6	-0.0002	mg/L	-0.0002	mg/L	23:13:55
1	Be 313.107†	2320.8	158.8	0.0002	mg/L	0.0002	mg/L	23:13:35
1	Ca 315.886†	6868.9	5168.9	0.0314	mg/L	0.0314	mg/L	23:13:35
1	Cd 228.802†	131.6	18.2	0.0004	mg/L	0.0004	mg/L	23:13:55
1	Co 228.616†	-158.1	16.0	0.0002	mg/L	0.0002	mg/L	23:13:55
1	Cr 267.716†	2084.3	765.0	0.0046	mg/L	0.0046	mg/L	23:13:35
1	Cu 324.752†	3042.1	1171.6	0.0030	mg/L	0.0030	mg/L	23:13:35
1	Fe 234.349†	2409.1	1213.0	0.0193	mg/L	0.0193	mg/L	23:13:35
1	Fe 238.204†	3638.2	2586.2	0.0168	mg/L	0.0168	mg/L	23:13:55
1	Mg 279.077†	563.4	30.5	-0.0101	mg/L	-0.0101	mg/L	23:13:35
1	Mn 257.610†	2689.6	854.4	-0.0016	mg/L	-0.0016	mg/L	23:13:35
1	Mo 202.031†	42.1	5.5	0.0005	mg/L	0.0005	mg/L	23:13:55
1	Ni 231.604†	124.5	97.0	0.0034	mg/L	0.0034	mg/L	23:13:55
1	P 214.914†	1364.7	1344.7	0.9837	mg/L	0.9837	mg/L	23:13:55
1	Pb 220.353†	-155.5	-6.7	-0.0025	mg/L	-0.0025	mg/L	23:13:55
1	Sb 206.836†	5.5	-9.6	-0.0040	mg/L	-0.0040	mg/L	23:13:55
1	Se 196.026†	-7.8	-3.9	0.0055	mg/L	0.0055	mg/L	23:13:55
1	Sn 189.927†	138.4	-49.0	-0.0199	mg/L	-0.0199	mg/L	23:13:55
1	Sr 407.771†	6712.3	524.5	-0.0002	mg/L	-0.0002	mg/L	23:13:30
1	Ti 337.279†	-1888.0	53.4	0.0008	mg/L	0.0008	mg/L	23:13:35
1	Tl 190.801†	1.1	-18.4	0.0061	mg/L	0.0061	mg/L	23:13:55



1	V 292.402†	-1463.8	137.6	0.0013 mg/L	0.0013 mg/L	23:13:35
1	Zn 213.857†	826.0	166.4	0.0026 mg/L	0.0026 mg/L	23:13:55
2	K 766.490†	648.4	94.9	0.0560 mg/L	0.0560 mg/L	23:13:22
2	Li 670.784†	127.2	-41.3	-0.0035 mg/L	-0.0035 mg/L	23:13:22
2	Na 589.592	12259.3	13072.5	1.487 mg/L	1.487 mg/L	23:13:22
2	Y 371.029	3323513.2	3323513.2	0.988 mg/L		23:14:01
2	Ag 328.068†	-1989.4	540.0	0.0011 mg/L	0.0011 mg/L	23:14:06
2	Al 237.313†	-41.3	11.2	0.0040 mg/L	0.0040 mg/L	23:14:27
2	As 188.979†	5.6	0.9	0.0042 mg/L	0.0042 mg/L	23:14:27
2	B 182.528†	-0.4	2.3	0.0108 mg/L	0.0108 mg/L	23:14:27
2	Ba 233.527†	-148.4	29.8	-0.0001 mg/L	-0.0001 mg/L	23:14:27
2	Be 313.107†	2328.0	154.0	0.0002 mg/L	0.0002 mg/L	23:14:06
2	Ca 315.886†	6972.0	5237.7	0.0318 mg/L	0.0318 mg/L	23:14:06
2	Cd 228.802†	118.8	4.6	0.0001 mg/L	0.0001 mg/L	23:14:27
2	Co 228.616†	-172.5	2.2	-0.0002 mg/L	-0.0002 mg/L	23:14:27
2	Cr 267.716†	2080.9	750.8	0.0045 mg/L	0.0045 mg/L	23:14:06
2	Cu 324.752†	3084.5	1198.8	0.0031 mg/L	0.0031 mg/L	23:14:06
2	Fe 234.349†	2468.8	1261.0	0.0202 mg/L	0.0202 mg/L	23:14:06
2	Fe 238.204†	3517.7	2445.3	0.0156 mg/L	0.0156 mg/L	23:14:27
2	Mg 279.077†	668.6	134.0	-0.0060 mg/L	-0.0060 mg/L	23:14:06
2	Mn 257.610†	2588.6	738.2	-0.0017 mg/L	-0.0017 mg/L	23:14:06
2	Mo 202.031†	39.7	2.9	0.0004 mg/L	0.0004 mg/L	23:14:27
2	Ni 231.604†	121.3	93.2	0.0033 mg/L	0.0033 mg/L	23:14:27
2	P 214.914†	1356.6	1329.4	0.9728 mg/L	0.9728 mg/L	23:14:27
2	Pb 220.353†	-150.2	-0.5	-0.0018 mg/L	-0.0018 mg/L	23:14:27
2	Sb 206.836†	5.9	-9.2	-0.0038 mg/L	-0.0038 mg/L	23:14:27
2	Se 196.026†	-4.1	-0.1	0.0102 mg/L	0.0102 mg/L	23:14:27
2	Sn 189.927†	126.7	-61.5	-0.0232 mg/L	-0.0232 mg/L	23:14:27
2	Sr 407.771†	6720.3	497.9	-0.0002 mg/L	-0.0002 mg/L	23:14:01
2	Ti 337.279†	-1908.4	42.5	0.0007 mg/L	0.0007 mg/L	23:14:06
2	Tl 190.801†	5.1	-14.4	0.0095 mg/L	0.0095 mg/L	23:14:27
2	V 292.402†	-1687.2	-81.0	0.0004 mg/L	0.0004 mg/L	23:14:06
2	Zn 213.857†	846.9	183.4	0.0029 mg/L	0.0029 mg/L	23:14:27

Mean Data: BF62320-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3315062.0	0.985 mg/L		0.0036			0.36%
Ag 328.068†	523.3	0.0010 mg/L		0.00008	0.0010 mg/L	0.00008	8.05%
Al 237.313†	23.7	0.0054 mg/L		0.00199	0.0054 mg/L	0.00199	36.76%
As 188.979†	1.6	0.0051 mg/L		0.00116	0.0051 mg/L	0.00116	22.95%
B 182.528†	2.2	0.0105 mg/L		0.00032	0.0105 mg/L	0.00032	3.02%
Ba 233.527†	25.7	-0.0002 mg/L		0.00005	-0.0002 mg/L	0.00005	30.26%
Be 313.107†	156.4	0.0002 mg/L		0.00000	0.0002 mg/L	0.00000	0.43%
Ca 315.886†	5203.3	0.0316 mg/L		0.00033	0.0316 mg/L	0.00033	1.04%
Cd 228.802†	11.4	0.0002 mg/L		0.00023	0.0002 mg/L	0.00023	105.47%
Co 228.616†	9.1	0.0000 mg/L		0.00026	0.0000 mg/L	0.00026	>999.9%
Cr 267.716†	757.9	0.0046 mg/L		0.00007	0.0046 mg/L	0.00007	1.42%
Cu 324.752†	1185.2	0.0031 mg/L		0.00007	0.0031 mg/L	0.00007	2.39%
Fe 234.349†	1237.0	0.0198 mg/L		0.00065	0.0198 mg/L	0.00065	3.29%
Fe 238.204†	2515.7	0.0162 mg/L		0.00085	0.0162 mg/L	0.00085	5.27%
K 766.490†	71.2	0.0430 mg/L		0.01835	0.0430 mg/L	0.01835	42.68%
Li 670.784†	-53.7	-0.0039 mg/L		0.00050	-0.0039 mg/L	0.00050	13.07%
Mg 279.077†	82.3	-0.0081 mg/L		0.00294	-0.0081 mg/L	0.00294	36.44%
Mn 257.610†	796.3	-0.0016 mg/L		0.00009	-0.0016 mg/L	0.00009	5.50%
Mo 202.031†	4.2	0.0004 mg/L		0.00012	0.0004 mg/L	0.00012	27.41%
Na 589.592	13066.9	1.486 mg/L		0.0010	1.486 mg/L	0.0010	0.06%
Ni 231.604†	95.1	0.0033 mg/L		0.00009	0.0033 mg/L	0.00009	2.59%
P 214.914†	1337.1	0.9783 mg/L		0.00771	0.9783 mg/L	0.00771	0.79%
Pb 220.353†	-3.6	-0.0021 mg/L		0.00049	-0.0021 mg/L	0.00049	23.20%
Sb 206.836†	-9.4	-0.0039 mg/L		0.00010	-0.0039 mg/L	0.00010	2.61%
Se 196.026†	-2.0	0.0079 mg/L		0.00333	0.0079 mg/L	0.00333	42.22%
Sn 189.927†	-55.3	-0.0216 mg/L		0.00236	-0.0216 mg/L	0.00236	10.94%
Sr 407.771†	511.2	-0.0002 mg/L		0.00000	-0.0002 mg/L	0.00000	0.40%
Ti 337.279†	47.9	0.0008 mg/L		0.00001	0.0008 mg/L	0.00001	1.30%
Tl 190.801†	-16.4	0.0078 mg/L		0.00234	0.0078 mg/L	0.00234	30.09%
V 292.402†	28.3	0.0008 mg/L		0.00062	0.0008 mg/L	0.00062	73.10%
Zn 213.857†	174.9	0.0028 mg/L		0.00015	0.0028 mg/L	0.00015	5.59%

Sequence No.: 54

Autosampler Location: 42

Sample ID: BF62320-BS1

Analyst:

Initial Sample Wt:

Dilution:

Date Collected: 6/23/2006 11:16:03 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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Replicate Data: BF62320-BS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	44094.3	45592.0	25.00 mg/L	25.00 mg/L	23:17:38
1	Li 670.784†	16775.4	17388.8	0.4972 mg/L	0.4972 mg/L	23:17:38
1	Na 589.592	195061.8	195875.0	23.70 mg/L	23.70 mg/L	23:17:38
1	Y 371.029	3214111.1	3214111.1	0.955 mg/L		23:17:53
1	Ag 328.068†	64302.1	69858.7	0.2429 mg/L	0.2429 mg/L	23:17:58
1	Al 237.313†	20420.3	21427.0	2.416 mg/L	2.416 mg/L	23:17:58
1	As 188.979†	347.9	359.5	0.4940 mg/L	0.4940 mg/L	23:18:18
1	B 182.528†	197.9	209.8	0.4771 mg/L	0.4771 mg/L	23:18:18
1	Ba 233.527†	55987.4	58781.9	0.4897 mg/L	0.4897 mg/L	23:17:58
1	Be 313.107†	221554.5	229698.3	0.0473 mg/L	0.0473 mg/L	23:17:53
1	Ca 315.886†	690499.3	720925.0	4.945 mg/L	4.945 mg/L	23:17:53
1	Cd 228.802†	9399.4	9722.6	0.2396 mg/L	0.2396 mg/L	23:18:18
1	Co 228.616†	17485.6	18479.0	0.4826 mg/L	0.4826 mg/L	23:17:58
1	Cr 267.716†	75305.1	77466.2	0.5021 mg/L	0.5021 mg/L	23:17:58
1	Cu 324.752†	129851.7	133992.2	0.5079 mg/L	0.5079 mg/L	23:17:58
1	Fe 234.349†	127180.1	131881.2	2.512 mg/L	2.512 mg/L	23:17:58
1	Fe 238.204†	282408.3	294481.0	2.514 mg/L	2.514 mg/L	23:17:58
1	Mg 279.077†	115224.6	120062.7	4.814 mg/L	4.814 mg/L	23:17:58
1	Mn 257.610†	431257.9	449515.0	0.4921 mg/L	0.4921 mg/L	23:17:53
1	Mo 202.031†	7174.3	7472.1	0.4919 mg/L	0.4919 mg/L	23:18:18
1	Ni 231.604†	15313.4	15998.9	0.5127 mg/L	0.5127 mg/L	23:17:58
1	P 214.914†	6173.6	6418.1	4.599 mg/L	4.599 mg/L	23:18:18
1	Pb 220.353†	3886.5	4219.6	0.4762 mg/L	0.4762 mg/L	23:18:18
1	Sb 206.836†	916.8	944.4	0.4444 mg/L	0.4444 mg/L	23:18:18
1	Se 196.026†	694.9	731.4	0.9271 mg/L	0.9271 mg/L	23:18:18
1	Sn 189.927†	1956.6	1858.2	0.4860 mg/L	0.4860 mg/L	23:18:18
1	Sr 407.771†	1058385.4	1101506.0	0.0496 mg/L	0.0496 mg/L	23:17:53
1	Ti 337.279†	301508.5	317562.8	0.4013 mg/L	0.4013 mg/L	23:17:58
1	Tl 190.801†	572.0	579.2	0.4986 mg/L	0.4986 mg/L	23:18:18
1	V 292.402†	118156.1	125300.7	0.5057 mg/L	0.5057 mg/L	23:17:58
1	Zn 213.857†	36389.4	37414.8	0.4820 mg/L	0.4820 mg/L	23:17:58
2	K 766.490†	43416.8	44795.1	24.56 mg/L	24.56 mg/L	23:17:43
2	Li 670.784†	16595.8	17167.2	0.4909 mg/L	0.4909 mg/L	23:17:43
2	Na 589.592	193135.2	193948.4	23.46 mg/L	23.46 mg/L	23:17:43
2	Y 371.029	3220328.0	3220328.0	0.957 mg/L		23:18:25
2	Ag 328.068†	64491.7	69926.8	0.2431 mg/L	0.2431 mg/L	23:18:31
2	Al 237.313†	20461.4	21428.6	2.416 mg/L	2.416 mg/L	23:18:31
2	As 188.979†	342.8	353.4	0.4857 mg/L	0.4857 mg/L	23:18:51
2	B 182.528†	199.2	210.8	0.4793 mg/L	0.4793 mg/L	23:18:51
2	Ba 233.527†	55884.5	58561.3	0.4879 mg/L	0.4879 mg/L	23:18:31
2	Be 313.107†	222112.6	229833.7	0.0474 mg/L	0.0474 mg/L	23:18:25
2	Ca 315.886†	692799.1	721932.3	4.951 mg/L	4.951 mg/L	23:18:25
2	Cd 228.802†	9410.2	9715.0	0.2394 mg/L	0.2394 mg/L	23:18:51
2	Co 228.616†	17480.4	18438.3	0.4816 mg/L	0.4816 mg/L	23:18:31
2	Cr 267.716†	75404.7	77418.1	0.5018 mg/L	0.5018 mg/L	23:18:31
2	Cu 324.752†	130865.1	134788.5	0.5109 mg/L	0.5109 mg/L	23:18:31
2	Fe 234.349†	126749.4	131174.2	2.498 mg/L	2.498 mg/L	23:18:31
2	Fe 238.204†	282261.5	293757.0	2.508 mg/L	2.508 mg/L	23:18:31
2	Mg 279.077†	115209.8	119814.4	4.804 mg/L	4.804 mg/L	23:18:31
2	Mn 257.610†	432809.0	450264.0	0.4929 mg/L	0.4929 mg/L	23:18:25
2	Mo 202.031†	7161.8	7444.5	0.4901 mg/L	0.4901 mg/L	23:18:51
2	Ni 231.604†	15267.0	15919.5	0.5102 mg/L	0.5102 mg/L	23:18:31
2	P 214.914†	6150.5	6381.6	4.573 mg/L	4.573 mg/L	23:18:51
2	Pb 220.353†	3862.7	4186.8	0.4725 mg/L	0.4725 mg/L	23:18:51
2	Sb 206.836†	919.8	945.7	0.4450 mg/L	0.4450 mg/L	23:18:51
2	Se 196.026†	700.3	735.7	0.9325 mg/L	0.9325 mg/L	23:18:51
2	Sn 189.927†	1954.2	1851.7	0.4842 mg/L	0.4842 mg/L	23:18:51
2	Sr 407.771†	1062783.9	1103962.4	0.0497 mg/L	0.0497 mg/L	23:18:25
2	Ti 337.279†	301679.0	317131.6	0.4007 mg/L	0.4007 mg/L	23:18:31
2	Tl 190.801†	583.8	590.4	0.5078 mg/L	0.5078 mg/L	23:18:51
2	V 292.402†	118403.8	125320.7	0.5057 mg/L	0.5057 mg/L	23:18:31
2	Zn 213.857†	36180.8	37123.4	0.4783 mg/L	0.4783 mg/L	23:18:31

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 Mean Data: BF62320-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3217219.6	0.956 mg/L		0.0013			0.14%
Ag 328.068†	69892.8	0.2430 mg/L		0.00017	0.2430 mg/L	0.00017	0.07%
Al 237.313†	21427.8	2.416 mg/L		0.0002	2.416 mg/L	0.0002	0.01%
As 188.979†	356.4	0.4899 mg/L		0.00593	0.4899 mg/L	0.00593	1.21%
B 182.528†	210.3	0.4782 mg/L		0.00156	0.4782 mg/L	0.00156	0.33%
Ba 233.527†	58671.6	0.4888 mg/L		0.00130	0.4888 mg/L	0.00130	0.27%
Be 313.107†	229766.0	0.0473 mg/L		0.00002	0.0473 mg/L	0.00002	0.04%
Ca 315.886†	721428.7	4.948 mg/L		0.0049	4.948 mg/L	0.0049	0.10%
Cd 228.802†	9718.8	0.2395 mg/L		0.00010	0.2395 mg/L	0.00010	0.04%
Co 228.616†	18458.6	0.4821 mg/L		0.00075	0.4821 mg/L	0.00075	0.16%
Cr 267.716†	77442.1	0.5020 mg/L		0.00022	0.5020 mg/L	0.00022	0.04%
Cu 324.752†	134390.3	0.5094 mg/L		0.00214	0.5094 mg/L	0.00214	0.42%
Fe 234.349†	131527.7	2.505 mg/L		0.0095	2.505 mg/L	0.0095	0.38%
Fe 238.204†	294119.0	2.511 mg/L		0.0044	2.511 mg/L	0.0044	0.17%
K 766.490†	45193.6	24.78 mg/L		0.309	24.78 mg/L	0.309	1.25%
Li 670.784†	17278.0	0.4941 mg/L		0.00450	0.4941 mg/L	0.00450	0.91%
Mg 279.077†	119938.6	4.809 mg/L		0.0070	4.809 mg/L	0.0070	0.15%
Mn 257.610†	449889.5	0.4925 mg/L		0.00058	0.4925 mg/L	0.00058	0.12%
Mo 202.031†	7458.3	0.4910 mg/L		0.00128	0.4910 mg/L	0.00128	0.26%
Na 589.592	194911.7	23.58 mg/L		0.166	23.58 mg/L	0.166	0.70%
Ni 231.604†	15959.2	0.5115 mg/L		0.00180	0.5115 mg/L	0.00180	0.35%
P 214.914†	6399.8	4.586 mg/L		0.0184	4.586 mg/L	0.0184	0.40%
Pb 220.353†	4203.2	0.4743 mg/L		0.00262	0.4743 mg/L	0.00262	0.55%
Sb 206.836†	945.0	0.4447 mg/L		0.00045	0.4447 mg/L	0.00045	0.10%
Se 196.026†	733.6	0.9298 mg/L		0.00377	0.9298 mg/L	0.00377	0.41%
Sn 189.927†	1854.9	0.4851 mg/L		0.00122	0.4851 mg/L	0.00122	0.25%
Sr 407.771†	1102734.2	0.0496 mg/L		0.00008	0.0496 mg/L	0.00008	0.16%
Ti 337.279†	317347.2	0.4010 mg/L		0.00038	0.4010 mg/L	0.00038	0.10%
Tl 190.801†	584.8	0.5032 mg/L		0.00649	0.5032 mg/L	0.00649	1.29%
V 292.402†	125310.7	0.5057 mg/L		0.00004	0.5057 mg/L	0.00004	0.01%
Zn 213.857†	37269.1	0.4801 mg/L		0.00265	0.4801 mg/L	0.00265	0.55%

Sequence No.: 55

Sample ID: BF62320-BSD1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 43

Date Collected: 6/23/2006 11:20:28 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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 Replicate Data: BF62320-BSD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	42665.1	44079.7	24.17 mg/L	24.17 mg/L	23:22:04
1	Li 670.784†	16405.2	16995.0	0.4859 mg/L	0.4859 mg/L	23:22:04
1	Na 589.592	191251.8	192065.0	23.23 mg/L	23.23 mg/L	23:22:04
1	Y 371.029	3215289.0	3215289.0	0.956 mg/L		23:22:18
1	Ag 328.068†	63330.4	68817.4	0.2392 mg/L	0.2392 mg/L	23:22:24
1	Al 237.313†	20070.9	21053.6	2.374 mg/L	2.374 mg/L	23:22:24
1	As 188.979†	335.0	345.9	0.4754 mg/L	0.4754 mg/L	23:22:44
1	B 182.528†	198.0	209.9	0.4772 mg/L	0.4772 mg/L	23:22:44
1	Ba 233.527†	54929.0	57653.0	0.4803 mg/L	0.4803 mg/L	23:22:24
1	Be 313.107†	221645.7	229708.9	0.0473 mg/L	0.0473 mg/L	23:22:24
1	Ca 315.886†	687989.7	718034.5	4.925 mg/L	4.925 mg/L	23:22:18
1	Cd 228.802†	9334.9	9651.5	0.2379 mg/L	0.2379 mg/L	23:22:44
1	Co 228.616†	17218.5	18192.8	0.4751 mg/L	0.4751 mg/L	23:22:24
1	Cr 267.716†	73859.8	75925.0	0.4921 mg/L	0.4921 mg/L	23:22:24
1	Cu 324.752†	127288.6	131260.6	0.4975 mg/L	0.4975 mg/L	23:22:24
1	Fe 234.349†	124584.6	129116.7	2.459 mg/L	2.459 mg/L	23:22:24
1	Fe 238.204†	277163.3	288884.8	2.467 mg/L	2.467 mg/L	23:22:24
1	Mg 279.077†	113413.0	118123.0	4.736 mg/L	4.736 mg/L	23:22:24
1	Mn 257.610†	429985.6	448018.4	0.4904 mg/L	0.4904 mg/L	23:22:18
1	Mo 202.031†	7163.0	7457.4	0.4909 mg/L	0.4909 mg/L	23:22:44
1	Ni 231.604†	14776.7	15431.5	0.4946 mg/L	0.4946 mg/L	23:22:24
1	P 214.914†	6127.8	6367.9	4.564 mg/L	4.564 mg/L	23:22:44
1	Pb 220.353†	3879.2	4210.4	0.4751 mg/L	0.4751 mg/L	23:22:44
1	Sb 206.836†	920.0	947.4	0.4460 mg/L	0.4460 mg/L	23:22:44
1	Se 196.026†	684.9	720.6	0.9136 mg/L	0.9136 mg/L	23:22:44

1	Sn 189.927†	1952.4	1853.1	0.4846 mg/L	0.4846 mg/L	23:22:44
1	Sr 407.771†	1051769.2	1094177.5	0.0492 mg/L	0.0492 mg/L	23:22:18
1	Ti 337.279†	295553.5	311216.4	0.3933 mg/L	0.3933 mg/L	23:22:24
1	Tl 190.801†	581.9	589.3	0.5070 mg/L	0.5070 mg/L	23:22:44
1	V 292.402†	115648.7	122631.8	0.4951 mg/L	0.4951 mg/L	23:22:24
1	Zn 213.857†	35510.8	36481.6	0.4700 mg/L	0.4700 mg/L	23:22:24
2	K 766.490†	42384.4	43132.5	23.65 mg/L	23.65 mg/L	23:22:09
2	Li 670.784†	16314.3	16648.3	0.4760 mg/L	0.4760 mg/L	23:22:09
2	Na 589.592	192371.3	193184.5	23.37 mg/L	23.37 mg/L	23:22:09
2	Y 371.029	3263381.3	3263381.3	0.970 mg/L	0.970 mg/L	23:22:50
2	Ag 328.068†	64387.5	68930.7	0.2396 mg/L	0.2396 mg/L	23:22:56
2	Al 237.313†	20348.7	21030.5	2.371 mg/L	2.371 mg/L	23:22:56
2	As 188.979†	329.4	334.8	0.4603 mg/L	0.4603 mg/L	23:23:16
2	B 182.528†	192.5	201.1	0.4576 mg/L	0.4576 mg/L	23:23:16
2	Ba 233.527†	55891.1	57797.8	0.4815 mg/L	0.4815 mg/L	23:22:56
2	Be 313.107†	225416.6	230178.6	0.0474 mg/L	0.0474 mg/L	23:22:56
2	Ca 315.886†	701633.4	721491.2	4.948 mg/L	4.948 mg/L	23:22:50
2	Cd 228.802†	9301.0	9472.7	0.2336 mg/L	0.2336 mg/L	23:23:16
2	Co 228.616†	17437.5	18153.1	0.4741 mg/L	0.4741 mg/L	23:22:56
2	Cr 267.716†	75292.8	76263.5	0.4943 mg/L	0.4943 mg/L	23:22:56
2	Cu 324.752†	129432.4	131507.9	0.4985 mg/L	0.4985 mg/L	23:22:56
2	Fe 234.349†	126489.0	129159.0	2.460 mg/L	2.460 mg/L	23:22:56
2	Fe 238.204†	281657.3	289243.9	2.470 mg/L	2.470 mg/L	23:22:56
2	Mg 279.077†	115602.6	118631.6	4.756 mg/L	4.756 mg/L	23:22:56
2	Mn 257.610†	437942.3	449590.8	0.4922 mg/L	0.4922 mg/L	23:22:50
2	Mo 202.031†	7166.8	7350.9	0.4839 mg/L	0.4839 mg/L	23:23:16
2	Ni 231.604†	14986.5	15419.9	0.4942 mg/L	0.4942 mg/L	23:22:56
2	P 214.914†	6091.8	6236.3	4.470 mg/L	4.470 mg/L	23:23:16
2	Pb 220.353†	3870.4	4141.5	0.4673 mg/L	0.4673 mg/L	23:23:16
2	Sb 206.836†	923.6	936.9	0.4409 mg/L	0.4409 mg/L	23:23:16
2	Se 196.026†	684.5	709.7	0.8999 mg/L	0.8999 mg/L	23:23:16
2	Sn 189.927†	1948.1	1818.5	0.4754 mg/L	0.4754 mg/L	23:23:16
2	Sr 407.771†	1068072.6	1094766.9	0.0493 mg/L	0.0493 mg/L	23:22:50
2	Ti 337.279†	300484.6	311742.6	0.3939 mg/L	0.3939 mg/L	23:22:56
2	Tl 190.801†	575.2	573.4	0.4940 mg/L	0.4940 mg/L	23:23:16
2	V 292.402†	117689.7	122952.7	0.4962 mg/L	0.4962 mg/L	23:22:56
2	Zn 213.857†	36017.0	36455.8	0.4697 mg/L	0.4697 mg/L	23:22:56

## Mean Data: BF62320-BSD1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3239335.1	0.963	mg/L	0.0101				1.05%
Ag 328.068†	68874.0	0.2394	mg/L	0.00028	0.2394	mg/L	0.00028	0.12%
Al 237.313†	21042.0	2.373	mg/L	0.0019	2.373	mg/L	0.0019	0.08%
As 188.979†	340.3	0.4679	mg/L	0.01068	0.4679	mg/L	0.01068	2.28%
B 182.528†	205.5	0.4674	mg/L	0.01389	0.4674	mg/L	0.01389	2.97%
Ba 233.527†	57725.4	0.4809	mg/L	0.00085	0.4809	mg/L	0.00085	0.18%
Be 313.107†	229943.7	0.0474	mg/L	0.00007	0.0474	mg/L	0.00007	0.14%
Ca 315.886†	719762.9	4.936	mg/L	0.0168	4.936	mg/L	0.0168	0.34%
Cd 228.802†	9562.1	0.2357	mg/L	0.00306	0.2357	mg/L	0.00306	1.30%
Co 228.616†	18173.0	0.4746	mg/L	0.00074	0.4746	mg/L	0.00074	0.16%
Cr 267.716†	76094.2	0.4932	mg/L	0.00155	0.4932	mg/L	0.00155	0.31%
Cu 324.752†	131384.2	0.4980	mg/L	0.00067	0.4980	mg/L	0.00067	0.13%
Fe 234.349†	129137.8	2.459	mg/L	0.0006	2.459	mg/L	0.0006	0.02%
Fe 238.204†	289064.4	2.468	mg/L	0.0022	2.468	mg/L	0.0022	0.09%
K 766.490†	43606.1	23.91	mg/L	0.367	23.91	mg/L	0.367	1.54%
Li 670.784†	16821.7	0.4810	mg/L	0.00704	0.4810	mg/L	0.00704	1.46%
Mg 279.077†	118377.3	4.746	mg/L	0.0145	4.746	mg/L	0.0145	0.30%
Mn 257.610†	448804.6	0.4913	mg/L	0.00122	0.4913	mg/L	0.00122	0.25%
Mo 202.031†	7404.2	0.4874	mg/L	0.00496	0.4874	mg/L	0.00496	1.02%
Na 589.592	192624.7	23.30	mg/L	0.096	23.30	mg/L	0.096	0.41%
Ni 231.604†	15425.7	0.4944	mg/L	0.00027	0.4944	mg/L	0.00027	0.05%
P 214.914†	6302.1	4.517	mg/L	0.0663	4.517	mg/L	0.0663	1.47%
Pb 220.353†	4175.9	0.4712	mg/L	0.00551	0.4712	mg/L	0.00551	1.17%
Sb 206.836†	942.2	0.4435	mg/L	0.00357	0.4435	mg/L	0.00357	0.81%
Se 196.026†	715.1	0.9067	mg/L	0.00972	0.9067	mg/L	0.00972	1.07%
Sn 189.927†	1835.8	0.4800	mg/L	0.00647	0.4800	mg/L	0.00647	1.35%
Sr 407.771†	1094472.2	0.0492	mg/L	0.00002	0.0492	mg/L	0.00002	0.04%
Ti 337.279†	311479.5	0.3936	mg/L	0.00047	0.3936	mg/L	0.00047	0.12%
Tl 190.801†	581.4	0.5005	mg/L	0.00917	0.5005	mg/L	0.00917	1.83%
V 292.402†	122792.3	0.4957	mg/L	0.00082	0.4957	mg/L	0.00082	0.16%

Zn 213.857† 36468.7 0.4699 mg/L 0.00023 0.4699 mg/L 0.00023 0.05%

Duplicate Check: BF62320-BSD1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	24.78	23.91	0.367	mg/L	3.6
Li 670.784	0.4941	0.4810	0.007	mg/L	2.7
Na 589.592	23.58	23.30	0.096	mg/L	1.2
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.2430	0.2394	0.000	mg/L	1.5
Al 237.313	2.416	2.373	0.002	mg/L	1.8
As 188.979	0.4899	0.4679	0.011	mg/L	4.6
B 182.528	0.4782	0.4674	0.014	mg/L	2.3
Ba 233.527	0.4888	0.4809	0.001	mg/L	1.6
Be 313.107	0.0473	0.0474	0.000	mg/L	0.1
Ca 315.886	4.948	4.936	0.017	mg/L	0.2
Cd 228.802	0.2395	0.2357	0.003	mg/L	1.6
Co 228.616	0.4821	0.4746	0.001	mg/L	1.6
Cr 267.716	0.5020	0.4932	0.002	mg/L	1.8
Cu 324.752	0.5094	0.4980	0.001	mg/L	2.3
Fe 234.349	2.505	2.459	0.001	mg/L	1.8
Fe 238.204	2.511	2.468	0.002	mg/L	1.7
Mg 279.077	4.809	4.746	0.014	mg/L	1.3
Mn 257.610	0.4925	0.4913	0.001	mg/L	0.2
Mo 202.031	0.4910	0.4874	0.005	mg/L	0.7
Ni 231.604	0.5115	0.4944	0.000	mg/L	3.4
P 214.914	4.586	4.517	0.066	mg/L	1.5
Pb 220.353	0.4743	0.4712	0.006	mg/L	0.7
Sb 206.836	0.4447	0.4435	0.004	mg/L	0.3
Se 196.026	0.9298	0.9067	0.010	mg/L	2.5
Sn 189.927	0.4851	0.4800	0.006	mg/L	1.1
Sr 407.771	0.0496	0.0492	0.000	mg/L	0.8
Ti 337.279	0.4010	0.3936	0.000	mg/L	1.9
Tl 190.801	0.5032	0.5005	0.009	mg/L	0.5
V 292.402	0.5057	0.4957	0.001	mg/L	2.0
Zn 213.857	0.4801	0.4699	0.000	mg/L	2.2

Sequence No.: 56

Sample ID: BF62320-SRM1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 44

Date Collected: 6/23/2006 11:24:54 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: BF62320-SRM1

Repl#	Analyte	Net		Calib. Conc.	Units	Sample		Analysis Time
		Intensity	Corrected Intensity			Conc.	Units	
1	K 766.490†	36462.1	35314.9	19.37	mg/L	19.37	mg/L	23:26:27
1	Li 670.784†	1924.0	1723.0	0.0472	mg/L	0.0472	mg/L	23:26:27
1	Na 589.592	89868.4	90681.6	10.92	mg/L	10.92	mg/L	23:26:27
1	Y 371.029	3419137.6	3419137.6	1.02	mg/L			23:26:53
1	Ag 328.068†	244202.5	242833.0	0.8483	mg/L	0.8483	mg/L	23:26:59
1	Al 237.313†	406885.8	400401.8	44.90	mg/L	44.90	mg/L	23:26:59
1	As 188.979†	988.3	967.7	1.325	mg/L	1.325	mg/L	23:27:19
1	B 182.528†	401.8	398.0	0.9001	mg/L	0.9001	mg/L	23:27:19
1	Ba 233.527†	380901.0	374961.4	3.126	mg/L	3.126	mg/L	23:26:53
1	Be 313.107†	2726261.3	2680258.9	0.5538	mg/L	0.5538	mg/L	23:26:47
1	Ca 315.886†	5099970.1	5016214.7	34.42	mg/L	34.42	mg/L	23:26:47
1	Cd 228.802†	32799.6	32157.0	0.7890	mg/L	0.7890	mg/L	23:26:59
1	Co 228.616†	19349.7	19215.6	0.4992	mg/L	0.4992	mg/L	23:26:59
1	Cr 267.716†	244883.4	239593.5	1.558	mg/L	1.558	mg/L	23:26:59
1	Cu 324.752†	167322.6	162711.0	0.6327	mg/L	0.6327	mg/L	23:26:59
1	Fe 234.349†	4448606.4	4375897.3	83.64	mg/L	83.64	mg/L	23:26:47
1	Fe 238.204†	9551350.0	9396783.3	80.38	mg/L	80.38	mg/L	23:26:47
1	Mg 279.077†	438092.6	430511.5	17.26	mg/L	17.26	mg/L	23:26:53
1	Mn 257.610†	1644266.3	1615967.6	1.775	mg/L	1.775	mg/L	23:26:53
1	Mo 202.031†	3798.0	3699.7	0.2436	mg/L	0.2436	mg/L	23:27:19
1	Ni 231.604†	24021.8	23606.3	0.7560	mg/L	0.7560	mg/L	23:26:59
1	P 214.914†	12668.4	12421.1	8.877	mg/L	8.877	mg/L	23:27:19
1	Pb 220.353†	5049.5	5119.9	0.5823	mg/L	0.5823	mg/L	23:27:19

1	Sb 206.836†	1572.0	1531.5	0.7082 mg/L	0.7082 mg/L	23:27:19
1	Se 196.026†	515.2	511.0	0.6509 mg/L	0.6509 mg/L	23:27:19
1	Sn 189.927†	3519.1	3272.7	0.8653 mg/L	0.8653 mg/L	23:27:19
1	Sr 407.771†	6393924.5	6284895.2	0.2839 mg/L	0.2839 mg/L	23:26:47
1	Ti 337.279†	1330407.2	1311007.5	1.654 mg/L	1.654 mg/L	23:26:53
1	Tl 190.801†	936.5	902.0	0.7798 mg/L	0.7798 mg/L	23:27:19
1	V 292.402†	315887.2	312439.1	1.232 mg/L	1.232 mg/L	23:26:59
1	Zn 213.857†	271978.3	266934.8	3.445 mg/L	3.445 mg/L	23:26:59
2	K 766.490†	36760.5	35927.2	19.70 mg/L	19.70 mg/L	23:26:33
2	Li 670.784†	1948.3	1763.8	0.0484 mg/L	0.0484 mg/L	23:26:33
2	Na 589.592	90551.7	91364.9	11.00 mg/L	11.00 mg/L	23:26:33
2	Y 371.029	3389277.2	3389277.2	1.01 mg/L		23:27:36
2	Ag 328.068†	243243.7	243998.2	0.8524 mg/L	0.8524 mg/L	23:27:42
2	Al 237.313†	405836.3	402887.3	45.18 mg/L	45.18 mg/L	23:27:42
2	As 188.979†	979.8	967.8	1.325 mg/L	1.325 mg/L	23:28:02
2	B 182.528†	399.4	399.2	0.9027 mg/L	0.9027 mg/L	23:28:02
2	Ba 233.527†	378337.8	375719.1	3.132 mg/L	3.132 mg/L	23:27:36
2	Be 313.107†	2711141.7	2688884.3	0.5556 mg/L	0.5556 mg/L	23:27:30
2	Ca 315.886†	5057392.1	5018161.9	34.43 mg/L	34.43 mg/L	23:27:30
2	Cd 228.802†	32747.9	32390.0	0.7948 mg/L	0.7948 mg/L	23:27:42
2	Co 228.616†	19240.2	19274.7	0.5007 mg/L	0.5007 mg/L	23:27:42
2	Cr 267.716†	245088.1	241919.6	1.574 mg/L	1.574 mg/L	23:27:42
2	Cu 324.752†	167069.1	163909.8	0.6373 mg/L	0.6373 mg/L	23:27:42
2	Fe 234.349†	4431643.6	4397623.7	84.05 mg/L	84.05 mg/L	23:27:30
2	Fe 238.204†	9503441.9	9432027.5	80.68 mg/L	80.68 mg/L	23:27:30
2	Mg 279.077†	435095.6	431334.4	17.29 mg/L	17.29 mg/L	23:27:36
2	Mn 257.610†	1634651.7	1620677.7	1.781 mg/L	1.781 mg/L	23:27:36
2	Mo 202.031†	3742.4	3677.4	0.2422 mg/L	0.2422 mg/L	23:28:02
2	Ni 231.604†	24163.8	23955.4	0.7672 mg/L	0.7672 mg/L	23:27:42
2	P 214.914†	12551.2	12414.6	8.873 mg/L	8.873 mg/L	23:28:02
2	Pb 220.353†	5004.2	5118.7	0.5822 mg/L	0.5822 mg/L	23:28:02
2	Sb 206.836†	1567.5	1540.7	0.7124 mg/L	0.7124 mg/L	23:28:02
2	Se 196.026†	507.0	507.3	0.6462 mg/L	0.6462 mg/L	23:28:02
2	Sn 189.927†	3482.2	3266.6	0.8637 mg/L	0.8637 mg/L	23:28:02
2	Sr 407.771†	6370200.9	6316774.4	0.2854 mg/L	0.2854 mg/L	23:27:30
2	Ti 337.279†	1319023.0	1311240.2	1.655 mg/L	1.655 mg/L	23:27:36
2	Tl 190.801†	929.0	902.7	0.7804 mg/L	0.7804 mg/L	23:28:02
2	V 292.402†	316479.6	315765.4	1.245 mg/L	1.245 mg/L	23:27:42
2	Zn 213.857†	271354.9	268673.7	3.467 mg/L	3.467 mg/L	23:27:42

## Mean Data: BF62320-SRMI

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
Y 371.029	3404207.4	1.01 mg/L		0.006			0.62%
Ag 328.068†	243415.6	0.8504 mg/L		0.00288	0.8504 mg/L	0.00288	0.34%
Al 237.313†	401644.6	45.04 mg/L		0.197	45.04 mg/L	0.197	0.44%
As 188.979†	967.8	1.325 mg/L		0.0001	1.325 mg/L	0.0001	0.01%
B 182.528†	398.6	0.9014 mg/L		0.00183	0.9014 mg/L	0.00183	0.20%
Ba 233.527†	375340.2	3.129 mg/L		0.0045	3.129 mg/L	0.0045	0.14%
Be 313.107†	2684571.6	0.5547 mg/L		0.00127	0.5547 mg/L	0.00127	0.23%
Ca 315.886†	5017188.3	34.42 mg/L		0.010	34.42 mg/L	0.010	0.03%
Cd 228.802†	32273.5	0.7919 mg/L		0.00407	0.7919 mg/L	0.00407	0.51%
Co 228.616†	19245.2	0.5000 mg/L		0.00109	0.5000 mg/L	0.00109	0.22%
Cr 267.716†	240756.5	1.566 mg/L		0.0107	1.566 mg/L	0.0107	0.68%
Cu 324.752†	163310.4	0.6350 mg/L		0.00327	0.6350 mg/L	0.00327	0.52%
Fe 234.349†	4386760.5	83.84 mg/L		0.294	83.84 mg/L	0.294	0.35%
Fe 238.204†	9414405.4	80.53 mg/L		0.213	80.53 mg/L	0.213	0.26%
K 766.490†	35621.1	19.53 mg/L		0.237	19.53 mg/L	0.237	1.22%
Li 670.784†	1743.4	0.0478 mg/L		0.00083	0.0478 mg/L	0.00083	1.73%
Mg 279.077†	430923.0	17.28 mg/L		0.023	17.28 mg/L	0.023	0.13%
Mn 257.610†	1618322.6	1.778 mg/L		0.0037	1.778 mg/L	0.0037	0.21%
Mo 202.031†	3688.5	0.2429 mg/L		0.00104	0.2429 mg/L	0.00104	0.43%
Na 589.592	91023.3	10.96 mg/L		0.059	10.96 mg/L	0.059	0.54%
Ni 231.604†	23780.9	0.7616 mg/L		0.00790	0.7616 mg/L	0.00790	1.04%
P 214.914†	12417.8	8.875 mg/L		0.0033	8.875 mg/L	0.0033	0.04%
Pb 220.353†	5119.3	0.5822 mg/L		0.00007	0.5822 mg/L	0.00007	0.01%
Sb 206.836†	1536.1	0.7103 mg/L		0.00296	0.7103 mg/L	0.00296	0.42%
Se 196.026†	509.1	0.6485 mg/L		0.00330	0.6485 mg/L	0.00330	0.51%
Sn 189.927†	3269.7	0.8645 mg/L		0.00113	0.8645 mg/L	0.00113	0.13%
Sr 407.771†	6300834.9	0.2846 mg/L		0.00102	0.2846 mg/L	0.00102	0.36%
Ti 337.279†	1311123.7	1.655 mg/L		0.0002	1.655 mg/L	0.0002	0.01%

Tl 190.801†	902.3	0.7801 mg/L	0.00042	0.7801 mg/L	0.00042	0.05%
V 292.402†	314102.2	1.239 mg/L	0.0093	1.239 mg/L	0.0093	0.75%
Zn 213.857†	267804.3	3.456 mg/L	0.0158	3.456 mg/L	0.0158	0.46%

Sequence No.: 57

Autosampler Location: 45

Sample ID: 0606374-01

Date Collected: 6/23/2006 11:29:39 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: 0606374-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	6239.4	5766.7	3.166 mg/L	3.166 mg/L	23:31:13
1	Li 670.784†	1550.0	1402.1	0.0380 mg/L	0.0380 mg/L	23:31:13
1	Na 589.592	45641.8	46455.0	5.543 mg/L	5.543 mg/L	23:31:13
1	Y 371.029	3317014.6	3317014.6	0.986 mg/L		23:31:30
1	Ag 328.068†	-1364.9	1169.5	0.0061 mg/L	0.0061 mg/L	23:31:35
1	Al 237.313†	195697.2	198534.4	22.13 mg/L	22.13 mg/L	23:31:35
1	As 188.979†	122.2	119.2	0.1649 mg/L	0.1649 mg/L	23:31:55
1	B 182.528†	2.5	5.3	0.0175 mg/L	0.0175 mg/L	23:31:55
1	Ba 233.527†	19934.4	20397.9	0.1697 mg/L	0.1697 mg/L	23:31:35
1	Be 313.107†	8637.3	6557.7	0.0006 mg/L	0.0006 mg/L	23:31:35
1	Ca 315.886†	512986.0	518464.6	3.553 mg/L	3.553 mg/L	23:31:30
1	Cd 228.802†	251.0	138.9	0.0053 mg/L	0.0053 mg/L	23:31:55
1	Co 228.616†	16852.8	17269.4	0.4493 mg/L	0.4493 mg/L	23:31:35
1	Cr 267.716†	11377.7	10184.0	0.0688 mg/L	0.0688 mg/L	23:31:35
1	Cu 324.752†	19205.3	17555.0	0.0791 mg/L	0.0791 mg/L	23:31:35
1	Fe 234.349†	3688026.3	3739258.0	71.47 mg/L	71.47 mg/L	23:31:30
1	Fe 238.204†	7997103.1	8109763.0	69.37 mg/L	69.37 mg/L	23:31:30
1	Mg 279.077†	161546.8	163302.4	6.537 mg/L	6.537 mg/L	23:31:35
1	Mn 257.610†	1700984.2	1723302.1	1.893 mg/L	1.893 mg/L	23:31:30
1	Mo 202.031†	138.3	102.9	0.0069 mg/L	0.0069 mg/L	23:31:55
1	Ni 231.604†	10343.7	10461.2	0.3353 mg/L	0.3353 mg/L	23:31:35
1	P 214.914†	5415.7	5449.0	3.909 mg/L	3.909 mg/L	23:31:55
1	Pb 220.353†	631.2	791.7	0.0884 mg/L	0.0884 mg/L	23:31:55
1	Sb 206.836†	13.0	-2.1	-0.0027 mg/L	-0.0027 mg/L	23:31:55
1	Se 196.026†	1.8	5.9	0.0178 mg/L	0.0178 mg/L	23:31:55
1	Sn 189.927†	229.0	42.5	0.0084 mg/L	0.0084 mg/L	23:31:55
1	Sr 407.771†	644595.2	647461.2	0.0290 mg/L	0.0290 mg/L	23:31:30
1	Ti 337.279†	945457.5	960882.8	1.213 mg/L	1.213 mg/L	23:31:30
1	Tl 190.801†	-8.0	-27.6	0.0259 mg/L	0.0259 mg/L	23:31:55
1	V 292.402†	14626.0	16461.0	0.0554 mg/L	0.0554 mg/L	23:31:35
1	Zn 213.857†	47986.8	47995.6	0.6133 mg/L	0.6133 mg/L	23:31:35
2	K 766.490†	6121.3	5648.4	3.101 mg/L	3.101 mg/L	23:31:18
2	Li 670.784†	1518.9	1370.9	0.0371 mg/L	0.0371 mg/L	23:31:18
2	Na 589.592	45092.2	45905.4	5.476 mg/L	5.476 mg/L	23:31:18
2	Y 371.029	3316294.2	3316294.2	0.986 mg/L		23:32:04
2	Ag 328.068†	-1603.2	927.5	0.0053 mg/L	0.0053 mg/L	23:32:10
2	Al 237.313†	197418.4	200323.6	22.33 mg/L	22.33 mg/L	23:32:10
2	As 188.979†	130.0	127.2	0.1758 mg/L	0.1758 mg/L	23:32:30
2	B 182.528†	-1.4	1.3	0.0086 mg/L	0.0086 mg/L	23:32:30
2	Ba 233.527†	20100.9	20571.2	0.1711 mg/L	0.1711 mg/L	23:32:10
2	Be 313.107†	8511.5	6432.1	0.0005 mg/L	0.0005 mg/L	23:32:10
2	Ca 315.886†	511084.7	516648.8	3.541 mg/L	3.541 mg/L	23:32:04
2	Cd 228.802†	250.7	138.6	0.0053 mg/L	0.0053 mg/L	23:32:30
2	Co 228.616†	17058.5	17481.8	0.4548 mg/L	0.4548 mg/L	23:32:10
2	Cr 267.716†	11509.8	10320.5	0.0697 mg/L	0.0697 mg/L	23:32:10
2	Cu 324.752†	19281.7	17636.8	0.0794 mg/L	0.0794 mg/L	23:32:10
2	Fe 234.349†	3673586.0	3725421.6	71.21 mg/L	71.21 mg/L	23:32:04
2	Fe 238.204†	7967664.3	8081660.9	69.13 mg/L	69.13 mg/L	23:32:04
2	Mg 279.077†	162849.5	164659.5	6.592 mg/L	6.592 mg/L	23:32:10
2	Mn 257.610†	1696258.7	1718883.1	1.888 mg/L	1.888 mg/L	23:32:04
2	Mo 202.031†	128.4	93.0	0.0063 mg/L	0.0063 mg/L	23:32:30
2	Ni 231.604†	10346.2	10466.1	0.3355 mg/L	0.3355 mg/L	23:32:10
2	P 214.914†	5421.6	5456.2	3.914 mg/L	3.914 mg/L	23:32:30
2	Pb 220.353†	603.1	763.3	0.0852 mg/L	0.0852 mg/L	23:32:30
2	Sb 206.836†	8.8	-6.3	-0.0048 mg/L	-0.0048 mg/L	23:32:30
2	Se 196.026†	-1.0	3.0	0.0141 mg/L	0.0141 mg/L	23:32:30
2	Sn 189.927†	241.0	54.7	0.0117 mg/L	0.0117 mg/L	23:32:30

2	Mn 257.610†	428164.8	443423.7	0.4854 mg/L	0.4854 mg/L	23:51:18
2	Mo 202.031†	7089.2	7335.7	0.4829 mg/L	0.4829 mg/L	23:51:44
2	Ni 231.604†	15162.0	15739.4	0.5044 mg/L	0.5044 mg/L	23:51:24
2	P 214.914†	6446.8	6661.1	4.773 mg/L	4.773 mg/L	23:51:44
2	Pb 220.353†	3930.0	4238.8	0.4783 mg/L	0.4783 mg/L	23:51:44
2	Sb 206.836†	964.6	988.0	0.4655 mg/L	0.4655 mg/L	23:51:44
2	Se 196.026†	738.5	772.1	0.9782 mg/L	0.9782 mg/L	23:51:44
2	Sn 189.927†	1843.8	1727.8	0.4515 mg/L	0.4515 mg/L	23:51:44
2	Sr 407.771†	1053375.7	1089241.4	0.0490 mg/L	0.0490 mg/L	23:51:18
2	Ti 337.279†	370560.6	387369.7	0.4893 mg/L	0.4893 mg/L	23:51:24
2	Tl 190.801†	604.3	609.0	0.5228 mg/L	0.5228 mg/L	23:51:44
2	V 292.402†	117330.5	123654.5	0.4989 mg/L	0.4989 mg/L	23:51:24
2	Zn 213.857†	37059.9	37869.6	0.4880 mg/L	0.4880 mg/L	23:51:24

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3239017.6	0.963 mg/L	0.0018			
Ag 328.068†	70427.1	0.2448 mg/L	0.00009	0.2448 mg/L	0.00009	0.19%
QC value within limits for Ag	328.068	Recovery = 97.93%				0.04%
Al 237.313†	21594.5	2.435 mg/L	0.0079	2.435 mg/L	0.0079	0.32%
QC value within limits for Al	237.313	Recovery = 97.41%				
As 188.979†	370.4	0.5089 mg/L	0.00236	0.5089 mg/L	0.00236	0.46%
QC value within limits for As	188.979	Recovery = 101.79%				
B 182.528†	225.0	0.5112 mg/L	0.00882	0.5112 mg/L	0.00882	1.73%
QC value within limits for B	182.528	Recovery = 102.24%				
Ba 233.527†	58710.4	0.4891 mg/L	0.00125	0.4891 mg/L	0.00125	0.26%
QC value within limits for Ba	233.527	Recovery = 97.83%				
Be 313.107†	230796.3	0.0475 mg/L	0.00002	0.0475 mg/L	0.00002	0.04%
QC value within limits for Be	313.107	Recovery = 94.91%				
Ca 315.886†	704340.4	4.831 mg/L	0.00009	4.831 mg/L	0.00009	0.02%
QC value within limits for Ca	315.886	Recovery = 96.61%				
Cd 228.802†	9833.7	0.2422 mg/L	0.00009	0.2422 mg/L	0.00009	0.04%
QC value within limits for Cd	228.802	Recovery = 96.90%				
Co 228.616†	18495.9	0.4829 mg/L	0.00015	0.4829 mg/L	0.00015	0.03%
QC value within limits for Co	228.616	Recovery = 96.57%				
Cr 267.716†	75627.4	0.4902 mg/L	0.00018	0.4902 mg/L	0.00018	0.04%
QC value within limits for Cr	267.716	Recovery = 98.04%				
Cu 324.752†	129955.2	0.4927 mg/L	0.00201	0.4927 mg/L	0.00201	0.41%
QC value within limits for Cu	324.752	Recovery = 98.53%				
Fe 234.349†	128657.1	2.450 mg/L	0.0024	2.450 mg/L	0.0024	0.10%
QC value within limits for Fe	234.349	Recovery = 98.00%				
Fe 238.204†	287419.3	2.454 mg/L	0.0066	2.454 mg/L	0.0066	0.27%
QC value within limits for Fe	238.204	Recovery = 98.16%				
K 766.490†	45339.6	24.86 mg/L	0.178	24.86 mg/L	0.178	0.72%
QC value within limits for K	766.490	Recovery = 99.45%				
Li 670.784†	17389.0	0.4973 mg/L	0.00223	0.4973 mg/L	0.00223	0.45%
QC value within limits for Li	670.784	Recovery = 99.45%				
Mg 279.077†	121968.2	4.890 mg/L	0.0030	4.890 mg/L	0.0030	0.06%
QC value within limits for Mg	279.077	Recovery = 97.80%				
Mn 257.610†	443513.4	0.4855 mg/L	0.00014	0.4855 mg/L	0.00014	0.03%
QC value within limits for Mn	257.610	Recovery = 97.10%				
Mo 202.031†	7317.4	0.4817 mg/L	0.00171	0.4817 mg/L	0.00171	0.35%
QC value within limits for Mo	202.031	Recovery = 96.34%				
Na 589.592	196222.8	23.74 mg/L	0.031	23.74 mg/L	0.031	0.13%
QC value within limits for Na	589.592	Recovery = 94.95%				
Ni 231.604†	15711.0	0.5035 mg/L	0.00129	0.5035 mg/L	0.00129	0.26%
QC value within limits for Ni	231.604	Recovery = 100.70%				
P 214.914†	6657.3	4.770 mg/L	0.0039	4.770 mg/L	0.0039	0.08%
QC value within limits for P	214.914	Recovery = 95.40%				
Pb 220.353†	4236.0	0.4780 mg/L	0.00045	0.4780 mg/L	0.00045	0.09%
QC value within limits for Pb	220.353	Recovery = 95.60%				
Sb 206.836†	992.3	0.4676 mg/L	0.00297	0.4676 mg/L	0.00297	0.64%
QC value within limits for Sb	206.836	Recovery = 93.52%				
Se 196.026†	769.2	0.9745 mg/L	0.00523	0.9745 mg/L	0.00523	0.54%
QC value within limits for Se	196.026	Recovery = 97.45%				
Sn 189.927†	1728.5	0.4517 mg/L	0.00027	0.4517 mg/L	0.00027	0.06%
QC value within limits for Sn	189.927	Recovery = 90.34%				
Sr 407.771†	1088596.0	0.0490 mg/L	0.00004	0.0490 mg/L	0.00004	0.08%
QC value within limits for Sr	407.771	Recovery = 97.96%				
Ti 337.279†	387181.9	0.4891 mg/L	0.00034	0.4891 mg/L	0.00034	0.07%



QC value within limits for Ti 337.279 Recovery = 97.82%  
 Tl 190.801† 603.5 0.5183 mg/L 0.00639 0.5183 mg/L 0.00639 1.23%  
 QC value within limits for Tl 190.801 Recovery = 103.66%  
 V 292.402† 123495.8 0.4982 mg/L 0.00092 0.4982 mg/L 0.00092 0.18%  
 QC value within limits for V 292.402 Recovery = 99.65%  
 Zn 213.857† 37831.7 0.4875 mg/L 0.00069 0.4875 mg/L 0.00069 0.14%  
 QC value within limits for Zn 213.857 Recovery = 97.50%  
 All analyte(s) passed QC.

Sequence No.: 62 Autosampler Location: 1  
 Sample ID: ICCB Date Collected: 6/23/2006 11:53:22 PM  
 Analyst: Data Type: Original  
 Initial Sample Wt: Initial Sample Vol:  
 Dilution: Sample Prep Vol:

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 Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	632.9	80.7	0.0482 mg/L	0.0482 mg/L	23:54:55
1	Li 670.784†	142.3	-25.6	-0.0030 mg/L	-0.0030 mg/L	23:54:55
1	Na 589.592	-727.4	85.8	-0.0911 mg/L	-0.0911 mg/L	23:54:55
1	Y 371.029	3315989.5	3315989.5	0.986 mg/L	0.986 mg/L	23:55:08
1	Ag 328.068†	-1762.6	765.5	0.0019 mg/L	0.0019 mg/L	23:55:13
1	Al 237.313†	-56.1	-3.9	0.0024 mg/L	0.0024 mg/L	23:55:34
1	As 188.979†	2.5	-2.2	-0.0001 mg/L	-0.0001 mg/L	23:55:34
1	B 182.528†	-2.0	0.6	0.0070 mg/L	0.0070 mg/L	23:55:34
1	Ba 233.527†	-160.1	17.5	-0.0002 mg/L	-0.0002 mg/L	23:55:34
1	Be 313.107†	2353.5	185.3	0.0002 mg/L	0.0002 mg/L	23:55:13
1	Ca 315.886†	1309.9	-490.7	-0.0075 mg/L	-0.0075 mg/L	23:55:13
1	Cd 228.802†	123.9	10.1	0.0002 mg/L	0.0002 mg/L	23:55:34
1	Co 228.616†	-172.1	2.3	-0.0002 mg/L	-0.0002 mg/L	23:55:34
1	Cr 267.716†	1283.9	-53.1	-0.0007 mg/L	-0.0007 mg/L	23:55:13
1	Cu 324.752†	2960.4	1080.0	0.0027 mg/L	0.0027 mg/L	23:55:13
1	Fe 234.349†	1419.8	202.4	0.0000 mg/L	0.0000 mg/L	23:55:34
1	Fe 238.204†	1352.1	256.3	-0.0032 mg/L	-0.0032 mg/L	23:55:34
1	Mg 279.077†	527.1	-8.0	-0.0117 mg/L	-0.0117 mg/L	23:55:13
1	Mn 257.610†	2041.2	188.8	-0.0023 mg/L	-0.0023 mg/L	23:55:13
1	Mo 202.031†	32.7	-4.1	-0.0001 mg/L	-0.0001 mg/L	23:55:34
1	Ni 231.604†	41.6	12.6	0.0007 mg/L	0.0007 mg/L	23:55:34
1	P 214.914†	42.2	-1.0	0.0247 mg/L	0.0247 mg/L	23:55:34
1	Pb 220.353†	-170.0	-20.9	-0.0041 mg/L	-0.0041 mg/L	23:55:34
1	Sb 206.836†	12.8	-2.2	-0.0004 mg/L	-0.0004 mg/L	23:55:34
1	Se 196.026†	-12.6	-8.7	-0.0006 mg/L	-0.0006 mg/L	23:55:34
1	Sn 189.927†	86.7	-101.8	-0.0339 mg/L	-0.0339 mg/L	23:55:34
1	Sr 407.771†	6405.1	193.6	-0.0002 mg/L	-0.0002 mg/L	23:55:08
1	Ti 337.279†	-2017.1	-72.2	0.0006 mg/L	0.0006 mg/L	23:55:13
1	Tl 190.801†	2.0	-17.5	0.0069 mg/L	0.0069 mg/L	23:55:34
1	V 292.402†	-1617.1	-13.7	0.0007 mg/L	0.0007 mg/L	23:55:13
1	Zn 213.857†	624.0	-40.8	0.0000 mg/L	0.0000 mg/L	23:55:34
2	K 766.490†	638.4	94.9	0.0560 mg/L	0.0560 mg/L	23:55:00
2	Li 670.784†	136.2	-30.0	-0.0032 mg/L	-0.0032 mg/L	23:55:00
2	Na 589.592	-729.6	83.7	-0.0914 mg/L	-0.0914 mg/L	23:55:00
2	Y 371.029	3272235.2	3272235.2	0.973 mg/L	0.973 mg/L	23:55:39
2	Ag 328.068†	-1806.5	696.6	0.0016 mg/L	0.0016 mg/L	23:55:45
2	Al 237.313†	-52.1	-0.5	0.0028 mg/L	0.0028 mg/L	23:56:05
2	As 188.979†	6.2	1.7	0.0052 mg/L	0.0052 mg/L	23:56:05
2	B 182.528†	1.5	4.2	0.0151 mg/L	0.0151 mg/L	23:56:05
2	Ba 233.527†	-159.5	15.9	-0.0002 mg/L	-0.0002 mg/L	23:56:05
2	Be 313.107†	2327.7	190.7	0.0002 mg/L	0.0002 mg/L	23:55:45
2	Ca 315.886†	1498.3	-279.3	-0.0060 mg/L	-0.0060 mg/L	23:55:45
2	Cd 228.802†	136.2	24.3	0.0005 mg/L	0.0005 mg/L	23:56:05
2	Co 228.616†	-157.4	15.0	0.0002 mg/L	0.0002 mg/L	23:56:05
2	Cr 267.716†	1252.8	-67.6	-0.0008 mg/L	-0.0008 mg/L	23:55:45
2	Cu 324.752†	2934.3	1093.3	0.0027 mg/L	0.0027 mg/L	23:55:45
2	Fe 234.349†	1411.4	213.0	0.0002 mg/L	0.0002 mg/L	23:56:05
2	Fe 238.204†	1296.1	217.1	-0.0035 mg/L	-0.0035 mg/L	23:56:05
2	Mg 279.077†	501.9	-26.8	-0.0124 mg/L	-0.0124 mg/L	23:55:45
2	Mn 257.610†	2070.7	246.8	-0.0022 mg/L	-0.0022 mg/L	23:55:45
2	Mo 202.031†	32.9	-3.5	-0.0001 mg/L	-0.0001 mg/L	23:56:05
2	Ni 231.604†	44.0	15.6	0.0008 mg/L	0.0008 mg/L	23:56:05

2	P 214.914†	45.0	2.5	0.0272 mg/L	0.0272 mg/L	23:56:05
2	Pb 220.353†	-152.6	-5.4	-0.0023 mg/L	-0.0023 mg/L	23:56:05
2	Sb 206.836†	9.3	-5.6	-0.0020 mg/L	-0.0020 mg/L	23:56:05
2	Se 196.026†	-5.3	-1.4	0.0086 mg/L	0.0086 mg/L	23:56:05
2	Sn 189.927†	91.7	-95.5	-0.0322 mg/L	-0.0322 mg/L	23:56:05
2	Sr 407.771†	6219.0	89.1	-0.0002 mg/L	-0.0002 mg/L	23:55:39
2	Ti 337.279†	-2188.5	-275.8	0.0003 mg/L	0.0003 mg/L	23:55:45
2	Tl 190.801†	-6.3	-26.0	-0.0001 mg/L	-0.0001 mg/L	23:56:05
2	V 292.402†	-1570.8	11.9	0.0008 mg/L	0.0008 mg/L	23:55:45
2	Zn 213.857†	612.7	-44.0	-0.0001 mg/L	-0.0001 mg/L	23:56:05

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Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3294112.3	0.979 mg/L	0.0092			0.94%
Ag 328.068†	731.1	0.0017 mg/L	0.00017	0.0017 mg/L	0.00017	9.73%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	-2.2	0.0026 mg/L	0.00027	0.0026 mg/L	0.00027	10.38%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	-0.3	0.0026 mg/L	0.00374	0.0026 mg/L	0.00374	145.90%
QC value within limits for As 188.979 Recovery = Not calculated						
B 182.528†	2.4	0.0111 mg/L	0.00571	0.0111 mg/L	0.00571	51.56%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	16.7	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	4.01%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	188.0	0.0002 mg/L	0.00000	0.0002 mg/L	0.00000	0.60%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.886†	-385.0	-0.0067 mg/L	0.00103	-0.0067 mg/L	0.00103	15.20%
QC value within limits for Ca 315.886 Recovery = Not calculated						
Cd 228.802†	17.2	0.0004 mg/L	0.00023	0.0004 mg/L	0.00023	60.80%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	8.6	0.0000 mg/L	0.00024	0.0000 mg/L	0.00024	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-60.3	-0.0007 mg/L	0.00007	-0.0007 mg/L	0.00007	9.04%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	1086.7	0.0027 mg/L	0.00004	0.0027 mg/L	0.00004	1.33%
QC value greater than the upper limit for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	207.7	0.0001 mg/L	0.00014	0.0001 mg/L	0.00014	138.06%
QC value within limits for Fe 234.349 Recovery = Not calculated						
Fe 238.204†	236.7	-0.0033 mg/L	0.00024	-0.0033 mg/L	0.00024	7.13%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	87.8	0.0521 mg/L	0.00551	0.0521 mg/L	0.00551	10.58%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 670.784†	-27.8	-0.0031 mg/L	0.00009	-0.0031 mg/L	0.00009	2.84%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	-17.4	-0.0121 mg/L	0.00053	-0.0121 mg/L	0.00053	4.41%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	217.8	-0.0023 mg/L	0.00005	-0.0023 mg/L	0.00005	1.98%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-3.8	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	33.01%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	84.8	-0.0912 mg/L	0.00019	-0.0912 mg/L	0.00019	0.21%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	14.1	0.0007 mg/L	0.00007	0.0007 mg/L	0.00007	9.23%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	0.8	0.0259 mg/L	0.00176	0.0259 mg/L	0.00176	6.77%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-13.1	-0.0032 mg/L	0.00124	-0.0032 mg/L	0.00124	38.86%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-3.9	-0.0012 mg/L	0.00116	-0.0012 mg/L	0.00116	98.82%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-5.1	0.0040 mg/L	0.00646	0.0040 mg/L	0.00646	160.87%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-98.7	-0.0331 mg/L	0.00119	-0.0331 mg/L	0.00119	3.59%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	141.3	-0.0002 mg/L	0.00000	-0.0002 mg/L	0.00000	1.47%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	-174.0	0.0005 mg/L	0.00018	0.0005 mg/L	0.00018	38.61%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	-21.7	0.0034 mg/L	0.00493	0.0034 mg/L	0.00493	143.82%
QC value within limits for Tl 190.801 Recovery = Not calculated						

V 292.402† -0.9 0.0007 mg/L 0.00007 0.0007 mg/L 0.00007 10.06%  
 QC value within limits for V 292.402 Recovery = Not calculated  
 Zn 213.857† -42.4 0.0000 mg/L 0.00003 0.0000 mg/L 0.00003 78.49%  
 QC value within limits for Zn 213.857 Recovery = Not calculated  
 QC Failed. Continue with analysis.

Sequence No.: 63  
 Sample ID: 0606374-05  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 49  
 Date Collected: 6/23/2006 11:57:42 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

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 Replicate Data: 0606374-05

Repl#	Analyte	Net		Corrected		Calib.		Sample		Analysis Time
		Intensity		Intensity		Conc. Units		Conc. Units		
1	K 766.490†	4955.8		4458.4		2.448 mg/L		2.448 mg/L		23:59:18
1	Li 670.784†	1836.4		1690.1		0.0462 mg/L		0.0462 mg/L		23:59:18
1	Na 589.592	41439.3		42252.5		5.032 mg/L		5.032 mg/L		23:59:18
1	Y 371.029	3321274.3		3321274.3		0.987 mg/L				23:59:36
1	Ag 328.068†	-2221.4		303.7		0.0026 mg/L		0.0026 mg/L		23:59:41
1	Al 237.313†	167663.5		169883.8		18.95 mg/L		18.95 mg/L		23:59:41
1	As 188.979†	140.7		137.8		0.1903 mg/L		0.1903 mg/L		00:00:01
1	B 182.528†	-3.5		-0.8		0.0037 mg/L		0.0037 mg/L		00:00:01
1	Ba 233.527†	17366.0		17770.5		0.1478 mg/L		0.1478 mg/L		23:59:41
1	Be 313.107†	9273.8		7191.2		0.0005 mg/L		0.0005 mg/L		23:59:41
1	Ca 315.886†	1080509.9		1092657.2		7.493 mg/L		7.493 mg/L		23:59:36
1	Cd 228.802†	338.5		227.2		0.0051 mg/L		0.0051 mg/L		00:00:01
1	Co 228.616†	1041.4		1231.6		0.0292 mg/L		0.0292 mg/L		00:00:01
1	Cr 267.716†	7810.9		6556.3		0.0449 mg/L		0.0449 mg/L		23:59:41
1	Cu 324.752†	22056.2		20417.9		0.0876 mg/L		0.0876 mg/L		23:59:41
1	Fe 234.349†	2988204.4		3025592.6		57.83 mg/L		57.83 mg/L		23:59:36
1	Fe 238.204†	6519136.7		6602289.5		56.47 mg/L		56.47 mg/L		23:59:36
1	Mg 279.077†	156631.7		158113.6		6.327 mg/L		6.327 mg/L		23:59:41
1	Mn 257.610†	1054999.3		1066754.4		1.171 mg/L		1.171 mg/L		23:59:36
1	Mo 202.031†	149.5		114.1		0.0077 mg/L		0.0077 mg/L		00:00:01
1	Ni 231.604†	3171.9		3183.3		0.1022 mg/L		0.1022 mg/L		23:59:41
1	P 214.914†	5910.5		5943.1		4.261 mg/L		4.261 mg/L		00:00:01
1	Pb 220.353†	398.6		555.2		0.0619 mg/L		0.0619 mg/L		00:00:01
1	Sb 206.836†	13.0		-2.0		-0.0024 mg/L		-0.0024 mg/L		00:00:01
1	Se 196.026†	-6.6		-2.6		0.0071 mg/L		0.0071 mg/L		00:00:01
1	Sn 189.927†	146.5		-41.4		-0.0142 mg/L		-0.0142 mg/L		00:00:01
1	Sr 407.771†	824068.6		828416.1		0.0372 mg/L		0.0372 mg/L		23:59:36
1	Ti 337.279†	1013756.0		1028834.3		1.298 mg/L		1.298 mg/L		23:59:36
1	Tl 190.801†	-18.1		-37.8		0.0077 mg/L		0.0077 mg/L		00:00:01
1	V 292.402†	11294.4		13067.3		0.0436 mg/L		0.0436 mg/L		23:59:41
1	Zn 213.857†	15626.1		15154.1		0.1913 mg/L		0.1913 mg/L		23:59:41
2	K 766.490†	4949.6		4447.5		2.442 mg/L		2.442 mg/L		23:59:24
2	Li 670.784†	1821.5		1673.3		0.0458 mg/L		0.0458 mg/L		23:59:24
2	Na 589.592	41313.1		42126.3		5.017 mg/L		5.017 mg/L		23:59:24
2	Y 371.029	3324362.9		3324362.9		0.988 mg/L				00:00:10
2	Ag 328.068†	-2152.2		375.8		0.0028 mg/L		0.0028 mg/L		00:00:16
2	Al 237.313†	166311.5		168357.8		18.78 mg/L		18.78 mg/L		00:00:16
2	As 188.979†	141.5		138.5		0.1913 mg/L		0.1913 mg/L		00:00:36
2	B 182.528†	-3.6		-1.0		0.0035 mg/L		0.0035 mg/L		00:00:36
2	Ba 233.527†	17263.9		17650.8		0.1468 mg/L		0.1468 mg/L		00:00:16
2	Be 313.107†	9404.3		7314.6		0.0005 mg/L		0.0005 mg/L		00:00:16
2	Ca 315.886†	1083331.8		1094496.1		7.505 mg/L		7.505 mg/L		00:00:10
2	Cd 228.802†	349.9		238.4		0.0053 mg/L		0.0053 mg/L		00:00:36
2	Co 228.616†	1070.9		1260.6		0.0300 mg/L		0.0300 mg/L		00:00:36
2	Cr 267.716†	7729.7		6466.8		0.0443 mg/L		0.0443 mg/L		00:00:16
2	Cu 324.752†	21947.3		20286.9		0.0871 mg/L		0.0871 mg/L		00:00:16
2	Fe 234.349†	2983453.5		3017972.7		57.69 mg/L		57.69 mg/L		00:00:10
2	Fe 238.204†	6520213.1		6597243.7		56.43 mg/L		56.43 mg/L		00:00:10
2	Mg 279.077†	155370.6		156690.0		6.270 mg/L		6.270 mg/L		00:00:16
2	Mn 257.610†	1056673.4		1067455.7		1.172 mg/L		1.172 mg/L		00:00:10
2	Mo 202.031†	139.6		104.0		0.0070 mg/L		0.0070 mg/L		00:00:36
2	Ni 231.604†	3192.6		3201.3		0.1027 mg/L		0.1027 mg/L		00:00:16
2	P 214.914†	5950.3		5977.9		4.286 mg/L		4.286 mg/L		00:00:36
2	Pb 220.353†	384.5		540.6		0.0603 mg/L		0.0603 mg/L		00:00:36
2	Sb 206.836†	14.7		-0.3		-0.0016 mg/L		-0.0016 mg/L		00:00:36

1	Sn 189.927†	1826.6	1698.8	0.4438 mg/L	0.4438 mg/L	01:39:47
1	Sr 407.771†	1052770.2	1082215.9	0.0487 mg/L	0.0487 mg/L	01:39:21
1	Ti 337.279†	364997.7	379366.7	0.4792 mg/L	0.4792 mg/L	01:39:27
1	Tl 190.801†	594.8	595.5	0.5119 mg/L	0.5119 mg/L	01:39:47
1	V 292.402†	115223.3	120763.0	0.4873 mg/L	0.4873 mg/L	01:39:27
1	Zn 213.857†	36512.9	37078.9	0.4778 mg/L	0.4778 mg/L	01:39:27
2	K 766.490†	43796.7	45230.5	24.80 mg/L	24.80 mg/L	01:39:12
2	Li 670.784†	16917.5	17518.1	0.5010 mg/L	0.5010 mg/L	01:39:12
2	Na 589.592	193320.2	194133.4	23.48 mg/L	23.48 mg/L	01:39:12
2	Y 371.029	3217624.7	3217624.7	0.956 mg/L		01:39:54
2	Ag 328.068†	64297.2	69780.1	0.2426 mg/L	0.2426 mg/L	01:39:59
2	Al 237.313†	20322.8	21301.7	2.402 mg/L	2.402 mg/L	01:39:59
2	As 188.979†	349.8	361.1	0.4962 mg/L	0.4962 mg/L	01:40:19
2	B 182.528†	208.9	221.1	0.5025 mg/L	0.5025 mg/L	01:40:19
2	Ba 233.527†	55435.4	58140.8	0.4844 mg/L	0.4844 mg/L	01:39:59
2	Be 313.107†	224052.7	232057.2	0.0477 mg/L	0.0477 mg/L	01:39:59
2	Ca 315.886†	671913.4	700703.3	4.806 mg/L	4.806 mg/L	01:39:54
2	Cd 228.802†	9493.0	9809.8	0.2417 mg/L	0.2417 mg/L	01:40:19
2	Co 228.616†	17429.2	18400.0	0.4804 mg/L	0.4804 mg/L	01:39:59
2	Cr 267.716†	73195.1	75174.0	0.4873 mg/L	0.4873 mg/L	01:39:59
2	Cu 324.752†	125637.6	129437.6	0.4907 mg/L	0.4907 mg/L	01:39:59
2	Fe 234.349†	122501.8	126844.4	2.415 mg/L	2.415 mg/L	01:39:59
2	Fe 238.204†	272423.3	283718.3	2.422 mg/L	2.422 mg/L	01:39:59
2	Mg 279.077†	115808.4	120541.4	4.833 mg/L	4.833 mg/L	01:39:59
2	Mn 257.610†	423609.7	441025.4	0.4827 mg/L	0.4827 mg/L	01:39:54
2	Mo 202.031†	7025.5	7308.2	0.4811 mg/L	0.4811 mg/L	01:40:19
2	Ni 231.604†	14901.4	15550.6	0.4984 mg/L	0.4984 mg/L	01:39:59
2	P 214.914†	6391.0	6638.3	4.756 mg/L	4.756 mg/L	01:40:19
2	Pb 220.353†	3919.6	4249.7	0.4795 mg/L	0.4795 mg/L	01:40:19
2	Sb 206.836†	959.9	988.4	0.4658 mg/L	0.4658 mg/L	01:40:19
2	Se 196.026†	728.9	766.2	0.9707 mg/L	0.9707 mg/L	01:40:19
2	Sn 189.927†	1835.2	1729.0	0.4518 mg/L	0.4518 mg/L	01:40:19
2	Sr 407.771†	1041379.8	1082516.0	0.0487 mg/L	0.0487 mg/L	01:39:54
2	Ti 337.279†	364989.1	383590.7	0.4846 mg/L	0.4846 mg/L	01:39:59
2	Tl 190.801†	596.3	603.9	0.5186 mg/L	0.5186 mg/L	01:40:19
2	V 292.402†	115861.6	122766.7	0.4953 mg/L	0.4953 mg/L	01:39:59
2	Zn 213.857†	36484.6	37472.7	0.4829 mg/L	0.4829 mg/L	01:39:59

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**Mean Data: CCV**

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3235670.0	0.962 mg/L	0.0076			
Ag 328.068†	69651.6	0.2421 mg/L	0.00064	0.2421 mg/L	0.00064	0.26%
QC value within limits for Ag 328.068		Recovery = 96.85%				
Al 237.313†	21197.0	2.391 mg/L	0.0167	2.391 mg/L	0.0167	0.70%
QC value within limits for Al 237.313		Recovery = 95.62%				
As 188.979†	359.9	0.4945 mg/L	0.00232	0.4945 mg/L	0.00232	0.47%
QC value within limits for As 188.979		Recovery = 98.90%				
B 182.528†	217.8	0.4950 mg/L	0.01055	0.4950 mg/L	0.01055	2.13%
QC value within limits for B 182.528		Recovery = 99.00%				
Ba 233.527†	57769.5	0.4813 mg/L	0.00438	0.4813 mg/L	0.00438	0.91%
QC value within limits for Ba 233.527		Recovery = 96.26%				
Be 313.107†	231066.9	0.0475 mg/L	0.00029	0.0475 mg/L	0.00029	0.60%
QC value within limits for Be 313.107		Recovery = 95.03%				
Ca 315.886†	702072.4	4.815 mg/L	0.0133	4.815 mg/L	0.0133	0.28%
QC value within limits for Ca 315.886		Recovery = 96.30%				
Cd 228.802†	9754.0	0.2403 mg/L	0.00197	0.2403 mg/L	0.00197	0.82%
QC value within limits for Cd 228.802		Recovery = 96.13%				
Co 228.616†	18233.5	0.4760 mg/L	0.00616	0.4760 mg/L	0.00616	1.29%
QC value within limits for Co 228.616		Recovery = 95.20%				
Cr 267.716†	74585.5	0.4834 mg/L	0.00540	0.4834 mg/L	0.00540	1.12%
QC value within limits for Cr 267.716		Recovery = 96.69%				
Cu 324.752†	129124.6	0.4895 mg/L	0.00168	0.4895 mg/L	0.00168	0.34%
QC value within limits for Cu 324.752		Recovery = 97.90%				
Fe 234.349†	126461.7	2.408 mg/L	0.0103	2.408 mg/L	0.0103	0.43%
QC value within limits for Fe 234.349		Recovery = 96.33%				
Fe 238.204†	282370.4	2.411 mg/L	0.0163	2.411 mg/L	0.0163	0.68%
QC value within limits for Fe 238.204		Recovery = 96.43%				
K 766.490†	44709.6	24.52 mg/L	0.404	24.52 mg/L	0.404	1.65%
QC value within limits for K 766.490		Recovery = 98.07%				
Li 670.784†	17363.1	0.4965 mg/L	0.00630	0.4965 mg/L	0.00630	1.27%

Mg	279.077†	120187.1	4.818 mg/L	0.0201	4.818 mg/L	0.0201	0.42%
QC value within limits for Li 670.784 Recovery = 99.30%							
Mn	257.610†	442022.9	0.4838 mg/L	0.00155	0.4838 mg/L	0.00155	0.32%
QC value within limits for Mg 279.077 Recovery = 96.37%							
Mo	202.031†	7247.0	0.4771 mg/L	0.00570	0.4771 mg/L	0.00570	1.19%
QC value within limits for Mn 257.610 Recovery = 96.77%							
Na	589.592	194048.2	23.47 mg/L	0.015	23.47 mg/L	0.015	0.06%
QC value within limits for Mo 202.031 Recovery = 95.41%							
Ni	231.604†	15377.0	0.4928 mg/L	0.00786	0.4928 mg/L	0.00786	1.60%
QC value within limits for Na 589.592 Recovery = 93.90%							
P	214.914†	6597.4	4.727 mg/L	0.0412	4.727 mg/L	0.0412	0.87%
QC value within limits for Ni 231.604 Recovery = 98.56%							
Pb	220.353†	4220.8	0.4763 mg/L	0.00462	0.4763 mg/L	0.00462	0.97%
QC value within limits for P 214.914 Recovery = 94.54%							
Sb	206.836†	981.7	0.4626 mg/L	0.00446	0.4626 mg/L	0.00446	0.96%
QC value within limits for Pb 220.353 Recovery = 95.25%							
Se	196.026†	766.0	0.9704 mg/L	0.00041	0.9704 mg/L	0.00041	0.04%
QC value within limits for Sb 206.836 Recovery = 92.52%							
Sn	189.927†	1713.9	0.4478 mg/L	0.00566	0.4478 mg/L	0.00566	1.26%
QC value within limits for Se 196.026 Recovery = 97.04%							
Sr	407.771†	1082365.9	0.0487 mg/L	0.00001	0.0487 mg/L	0.00001	0.02%
QC value less than the lower limit for Sr 407.771 Recovery = 89.56%							
Ti	337.279†	381478.7	0.4819 mg/L	0.00377	0.4819 mg/L	0.00377	0.78%
QC value within limits for Sn 189.927 Recovery = 97.40%							
Tl	190.801†	599.7	0.5153 mg/L	0.00480	0.5153 mg/L	0.00480	0.93%
QC value within limits for Ti 337.279 Recovery = 96.38%							
V	292.402†	121764.8	0.4913 mg/L	0.00572	0.4913 mg/L	0.00572	1.16%
QC value within limits for Tl 190.801 Recovery = 103.05%							
Zn	213.857†	37275.8	0.4804 mg/L	0.00356	0.4804 mg/L	0.00356	0.74%
QC value within limits for V 292.402 Recovery = 98.26%							
QC Failed. Continue with analysis.							

Sequence No.: 86

Sample ID: ICCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 6/24/2006 1:41:58 AM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	701.5	156.4	0.0897 mg/L	0.0897 mg/L	0.0897 mg/L	01:43:32
1	Li 670.784†	147.7	-18.9	-0.0029 mg/L	-0.0029 mg/L	-0.0029 mg/L	01:43:32
1	Na 589.592	-774.9	38.3	-0.0969 mg/L	-0.0969 mg/L	-0.0969 mg/L	01:43:32
1	Y 371.029	3287481.9	3287481.9	0.977 mg/L	0.977 mg/L	0.977 mg/L	01:43:46
1	Ag 328.068†	-1831.5	679.6	0.0016 mg/L	0.0016 mg/L	0.0016 mg/L	01:43:51
1	Al 237.313†	-55.7	-3.9	0.0024 mg/L	0.0024 mg/L	0.0024 mg/L	01:44:11
1	As 188.979†	4.3	-0.3	0.0025 mg/L	0.0025 mg/L	0.0025 mg/L	01:44:11
1	B 182.528†	-2.1	0.5	0.0068 mg/L	0.0068 mg/L	0.0068 mg/L	01:44:11
1	Ba 233.527†	-154.4	21.9	-0.0002 mg/L	-0.0002 mg/L	-0.0002 mg/L	01:44:11
1	Be 313.107†	2352.4	204.8	0.0002 mg/L	0.0002 mg/L	0.0002 mg/L	01:43:51
1	Ca 315.886†	1327.6	-461.0	-0.0073 mg/L	-0.0073 mg/L	-0.0073 mg/L	01:43:51
1	Cd 228.802†	129.3	16.6	0.0004 mg/L	0.0004 mg/L	0.0004 mg/L	01:44:11
1	Co 228.616†	-182.5	-9.9	-0.0005 mg/L	-0.0005 mg/L	-0.0005 mg/L	01:44:11
1	Cr 267.716†	1269.6	-56.3	-0.0007 mg/L	-0.0007 mg/L	-0.0007 mg/L	01:43:51
1	Cu 324.752†	2878.6	1022.3	0.0024 mg/L	0.0024 mg/L	0.0024 mg/L	01:43:51
1	Fe 234.349†	1311.3	103.8	-0.0019 mg/L	-0.0019 mg/L	-0.0019 mg/L	01:44:11
1	Fe 238.204†	1154.5	66.1	-0.0048 mg/L	-0.0048 mg/L	-0.0048 mg/L	01:44:11
1	Mg 279.077†	551.7	21.8	-0.0105 mg/L	-0.0105 mg/L	-0.0105 mg/L	01:43:51
1	Mn 257.610†	1842.8	3.7	-0.0025 mg/L	-0.0025 mg/L	-0.0025 mg/L	01:43:51
1	Mo 202.031†	52.9	16.8	0.0013 mg/L	0.0013 mg/L	0.0013 mg/L	01:44:11
1	Ni 231.604†	49.6	21.1	0.0010 mg/L	0.0010 mg/L	0.0010 mg/L	01:44:11
1	P 214.914†	34.6	-8.4	0.0194 mg/L	0.0194 mg/L	0.0194 mg/L	01:44:11
1	Pb 220.353†	-166.5	-18.9	-0.0038 mg/L	-0.0038 mg/L	-0.0038 mg/L	01:44:11
1	Sb 206.836†	11.9	-3.0	-0.0007 mg/L	-0.0007 mg/L	-0.0007 mg/L	01:44:11
1	Se 196.026†	-7.6	-3.7	0.0057 mg/L	0.0057 mg/L	0.0057 mg/L	01:44:11
1	Sn 189.927†	84.7	-103.1	-0.0342 mg/L	-0.0342 mg/L	-0.0342 mg/L	01:44:11
1	Sr 407.771†	6564.1	412.7	-0.0002 mg/L	-0.0002 mg/L	-0.0002 mg/L	01:43:46
1	Ti 337.279†	-2210.8	-288.2	0.0003 mg/L	0.0003 mg/L	0.0003 mg/L	01:43:51

1	Tl 190.801†	6.7	-12.7	0.0108 mg/L	0.0108 mg/L	01:44:11
1	V 292.402†	-1683.8	-96.3	0.0004 mg/L	0.0004 mg/L	01:43:51
1	Zn 213.857†	617.5	-42.0	0.0000 mg/L	0.0000 mg/L	01:44:11
2	K 766.490†	676.5	131.9	0.0763 mg/L	0.0763 mg/L	01:43:38
2	Li 670.784†	97.4	-70.2	-0.0043 mg/L	-0.0043 mg/L	01:43:38
2	Na 589.592	-741.0	72.2	-0.0928 mg/L	-0.0928 mg/L	01:43:38
2	Y 371.029	3282528.8	3282528.8	0.976 mg/L		01:44:17
2	Ag 328.068†	-1925.9	580.0	0.0012 mg/L	0.0012 mg/L	01:44:22
2	Al 237.313†	-67.6	-16.3	0.0010 mg/L	0.0010 mg/L	01:44:43
2	As 188.979†	6.4	1.9	0.0055 mg/L	0.0055 mg/L	01:44:43
2	B 182.528†	0.4	3.1	0.0125 mg/L	0.0125 mg/L	01:44:43
2	Ba 233.527†	-159.2	16.8	-0.0002 mg/L	-0.0002 mg/L	01:44:43
2	Be 313.107†	2147.5	-1.6	0.0001 mg/L	0.0001 mg/L	01:44:22
2	Ca 315.886†	1461.0	-322.3	-0.0063 mg/L	-0.0063 mg/L	01:44:22
2	Cd 228.802†	125.9	13.4	0.0003 mg/L	0.0003 mg/L	01:44:43
2	Co 228.616†	-163.1	9.7	0.0000 mg/L	0.0000 mg/L	01:44:43
2	Cr 267.716†	1287.4	-36.1	-0.0006 mg/L	-0.0006 mg/L	01:44:22
2	Cu 324.752†	2820.9	967.7	0.0022 mg/L	0.0022 mg/L	01:44:22
2	Fe 234.349†	1314.8	109.4	-0.0018 mg/L	-0.0018 mg/L	01:44:43
2	Fe 238.204†	1127.7	40.4	-0.0050 mg/L	-0.0050 mg/L	01:44:43
2	Mg 279.077†	600.9	73.2	-0.0084 mg/L	-0.0084 mg/L	01:44:22
2	Mn 257.610†	1828.2	-8.4	-0.0025 mg/L	-0.0025 mg/L	01:44:22
2	Mo 202.031†	46.0	9.8	0.0008 mg/L	0.0008 mg/L	01:44:43
2	Ni 231.604†	50.2	21.9	0.0010 mg/L	0.0010 mg/L	01:44:43
2	P 214.914†	32.5	-10.5	0.0179 mg/L	0.0179 mg/L	01:44:43
2	Pb 220.353†	-162.8	-15.3	-0.0034 mg/L	-0.0034 mg/L	01:44:43
2	Sb 206.836†	5.3	-9.8	-0.0040 mg/L	-0.0040 mg/L	01:44:43
2	Se 196.026†	-1.3	2.7	0.0138 mg/L	0.0138 mg/L	01:44:43
2	Sn 189.927†	78.6	-109.2	-0.0359 mg/L	-0.0359 mg/L	01:44:43
2	Sr 407.771†	6313.1	165.5	-0.0002 mg/L	-0.0002 mg/L	01:44:17
2	Ti 337.279†	-2154.0	-233.4	0.0004 mg/L	0.0004 mg/L	01:44:22
2	Tl 190.801†	1.7	-17.7	0.0067 mg/L	0.0067 mg/L	01:44:43
2	V 292.402†	-1568.3	19.5	0.0008 mg/L	0.0008 mg/L	01:44:22
2	Zn 213.857†	613.3	-45.4	-0.0001 mg/L	-0.0001 mg/L	01:44:43

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3285005.3	0.976 mg/L	0.0010			0.11%
Ag 328.068†	629.8	0.0014 mg/L	0.00025	0.0014 mg/L	0.00025	17.61%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	-10.1	0.0017 mg/L	0.00099	0.0017 mg/L	0.00099	58.62%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	0.8	0.0040 mg/L	0.00217	0.0040 mg/L	0.00217	54.22%
QC value within limits for As 188.979 Recovery = Not calculated						
B 182.528†	1.8	0.0097 mg/L	0.00403	0.0097 mg/L	0.00403	41.70%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	19.4	-0.0002 mg/L	0.00003	-0.0002 mg/L	0.00003	14.26%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	101.6	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	21.17%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.886†	-391.7	-0.0068 mg/L	0.00068	-0.0068 mg/L	0.00068	9.94%
QC value within limits for Ca 315.886 Recovery = Not calculated						
Cd 228.802†	15.0	0.0003 mg/L	0.00007	0.0003 mg/L	0.00007	21.48%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-0.1	-0.0002 mg/L	0.00036	-0.0002 mg/L	0.00036	149.01%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-46.2	-0.0006 mg/L	0.00009	-0.0006 mg/L	0.00009	14.35%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	995.0	0.0023 mg/L	0.00015	0.0023 mg/L	0.00015	6.29%
QC value greater than the upper limit for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	106.6	-0.0018 mg/L	0.00008	-0.0018 mg/L	0.00008	4.10%
QC value within limits for Fe 234.349 Recovery = Not calculated						
Fe 238.204†	53.2	-0.0049 mg/L	0.00016	-0.0049 mg/L	0.00016	3.17%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	144.2	0.0830 mg/L	0.00951	0.0830 mg/L	0.00951	11.47%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li 670.784†	-44.6	-0.0036 mg/L	0.00104	-0.0036 mg/L	0.00104	29.01%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	47.5	-0.0095 mg/L	0.00146	-0.0095 mg/L	0.00146	15.41%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated						

Mn 257.610†	-2.4	-0.0025 mg/L	0.00001	-0.0025 mg/L	0.00001	0.37%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	13.3	0.0010 mg/L	0.00032	0.0010 mg/L	0.00032	31.13%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592	55.3	-0.0948 mg/L	0.00291	-0.0948 mg/L	0.00291	3.07%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	21.5	0.0010 mg/L	0.00002	0.0010 mg/L	0.00002	1.75%
QC value within limits for Ni 231.604	Recovery = Not calculated					
P 214.914†	-9.4	0.0187 mg/L	0.00105	0.0187 mg/L	0.00105	5.63%
QC value within limits for P 214.914	Recovery = Not calculated					
Pb 220.353†	-17.1	-0.0036 mg/L	0.00028	-0.0036 mg/L	0.00028	7.77%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	-6.4	-0.0024 mg/L	0.00229	-0.0024 mg/L	0.00229	97.04%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	-0.5	0.0097 mg/L	0.00571	0.0097 mg/L	0.00571	58.67%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	-106.2	-0.0351 mg/L	0.00114	-0.0351 mg/L	0.00114	3.25%
QC value less than the lower limit for Sn 189.927	Recovery = Not calculated					
Sr 407.771†	289.1	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	3.58%
QC value within limits for Sr 407.771	Recovery = Not calculated					
Ti 337.279†	-260.8	0.0004 mg/L	0.00005	0.0004 mg/L	0.00005	13.55%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 190.801†	-15.2	0.0088 mg/L	0.00291	0.0088 mg/L	0.00291	33.23%
QC value within limits for Tl 190.801	Recovery = Not calculated					
V 292.402†	-38.4	0.0006 mg/L	0.00032	0.0006 mg/L	0.00032	53.69%
QC value within limits for V 292.402	Recovery = Not calculated					
Zn 213.857†	-43.7	-0.0001 mg/L	0.00003	-0.0001 mg/L	0.00003	54.14%
QC value within limits for Zn 213.857	Recovery = Not calculated					

QC Failed. Continue with analysis.

=====  
**Sequence No.:** 87  
**Sample ID:** 0606373-20  
**Analyst:**  
**Initial Sample Wt:**  
**Dilution:**  
**Autosampler Location:** 69  
**Date Collected:** 6/24/2006 1:46:20 AM  
**Data Type:** Original  
**Initial Sample Vol:**  
**Sample Prep Vol:**

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**Replicate Data:** 0606373-20

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	14117.3	13106.3	7.190 mg/L	7.190 mg/L	01:47:55
1	Li 670.784†	2410.9	2164.1	0.0599 mg/L	0.0599 mg/L	01:47:55
1	Na 589.592	46147.7	46960.9	5.604 mg/L	5.604 mg/L	01:47:55
1	Y 371.029	3474858.2	3474858.2	1.03 mg/L		01:48:13
1	Ag 328.068†	-1912.8	701.9	0.0042 mg/L	0.0042 mg/L	01:48:19
1	Al 237.313†	375690.9	363780.6	40.84 mg/L	40.84 mg/L	01:48:19
1	As 188.979†	27.1	21.5	0.0302 mg/L	0.0302 mg/L	01:48:39
1	B 182.528†	7.1	9.6	0.0272 mg/L	0.0272 mg/L	01:48:39
1	Ba 233.527†	34282.1	33370.4	0.2779 mg/L	0.2779 mg/L	01:48:19
1	Be 313.107†	25038.5	22038.7	0.0026 mg/L	0.0026 mg/L	01:48:19
1	Ca 315.886†	8461953.5	8190674.4	56.19 mg/L	56.19 mg/L	01:48:13
1	Cd 228.802†	179.3	57.9	0.0018 mg/L	0.0018 mg/L	01:48:39
1	Co 228.616†	735.0	888.4	0.0182 mg/L	0.0182 mg/L	01:48:39
1	Cr 267.716†	10426.3	8738.7	0.0587 mg/L	0.0587 mg/L	01:48:19
1	Cu 324.752†	27201.8	24412.1	0.1047 mg/L	0.1047 mg/L	01:48:19
1	Fe 234.349†	3459439.6	3348040.3	64.00 mg/L	64.00 mg/L	01:48:13
1	Fe 238.204†	7502253.5	7262238.9	62.12 mg/L	62.12 mg/L	01:48:13
1	Mg 279.077†	642305.2	621309.1	24.93 mg/L	24.93 mg/L	01:48:13
1	Mn 257.610†	2209991.4	2137735.1	2.349 mg/L	2.349 mg/L	01:48:13
1	Mo 202.031†	216.4	172.2	0.0115 mg/L	0.0115 mg/L	01:48:39
1	Ni 231.604†	1606.6	1525.8	0.0491 mg/L	0.0491 mg/L	01:48:39
1	P 214.914†	6468.8	6219.0	4.457 mg/L	4.457 mg/L	01:48:39
1	Pb 220.353†	1397.6	1504.6	0.1733 mg/L	0.1733 mg/L	01:48:39
1	Sb 206.836†	0.5	-14.7	-0.0098 mg/L	-0.0098 mg/L	01:48:39
1	Se 196.026†	0.7	4.7	0.0163 mg/L	0.0163 mg/L	01:48:39
1	Sn 189.927†	883.8	665.8	0.1744 mg/L	0.1744 mg/L	01:48:39
1	Sr 407.771†	3174523.9	3067130.8	0.1384 mg/L	0.1384 mg/L	01:48:13
1	Ti 337.279†	1844707.9	1787939.9	2.256 mg/L	2.256 mg/L	01:48:13
1	Tl 190.801†	-32.5	-50.9	0.0154 mg/L	0.0154 mg/L	01:48:39
1	V 292.402†	17636.4	18701.7	0.0640 mg/L	0.0640 mg/L	01:48:19
1	Zn 213.857†	24339.1	22890.2	0.2916 mg/L	0.2916 mg/L	01:48:19

2	K 766.490†	14205.2	13118.2	7.196 mg/L	7.196 mg/L	01:48:01
2	Li 670.784†	2360.3	2103.0	0.0581 mg/L	0.0581 mg/L	01:48:01
2	Na 589.592	45889.7	46702.9	5.573 mg/L	5.573 mg/L	01:48:01
2	Y 371.029	3493469.5	3493469.5	1.04 mg/L	1.04 mg/L	01:48:48
2	Ag 328.068†	-2066.5	563.8	0.0037 mg/L	0.0037 mg/L	01:48:54
2	Al 237.313†	379099.1	365124.9	41.00 mg/L	41.00 mg/L	01:48:54
2	As 188.979†	32.3	26.4	0.0368 mg/L	0.0368 mg/L	01:49:14
2	B 182.528†	7.3	9.7	0.0274 mg/L	0.0274 mg/L	01:49:14
2	Ba 233.527†	34539.5	33441.5	0.2784 mg/L	0.2784 mg/L	01:48:54
2	Be 313.107†	25210.5	22075.2	0.0026 mg/L	0.0026 mg/L	01:48:54
2	Ca 315.886†	8493725.8	8177625.7	56.10 mg/L	56.10 mg/L	01:48:48
2	Cd 228.802†	164.2	42.4	0.0014 mg/L	0.0014 mg/L	01:49:14
2	Co 228.616†	733.1	882.8	0.0181 mg/L	0.0181 mg/L	01:49:14
2	Cr 267.716†	10459.6	8717.0	0.0585 mg/L	0.0585 mg/L	01:48:54
2	Cu 324.752†	27617.7	24672.4	0.1056 mg/L	0.1056 mg/L	01:48:54
2	Fe 234.349†	3463218.5	3333836.2	63.72 mg/L	63.72 mg/L	01:48:48
2	Fe 238.204†	7529494.7	7249776.8	62.01 mg/L	62.01 mg/L	01:48:48
2	Mg 279.077†	643717.0	619355.8	24.86 mg/L	24.86 mg/L	01:48:48
2	Mn 257.610†	2219195.4	2135199.8	2.346 mg/L	2.346 mg/L	01:48:48
2	Mo 202.031†	213.3	168.1	0.0112 mg/L	0.0112 mg/L	01:49:14
2	Ni 231.604†	1607.1	1518.0	0.0489 mg/L	0.0489 mg/L	01:49:14
2	P 214.914†	6503.1	6218.7	4.457 mg/L	4.457 mg/L	01:49:14
2	Pb 220.353†	1423.2	1522.0	0.1753 mg/L	0.1753 mg/L	01:49:14
2	Sb 206.836†	5.8	-9.6	-0.0073 mg/L	-0.0073 mg/L	01:49:14
2	Se 196.026†	1.3	5.3	0.0170 mg/L	0.0170 mg/L	01:49:14
2	Sn 189.927†	888.3	665.6	0.1743 mg/L	0.1743 mg/L	01:49:14
2	Sr 407.771†	3184857.7	3060708.5	0.1381 mg/L	0.1381 mg/L	01:48:48
2	Ti 337.279†	1852984.5	1786395.6	2.254 mg/L	2.254 mg/L	01:48:48
2	Tl 190.801†	-20.6	-39.3	0.0249 mg/L	0.0249 mg/L	01:49:14
2	V 292.402†	17696.3	18668.4	0.0639 mg/L	0.0639 mg/L	01:48:54
2	Zn 213.857†	24487.6	22907.6	0.2918 mg/L	0.2918 mg/L	01:48:54

Mean Data: 0606373-20

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
Y 371.029	3484163.9	1.04 mg/L		0.004			0.38%
Ag 328.068†	632.8	0.0040 mg/L		0.00035	0.0040 mg/L	0.00035	8.74%
Al 237.313†	364452.8	40.92 mg/L		0.108	40.92 mg/L	0.108	0.26%
As 188.979†	24.0	0.0335 mg/L		0.00467	0.0335 mg/L	0.00467	13.91%
B 182.528†	9.7	0.0273 mg/L		0.00019	0.0273 mg/L	0.00019	0.68%
Ba 233.527†	33405.9	0.2782 mg/L		0.00042	0.2782 mg/L	0.00042	0.15%
Be 313.107†	22056.9	0.0026 mg/L		0.00001	0.0026 mg/L	0.00001	0.22%
Ca 315.886†	8184150.0	56.15 mg/L		0.063	56.15 mg/L	0.063	0.11%
Cd 228.802†	50.1	0.0016 mg/L		0.00030	0.0016 mg/L	0.00030	19.03%
Co 228.616†	885.6	0.0181 mg/L		0.00010	0.0181 mg/L	0.00010	0.55%
Cr 267.716†	8727.9	0.0586 mg/L		0.00011	0.0586 mg/L	0.00011	0.19%
Cu 324.752†	24542.3	0.1051 mg/L		0.00066	0.1051 mg/L	0.00066	0.63%
Fe 234.349†	3340938.2	63.86 mg/L		0.192	63.86 mg/L	0.192	0.30%
Fe 238.204†	7256007.9	62.07 mg/L		0.075	62.07 mg/L	0.075	0.12%
K 766.490†	13112.3	7.193 mg/L		0.0046	7.193 mg/L	0.0046	0.06%
Li 670.784†	2133.5	0.0590 mg/L		0.00124	0.0590 mg/L	0.00124	2.11%
Mg 279.077†	620332.5	24.90 mg/L		0.055	24.90 mg/L	0.055	0.22%
Mn 257.610†	2136467.4	2.348 mg/L		0.0020	2.348 mg/L	0.0020	0.08%
Mo 202.031†	170.1	0.0114 mg/L		0.00019	0.0114 mg/L	0.00019	1.65%
Na 589.592	46831.9	5.588 mg/L		0.0222	5.588 mg/L	0.0222	0.40%
Ni 231.604†	1521.9	0.0490 mg/L		0.00018	0.0490 mg/L	0.00018	0.36%
P 214.914†	6218.9	4.457 mg/L		0.0002	4.457 mg/L	0.0002	0.00%
Pb 220.353†	1513.3	0.1743 mg/L		0.00142	0.1743 mg/L	0.00142	0.82%
Sb 206.836†	-12.2	-0.0086 mg/L		0.00172	-0.0086 mg/L	0.00172	20.13%
Se 196.026†	5.0	0.0167 mg/L		0.00052	0.0167 mg/L	0.00052	3.12%
Sn 189.927†	665.7	0.1744 mg/L		0.00006	0.1744 mg/L	0.00006	0.03%
Sr 407.771†	3063919.7	0.1383 mg/L		0.00021	0.1383 mg/L	0.00021	0.15%
Ti 337.279†	1787167.7	2.255 mg/L		0.0014	2.255 mg/L	0.0014	0.06%
Tl 190.801†	-45.1	0.0201 mg/L		0.00670	0.0201 mg/L	0.00670	33.25%
V 292.402†	18685.1	0.0639 mg/L		0.00007	0.0639 mg/L	0.00007	0.11%
Zn 213.857†	22898.9	0.2917 mg/L		0.00018	0.2917 mg/L	0.00018	0.06%

Sequence No.: 88  
 Sample ID: 0606373-21  
 Analyst:

Autosampler Location: 70  
 Date Collected: 6/24/2006 1:50:53 AM  
 Data Type: Original



Initial Sample Wt:  
Dilution:

Initial Sample Vol:  
Sample Prep Vol:

## Replicate Data: 0606373-21

Repl#	Analyte	Net		Corrected		Calib.		Sample		Analysis Time
		Intensity	Intensity	Intensity	Intensity	Conc. Units	Conc. Units	Conc. Units	Conc. Units	
1	K 766.490†	22540.3	21899.7	12.01	mg/L	12.01	mg/L	12.01	mg/L	01:52:29
1	Li 670.784†	2096.2	1918.8	0.0528	mg/L	0.0528	mg/L	0.0528	mg/L	01:52:29
1	Na 589.592	43650.1	44463.3	5.301	mg/L	5.301	mg/L	5.301	mg/L	01:52:29
1	Y 371.029	3376070.0	3376070.0	1.00	mg/L	1.00	mg/L	1.00	mg/L	01:52:46
1	Ag 328.068†	-2640.8	-77.7	0.0023	mg/L	0.0023	mg/L	0.0023	mg/L	01:52:52
1	Al 237.313†	318635.7	317569.0	35.54	mg/L	35.54	mg/L	35.54	mg/L	01:52:52
1	As 188.979†	22.1	17.3	0.0231	mg/L	0.0231	mg/L	0.0231	mg/L	01:53:12
1	B 182.528†	5.8	8.5	0.0247	mg/L	0.0247	mg/L	0.0247	mg/L	01:53:12
1	Ba 233.527†	24155.2	24250.3	0.2018	mg/L	0.2018	mg/L	0.2018	mg/L	01:52:52
1	Be 313.107†	16667.1	14406.1	-0.0005	mg/L	-0.0005	mg/L	-0.0005	mg/L	01:52:52
1	Ca 315.886†	2464330.1	2453850.4	16.83	mg/L	16.83	mg/L	16.83	mg/L	01:52:46
1	Cd 228.802†	136.6	20.4	0.0012	mg/L	0.0012	mg/L	0.0012	mg/L	01:53:12
1	Co 228.616†	1783.0	1953.5	0.0430	mg/L	0.0430	mg/L	0.0430	mg/L	01:53:12
1	Cr 267.716†	11453.5	10057.7	0.0691	mg/L	0.0691	mg/L	0.0691	mg/L	01:52:52
1	Cu 324.752†	16207.3	14226.9	0.0706	mg/L	0.0706	mg/L	0.0706	mg/L	01:52:52
1	Fe 234.349†	4334531.2	4318060.9	82.54	mg/L	82.54	mg/L	82.54	mg/L	01:52:46
1	Fe 238.204†	9352110.8	9318130.7	79.71	mg/L	79.71	mg/L	79.71	mg/L	01:52:46
1	Mg 279.077†	389131.0	387220.8	15.52	mg/L	15.52	mg/L	15.52	mg/L	01:52:52
1	Mn 257.610†	1052090.5	1046511.2	1.149	mg/L	1.149	mg/L	1.149	mg/L	01:52:46
1	Mo 202.031†	109.5	71.8	0.0049	mg/L	0.0049	mg/L	0.0049	mg/L	01:53:12
1	Ni 231.604†	2486.2	2447.8	0.0786	mg/L	0.0786	mg/L	0.0786	mg/L	01:53:12
1	P 214.914†	12496.0	12408.3	8.868	mg/L	8.868	mg/L	8.868	mg/L	01:53:12
1	Pb 220.353†	130.9	281.9	0.0332	mg/L	0.0332	mg/L	0.0332	mg/L	01:53:12
1	Sb 206.836†	30.8	15.5	0.0031	mg/L	0.0031	mg/L	0.0031	mg/L	01:53:12
1	Se 196.026†	-6.3	-2.3	0.0075	mg/L	0.0075	mg/L	0.0075	mg/L	01:53:12
1	Sn 189.927†	123.8	-66.4	-0.0174	mg/L	-0.0174	mg/L	-0.0174	mg/L	01:53:12
1	Sr 407.771†	1090924.3	1080785.9	0.0486	mg/L	0.0486	mg/L	0.0486	mg/L	01:52:46
1	Ti 337.279†	2936877.7	2928531.3	3.695	mg/L	3.695	mg/L	3.695	mg/L	01:52:46
1	Tl 190.801†	-7.9	-27.4	0.0114	mg/L	0.0114	mg/L	0.0114	mg/L	01:53:12
1	V 292.402†	23392.0	24936.7	0.0844	mg/L	0.0844	mg/L	0.0844	mg/L	01:52:52
1	Zn 213.857†	67030.1	66120.6	0.8496	mg/L	0.8496	mg/L	0.8496	mg/L	01:52:52
2	K 766.490†	23069.3	22491.9	12.34	mg/L	12.34	mg/L	12.34	mg/L	01:52:35
2	Li 670.784†	2135.9	1964.4	0.0541	mg/L	0.0541	mg/L	0.0541	mg/L	01:52:35
2	Na 589.592	44174.4	44987.6	5.364	mg/L	5.364	mg/L	5.364	mg/L	01:52:35
2	Y 371.029	3366538.4	3366538.4	1.00	mg/L	1.00	mg/L	1.00	mg/L	01:53:21
2	Ag 328.068†	-2640.1	-84.4	0.0022	mg/L	0.0022	mg/L	0.0022	mg/L	01:53:26
2	Al 237.313†	316304.8	316138.7	35.38	mg/L	35.38	mg/L	35.38	mg/L	01:53:26
2	As 188.979†	20.4	15.7	0.0208	mg/L	0.0208	mg/L	0.0208	mg/L	01:53:47
2	B 182.528†	0.8	3.5	0.0135	mg/L	0.0135	mg/L	0.0135	mg/L	01:53:47
2	Ba 233.527†	23936.8	24100.1	0.2005	mg/L	0.2005	mg/L	0.2005	mg/L	01:53:26
2	Be 313.107†	16429.6	14215.7	-0.0005	mg/L	-0.0005	mg/L	-0.0005	mg/L	01:53:26
2	Ca 315.886†	2454159.1	2450639.2	16.81	mg/L	16.81	mg/L	16.81	mg/L	01:53:21
2	Cd 228.802†	133.1	17.3	0.0011	mg/L	0.0011	mg/L	0.0011	mg/L	01:53:47
2	Co 228.616†	1782.2	1957.8	0.0431	mg/L	0.0431	mg/L	0.0431	mg/L	01:53:47
2	Cr 267.716†	11232.0	9868.7	0.0679	mg/L	0.0679	mg/L	0.0679	mg/L	01:53:26
2	Cu 324.752†	16136.7	14202.1	0.0705	mg/L	0.0705	mg/L	0.0705	mg/L	01:53:26
2	Fe 234.349†	4333094.1	4328853.9	82.74	mg/L	82.74	mg/L	82.74	mg/L	01:53:21
2	Fe 238.204†	9349869.5	9342276.2	79.91	mg/L	79.91	mg/L	79.91	mg/L	01:53:21
2	Mg 279.077†	385025.0	384215.5	15.40	mg/L	15.40	mg/L	15.40	mg/L	01:53:26
2	Mn 257.610†	1050171.4	1047561.8	1.150	mg/L	1.150	mg/L	1.150	mg/L	01:53:21
2	Mo 202.031†	116.8	79.4	0.0054	mg/L	0.0054	mg/L	0.0054	mg/L	01:53:47
2	Ni 231.604†	2460.9	2429.6	0.0781	mg/L	0.0781	mg/L	0.0781	mg/L	01:53:47
2	P 214.914†	12517.0	12464.6	8.908	mg/L	8.908	mg/L	8.908	mg/L	01:53:47
2	Pb 220.353†	135.4	286.8	0.0337	mg/L	0.0337	mg/L	0.0337	mg/L	01:53:47
2	Sb 206.836†	23.2	8.0	-0.0005	mg/L	-0.0005	mg/L	-0.0005	mg/L	01:53:47
2	Se 196.026†	-5.5	-1.5	0.0085	mg/L	0.0085	mg/L	0.0085	mg/L	01:53:47
2	Sn 189.927†	107.7	-82.2	-0.0216	mg/L	-0.0216	mg/L	-0.0216	mg/L	01:53:47
2	Sr 407.771†	1090065.8	1083005.9	0.0487	mg/L	0.0487	mg/L	0.0487	mg/L	01:53:21
2	Ti 337.279†	2929334.8	2929279.5	3.696	mg/L	3.696	mg/L	3.696	mg/L	01:53:21
2	Tl 190.801†	-8.2	-27.7	0.0112	mg/L	0.0112	mg/L	0.0112	mg/L	01:53:47
2	V 292.402†	23283.2	24894.0	0.0842	mg/L	0.0842	mg/L	0.0842	mg/L	01:53:26
2	Zn 213.857†	66423.6	65703.7	0.8442	mg/L	0.8442	mg/L	0.8442	mg/L	01:53:26

Mean Data: 0606373-21

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3371304.2	1.00 mg/L	0.002			
Ag 328.068†	-81.1	0.0022 mg/L	0.00001	0.0022 mg/L	0.00001	0.20%
Al 237.313†	316853.9	35.46 mg/L	0.115	35.46 mg/L	0.115	0.47%
As 188.979†	16.5	0.0220 mg/L	0.00162	0.0220 mg/L	0.00162	7.39%
B 182.528†	6.0	0.0191 mg/L	0.00790	0.0191 mg/L	0.00790	41.39%
Ba 233.527†	24175.2	0.2012 mg/L	0.00089	0.2012 mg/L	0.00089	0.44%
Be 313.107†	14310.9	-0.0005 mg/L	0.00003	-0.0005 mg/L	0.00003	5.46%
Ca 315.886†	2452244.8	16.82 mg/L	0.016	16.82 mg/L	0.016	0.09%
Cd 228.802†	18.9	0.0011 mg/L	0.00004	0.0011 mg/L	0.00004	3.94%
Co 228.616†	1955.7	0.0431 mg/L	0.00008	0.0431 mg/L	0.00008	0.18%
Cr 267.716†	9963.2	0.0685 mg/L	0.00086	0.0685 mg/L	0.00086	1.25%
Cu 324.752†	14214.5	0.0705 mg/L	0.00004	0.0705 mg/L	0.00004	0.06%
Fe 234.349†	4323457.4	82.64 mg/L	0.146	82.64 mg/L	0.146	0.18%
Fe 238.204†	9330203.5	79.81 mg/L	0.146	79.81 mg/L	0.146	0.18%
K 766.490†	22195.8	12.17 mg/L	0.230	12.17 mg/L	0.230	1.89%
Li 670.784†	1941.6	0.0535 mg/L	0.00093	0.0535 mg/L	0.00093	1.73%
Mg 279.077†	385718.2	15.46 mg/L	0.085	15.46 mg/L	0.085	0.55%
Mn 257.610†	1047036.5	1.149 mg/L	0.0008	1.149 mg/L	0.0008	0.07%
Mo 202.031†	75.6	0.0051 mg/L	0.00035	0.0051 mg/L	0.00035	6.89%
Na 589.592	44725.5	5.332 mg/L	0.0450	5.332 mg/L	0.0450	0.84%
Ni 231.604†	2438.7	0.0784 mg/L	0.00041	0.0784 mg/L	0.00041	0.53%
P 214.914†	12436.4	8.888 mg/L	0.0284	8.888 mg/L	0.0284	0.32%
Pb 220.353†	284.4	0.0334 mg/L	0.00036	0.0334 mg/L	0.00036	1.08%
Sb 206.836†	11.8	0.0013 mg/L	0.00254	0.0013 mg/L	0.00254	195.16%
Se 196.026†	-1.9	0.0080 mg/L	0.00067	0.0080 mg/L	0.00067	8.41%
Sn 189.927†	-74.3	-0.0195 mg/L	0.00295	-0.0195 mg/L	0.00295	15.17%
Sr 407.771†	1081895.9	0.0487 mg/L	0.00007	0.0487 mg/L	0.00007	0.15%
Ti 337.279†	2928905.4	3.695 mg/L	0.0007	3.695 mg/L	0.0007	0.02%
Tl 190.801†	-27.5	0.0113 mg/L	0.00015	0.0113 mg/L	0.00015	1.37%
V 292.402†	24915.3	0.0843 mg/L	0.00013	0.0843 mg/L	0.00013	0.16%
Zn 213.857†	65912.2	0.8469 mg/L	0.00382	0.8469 mg/L	0.00382	0.45%

Sequence No.: 89  
Sample ID: 0606375-02  
Analyst:  
Initial Sample Wt:  
Dilution:

Autosampler Location: 71  
Date Collected: 6/24/2006 1:55:26 AM  
Data Type: Original  
Initial Sample Vol:  
Sample Prep Vol:

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Replicate Data: 0606375-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	45066.7	46406.9	25.45 mg/L	25.45 mg/L	01:56:58
1	Li 670.784†	8826.3	9028.7	0.2571 mg/L	0.2571 mg/L	01:56:58
1	Na 589.592	47856.9	48670.1	5.812 mg/L	5.812 mg/L	01:56:58
1	Y 371.029	3228003.3	3228003.3	0.960 mg/L		01:57:23
1	Ag 328.068†	-2807.3	-371.9	0.0027 mg/L	0.0027 mg/L	01:57:28
1	Al 237.313†	731764.4	762693.6	85.71 mg/L	85.71 mg/L	01:57:23
1	As 188.979†	206.5	210.4	0.2855 mg/L	0.2855 mg/L	01:57:49
1	B 182.528†	7.7	10.8	0.0298 mg/L	0.0298 mg/L	01:57:49
1	Ba 233.527†	40947.8	42855.5	0.3568 mg/L	0.3568 mg/L	01:57:28
1	Be 313.107†	23897.3	22703.2	-0.0007 mg/L	-0.0007 mg/L	01:57:28
1	Ca 315.886†	4198369.4	4373696.1	30.00 mg/L	30.00 mg/L	01:57:17
1	Cd 228.802†	425.8	328.0	0.0077 mg/L	0.0077 mg/L	01:57:49
1	Co 228.616†	2713.5	3004.8	0.0664 mg/L	0.0664 mg/L	01:57:49
1	Cr 267.716†	37780.3	38018.8	0.2522 mg/L	0.2522 mg/L	01:57:28
1	Cu 324.752†	33132.7	32607.2	0.1484 mg/L	0.1484 mg/L	01:57:28
1	Fe 234.349†	5934124.0	6183270.9	118.2 mg/L	118.2 mg/L	01:57:17
1	Fe 238.204†	12519375.6	13046503.8	111.6 mg/L	111.6 mg/L	01:57:17
1	Mg 279.077†	919142.6	957382.2	38.40 mg/L	38.40 mg/L	01:57:23
1	Mn 257.610†	1768903.9	1841659.1	2.024 mg/L	2.024 mg/L	01:57:23
1	Mo 202.031†	166.9	136.7	0.0092 mg/L	0.0092 mg/L	01:57:49
1	Ni 231.604†	7534.3	7822.6	0.2506 mg/L	0.2506 mg/L	01:57:28
1	P 214.914†	8094.6	8392.3	6.006 mg/L	6.006 mg/L	01:57:49
1	Pb 220.353†	-45.2	104.4	0.0214 mg/L	0.0214 mg/L	01:57:49
1	Sb 206.836†	50.3	37.2	0.0082 mg/L	0.0082 mg/L	01:57:49
1	Se 196.026†	-2.7	1.2	0.0119 mg/L	0.0119 mg/L	01:57:49
1	Sn 189.927†	73.5	-113.2	-0.0263 mg/L	-0.0263 mg/L	01:57:49
1	Sr 407.771†	3746563.9	3898342.1	0.1760 mg/L	0.1760 mg/L	01:57:17

2 Zn 213.857† 36781.7 37738.6 0.4863 mg/L 0.4863 mg/L 02:02:36

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 Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3214032.0	0.955 mg/L		0.0031			
Ag 328.068†	70319.1	0.2445 mg/L		0.00035	0.2445 mg/L	0.00035	0.32%
QC value within limits for Ag	328.068	Recovery = 97.78%					0.14%
Al 237.313†	21511.6	2.426 mg/L		0.0066	2.426 mg/L	0.0066	0.27%
QC value within limits for Al	237.313	Recovery = 97.04%					
As 188.979†	364.5	0.5009 mg/L		0.00219	0.5009 mg/L	0.00219	0.44%
QC value within limits for As	188.979	Recovery = 100.18%					
B 182.528†	217.2	0.4937 mg/L		0.00047	0.4937 mg/L	0.00047	0.09%
QC value within limits for B	182.528	Recovery = 98.75%					
Ba 233.527†	58529.3	0.4876 mg/L		0.00077	0.4876 mg/L	0.00077	0.16%
QC value within limits for Ba	233.527	Recovery = 97.52%					
Be 313.107†	233986.6	0.0481 mg/L		0.00011	0.0481 mg/L	0.00011	0.23%
QC value within limits for Be	313.107	Recovery = 96.23%					
Ca 315.886†	704745.2	4.833 mg/L		0.0070	4.833 mg/L	0.0070	0.14%
QC value within limits for Ca	315.886	Recovery = 96.67%					
Cd 228.802†	9857.3	0.2429 mg/L		0.00200	0.2429 mg/L	0.00200	0.82%
QC value within limits for Cd	228.802	Recovery = 97.15%					
Co 228.616†	18447.6	0.4816 mg/L		0.00106	0.4816 mg/L	0.00106	0.22%
QC value within limits for Co	228.616	Recovery = 96.32%					
Cr 267.716†	75604.6	0.4900 mg/L		0.00034	0.4900 mg/L	0.00034	0.07%
QC value within limits for Cr	267.716	Recovery = 98.01%					
Cu 324.752†	130142.8	0.4934 mg/L		0.00102	0.4934 mg/L	0.00102	0.21%
QC value within limits for Cu	324.752	Recovery = 98.67%					
Fe 234.349†	128083.6	2.439 mg/L		0.0027	2.439 mg/L	0.0027	0.11%
QC value within limits for Fe	234.349	Recovery = 97.56%					
Fe 238.204†	286354.2	2.445 mg/L		0.0004	2.445 mg/L	0.0004	0.02%
QC value within limits for Fe	238.204	Recovery = 97.80%					
K 766.490†	45191.5	24.78 mg/L		0.152	24.78 mg/L	0.152	0.61%
QC value within limits for K	766.490	Recovery = 99.13%					
Li 670.784†	17320.7	0.4953 mg/L		0.00009	0.4953 mg/L	0.00009	0.02%
QC value within limits for Li	670.784	Recovery = 99.06%					
Mg 279.077†	121823.4	4.884 mg/L		0.0104	4.884 mg/L	0.0104	0.21%
QC value within limits for Mg	279.077	Recovery = 97.68%					
Mn 257.610†	443295.4	0.4852 mg/L		0.00048	0.4852 mg/L	0.00048	0.10%
QC value within limits for Mn	257.610	Recovery = 97.05%					
Mo 202.031†	7332.6	0.4827 mg/L		0.00463	0.4827 mg/L	0.00463	0.96%
QC value within limits for Mo	202.031	Recovery = 96.54%					
Na 589.592	194571.5	23.54 mg/L		0.016	23.54 mg/L	0.016	0.07%
QC value within limits for Na	589.592	Recovery = 94.15%					
Ni 231.604†	15771.9	0.5055 mg/L		0.00453	0.5055 mg/L	0.00453	0.90%
QC value within limits for Ni	231.604	Recovery = 101.09%					
P 214.914†	6681.9	4.787 mg/L		0.0333	4.787 mg/L	0.0333	0.70%
QC value within limits for P	214.914	Recovery = 95.75%					
Pb 220.353†	4271.8	0.4820 mg/L		0.00291	0.4820 mg/L	0.00291	0.60%
QC value within limits for Pb	220.353	Recovery = 96.41%					
Sb 206.836†	986.7	0.4649 mg/L		0.00098	0.4649 mg/L	0.00098	0.21%
QC value within limits for Sb	206.836	Recovery = 92.98%					
Se 196.026†	775.1	0.9818 mg/L		0.00156	0.9818 mg/L	0.00156	0.16%
QC value within limits for Se	196.026	Recovery = 98.18%					
Sn 189.927†	1732.0	0.4526 mg/L		0.00419	0.4526 mg/L	0.00419	0.93%
QC value within limits for Sn	189.927	Recovery = 90.52%					
Sr 407.771†	1085167.8	0.0488 mg/L		0.00007	0.0488 mg/L	0.00007	0.15%
QC value within limits for Sr	407.771	Recovery = 97.65%					
Ti 337.279†	386279.0	0.4880 mg/L		0.00003	0.4880 mg/L	0.00003	0.01%
QC value within limits for Ti	337.279	Recovery = 97.59%					
Tl 190.801†	609.3	0.5231 mg/L		0.00887	0.5231 mg/L	0.00887	1.70%
QC value within limits for Tl	190.801	Recovery = 104.61%					
V 292.402†	123572.3	0.4986 mg/L		0.00120	0.4986 mg/L	0.00120	0.24%
QC value within limits for V	292.402	Recovery = 99.71%					
Zn 213.857†	37748.5	0.4864 mg/L		0.00015	0.4864 mg/L	0.00015	0.03%
QC value within limits for Zn	213.857	Recovery = 97.28%					

All analyte(s) passed QC.

Sequence No.: 91  
 Sample ID: ICCB

Autosampler Location: 1  
 Date Collected: 6/24/2006 2:04:34 AM

Analyst:  
Initial Sample Wt:  
Dilution:

Data Type: Original  
Initial Sample Vol:  
Sample Prep Vol:

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Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	692.0	152.2	0.0874 mg/L	0.0874 mg/L	02:06:08
1	Li 670.784†	133.4	-32.5	-0.0032 mg/L	-0.0032 mg/L	02:06:08
1	Na 589.592	-880.1	-66.9	-0.1097 mg/L	-0.1097 mg/L	02:06:08
1	Y 371.029	3262007.5	3262007.5	0.970 mg/L		02:06:21
1	Ag 328.068†	-1680.4	820.8	0.0021 mg/L	0.0021 mg/L	02:06:26
1	Al 237.313†	-52.5	-1.1	0.0027 mg/L	0.0027 mg/L	02:06:46
1	As 188.979†	2.8	-1.8	0.0004 mg/L	0.0004 mg/L	02:06:46
1	B 182.528†	-1.0	1.7	0.0094 mg/L	0.0094 mg/L	02:06:46
1	Ba 233.527†	-161.3	13.6	-0.0003 mg/L	-0.0003 mg/L	02:06:46
1	Be 313.107†	2287.6	156.9	0.0002 mg/L	0.0002 mg/L	02:06:26
1	Ca 315.886†	1090.7	-694.8	-0.0089 mg/L	-0.0089 mg/L	02:06:26
1	Cd 228.802†	123.3	11.5	0.0002 mg/L	0.0002 mg/L	02:06:46
1	Co 228.616†	-153.8	18.2	0.0002 mg/L	0.0002 mg/L	02:06:46
1	Cr 267.716†	1271.1	-44.7	-0.0006 mg/L	-0.0006 mg/L	02:06:26
1	Cu 324.752†	2975.2	1145.0	0.0029 mg/L	0.0029 mg/L	02:06:26
1	Fe 234.349†	1325.8	129.2	-0.0014 mg/L	-0.0014 mg/L	02:06:46
1	Fe 238.204†	1199.5	121.7	-0.0043 mg/L	-0.0043 mg/L	02:06:46
1	Mg 279.077†	483.1	-44.5	-0.0132 mg/L	-0.0132 mg/L	02:06:26
1	Mn 257.610†	1844.7	20.4	-0.0025 mg/L	-0.0025 mg/L	02:06:26
1	Mo 202.031†	36.0	-0.1	0.0002 mg/L	0.0002 mg/L	02:06:46
1	Ni 231.604†	57.4	29.6	0.0012 mg/L	0.0012 mg/L	02:06:46
1	P 214.914†	26.4	-16.6	0.0136 mg/L	0.0136 mg/L	02:06:46
1	Pb 220.353†	-139.1	8.1	-0.0008 mg/L	-0.0008 mg/L	02:06:46
1	Sb 206.836†	1.1	-14.1	-0.0061 mg/L	-0.0061 mg/L	02:06:46
1	Se 196.026†	-6.3	-2.5	0.0073 mg/L	0.0073 mg/L	02:06:46
1	Sn 189.927†	86.1	-101.1	-0.0337 mg/L	-0.0337 mg/L	02:06:46
1	Sr 407.771†	6297.4	190.0	-0.0002 mg/L	-0.0002 mg/L	02:06:21
1	Ti 337.279†	-2084.4	-175.5	0.0005 mg/L	0.0005 mg/L	02:06:26
1	Tl 190.801†	2.1	-17.3	0.0070 mg/L	0.0070 mg/L	02:06:46
1	V 292.402†	-1617.7	-41.5	0.0006 mg/L	0.0006 mg/L	02:06:26
1	Zn 213.857†	617.2	-37.4	0.0000 mg/L	0.0000 mg/L	02:06:46
2	K 766.490†	716.6	165.6	0.0947 mg/L	0.0947 mg/L	02:06:13
2	Li 670.784†	170.4	2.8	-0.0022 mg/L	-0.0022 mg/L	02:06:13
2	Na 589.592	-858.6	-45.4	-0.1070 mg/L	-0.1070 mg/L	02:06:13
2	Y 371.029	3316010.5	3316010.5	0.986 mg/L		02:06:52
2	Ag 328.068†	-1917.8	608.2	0.0013 mg/L	0.0013 mg/L	02:06:57
2	Al 237.313†	-63.6	-11.5	0.0015 mg/L	0.0015 mg/L	02:07:18
2	As 188.979†	4.7	0.0	0.0030 mg/L	0.0030 mg/L	02:07:18
2	B 182.528†	-3.1	-0.4	0.0046 mg/L	0.0046 mg/L	02:07:18
2	Ba 233.527†	-162.4	15.2	-0.0002 mg/L	-0.0002 mg/L	02:07:18
2	Be 313.107†	2256.1	86.5	0.0001 mg/L	0.0001 mg/L	02:06:57
2	Ca 315.886†	1283.1	-517.9	-0.0077 mg/L	-0.0077 mg/L	02:06:57
2	Cd 228.802†	128.2	14.4	0.0003 mg/L	0.0003 mg/L	02:07:18
2	Co 228.616†	-167.4	6.9	-0.0001 mg/L	-0.0001 mg/L	02:07:18
2	Cr 267.716†	1221.0	-116.9	-0.0011 mg/L	-0.0011 mg/L	02:06:57
2	Cu 324.752†	2894.3	1012.9	0.0024 mg/L	0.0024 mg/L	02:06:57
2	Fe 234.349†	1358.4	140.0	-0.0012 mg/L	-0.0012 mg/L	02:07:18
2	Fe 238.204†	1154.1	55.5	-0.0049 mg/L	-0.0049 mg/L	02:07:18
2	Mg 279.077†	409.6	-127.1	-0.0165 mg/L	-0.0165 mg/L	02:06:57
2	Mn 257.610†	1821.0	-34.6	-0.0026 mg/L	-0.0026 mg/L	02:06:57
2	Mo 202.031†	42.2	5.5	0.0005 mg/L	0.0005 mg/L	02:07:18
2	Ni 231.604†	50.3	21.5	0.0010 mg/L	0.0010 mg/L	02:07:18
2	P 214.914†	32.4	-10.9	0.0176 mg/L	0.0176 mg/L	02:07:18
2	Pb 220.353†	-152.9	-3.6	-0.0021 mg/L	-0.0021 mg/L	02:07:18
2	Sb 206.836†	5.1	-10.0	-0.0041 mg/L	-0.0041 mg/L	02:07:18
2	Se 196.026†	-8.3	-4.4	0.0049 mg/L	0.0049 mg/L	02:07:18
2	Sn 189.927†	77.8	-110.9	-0.0363 mg/L	-0.0363 mg/L	02:07:18
2	Sr 407.771†	6528.8	319.1	-0.0002 mg/L	-0.0002 mg/L	02:06:52
2	Ti 337.279†	-2029.4	-84.7	0.0006 mg/L	0.0006 mg/L	02:06:57
2	Tl 190.801†	-1.2	-20.7	0.0042 mg/L	0.0042 mg/L	02:07:18
2	V 292.402†	-1625.5	-22.2	0.0007 mg/L	0.0007 mg/L	02:06:57
2	Zn 213.857†	601.6	-63.6	-0.0003 mg/L	-0.0003 mg/L	02:07:18

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3289009.0	0.978 mg/L	0.0114			
Ag 328.068†	714.5	0.0017 mg/L	0.00052	0.0017 mg/L	0.00052	31.01%
QC value within limits for Ag 328.068		Recovery = Not calculated				
Al 237.313†	-6.3	0.0021 mg/L	0.00083	0.0021 mg/L	0.00083	39.53%
QC value within limits for Al 237.313		Recovery = Not calculated				
As 188.979†	-0.9	0.0017 mg/L	0.00183	0.0017 mg/L	0.00183	107.04%
QC value within limits for As 188.979		Recovery = Not calculated				
B 182.528†	0.6	0.0070 mg/L	0.00339	0.0070 mg/L	0.00339	48.42%
QC value within limits for B 182.528		Recovery = Not calculated				
Ba 233.527†	14.4	-0.0003 mg/L	0.00001	-0.0003 mg/L	0.00001	3.68%
QC value within limits for Ba 233.527		Recovery = Not calculated				
Be 313.107†	121.7	0.0001 mg/L	0.00001	0.0001 mg/L	0.00001	7.14%
QC value within limits for Be 313.107		Recovery = Not calculated				
Ca 315.886†	-606.4	-0.0083 mg/L	0.00086	-0.0083 mg/L	0.00086	10.38%
QC value within limits for Ca 315.886		Recovery = Not calculated				
Cd 228.802†	12.9	0.0003 mg/L	0.00004	0.0003 mg/L	0.00004	14.23%
QC value within limits for Cd 228.802		Recovery = Not calculated				
Co 228.616†	12.6	0.0001 mg/L	0.00021	0.0001 mg/L	0.00021	236.69%
QC value within limits for Co 228.616		Recovery = Not calculated				
Cr 267.716†	-80.8	-0.0009 mg/L	0.00033	-0.0009 mg/L	0.00033	38.09%
QC value within limits for Cr 267.716		Recovery = Not calculated				
Cu 324.752†	1078.9	0.0027 mg/L	0.00035	0.0027 mg/L	0.00035	13.38%
QC value greater than the upper limit for Cu 324.752		Recovery = Not calculated				
Fe 234.349†	134.6	-0.0013 mg/L	0.00015	-0.0013 mg/L	0.00015	11.41%
QC value within limits for Fe 234.349		Recovery = Not calculated				
Fe 238.204†	88.6	-0.0046 mg/L	0.00040	-0.0046 mg/L	0.00040	8.71%
QC value within limits for Fe 238.204		Recovery = Not calculated				
K 766.490†	158.9	0.0911 mg/L	0.00518	0.0911 mg/L	0.00518	5.68%
QC value greater than the upper limit for K 766.490		Recovery = Not calculated				
Li 670.784†	-14.8	-0.0027 mg/L	0.00072	-0.0027 mg/L	0.00072	26.21%
QC value within limits for Li 670.784		Recovery = Not calculated				
Mg 279.077†	-85.8	-0.0148 mg/L	0.00235	-0.0148 mg/L	0.00235	15.85%
QC value less than the lower limit for Mg 279.077		Recovery = Not calculated				
Mn 257.610†	-7.1	-0.0025 mg/L	0.00004	-0.0025 mg/L	0.00004	1.69%
QC value within limits for Mn 257.610		Recovery = Not calculated				
Mo 202.031†	2.7	0.0003 mg/L	0.00026	0.0003 mg/L	0.00026	77.17%
QC value within limits for Mo 202.031		Recovery = Not calculated				
Na 589.592	-56.2	-0.1084 mg/L	0.00185	-0.1084 mg/L	0.00185	1.70%
QC value within limits for Na 589.592		Recovery = Not calculated				
Ni 231.604†	25.5	0.0011 mg/L	0.00018	0.0011 mg/L	0.00018	16.64%
QC value within limits for Ni 231.604		Recovery = Not calculated				
P 214.914†	-13.7	0.0156 mg/L	0.00285	0.0156 mg/L	0.00285	18.28%
QC value within limits for P 214.914		Recovery = Not calculated				
Pb 220.353†	2.3	-0.0015 mg/L	0.00093	-0.0015 mg/L	0.00093	63.65%
QC value within limits for Pb 220.353		Recovery = Not calculated				
Sb 206.836†	-12.0	-0.0051 mg/L	0.00140	-0.0051 mg/L	0.00140	27.54%
QC value within limits for Sb 206.836		Recovery = Not calculated				
Se 196.026†	-3.4	0.0061 mg/L	0.00172	0.0061 mg/L	0.00172	28.27%
QC value within limits for Se 196.026		Recovery = Not calculated				
Sn 189.927†	-106.0	-0.0350 mg/L	0.00184	-0.0350 mg/L	0.00184	5.27%
QC value less than the lower limit for Sn 189.927		Recovery = Not calculated				
Sr 407.771†	254.5	-0.0002 mg/L	0.00000	-0.0002 mg/L	0.00000	1.85%
QC value within limits for Sr 407.771		Recovery = Not calculated				
Ti 337.279†	-130.1	0.0005 mg/L	0.00008	0.0005 mg/L	0.00008	15.41%
QC value within limits for Ti 337.279		Recovery = Not calculated				
Tl 190.801†	-19.0	0.0056 mg/L	0.00197	0.0056 mg/L	0.00197	35.02%
QC value within limits for Tl 190.801		Recovery = Not calculated				
V 292.402†	-31.9	0.0006 mg/L	0.00006	0.0006 mg/L	0.00006	9.63%
QC value within limits for V 292.402		Recovery = Not calculated				
Zn 213.857†	-50.5	-0.0001 mg/L	0.00024	-0.0001 mg/L	0.00024	164.56%
QC value within limits for Zn 213.857		Recovery = Not calculated				
QC Failed. Continue with analysis.						

Sequence No.: 92  
Sample ID: IC5A  
Analyst:  
Initial Sample Wt:  
Dilution:

Autosampler Location: 160  
Date Collected: 6/24/2006 2:08:55 AM  
Data Type: Original  
Initial Sample Vol:  
Sample Prep Vol:

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Replicate Data: ICSA

Repl#	Analyte	Net		Corrected		Calib.		Sample		Analysis Time
		Intensity		Intensity		Conc. Units		Conc. Units		
1	K 766.490†	688.6		218.7		0.1239	mg/L	0.1239	mg/L	02:10:30
1	Li 670.784†	214.9		73.4		-0.0002	mg/L	-0.0002	mg/L	02:10:30
1	Na 589.592	-517.3		295.9		-0.0656	mg/L	-0.0656	mg/L	02:10:30
1	Y 371.029	2969371.5		2969371.5		0.883	mg/L			02:10:55
1	Ag 328.068†	-2586.4		-376.5		0.0015	mg/L	0.0015	mg/L	02:11:00
1	Al 237.313†	1959652.2		2220278.3		250.6	mg/L	250.6	mg/L	02:10:55
1	As 188.979†	13.2		10.2		0.0169	mg/L	0.0169	mg/L	02:11:20
1	B 182.528†	8.4		12.2		0.0330	mg/L	0.0330	mg/L	02:11:20
1	Ba 233.527†	67.0		255.9		0.0018	mg/L	0.0018	mg/L	02:11:20
1	Be 313.107†	-96.5		-2311.8		0.0002	mg/L	0.0002	mg/L	02:11:00
1	Ca 315.886†	31257499.2		35411959.5		242.9	mg/L	242.9	mg/L	02:10:47
1	Cd 228.802†	88.6		-15.3		0.0001	mg/L	0.0001	mg/L	02:11:20
1	Co 228.616†	-117.0		44.2		0.0009	mg/L	0.0009	mg/L	02:11:20
1	Cr 267.716†	688.4		-575.7		0.0013	mg/L	0.0013	mg/L	02:11:00
1	Cu 324.752†	500.1		-1356.8		0.0097	mg/L	0.0097	mg/L	02:11:00
1	Fe 234.349†	4179240.1		4733711.6		90.48	mg/L	90.48	mg/L	02:10:55
1	Fe 238.204†	8982526.6		10175809.2		87.04	mg/L	87.04	mg/L	02:10:55
1	Mg 279.077†	5135252.9		5817539.9		233.5	mg/L	233.5	mg/L	02:10:55
1	Mn 257.610†	6476.7		5455.8		0.0035	mg/L	0.0035	mg/L	02:11:00
1	Mo 202.031†	246.0		241.4		0.0161	mg/L	0.0161	mg/L	02:11:20
1	Ni 231.604†	83.2		64.6		0.0024	mg/L	0.0024	mg/L	02:11:20
1	P 214.914†	-93.5		-149.7		-0.0813	mg/L	-0.0813	mg/L	02:11:20
1	Pb 220.353†	-573.6		-498.3		-0.0123	mg/L	-0.0123	mg/L	02:11:20
1	Sb 206.836†	-4.6		-20.4		-0.0090	mg/L	-0.0090	mg/L	02:11:20
1	Se 196.026†	11.7		17.3		0.0321	mg/L	0.0321	mg/L	02:11:20
1	Sn 189.927†	-9.6		-200.7		-0.0565	mg/L	-0.0565	mg/L	02:11:20
1	Sr 407.771†	22799.3		19526.3		0.0006	mg/L	0.0006	mg/L	02:11:00
1	Ti 337.279†	1995.8		4235.5		0.0060	mg/L	0.0060	mg/L	02:11:00
1	Tl 190.801†	43.3		29.5		0.0455	mg/L	0.0455	mg/L	02:11:20
1	V 292.402†	1107.9		2882.1		0.0007	mg/L	0.0007	mg/L	02:11:00
1	Zn 213.857†	2282.0		1911.5		0.0171	mg/L	0.0171	mg/L	02:11:20
2	K 766.490†	659.4		179.5		0.1023	mg/L	0.1023	mg/L	02:10:35
2	Li 670.784†	214.0		70.4		-0.0003	mg/L	-0.0003	mg/L	02:10:35
2	Na 589.592	-454.2		359.0		-0.0579	mg/L	-0.0579	mg/L	02:10:35
2	Y 371.029	2994479.3		2994479.3		0.890	mg/L			02:11:37
2	Ag 328.068†	-2357.1		-94.3		0.0025	mg/L	0.0025	mg/L	02:11:42
2	Al 237.313†	1976407.7		2220486.7		250.6	mg/L	250.6	mg/L	02:11:37
2	As 188.979†	5.9		2.0		0.0056	mg/L	0.0056	mg/L	02:12:03
2	B 182.528†	7.1		10.7		0.0297	mg/L	0.0297	mg/L	02:12:03
2	Ba 233.527†	66.5		254.6		0.0017	mg/L	0.0017	mg/L	02:12:03
2	Be 313.107†	-21.8		-2226.9		0.0002	mg/L	0.0002	mg/L	02:11:42
2	Ca 315.886†	31038514.1		34869002.5		239.2	mg/L	239.2	mg/L	02:11:29
2	Cd 228.802†	95.1		-8.8		0.0004	mg/L	0.0004	mg/L	02:12:03
2	Co 228.616†	-137.6		22.3		0.0003	mg/L	0.0003	mg/L	02:12:03
2	Cr 267.716†	731.8		-533.4		0.0016	mg/L	0.0016	mg/L	02:11:42
2	Cu 324.752†	441.7		-1427.2		0.0094	mg/L	0.0094	mg/L	02:11:42
2	Fe 234.349†	4217315.7		4736787.3		90.54	mg/L	90.54	mg/L	02:11:37
2	Fe 238.204†	9054078.3		10170864.9		87.00	mg/L	87.00	mg/L	02:11:37
2	Mg 279.077†	5179676.5		5818665.5		233.6	mg/L	233.6	mg/L	02:11:37
2	Mn 257.610†	6392.7		5299.9		0.0033	mg/L	0.0033	mg/L	02:11:42
2	Mo 202.031†	241.5		234.0		0.0156	mg/L	0.0156	mg/L	02:12:03
2	Ni 231.604†	71.5		50.7		0.0019	mg/L	0.0019	mg/L	02:12:03
2	P 214.914†	-107.4		-164.5		-0.0918	mg/L	-0.0918	mg/L	02:12:03
2	Pb 220.353†	-579.0		-499.0		-0.0124	mg/L	-0.0124	mg/L	02:12:03
2	Sb 206.836†	10.9		-3.0		-0.0007	mg/L	-0.0007	mg/L	02:12:03
2	Se 196.026†	17.1		23.2		0.0395	mg/L	0.0395	mg/L	02:12:03
2	Sn 189.927†	-0.0		-189.9		-0.0536	mg/L	-0.0536	mg/L	02:12:03
2	Sr 407.771†	22519.7		18995.6		0.0006	mg/L	0.0006	mg/L	02:11:42
2	Ti 337.279†	1759.3		3950.8		0.0057	mg/L	0.0057	mg/L	02:11:42
2	Tl 190.801†	61.2		49.3		0.0617	mg/L	0.0617	mg/L	02:12:03
2	V 292.402†	999.9		2750.3		0.0001	mg/L	0.0001	mg/L	02:11:42
2	Zn 213.857†	2294.9		1904.3		0.0170	mg/L	0.0170	mg/L	02:12:03

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Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
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Y 371.029	2981925.4	0.886 mg/L	0.0053				
Ag 328.068†	-235.4	0.0020 mg/L	0.00070	0.0020 mg/L	0.00070	34.60%	
QC value within limits for Ag 328.068			Recovery =	Not calculated			
Al 237.313†	2220382.5	250.6 mg/L	0.02	250.6 mg/L	0.02	0.01%	
QC value within limits for Al 237.313			Recovery =	100.25%			
As 188.979†	6.1	0.0113 mg/L	0.00799	0.0113 mg/L	0.00799	70.90%	
QC value within limits for As 188.979			Recovery =	Not calculated			
B 182.528†	11.5	0.0314 mg/L	0.00238	0.0314 mg/L	0.00238	7.59%	
QC value within limits for B 182.528			Recovery =	Not calculated			
Ba 233.527†	255.2	0.0018 mg/L	0.00001	0.0018 mg/L	0.00001	0.42%	
QC value within limits for Ba 233.527			Recovery =	Not calculated			
Be 313.107†	-2269.3	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	6.94%	
QC value within limits for Be 313.107			Recovery =	Not calculated			
Ca 315.886†	35140481.0	241.1 mg/L	2.63	241.1 mg/L	2.63	1.09%	
QC value within limits for Ca 315.886			Recovery =	96.43%			
Cd 228.802†	-12.0	0.0002 mg/L	0.00016	0.0002 mg/L	0.00016	64.70%	
QC value within limits for Cd 228.802			Recovery =	Not calculated			
Co 228.616†	33.2	0.0006 mg/L	0.00041	0.0006 mg/L	0.00041	65.72%	
QC value within limits for Co 228.616			Recovery =	Not calculated			
Cr 267.716†	-554.5	0.0015 mg/L	0.00020	0.0015 mg/L	0.00020	13.33%	
QC value within limits for Cr 267.716			Recovery =	Not calculated			
Cu 324.752†	-1392.0	0.0096 mg/L	0.00018	0.0096 mg/L	0.00018	1.90%	
QC value within limits for Cu 324.752			Recovery =	Not calculated			
Fe 234.349†	4735249.4	90.51 mg/L	0.042	90.51 mg/L	0.042	0.05%	
QC value within limits for Fe 234.349			Recovery =	90.51%			
Fe 238.204†	10173337.1	87.02 mg/L	0.030	87.02 mg/L	0.030	0.03%	
QC value within limits for Fe 238.204			Recovery =	87.02%			
K 766.490†	199.1	0.1131 mg/L	0.01523	0.1131 mg/L	0.01523	13.47%	
QC value within limits for K 766.490			Recovery =	Not calculated			
Li 670.784†	71.9	-0.0002 mg/L	0.00006	-0.0002 mg/L	0.00006	24.86%	
QC value within limits for Li 670.784			Recovery =	Not calculated			
Mg 279.077†	5818102.7	233.6 mg/L	0.03	233.6 mg/L	0.03	0.01%	
QC value within limits for Mg 279.077			Recovery =	93.43%			
Mn 257.610†	5377.9	0.0034 mg/L	0.00012	0.0034 mg/L	0.00012	3.57%	
QC value within limits for Mn 257.610			Recovery =	Not calculated			
Mo 202.031†	237.7	0.0158 mg/L	0.00035	0.0158 mg/L	0.00035	2.19%	
QC value within limits for Mo 202.031			Recovery =	Not calculated			
Na 589.592	327.5	-0.0617 mg/L	0.00542	-0.0617 mg/L	0.00542	8.78%	
QC value within limits for Na 589.592			Recovery =	Not calculated			
Ni 231.604†	57.6	0.0021 mg/L	0.00032	0.0021 mg/L	0.00032	14.74%	
QC value within limits for Ni 231.604			Recovery =	Not calculated			
P 214.914†	-157.1	-0.0866 mg/L	0.00743	-0.0866 mg/L	0.00743	8.59%	
QC value within limits for P 214.914			Recovery =	Not calculated			
Pb 220.353†	-498.7	-0.0123 mg/L	0.00005	-0.0123 mg/L	0.00005	0.43%	
QC value less than the lower limit for Pb 220.353			Recovery =	Not calculated			
Sb 206.836†	-11.7	-0.0049 mg/L	0.00591	-0.0049 mg/L	0.00591	121.64%	
QC value within limits for Sb 206.836			Recovery =	Not calculated			
Se 196.026†	20.3	0.0358 mg/L	0.00526	0.0358 mg/L	0.00526	14.71%	
QC value within limits for Se 196.026			Recovery =	Not calculated			
Sn 189.927†	-195.3	-0.0550 mg/L	0.00204	-0.0550 mg/L	0.00204	3.71%	
QC value less than the lower limit for Sn 189.927			Recovery =	Not calculated			
Sr 407.771†	19260.9	0.0006 mg/L	0.00002	0.0006 mg/L	0.00002	2.66%	
QC value within limits for Sr 407.771			Recovery =	Not calculated			
Ti 337.279†	4093.1	0.0059 mg/L	0.00025	0.0059 mg/L	0.00025	4.34%	
QC value within limits for Ti 337.279			Recovery =	Not calculated			
Tl 190.801†	39.4	0.0536 mg/L	0.01145	0.0536 mg/L	0.01145	21.37%	
QC value greater than the upper limit for Tl 190.801			Recovery =	Not calculated			
V 292.402†	2816.2	0.0004 mg/L	0.00038	0.0004 mg/L	0.00038	91.72%	
QC value within limits for V 292.402			Recovery =	Not calculated			
Zn 213.857†	1907.9	0.0171 mg/L	0.00007	0.0171 mg/L	0.00007	0.40%	
QC value within limits for Zn 213.857			Recovery =	Not calculated			
QC Failed. Continue with analysis.							

Sequence No.: 93  
 Sample ID: ICSAB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 159  
 Date Collected: 6/24/2006 2:13:41 AM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

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 Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	645.9	170.1	0.0972 mg/L	0.0972 mg/L	02:15:15
1	Li 670.784†	170.4	22.9	-0.0017 mg/L	-0.0017 mg/L	02:15:15
1	Na 589.592	-557.7	255.5	-0.0705 mg/L	-0.0705 mg/L	02:15:15
1	Y 371.029	2970502.7	2970502.7	0.883 mg/L		02:15:41
1	Ag 328.068†	121294.4	139924.3	0.4900 mg/L	0.4900 mg/L	02:15:46
1	Al 237.313†	1957620.6	2217132.0	250.3 mg/L	250.3 mg/L	02:15:41
1	As 188.979†	12.8	9.8	0.0161 mg/L	0.0161 mg/L	02:16:07
1	B 182.528†	10.0	14.0	0.0371 mg/L	0.0371 mg/L	02:16:07
1	Ba 233.527†	24360.0	27768.5	0.2310 mg/L	0.2310 mg/L	02:15:46
1	Be 313.107†	1012655.1	1144667.5	0.2376 mg/L	0.2376 mg/L	02:15:41
1	Ca 315.886†	30956433.6	35057505.1	240.5 mg/L	240.5 mg/L	02:15:33
1	Cd 228.802†	15713.3	17680.2	0.4379 mg/L	0.4379 mg/L	02:15:46
1	Co 228.616†	6853.3	7938.5	0.2075 mg/L	0.2075 mg/L	02:16:07
1	Cr 267.716†	31980.3	34863.3	0.2312 mg/L	0.2312 mg/L	02:15:46
1	Cu 324.752†	53524.4	58695.0	0.2377 mg/L	0.2377 mg/L	02:15:46
1	Fe 234.349†	4184282.7	4737619.4	90.55 mg/L	90.55 mg/L	02:15:41
1	Fe 238.204†	8980276.4	10169385.2	86.99 mg/L	86.99 mg/L	02:15:41
1	Mg 279.077†	5132642.6	5812368.0	233.3 mg/L	233.3 mg/L	02:15:41
1	Mn 257.610†	187975.3	211007.0	0.2297 mg/L	0.2297 mg/L	02:15:46
1	Mo 202.031†	233.8	227.5	0.0151 mg/L	0.0151 mg/L	02:16:07
1	Ni 231.604†	11977.2	13535.1	0.4335 mg/L	0.4335 mg/L	02:15:46
1	P 214.914†	-59.1	-110.7	-0.0535 mg/L	-0.0535 mg/L	02:16:07
1	Pb 220.353†	2850.5	3379.8	0.4256 mg/L	0.4256 mg/L	02:16:07
1	Sb 206.836†	9.8	-4.1	-0.0049 mg/L	-0.0049 mg/L	02:16:07
1	Se 196.026†	10.8	16.3	0.0308 mg/L	0.0308 mg/L	02:16:07
1	Sn 189.927†	13.7	-174.3	-0.0495 mg/L	-0.0495 mg/L	02:16:07
1	Sr 407.771†	21754.6	18333.2	0.0006 mg/L	0.0006 mg/L	02:15:46
1	Ti 337.279†	1712.9	3914.2	0.0056 mg/L	0.0056 mg/L	02:15:46
1	Tl 190.801†	59.8	48.3	0.0625 mg/L	0.0625 mg/L	02:16:07
1	V 292.402†	52841.9	61472.3	0.2333 mg/L	0.2333 mg/L	02:15:46
1	Zn 213.857†	33328.9	37072.3	0.4695 mg/L	0.4695 mg/L	02:15:46
2	K 766.490†	664.9	192.3	0.1093 mg/L	0.1093 mg/L	02:15:21
2	Li 670.784†	141.6	-9.5	-0.0026 mg/L	-0.0026 mg/L	02:15:21
2	Na 589.592	-608.1	205.2	-0.0766 mg/L	-0.0766 mg/L	02:15:21
2	Y 371.029	2967991.0	2967991.0	0.882 mg/L		02:16:24
2	Ag 328.068†	122576.7	141494.0	0.4955 mg/L	0.4955 mg/L	02:16:29
2	Al 237.313†	1958631.6	2220154.1	250.6 mg/L	250.6 mg/L	02:16:24
2	As 188.979†	9.4	5.9	0.0107 mg/L	0.0107 mg/L	02:16:50
2	B 182.528†	6.0	9.6	0.0271 mg/L	0.0271 mg/L	02:16:50
2	Ba 233.527†	24379.0	27813.5	0.2314 mg/L	0.2314 mg/L	02:16:29
2	Be 313.107†	1015475.3	1148834.8	0.2385 mg/L	0.2385 mg/L	02:16:24
2	Ca 315.886†	30898967.8	35022036.8	240.3 mg/L	240.3 mg/L	02:16:16
2	Cd 228.802†	15772.8	17762.7	0.4400 mg/L	0.4400 mg/L	02:16:29
2	Co 228.616†	6889.0	7985.4	0.2087 mg/L	0.2087 mg/L	02:16:50
2	Cr 267.716†	32095.6	35024.6	0.2322 mg/L	0.2322 mg/L	02:16:29
2	Cu 324.752†	53799.4	59058.0	0.2391 mg/L	0.2391 mg/L	02:16:29
2	Fe 234.349†	4182005.0	4739047.8	90.58 mg/L	90.58 mg/L	02:16:24
2	Fe 238.204†	8993601.3	10193095.8	87.19 mg/L	87.19 mg/L	02:16:24
2	Mg 279.077†	5141122.6	5826899.2	233.9 mg/L	233.9 mg/L	02:16:24
2	Mn 257.610†	188932.5	212272.1	0.2310 mg/L	0.2310 mg/L	02:16:29
2	Mo 202.031†	244.1	239.3	0.0159 mg/L	0.0159 mg/L	02:16:50
2	Ni 231.604†	11926.8	13489.3	0.4320 mg/L	0.4320 mg/L	02:16:29
2	P 214.914†	-47.8	-97.9	-0.0444 mg/L	-0.0444 mg/L	02:16:50
2	Pb 220.353†	2886.7	3423.6	0.4306 mg/L	0.4306 mg/L	02:16:50
2	Sb 206.836†	-2.1	-17.6	-0.0114 mg/L	-0.0114 mg/L	02:16:50
2	Se 196.026†	11.4	16.9	0.0316 mg/L	0.0316 mg/L	02:16:50
2	Sn 189.927†	-23.4	-216.3	-0.0606 mg/L	-0.0606 mg/L	02:16:50
2	Sr 407.771†	21952.1	18578.0	0.0006 mg/L	0.0006 mg/L	02:16:29
2	Ti 337.279†	1897.0	4124.5	0.0059 mg/L	0.0059 mg/L	02:16:29
2	Tl 190.801†	52.3	39.8	0.0555 mg/L	0.0555 mg/L	02:16:50
2	V 292.402†	52982.9	61682.8	0.2341 mg/L	0.2341 mg/L	02:16:29
2	Zn 213.857†	33380.1	37162.3	0.4707 mg/L	0.4707 mg/L	02:16:29

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**Mean Data: ICSAB**

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2969246.9	0.883 mg/L	0.0005			0.06%
Ag 328.068†	140709.2	0.4928 mg/L	0.00387	0.4928 mg/L	0.00387	0.78%

QC value within limits for Ag 328.068 Recovery = 98.55%



Al 237.313†	2218643.0	250.4 mg/L	0.24	250.4 mg/L	0.24	0.10%
QC value within limits for Al 237.313 Recovery = 100.17%						
As 188.979†	7.9	0.0134 mg/L	0.00378	0.0134 mg/L	0.00378	28.24%
QC value within limits for As 188.979 Recovery = Not calculated						
B 182.528†	11.8	0.0321 mg/L	0.00708	0.0321 mg/L	0.00708	22.08%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	27791.0	0.2312 mg/L	0.00026	0.2312 mg/L	0.00026	0.11%
QC value within limits for Ba 233.527 Recovery = 92.48%						
Be 313.107†	1146751.1	0.2380 mg/L	0.00061	0.2380 mg/L	0.00061	0.26%
QC value within limits for Be 313.107 Recovery = 95.21%						
Ca 315.886†	35039770.9	240.4 mg/L	0.17	240.4 mg/L	0.17	0.07%
QC value within limits for Ca 315.886 Recovery = 96.16%						
Cd 228.802†	17721.5	0.4389 mg/L	0.00147	0.4389 mg/L	0.00147	0.33%
QC value within limits for Cd 228.802 Recovery = 87.79%						
Co 228.616†	7961.9	0.2081 mg/L	0.00087	0.2081 mg/L	0.00087	0.42%
QC value within limits for Co 228.616 Recovery = 83.25%						
Cr 267.716†	34944.0	0.2317 mg/L	0.00074	0.2317 mg/L	0.00074	0.32%
QC value within limits for Cr 267.716 Recovery = 92.68%						
Cu 324.752†	58876.5	0.2384 mg/L	0.00098	0.2384 mg/L	0.00098	0.41%
QC value within limits for Cu 324.752 Recovery = 95.35%						
Fe 234.349†	4738333.6	90.57 mg/L	0.019	90.57 mg/L	0.019	0.02%
QC value within limits for Fe 234.349 Recovery = 90.57%						
Fe 238.204†	10181240.5	87.09 mg/L	0.143	87.09 mg/L	0.143	0.16%
QC value within limits for Fe 238.204 Recovery = 87.09%						
K 766.490†	181.2	0.1033 mg/L	0.00858	0.1033 mg/L	0.00858	8.31%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 670.784†	6.7	-0.0021 mg/L	0.00066	-0.0021 mg/L	0.00066	31.10%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	5819633.6	233.6 mg/L	0.41	233.6 mg/L	0.41	0.18%
QC value within limits for Mg 279.077 Recovery = 93.45%						
Mn 257.610†	211639.5	0.2303 mg/L	0.00098	0.2303 mg/L	0.00098	0.43%
QC value within limits for Mn 257.610 Recovery = 92.14%						
Mo 202.031†	233.4	0.0155 mg/L	0.00055	0.0155 mg/L	0.00055	3.56%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	230.3	-0.0735 mg/L	0.00432	-0.0735 mg/L	0.00432	5.88%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	13512.2	0.4328 mg/L	0.00103	0.4328 mg/L	0.00103	0.24%
QC value within limits for Ni 231.604 Recovery = 86.55%						
P 214.914†	-104.3	-0.0489 mg/L	0.00642	-0.0489 mg/L	0.00642	13.12%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	3401.7	0.4281 mg/L	0.00354	0.4281 mg/L	0.00354	0.83%
QC value within limits for Pb 220.353 Recovery = 85.62%						
Sb 206.836†	-10.8	-0.0081 mg/L	0.00461	-0.0081 mg/L	0.00461	56.65%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	16.6	0.0312 mg/L	0.00056	0.0312 mg/L	0.00056	1.79%
QC value greater than the upper limit for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-195.3	-0.0550 mg/L	0.00787	-0.0550 mg/L	0.00787	14.29%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	18455.6	0.0006 mg/L	0.00001	0.0006 mg/L	0.00001	1.30%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	4019.4	0.0058 mg/L	0.00019	0.0058 mg/L	0.00019	3.26%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	44.0	0.0590 mg/L	0.00490	0.0590 mg/L	0.00490	8.31%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated						
V 292.402†	61577.5	0.2337 mg/L	0.00060	0.2337 mg/L	0.00060	0.26%
QC value within limits for V 292.402 Recovery = 93.48%						
Zn 213.857†	37117.3	0.4701 mg/L	0.00083	0.4701 mg/L	0.00083	0.18%
QC value within limits for Zn 213.857 Recovery = 94.02%						
QC Failed. Continue with analysis.						

Sequence No.: 94  
 Sample ID: WASH  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 0  
 Date Collected: 6/24/2006 2:18:28 AM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

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 Replicate Data: WASH

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	582.2	36.7	0.0240 mg/L	0.0240 mg/L	02:19:55

## ANALYSIS SEQUENCE

BPG0231

Instrument: ICP3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0231-CAL1	QC		1		6F21081		
BPG0231-CAL2	QC		2		6F24002		
BPG0231-CAL3	QC		3		6F24003		
BPG0231-CAL4	QC		4		6F24004		
BPG0231-ICV1	QC		5		6F24003		
BPG0231-SCV1	QC		6		6F24007		
BPG0231-ICB1	QC		7				
BPG0231-CRL1	QC		8		6F24008		
BPG0231-CRL2	QC		9		6F24009		
BPG0231-CRL3	QC		10		6F24010		
BPG0231-IFA1	QC		11		6F13074		
BPG0231-CCB1	QC		12				
BPG0231-CCV1	QC		13		6F24003		
BPG0231-IFB1	QC		14		6F13075		
0606373-09RE1	Cu: ppm Copper 6010	F	15				MACTEC Engineering & Consulting, In
BPG0231-CCB2	QC		16				
BPG0231-CCV2	QC		17		6F24003		
BPG0231-IFA2	QC		18		6F13074		
BPG0231-IFB2	QC		19		6F13075		

Samples Loaded By

Date

Data Processed By

Date

CW

ESS Laboratory  
ICP Data Review Checklist

SIF: 062406NA	Date Run: 6/24/06		
Method: Everything-DV	Y-IS: 3268117.9		
Project Number(s): 06340 TX10, 373-09 TX10, 378, 382, 383, 387, 395, 396, 397, 403, 407 TX10, 409	SOP NO. 30 6010B		
Review Item	Yes (X)	No (X)	N/A (X)
1. Does the daily standard curve consist of a Calibration Blank and the required minimum number of calibration standards and is $R^2 > 0.995$ for all elements?	X		
2. Is the mid-point initial calibration standard reanalyzed immediately after calibration and results within QC limits? ( $\pm 5\%$ for 200.7, $10\%$ for 6010B)	X		
3. Are interference check standards analyzed at the beginning of each analytical run and within QC limits?	X		
4. Is the ICV from a second source and is its percent within QC limits ( $\pm 10\%$ and $\%RPD < 5$ )?	X		
5. Is the CRI standard 20% of the true value?	X		
6. Are the CCVs analyzed at required frequency and all parameters within QC limits? ( $\pm 10\%$ )	X		
7. Are the CCB standards analyzed at required frequency and at the end of the analytical sequence and are all parameters within QC limits? ( $< MRL$ )		X	
8. Is the method blank run at the desired frequency and is its concentration for target analytes less than the MRL?	X		
9. Is the Laboratory Control Sample run at the desired frequency and is the percent recovery within QC limits? ( $\pm 15\%$ for 200.7, $+20\%$ for 6010B)	X		
10. Is the Matrix Duplicate run at the desired frequency and is the RPD within QC limits? ( $\pm 20\%$ for aqueous and $+ 35\%$ for soil samples/ All USACE/Navy samples $\leq 25\%$ )	X		
11. Is the matrix spike run at the desired frequency and is the percent recovery /RPD within QC limits? (75-125%)		X	
12. Is a Serial Dilution Analysis performed at the desired frequency and within QC limits? ( $\pm 10\%$ )		X	
13. Are post-digestion spikes analyzed at the desired frequency and within QC limits? (85-115% for 200.7, 75-125% for 6010B)		X	
14. Are all samples with concentrations greater than the linear dynamic range diluted and reanalyzed?	X		
15. Are all sample IDs and units checked for transcription errors?	X		
16. Are all nonconformances included and noted?	X		
17. Is the correct methodology used for sample prep and analysis?	X		
18. Are all sample holding times met?	X		
19. Did analyst sign/date the appropriate print outs and report sheets?	X		

Comments on any "No" response:

06409-01 on sequence on 0640-01  
 Last <sup>in upshot</sup> CCBs out high for Ag, samples are ID. Out due to carryover, not instrument issue.  
 BF62403 - 1152, 502, 2052: Ag (06409) Re-precip 06409-01  $1.50 \pm 0.5/50$

Analyst: SW Date: 6/26/06 2<sup>nd</sup> Level Review: EE Date: 6/26/06

Page \_\_\_\_\_

Control 30.0007-0602A

Seq.	Loc.	Sample ID
1	1	Calib Blank 1
2	2	Calib Std 1
3	3	Calib Std 2
4	4	Calib Std 3
5	3	STD2
6	5	ICV
7	1	ICCB
8	6	CRI1
9	7	CRI2
10	8	CRI3
11	160	ICSA
12	159	ICSAB
13	3	CCV
14	1	ICCB
15	9	0606340-01tclp x10
16	10	0606340-02tclp x10
17	11	BF62307-dup1 x10
18	12	BF62307-ms1 x10
19	13	BF62307-sd1 x50
20	14	BF62307-pds1 x10
21	15	0606373-09 x10
22	16	BF62403-blk1
23	17	BF62403-bs1
24	18	BF62403-bsd1
25	3	CCV
26	1	ICCB
27	19	0606378-01
28	20	0606382-01
29	21	0606383-15
30	22	0606387-02
31	23	0606395-01
32	24	0606396-01
33	25	0606397-01
34	26	0606403-01
35	27	0606407-01
36	28	0606407-02
37	3	CCV
38	1	ICCB ✓
39	29	BF62403-dup1
40	30	BF62403-ms1
41	31	BF62403-sd1 x5
42	32	BF62403-pds1
43	33	0606407-03
44	34	0606407-01dis
45	35	0606407-02dis
46	36	0606407-03dis
47	37	<sup>FWD</sup> <sub>6/24/06</sub> <del>0606410-01</del> 0606409-01
48	38	BF62403-dup2
49	3	CCV
50	1	ICCB - <i>Ag</i>
51	39	BF62403-ms2
52	40	BF62403-sd2 x5
53	41	BF62403-pds2
54	42	060624filt
55	3	CCV
56	1	ICCB - <i>Ag</i>

*Ag*: 0.005  
*Al*: 0.05  
*As*: 0.01  
*Ba*: 0.01  
*Be*: 0.001  
*Cd*: 0.005  
*Cu*: 0.01  
*Cu*: 0.01  
*Fe*: 0.05  
*Mn*: 0.01  
*Pb*: 0.01  
*Sb*: 0.02  
*Se*: 0.02  
*Tl*: 0.1  
*Zn*: 0.01

Method : Everything-DV

Seq.	Loc.		Sample ID
57	160	QC	ICSA
58	159	QC	ICSAB
59	0		wash

0.5	15.0	122655.1
1.0	15.0	112777.1
1.5	15.0	85170.4
2.0	15.0	58752.1
2.5	15.0	16602.1
3.0	15.0	8810.2
3.5	15.0	9730.7
4.0	15.0	13058.6
4.5	15.0	17564.5
5.0	15.0	21228.6
5.5	15.0	19206.6
6.0	15.0	17817.1
6.5	15.0	12428.8
7.0	15.0	7505.5

6/24/2006 4:30:09 PM aligned for analyte Mn 257.610

X viewing position set to 0.0 mm having Peak intensity 125225.9 for Radial viewing

=====  
**Analysis Begun**

Start Time: 6/24/2006 4:31:39 PM

Plasma On Time: 6/24/2006 3:38:26 PM

Logged In Analyst: ICP3

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N1032302 Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\00dailycal.sif

Batch ID: dailycal

Results Data Set: 062406nad

Results Library: Q:\Metals\Results\ICP3\Results\Results.mdb

=====  
**Method Loaded**

Method Name: Everything-DV

Method Last Saved: 6/12/2006 12:12:53 PM

IEC File: 122905.iec

MSF File:

Method Description: Everything

=====  
**Sequence No.: 1**

Autosampler Location: 1

Sample ID: Calib Blank 1

Date Collected: 6/24/2006 4:31:39 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

=====  
**Replicate Data: Calib Blank 1**

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	K 766.490†	506.1	503.7	[0.00] mg/L	16:33:13
1	Li 670.784†	129.8	129.2	[0.00] mg/L	16:33:13
1	Na 589.592	-1212.0	-1212.0	[0.00] mg/L	16:33:13
1	Y 371.029	3315962.0	3315962.0	1.00 mg/L	16:33:27
1	Ag 328.068†	-1922.6	-1913.6	[0.00] mg/L	16:33:32
1	Al 237.313†	-85.8	-85.4	[0.00] mg/L	16:33:52
1	As 188.979†	5.8	5.8	[0.00] mg/L	16:33:52
1	B 182.528†	-5.5	-5.5	[0.00] mg/L	16:33:52
1	Ba 233.527†	-153.6	-152.9	[0.00] mg/L	16:33:52
1	Be 313.107†	1845.6	1836.9	[0.00] mg/L	16:33:32
1	Ca 315.886†	919.6	915.3	[0.00] mg/L	16:33:32
1	Cd 228.802†	137.1	136.4	[0.00] mg/L	16:33:52
1	Co 228.616†	-180.6	-179.8	[0.00] mg/L	16:33:52
1	Cr 267.716†	1251.7	1245.8	[0.00] mg/L	16:33:32
1	Cu 324.752†	4489.1	4468.0	[0.00] mg/L	16:33:32
1	Fe 234.349†	1362.6	1356.2	[0.00] mg/L	16:33:52
1	Fe 238.204†	1167.2	1161.7	[0.00] mg/L	16:33:52
1	Mg 279.077†	568.9	566.2	[0.00] mg/L	16:33:32
1	Mn 257.610†	2475.0	2463.4	[0.00] mg/L	16:33:32
1	Mo 202.031†	20.7	20.6	[0.00] mg/L	16:33:52
1	Ni 231.604†	44.8	44.6	[0.00] mg/L	16:33:52
1	P 214.914†	18.4	18.3	[0.00] mg/L	16:33:52
1	Pb 220.353†	-169.2	-168.4	[0.00] mg/L	16:33:52
1	Sb 206.836†	-7.5	-7.5	[0.00] mg/L	16:33:52

=====  
Analysis Begun

Start Time: 6/24/2006 5:23:47 PM  
Logged In Analyst: ICP3  
Spectrometer Model: Optima 4300 DV, S/N 077N1032302

Plasma On Time: 6/24/2006 3:38:26 PM  
Technique: ICP Continuous  
Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\062406na.sif  
Batch ID: dailycal  
Results Data Set: 062406nad  
Results Library: Q:\Metals\Results\ICP3\Results\Results.mdb

=====  
Sequence No.: 1  
Sample ID: Calib Blank 1  
Analyst:  
Initial Sample Wt:  
Dilution:

=====  
Autosampler Location: 1  
Date Collected: 6/24/2006 5:23:47 PM  
Data Type: Original  
Initial Sample Vol:  
Sample Prep Vol:

-----  
Replicate Data: Calib Blank 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Analysis Time
1	K 766.490†	519.9	518.6	[0.00] mg/L	17:25:22
1	Li 670.784†	171.3	170.9	[0.00] mg/L	17:25:22
1	Na 589.592	-1167.5	-1167.5	[0.00] mg/L	17:25:22
1	Y 371.029	3275979.9	3275979.9	1.00 mg/L	17:25:36
1	Ag 328.068†	-1859.6	-1855.1	[0.00] mg/L	17:25:41
1	Al 237.313†	-45.5	-45.4	[0.00] mg/L	17:26:01
1	As 188.979†	3.5	3.5	[0.00] mg/L	17:26:01
1	B 182.528†	-1.8	-1.8	[0.00] mg/L	17:26:01
1	Ba 233.527†	-171.3	-170.9	[0.00] mg/L	17:26:01
1	Be 313.107†	2051.6	2046.6	[0.00] mg/L	17:25:41
1	Ca 315.886†	1054.3	1051.7	[0.00] mg/L	17:25:41
1	Cd 228.802†	133.0	132.7	[0.00] mg/L	17:26:01
1	Co 228.616†	-149.8	-149.4	[0.00] mg/L	17:26:01
1	Cr 267.716†	1232.5	1229.6	[0.00] mg/L	17:25:41
1	Cu 324.752†	3126.1	3118.6	[0.00] mg/L	17:25:41
1	Fe 234.349†	1355.4	1352.1	[0.00] mg/L	17:26:01
1	Fe 238.204†	1270.1	1267.1	[0.00] mg/L	17:26:01
1	Mg 279.077†	574.1	572.7	[0.00] mg/L	17:25:41
1	Mn 257.610†	1894.7	1890.1	[0.00] mg/L	17:25:41
1	Mo 202.031†	33.6	33.5	[0.00] mg/L	17:26:01
1	Ni 231.604†	37.7	37.6	[0.00] mg/L	17:26:01
1	P 214.914†	19.2	19.1	[0.00] mg/L	17:26:01
1	Pb 220.353†	-176.9	-176.4	[0.00] mg/L	17:26:01
1	Sb 206.836†	10.8	10.8	[0.00] mg/L	17:26:01
1	Se 196.026†	-9.7	-9.7	[0.00] mg/L	17:26:01
1	Sn 189.927†	140.8	140.5	[0.00] mg/L	17:26:01
1	Sr 407.771†	6780.7	6764.5	[0.00] mg/L	17:25:36
1	Ti 337.279†	-2223.3	-2218.0	[0.00] mg/L	17:25:41
1	Tl 190.801†	4.3	4.3	[0.00] mg/L	17:26:01
1	V 292.402†	-1913.8	-1909.2	[0.00] mg/L	17:25:41
1	Zn 213.857†	661.2	659.6	[0.00] mg/L	17:26:01
2	K 766.490†	586.0	587.4	[0.00] mg/L	17:25:28
2	Li 670.784†	170.5	170.9	[0.00] mg/L	17:25:28
2	Na 589.592	-1183.5	-1183.5	[0.00] mg/L	17:25:28
2	Y 371.029	3260255.9	3260255.9	0.998 mg/L	17:26:07
2	Ag 328.068†	-1725.8	-1729.9	[0.00] mg/L	17:26:12
2	Al 237.313†	-61.8	-61.9	[0.00] mg/L	17:26:33
2	As 188.979†	4.5	4.5	[0.00] mg/L	17:26:33
2	B 182.528†	-6.6	-6.6	[0.00] mg/L	17:26:33
2	Ba 233.527†	-179.9	-180.3	[0.00] mg/L	17:26:33
2	Be 313.107†	1879.7	1884.2	[0.00] mg/L	17:26:12
2	Ca 315.886†	1049.5	1052.0	[0.00] mg/L	17:26:12
2	Cd 228.802†	119.3	119.6	[0.00] mg/L	17:26:33
2	Co 228.616†	-158.7	-159.1	[0.00] mg/L	17:26:33
2	Cr 267.716†	1163.9	1166.7	[0.00] mg/L	17:26:12
2	Cu 324.752†	3180.7	3188.4	[0.00] mg/L	17:26:12
2	Fe 234.349†	1381.1	1384.4	[0.00] mg/L	17:26:33
2	Fe 238.204†	1219.1	1222.0	[0.00] mg/L	17:26:33

2	Mg 279.077†	632.3	633.9	[0.00]	mg/L	17:26:12
2	Mn 257.610†	1890.4	1895.0	[0.00]	mg/L	17:26:12
2	Mo 202.031†	25.0	25.0	[0.00]	mg/L	17:26:33
2	Ni 231.604†	48.3	48.4	[0.00]	mg/L	17:26:33
2	P 214.914†	27.8	27.9	[0.00]	mg/L	17:26:33
2	Pb 220.353†	-174.2	-174.6	[0.00]	mg/L	17:26:33
2	Sb 206.836†	4.7	4.7	[0.00]	mg/L	17:26:33
2	Se 196.026†	-10.8	-10.9	[0.00]	mg/L	17:26:33
2	Sn 189.927†	137.0	137.3	[0.00]	mg/L	17:26:33
2	Sr 407.771†	6906.5	6923.2	[0.00]	mg/L	17:26:07
2	Ti 337.279†	-2333.4	-2339.0	[0.00]	mg/L	17:26:12
2	Tl 190.801†	-2.5	-2.5	[0.00]	mg/L	17:26:33
2	V 292.402†	-1943.7	-1948.4	[0.00]	mg/L	17:26:12
2	Zn 213.857†	669.5	671.1	[0.00]	mg/L	17:26:33

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 Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units	Calib
Y 371.029	3268117.9	11118.52	0.34%	1.00	mg/L	
Ag 328.068†	-1792.5	88.50	4.94%	[0.00]	mg/L	
Al 237.313†	-53.6	11.71	21.82%	[0.00]	mg/L	
As 188.979†	4.0	0.72	18.02%	[0.00]	mg/L	
B 182.528†	-4.2	3.40	80.61%	[0.00]	mg/L	
Ba 233.527†	-175.6	6.65	3.78%	[0.00]	mg/L	
Be 313.107†	1965.4	114.86	5.84%	[0.00]	mg/L	
Ca 315.886†	1051.9	0.19	0.02%	[0.00]	mg/L	
Cd 228.802†	126.2	9.25	7.33%	[0.00]	mg/L	
Co 228.616†	-154.2	6.85	4.44%	[0.00]	mg/L	
Cr 267.716†	1198.1	44.44	3.71%	[0.00]	mg/L	
Cu 324.752†	3153.5	49.32	1.56%	[0.00]	mg/L	
Fe 234.349†	1368.3	22.83	1.67%	[0.00]	mg/L	
Fe 238.204†	1244.6	31.88	2.56%	[0.00]	mg/L	
K 766.490†	553.0	48.62	8.79%	[0.00]	mg/L	
Li 670.784†	170.9	0.02	0.01%	[0.00]	mg/L	
Mg 279.077†	603.3	43.22	7.16%	[0.00]	mg/L	
Mn 257.610†	1892.5	3.43	0.18%	[0.00]	mg/L	
Mo 202.031†	29.3	6.02	20.58%	[0.00]	mg/L	
Na 589.592	-1175.5	11.29	0.96%	[0.00]	mg/L	
Ni 231.604†	43.0	7.66	17.82%	[0.00]	mg/L	
P 214.914†	23.5	6.20	26.36%	[0.00]	mg/L	
Pb 220.353†	-175.5	1.27	0.72%	[0.00]	mg/L	
Sb 206.836†	7.8	4.32	55.71%	[0.00]	mg/L	
Se 196.026†	-10.3	0.82	7.96%	[0.00]	mg/L	
Sn 189.927†	138.9	2.23	1.61%	[0.00]	mg/L	
Sr 407.771†	6843.8	112.23	1.64%	[0.00]	mg/L	
Ti 337.279†	-2278.5	85.58	3.76%	[0.00]	mg/L	
Tl 190.801†	0.9	4.81	555.83%	[0.00]	mg/L	
V 292.402†	-1928.8	27.74	1.44%	[0.00]	mg/L	
Zn 213.857†	665.4	8.08	1.22%	[0.00]	mg/L	

Sequence No.: 2

Sample ID: Calib Std 1

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 2

Date Collected: 6/24/2006 5:28:10 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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 Replicate Data: Calib Std 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Units	Calib.	Analysis Time
1	K 766.490†	9686.1	9150.3	[5.0000]	mg/L		17:29:46
1	Li 670.784†	3699.2	3534.9	[0.1]	mg/L		17:29:46
1	Na 589.592	41081.5	42257.0	[5.0000]	mg/L		17:29:46
1	Y 371.029	3262300.1	3262300.1	0.998	mg/L		17:29:59
1	Ag 328.068†	12036.0	13850.0	[0.05]	mg/L		17:30:05
1	Al 237.313†	4300.7	4362.0	[0.5]	mg/L		17:30:05
1	As 188.979†	82.9	79.1	[0.1000]	mg/L		17:30:25
1	B 182.528†	38.8	43.1	[0.1000]	mg/L		17:30:25
1	Ba 233.527†	11883.1	12079.9	[0.1000]	mg/L		17:30:05
1	Be 313.107†	49216.4	47338.7	[0.0100]	mg/L		17:30:05



1	Ca 315.886†	147663.6	146875.0	[1.0000]	mg/L	17:29:59
1	Cd 228.802†	2144.5	2022.2	[0.0500]	mg/L	17:30:25
1	Co 228.616†	3694.9	3855.8	[0.1000]	mg/L	17:30:25
1	Cr 267.716†	16397.4	15228.5	[0.1000]	mg/L	17:30:05
1	Cu 324.752†	29946.6	26846.5	[0.1000]	mg/L	17:30:05
1	Fe 234.349†	27496.2	26177.0	[0.5]	mg/L	17:30:05
1	Fe 238.204†	60803.0	59666.9	[0.5]	mg/L	17:30:05
1	Mg 279.077†	26044.1	25487.2	[1.0000]	mg/L	17:30:05
1	Mn 257.610†	95968.8	94247.4	[0.1000]	mg/L	17:30:05
1	Mo 202.031†	1483.0	1456.4	[0.1000]	mg/L	17:30:25
1	Ni 231.604†	3364.6	3327.7	[0.1000]	mg/L	17:30:05
1	P 214.914†	1391.7	1370.7	[1]	mg/L	17:30:25
1	Pb 220.353†	716.0	892.8	[0.1000]	mg/L	17:30:25
1	Sb 206.836†	201.5	194.1	[0.1000]	mg/L	17:30:25
1	Se 196.026†	160.6	171.2	[0.2000]	mg/L	17:30:25
1	Sn 189.927†	559.7	421.8	[0.1000]	mg/L	17:30:25
1	Sr 407.771†	237204.8	230784.0	[0.0100]	mg/L	17:29:59
1	Ti 337.279†	68791.5	71192.7	[0.1000]	mg/L	17:30:05
1	Tl 190.801†	97.1	96.4	[0.1000]	mg/L	17:30:25
1	V 292.402†	22664.8	24634.0	[0.1000]	mg/L	17:30:05
1	Zn 213.857†	8618.2	7968.2	[0.1000]	mg/L	17:30:05
2	K 766.490†	9722.7	9221.4	[5.0000]	mg/L	17:29:51
2	Li 670.784†	3643.7	3492.2	[0.1]	mg/L	17:29:51
2	Na 589.592	41217.3	42392.7	[5.0000]	mg/L	17:29:51
2	Y 371.029	3250814.2	3250814.2	0.995	mg/L	17:30:31
2	Ag 328.068†	12112.6	13969.6	[0.05]	mg/L	17:30:36
2	Al 237.313†	4309.1	4385.7	[0.5]	mg/L	17:30:36
2	As 188.979†	81.6	78.0	[0.1000]	mg/L	17:30:57
2	B 182.528†	44.9	49.4	[0.1000]	mg/L	17:30:57
2	Ba 233.527†	11898.1	12137.1	[0.1000]	mg/L	17:30:36
2	Be 313.107†	49525.8	47824.0	[0.0100]	mg/L	17:30:36
2	Ca 315.886†	147004.5	146735.2	[1.0000]	mg/L	17:30:31
2	Cd 228.802†	2136.9	2022.1	[0.0500]	mg/L	17:30:57
2	Co 228.616†	3685.3	3859.2	[0.1000]	mg/L	17:30:57
2	Cr 267.716†	16594.2	15484.4	[0.1000]	mg/L	17:30:36
2	Cu 324.752†	30121.8	27128.6	[0.1000]	mg/L	17:30:36
2	Fe 234.349†	27601.2	26379.8	[0.5]	mg/L	17:30:36
2	Fe 238.204†	61023.7	60103.9	[0.5]	mg/L	17:30:36
2	Mg 279.077†	26210.6	25746.8	[1.0000]	mg/L	17:30:36
2	Mn 257.610†	96439.5	95060.3	[0.1000]	mg/L	17:30:36
2	Mo 202.031†	1475.9	1454.5	[0.1000]	mg/L	17:30:57
2	Ni 231.604†	3393.0	3368.1	[0.1000]	mg/L	17:30:36
2	P 214.914†	1404.5	1388.5	[1]	mg/L	17:30:57
2	Pb 220.353†	705.4	884.7	[0.1000]	mg/L	17:30:57
2	Sb 206.836†	211.8	205.2	[0.1000]	mg/L	17:30:57
2	Se 196.026†	154.7	165.8	[0.2000]	mg/L	17:30:57
2	Sn 189.927†	554.3	418.4	[0.1000]	mg/L	17:30:57
2	Sr 407.771†	235983.1	230395.3	[0.0100]	mg/L	17:30:31
2	Ti 337.279†	69231.2	71878.2	[0.1000]	mg/L	17:30:36
2	Tl 190.801†	95.2	94.8	[0.1000]	mg/L	17:30:57
2	V 292.402†	22739.2	24789.0	[0.1000]	mg/L	17:30:36
2	Zn 213.857†	8675.0	8055.8	[0.1000]	mg/L	17:30:36

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Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	3256557.2	8121.77	0.25%	0.996	mg/L
Ag 328.068†	13909.8	84.60	0.61%	[0.05]	mg/L
Al 237.313†	4373.9	16.79	0.38%	[0.5]	mg/L
As 188.979†	78.5	0.73	0.92%	[0.1000]	mg/L
B 182.528†	46.3	4.42	9.55%	[0.1000]	mg/L
Ba 233.527†	12108.5	40.45	0.33%	[0.1000]	mg/L
Be 313.107†	47581.4	343.13	0.72%	[0.0100]	mg/L
Ca 315.886†	146805.1	98.90	0.07%	[1.0000]	mg/L
Cd 228.802†	2022.1	0.07	0.00%	[0.0500]	mg/L
Co 228.616†	3857.5	2.40	0.06%	[0.1000]	mg/L
Cr 267.716†	15356.4	180.96	1.18%	[0.1000]	mg/L
Cu 324.752†	26987.6	199.48	0.74%	[0.1000]	mg/L
Fe 234.349†	26278.4	143.43	0.55%	[0.5]	mg/L
Fe 238.204†	59885.4	309.02	0.52%	[0.5]	mg/L
K 766.490†	9185.9	50.26	0.55%	[5.0000]	mg/L

Li 670.784†	3513.6	30.17	0.86%	[0.1]	mg/L
Mg 279.077†	25617.0	183.60	0.72%	[1.0000]	mg/L
Mn 257.610†	94653.8	574.75	0.61%	[0.1000]	mg/L
Mo 202.031†	1455.4	1.38	0.09%	[0.1000]	mg/L
Na 589.592	42324.9	95.99	0.23%	[5.0000]	mg/L
Ni 231.604†	3347.9	28.61	0.85%	[0.1000]	mg/L
P 214.914†	1379.6	12.57	0.91%	[1]	mg/L
Pb 220.353†	888.7	5.78	0.65%	[0.1000]	mg/L
Sb 206.836†	199.6	7.88	3.95%	[0.1000]	mg/L
Se 196.026†	168.5	3.80	2.25%	[0.2000]	mg/L
Sn 189.927†	420.1	2.44	0.58%	[0.1000]	mg/L
Sr 407.771†	230589.7	274.84	0.12%	[0.0100]	mg/L
Ti 337.279†	71535.4	484.72	0.68%	[0.1000]	mg/L
Tl 190.801†	95.6	1.15	1.20%	[0.1000]	mg/L
V 292.402†	24711.5	109.62	0.44%	[0.1000]	mg/L
Zn 213.857†	8012.0	61.97	0.77%	[0.1000]	mg/L

Sequence No.: 3

Sample ID: Calib Std 2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/24/2006 5:32:34 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: Calib Std 2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	45721.9	45910.2	[25.0000]	mg/L	17:34:09
1	Li 670.784†	17322.8	17432.8	[0.5]	mg/L	17:34:09
1	Na 589.592	199745.3	200920.8	[25.000]	mg/L	17:34:09
1	Y 371.029	3215976.1	3215976.1	0.984	mg/L	17:34:23
1	Ag 328.068†	66158.9	69024.1	[0.25]	mg/L	17:34:29
1	Al 237.313†	21157.1	21553.8	[2.5]	mg/L	17:34:29
1	As 188.979†	388.6	390.9	[0.5000]	mg/L	17:34:49
1	B 182.528†	229.0	236.9	[0.5000]	mg/L	17:34:49
1	Ba 233.527†	58525.2	59649.8	[0.5000]	mg/L	17:34:29
1	Be 313.107†	231258.7	233042.8	[0.0500]	mg/L	17:34:23
1	Ca 315.886†	713059.9	723569.1	[5.0000]	mg/L	17:34:23
1	Cd 228.802†	9895.3	9929.6	[0.2500]	mg/L	17:34:49
1	Co 228.616†	18263.2	18713.6	[0.5000]	mg/L	17:34:29
1	Cr 267.716†	75137.8	75157.9	[0.5000]	mg/L	17:34:29
1	Cu 324.752†	132274.9	131266.0	[0.5000]	mg/L	17:34:29
1	Fe 234.349†	127898.3	128603.6	[2.5]	mg/L	17:34:29
1	Fe 238.204†	288272.2	291701.5	[2.5]	mg/L	17:34:29
1	Mg 279.077†	123933.9	125340.0	[5.0000]	mg/L	17:34:29
1	Mn 257.610†	446041.4	451380.7	[0.5000]	mg/L	17:34:23
1	Mo 202.031†	7079.9	7165.5	[0.5000]	mg/L	17:34:49
1	Ni 231.604†	16056.5	16273.9	[0.5000]	mg/L	17:34:29
1	P 214.914†	6791.0	6877.6	[5]	mg/L	17:34:49
1	Pb 220.353†	4056.1	4297.4	[0.5000]	mg/L	17:34:49
1	Sb 206.836†	994.7	1003.0	[0.5000]	mg/L	17:34:49
1	Se 196.026†	802.9	826.2	[1.0000]	mg/L	17:34:49
1	Sn 189.927†	1996.7	1890.2	[0.5000]	mg/L	17:34:49
1	Sr 407.771†	1100698.6	1111700.8	[0.0500]	mg/L	17:34:23
1	Ti 337.279†	348599.0	356529.4	[0.5000]	mg/L	17:34:29
1	Tl 190.801†	531.4	539.2	[0.5000]	mg/L	17:34:49
1	V 292.402†	118842.2	122697.8	[0.5000]	mg/L	17:34:29
1	Zn 213.857†	39267.6	39238.9	[0.5000]	mg/L	17:34:29
2	K 766.490†	45647.3	45484.6	[25.0000]	mg/L	17:34:14
2	Li 670.784†	17252.8	17229.4	[0.5]	mg/L	17:34:14
2	Na 589.592	199343.8	200519.3	[25.000]	mg/L	17:34:14
2	Y 371.029	3240409.5	3240409.5	0.992	mg/L	17:34:56
2	Ag 328.068†	66062.3	68419.7	[0.25]	mg/L	17:35:01
2	Al 237.313†	20979.6	21212.6	[2.5]	mg/L	17:35:01
2	As 188.979†	390.8	390.2	[0.5000]	mg/L	17:35:22
2	B 182.528†	229.3	235.4	[0.5000]	mg/L	17:35:22
2	Ba 233.527†	57995.3	58666.8	[0.5000]	mg/L	17:35:01
2	Be 313.107†	232940.5	232966.9	[0.0500]	mg/L	17:34:56
2	Ca 315.886†	718550.2	723642.5	[5.0000]	mg/L	17:34:56
2	Cd 228.802†	9985.7	9944.9	[0.2500]	mg/L	17:35:22
2	Co 228.616†	18102.7	18411.7	[0.5000]	mg/L	17:35:01

2	Cr 267.716†	74559.6	73999.0	[0.5000]	mg/L	17:35:01
2	Cu 324.752†	132199.1	130176.0	[0.5000]	mg/L	17:35:01
2	Fe 234.349†	126426.8	126139.6	[2.5]	mg/L	17:35:01
2	Fe 238.204†	285592.0	286789.5	[2.5]	mg/L	17:35:01
2	Mg 279.077†	122944.2	123392.2	[5.0000]	mg/L	17:35:01
2	Mn 257.610†	448778.0	450722.9	[0.5000]	mg/L	17:34:56
2	Mo 202.031†	7144.6	7176.5	[0.5000]	mg/L	17:35:22
2	Ni 231.604†	15919.4	16012.5	[0.5000]	mg/L	17:35:01
2	P 214.914†	6842.3	6877.3	[5]	mg/L	17:35:22
2	Pb 220.353†	4099.0	4309.6	[0.5000]	mg/L	17:35:22
2	Sb 206.836†	1010.5	1011.4	[0.5000]	mg/L	17:35:22
2	Se 196.026†	820.4	837.7	[1.0000]	mg/L	17:35:22
2	Sn 189.927†	2002.3	1880.6	[0.5000]	mg/L	17:35:22
2	Sr 407.771†	1107568.5	1110195.4	[0.0500]	mg/L	17:34:56
2	Ti 337.279†	346627.2	351869.6	[0.5000]	mg/L	17:35:01
2	Tl 190.801†	553.1	557.0	[0.5000]	mg/L	17:35:22
2	V 292.402†	117986.5	120924.2	[0.5000]	mg/L	17:35:01
2	Zn 213.857†	38827.6	38494.3	[0.5000]	mg/L	17:35:01

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Mean Data: Calib Std 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 371.029	3228192.8	17276.96	0.54%	0.988	mg/L
Ag 328.068†	68721.9	427.36	0.62%	[0.25]	mg/L
Al 237.313†	21383.2	241.21	1.13%	[2.5]	mg/L
As 188.979†	390.5	0.51	0.13%	[0.5000]	mg/L
B 182.528†	236.2	1.04	0.44%	[0.5000]	mg/L
Ba 233.527†	59158.3	695.03	1.17%	[0.5000]	mg/L
Be 313.107†	233004.8	53.65	0.02%	[0.0500]	mg/L
Ca 315.886†	723605.8	51.92	0.01%	[5.0000]	mg/L
Cd 228.802†	9937.3	10.88	0.11%	[0.2500]	mg/L
Co 228.616†	18562.6	213.41	1.15%	[0.5000]	mg/L
Cr 267.716†	74578.5	819.48	1.10%	[0.5000]	mg/L
Cu 324.752†	130721.0	770.77	0.59%	[0.5000]	mg/L
Fe 234.349†	127371.6	1742.34	1.37%	[2.5]	mg/L
Fe 238.204†	289245.5	3473.31	1.20%	[2.5]	mg/L
K 766.490†	45697.4	300.91	0.66%	[25.0000]	mg/L
Li 670.784†	17331.1	143.81	0.83%	[0.5]	mg/L
Mg 279.077†	124366.1	1377.30	1.11%	[5.0000]	mg/L
Mn 257.610†	451051.8	465.13	0.10%	[0.5000]	mg/L
Mo 202.031†	7171.0	7.77	0.11%	[0.5000]	mg/L
Na 589.592	200720.1	283.92	0.14%	[25.000]	mg/L
Ni 231.604†	16143.2	184.80	1.14%	[0.5000]	mg/L
P 214.914†	6877.4	0.22	0.00%	[5]	mg/L
Pb 220.353†	4303.5	8.65	0.20%	[0.5000]	mg/L
Sb 206.836†	1007.2	5.91	0.59%	[0.5000]	mg/L
Se 196.026†	831.9	8.12	0.98%	[1.0000]	mg/L
Sn 189.927†	1885.4	6.82	0.36%	[0.5000]	mg/L
Sr 407.771†	1110948.1	1064.46	0.10%	[0.0500]	mg/L
Ti 337.279†	354199.5	3294.95	0.93%	[0.5000]	mg/L
Tl 190.801†	548.1	12.62	2.30%	[0.5000]	mg/L
V 292.402†	121811.0	1254.11	1.03%	[0.5000]	mg/L
Zn 213.857†	38866.6	526.52	1.35%	[0.5000]	mg/L

Sequence No.: 4

Sample ID: Calib Std 3

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 6/24/2006 5:37:00 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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Replicate Data: Calib Std 3

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib Conc.	Units	Analysis Time
1	K 766.490†	90523.6	92284.3	[50.0000]	mg/L	17:38:35
1	Li 670.784†	33959.2	34656.3	[1]	mg/L	17:38:35
1	Na 589.592	398033.3	399208.8	[50.000]	mg/L	17:38:35
1	Y 371.029	3186668.6	3186668.6	0.975	mg/L	17:38:52
1	Ag 328.068†	133843.2	139056.7	[0.5]	mg/L	17:38:58
1	Al 237.313†	42045.1	43173.4	[5]	mg/L	17:38:58

1	As 188.979†	762.0	777.5	[1.0000]	mg/L	17:39:18
1	B 182.528†	461.8	477.8	[1.0000]	mg/L	17:39:18
1	Ba 233.527†	114827.8	117938.3	[1.0000]	mg/L	17:38:58
1	Be 313.107†	464383.3	474287.3	[0.1000]	mg/L	17:38:58
1	Ca 315.886†	1411772.7	1446804.9	[10.0000]	mg/L	17:38:52
1	Cd 228.802†	19505.7	19878.1	[0.5000]	mg/L	17:39:18
1	Co 228.616†	36166.1	37244.7	[1.0000]	mg/L	17:39:18
1	Cr 267.716†	146885.9	149442.0	[1.0000]	mg/L	17:38:58
1	Cu 324.752†	259702.9	263187.3	[1.0000]	mg/L	17:38:58
1	Fe 234.349†	249812.0	254828.7	[5.0]	mg/L	17:38:58
1	Fe 238.204†	562250.6	575376.8	[5.0]	mg/L	17:38:58
1	Mg 279.077†	242073.7	247657.7	[10.0000]	mg/L	17:38:58
1	Mn 257.610†	879661.3	900252.4	[1.0000]	mg/L	17:38:52
1	Mo 202.031†	14034.2	14363.6	[1.0000]	mg/L	17:39:18
1	Ni 231.604†	31313.1	32070.4	[1.0000]	mg/L	17:38:58
1	P 214.914†	13585.2	13908.9	[10]	mg/L	17:39:18
1	Pb 220.353†	8205.5	8590.7	[1.0000]	mg/L	17:39:18
1	Sb 206.836†	1970.6	2013.2	[1.0000]	mg/L	17:39:18
1	Se 196.026†	1612.4	1663.9	[2.0000]	mg/L	17:39:18
1	Sn 189.927†	3745.9	3702.7	[1.0000]	mg/L	17:39:18
1	Sr 407.771†	2162828.1	2211264.8	[0.1000]	mg/L	17:38:52
1	Ti 337.279†	693921.7	713936.4	[1.0000]	mg/L	17:38:58
1	Tl 190.801†	1205.7	1235.7	[1.0000]	mg/L	17:39:18
1	V 292.402†	237001.2	244987.6	[1.0000]	mg/L	17:38:58
1	Zn 213.857†	76309.9	77594.9	[1.0000]	mg/L	17:38:58
2	K 766.490†	91089.0	93321.1	[50.0000]	mg/L	17:38:41
2	Li 670.784†	34339.9	35219.0	[1]	mg/L	17:38:41
2	Na 589.592	399062.2	400237.7	[50.000]	mg/L	17:38:41
2	Y 371.029	3171157.9	3171157.9	0.970	mg/L	17:39:26
2	Ag 328.068†	131800.7	137623.1	[0.5]	mg/L	17:39:32
2	Al 237.313†	41944.4	43280.5	[5]	mg/L	17:39:32
2	As 188.979†	762.6	781.9	[1.0000]	mg/L	17:39:52
2	B 182.528†	458.3	476.6	[1.0000]	mg/L	17:39:52
2	Ba 233.527†	114434.3	118108.8	[1.0000]	mg/L	17:39:32
2	Be 313.107†	460606.6	472724.5	[0.1000]	mg/L	17:39:32
2	Ca 315.886†	1403446.0	1445305.3	[10.0000]	mg/L	17:39:26
2	Cd 228.802†	19561.0	20033.0	[0.5000]	mg/L	17:39:52
2	Co 228.616†	36209.4	37470.8	[1.0000]	mg/L	17:39:52
2	Cr 267.716†	146011.1	149277.3	[1.0000]	mg/L	17:39:32
2	Cu 324.752†	256580.5	261272.1	[1.0000]	mg/L	17:39:32
2	Fe 234.349†	248172.5	254392.2	[5.0]	mg/L	17:39:32
2	Fe 238.204†	560363.1	576252.0	[5.0]	mg/L	17:39:32
2	Mg 279.077†	240549.6	247301.3	[10.0000]	mg/L	17:39:32
2	Mn 257.610†	874482.9	899328.2	[1.0000]	mg/L	17:39:26
2	Mo 202.031†	14065.1	14465.9	[1.0000]	mg/L	17:39:52
2	Ni 231.604†	30903.3	31805.2	[1.0000]	mg/L	17:39:32
2	P 214.914†	13597.9	13990.2	[10]	mg/L	17:39:52
2	Pb 220.353†	8186.3	8612.1	[1.0000]	mg/L	17:39:52
2	Sb 206.836†	1975.1	2027.7	[1.0000]	mg/L	17:39:52
2	Se 196.026†	1614.1	1673.8	[2.0000]	mg/L	17:39:52
2	Sn 189.927†	3737.3	3712.7	[1.0000]	mg/L	17:39:52
2	Sr 407.771†	2155876.9	2214950.3	[0.1000]	mg/L	17:39:26
2	Ti 337.279†	690280.4	713664.7	[1.0000]	mg/L	17:39:32
2	Tl 190.801†	1217.2	1253.5	[1.0000]	mg/L	17:39:52
2	V 292.402†	235964.2	245107.7	[1.0000]	mg/L	17:39:32
2	Zn 213.857†	75989.6	77647.6	[1.0000]	mg/L	17:39:32

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Mean Data: Calib Std 3

Analyte	Mean Corrected			RSD	Conc. Units	Calib
	Intensity	Std.Dev.				
Y 371.029	3178913.2	10967.75	0.35%	0.973	mg/L	
Ag 328.068†	138339.9	1013.73	0.73%	[0.5]	mg/L	
Al 237.313†	43227.0	75.76	0.18%	[5]	mg/L	
As 188.979†	779.7	3.09	0.40%	[1.0000]	mg/L	
B 182.528†	477.2	0.88	0.18%	[1.0000]	mg/L	
Ba 233.527†	118023.6	120.57	0.10%	[1.0000]	mg/L	
Be 313.107†	473505.9	1105.01	0.23%	[0.1000]	mg/L	
Ca 315.886†	1446055.1	1060.40	0.07%	[10.0000]	mg/L	
Cd 228.802†	19955.5	109.50	0.55%	[0.5000]	mg/L	
Co 228.616†	37357.8	159.84	0.43%	[1.0000]	mg/L	
Cr 267.716†	149359.7	116.46	0.08%	[1.0000]	mg/L	

Cu 324.752†	262229.7	1354.24	0.52%	[1.0000]	mg/L
Fe 234.349†	254610.5	308.64	0.12%	[5.0]	mg/L
Fe 238.204†	575814.4	618.82	0.11%	[5.0]	mg/L
K 766.490†	92802.7	733.09	0.79%	[50.0000]	mg/L
Li 670.784†	34937.7	397.88	1.14%	[1]	mg/L
Mg 279.077†	247479.5	252.02	0.10%	[10.0000]	mg/L
Mn 257.610†	899790.3	653.46	0.07%	[1.0000]	mg/L
Mo 202.031†	14414.7	72.28	0.50%	[1.0000]	mg/L
Na 589.592	399723.2	727.56	0.18%	[50.000]	mg/L
Ni 231.604†	31937.8	187.54	0.59%	[1.0000]	mg/L
P 214.914†	13949.6	57.46	0.41%	[10]	mg/L
Pb 220.353†	8601.4	15.16	0.18%	[1.0000]	mg/L
Sb 206.836†	2020.4	10.25	0.51%	[1.0000]	mg/L
Se 196.026†	1668.9	6.97	0.42%	[2.0000]	mg/L
Sn 189.927†	3707.7	7.06	0.19%	[1.0000]	mg/L
Sr 407.771†	2213107.6	2606.04	0.12%	[0.1000]	mg/L
Ti 337.279†	713800.5	192.18	0.03%	[1.0000]	mg/L
Tl 190.801†	1244.6	12.60	1.01%	[1.0000]	mg/L
V 292.402†	245047.7	84.93	0.03%	[1.0000]	mg/L
Zn 213.857†	77621.3	37.26	0.05%	[1.0000]	mg/L

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**Calibration Summary**

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin, Calc Int	-49.5	276500	0.00000	0.999993	
Al 237.313	3	Lin, Calc Int	-20.0	8633	0.00000	0.999980	
As 188.979	3	Lin, Calc Int	0.4	779.6	0.00000	1.000000	
B 182.528	3	Lin, Calc Int	-1.1	477.5	0.00000	0.999985	
Ba 233.527	3	Lin, Calc Int	163.0	117900	0.00000	0.999997	
Be 313.107	3	Lin, Calc Int	-592.9	4728000	0.00000	0.999961	
Ca 315.886	3	Lin, Calc Int	1082.9	144500	0.00000	0.999999	
Cd 228.802	3	Lin, Calc Int	4.3	39870	0.00000	0.999996	
Co 228.616	3	Lin, Calc Int	32.4	37280	0.00000	0.999986	
Cr 267.716	3	Lin, Calc Int	167.7	149100	0.00000	0.999995	
Cu 324.752	3	Lin, Calc Int	266.1	261800	0.00000	0.999993	
Fe 234.349	3	Lin, Calc Int	374.9	50850	0.00000	0.999995	
Fe 238.204	3	Lin, Calc Int	1270.2	115000	0.00000	0.999992	
K 766.490	3	Lin, Calc Int	-172.4	1855	0.00000	0.999968	
Li 670.784	3	Lin, Calc Int	-16.8	34910	0.00000	0.999990	
Mg 279.077	3	Lin, Calc Int	501.7	24720	0.00000	0.999993	
Mn 257.610	3	Lin, Calc Int	2288.1	897700	0.00000	0.999988	
Mo 202.031	3	Lin, Calc Int	-0.6	14400	0.00000	0.999995	
Na 589.592	3	Lin, Calc Int	1202.7	7974	0.00000	0.999984	
Ni 231.604	3	Lin, Calc Int	100.7	31890	0.00000	0.999980	
P 214.914	3	Lin, Calc Int	-24.9	1394	0.00000	0.999973	
Pb 220.353	3	Lin, Calc Int	13.2	8588	0.00000	0.999995	
Sb 206.836	3	Lin, Calc Int	-1.6	2021	0.00000	0.999999	
Se 196.026	3	Lin, Calc Int	0.3	833.8	0.00000	0.999998	
Sn 189.927	3	Lin, Calc Int	27.7	3689	0.00000	0.999907	
Sr 407.771	3	Lin, Calc Int	4930.7	22090000	0.00000	0.999992	
Ti 337.279	3	Lin, Calc Int	-432.0	713300	0.00000	0.999991	
Tl 190.801	3	Lin, Calc Int	-26.6	1247	0.00000	0.998095	
V 292.402	3	Lin, Calc Int	-40.5	244800	0.00000	0.999994	
Zn 213.857	3	Lin, Calc Int	121.2	77510	0.00000	0.999995	

Sequence No.: 5

Sample ID: STD2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 3

Date Collected: 6/24/2006 5:41:30 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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**Replicate Data: STD2**

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	45504.6	46127.5	24.96 mg/L	24.96 mg/L	17:43:07
1	Li 670.784†	17313.8	17590.3	0.5044 mg/L	0.5044 mg/L	17:43:07
1	Na 589.592	199482.3	200657.8	25.01 mg/L	25.01 mg/L	17:43:07
1	Y 371.029	3185789.1	3185789.1	0.975 mg/L		17:43:22
1	Ag 328.068†	66232.2	69736.3	0.2529 mg/L	0.2529 mg/L	17:43:27

1	Al 237.313†	21139.2	21739.1	2.511 mg/L	2.511 mg/L	17:43:27
1	As 188.979†	391.4	397.6	0.5084 mg/L	0.5084 mg/L	17:43:47
1	B 182.528†	236.4	246.7	0.5190 mg/L	0.5190 mg/L	17:43:47
1	Ba 233.527†	58165.5	59844.3	0.5061 mg/L	0.5061 mg/L	17:43:27
1	Be 313.107†	230346.1	234333.4	0.0492 mg/L	0.0492 mg/L	17:43:22
1	Ca 315.886†	709511.8	726795.5	5.025 mg/L	5.025 mg/L	17:43:22
1	Cd 228.802†	9963.1	10094.4	0.2528 mg/L	0.2528 mg/L	17:43:47
1	Co 228.616†	18246.9	18872.7	0.5042 mg/L	0.5042 mg/L	17:43:27
1	Cr 267.716†	74849.1	75585.3	0.5053 mg/L	0.5053 mg/L	17:43:27
1	Cu 324.752†	131974.6	132231.6	0.5048 mg/L	0.5048 mg/L	17:43:27
1	Fe 234.349†	127168.2	129086.3	2.526 mg/L	2.526 mg/L	17:43:27
1	Fe 238.204†	286883.2	293052.5	2.538 mg/L	2.538 mg/L	17:43:27
1	Mg 279.077†	123662.0	126254.5	5.092 mg/L	5.092 mg/L	17:43:27
1	Mn 257.610†	444321.3	453911.2	0.5032 mg/L	0.5032 mg/L	17:43:22
1	Mo 202.031†	7200.7	7357.6	0.5109 mg/L	0.5109 mg/L	17:43:47
1	Ni 231.604†	15926.5	16295.1	0.5084 mg/L	0.5084 mg/L	17:43:27
1	P 214.914†	6847.6	7001.1	5.040 mg/L	5.040 mg/L	17:43:47
1	Pb 220.353†	4115.0	4396.9	0.5116 mg/L	0.5116 mg/L	17:43:47
1	Sb 206.836†	999.5	1017.5	0.4935 mg/L	0.4935 mg/L	17:43:47
1	Se 196.026†	809.4	840.6	1.008 mg/L	1.008 mg/L	17:43:47
1	Sn 189.927†	1989.1	1901.6	0.5086 mg/L	0.5086 mg/L	17:43:47
1	Sr 407.771†	1097618.0	1119139.4	0.0504 mg/L	0.0504 mg/L	17:43:22
1	Ti 337.279†	347456.1	358713.7	0.5035 mg/L	0.5035 mg/L	17:43:27
1	Tl 190.801†	619.3	634.4	0.5328 mg/L	0.5328 mg/L	17:43:47
1	V 292.402†	118110.0	123091.1	0.5102 mg/L	0.5102 mg/L	17:43:27
1	Zn 213.857†	39122.1	39467.8	0.5051 mg/L	0.5051 mg/L	17:43:27
2	K 766.490†	45802.3	46468.1	25.15 mg/L	25.15 mg/L	17:43:12
2	Li 670.784†	17427.9	17720.8	0.5082 mg/L	0.5082 mg/L	17:43:12
2	Na 589.592	199696.9	200872.4	25.04 mg/L	25.04 mg/L	17:43:12
2	Y 371.029	3183407.3	3183407.3	0.974 mg/L		17:43:54
2	Ag 328.068†	66640.3	70206.1	0.2546 mg/L	0.2546 mg/L	17:44:00
2	Al 237.313†	21273.2	21893.0	2.529 mg/L	2.529 mg/L	17:44:00
2	As 188.979†	394.6	401.2	0.5130 mg/L	0.5130 mg/L	17:44:20
2	B 182.528†	236.7	247.2	0.5200 mg/L	0.5200 mg/L	17:44:20
2	Ba 233.527†	58672.7	60409.6	0.5109 mg/L	0.5109 mg/L	17:44:00
2	Be 313.107†	229987.0	234141.5	0.0492 mg/L	0.0492 mg/L	17:43:54
2	Ca 315.886†	708842.1	726652.6	5.024 mg/L	5.024 mg/L	17:43:54
2	Cd 228.802†	10039.5	10180.5	0.2550 mg/L	0.2550 mg/L	17:44:20
2	Co 228.616†	18348.0	18990.5	0.5073 mg/L	0.5073 mg/L	17:44:00
2	Cr 267.716†	75651.9	76466.8	0.5112 mg/L	0.5112 mg/L	17:44:00
2	Cu 324.752†	133612.9	134014.8	0.5116 mg/L	0.5116 mg/L	17:44:00
2	Fe 234.349†	128235.8	130279.9	2.549 mg/L	2.549 mg/L	17:44:00
2	Fe 238.204†	289179.2	295629.7	2.561 mg/L	2.561 mg/L	17:44:00
2	Mg 279.077†	124461.8	127170.4	5.129 mg/L	5.129 mg/L	17:44:00
2	Mn 257.610†	443879.9	453799.1	0.5030 mg/L	0.5030 mg/L	17:43:54
2	Mo 202.031†	7236.0	7399.3	0.5138 mg/L	0.5138 mg/L	17:44:20
2	Ni 231.604†	16071.0	16455.6	0.5135 mg/L	0.5135 mg/L	17:44:00
2	P 214.914†	6889.5	7049.4	5.074 mg/L	5.074 mg/L	17:44:20
2	Pb 220.353†	4129.9	4415.3	0.5138 mg/L	0.5138 mg/L	17:44:20
2	Sb 206.836†	1013.4	1032.6	0.5008 mg/L	0.5008 mg/L	17:44:20
2	Se 196.026†	817.0	849.0	1.018 mg/L	1.018 mg/L	17:44:20
2	Sn 189.927†	2002.5	1916.9	0.5128 mg/L	0.5128 mg/L	17:44:20
2	Sr 407.771†	1097367.3	1119724.5	0.0505 mg/L	0.0505 mg/L	17:43:54
2	Ti 337.279†	350231.9	361830.1	0.5079 mg/L	0.5079 mg/L	17:44:00
2	Tl 190.801†	628.6	644.4	0.5408 mg/L	0.5408 mg/L	17:44:20
2	V 292.402†	119370.9	124476.2	0.5159 mg/L	0.5159 mg/L	17:44:00
2	Zn 213.857†	39457.6	39842.2	0.5099 mg/L	0.5099 mg/L	17:44:00

## Mean Data: STD2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3184598.2	0.974 mg/L	0.0005			
Ag 328.068†	69971.2	0.2537 mg/L	0.00120	0.2537 mg/L	0.00120	0.47%
QC value within limits for Ag 328.068		Recovery =	101.50%			
Al 237.313†	21816.0	2.520 mg/L	0.0125	2.520 mg/L	0.0125	0.50%
QC value within limits for Al 237.313		Recovery =	100.81%			
As 188.979†	399.4	0.5107 mg/L	0.00324	0.5107 mg/L	0.00324	0.64%
QC value within limits for As 188.979		Recovery =	102.14%			
B 182.528†	247.0	0.5195 mg/L	0.00069	0.5195 mg/L	0.00069	0.13%
QC value within limits for B 182.528		Recovery =	103.91%			
Ba 233.527†	60126.9	0.5085 mg/L	0.00339	0.5085 mg/L	0.00339	0.67%

QC value within limits for Ba 233.527	Recovery = 101.70%					
Be 313.107†	234237.4	0.0492 mg/L	0.00003	0.0492 mg/L	0.00003	0.06%
QC value within limits for Be 313.107	Recovery = 98.44%					
Ca 315.886†	726724.1	5.024 mg/L	0.0007	5.024 mg/L	0.0007	0.01%
QC value within limits for Ca 315.886	Recovery = 100.48%					
Cd 228.802†	10137.4	0.2539 mg/L	0.00152	0.2539 mg/L	0.00152	0.60%
QC value within limits for Cd 228.802	Recovery = 101.55%					
Co 228.616†	18931.6	0.5058 mg/L	0.00223	0.5058 mg/L	0.00223	0.44%
QC value within limits for Co 228.616	Recovery = 101.15%					
Cr 267.716†	76026.0	0.5082 mg/L	0.00418	0.5082 mg/L	0.00418	0.82%
QC value within limits for Cr 267.716	Recovery = 101.65%					
Cu 324.752†	133123.2	0.5082 mg/L	0.00482	0.5082 mg/L	0.00482	0.95%
QC value within limits for Cu 324.752	Recovery = 101.65%					
Fe 234.349†	129683.1	2.538 mg/L	0.0166	2.538 mg/L	0.0166	0.65%
QC value within limits for Fe 234.349	Recovery = 101.50%					
Fe 238.204†	294341.1	2.549 mg/L	0.0159	2.549 mg/L	0.0159	0.62%
QC value within limits for Fe 238.204	Recovery = 101.98%					
K 766.490†	46297.8	25.06 mg/L	0.130	25.06 mg/L	0.130	0.52%
QC value within limits for K 766.490	Recovery = 100.22%					
Li 670.784†	17655.6	0.5063 mg/L	0.00264	0.5063 mg/L	0.00264	0.52%
QC value within limits for Li 670.784	Recovery = 101.26%					
Mg 279.077†	126712.5	5.111 mg/L	0.0262	5.111 mg/L	0.0262	0.51%
QC value within limits for Mg 279.077	Recovery = 102.21%					
Mn 257.610†	453855.1	0.5031 mg/L	0.00009	0.5031 mg/L	0.00009	0.02%
QC value within limits for Mn 257.610	Recovery = 100.62%					
Mo 202.031†	7378.4	0.5124 mg/L	0.00205	0.5124 mg/L	0.00205	0.40%
QC value within limits for Mo 202.031	Recovery = 102.47%					
Na 589.592	200765.1	25.03 mg/L	0.019	25.03 mg/L	0.019	0.08%
QC value within limits for Na 589.592	Recovery = 100.10%					
Ni 231.604†	16375.4	0.5109 mg/L	0.00356	0.5109 mg/L	0.00356	0.70%
QC value within limits for Ni 231.604	Recovery = 102.19%					
P 214.914†	7025.2	5.057 mg/L	0.0245	5.057 mg/L	0.0245	0.48%
QC value within limits for P 214.914	Recovery = 101.14%					
Pb 220.353†	4406.1	0.5127 mg/L	0.00152	0.5127 mg/L	0.00152	0.30%
QC value within limits for Pb 220.353	Recovery = 102.54%					
Sb 206.836†	1025.1	0.4971 mg/L	0.00519	0.4971 mg/L	0.00519	1.04%
QC value within limits for Sb 206.836	Recovery = 99.43%					
Se 196.026†	844.8	1.013 mg/L	0.0071	1.013 mg/L	0.0071	0.71%
QC value within limits for Se 196.026	Recovery = 101.29%					
Sn 189.927†	1909.2	0.5107 mg/L	0.00295	0.5107 mg/L	0.00295	0.58%
QC value within limits for Sn 189.927	Recovery = 102.13%					
Sr 407.771†	1119431.9	0.0504 mg/L	0.00002	0.0504 mg/L	0.00002	0.04%
QC value within limits for Sr 407.771	Recovery = 100.89%					
Ti 337.279†	360271.9	0.5057 mg/L	0.00309	0.5057 mg/L	0.00309	0.61%
QC value within limits for Ti 337.279	Recovery = 101.14%					
Tl 190.801†	639.4	0.5368 mg/L	0.00564	0.5368 mg/L	0.00564	1.05%
QC value greater than the upper limit for Tl 190.801	Recovery = 107.36%					
V 292.402†	123783.6	0.5130 mg/L	0.00403	0.5130 mg/L	0.00403	0.78%
QC value within limits for V 292.402	Recovery = 102.60%					
Zn 213.857†	39655.0	0.5075 mg/L	0.00340	0.5075 mg/L	0.00340	0.67%
QC value within limits for Zn 213.857	Recovery = 101.50%					

QC Failed. Continue with analysis.

Sequence No.: 6  
Sample ID: ICV  
Analyst:  
Initial Sample Wt:  
Dilution:

Autosampler Location: 5  
Date Collected: 6/24/2006 5:45:58 PM  
Data Type: Original  
Initial Sample Vol:  
Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	46280.7	46730.0	25.29 mg/L	25.29 mg/L	17:47:33
1	Li 670.784†	17225.5	17427.6	0.4998 mg/L	0.4998 mg/L	17:47:33
1	Na 589.592	199710.4	200885.9	25.04 mg/L	25.04 mg/L	17:47:33
1	Y 371.029	3198843.0	3198843.0	0.979 mg/L		17:47:48
1	Ag 328.068†	67214.1	70462.2	0.2555 mg/L	0.2555 mg/L	17:47:53
1	Al 237.313†	20981.0	21489.0	2.482 mg/L	2.482 mg/L	17:47:53
1	As 188.979†	377.2	381.4	0.4877 mg/L	0.4877 mg/L	17:48:14
1	B 182.528†	232.0	241.3	0.5076 mg/L	0.5076 mg/L	17:48:14

1	Ba 233.527†	57196.3	58610.5	0.4957 mg/L	0.4957 mg/L	17:47:53
1	Be 313.107†	233640.6	236734.9	0.0498 mg/L	0.0498 mg/L	17:47:48
1	Ca 315.886†	716893.9	731367.3	5.056 mg/L	5.056 mg/L	17:47:48
1	Cd 228.802†	10034.9	10126.1	0.2537 mg/L	0.2537 mg/L	17:48:14
1	Co 228.616†	17985.0	18528.7	0.4951 mg/L	0.4951 mg/L	17:47:53
1	Cr 267.716†	75013.2	75439.5	0.5043 mg/L	0.5043 mg/L	17:47:53
1	Cu 324.752†	131911.5	131614.7	0.5024 mg/L	0.5024 mg/L	17:47:53
1	Fe 234.349†	128714.6	130133.7	2.546 mg/L	2.546 mg/L	17:47:53
1	Fe 238.204†	289250.3	294269.8	2.549 mg/L	2.549 mg/L	17:47:53
1	Mg 279.077†	120845.2	122859.0	4.955 mg/L	4.955 mg/L	17:47:53
1	Mn 257.610†	445036.7	452782.0	0.5019 mg/L	0.5019 mg/L	17:47:48
1	Mo 202.031†	7202.2	7328.9	0.5089 mg/L	0.5089 mg/L	17:48:14
1	Ni 231.604†	15915.1	16216.8	0.5060 mg/L	0.5060 mg/L	17:47:53
1	P 214.914†	6702.4	6824.1	4.913 mg/L	4.913 mg/L	17:48:14
1	Pb 220.353†	4080.5	4344.4	0.5055 mg/L	0.5055 mg/L	17:48:14
1	Sb 206.836†	979.6	993.1	0.4815 mg/L	0.4815 mg/L	17:48:14
1	Se 196.026†	818.7	846.7	1.015 mg/L	1.015 mg/L	17:48:14
1	Sn 189.927†	2016.5	1921.3	0.5139 mg/L	0.5139 mg/L	17:48:14
1	Sr 407.771†	1098551.5	1115498.2	0.0503 mg/L	0.0503 mg/L	17:47:48
1	Ti 337.279†	291717.8	300313.8	0.4216 mg/L	0.4216 mg/L	17:47:53
1	Tl 190.801†	607.2	619.5	0.5211 mg/L	0.5211 mg/L	17:48:14
1	V 292.402†	117188.4	121655.1	0.5044 mg/L	0.5044 mg/L	17:47:53
1	Zn 213.857†	39092.5	39273.7	0.5026 mg/L	0.5026 mg/L	17:47:53
2	K 766.490†	46403.6	46580.0	25.21 mg/L	25.21 mg/L	17:47:39
2	Li 670.784†	17448.1	17551.4	0.5033 mg/L	0.5033 mg/L	17:47:39
2	Na 589.592	200812.1	201987.6	25.18 mg/L	25.18 mg/L	17:47:39
2	Y 371.029	3217546.8	3217546.8	0.985 mg/L	0.985 mg/L	17:48:20
2	Ag 328.068†	66925.6	69770.0	0.2530 mg/L	0.2530 mg/L	17:48:26
2	Al 237.313†	20971.1	21354.4	2.467 mg/L	2.467 mg/L	17:48:26
2	As 188.979†	381.7	383.8	0.4908 mg/L	0.4908 mg/L	17:48:46
2	B 182.528†	231.9	239.7	0.5044 mg/L	0.5044 mg/L	17:48:46
2	Ba 233.527†	57391.7	58469.4	0.4945 mg/L	0.4945 mg/L	17:48:26
2	Be 313.107†	235286.0	237018.7	0.0499 mg/L	0.0499 mg/L	17:48:20
2	Ca 315.886†	721200.5	731484.0	5.057 mg/L	5.057 mg/L	17:48:20
2	Cd 228.802†	9992.5	10023.4	0.2511 mg/L	0.2511 mg/L	17:48:46
2	Co 228.616†	18004.3	18441.5	0.4928 mg/L	0.4928 mg/L	17:48:26
2	Cr 267.716†	75105.1	75087.4	0.5019 mg/L	0.5019 mg/L	17:48:26
2	Cu 324.752†	131898.7	130818.3	0.4994 mg/L	0.4994 mg/L	17:48:26
2	Fe 234.349†	128264.3	128912.0	2.522 mg/L	2.522 mg/L	17:48:26
2	Fe 238.204†	290129.2	293444.7	2.542 mg/L	2.542 mg/L	17:48:26
2	Mg 279.077†	121157.5	122458.5	4.938 mg/L	4.938 mg/L	17:48:26
2	Mn 257.610†	447522.6	452663.9	0.5018 mg/L	0.5018 mg/L	17:48:20
2	Mo 202.031†	7109.9	7192.4	0.4994 mg/L	0.4994 mg/L	17:48:46
2	Ni 231.604†	15985.6	16193.9	0.5052 mg/L	0.5052 mg/L	17:48:26
2	P 214.914†	6639.1	6720.0	4.838 mg/L	4.838 mg/L	17:48:46
2	Pb 220.353†	4027.9	4266.7	0.4964 mg/L	0.4964 mg/L	17:48:46
2	Sb 206.836†	976.2	983.8	0.4770 mg/L	0.4770 mg/L	17:48:46
2	Se 196.026†	809.0	832.0	0.9975 mg/L	0.9975 mg/L	17:48:46
2	Sn 189.927†	1986.2	1878.5	0.5023 mg/L	0.5023 mg/L	17:48:46
2	Sr 407.771†	1103449.2	1113948.6	0.0502 mg/L	0.0502 mg/L	17:48:20
2	Ti 337.279†	291750.7	298614.7	0.4192 mg/L	0.4192 mg/L	17:48:26
2	Tl 190.801†	612.7	621.5	0.5226 mg/L	0.5226 mg/L	17:48:46
2	V 292.402†	117643.6	121421.4	0.5033 mg/L	0.5033 mg/L	17:48:26
2	Zn 213.857†	39068.4	39017.1	0.4993 mg/L	0.4993 mg/L	17:48:26

## Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3208194.9	0.982 mg/L	0.0040			0.41%
Ag 328.068†	70116.1	0.2543 mg/L	0.00177	0.2543 mg/L	0.00177	0.70%
QC value within limits for Ag 328.068 Recovery = 101.70%						
Al 237.313†	21421.7	2.475 mg/L	0.0110	2.475 mg/L	0.0110	0.44%
QC value within limits for Al 237.313 Recovery = 98.98%						
As 188.979†	382.6	0.4892 mg/L	0.00215	0.4892 mg/L	0.00215	0.44%
QC value within limits for As 188.979 Recovery = 97.85%						
B 182.528†	240.5	0.5060 mg/L	0.00227	0.5060 mg/L	0.00227	0.45%
QC value within limits for B 182.528 Recovery = 101.20%						
Ba 233.527†	58540.0	0.4951 mg/L	0.00085	0.4951 mg/L	0.00085	0.17%
QC value within limits for Ba 233.527 Recovery = 99.01%						
Be 313.107†	236876.8	0.0499 mg/L	0.00004	0.0499 mg/L	0.00004	0.09%
QC value within limits for Be 313.107 Recovery = 99.74%						



Ca 315.886†	731425.6	5.057 mg/L	0.0006	5.057 mg/L	0.0006	0.01%
QC value within limits for Ca 315.886 Recovery = 101.13%						
Cd 228.802†	10074.7	0.2524 mg/L	0.00184	0.2524 mg/L	0.00184	0.73%
QC value within limits for Cd 228.802 Recovery = 100.95%						
Co 228.616†	18485.1	0.4940 mg/L	0.00165	0.4940 mg/L	0.00165	0.33%
QC value within limits for Co 228.616 Recovery = 98.79%						
Cr 267.716†	75263.5	0.5031 mg/L	0.00167	0.5031 mg/L	0.00167	0.33%
QC value within limits for Cr 267.716 Recovery = 100.62%						
Cu 324.752†	131216.5	0.5009 mg/L	0.00215	0.5009 mg/L	0.00215	0.43%
QC value within limits for Cu 324.752 Recovery = 100.17%						
Fe 234.349†	129522.9	2.534 mg/L	0.0170	2.534 mg/L	0.0170	0.67%
QC value within limits for Fe 234.349 Recovery = 101.38%						
Fe 238.204†	293857.3	2.545 mg/L	0.0051	2.545 mg/L	0.0051	0.20%
QC value within limits for Fe 238.204 Recovery = 101.81%						
K 766.490†	46655.0	25.25 mg/L	0.057	25.25 mg/L	0.057	0.23%
QC value within limits for K 766.490 Recovery = 100.99%						
Li 670.784†	17489.5	0.5015 mg/L	0.00251	0.5015 mg/L	0.00251	0.50%
QC value within limits for Li 670.784 Recovery = 100.31%						
Mg 279.077†	122658.7	4.947 mg/L	0.0115	4.947 mg/L	0.0115	0.23%
QC value within limits for Mg 279.077 Recovery = 98.93%						
Mn 257.610†	452723.0	0.5018 mg/L	0.00009	0.5018 mg/L	0.00009	0.02%
QC value within limits for Mn 257.610 Recovery = 100.37%						
Mo 202.031†	7260.7	0.5042 mg/L	0.00670	0.5042 mg/L	0.00670	1.33%
QC value within limits for Mo 202.031 Recovery = 100.84%						
Na 589.592	201436.7	25.11 mg/L	0.098	25.11 mg/L	0.098	0.39%
QC value within limits for Na 589.592 Recovery = 100.44%						
Ni 231.604†	16205.3	0.5056 mg/L	0.00051	0.5056 mg/L	0.00051	0.10%
QC value within limits for Ni 231.604 Recovery = 101.12%						
P 214.914†	6772.0	4.875 mg/L	0.0528	4.875 mg/L	0.0528	1.08%
QC value within limits for P 214.914 Recovery = 97.51%						
Pb 220.353†	4305.6	0.5010 mg/L	0.00641	0.5010 mg/L	0.00641	1.28%
QC value within limits for Pb 220.353 Recovery = 100.20%						
Sb 206.836†	988.5	0.4792 mg/L	0.00318	0.4792 mg/L	0.00318	0.66%
QC value within limits for Sb 206.836 Recovery = 95.84%						
Se 196.026†	839.4	1.006 mg/L	0.0125	1.006 mg/L	0.0125	1.24%
QC value within limits for Se 196.026 Recovery = 100.63%						
Sn 189.927†	1899.9	0.5081 mg/L	0.00820	0.5081 mg/L	0.00820	1.61%
QC value within limits for Sn 189.927 Recovery = 101.61%						
Sr 407.771†	1114723.4	0.0502 mg/L	0.00005	0.0502 mg/L	0.00005	0.10%
QC value within limits for Sr 407.771 Recovery = 100.46%						
Ti 337.279†	299464.2	0.4204 mg/L	0.00168	0.4204 mg/L	0.00168	0.40%
QC value less than the lower limit for Ti 337.279 Recovery = 84.09%						
Tl 190.801†	620.5	0.5218 mg/L	0.00111	0.5218 mg/L	0.00111	0.21%
QC value within limits for Tl 190.801 Recovery = 104.37%						
V 292.402†	121538.2	0.5038 mg/L	0.00078	0.5038 mg/L	0.00078	0.16%
QC value within limits for V 292.402 Recovery = 100.77%						
Zn 213.857†	39145.4	0.5009 mg/L	0.00234	0.5009 mg/L	0.00234	0.47%
QC value within limits for Zn 213.857 Recovery = 100.19%						
QC Failed. Continue with analysis.						

Sequence No.: 7

Autosampler Location: 1

Sample ID: ICCB

Date Collected: 6/24/2006 5:50:26 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	758.9	209.6	0.2060 mg/L	0.2060 mg/L	17:51:59
1	Li 670.784†	218.6	48.8	0.0019 mg/L	0.0019 mg/L	17:51:59
1	Na 589.592	-633.6	541.9	-0.0829 mg/L	-0.0829 mg/L	17:51:59
1	Y 371.029	3252343.9	3252343.9	0.995 mg/L		17:52:13
1	Ag 328.068†	-1357.9	428.1	0.0017 mg/L	0.0017 mg/L	17:52:18
1	Al 237.313†	-62.1	-8.8	0.0013 mg/L	0.0013 mg/L	17:52:38
1	As 188.979†	5.1	1.2	0.0010 mg/L	0.0010 mg/L	17:52:38
1	B 182.528†	4.1	8.3	0.0196 mg/L	0.0196 mg/L	17:52:38
1	Ba 233.527†	-170.0	4.8	-0.0013 mg/L	-0.0013 mg/L	17:52:38
1	Be 313.107†	1964.0	8.1	0.0001 mg/L	0.0001 mg/L	17:52:18
1	Ca 315.886†	916.1	-131.4	-0.0084 mg/L	-0.0084 mg/L	17:52:18

1	Cd 228.802†	132.1	6.6	0.0000 mg/L	0.0000 mg/L	17:52:38
1	Co 228.616†	-166.5	-13.0	-0.0012 mg/L	-0.0012 mg/L	17:52:38
1	Cr 267.716†	1279.4	87.4	-0.0005 mg/L	-0.0005 mg/L	17:52:18
1	Cu 324.752†	3330.7	193.3	-0.0003 mg/L	-0.0003 mg/L	17:52:18
1	Fe 234.349†	1337.4	-24.4	-0.0078 mg/L	-0.0078 mg/L	17:52:38
1	Fe 238.204†	1220.3	-18.3	-0.0112 mg/L	-0.0112 mg/L	17:52:38
1	Mg 279.077†	589.8	-10.7	-0.0208 mg/L	-0.0208 mg/L	17:52:18
1	Mn 257.610†	1881.8	-1.6	-0.0026 mg/L	-0.0026 mg/L	17:52:18
1	Mo 202.031†	55.5	26.5	0.0019 mg/L	0.0019 mg/L	17:52:38
1	Ni 231.604†	48.1	5.3	-0.0030 mg/L	-0.0030 mg/L	17:52:38
1	P 214.914†	40.0	16.6	0.0298 mg/L	0.0298 mg/L	17:52:38
1	Pb 220.353†	-157.2	17.5	0.0005 mg/L	0.0005 mg/L	17:52:38
1	Sb 206.836†	4.5	-3.2	-0.0008 mg/L	-0.0008 mg/L	17:52:38
1	Se 196.026†	-5.6	4.7	0.0053 mg/L	0.0053 mg/L	17:52:38
1	Sn 189.927†	118.5	-19.8	-0.0129 mg/L	-0.0129 mg/L	17:52:38
1	Sr 407.771†	6831.5	20.8	-0.0002 mg/L	-0.0002 mg/L	17:52:13
1	Ti 337.279†	-2324.2	-57.0	0.0005 mg/L	0.0005 mg/L	17:52:18
1	Tl 190.801†	43.8	43.2	0.0559 mg/L	0.0559 mg/L	17:52:38
1	V 292.402†	-1886.5	33.1	0.0003 mg/L	0.0003 mg/L	17:52:18
1	Zn 213.857†	663.4	1.2	-0.0015 mg/L	-0.0015 mg/L	17:52:38
2	K 766.490†	745.3	198.6	0.2001 mg/L	0.2001 mg/L	17:52:05
2	Li 670.784†	208.4	39.3	0.0016 mg/L	0.0016 mg/L	17:52:05
2	Na 589.592	-593.8	581.7	-0.0779 mg/L	-0.0779 mg/L	17:52:05
2	Y 371.029	3240258.6	3240258.6	0.991 mg/L		17:52:44
2	Ag 328.068†	-1435.9	344.2	0.0014 mg/L	0.0014 mg/L	17:52:49
2	Al 237.313†	-44.7	8.6	0.0033 mg/L	0.0033 mg/L	17:53:10
2	As 188.979†	8.3	4.4	0.0052 mg/L	0.0052 mg/L	17:53:10
2	B 182.528†	-1.2	3.0	0.0087 mg/L	0.0087 mg/L	17:53:10
2	Ba 233.527†	-174.9	-0.8	-0.0014 mg/L	-0.0014 mg/L	17:53:10
2	Be 313.107†	1949.0	0.3	0.0001 mg/L	0.0001 mg/L	17:52:49
2	Ca 315.886†	863.0	-181.5	-0.0087 mg/L	-0.0087 mg/L	17:52:49
2	Cd 228.802†	127.6	2.6	-0.0001 mg/L	-0.0001 mg/L	17:53:10
2	Co 228.616†	-165.5	-12.6	-0.0012 mg/L	-0.0012 mg/L	17:53:10
2	Cr 267.716†	1277.2	90.0	-0.0005 mg/L	-0.0005 mg/L	17:52:49
2	Cu 324.752†	3346.4	221.6	-0.0002 mg/L	-0.0002 mg/L	17:52:49
2	Fe 234.349†	1361.3	4.8	-0.0072 mg/L	-0.0072 mg/L	17:53:10
2	Fe 238.204†	1200.9	-33.4	-0.0113 mg/L	-0.0113 mg/L	17:53:10
2	Mg 279.077†	544.4	-54.2	-0.0225 mg/L	-0.0225 mg/L	17:52:49
2	Mn 257.610†	1911.1	35.0	-0.0025 mg/L	-0.0025 mg/L	17:52:49
2	Mo 202.031†	52.1	23.2	0.0017 mg/L	0.0017 mg/L	17:53:10
2	Ni 231.604†	49.4	6.8	-0.0029 mg/L	-0.0029 mg/L	17:53:10
2	P 214.914†	12.7	-10.7	0.0102 mg/L	0.0102 mg/L	17:53:10
2	Pb 220.353†	-158.4	15.7	0.0003 mg/L	0.0003 mg/L	17:53:10
2	Sb 206.836†	7.8	0.1	0.0009 mg/L	0.0009 mg/L	17:53:10
2	Se 196.026†	-11.7	-1.5	-0.0021 mg/L	-0.0021 mg/L	17:53:10
2	Sn 189.927†	123.9	-14.0	-0.0113 mg/L	-0.0113 mg/L	17:53:10
2	Sr 407.771†	6827.4	42.3	-0.0002 mg/L	-0.0002 mg/L	17:52:44
2	Ti 337.279†	-2211.8	47.7	0.0007 mg/L	0.0007 mg/L	17:52:49
2	Tl 190.801†	33.9	33.3	0.0480 mg/L	0.0480 mg/L	17:53:10
2	V 292.402†	-1833.8	79.3	0.0005 mg/L	0.0005 mg/L	17:52:49
2	Zn 213.857†	669.7	10.1	-0.0014 mg/L	-0.0014 mg/L	17:53:10

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**Mean Data: ICCB**

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3246301.3	0.993 mg/L	0.0026			
Ag 328.068†	386.1	0.0016 mg/L	0.00021	0.0016 mg/L	0.00021	13.60%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	-0.1	0.0023 mg/L	0.00142	0.0023 mg/L	0.00142	60.59%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	2.8	0.0031 mg/L	0.00295	0.0031 mg/L	0.00295	94.50%
QC value within limits for As 188.979 Recovery = Not calculated						
B 182.528†	5.7	0.0142 mg/L	0.00776	0.0142 mg/L	0.00776	54.76%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	2.0	-0.0014 mg/L	0.00003	-0.0014 mg/L	0.00003	2.45%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	4.2	0.0001 mg/L	0.00000	0.0001 mg/L	0.00000	1.02%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.886†	-156.4	-0.0086 mg/L	0.00024	-0.0086 mg/L	0.00024	2.85%
QC value within limits for Ca 315.886 Recovery = Not calculated						
Cd 228.802†	4.6	0.0000 mg/L	0.00009	0.0000 mg/L	0.00009	520.51%



1	Cu 324.752†	16784.4	13766.0	0.0516 mg/L	0.0516 mg/L	17:56:42
1	Fe 234.349†	14593.6	13342.8	0.2545 mg/L	0.2545 mg/L	17:56:42
1	Fe 238.204†	31186.2	30192.7	0.2516 mg/L	0.2516 mg/L	17:56:42
1	Mg 279.077†	13438.2	12943.1	0.5038 mg/L	0.5038 mg/L	17:56:42
1	Mn 257.610†	49382.6	47887.7	0.0508 mg/L	0.0508 mg/L	17:56:42
1	Mo 202.031†	761.8	738.6	0.0513 mg/L	0.0513 mg/L	17:57:02
1	Ni 231.604†	1726.2	1697.2	0.0501 mg/L	0.0501 mg/L	17:56:42
1	P 214.914†	715.8	698.1	0.5186 mg/L	0.5186 mg/L	17:57:02
1	Pb 220.353†	283.9	461.7	0.0523 mg/L	0.0523 mg/L	17:57:02
1	Sb 206.836†	111.7	104.8	0.0516 mg/L	0.0516 mg/L	17:57:02
1	Se 196.026†	66.7	77.5	0.0927 mg/L	0.0927 mg/L	17:57:02
1	Sn 189.927†	335.7	199.5	0.0466 mg/L	0.0466 mg/L	17:57:02
1	Sr 407.771†	122320.0	116461.1	0.0050 mg/L	0.0050 mg/L	17:56:37
1	Ti 337.279†	33459.0	36006.9	0.0511 mg/L	0.0511 mg/L	17:56:42
1	Tl 190.801†	66.1	65.8	0.0744 mg/L	0.0744 mg/L	17:57:02
1	V 292.402†	10383.4	12395.8	0.0515 mg/L	0.0515 mg/L	17:56:42
1	Zn 213.857†	4687.2	4059.6	0.0506 mg/L	0.0506 mg/L	17:57:02
2	K 766.490†	5333.3	4799.5	2.681 mg/L	2.681 mg/L	17:56:29
2	Li 670.784†	1974.1	1810.3	0.0523 mg/L	0.0523 mg/L	17:56:29
2	Na 589.592	20101.3	21276.7	2.517 mg/L	2.517 mg/L	17:56:29
2	Y 371.029	3256386.6	3256386.6	0.996 mg/L		17:57:08
2	Ag 328.068†	5182.3	6993.5	0.0255 mg/L	0.0255 mg/L	17:57:14
2	Al 237.313†	2111.2	2172.5	0.2530 mg/L	0.2530 mg/L	17:57:14
2	As 188.979†	46.2	42.4	0.0538 mg/L	0.0538 mg/L	17:57:34
2	B 182.528†	23.9	28.2	0.0614 mg/L	0.0614 mg/L	17:57:34
2	Ba 233.527†	5940.9	6138.0	0.0507 mg/L	0.0507 mg/L	17:57:14
2	Be 313.107†	25911.3	24039.2	0.0052 mg/L	0.0052 mg/L	17:57:14
2	Ca 315.886†	77003.0	76228.5	0.5203 mg/L	0.5203 mg/L	17:57:14
2	Cd 228.802†	1132.1	1010.1	0.0252 mg/L	0.0252 mg/L	17:57:34
2	Co 228.616†	1776.2	1936.8	0.0510 mg/L	0.0510 mg/L	17:57:34
2	Cr 267.716†	9052.4	7886.8	0.0517 mg/L	0.0517 mg/L	17:57:14
2	Cu 324.752†	16912.0	13819.4	0.0518 mg/L	0.0518 mg/L	17:57:14
2	Fe 234.349†	14663.1	13347.6	0.2546 mg/L	0.2546 mg/L	17:57:14
2	Fe 238.204†	31491.2	30360.1	0.2531 mg/L	0.2531 mg/L	17:57:14
2	Mg 279.077†	13555.0	13000.5	0.5061 mg/L	0.5061 mg/L	17:57:14
2	Mn 257.610†	49814.0	48101.0	0.0510 mg/L	0.0510 mg/L	17:57:14
2	Mo 202.031†	762.0	735.5	0.0511 mg/L	0.0511 mg/L	17:57:34
2	Ni 231.604†	1751.8	1715.1	0.0507 mg/L	0.0507 mg/L	17:57:14
2	P 214.914†	714.9	694.0	0.5157 mg/L	0.5157 mg/L	17:57:34
2	Pb 220.353†	279.7	456.3	0.0517 mg/L	0.0517 mg/L	17:57:34
2	Sb 206.836†	109.9	102.5	0.0504 mg/L	0.0504 mg/L	17:57:34
2	Se 196.026†	76.4	86.9	0.1039 mg/L	0.1039 mg/L	17:57:34
2	Sn 189.927†	322.8	185.0	0.0427 mg/L	0.0427 mg/L	17:57:34
2	Sr 407.771†	122755.3	116353.7	0.0050 mg/L	0.0050 mg/L	17:57:08
2	Ti 337.279†	33934.4	36335.1	0.0515 mg/L	0.0515 mg/L	17:57:14
2	Tl 190.801†	72.7	72.1	0.0794 mg/L	0.0794 mg/L	17:57:34
2	V 292.402†	10579.6	12546.5	0.0521 mg/L	0.0521 mg/L	17:57:14
2	Zn 213.857†	4679.8	4031.2	0.0502 mg/L	0.0502 mg/L	17:57:34

Mean Data: CRI1

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3249200.3	0.994 mg/L	0.0031			0.31%
Ag 328.068†	7030.1	0.0257 mg/L	0.00019	0.0257 mg/L	0.00019	0.73%
QC value within limits for Ag 328.068 Recovery = 102.62%						
Al 237.313†	2188.2	0.2549 mg/L	0.00259	0.2549 mg/L	0.00259	1.02%
QC value within limits for Al 237.313 Recovery = 101.95%						
As 188.979†	42.8	0.0543 mg/L	0.00064	0.0543 mg/L	0.00064	1.17%
QC value within limits for As 188.979 Recovery = 108.57%						
B 182.528†	30.0	0.0652 mg/L	0.00542	0.0652 mg/L	0.00542	8.31%
QC value greater than the upper limit for B 182.528 Recovery = 130.37%						
Ba 233.527†	6150.1	0.0508 mg/L	0.00015	0.0508 mg/L	0.00015	0.29%
QC value within limits for Ba 233.527 Recovery = 101.55%						
Be 313.107†	23956.3	0.0051 mg/L	0.00002	0.0051 mg/L	0.00002	0.48%
QC value within limits for Be 313.107 Recovery = 102.94%						
Ca 315.886†	75967.1	0.5185 mg/L	0.00256	0.5185 mg/L	0.00256	0.49%
QC value within limits for Ca 315.886 Recovery = 103.69%						
Cd 228.802†	1013.5	0.0253 mg/L	0.00012	0.0253 mg/L	0.00012	0.47%
QC value within limits for Cd 228.802 Recovery = 101.08%						
Co 228.616†	1936.9	0.0510 mg/L	0.00001	0.0510 mg/L	0.00001	0.01%
QC value within limits for Co 228.616 Recovery = 101.93%						

Cr 267.716†	7873.9	0.0516 mg/L	0.00012	0.0516 mg/L	0.00012	0.24%
QC value within limits for Cr 267.716 Recovery = 103.26%						
Cu 324.752†	13792.7	0.0517 mg/L	0.00014	0.0517 mg/L	0.00014	0.28%
QC value within limits for Cu 324.752 Recovery = 103.49%						
Fe 234.349†	13345.2	0.2545 mg/L	0.00006	0.2545 mg/L	0.00006	0.02%
QC value within limits for Fe 234.349 Recovery = 101.82%						
Fe 238.204†	30276.4	0.2523 mg/L	0.00103	0.2523 mg/L	0.00103	0.41%
QC value within limits for Fe 238.204 Recovery = 100.93%						
K 766.490†	4784.9	2.673 mg/L	0.0112	2.673 mg/L	0.0112	0.42%
QC value within limits for K 766.490 Recovery = 106.91%						
Li 670.784†	1796.6	0.0519 mg/L	0.00056	0.0519 mg/L	0.00056	1.07%
QC value within limits for Li 670.784 Recovery = 103.90%						
Mg 279.077†	12971.8	0.5050 mg/L	0.00164	0.5050 mg/L	0.00164	0.33%
QC value within limits for Mg 279.077 Recovery = 100.99%						
Mn 257.610†	47994.3	0.0509 mg/L	0.00017	0.0509 mg/L	0.00017	0.33%
QC value within limits for Mn 257.610 Recovery = 101.85%						
Mo 202.031†	737.1	0.0512 mg/L	0.00015	0.0512 mg/L	0.00015	0.30%
QC value within limits for Mo 202.031 Recovery = 102.43%						
Na 589.592	21191.0	2.507 mg/L	0.0152	2.507 mg/L	0.0152	0.61%
QC value within limits for Na 589.592 Recovery = 100.26%						
Ni 231.604†	1706.1	0.0504 mg/L	0.00040	0.0504 mg/L	0.00040	0.79%
QC value within limits for Ni 231.604 Recovery = 100.81%						
P 214.914†	696.1	0.5171 mg/L	0.00207	0.5171 mg/L	0.00207	0.40%
QC value within limits for P 214.914 Recovery = 103.43%						
Pb 220.353†	459.0	0.0520 mg/L	0.00045	0.0520 mg/L	0.00045	0.86%
QC value within limits for Pb 220.353 Recovery = 104.05%						
Sb 206.836†	103.7	0.0510 mg/L	0.00081	0.0510 mg/L	0.00081	1.59%
QC value within limits for Sb 206.836 Recovery = 101.98%						
Se 196.026†	82.2	0.0983 mg/L	0.00796	0.0983 mg/L	0.00796	8.10%
QC value within limits for Se 196.026 Recovery = 98.32%						
Sn 189.927†	192.3	0.0447 mg/L	0.00278	0.0447 mg/L	0.00278	6.22%
QC value within limits for Sn 189.927 Recovery = 89.33%						
Sr 407.771†	116407.4	0.0050 mg/L	0.00000	0.0050 mg/L	0.00000	0.07%
QC value within limits for Sr 407.771 Recovery = 100.91%						
Ti 337.279†	36171.0	0.0513 mg/L	0.00033	0.0513 mg/L	0.00033	0.63%
QC value within limits for Ti 337.279 Recovery = 102.63%						
Tl 190.801†	68.9	0.0769 mg/L	0.00356	0.0769 mg/L	0.00356	4.63%
QC value greater than the upper limit for Tl 190.801 Recovery = 153.73%						
V 292.402†	12471.2	0.0518 mg/L	0.00043	0.0518 mg/L	0.00043	0.83%
QC value within limits for V 292.402 Recovery = 103.66%						
Zn 213.857†	4045.4	0.0504 mg/L	0.00026	0.0504 mg/L	0.00026	0.52%
QC value within limits for Zn 213.857 Recovery = 100.76%						
QC Failed. Continue with analysis.						

Sequence No.: 9

Sample ID: CRI2

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 7

Date Collected: 6/24/2006 5:59:13 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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Replicate Data: CRI2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	2563.9	2044.4	1.195 mg/L	1.195 mg/L	18:00:49
1	Li 670.784†	902.8	743.7	0.0218 mg/L	0.0218 mg/L	18:00:49
1	Na 589.592	7516.0	8691.5	0.9391 mg/L	0.9391 mg/L	18:00:49
1	Y 371.029	3226003.3	3226003.3	0.987 mg/L		18:01:02
1	Ag 328.068†	1027.5	2833.5	0.0104 mg/L	0.0104 mg/L	18:01:08
1	Al 237.313†	843.8	908.4	0.1072 mg/L	0.1072 mg/L	18:01:08
1	As 188.979†	19.1	15.3	0.0191 mg/L	0.0191 mg/L	18:01:28
1	B 182.528†	10.9	15.3	0.0343 mg/L	0.0343 mg/L	18:01:28
1	Ba 233.527†	2274.7	2480.1	0.0197 mg/L	0.0197 mg/L	18:01:28
1	Be 313.107†	11509.3	9694.2	0.0022 mg/L	0.0022 mg/L	18:01:08
1	Ca 315.886†	30860.1	30211.1	0.2017 mg/L	0.2017 mg/L	18:01:08
1	Cd 228.802†	543.4	424.3	0.0105 mg/L	0.0105 mg/L	18:01:28
1	Co 228.616†	610.7	772.9	0.0198 mg/L	0.0198 mg/L	18:01:28
1	Cr 267.716†	4352.8	3211.5	0.0204 mg/L	0.0204 mg/L	18:01:08
1	Cu 324.752†	8453.4	5410.3	0.0197 mg/L	0.0197 mg/L	18:01:08
1	Fe 234.349†	6595.5	5313.3	0.0969 mg/L	0.0969 mg/L	18:01:08
1	Fe 238.204†	13148.1	12075.2	0.0940 mg/L	0.0940 mg/L	18:01:08

1	Mg 279.077†	5668.9	5139.6	0.1878 mg/L	0.1878 mg/L	18:01:08
1	Mn 257.610†	20760.1	19138.6	0.0188 mg/L	0.0188 mg/L	18:01:08
1	Mo 202.031†	332.5	307.5	0.0214 mg/L	0.0214 mg/L	18:01:28
1	Ni 231.604†	721.3	687.7	0.0184 mg/L	0.0184 mg/L	18:01:28
1	P 214.914†	306.7	287.2	0.2238 mg/L	0.2238 mg/L	18:01:28
1	Pb 220.353†	7.6	183.3	0.0199 mg/L	0.0199 mg/L	18:01:28
1	Sb 206.836†	35.1	27.8	0.0141 mg/L	0.0141 mg/L	18:01:28
1	Se 196.026†	25.8	36.5	0.0434 mg/L	0.0434 mg/L	18:01:28
1	Sn 189.927†	207.5	71.3	0.0118 mg/L	0.0118 mg/L	18:01:28
1	Sr 407.771†	53213.4	47064.2	0.0019 mg/L	0.0019 mg/L	18:01:02
1	Ti 337.279†	12097.5	14533.9	0.0210 mg/L	0.0210 mg/L	18:01:08
1	Tl 190.801†	31.4	30.9	0.0462 mg/L	0.0462 mg/L	18:01:28
1	V 292.402†	3026.7	4995.0	0.0209 mg/L	0.0209 mg/L	18:01:08
1	Zn 213.857†	2249.4	1613.4	0.0192 mg/L	0.0192 mg/L	18:01:28
2	K 766.490†	2447.4	1930.2	1.134 mg/L	1.134 mg/L	18:00:54
2	Li 670.784†	911.9	754.6	0.0221 mg/L	0.0221 mg/L	18:00:54
2	Na 589.592	7325.3	8500.8	0.9152 mg/L	0.9152 mg/L	18:00:54
2	Y 371.029	3220068.1	3220068.1	0.985 mg/L		18:01:34
2	Ag 328.068†	853.9	2659.2	0.0098 mg/L	0.0098 mg/L	18:01:39
2	Al 237.313†	828.6	894.6	0.1056 mg/L	0.1056 mg/L	18:01:39
2	As 188.979†	17.9	14.2	0.0177 mg/L	0.0177 mg/L	18:01:59
2	B 182.528†	10.0	14.3	0.0323 mg/L	0.0323 mg/L	18:01:59
2	Ba 233.527†	2285.3	2495.0	0.0198 mg/L	0.0198 mg/L	18:01:59
2	Be 313.107†	11384.0	9588.5	0.0021 mg/L	0.0021 mg/L	18:01:39
2	Ca 315.886†	30963.3	30373.5	0.2028 mg/L	0.2028 mg/L	18:01:39
2	Cd 228.802†	520.7	402.3	0.0100 mg/L	0.0100 mg/L	18:01:59
2	Co 228.616†	611.2	774.6	0.0199 mg/L	0.0199 mg/L	18:01:59
2	Cr 267.716†	4300.4	3166.5	0.0201 mg/L	0.0201 mg/L	18:01:39
2	Cu 324.752†	8410.0	5382.0	0.0196 mg/L	0.0196 mg/L	18:01:39
2	Fe 234.349†	6609.6	5340.0	0.0975 mg/L	0.0975 mg/L	18:01:39
2	Fe 238.204†	13117.2	12068.3	0.0939 mg/L	0.0939 mg/L	18:01:39
2	Mg 279.077†	5675.6	5157.0	0.1885 mg/L	0.1885 mg/L	18:01:39
2	Mn 257.610†	20846.5	19265.0	0.0189 mg/L	0.0189 mg/L	18:01:39
2	Mo 202.031†	311.8	287.2	0.0200 mg/L	0.0200 mg/L	18:01:59
2	Ni 231.604†	716.4	684.1	0.0183 mg/L	0.0183 mg/L	18:01:59
2	P 214.914†	306.4	287.5	0.2240 mg/L	0.2240 mg/L	18:01:59
2	Pb 220.353†	5.4	181.0	0.0196 mg/L	0.0196 mg/L	18:01:59
2	Sb 206.836†	43.7	36.6	0.0185 mg/L	0.0185 mg/L	18:01:59
2	Se 196.026†	21.1	31.7	0.0377 mg/L	0.0377 mg/L	18:01:59
2	Sn 189.927†	193.9	57.9	0.0082 mg/L	0.0082 mg/L	18:01:59
2	Sr 407.771†	53158.8	47108.2	0.0019 mg/L	0.0019 mg/L	18:01:34
2	Ti 337.279†	12099.3	14558.3	0.0210 mg/L	0.0210 mg/L	18:01:39
2	Tl 190.801†	32.2	31.8	0.0469 mg/L	0.0469 mg/L	18:01:59
2	V 292.402†	3009.2	4982.9	0.0208 mg/L	0.0208 mg/L	18:01:39
2	Zn 213.857†	2268.6	1637.0	0.0195 mg/L	0.0195 mg/L	18:01:59

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**Mean Data: CRI2**

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3223035.7	0.986 mg/L	0.0013			0.13%
Ag 328.068†	2746.3	0.0101 mg/L	0.00045	0.0101 mg/L	0.00045	4.40%
QC value within limits for Ag 328.068 Recovery = 101.32%						
Al 237.313†	901.5	0.1064 mg/L	0.00113	0.1064 mg/L	0.00113	1.06%
QC value within limits for Al 237.313 Recovery = 106.41%						
As 188.979†	14.8	0.0184 mg/L	0.00102	0.0184 mg/L	0.00102	5.53%
QC value within limits for As 188.979 Recovery = 92.04%						
B 182.528†	14.8	0.0333 mg/L	0.00144	0.0333 mg/L	0.00144	4.33%
QC value greater than the upper limit for B 182.528 Recovery = 166.46%						
Ba 233.527†	2487.5	0.0197 mg/L	0.00009	0.0197 mg/L	0.00009	0.45%
QC value within limits for Ba 233.527 Recovery = 98.57%						
Be 313.107†	9641.3	0.0021 mg/L	0.00002	0.0021 mg/L	0.00002	0.74%
QC value within limits for Be 313.107 Recovery = 107.29%						
Ca 315.886†	30292.3	0.2022 mg/L	0.00080	0.2022 mg/L	0.00080	0.39%
QC value within limits for Ca 315.886 Recovery = 101.12%						
Cd 228.802†	413.3	0.0103 mg/L	0.00038	0.0103 mg/L	0.00038	3.75%
QC value within limits for Cd 228.802 Recovery = 102.57%						
Co 228.616†	773.8	0.0198 mg/L	0.00003	0.0198 mg/L	0.00003	0.16%
QC value within limits for Co 228.616 Recovery = 99.19%						
Cr 267.716†	3189.0	0.0202 mg/L	0.00021	0.0202 mg/L	0.00021	1.05%
QC value within limits for Cr 267.716 Recovery = 101.21%						
Cu 324.752†	5396.1	0.0196 mg/L	0.00008	0.0196 mg/L	0.00008	0.39%

QC value within limits for Cu 324.752	Recovery = 98.13%					
Fe 234.349†	5326.6	0.0972 mg/L	0.00037	0.0972 mg/L	0.00037	0.38%
QC value within limits for Fe 234.349	Recovery = 97.19%					
Fe 238.204†	12071.8	0.0940 mg/L	0.00004	0.0940 mg/L	0.00004	0.04%
QC value within limits for Fe 238.204	Recovery = 93.97%					
K 766.490†	1987.6	1.165 mg/L	0.0433	1.165 mg/L	0.0433	3.72%
QC value within limits for K 766.490	Recovery = 116.47%					
Li 670.784†	749.1	0.0219 mg/L	0.00022	0.0219 mg/L	0.00022	1.01%
QC value within limits for Li 670.784	Recovery = 109.71%					
Mg 279.077†	5148.3	0.1882 mg/L	0.00050	0.1882 mg/L	0.00050	0.26%
QC value within limits for Mg 279.077	Recovery = 94.08%					
Mn 257.610†	19201.8	0.0188 mg/L	0.00010	0.0188 mg/L	0.00010	0.53%
QC value within limits for Mn 257.610	Recovery = 94.22%					
Mo 202.031†	297.4	0.0207 mg/L	0.00100	0.0207 mg/L	0.00100	4.83%
QC value within limits for Mo 202.031	Recovery = 103.43%					
Na 589.592	8596.1	0.9271 mg/L	0.01691	0.9271 mg/L	0.01691	1.82%
QC value within limits for Na 589.592	Recovery = 92.71%					
Ni 231.604†	685.9	0.0184 mg/L	0.00008	0.0184 mg/L	0.00008	0.44%
QC value within limits for Ni 231.604	Recovery = 91.87%					
P 214.914†	287.3	0.2239 mg/L	0.00015	0.2239 mg/L	0.00015	0.07%
QC value within limits for P 214.914	Recovery = 111.97%					
Pb 220.353†	182.1	0.0197 mg/L	0.00019	0.0197 mg/L	0.00019	0.94%
QC value within limits for Pb 220.353	Recovery = 98.61%					
Sb 206.836†	32.2	0.0163 mg/L	0.00310	0.0163 mg/L	0.00310	18.99%
QC value within limits for Sb 206.836	Recovery = 81.56%					
Se 196.026†	34.1	0.0406 mg/L	0.00401	0.0406 mg/L	0.00401	9.89%
QC value within limits for Se 196.026	Recovery = 101.42%					
Sn 189.927†	64.6	0.0100 mg/L	0.00257	0.0100 mg/L	0.00257	25.68%
QC value less than the lower limit for Sn 189.927	Recovery = 50.13%					
Sr 407.771†	47086.2	0.0019 mg/L	0.00000	0.0019 mg/L	0.00000	0.07%
QC value within limits for Sr 407.771	Recovery = 95.40%					
Ti 337.279†	14546.1	0.0210 mg/L	0.00002	0.0210 mg/L	0.00002	0.12%
QC value within limits for Ti 337.279	Recovery = 104.99%					
Tl 190.801†	31.4	0.0465 mg/L	0.00048	0.0465 mg/L	0.00048	1.03%
QC value greater than the upper limit for Tl 190.801	Recovery = 232.70%					
V 292.402†	4988.9	0.0208 mg/L	0.00005	0.0208 mg/L	0.00005	0.25%
QC value within limits for V 292.402	Recovery = 104.18%					
Zn 213.857†	1625.2	0.0193 mg/L	0.00022	0.0193 mg/L	0.00022	1.12%
QC value within limits for Zn 213.857	Recovery = 96.59%					

QC Failed. Continue with analysis.

Sequence No.: 10  
 Sample ID: CRI3  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 8  
 Date Collected: 6/24/2006 6:03:40 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

Replicate Data: CRI3

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	K 766.490†	1545.8	1007.5	0.6362	mg/L	0.6362	mg/L	18:05:18
1	Li 670.784†	503.5	337.4	0.0101	mg/L	0.0101	mg/L	18:05:18
1	Na 589.592	3255.7	4431.2	0.4049	mg/L	0.4049	mg/L	18:05:18
1	Y 371.029	3237368.3	3237368.3	0.991	mg/L			18:05:32
1	Ag 328.068†	-450.6	1337.6	0.0050	mg/L	0.0050	mg/L	18:05:37
1	Al 237.313†	402.3	459.7	0.0554	mg/L	0.0554	mg/L	18:05:57
1	As 188.979†	14.1	10.2	0.0126	mg/L	0.0126	mg/L	18:05:57
1	B 182.528†	0.9	5.1	0.0130	mg/L	0.0130	mg/L	18:05:57
1	Ba 233.527†	1052.2	1237.8	0.0091	mg/L	0.0091	mg/L	18:05:57
1	Be 313.107†	6648.8	4746.5	0.0011	mg/L	0.0011	mg/L	18:05:37
1	Ca 315.886†	16045.1	15145.6	0.0974	mg/L	0.0974	mg/L	18:05:37
1	Cd 228.802†	314.6	191.4	0.0047	mg/L	0.0047	mg/L	18:05:57
1	Co 228.616†	216.4	372.7	0.0091	mg/L	0.0091	mg/L	18:05:57
1	Cr 267.716†	2783.3	1611.6	0.0097	mg/L	0.0097	mg/L	18:05:37
1	Cu 324.752†	5655.1	2555.3	0.0088	mg/L	0.0088	mg/L	18:05:37
1	Fe 234.349†	3964.7	2634.1	0.0444	mg/L	0.0444	mg/L	18:05:37
1	Fe 238.204†	6972.1	5793.8	0.0394	mg/L	0.0394	mg/L	18:05:37
1	Mg 279.077†	3112.9	2539.1	0.0825	mg/L	0.0825	mg/L	18:05:37
1	Mn 257.610†	11277.3	9491.9	0.0080	mg/L	0.0080	mg/L	18:05:37
1	Mo 202.031†	161.4	133.6	0.0093	mg/L	0.0093	mg/L	18:05:57

1	Ni 231.604†	377.6	338.2	0.0075 mg/L	0.0075 mg/L	18:05:57
1	P 214.914†	158.6	136.6	0.1158 mg/L	0.1158 mg/L	18:05:57
1	Pb 220.353†	-77.9	96.9	0.0098 mg/L	0.0098 mg/L	18:05:57
1	Sb 206.836†	29.5	22.0	0.0115 mg/L	0.0115 mg/L	18:05:57
1	Se 196.026†	7.8	18.2	0.0215 mg/L	0.0215 mg/L	18:05:57
1	Sn 189.927†	148.8	11.3	-0.0044 mg/L	-0.0044 mg/L	18:05:57
1	Sr 407.771†	30055.3	23497.0	0.0008 mg/L	0.0008 mg/L	18:05:32
1	Ti 337.279†	4893.2	7218.1	0.0107 mg/L	0.0107 mg/L	18:05:37
1	Tl 190.801†	11.3	10.6	0.0298 mg/L	0.0298 mg/L	18:05:57
1	V 292.402†	536.1	2470.0	0.0104 mg/L	0.0104 mg/L	18:05:37
1	Zn 213.857†	1491.6	840.4	0.0092 mg/L	0.0092 mg/L	18:05:57
2	K 766.490†	1491.3	951.8	0.6062 mg/L	0.6062 mg/L	18:05:24
2	Li 670.784†	522.0	355.9	0.0107 mg/L	0.0107 mg/L	18:05:24
2	Na 589.592	3001.6	4177.1	0.3730 mg/L	0.3730 mg/L	18:05:24
2	Y 371.029	3238708.8	3238708.8	0.991 mg/L		18:06:03
2	Ag 328.068†	-474.1	1314.1	0.0049 mg/L	0.0049 mg/L	18:06:08
2	Al 237.313†	360.3	417.2	0.0505 mg/L	0.0505 mg/L	18:06:29
2	As 188.979†	13.6	9.7	0.0119 mg/L	0.0119 mg/L	18:06:29
2	B 182.528†	1.0	5.2	0.0132 mg/L	0.0132 mg/L	18:06:29
2	Ba 233.527†	1057.0	1242.3	0.0092 mg/L	0.0092 mg/L	18:06:29
2	Be 313.107†	6656.4	4751.4	0.0011 mg/L	0.0011 mg/L	18:06:08
2	Ca 315.886†	15985.2	15078.5	0.0969 mg/L	0.0969 mg/L	18:06:08
2	Cd 228.802†	339.1	216.0	0.0053 mg/L	0.0053 mg/L	18:06:29
2	Co 228.616†	222.5	378.7	0.0093 mg/L	0.0093 mg/L	18:06:29
2	Cr 267.716†	2755.8	1582.7	0.0095 mg/L	0.0095 mg/L	18:06:08
2	Cu 324.752†	5695.3	2593.5	0.0089 mg/L	0.0089 mg/L	18:06:08
2	Fe 234.349†	3943.1	2610.6	0.0439 mg/L	0.0439 mg/L	18:06:08
2	Fe 238.204†	7026.9	5846.1	0.0398 mg/L	0.0398 mg/L	18:06:08
2	Mg 279.077†	3074.8	2499.4	0.0809 mg/L	0.0809 mg/L	18:06:08
2	Mn 257.610†	11213.6	9422.8	0.0079 mg/L	0.0079 mg/L	18:06:08
2	Mo 202.031†	171.8	144.1	0.0100 mg/L	0.0100 mg/L	18:06:29
2	Ni 231.604†	386.8	347.3	0.0077 mg/L	0.0077 mg/L	18:06:29
2	P 214.914†	170.6	148.7	0.1245 mg/L	0.1245 mg/L	18:06:29
2	Pb 220.353†	-69.5	105.4	0.0108 mg/L	0.0108 mg/L	18:06:29
2	Sb 206.836†	23.7	16.2	0.0086 mg/L	0.0086 mg/L	18:06:29
2	Se 196.026†	7.8	18.2	0.0215 mg/L	0.0215 mg/L	18:06:29
2	Sn 189.927†	140.1	2.4	-0.0068 mg/L	-0.0068 mg/L	18:06:29
2	Sr 407.771†	29769.0	23195.5	0.0008 mg/L	0.0008 mg/L	18:06:03
2	Ti 337.279†	4801.5	7123.6	0.0106 mg/L	0.0106 mg/L	18:06:08
2	Tl 190.801†	15.3	14.5	0.0330 mg/L	0.0330 mg/L	18:06:29
2	V 292.402†	640.9	2575.5	0.0108 mg/L	0.0108 mg/L	18:06:08
2	Zn 213.857†	1475.0	823.0	0.0090 mg/L	0.0090 mg/L	18:06:29

Mean Data: CRI3

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3238038.6	0.991 mg/L	0.0003			0.03%
Ag 328.068†	1325.8	0.0050 mg/L	0.00006	0.0050 mg/L	0.00006	1.20%
QC value within limits for Ag 328.068 Recovery = 99.67%						
Al 237.313†	438.5	0.0530 mg/L	0.00348	0.0530 mg/L	0.00348	6.58%
QC value within limits for Al 237.313 Recovery = 105.91%						
As 188.979†	10.0	0.0123 mg/L	0.00046	0.0123 mg/L	0.00046	3.76%
QC value within limits for As 188.979 Recovery = 122.73%						
B 182.528†	5.2	0.0131 mg/L	0.00008	0.0131 mg/L	0.00008	0.63%
QC value greater than the upper limit for B 182.528 Recovery = 130.95%						
Ba 233.527†	1240.0	0.0091 mg/L	0.00003	0.0091 mg/L	0.00003	0.30%
QC value within limits for Ba 233.527 Recovery = 91.33%						
Be 313.107†	4749.0	0.0011 mg/L	0.00000	0.0011 mg/L	0.00000	0.07%
QC value within limits for Be 313.107 Recovery = 112.00%						
Ca 315.886†	15112.0	0.0971 mg/L	0.00033	0.0971 mg/L	0.00033	0.34%
QC value within limits for Ca 315.886 Recovery = 97.14%						
Cd 228.802†	203.7	0.0050 mg/L	0.00044	0.0050 mg/L	0.00044	8.84%
QC value within limits for Cd 228.802 Recovery = 99.59%						
Co 228.616†	375.7	0.0092 mg/L	0.00011	0.0092 mg/L	0.00011	1.25%
QC value within limits for Co 228.616 Recovery = 91.84%						
Cr 267.716†	1597.1	0.0096 mg/L	0.00014	0.0096 mg/L	0.00014	1.43%
QC value within limits for Cr 267.716 Recovery = 95.77%						
Cu 324.752†	2574.4	0.0088 mg/L	0.00010	0.0088 mg/L	0.00010	1.17%
QC value within limits for Cu 324.752 Recovery = 88.31%						
Fe 234.349†	2622.3	0.0441 mg/L	0.00033	0.0441 mg/L	0.00033	0.74%
QC value within limits for Fe 234.349 Recovery = 88.24%						





1	Sb 206.836†	4.2	-3.2	-0.0007 mg/L	-0.0007 mg/L	18:10:35
1	Se 196.026†	25.6	38.2	0.0455 mg/L	0.0455 mg/L	18:10:35
1	Sn 189.927†	55.9	-77.9	-0.0250 mg/L	-0.0250 mg/L	18:10:35
1	Sr 407.771†	22902.7	18161.4	0.0006 mg/L	0.0006 mg/L	18:10:14
1	Ti 337.279†	1434.6	3844.8	0.0060 mg/L	0.0060 mg/L	18:10:14
1	Tl 190.801†	55.6	59.9	0.0693 mg/L	0.0693 mg/L	18:10:35
1	V 292.402†	583.5	2565.9	-0.0007 mg/L	-0.0007 mg/L	18:10:14
1	Zn 213.857†	2379.2	1932.3	0.0154 mg/L	0.0154 mg/L	18:10:35
2	K 766.490†	701.7	220.0	0.2116 mg/L	0.2116 mg/L	18:09:49
2	Li 670.784†	229.5	81.9	0.0028 mg/L	0.0028 mg/L	18:09:49
2	Na 589.592	-670.7	504.8	-0.0875 mg/L	-0.0875 mg/L	18:09:49
2	Y 371.029	2966790.1	2966790.1	0.908 mg/L		18:10:51
2	Ag 328.068†	-2246.4	-682.1	0.0013 mg/L	0.0013 mg/L	18:10:57
2	Al 237.313†	1941061.8	2138263.2	247.3 mg/L	247.3 mg/L	18:10:51
2	As 188.979†	7.9	4.8	0.0056 mg/L	0.0056 mg/L	18:11:17
2	B 182.528†	1.0	5.3	0.0133 mg/L	0.0133 mg/L	18:11:17
2	Ba 233.527†	52.0	232.9	0.0006 mg/L	0.0006 mg/L	18:11:17
2	Be 313.107†	-413.2	-2420.6	0.0001 mg/L	0.0001 mg/L	18:10:57
2	Ca 315.886†	31111831.1	34270712.9	237.1 mg/L	237.1 mg/L	18:10:44
2	Cd 228.802†	95.2	-21.3	0.0000 mg/L	0.0000 mg/L	18:11:17
2	Co 228.616†	-126.9	14.5	-0.0005 mg/L	-0.0005 mg/L	18:11:17
2	Cr 267.716†	705.4	-421.1	0.0015 mg/L	0.0015 mg/L	18:10:57
2	Cu 324.752†	615.3	-2475.8	0.0057 mg/L	0.0057 mg/L	18:10:57
2	Fe 234.349†	4160189.1	4581358.5	90.10 mg/L	90.10 mg/L	18:10:51
2	Fe 238.204†	9018672.2	9933426.7	86.38 mg/L	86.38 mg/L	18:10:51
2	Mg 279.077†	5171509.4	5696160.5	230.4 mg/L	230.4 mg/L	18:10:51
2	Mn 257.610†	6384.9	5140.9	0.0032 mg/L	0.0032 mg/L	18:10:57
2	Mo 202.031†	208.7	200.6	0.0140 mg/L	0.0140 mg/L	18:11:17
2	Ni 231.604†	64.0	27.6	-0.0023 mg/L	-0.0023 mg/L	18:11:17
2	P 214.914†	-93.7	-126.8	-0.0731 mg/L	-0.0731 mg/L	18:11:17
2	Pb 220.353†	-575.0	-457.9	-0.0098 mg/L	-0.0098 mg/L	18:11:17
2	Sb 206.836†	-5.3	-13.6	-0.0059 mg/L	-0.0059 mg/L	18:11:17
2	Se 196.026†	21.6	34.1	0.0405 mg/L	0.0405 mg/L	18:11:17
2	Sn 189.927†	30.6	-105.2	-0.0324 mg/L	-0.0324 mg/L	18:11:17
2	Sr 407.771†	23297.8	18820.3	0.0006 mg/L	0.0006 mg/L	18:10:57
2	Ti 337.279†	1659.5	4106.5	0.0064 mg/L	0.0064 mg/L	18:10:57
2	Tl 190.801†	56.1	61.0	0.0702 mg/L	0.0702 mg/L	18:11:17
2	V 292.402†	694.4	2693.7	-0.0003 mg/L	-0.0003 mg/L	18:10:57
2	Zn 213.857†	2345.7	1918.6	0.0151 mg/L	0.0151 mg/L	18:11:17

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2980053.0	0.912 mg/L	0.0057			0.63%
Ag 328.068†	-631.1	0.0015 mg/L	0.00024	0.0015 mg/L	0.00024	16.12%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	2131800.7	246.5 mg/L	1.06	246.5 mg/L	1.06	0.43%
QC value within limits for Al 237.313 Recovery = 98.62%						
As 188.979†	7.0	0.0085 mg/L	0.00408	0.0085 mg/L	0.00408	48.03%
QC value within limits for As 188.979 Recovery = Not calculated						
B 182.528†	4.5	0.0118 mg/L	0.00217	0.0118 mg/L	0.00217	18.37%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	233.1	0.0006 mg/L	0.00000	0.0006 mg/L	0.00000	0.50%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	-2369.5	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	8.36%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.886†	34132975.5	236.2 mg/L	1.35	236.2 mg/L	1.35	0.57%
QC value within limits for Ca 315.886 Recovery = 94.48%						
Cd 228.802†	-16.8	0.0000 mg/L	0.00013	0.0000 mg/L	0.00013	282.51%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	7.1	-0.0007 mg/L	0.00028	-0.0007 mg/L	0.00028	40.60%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-336.1	0.0020 mg/L	0.00078	0.0020 mg/L	0.00078	38.84%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-2419.6	0.0059 mg/L	0.00022	0.0059 mg/L	0.00022	3.66%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	4563910.4	89.75 mg/L	0.485	89.75 mg/L	0.485	0.54%
QC value within limits for Fe 234.349 Recovery = 89.75%						
Fe 238.204†	9901209.3	86.10 mg/L	0.396	86.10 mg/L	0.396	0.46%
QC value within limits for Fe 238.204 Recovery = 86.10%						
K 766.490†	165.6	0.1822 mg/L	0.04149	0.1822 mg/L	0.04149	22.76%

QC value within limits for K 766.490	Recovery = Not calculated					
Li 670.784†	47.2	0.0018 mg/L	0.00141	0.0018 mg/L	0.00141	76.84%
QC value within limits for Li 670.784	Recovery = Not calculated					
Mg 279.077†	5690073.9	230.2 mg/L	0.35	230.2 mg/L	0.35	0.15%
QC value within limits for Mg 279.077	Recovery = 92.07%					
Mn 257.610†	5155.2	0.0032 mg/L	0.00002	0.0032 mg/L	0.00002	0.71%
QC value within limits for Mn 257.610	Recovery = Not calculated					
Mo 202.031†	200.3	0.0139 mg/L	0.00003	0.0139 mg/L	0.00003	0.25%
QC value within limits for Mo 202.031	Recovery = Not calculated					
Na 589.592	506.7	-0.0873 mg/L	0.00033	-0.0873 mg/L	0.00033	0.38%
QC value within limits for Na 589.592	Recovery = Not calculated					
Ni 231.604†	38.1	-0.0020 mg/L	0.00047	-0.0020 mg/L	0.00047	23.95%
QC value within limits for Ni 231.604	Recovery = Not calculated					
P 214.914†	-136.4	-0.0800 mg/L	0.00981	-0.0800 mg/L	0.00981	12.26%
QC value within limits for P 214.914	Recovery = Not calculated					
Pb 220.353†	-457.3	-0.0099 mg/L	0.00010	-0.0099 mg/L	0.00010	0.99%
QC value within limits for Pb 220.353	Recovery = Not calculated					
Sb 206.836†	-8.4	-0.0033 mg/L	0.00362	-0.0033 mg/L	0.00362	109.81%
QC value within limits for Sb 206.836	Recovery = Not calculated					
Se 196.026†	36.1	0.0430 mg/L	0.00350	0.0430 mg/L	0.00350	8.13%
QC value within limits for Se 196.026	Recovery = Not calculated					
Sn 189.927†	-91.5	-0.0287 mg/L	0.00523	-0.0287 mg/L	0.00523	18.19%
QC value within limits for Sn 189.927	Recovery = Not calculated					
Sr 407.771†	18490.9	0.0006 mg/L	0.00002	0.0006 mg/L	0.00002	3.44%
QC value within limits for Sr 407.771	Recovery = Not calculated					
Ti 337.279†	3975.7	0.0062 mg/L	0.00026	0.0062 mg/L	0.00026	4.20%
QC value within limits for Ti 337.279	Recovery = Not calculated					
Tl 190.801†	60.4	0.0698 mg/L	0.00062	0.0698 mg/L	0.00062	0.88%
QC value greater than the upper limit for Tl 190.801	Recovery = Not calculated					
V 292.402†	2629.8	-0.0005 mg/L	0.00031	-0.0005 mg/L	0.00031	57.83%
QC value within limits for V 292.402	Recovery = Not calculated					
Zn 213.857†	1925.4	0.0152 mg/L	0.00016	0.0152 mg/L	0.00016	1.08%
QC value within limits for Zn 213.857	Recovery = Not calculated					

QC Failed. Continue with analysis.

Sequence No.: 12  
 Sample ID: ICSAB  
 Analyst:  
 Initial Sample Wt:  
 Dilution:

Autosampler Location: 159  
 Date Collected: 6/24/2006 6:12:56 PM  
 Data Type: Original  
 Initial Sample Vol:  
 Sample Prep Vol:

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 Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	634.3	140.1	0.1685 mg/L	0.1685 mg/L	18:14:32
1	Li 670.784†	169.5	14.4	0.0009 mg/L	0.0009 mg/L	18:14:32
1	Na 589.592	-643.6	531.9	-0.0841 mg/L	-0.0841 mg/L	18:14:32
1	Y 371.029	2990999.4	2990999.4	0.915 mg/L		18:15:00
1	Ag 328.068†	121204.9	134227.2	0.4894 mg/L	0.4894 mg/L	18:15:05
1	Al 237.313†	1960210.4	2141879.1	247.7 mg/L	247.7 mg/L	18:15:00
1	As 188.979†	12.4	9.5	0.0114 mg/L	0.0114 mg/L	18:15:25
1	B 182.528†	9.7	14.9	0.0334 mg/L	0.0334 mg/L	18:15:25
1	Ba 233.527†	24491.5	26936.3	0.2269 mg/L	0.2269 mg/L	18:15:05
1	Be 313.107†	1024274.0	1117208.4	0.2370 mg/L	0.2370 mg/L	18:15:00
1	Ca 315.886†	31569506.2	34493394.9	238.7 mg/L	238.7 mg/L	18:14:52
1	Cd 228.802†	15722.6	17053.1	0.4293 mg/L	0.4293 mg/L	18:15:05
1	Co 228.616†	6844.7	7633.1	0.2038 mg/L	0.2038 mg/L	18:15:25
1	Cr 267.716†	31738.4	33480.9	0.2285 mg/L	0.2285 mg/L	18:15:05
1	Cu 324.752†	54396.4	56282.8	0.2302 mg/L	0.2302 mg/L	18:15:05
1	Fe 234.349†	4189402.8	4576186.1	89.99 mg/L	89.99 mg/L	18:15:00
1	Fe 238.204†	9057390.4	9895320.4	86.05 mg/L	86.05 mg/L	18:14:52
1	Mg 279.077†	5263812.8	5750906.0	232.6 mg/L	232.6 mg/L	18:15:00
1	Mn 257.610†	189576.8	205248.7	0.2261 mg/L	0.2261 mg/L	18:15:05
1	Mo 202.031†	214.8	205.4	0.0143 mg/L	0.0143 mg/L	18:15:25
1	Ni 231.604†	12177.6	13262.9	0.4129 mg/L	0.4129 mg/L	18:15:05
1	P 214.914†	-65.9	-95.5	-0.0507 mg/L	-0.0507 mg/L	18:15:25
1	Pb 220.353†	2864.6	3305.5	0.4284 mg/L	0.4284 mg/L	18:15:25
1	Sb 206.836†	2.4	-5.2	-0.0054 mg/L	-0.0054 mg/L	18:15:25
1	Se 196.026†	27.4	40.2	0.0479 mg/L	0.0479 mg/L	18:15:25
1	Sn 189.927†	35.7	-100.0	-0.0310 mg/L	-0.0310 mg/L	18:15:25

1	Sr 407.771†	22403.7	17635.6	0.0006 mg/L	0.0006 mg/L	18:15:05
1	Ti 337.279†	1404.9	3813.6	0.0060 mg/L	0.0060 mg/L	18:15:05
1	Tl 190.801†	69.1	74.6	0.0828 mg/L	0.0828 mg/L	18:15:25
1	V 292.402†	52013.8	58761.7	0.2285 mg/L	0.2285 mg/L	18:15:05
1	Zn 213.857†	33813.9	36281.4	0.4561 mg/L	0.4561 mg/L	18:15:05
2	K 766.490†	672.3	184.1	0.1922 mg/L	0.1922 mg/L	18:14:38
2	Li 670.784†	200.6	49.0	0.0019 mg/L	0.0019 mg/L	18:14:38
2	Na 589.592	-662.7	512.8	-0.0865 mg/L	-0.0865 mg/L	18:14:38
2	Y 371.029	2980747.1	2980747.1	0.912 mg/L		18:15:44
2	Ag 328.068†	122603.8	136216.4	0.4965 mg/L	0.4965 mg/L	18:15:50
2	Al 237.313†	1946000.4	2133666.0	246.8 mg/L	246.8 mg/L	18:15:44
2	As 188.979†	7.1	3.8	0.0041 mg/L	0.0041 mg/L	18:16:10
2	B 182.528†	3.7	8.2	0.0195 mg/L	0.0195 mg/L	18:16:10
2	Ba 233.527†	24460.4	26994.3	0.2274 mg/L	0.2274 mg/L	18:15:50
2	Be 313.107†	1018344.8	1114557.0	0.2364 mg/L	0.2364 mg/L	18:15:44
2	Ca 315.886†	31404460.8	34431081.6	238.3 mg/L	238.3 mg/L	18:15:37
2	Cd 228.802†	15751.2	17143.6	0.4316 mg/L	0.4316 mg/L	18:15:50
2	Co 228.616†	6909.2	7729.5	0.2064 mg/L	0.2064 mg/L	18:16:10
2	Cr 267.716†	31727.3	33588.0	0.2293 mg/L	0.2293 mg/L	18:15:50
2	Cu 324.752†	55073.3	57229.4	0.2338 mg/L	0.2338 mg/L	18:15:50
2	Fe 234.349†	4169158.2	4569734.4	89.86 mg/L	89.86 mg/L	18:15:44
2	Fe 238.204†	9009680.7	9877050.5	85.89 mg/L	85.89 mg/L	18:15:37
2	Mg 279.077†	5202023.4	5702942.0	230.7 mg/L	230.7 mg/L	18:15:44
2	Mn 257.610†	189391.9	205758.4	0.2267 mg/L	0.2267 mg/L	18:15:50
2	Mo 202.031†	204.3	194.7	0.0136 mg/L	0.0136 mg/L	18:16:10
2	Ni 231.604†	12072.3	13193.2	0.4107 mg/L	0.4107 mg/L	18:15:50
2	P 214.914†	-59.2	-88.5	-0.0456 mg/L	-0.0456 mg/L	18:16:10
2	Pb 220.353†	2890.2	3344.3	0.4327 mg/L	0.4327 mg/L	18:16:10
2	Sb 206.836†	13.8	7.4	0.0008 mg/L	0.0008 mg/L	18:16:10
2	Se 196.026†	20.1	32.3	0.0384 mg/L	0.0384 mg/L	18:16:10
2	Sn 189.927†	47.9	-86.3	-0.0273 mg/L	-0.0273 mg/L	18:16:10
2	Sr 407.771†	22235.9	17535.8	0.0006 mg/L	0.0006 mg/L	18:15:50
2	Ti 337.279†	1484.7	3906.4	0.0061 mg/L	0.0061 mg/L	18:15:50
2	Tl 190.801†	61.3	66.3	0.0761 mg/L	0.0761 mg/L	18:16:10
2	V 292.402†	51953.4	58891.0	0.2291 mg/L	0.2291 mg/L	18:15:50
2	Zn 213.857†	33728.2	36314.5	0.4565 mg/L	0.4565 mg/L	18:15:50

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Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2985873.2	0.914 mg/L	0.0022			0.24%
Ag 328.068†	135221.8	0.4930 mg/L	0.00508	0.4930 mg/L	0.00508	1.03%
QC value within limits for Ag 328.068 Recovery = 98.59%						
Al 237.313†	2137772.5	247.2 mg/L	0.67	247.2 mg/L	0.67	0.27%
QC value within limits for Al 237.313 Recovery = 98.89%						
As 188.979†	6.7	0.0077 mg/L	0.00522	0.0077 mg/L	0.00522	67.42%
QC value within limits for As 188.979 Recovery = Not calculated						
B 182.528†	11.5	0.0265 mg/L	0.00983	0.0265 mg/L	0.00983	37.15%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	26965.3	0.2272 mg/L	0.00035	0.2272 mg/L	0.00035	0.15%
QC value within limits for Ba 233.527 Recovery = 90.87%						
Be 313.107†	1115882.7	0.2367 mg/L	0.00040	0.2367 mg/L	0.00040	0.17%
QC value within limits for Be 313.107 Recovery = 94.69%						
Ca 315.886†	34462238.2	238.5 mg/L	0.30	238.5 mg/L	0.30	0.13%
QC value within limits for Ca 315.886 Recovery = 95.39%						
Cd 228.802†	17098.4	0.4304 mg/L	0.00164	0.4304 mg/L	0.00164	0.38%
QC value within limits for Cd 228.802 Recovery = 86.08%						
Co 228.616†	7681.3	0.2051 mg/L	0.00183	0.2051 mg/L	0.00183	0.89%
QC value within limits for Co 228.616 Recovery = 82.03%						
Cr 267.716†	33534.4	0.2289 mg/L	0.00050	0.2289 mg/L	0.00050	0.22%
QC value within limits for Cr 267.716 Recovery = 91.56%						
Cu 324.752†	56756.1	0.2320 mg/L	0.00254	0.2320 mg/L	0.00254	1.10%
QC value within limits for Cu 324.752 Recovery = 92.79%						
Fe 234.349†	4572960.2	89.93 mg/L	0.090	89.93 mg/L	0.090	0.10%
QC value within limits for Fe 234.349 Recovery = 89.93%						
Fe 238.204†	9886185.4	85.97 mg/L	0.112	85.97 mg/L	0.112	0.13%
QC value within limits for Fe 238.204 Recovery = 85.97%						
K 766.490†	162.1	0.1804 mg/L	0.01678	0.1804 mg/L	0.01678	9.30%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 670.784†	31.7	0.0014 mg/L	0.00070	0.0014 mg/L	0.00070	50.55%
QC value within limits for Li 670.784 Recovery = Not calculated						

Mg	279.077†	5726924.0	231.7 mg/L	1.37	231.7 mg/L	1.37	0.59%
	QC value within limits for Mg 279.077 Recovery = 92.66%						
Mn	257.610†	205503.6	0.2264 mg/L	0.00040	0.2264 mg/L	0.00040	0.18%
	QC value within limits for Mn 257.610 Recovery = 90.57%						
Mo	202.031†	200.0	0.0139 mg/L	0.00053	0.0139 mg/L	0.00053	3.78%
	QC value within limits for Mo 202.031 Recovery = Not calculated						
Na	589.592	522.3	-0.0853 mg/L	0.00169	-0.0853 mg/L	0.00169	1.98%
	QC value within limits for Na 589.592 Recovery = Not calculated						
Ni	231.604†	13228.0	0.4118 mg/L	0.00154	0.4118 mg/L	0.00154	0.37%
	QC value within limits for Ni 231.604 Recovery = 82.36%						
P	214.914†	-92.0	-0.0481 mg/L	0.00358	-0.0481 mg/L	0.00358	7.44%
	QC value within limits for P 214.914 Recovery = Not calculated						
Pb	220.353†	3324.9	0.4305 mg/L	0.00307	0.4305 mg/L	0.00307	0.71%
	QC value within limits for Pb 220.353 Recovery = 86.10%						
Sb	206.836†	1.1	-0.0023 mg/L	0.00438	-0.0023 mg/L	0.00438	194.37%
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Se	196.026†	36.2	0.0431 mg/L	0.00668	0.0431 mg/L	0.00668	15.48%
	QC value greater than the upper limit for Se 196.026 Recovery = Not calculated						
Sn	189.927†	-93.2	-0.0292 mg/L	0.00260	-0.0292 mg/L	0.00260	8.93%
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr	407.771†	17585.7	0.0006 mg/L	0.00000	0.0006 mg/L	0.00000	0.56%
	QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti	337.279†	3860.0	0.0060 mg/L	0.00009	0.0060 mg/L	0.00009	1.53%
	QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl	190.801†	70.5	0.0794 mg/L	0.00470	0.0794 mg/L	0.00470	5.92%
	QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated						
V	292.402†	58826.4	0.2288 mg/L	0.00038	0.2288 mg/L	0.00038	0.16%
	QC value within limits for V 292.402 Recovery = 91.52%						
Zn	213.857†	36298.0	0.4563 mg/L	0.00032	0.4563 mg/L	0.00032	0.07%
	QC value within limits for Zn 213.857 Recovery = 91.26%						
QC Failed. Continue with analysis.							

Sequence No.: 13

Autosampler Location: 3

Sample ID: CCV

Date Collected: 6/24/2006 6:17:49 PM

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

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Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib.	Sample Conc. Units	Analysis Time
1	K 766.490†	44915.0	45048.2	24.38 mg/L		24.38 mg/L	18:19:25
1	Li 670.784†	17222.3	17314.5	0.4965 mg/L		0.4965 mg/L	18:19:25
1	Na 589.592	199748.1	200923.6	25.05 mg/L		25.05 mg/L	18:19:25
1	Y 371.029	3218941.1	3218941.1	0.985 mg/L			18:19:40
1	Ag 328.068†	66055.8	68857.4	0.2497 mg/L		0.2497 mg/L	18:19:45
1	Al 237.313†	21153.6	21530.4	2.487 mg/L		2.487 mg/L	18:19:45
1	As 188.979†	383.6	385.4	0.4928 mg/L		0.4928 mg/L	18:20:05
1	B 182.528†	222.6	230.3	0.4845 mg/L		0.4845 mg/L	18:20:05
1	Ba 233.527†	58056.5	59119.1	0.5000 mg/L		0.5000 mg/L	18:19:45
1	Be 313.107†	231126.7	232692.3	0.0489 mg/L		0.0489 mg/L	18:19:40
1	Ca 315.886†	713806.4	723659.5	5.003 mg/L		5.003 mg/L	18:19:40
1	Cd 228.802†	9925.7	9951.1	0.2493 mg/L		0.2493 mg/L	18:20:05
1	Co 228.616†	18127.8	18559.0	0.4958 mg/L		0.4958 mg/L	18:19:45
1	Cr 267.716†	74718.6	74662.0	0.4991 mg/L		0.4991 mg/L	18:19:45
1	Cu 324.752†	131970.4	130833.1	0.4995 mg/L		0.4995 mg/L	18:19:45
1	Fe 234.349†	127374.6	127952.3	2.504 mg/L		2.504 mg/L	18:19:45
1	Fe 238.204†	287105.3	290246.9	2.514 mg/L		2.514 mg/L	18:19:45
1	Mg 279.077†	123290.1	124570.4	5.024 mg/L		5.024 mg/L	18:19:45
1	Mn 257.610†	445674.0	450590.1	0.4995 mg/L		0.4995 mg/L	18:19:40
1	Mo 202.031†	7118.2	7197.7	0.4998 mg/L		0.4998 mg/L	18:20:05
1	Ni 231.604†	15917.8	16118.0	0.5029 mg/L		0.5029 mg/L	18:19:45
1	P 214.914†	6784.3	6864.5	4.942 mg/L		4.942 mg/L	18:20:05
1	Pb 220.353†	4082.1	4320.0	0.5027 mg/L		0.5027 mg/L	18:20:05
1	Sb 206.836†	1002.5	1010.1	0.4899 mg/L		0.4899 mg/L	18:20:05
1	Se 196.026†	805.2	827.8	0.9925 mg/L		0.9925 mg/L	18:20:05
1	Sn 189.927†	1980.8	1872.2	0.5006 mg/L		0.5006 mg/L	18:20:05
1	Sr 407.771†	1098394.6	1108331.3	0.0499 mg/L		0.0499 mg/L	18:19:40
1	Ti 337.279†	347471.6	355058.5	0.4984 mg/L		0.4984 mg/L	18:19:45
1	Tl 190.801†	539.3	546.6	0.4624 mg/L		0.4624 mg/L	18:20:05

1	V 292.402†	118215.6	121950.4	0.5053 mg/L	0.5053 mg/L	18:19:45
1	Zn 213.857†	38908.7	38837.8	0.4970 mg/L	0.4970 mg/L	18:19:45
2	K 766.490†	44793.6	45062.6	24.39 mg/L	24.39 mg/L	18:19:30
2	Li 670.784†	17230.1	17375.4	0.4983 mg/L	0.4983 mg/L	18:19:30
2	Na 589.592	197625.9	198801.4	24.78 mg/L	24.78 mg/L	18:19:30
2	Y 371.029	3209226.9	3209226.9	0.982 mg/L		18:20:12
2	Ag 328.068†	65589.5	68585.7	0.2487 mg/L	0.2487 mg/L	18:20:18
2	Al 237.313†	20847.2	21283.4	2.459 mg/L	2.459 mg/L	18:20:18
2	As 188.979†	384.4	387.5	0.4955 mg/L	0.4955 mg/L	18:20:38
2	B 182.528†	225.1	233.4	0.4912 mg/L	0.4912 mg/L	18:20:38
2	Ba 233.527†	57240.6	58466.6	0.4944 mg/L	0.4944 mg/L	18:20:18
2	Be 313.107†	230422.7	232685.7	0.0489 mg/L	0.0489 mg/L	18:20:12
2	Ca 315.886†	708624.2	720576.0	4.981 mg/L	4.981 mg/L	18:20:12
2	Cd 228.802†	9888.5	9943.7	0.2490 mg/L	0.2490 mg/L	18:20:38
2	Co 228.616†	17898.5	18381.2	0.4910 mg/L	0.4910 mg/L	18:20:18
2	Cr 267.716†	73580.8	73732.9	0.4929 mg/L	0.4929 mg/L	18:20:18
2	Cu 324.752†	129996.4	129228.4	0.4933 mg/L	0.4933 mg/L	18:20:18
2	Fe 234.349†	125688.5	126626.7	2.478 mg/L	2.478 mg/L	18:20:18
2	Fe 238.204†	283040.0	286989.4	2.486 mg/L	2.486 mg/L	18:20:18
2	Mg 279.077†	121445.1	123070.4	4.963 mg/L	4.963 mg/L	18:20:18
2	Mn 257.610†	444111.3	450368.4	0.4992 mg/L	0.4992 mg/L	18:20:12
2	Mo 202.031†	7082.9	7183.6	0.4988 mg/L	0.4988 mg/L	18:20:38
2	Ni 231.604†	15622.7	15866.4	0.4950 mg/L	0.4950 mg/L	18:20:18
2	P 214.914†	6729.5	6829.5	4.917 mg/L	4.917 mg/L	18:20:38
2	Pb 220.353†	4071.6	4321.8	0.5029 mg/L	0.5029 mg/L	18:20:38
2	Sb 206.836†	996.2	1006.7	0.4884 mg/L	0.4884 mg/L	18:20:38
2	Se 196.026†	795.2	820.0	0.9832 mg/L	0.9832 mg/L	18:20:38
2	Sn 189.927†	1960.5	1857.6	0.4967 mg/L	0.4967 mg/L	18:20:38
2	Sr 407.771†	1097923.0	1111226.6	0.0501 mg/L	0.0501 mg/L	18:20:12
2	Ti 337.279†	343305.1	351883.4	0.4939 mg/L	0.4939 mg/L	18:20:18
2	Tl 190.801†	559.6	569.0	0.4804 mg/L	0.4804 mg/L	18:20:38
2	V 292.402†	116189.0	120249.9	0.4984 mg/L	0.4984 mg/L	18:20:18
2	Zn 213.857†	38337.5	38375.6	0.4911 mg/L	0.4911 mg/L	18:20:18

## Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3214084.0	0.983 mg/L		0.0021			0.21%
Ag 328.068†	68721.6	0.2492 mg/L		0.00070	0.2492 mg/L	0.00070	0.28%
QC value within limits for Ag 328.068		Recovery = 99.68%					
Al 237.313†	21406.9	2.473 mg/L		0.0202	2.473 mg/L	0.0202	0.82%
QC value within limits for Al 237.313		Recovery = 98.92%					
As 188.979†	386.5	0.4941 mg/L		0.00188	0.4941 mg/L	0.00188	0.38%
QC value within limits for As 188.979		Recovery = 98.83%					
B 182.528†	231.9	0.4879 mg/L		0.00473	0.4879 mg/L	0.00473	0.97%
QC value within limits for B 182.528		Recovery = 97.57%					
Ba 233.527†	58792.8	0.4972 mg/L		0.00391	0.4972 mg/L	0.00391	0.79%
QC value within limits for Ba 233.527		Recovery = 99.44%					
Be 313.107†	232689.0	0.0489 mg/L		0.00000	0.0489 mg/L	0.00000	0.00%
QC value within limits for Be 313.107		Recovery = 97.80%					
Ca 315.886†	722117.8	4.992 mg/L		0.0151	4.992 mg/L	0.0151	0.30%
QC value within limits for Ca 315.886		Recovery = 99.84%					
Cd 228.802†	9947.4	0.2491 mg/L		0.00016	0.2491 mg/L	0.00016	0.06%
QC value within limits for Cd 228.802		Recovery = 99.66%					
Co 228.616†	18470.1	0.4934 mg/L		0.00336	0.4934 mg/L	0.00336	0.68%
QC value within limits for Co 228.616		Recovery = 98.68%					
Cr 267.716†	74197.5	0.4960 mg/L		0.00440	0.4960 mg/L	0.00440	0.89%
QC value within limits for Cr 267.716		Recovery = 99.19%					
Cu 324.752†	130030.7	0.4964 mg/L		0.00434	0.4964 mg/L	0.00434	0.87%
QC value within limits for Cu 324.752		Recovery = 99.28%					
Fe 234.349†	127289.5	2.491 mg/L		0.0184	2.491 mg/L	0.0184	0.74%
QC value within limits for Fe 234.349		Recovery = 99.62%					
Fe 238.204†	288618.1	2.500 mg/L		0.0200	2.500 mg/L	0.0200	0.80%
QC value within limits for Fe 238.204		Recovery = 99.99%					
K 766.490†	45055.4	24.39 mg/L		0.005	24.39 mg/L	0.005	0.02%
QC value within limits for K 766.490		Recovery = 97.54%					
Li 670.784†	17344.9	0.4974 mg/L		0.00123	0.4974 mg/L	0.00123	0.25%
QC value within limits for Li 670.784		Recovery = 99.48%					
Mg 279.077†	123820.4	4.994 mg/L		0.0429	4.994 mg/L	0.0429	0.86%
QC value within limits for Mg 279.077		Recovery = 99.87%					
Mn 257.610†	450479.3	0.4993 mg/L		0.00018	0.4993 mg/L	0.00018	0.04%

Mo	202.031†	7190.6	0.4993 mg/L	0.00069	0.4993 mg/L	0.00069	0.14%
	QC value within limits for Mo	202.031	Recovery = 99.86%				
Na	589.592	199862.5	24.91 mg/L	0.188	24.91 mg/L	0.188	0.76%
	QC value within limits for Na	589.592	Recovery = 99.65%				
Ni	231.604†	15992.2	0.4989 mg/L	0.00558	0.4989 mg/L	0.00558	1.12%
	QC value within limits for Ni	231.604	Recovery = 99.78%				
P	214.914†	6847.0	4.929 mg/L	0.0178	4.929 mg/L	0.0178	0.36%
	QC value within limits for P	214.914	Recovery = 98.58%				
Pb	220.353†	4320.9	0.5028 mg/L	0.00015	0.5028 mg/L	0.00015	0.03%
	QC value within limits for Pb	220.353	Recovery = 100.55%				
Sb	206.836†	1008.4	0.4891 mg/L	0.00111	0.4891 mg/L	0.00111	0.23%
	QC value within limits for Sb	206.836	Recovery = 97.83%				
Se	196.026†	823.9	0.9878 mg/L	0.00660	0.9878 mg/L	0.00660	0.67%
	QC value within limits for Se	196.026	Recovery = 98.78%				
Sn	189.927†	1864.9	0.4986 mg/L	0.00280	0.4986 mg/L	0.00280	0.56%
	QC value within limits for Sn	189.927	Recovery = 99.73%				
Sr	407.771†	1109779.0	0.0500 mg/L	0.00009	0.0500 mg/L	0.00009	0.19%
	QC value within limits for Sr	407.771	Recovery = 100.02%				
Ti	337.279†	353470.9	0.4962 mg/L	0.00315	0.4962 mg/L	0.00315	0.63%
	QC value within limits for Ti	337.279	Recovery = 99.23%				
Tl	190.801†	557.8	0.4714 mg/L	0.01271	0.4714 mg/L	0.01271	2.70%
	QC value within limits for Tl	190.801	Recovery = 94.28%				
V	292.402†	121100.2	0.5019 mg/L	0.00491	0.5019 mg/L	0.00491	0.98%
	QC value within limits for V	292.402	Recovery = 100.37%				
Zn	213.857†	38606.7	0.4941 mg/L	0.00419	0.4941 mg/L	0.00419	0.85%
	QC value within limits for Zn	213.857	Recovery = 98.81%				

All analyte(s) passed QC.

Sequence No.: 14

Sample ID: ICCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 6/24/2006 6:22:16 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc. Units	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	648.4	102.3	0.1481 mg/L	0.1481 mg/L	0.1481 mg/L	18:23:49
1	Li 670.784†	151.4	-17.9	0.0000 mg/L	0.0000 mg/L	0.0000 mg/L	18:23:49
1	Na 589.592	-815.1	360.4	-0.1056 mg/L	-0.1056 mg/L	-0.1056 mg/L	18:23:49
1	Y 371.029	3233422.1	3233422.1	0.989 mg/L	0.989 mg/L	0.989 mg/L	18:24:02
1	Ag 328.068†	-1359.2	418.7	0.0017 mg/L	0.0017 mg/L	0.0017 mg/L	18:24:07
1	Al 237.313†	-56.7	-3.7	0.0019 mg/L	0.0019 mg/L	0.0019 mg/L	18:24:28
1	As 188.979†	4.2	0.3	-0.0001 mg/L	-0.0001 mg/L	-0.0001 mg/L	18:24:28
1	B 182.528†	-1.7	2.5	0.0076 mg/L	0.0076 mg/L	0.0076 mg/L	18:24:28
1	Ba 233.527†	-164.9	9.0	-0.0013 mg/L	-0.0013 mg/L	-0.0013 mg/L	18:24:28
1	Be 313.107†	1930.8	-13.9	0.0001 mg/L	0.0001 mg/L	0.0001 mg/L	18:24:07
1	Ca 315.886†	819.6	-223.4	-0.0090 mg/L	-0.0090 mg/L	-0.0090 mg/L	18:24:07
1	Cd 228.802†	120.0	-4.9	-0.0002 mg/L	-0.0002 mg/L	-0.0002 mg/L	18:24:28
1	Co 228.616†	-152.2	0.4	-0.0009 mg/L	-0.0009 mg/L	-0.0009 mg/L	18:24:28
1	Cr 267.716†	1227.5	42.5	-0.0008 mg/L	-0.0008 mg/L	-0.0008 mg/L	18:24:07
1	Cu 324.752†	3107.5	-12.7	-0.0011 mg/L	-0.0011 mg/L	-0.0011 mg/L	18:24:07
1	Fe 234.349†	1400.5	47.3	-0.0064 mg/L	-0.0064 mg/L	-0.0064 mg/L	18:24:28
1	Fe 238.204†	1339.0	108.8	-0.0101 mg/L	-0.0101 mg/L	-0.0101 mg/L	18:24:28
1	Mg 279.077†	630.7	34.2	-0.0189 mg/L	-0.0189 mg/L	-0.0189 mg/L	18:24:07
1	Mn 257.610†	1851.1	-21.6	-0.0026 mg/L	-0.0026 mg/L	-0.0026 mg/L	18:24:07
1	Mo 202.031†	58.3	29.7	0.0021 mg/L	0.0021 mg/L	0.0021 mg/L	18:24:28
1	Ni 231.604†	59.8	17.5	-0.0026 mg/L	-0.0026 mg/L	-0.0026 mg/L	18:24:28
1	P 214.914†	16.8	-6.6	0.0131 mg/L	0.0131 mg/L	0.0131 mg/L	18:24:28
1	Pb 220.353†	-162.4	11.4	-0.0002 mg/L	-0.0002 mg/L	-0.0002 mg/L	18:24:28
1	Sb 206.836†	8.6	0.9	0.0013 mg/L	0.0013 mg/L	0.0013 mg/L	18:24:28
1	Se 196.026†	-4.5	5.8	0.0066 mg/L	0.0066 mg/L	0.0066 mg/L	18:24:28
1	Sn 189.927†	111.8	-25.9	-0.0145 mg/L	-0.0145 mg/L	-0.0145 mg/L	18:24:28
1	Sr 407.771†	6637.3	-135.3	-0.0002 mg/L	-0.0002 mg/L	-0.0002 mg/L	18:24:02
1	Ti 337.279†	-2178.4	76.7	0.0007 mg/L	0.0007 mg/L	0.0007 mg/L	18:24:07
1	Tl 190.801†	28.0	27.5	0.0433 mg/L	0.0433 mg/L	0.0433 mg/L	18:24:28
1	V 292.402†	-1882.3	26.3	0.0003 mg/L	0.0003 mg/L	0.0003 mg/L	18:24:07
1	Zn 213.857†	652.9	-5.4	-0.0016 mg/L	-0.0016 mg/L	-0.0016 mg/L	18:24:28
2	K 766.490†	640.6	88.8	0.1409 mg/L	0.1409 mg/L	0.1409 mg/L	18:23:54

2	Li 670.784†	164.3	-6.3	0.0003 mg/L	0.0003 mg/L	18:23:54
2	Na 589.592	-820.7	354.7	-0.1063 mg/L	-0.1063 mg/L	18:23:54
2	Y 371.029	3261772.7	3261772.7	0.998 mg/L		18:24:33
2	Ag 328.068†	-1585.7	203.7	0.0009 mg/L	0.0009 mg/L	18:24:39
2	Al 237.313†	-57.3	-3.8	0.0019 mg/L	0.0019 mg/L	18:24:59
2	As 188.979†	7.1	3.1	0.0035 mg/L	0.0035 mg/L	18:24:59
2	B 182.528†	0.6	4.8	0.0123 mg/L	0.0123 mg/L	18:24:59
2	Ba 233.527†	-167.5	7.8	-0.0013 mg/L	-0.0013 mg/L	18:24:59
2	Be 313.107†	1782.1	-179.9	0.0001 mg/L	0.0001 mg/L	18:24:39
2	Ca 315.886†	1055.2	5.4	-0.0075 mg/L	-0.0075 mg/L	18:24:39
2	Cd 228.802†	134.3	8.4	0.0001 mg/L	0.0001 mg/L	18:24:59
2	Co 228.616†	-164.1	-10.2	-0.0011 mg/L	-0.0011 mg/L	18:24:59
2	Cr 267.716†	1296.9	101.2	-0.0004 mg/L	-0.0004 mg/L	18:24:39
2	Cu 324.752†	3022.7	-124.9	-0.0015 mg/L	-0.0015 mg/L	18:24:39
2	Fe 234.349†	1353.4	-12.3	-0.0076 mg/L	-0.0076 mg/L	18:24:59
2	Fe 238.204†	1269.0	26.9	-0.0108 mg/L	-0.0108 mg/L	18:24:59
2	Mg 279.077†	613.7	11.6	-0.0199 mg/L	-0.0199 mg/L	18:24:39
2	Mn 257.610†	1820.0	-69.0	-0.0026 mg/L	-0.0026 mg/L	18:24:39
2	Mo 202.031†	40.7	11.6	0.0008 mg/L	0.0008 mg/L	18:24:59
2	Ni 231.604†	44.5	1.6	-0.0031 mg/L	-0.0031 mg/L	18:24:59
2	P 214.914†	20.5	-3.0	0.0157 mg/L	0.0157 mg/L	18:24:59
2	Pb 220.353†	-169.3	5.9	-0.0008 mg/L	-0.0008 mg/L	18:24:59
2	Sb 206.836†	2.6	-5.1	-0.0017 mg/L	-0.0017 mg/L	18:24:59
2	Se 196.026†	-6.9	3.4	0.0037 mg/L	0.0037 mg/L	18:24:59
2	Sn 189.927†	104.8	-33.9	-0.0167 mg/L	-0.0167 mg/L	18:24:59
2	Sr 407.771†	6515.6	-315.5	-0.0002 mg/L	-0.0002 mg/L	18:24:33
2	Ti 337.279†	-2162.2	112.1	0.0008 mg/L	0.0008 mg/L	18:24:39
2	Tl 190.801†	20.7	19.9	0.0372 mg/L	0.0372 mg/L	18:24:59
2	V 292.402†	-1781.4	144.0	0.0008 mg/L	0.0008 mg/L	18:24:39
2	Zn 213.857†	642.1	-22.0	-0.0018 mg/L	-0.0018 mg/L	18:24:59

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**Mean Data: ICCB**

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3247597.4	0.994 mg/L	0.0061			0.62%
Ag 328.068†	311.2	0.0013 mg/L	0.00055	0.0013 mg/L	0.00055	42.16%
QC value within limits for Ag 328.068		Recovery = Not calculated				
Al 237.313†	-3.7	0.0019 mg/L	0.00001	0.0019 mg/L	0.00001	0.53%
QC value within limits for Al 237.313		Recovery = Not calculated				
As 188.979†	1.7	0.0017 mg/L	0.00254	0.0017 mg/L	0.00254	148.87%
QC value within limits for As 188.979		Recovery = Not calculated				
B 182.528†	3.7	0.0100 mg/L	0.00333	0.0100 mg/L	0.00333	33.43%
QC value within limits for B 182.528		Recovery = Not calculated				
Ba 233.527†	8.4	-0.0013 mg/L	0.00001	-0.0013 mg/L	0.00001	0.60%
QC value within limits for Ba 233.527		Recovery = Not calculated				
Be 313.107†	-96.9	0.0001 mg/L	0.00002	0.0001 mg/L	0.00002	23.89%
QC value within limits for Be 313.107		Recovery = Not calculated				
Ca 315.886†	-109.0	-0.0082 mg/L	0.00112	-0.0082 mg/L	0.00112	13.61%
QC value within limits for Ca 315.886		Recovery = Not calculated				
Cd 228.802†	1.7	-0.0001 mg/L	0.00022	-0.0001 mg/L	0.00022	279.95%
QC value within limits for Cd 228.802		Recovery = Not calculated				
Co 228.616†	-4.9	-0.0010 mg/L	0.00020	-0.0010 mg/L	0.00020	20.15%
QC value within limits for Co 228.616		Recovery = Not calculated				
Cr 267.716†	71.9	-0.0006 mg/L	0.00028	-0.0006 mg/L	0.00028	43.40%
QC value within limits for Cr 267.716		Recovery = Not calculated				
Cu 324.752†	-68.8	-0.0013 mg/L	0.00030	-0.0013 mg/L	0.00030	23.66%
QC value within limits for Cu 324.752		Recovery = Not calculated				
Fe 234.349†	17.5	-0.0070 mg/L	0.00082	-0.0070 mg/L	0.00082	11.78%
QC value within limits for Fe 234.349		Recovery = Not calculated				
Fe 238.204†	67.8	-0.0105 mg/L	0.00050	-0.0105 mg/L	0.00050	4.81%
QC value within limits for Fe 238.204		Recovery = Not calculated				
K 766.490†	95.6	0.1445 mg/L	0.00514	0.1445 mg/L	0.00514	3.56%
QC value greater than the upper limit for K 766.490		Recovery = Not calculated				
Li 670.784†	-12.1	0.0001 mg/L	0.00024	0.0001 mg/L	0.00024	175.67%
QC value within limits for Li 670.784		Recovery = Not calculated				
Mg 279.077†	22.9	-0.0194 mg/L	0.00065	-0.0194 mg/L	0.00065	3.33%
QC value less than the lower limit for Mg 279.077		Recovery = Not calculated				
Mn 257.610†	-45.3	-0.0026 mg/L	0.00004	-0.0026 mg/L	0.00004	1.44%
QC value within limits for Mn 257.610		Recovery = Not calculated				
Mo 202.031†	20.6	0.0015 mg/L	0.00089	0.0015 mg/L	0.00089	60.45%
QC value within limits for Mo 202.031		Recovery = Not calculated				



Na 589.592	357.6	-0.1060 mg/L	0.00050	-0.1060 mg/L	0.00050	0.47%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	9.5	-0.0029 mg/L	0.00035	-0.0029 mg/L	0.00035	12.38%
QC value less than the lower limit for Ni 231.604 Recovery = Not calculated						
P 214.914†	-4.8	0.0144 mg/L	0.00181	0.0144 mg/L	0.00181	12.53%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	8.6	-0.0005 mg/L	0.00046	-0.0005 mg/L	0.00046	86.75%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-2.1	-0.0002 mg/L	0.00212	-0.0002 mg/L	0.00212	973.38%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	4.6	0.0052 mg/L	0.00206	0.0052 mg/L	0.00206	39.85%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-29.9	-0.0156 mg/L	0.00154	-0.0156 mg/L	0.00154	9.86%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	-225.4	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	2.47%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	94.4	0.0007 mg/L	0.00004	0.0007 mg/L	0.00004	4.75%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	23.7	0.0403 mg/L	0.00429	0.0403 mg/L	0.00429	10.66%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated						
V 292.402†	85.1	0.0005 mg/L	0.00032	0.0005 mg/L	0.00032	60.27%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-13.7	-0.0017 mg/L	0.00015	-0.0017 mg/L	0.00015	8.62%
QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 15

Sample ID: 0606340-01tclp x10

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 6/24/2006 6:26:36 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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 Replicate Data: 0606340-01tclp x10

Repl#	Analyte	Net		Calib.	Sample		Analysis Time
		Intensity	Corrected Intensity		Conc. Units	Conc. Units	
1	K 766.490†	1767.3	1303.0	0.7955 mg/L	0.7955 mg/L	18:28:15	
1	Li 670.784†	158.4	-4.6	0.0003 mg/L	0.0003 mg/L	18:28:15	
1	Na 589.592	1079048.3	1080223.7	135.3 mg/L	135.3 mg/L	18:28:10	
1	Y 371.029	3112018.8	3112018.8	0.952 mg/L		18:28:35	
1	Ag 328.068†	-1688.0	19.8	0.0003 mg/L	0.0003 mg/L	18:28:41	
1	Al 237.313†	158.8	220.4	0.0270 mg/L	0.0270 mg/L	18:29:01	
1	As 188.979†	3.7	-0.1	-0.0006 mg/L	-0.0006 mg/L	18:29:01	
1	B 182.528†	2.6	7.0	0.0169 mg/L	0.0169 mg/L	18:29:01	
1	Ba 233.527†	6929.6	7452.8	0.0618 mg/L	0.0618 mg/L	18:28:41	
1	Be 313.107†	1890.2	19.6	0.0001 mg/L	0.0001 mg/L	18:28:41	
1	Ca 315.886†	3737619.3	3924046.7	27.15 mg/L	27.15 mg/L	18:28:35	
1	Cd 228.802†	137.0	17.7	0.0003 mg/L	0.0003 mg/L	18:29:01	
1	Co 228.616†	-54.1	97.4	0.0017 mg/L	0.0017 mg/L	18:29:01	
1	Cr 267.716†	1326.9	195.3	0.0000 mg/L	0.0000 mg/L	18:28:41	
1	Cu 324.752†	66040.6	66199.7	0.2519 mg/L	0.2519 mg/L	18:28:41	
1	Fe 234.349†	3136.3	1925.3	0.0305 mg/L	0.0305 mg/L	18:28:41	
1	Fe 238.204†	3871.7	2821.4	0.0135 mg/L	0.0135 mg/L	18:29:01	
1	Mg 279.077†	19403.9	19773.9	0.7822 mg/L	0.7822 mg/L	18:28:41	
1	Mn 257.610†	212250.8	221004.8	0.2436 mg/L	0.2436 mg/L	18:28:41	
1	Mo 202.031†	87.9	63.1	0.0044 mg/L	0.0044 mg/L	18:29:01	
1	Ni 231.604†	150.4	114.9	0.0005 mg/L	0.0005 mg/L	18:29:01	
1	P 214.914†	70.1	50.1	0.0538 mg/L	0.0538 mg/L	18:29:01	
1	Pb 220.353†	4789.9	5205.7	0.6045 mg/L	0.6045 mg/L	18:28:41	
1	Sb 206.836†	50.6	45.4	0.0232 mg/L	0.0232 mg/L	18:29:01	
1	Se 196.026†	-9.4	0.4	0.0002 mg/L	0.0002 mg/L	18:29:01	
1	Sn 189.927†	134.6	2.4	-0.0069 mg/L	-0.0069 mg/L	18:29:01	
1	Sr 407.771†	1717347.7	1796646.1	0.0811 mg/L	0.0811 mg/L	18:28:35	
1	Ti 337.279†	-2166.6	3.2	0.0006 mg/L	0.0006 mg/L	18:28:41	
1	Tl 190.801†	18.5	18.6	0.0404 mg/L	0.0404 mg/L	18:29:01	
1	V 292.402†	-1897.0	-63.3	0.0000 mg/L	0.0000 mg/L	18:28:41	
1	Zn 213.857†	14217.2	14265.0	0.1825 mg/L	0.1825 mg/L	18:28:41	
2	K 766.490†	1813.3	1333.1	0.8117 mg/L	0.8117 mg/L	18:28:26	
2	Li 670.784†	186.5	23.2	0.0011 mg/L	0.0011 mg/L	18:28:26	
2	Na 589.592	1081082.6	1082258.0	135.6 mg/L	135.6 mg/L	18:28:21	
2	Y 371.029	3141879.8	3141879.8	0.961 mg/L		18:29:08	

1	Sn 189.927†	938.8	768.2	0.2010 mg/L	0.2010 mg/L	18:56:14
1	Sr 407.771†	89203.6	79348.8	0.0034 mg/L	0.0034 mg/L	18:55:48
1	Ti 337.279†	53132.9	53617.9	0.0758 mg/L	0.0758 mg/L	18:55:54
1	Tl 190.801†	30.9	29.0	0.0472 mg/L	0.0472 mg/L	18:56:14
1	V 292.402†	660.6	2567.1	0.0101 mg/L	0.0101 mg/L	18:55:54
1	Zn 213.857†	135053.7	129829.8	1.673 mg/L	1.673 mg/L	18:55:54
2	K 766.490†	1092.8	495.1	0.3599 mg/L	0.3599 mg/L	18:55:40
2	Li 670.784†	213.5	33.9	0.0015 mg/L	0.0015 mg/L	18:55:40
2	Na 589.592	7330.6	8506.1	0.9159 mg/L	0.9159 mg/L	18:56:20
2	Y 371.029	3407544.5	3407544.5	1.04 mg/L	1.04 mg/L	18:56:26
2	Ag 328.068†	10593.8	11952.9	0.0436 mg/L	0.0436 mg/L	18:56:26
2	Al 237.313†	15340.1	14766.1	1.697 mg/L	1.697 mg/L	18:56:46
2	As 188.979†	8.9	4.5	0.0052 mg/L	0.0052 mg/L	18:56:46
2	B 182.528†	-3.3	1.0	0.0044 mg/L	0.0044 mg/L	18:56:46
2	Ba 233.527†	2247.2	2330.9	0.0184 mg/L	0.0184 mg/L	18:56:26
2	Be 313.107†	2877.3	794.1	0.0002 mg/L	0.0002 mg/L	18:56:26
2	Ca 315.886†	96540.0	91538.0	0.6260 mg/L	0.6260 mg/L	18:56:46
2	Cd 228.802†	187.1	53.3	0.0012 mg/L	0.0012 mg/L	18:56:46
2	Co 228.616†	-122.7	36.6	-0.0001 mg/L	-0.0001 mg/L	18:56:26
2	Cr 267.716†	7965.7	6441.6	0.0422 mg/L	0.0422 mg/L	18:56:20
2	Cu 324.752†	991392.4	947674.1	3.620 mg/L	3.620 mg/L	18:56:20
2	Fe 234.349†	189006.9	179905.0	3.531 mg/L	3.531 mg/L	18:56:20
2	Fe 238.204†	430513.9	411654.0	3.569 mg/L	3.569 mg/L	18:56:26
2	Mg 279.077†	10417.7	9388.2	0.3598 mg/L	0.3598 mg/L	18:56:26
2	Mn 257.610†	156226.7	147941.8	0.1623 mg/L	0.1623 mg/L	18:56:46
2	Mo 202.031†	70.4	38.2	0.0027 mg/L	0.0027 mg/L	18:56:46
2	Ni 231.604†	1197.8	1105.8	0.0315 mg/L	0.0315 mg/L	18:56:26
2	P 214.914†	1552.8	1465.8	1.069 mg/L	1.069 mg/L	18:56:46
2	Pb 220.353†	3819.3	3838.6	0.4440 mg/L	0.4440 mg/L	18:56:46
2	Sb 206.836†	3.7	-4.2	-0.0022 mg/L	-0.0022 mg/L	18:56:46
2	Se 196.026†	-14.2	-3.3	-0.0043 mg/L	-0.0043 mg/L	18:56:46
2	Sn 189.927†	913.1	736.9	0.1925 mg/L	0.1925 mg/L	18:56:20
2	Sr 407.771†	89533.9	79026.7	0.0034 mg/L	0.0034 mg/L	18:56:26
2	Ti 337.279†	53252.1	53351.7	0.0754 mg/L	0.0754 mg/L	18:56:46
2	Tl 190.801†	30.1	28.0	0.0464 mg/L	0.0464 mg/L	18:56:26
2	V 292.402†	633.8	2536.7	0.0100 mg/L	0.0100 mg/L	18:56:26
2	Zn 213.857†	135518.3	129308.0	1.666 mg/L	1.666 mg/L	18:56:26

Mean Data: 0606373-09 x10

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3394913.0	1.04 mg/L	0.005		0.00017	0.53%
Ag 328.068†	11986.6	0.0437 mg/L	0.00017	0.0437 mg/L	0.0013	0.40%
Al 237.313†	14774.1	1.698 mg/L	0.0013	1.698 mg/L	0.00285	89.04%
As 188.979†	2.9	0.0032 mg/L	0.00285	0.0032 mg/L	0.00401	55.05%
B 182.528†	2.4	0.0073 mg/L	0.00401	0.0073 mg/L	0.00022	1.19%
Ba 233.527†	2349.3	0.0185 mg/L	0.00022	0.0185 mg/L	0.00001	4.84%
Be 313.107†	757.0	0.0002 mg/L	0.00001	0.0002 mg/L	0.00220	0.35%
Ca 315.886†	91763.1	0.6276 mg/L	0.00220	0.6276 mg/L	0.00005	4.00%
Cd 228.802†	51.4	0.0012 mg/L	0.00005	0.0012 mg/L	0.00026	201.20%
Co 228.616†	43.5	0.0001 mg/L	0.00026	0.0001 mg/L	0.00051	1.19%
Cr 267.716†	6494.9	0.0425 mg/L	0.00051	0.0425 mg/L	0.0009	0.03%
Cu 324.752†	947849.9	3.620 mg/L	0.0009	3.620 mg/L	0.0041	0.11%
Fe 234.349†	179759.5	3.528 mg/L	0.0041	3.528 mg/L	0.0005	0.01%
Fe 238.204†	411616.8	3.569 mg/L	0.0005	3.569 mg/L	0.01095	2.98%
K 766.490†	509.5	0.3677 mg/L	0.01095	0.3677 mg/L	0.00075	38.02%
Li 670.784†	52.5	0.0020 mg/L	0.00075	0.0020 mg/L	0.00384	1.06%
Mg 279.077†	9455.3	0.3625 mg/L	0.00384	0.3625 mg/L	0.00018	0.11%
Mn 257.610†	148055.4	0.1624 mg/L	0.00018	0.1624 mg/L	0.00059	19.06%
Mo 202.031†	44.2	0.0031 mg/L	0.00059	0.0031 mg/L	0.00467	0.51%
Na 589.592	8532.5	0.9192 mg/L	0.00467	0.9192 mg/L	0.00033	1.03%
Ni 231.604†	1113.2	0.0318 mg/L	0.00033	0.0318 mg/L	0.0158	1.49%
P 214.914†	1450.2	1.058 mg/L	0.0158	1.058 mg/L	0.00437	0.98%
Pb 220.353†	3865.2	0.4471 mg/L	0.00437	0.4471 mg/L	0.00141	117.85%
Sb 206.836†	-2.2	-0.0012 mg/L	0.00141	-0.0012 mg/L	0.00366	219.16%
Se 196.026†	-1.1	-0.0017 mg/L	0.00366	-0.0017 mg/L	0.00601	3.06%
Sn 189.927†	752.5	0.1967 mg/L	0.00601	0.1967 mg/L	0.00001	0.31%
Sr 407.771†	79187.7	0.0034 mg/L	0.00001	0.0034 mg/L	0.00026	0.35%
Ti 337.279†	53484.8	0.0756 mg/L	0.00026	0.0756 mg/L	0.00053	1.13%
Tl 190.801†	28.5	0.0468 mg/L	0.00053	0.0468 mg/L	0.00010	0.97%
V 292.402†	2551.9	0.0101 mg/L	0.00010	0.0101 mg/L		

Zn 213.857† 129568.9 1.670 mg/L 0.0048 1.670 mg/L 0.0048 0.29%

Sequence No.: 22
Sample ID: BF62403-blk1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 16
Date Collected: 6/24/2006 6:58:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62403-blk1

Table with columns: Repl#, Analyte, Net Intensity, Corrected Intensity, Calib. Conc. Units, Sample Conc. Units, Analysis Time. Contains multiple rows of replicate data for various elements like K, Li, Na, Y, Ag, Al, As, B, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, P, Pb, Sb, Se, Sn, Sr, Ti, V, Zn.

1	Mn 257.610†	465622.1	455808.9	0.5053 mg/L	0.5053 mg/L	19:13:34
1	Mo 202.031†	7417.6	7262.1	0.5043 mg/L	0.5043 mg/L	19:14:00
1	Ni 231.604†	16747.8	16420.0	0.5123 mg/L	0.5123 mg/L	19:13:39
1	P 214.914†	7154.3	7009.1	5.045 mg/L	5.045 mg/L	19:14:00
1	Pb 220.353†	4270.2	4373.0	0.5088 mg/L	0.5088 mg/L	19:14:00
1	Sb 206.836†	1043.3	1017.8	0.4936 mg/L	0.4936 mg/L	19:14:00
1	Se 196.026†	844.8	840.7	1.008 mg/L	1.008 mg/L	19:14:00
1	Sn 189.927†	2045.0	1871.3	0.5004 mg/L	0.5004 mg/L	19:14:00
1	Sr 407.771†	1135920.1	1109753.5	0.0500 mg/L	0.0500 mg/L	19:13:34
1	Ti 337.279†	361784.3	357908.5	0.5024 mg/L	0.5024 mg/L	19:13:39
1	Tl 190.801†	605.0	593.8	0.5003 mg/L	0.5003 mg/L	19:14:00
1	V 292.402†	123536.7	123364.1	0.5112 mg/L	0.5112 mg/L	19:13:39
1	Zn 213.857†	40857.2	39496.8	0.5055 mg/L	0.5055 mg/L	19:13:39
2	K 766.490†	47275.5	46107.7	24.95 mg/L	24.95 mg/L	19:13:25
2	Li 670.784†	18064.7	17658.9	0.5064 mg/L	0.5064 mg/L	19:13:25
2	Na 589.592	207271.7	208447.1	25.99 mg/L	25.99 mg/L	19:13:25
2	Y 371.029	3311183.4	3311183.4	1.01 mg/L		19:14:06
2	Ag 328.068†	68826.2	69723.6	0.2528 mg/L	0.2528 mg/L	19:14:12
2	Al 237.313†	22162.3	21927.7	2.533 mg/L	2.533 mg/L	19:14:12
2	As 188.979†	396.9	387.8	0.4958 mg/L	0.4958 mg/L	19:14:32
2	B 182.528†	237.0	238.1	0.5010 mg/L	0.5010 mg/L	19:14:32
2	Ba 233.527†	60832.0	60216.5	0.5093 mg/L	0.5093 mg/L	19:14:12
2	Be 313.107†	240476.5	235383.4	0.0495 mg/L	0.0495 mg/L	19:14:06
2	Ca 315.886†	741026.0	730336.3	5.049 mg/L	5.049 mg/L	19:14:06
2	Cd 228.802†	10296.1	10036.1	0.2514 mg/L	0.2514 mg/L	19:14:32
2	Co 228.616†	19087.0	18993.0	0.5074 mg/L	0.5074 mg/L	19:14:12
2	Cr 267.716†	78139.9	75925.5	0.5076 mg/L	0.5076 mg/L	19:14:12
2	Cu 324.752†	137162.7	132225.2	0.5048 mg/L	0.5048 mg/L	19:14:12
2	Fe 234.349†	133119.6	130020.0	2.544 mg/L	2.544 mg/L	19:14:12
2	Fe 238.204†	300680.2	295525.0	2.560 mg/L	2.560 mg/L	19:14:12
2	Mg 279.077†	129695.1	127405.0	5.139 mg/L	5.139 mg/L	19:14:12
2	Mn 257.610†	463117.8	455201.9	0.5046 mg/L	0.5046 mg/L	19:14:06
2	Mo 202.031†	7402.8	7277.3	0.5053 mg/L	0.5053 mg/L	19:14:32
2	Ni 231.604†	16568.0	16309.5	0.5089 mg/L	0.5089 mg/L	19:14:12
2	P 214.914†	7126.1	7009.9	5.046 mg/L	5.046 mg/L	19:14:32
2	Pb 220.353†	4256.3	4376.5	0.5092 mg/L	0.5092 mg/L	19:14:32
2	Sb 206.836†	1047.4	1026.0	0.4977 mg/L	0.4977 mg/L	19:14:32
2	Se 196.026†	840.1	839.4	1.006 mg/L	1.006 mg/L	19:14:32
2	Sn 189.927†	2031.8	1866.4	0.4991 mg/L	0.4991 mg/L	19:14:32
2	Sr 407.771†	1133268.5	1111685.3	0.0501 mg/L	0.0501 mg/L	19:14:06
2	Ti 337.279†	362601.3	360163.7	0.5055 mg/L	0.5055 mg/L	19:14:12
2	Tl 190.801†	608.0	599.2	0.5046 mg/L	0.5046 mg/L	19:14:32
2	V 292.402†	123068.3	123396.4	0.5113 mg/L	0.5113 mg/L	19:14:12
2	Zn 213.857†	40787.7	39591.8	0.5067 mg/L	0.5067 mg/L	19:14:12

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Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3317928.2	1.02 mg/L	0.003			0.29%
Ag 328.068†	69218.2	0.2510 mg/L	0.00259	0.2510 mg/L	0.00259	1.03%
QC value within limits for Ag 328.068 Recovery = 100.41%						
Al 237.313†	21816.8	2.520 mg/L	0.0181	2.520 mg/L	0.0181	0.72%
QC value within limits for Al 237.313 Recovery = 100.81%						
As 188.979†	391.9	0.5012 mg/L	0.00759	0.5012 mg/L	0.00759	1.51%
QC value within limits for As 188.979 Recovery = 100.23%						
B 182.528†	241.3	0.5076 mg/L	0.00942	0.5076 mg/L	0.00942	1.86%
QC value within limits for B 182.528 Recovery = 101.52%						
Ba 233.527†	60177.2	0.5089 mg/L	0.00047	0.5089 mg/L	0.00047	0.09%
QC value within limits for Ba 233.527 Recovery = 101.79%						
Be 313.107†	235446.1	0.0495 mg/L	0.00002	0.0495 mg/L	0.00002	0.04%
QC value within limits for Be 313.107 Recovery = 98.95%						
Ca 315.886†	730489.4	5.050 mg/L	0.0015	5.050 mg/L	0.0015	0.03%
QC value within limits for Ca 315.886 Recovery = 101.00%						
Cd 228.802†	10022.1	0.2510 mg/L	0.00055	0.2510 mg/L	0.00055	0.22%
QC value within limits for Cd 228.802 Recovery = 100.42%						
Co 228.616†	18943.4	0.5061 mg/L	0.00188	0.5061 mg/L	0.00188	0.37%
QC value within limits for Co 228.616 Recovery = 101.22%						
Cr 267.716†	75823.7	0.5069 mg/L	0.00097	0.5069 mg/L	0.00097	0.19%
QC value within limits for Cr 267.716 Recovery = 101.37%						
Cu 324.752†	132227.8	0.5048 mg/L	0.00001	0.5048 mg/L	0.00001	0.00%
QC value within limits for Cu 324.752 Recovery = 100.96%						

Fe 234.349†	129717.2	2.538 mg/L	0.0084	2.538 mg/L	0.0084	0.33%
QC value within limits for Fe 234.349 Recovery = 101.53%						
Fe 238.204†	294848.9	2.554 mg/L	0.0083	2.554 mg/L	0.0083	0.33%
QC value within limits for Fe 238.204 Recovery = 102.16%						
K 766.490†	45739.1	24.75 mg/L	0.281	24.75 mg/L	0.281	1.14%
QC value within limits for K 766.490 Recovery = 99.02%						
Li 670.784†	17581.9	0.5042 mg/L	0.00312	0.5042 mg/L	0.00312	0.62%
QC value within limits for Li 670.784 Recovery = 100.84%						
Mg 279.077†	127066.8	5.125 mg/L	0.0193	5.125 mg/L	0.0193	0.38%
QC value within limits for Mg 279.077 Recovery = 102.50%						
Mn 257.610†	455505.4	0.5049 mg/L	0.00048	0.5049 mg/L	0.00048	0.09%
QC value within limits for Mn 257.610 Recovery = 100.99%						
Mo 202.031†	7269.7	0.5048 mg/L	0.00075	0.5048 mg/L	0.00075	0.15%
QC value within limits for Mo 202.031 Recovery = 100.96%						
Na 589.592	208280.3	25.97 mg/L	0.030	25.97 mg/L	0.030	0.11%
QC value within limits for Na 589.592 Recovery = 103.87%						
Ni 231.604†	16364.7	0.5106 mg/L	0.00245	0.5106 mg/L	0.00245	0.48%
QC value within limits for Ni 231.604 Recovery = 102.12%						
P 214.914†	7009.5	5.046 mg/L	0.0004	5.046 mg/L	0.0004	0.01%
QC value within limits for P 214.914 Recovery = 100.91%						
Pb 220.353†	4374.8	0.5090 mg/L	0.00029	0.5090 mg/L	0.00029	0.06%
QC value within limits for Pb 220.353 Recovery = 101.81%						
Sb 206.836†	1021.9	0.4956 mg/L	0.00286	0.4956 mg/L	0.00286	0.58%
QC value within limits for Sb 206.836 Recovery = 99.13%						
Se 196.026†	840.1	1.007 mg/L	0.0011	1.007 mg/L	0.0011	0.11%
QC value within limits for Se 196.026 Recovery = 100.71%						
Sn 189.927†	1868.9	0.4997 mg/L	0.00093	0.4997 mg/L	0.00093	0.19%
QC value within limits for Sn 189.927 Recovery = 99.94%						
Sr 407.771†	1110719.4	0.0501 mg/L	0.00006	0.0501 mg/L	0.00006	0.12%
QC value within limits for Sr 407.771 Recovery = 100.10%						
Ti 337.279†	359036.1	0.5040 mg/L	0.00224	0.5040 mg/L	0.00224	0.44%
QC value within limits for Ti 337.279 Recovery = 100.79%						
Tl 190.801†	596.5	0.5024 mg/L	0.00302	0.5024 mg/L	0.00302	0.60%
QC value within limits for Tl 190.801 Recovery = 100.48%						
V 292.402†	123380.3	0.5113 mg/L	0.00010	0.5113 mg/L	0.00010	0.02%
QC value within limits for V 292.402 Recovery = 102.25%						
Zn 213.857†	39544.3	0.5061 mg/L	0.00088	0.5061 mg/L	0.00088	0.17%
QC value within limits for Zn 213.857 Recovery = 101.22%						

All analyte(s) passed QC.

Sequence No.: 26

Sample ID: ICCB

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 1

Date Collected: 6/24/2006 7:16:11 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc. Units	Sample Conc. Units	Analysis Time
1	K 766.490†	702.8	138.9	0.1678 mg/L	0.1678 mg/L	19:17:44
1	Li 670.784†	160.6	-12.8	0.0001 mg/L	0.0001 mg/L	19:17:44
1	Na 589.592	-290.5	885.0	-0.0398 mg/L	-0.0398 mg/L	19:17:44
1	Y 371.029	3319878.1	3319878.1	1.02 mg/L		19:17:57
1	Ag 328.068†	-1684.4	134.4	0.0007 mg/L	0.0007 mg/L	19:18:02
1	Al 237.313†	-44.7	9.7	0.0035 mg/L	0.0035 mg/L	19:18:23
1	As 188.979†	5.0	1.0	0.0008 mg/L	0.0008 mg/L	19:18:23
1	B 182.528†	1.3	5.5	0.0137 mg/L	0.0137 mg/L	19:18:23
1	Ba 233.527†	-166.5	11.7	-0.0013 mg/L	-0.0013 mg/L	19:18:23
1	Be 313.107†	1891.5	-103.4	0.0001 mg/L	0.0001 mg/L	19:18:02
1	Ca 315.886†	1139.3	69.7	-0.0070 mg/L	-0.0070 mg/L	19:18:02
1	Cd 228.802†	131.1	2.9	0.0000 mg/L	0.0000 mg/L	19:18:23
1	Co 228.616†	-167.1	-10.3	-0.0011 mg/L	-0.0011 mg/L	19:18:23
1	Cr 267.716†	1293.2	74.9	-0.0006 mg/L	-0.0006 mg/L	19:18:02
1	Cu 324.752†	3201.3	-2.1	-0.0010 mg/L	-0.0010 mg/L	19:18:02
1	Fe 234.349†	1390.9	1.0	-0.0073 mg/L	-0.0073 mg/L	19:18:23
1	Fe 238.204†	1307.4	42.5	-0.0107 mg/L	-0.0107 mg/L	19:18:23
1	Mg 279.077†	560.6	-51.4	-0.0224 mg/L	-0.0224 mg/L	19:18:02
1	Mn 257.610†	1927.3	4.8	-0.0025 mg/L	-0.0025 mg/L	19:18:02
1	Mo 202.031†	62.9	32.6	0.0023 mg/L	0.0023 mg/L	19:18:23
1	Ni 231.604†	67.6	23.5	-0.0024 mg/L	-0.0024 mg/L	19:18:23

1	P 214.914†	33.3	9.3	0.0245 mg/L	0.0245 mg/L	19:18:23
1	Pb 220.353†	-169.8	8.4	-0.0006 mg/L	-0.0006 mg/L	19:18:23
1	Sb 206.836†	3.2	-4.6	-0.0015 mg/L	-0.0015 mg/L	19:18:23
1	Se 196.026†	-7.2	3.2	0.0035 mg/L	0.0035 mg/L	19:18:23
1	Sn 189.927†	112.3	-28.4	-0.0152 mg/L	-0.0152 mg/L	19:18:23
1	Sr 407.771†	6842.5	-108.0	-0.0002 mg/L	-0.0002 mg/L	19:17:57
1	Ti 337.279†	-2160.8	151.3	0.0008 mg/L	0.0008 mg/L	19:18:02
1	Tl 190.801†	29.9	28.6	0.0442 mg/L	0.0442 mg/L	19:18:23
1	V 292.402†	-1969.9	-10.4	0.0002 mg/L	0.0002 mg/L	19:18:02
1	Zn 213.857†	656.9	-18.7	-0.0018 mg/L	-0.0018 mg/L	19:18:23
2	K 766.490†	746.3	170.9	0.1851 mg/L	0.1851 mg/L	19:17:49
2	Li 670.784†	182.3	5.9	0.0006 mg/L	0.0006 mg/L	19:17:49
2	Na 589.592	-264.0	911.5	-0.0365 mg/L	-0.0365 mg/L	19:17:49
2	Y 371.029	3368926.4	3368926.4	1.03 mg/L		19:18:28
2	Ag 328.068†	-1752.0	92.9	0.0005 mg/L	0.0005 mg/L	19:18:34
2	Al 237.313†	-50.2	5.0	0.0029 mg/L	0.0029 mg/L	19:18:54
2	As 188.979†	9.6	5.4	0.0064 mg/L	0.0064 mg/L	19:18:54
2	B 182.528†	-1.1	3.1	0.0088 mg/L	0.0088 mg/L	19:18:54
2	Ba 233.527†	-173.3	7.5	-0.0013 mg/L	-0.0013 mg/L	19:18:54
2	Be 313.107†	1893.9	-128.2	0.0001 mg/L	0.0001 mg/L	19:18:34
2	Ca 315.886†	1069.2	-14.7	-0.0076 mg/L	-0.0076 mg/L	19:18:34
2	Cd 228.802†	110.7	-18.7	-0.0006 mg/L	-0.0006 mg/L	19:18:54
2	Co 228.616†	-178.6	-19.0	-0.0014 mg/L	-0.0014 mg/L	19:18:54
2	Cr 267.716†	1314.5	77.1	-0.0006 mg/L	-0.0006 mg/L	19:18:34
2	Cu 324.752†	3296.9	44.7	-0.0008 mg/L	-0.0008 mg/L	19:18:34
2	Fe 234.349†	1391.6	-18.4	-0.0077 mg/L	-0.0077 mg/L	19:18:54
2	Fe 238.204†	1294.8	11.5	-0.0109 mg/L	-0.0109 mg/L	19:18:54
2	Mg 279.077†	583.9	-36.9	-0.0218 mg/L	-0.0218 mg/L	19:18:34
2	Mn 257.610†	1925.6	-24.5	-0.0026 mg/L	-0.0026 mg/L	19:18:34
2	Mo 202.031†	47.4	16.7	0.0012 mg/L	0.0012 mg/L	19:18:54
2	Ni 231.604†	38.4	-5.7	-0.0033 mg/L	-0.0033 mg/L	19:18:54
2	P 214.914†	27.5	3.1	0.0201 mg/L	0.0201 mg/L	19:18:54
2	Pb 220.353†	-173.9	6.8	-0.0007 mg/L	-0.0007 mg/L	19:18:54
2	Sb 206.836†	15.0	6.8	0.0042 mg/L	0.0042 mg/L	19:18:54
2	Se 196.026†	-3.2	7.1	0.0083 mg/L	0.0083 mg/L	19:18:54
2	Sn 189.927†	109.8	-32.4	-0.0163 mg/L	-0.0163 mg/L	19:18:54
2	Sr 407.771†	6665.6	-377.7	-0.0002 mg/L	-0.0002 mg/L	19:18:28
2	Ti 337.279†	-2108.0	233.6	0.0009 mg/L	0.0009 mg/L	19:18:34
2	Tl 190.801†	16.4	15.1	0.0334 mg/L	0.0334 mg/L	19:18:54
2	V 292.402†	-1855.2	129.1	0.0007 mg/L	0.0007 mg/L	19:18:34
2	Zn 213.857†	655.0	-30.0	-0.0019 mg/L	-0.0019 mg/L	19:18:54

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	3344402.2	1.02 mg/L	0.011			1.04%
Ag 328.068†	113.7	0.0006 mg/L	0.00011	0.0006 mg/L	0.00011	18.00%
QC value within limits for Ag 328.068		Recovery =	Not calculated			
Al 237.313†	7.3	0.0032 mg/L	0.00038	0.0032 mg/L	0.00038	11.95%
QC value within limits for Al 237.313		Recovery =	Not calculated			
As 188.979†	3.2	0.0036 mg/L	0.00400	0.0036 mg/L	0.00400	111.70%
QC value within limits for As 188.979		Recovery =	Not calculated			
B 182.528†	4.3	0.0113 mg/L	0.00349	0.0113 mg/L	0.00349	30.98%
QC value within limits for B 182.528		Recovery =	Not calculated			
Ba 233.527†	9.6	-0.0013 mg/L	0.00003	-0.0013 mg/L	0.00003	2.00%
QC value within limits for Ba 233.527		Recovery =	Not calculated			
Be 313.107†	-115.8	0.0001 mg/L	0.00000	0.0001 mg/L	0.00000	3.84%
QC value within limits for Be 313.107		Recovery =	Not calculated			
Ca 315.886†	27.5	-0.0073 mg/L	0.00041	-0.0073 mg/L	0.00041	5.61%
QC value within limits for Ca 315.886		Recovery =	Not calculated			
Cd 228.802†	-7.9	-0.0003 mg/L	0.00041	-0.0003 mg/L	0.00041	121.80%
QC value within limits for Cd 228.802		Recovery =	Not calculated			
Co 228.616†	-14.7	-0.0013 mg/L	0.00017	-0.0013 mg/L	0.00017	13.12%
QC value within limits for Co 228.616		Recovery =	Not calculated			
Cr 267.716†	76.0	-0.0006 mg/L	0.00001	-0.0006 mg/L	0.00001	1.65%
QC value within limits for Cr 267.716		Recovery =	Not calculated			
Cu 324.752†	21.3	-0.0009 mg/L	0.00013	-0.0009 mg/L	0.00013	13.53%
QC value within limits for Cu 324.752		Recovery =	Not calculated			
Fe 234.349†	-8.7	-0.0075 mg/L	0.00026	-0.0075 mg/L	0.00026	3.48%
QC value within limits for Fe 234.349		Recovery =	Not calculated			
Fe 238.204†	27.0	-0.0108 mg/L	0.00019	-0.0108 mg/L	0.00019	1.76%

K	766.490†	154.9	0.1765 mg/L	0.01223	0.1765 mg/L	0.01223	6.93%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated							
Li	670.784†	-3.4	0.0004 mg/L	0.00038	0.0004 mg/L	0.00038	99.17%
QC value within limits for Li 670.784 Recovery = Not calculated							
Mg	279.077†	-44.2	-0.0221 mg/L	0.00042	-0.0221 mg/L	0.00042	1.88%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated							
Mn	257.610†	-9.9	-0.0026 mg/L	0.00002	-0.0026 mg/L	0.00002	0.90%
QC value within limits for Mn 257.610 Recovery = Not calculated							
Mo	202.031†	24.7	0.0018 mg/L	0.00078	0.0018 mg/L	0.00078	44.56%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na	589.592	898.3	-0.0382 mg/L	0.00235	-0.0382 mg/L	0.00235	6.15%
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni	231.604†	8.9	-0.0029 mg/L	0.00065	-0.0029 mg/L	0.00065	22.58%
QC value less than the lower limit for Ni 231.604 Recovery = Not calculated							
P	214.914†	6.2	0.0223 mg/L	0.00313	0.0223 mg/L	0.00313	14.03%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb	220.353†	7.6	-0.0006 mg/L	0.00013	-0.0006 mg/L	0.00013	19.85%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb	206.836†	1.1	0.0014 mg/L	0.00400	0.0014 mg/L	0.00400	294.95%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se	196.026†	5.2	0.0059 mg/L	0.00339	0.0059 mg/L	0.00339	57.72%
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn	189.927†	-30.4	-0.0158 mg/L	0.00077	-0.0158 mg/L	0.00077	4.90%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr	407.771†	-242.9	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	3.69%
QC value within limits for Sr 407.771 Recovery = Not calculated							
Ti	337.279†	192.5	0.0009 mg/L	0.00008	0.0009 mg/L	0.00008	9.31%
QC value within limits for Ti 337.279 Recovery = Not calculated							
Tl	190.801†	21.8	0.0388 mg/L	0.00764	0.0388 mg/L	0.00764	19.71%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated							
V	292.402†	59.3	0.0004 mg/L	0.00039	0.0004 mg/L	0.00039	89.00%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn	213.857†	-24.3	-0.0019 mg/L	0.00010	-0.0019 mg/L	0.00010	5.27%
QC value within limits for Zn 213.857 Recovery = Not calculated							
QC Failed. Continue with analysis.							

Sequence No.: 27

Sample ID: 0606378-01

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 19

Date Collected: 6/24/2006 7:20:31 PM

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

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Replicate Data: 0606378-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	K 766.490†	20336.4	19753.6	10.74	mg/L	10.74	mg/L	19:22:14
1	Li 670.784†	106.6	-64.4	-0.0014	mg/L	-0.0014	mg/L	19:22:14
1	Na 589.592	899360.0	900535.5	112.8	mg/L	112.8	mg/L	19:22:09
1	Y 371.029	3272917.4	3272917.4	1.00	mg/L			19:22:34
1	Ag 328.068†	17764.9	19531.4	0.0708	mg/L	0.0708	mg/L	19:22:39
1	Al 237.313†	10622.0	10660.1	1.236	mg/L	1.236	mg/L	19:22:39
1	As 188.979†	7.3	3.3	0.0037	mg/L	0.0037	mg/L	19:22:59
1	B 182.528†	158.5	162.5	0.3426	mg/L	0.3426	mg/L	19:22:59
1	Ba 233.527†	450.8	625.8	0.0039	mg/L	0.0039	mg/L	19:22:59
1	Be 313.107†	1571.6	-396.1	0.0001	mg/L	0.0001	mg/L	19:22:39
1	Ca 315.886†	949831.3	947386.6	6.548	mg/L	6.548	mg/L	19:22:34
1	Cd 228.802†	536.5	409.6	0.0102	mg/L	0.0102	mg/L	19:22:59
1	Co 228.616†	-143.7	10.7	-0.0006	mg/L	-0.0006	mg/L	19:22:59
1	Cr 267.716†	63351.2	62060.2	0.4150	mg/L	0.4150	mg/L	19:22:39
1	Cu 324.752†	65348.7	62099.4	0.2362	mg/L	0.2362	mg/L	19:22:39
1	Fe 234.349†	18900.4	17504.4	0.3342	mg/L	0.3342	mg/L	19:22:39
1	Fe 238.204†	40540.7	39236.7	0.3302	mg/L	0.3302	mg/L	19:22:39
1	Mg 279.077†	8827.1	8210.9	0.3118	mg/L	0.3118	mg/L	19:22:39
1	Mn 257.610†	5459.3	3558.8	0.0014	mg/L	0.0014	mg/L	19:22:39
1	Mo 202.031†	62.4	33.0	0.0023	mg/L	0.0023	mg/L	19:22:59
1	Ni 231.604†	8106.1	8051.2	0.2493	mg/L	0.2493	mg/L	19:22:39
1	P 214.914†	2266.2	2239.4	1.624	mg/L	1.624	mg/L	19:22:59
1	Pb 220.353†	1194.7	1368.5	0.1581	mg/L	0.1581	mg/L	19:22:59
1	Sb 206.836†	24.0	16.2	0.0005	mg/L	0.0005	mg/L	19:22:59

## ANALYSIS SEQUENCE

BPG0225

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0225-CAL1	QC		5		6F28044		
BPG0225-CAL2	QC		6		6F28010		
BPG0225-CAL3	QC		7		6F28011		
BPG0225-CAL4	QC		8		6F28012		
BPG0225-CAL5	QC		9		6F28013		
BPG0225-ICV1	QC		10		6F28012		
BPG0225-CCB1	QC		11		6F28014		
BPG0225-CCV1	QC		12		6F28012		
BPG0225-SCV1	QC		13				
BPG0225-ICB1	QC		14				
BF62317-BLK2	QC		15				
BF62317-BS2	QC		16				
BF62317-BSD2	QC		17				
BF62317-SRM2	QC		18				
BF62317-DUP3	QC		19				
BF62317-MS3	QC		20				
BF62317-PS3	QC		21				
BF62317-DUP4	QC		22				
BF62317-MS4	QC		23				
BPG0225-CCB2	QC		24				
BPG0225-CCV2	QC		25		6F28012		
BF62317-PS4	QC		26				
0606373-01	As: ppm Arsenic 7060	F	27				MACTEC Engineering & Consulting, In
0606373-01	Tl: ppm Thallium 7841	F	27				MACTEC Engineering & Consulting, In
0606373-02	Tl: ppm Thallium 7841	F	28				MACTEC Engineering & Consulting, In
0606373-02	As: ppm Arsenic 7060	F	28				MACTEC Engineering & Consulting, In
0606373-03	As: ppm Arsenic 7060	F	29				MACTEC Engineering & Consulting, In
0606373-03	Tl: ppm Thallium 7841	F	29				MACTEC Engineering & Consulting, In
0606373-04	Tl: ppm Thallium 7841	F	30				MACTEC Engineering & Consulting, In
0606373-04	As: ppm Arsenic 7060	F	30				MACTEC Engineering & Consulting, In
0606373-05	As: ppm Arsenic 7060	F	31				MACTEC Engineering & Consulting, In
0606373-05	Tl: ppm Thallium 7841	F	31				MACTEC Engineering & Consulting, In
0606373-06	As: ppm Arsenic 7060	F	32				MACTEC Engineering & Consulting, In



## ANALYSIS SEQUENCE

BPG0225

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606373-06	Tl: ppm Thallium 7841	F	32				MACTEC Engineering & Consulting, Inc
0606373-07	Tl: ppm Thallium 7841	F	33				MACTEC Engineering & Consulting, Inc
0606373-07	As: ppm Arsenic 7060	F	33				MACTEC Engineering & Consulting, Inc
0606373-08	Tl: ppm Thallium 7841	F	34				MACTEC Engineering & Consulting, Inc
0606373-08	As: ppm Arsenic 7060	F	34				MACTEC Engineering & Consulting, Inc
0606373-09	Tl: ppm Thallium 7841	F	35				MACTEC Engineering & Consulting, Inc
0606373-09	As: ppm Arsenic 7060	F	35				MACTEC Engineering & Consulting, Inc
BPG0225-CCB3	QC		36				
BPG0225-CCV3	QC		37		6F28012		
0606373-10	Tl: ppm Thallium 7841	F	38				MACTEC Engineering & Consulting, Inc
0606373-10	As: ppm Arsenic 7060	F	38				MACTEC Engineering & Consulting, Inc
0606373-12	Tl: ppm Thallium 7841	F	39				MACTEC Engineering & Consulting, Inc
0606373-12	As: ppm Arsenic 7060	F	39				MACTEC Engineering & Consulting, Inc
0606373-13	Tl: ppm Thallium 7841	F	40				MACTEC Engineering & Consulting, Inc
0606373-13	As: ppm Arsenic 7060	F	40				MACTEC Engineering & Consulting, Inc
0606373-14	As: ppm Arsenic 7060	F	41				MACTEC Engineering & Consulting, Inc
0606373-14	Tl: ppm Thallium 7841	F	41				MACTEC Engineering & Consulting, Inc
0606373-15	Tl: ppm Thallium 7841	F	42				MACTEC Engineering & Consulting, Inc
0606373-15	As: ppm Arsenic 7060	F	42				MACTEC Engineering & Consulting, Inc
0606373-16	As: ppm Arsenic 7060	F	43				MACTEC Engineering & Consulting, Inc
0606373-16	Tl: ppm Thallium 7841	F	43				MACTEC Engineering & Consulting, Inc
0606373-17	As: ppm Arsenic 7060	F	44				MACTEC Engineering & Consulting, Inc
0606373-17	Tl: ppm Thallium 7841	F	44				MACTEC Engineering & Consulting, Inc
0606373-18	Tl: ppm Thallium 7841	F	45				MACTEC Engineering & Consulting, Inc
0606373-18	As: ppm Arsenic 7060	F	45				MACTEC Engineering & Consulting, Inc
0606373-19	As: ppm Arsenic 7060	F	46				MACTEC Engineering & Consulting, Inc
0606373-19	Tl: ppm Thallium 7841	F	46				MACTEC Engineering & Consulting, Inc
BPG0225-SRD1	QC		47				
BPG0225-CCB4	QC		48				
BPG0225-CCV4	QC		49		6F28012		
BPG0225-SRD2	QC		50				
BF62320-BLK2	QC		51				
BF62320-BS2	QC		52				

Samples Loaded By \_\_\_\_\_

Date \_\_\_\_\_

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Data Processed By \_\_\_\_\_

Date \_\_\_\_\_

## ANALYSIS SEQUENCE

BPG0225

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BF62320-BSD2	QC		53				
BF62320-SRM2	QC		54				
BF62320-DUP3	QC		55				
BF62320-MS3	QC		56				
BF62320-PS3	QC		57				
BF62320-DUP4	QC		58				
BF62320-MS4	QC		59				
BPG0225-CCB5	QC		60				
BPG0225-CCV5	QC		61		6F28012		
BF62320-PS4	QC		62				
0606373-20	Tl: ppm Thallium 7841	F	63				MACTEC Engineering & Consulting, Inc
0606373-21	Tl: ppm Thallium 7841	F	64				MACTEC Engineering & Consulting, Inc
0606374-01	As: ppm Arsenic 7060	F	65				MACTEC Engineering & Consulting, Inc
0606374-01	Tl: ppm Thallium 7841	F	65				MACTEC Engineering & Consulting, Inc
0606374-02	Tl: ppm Thallium 7841	F	66				MACTEC Engineering & Consulting, Inc
0606374-02	As: ppm Arsenic 7060	F	66				MACTEC Engineering & Consulting, Inc
0606374-03	As: ppm Arsenic 7060	F	67				MACTEC Engineering & Consulting, Inc
0606374-03	Tl: ppm Thallium 7841	F	67				MACTEC Engineering & Consulting, Inc
0606374-03RE1	As: ppm Arsenic 7060	F	68				MACTEC Engineering & Consulting, Inc
0606374-04	As: ppm Arsenic 7060	F	69				MACTEC Engineering & Consulting, Inc
0606374-04	Tl: ppm Thallium 7841	F	69				MACTEC Engineering & Consulting, Inc
0606374-05	As: ppm Arsenic 7060	F	70				MACTEC Engineering & Consulting, Inc
0606374-05	Tl: ppm Thallium 7841	F	70				MACTEC Engineering & Consulting, Inc
0606374-06	Tl: ppm Thallium 7841	F	71				MACTEC Engineering & Consulting, Inc
0606374-06	As: ppm Arsenic 7060	F	71				MACTEC Engineering & Consulting, Inc
BPG0225-CCB6	QC		72				
BPG0225-CCV6	QC		73		6F28012		
0606374-07	Tl: ppm Thallium 7841	F	74				MACTEC Engineering & Consulting, Inc
0606374-08	Tl: ppm Thallium 7841	F	75				MACTEC Engineering & Consulting, Inc
0606374-09	Tl: ppm Thallium 7841	F	76				MACTEC Engineering & Consulting, Inc
0606374-10	Tl: ppm Thallium 7841	F	77				MACTEC Engineering & Consulting, Inc
0606374-11	Tl: ppm Thallium 7841	F	78				MACTEC Engineering & Consulting, Inc
0606374-12	Tl: ppm Thallium 7841	F	79				MACTEC Engineering & Consulting, Inc

Samples Loaded By \_\_\_\_\_

Date \_\_\_\_\_

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Data Processed By \_\_\_\_\_

Date \_\_\_\_\_

## ANALYSIS SEQUENCE

BPG0225

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606374-13	Tl: ppm Thallium 7841	F	80				MACTEC Engineering & Consulting, Inc
0606374-14	Tl: ppm Thallium 7841	F	81				MACTEC Engineering & Consulting, Inc
0606374-15	Tl: ppm Thallium 7841	F	82				MACTEC Engineering & Consulting, Inc
0606374-16	Tl: ppm Thallium 7841	F	83				MACTEC Engineering & Consulting, Inc
BPG0225-CCB7	QC		84				
BPG0225-CCV7	QC		85		6F28012		
BPG0225-SRD3	QC		86				
BPG0225-SRD4	QC		87				
BF62617-BLK2	QC		88				
BF62617-BS2	QC		89				
BF62617-BSD2	QC		90				
BF62617-SRM2	QC		91				
BF62617-PS3	QC		92				
BF62617-DUP3	QC		93				
BF62617-MS3	QC		94				
BF62617-DUP4	QC		95				
BPG0225-CCB8	QC		96				
BPG0225-CCV8	QC		97		6F28012		
BF62617-MS4	QC		98				
BF62617-PS4	QC		99				
0606383-14	Tl: ppm Thallium 7841	E	100				MACTEC Engineering & Consulting, Inc
0606383-13	Tl: ppm Thallium 7841	E	101				MACTEC Engineering & Consulting, Inc
0606383-12	Tl: ppm Thallium 7841	E	102				MACTEC Engineering & Consulting, Inc
0606383-11	Tl: ppm Thallium 7841	E	103				MACTEC Engineering & Consulting, Inc
0606383-10	Tl: ppm Thallium 7841	G	104				MACTEC Engineering & Consulting, Inc
0606383-09	Tl: ppm Thallium 7841	E	105				MACTEC Engineering & Consulting, Inc
0606383-08	Tl: ppm Thallium 7841	E	106				MACTEC Engineering & Consulting, Inc
0606383-07	Tl: ppm Thallium 7841	G	107				MACTEC Engineering & Consulting, Inc
BPG0225-CCB9	QC		108				
BPG0225-CCV9	QC		109		6F28012		
0606383-06	Tl: ppm Thallium 7841	E	110				MACTEC Engineering & Consulting, Inc
0606383-05	Tl: ppm Thallium 7841	G	111				MACTEC Engineering & Consulting, Inc
0606383-04	Tl: ppm Thallium 7841	E	112				MACTEC Engineering & Consulting, Inc

## ANALYSIS SEQUENCE

BPG0225

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606383-03	Tl: ppm Thallium 7841	G	113				MACTEC Engineering & Consulting, Inc
0606383-02	Tl: ppm Thallium 7841	E	114				MACTEC Engineering & Consulting, Inc
0606383-01	Tl: ppm Thallium 7841	G	115				MACTEC Engineering & Consulting, Inc
BPG0225-SRD5	QC		116				
BPG0225-SRD6	QC		117				
BPG0225-CCBA	QC		118				
BPG0225-CCVA	QC		119		6F28012		

Samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

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Data Processed By \_\_\_\_\_ Date \_\_\_\_\_

**ESS LABORATORY**  
**GFAA Data Review Check List**

SIF Method: Pb Tl2 Tl5 As Sb Run Date: 6/28/06  
 Project Number(s): 06346-05d, 06d, 375, 361, 373, 374, 360, 353, 405, 428, 430, 429  
 Batch Number (s): 0628064A  
 SOP NO. 30\_2009

Review Item	Yes (X)	No (X)	N/A (X)
1. Does the cal curve consist of four Calibration Standards including a blank and is its correlation within QC limits ( $\geq 0.995$ )?	X		
2. Is the low calibration standard at the reporting limit?	X		
3. If the low standard is above the reporting limit, is a CRI analyzed at the beginning of the run? Does the recovery meet QC limits (80-120%)?			X
4. Is the midpoint calibration standard reanalyzed immediately after the curve and is it within QC limits of 90-110% (+ 5% for 200.9)?	X		
5. Is the ICV from a second source and is its recovery within QC limits (90-110%)	X		
6. Is the mid-point calibration standard re-analyzed every 10 samples and at the end of the run and are its recoveries within QC limits (90-110%)?		X	
7. Is the CCB analyzed at beginning, after every 10 samples and at end of the run and are its recoveries within QC limits ( $< 2 \times MDL$ )?	X		
8. Are the method blank recoveries within QC limits?		X	
9. Are the LCS and ERA recoveries within QC limits (LCS: 80-120% for 7000, 85-115% for 200.9, ERA see COA)?	X		
10. Are matrix dups run at desired frequency (1 per 10 samples or per analytical batch) and are RPD's within QC limits ( $< 20\%$ )?	X		
11. Are matrix spikes run at desired frequency frequency (1 per 10 samples or per analytical batch) and are recoveries within QC limits (80-120%)?	X		
12. Are all samples with concentrations $>$ the highest calibration standard diluted and reanalyzed?	X		
13. Has the serial dilution been analyzed at the required frequency (once per analytical batch) and are results within criterion ( $\pm 10\%$ RPD)?	X		
14. Is the batch post digestion spike within QC limits (85-115%)?	X		
15. Are all sample hold times met?	X		
16. Are all non-conformances included and noted?	X		
17. Is the correct methodology used for sample prep and analysis?	X		
18. Are all calculations checked?	X		
19. Did analyst sign/date appropriate printouts and report sheets?	X		
20. Are all samples located in the correct auto-sampler locations?	X		

Comments on any "No" response:  
Pb - Blank hits redigest all smp w/ hits  
06329-03d  
Tl2 - OK, Tl5 - CCVs out high - smps ND  
As - 06374-03 X15  
Sb - OK

Analyst: SP Date: 6/30/06 2<sup>nd</sup> Rvw: JW Date: 6/30/06 (B)

## Autosampler Loading List

Sample Information File: 062806YA.SIF

Methods: Pb 2 <sup>1</sup> Tl 5 As 5 Sb 5 ~~Tl 2~~ <sup>5<sup>AD</sup></sup> <sub>6/29/06</sub>

Location	Elements	Solution
1	Pb	Sample: BF62206-DUP2
2	Pb	Sample: 0606346-05DIS
3	Pb	Sample: 0606346-06DIS
4	Pb	Sample: BF62301-BLK1
5	Pb	Sample: BF62301-BS2
6	Pb	Sample: BF62301-BSD2
7	Pb	Sample: BF62302-BLK1
8	Pb	Sample: BF62302-DUP1
9	Pb	Sample: 0606375-01
10	Pb	Sample: BF62403-BLK1
11	Pb	Sample: BF62403-BS2
12	Pb	Sample: BF62403-BSD2
13	Pb	Sample: 0606407-01
14	Pb	Sample: 0606407-02
15	Pb	Sample: BF62403-DUP1
16	Pb	Sample: BF62403-MS3
17	Pb	Sample: BF62403-SD1
18	Pb	Sample: 0606407-03
19	Pb	Sample: 0606407-01DIS
20	Pb	Sample: 0606407-02DIS
21	Pb	Sample: 0606407-03DIS
22	Pb	Sample: 0606382-01
23	Tl, As	Sample: BF62317-BLK1
24	Tl, As	Sample: BF62317-BS1X20
25	Tl, As	Sample: BF62317-BSD1X20
26	Tl, As	Sample: BF62317-SRM1X50
27	Tl, As	Sample: 0606361-01X5
28	As, <sup>7/</sup>	Sample: 0606361-02X5
29	Tl, As	Sample: 0606373-01X5
30	Tl, As	Sample: 0606373-02X5
31	Tl, As	Sample: 0606373-03X5
32	Tl, As	Sample: 0606373-04X5
33	Tl, As	Sample: 0606373-05X5
34	Tl, As	Sample: 0606373-06X5
35	Tl, As	Sample: 0606373-07X5
36	Tl, As	Sample: 0606373-08X5
37	Tl, As	Sample: BF62317-DUP1X5
38	Tl, As	Sample: BF62317-MS1X20
39	Tl, As	Sample: BF62317-SD1X25
40	Tl, As	Sample: 0606373-09X5
41	Tl, As	Sample: 0606373-10X5
42	Tl, As	Sample: 0606373-19X5
43	Tl, As	Sample: 0606373-12X5
44	Tl, As	Sample: 0606373-13X5
45	Tl, As	Sample: 0606373-14X5
46	Tl, As	Sample: 0606373-15X5
47	Tl, As	Sample: 0606373-16X5
48	Tl, As	Sample: 0606373-17X5
49	Tl, As	Sample: 0606373-18X5
50	Tl, As	Sample: BF62317-DUP2X5
51	Tl, As	Sample: BF62317-MS2X20
52	Tl, As	Sample: BF62317-SD2X25
53	Tl, As	Sample: BF62320-BLK1
54	Tl, As	Sample: BF62320-BS1X20
55	Tl, As	Sample: BF62320-BSD1X20
56	Tl, As	Sample: BF62320-SRM1X50
57	Tl, As	Sample: 0606374-01X5
58	Tl, As	Sample: 0606374-02X5
59	Tl, As	Sample: 0606374-03X5
60	Tl, As	Sample: 0606374-04X5
61	Tl, As	Sample: 0606374-05X5

AS taken  
from loc 35-61  
8/4/2006

62	Tl,As	Sample: 0606374-06X5
63	Tl,As	Sample: 0606374-07X5
64	Tl,As	Sample: 0606374-08X5
65	Tl,As	Sample: 0606374-09X5
66	Tl,As	Sample: 0606374-10X5
67	Tl,As	Sample: BF62320-DUP1X5
68	Tl,As	Sample: BF62320-MS1X20
69	Tl,As	Sample: BF62320-SD1X25
70	Tl,As	Sample: 0606374-11X5
71	Tl,As	Sample: 0606374-12X5
72	Tl,As	Sample: 0606374-13X5
73	Tl,As	Sample: 0606374-14X5
74	Tl,As	Sample: BF62320-DUP2X5
75	Tl,As	Sample: BF62320-MS2X20
76	Tl,As	Sample: BF62320-SD2X25
77	Tl,As	Sample: 0606374-15X5
78	Tl,As	Sample: 0606374-16X5
79	Tl,As	Sample: 0606373-20X5
80	Tl,As	Sample: 0606373-21X5
81	Tl,As	Sample: BF62713-BLK1
82	Tl,As	Sample: BF62713-BS1X20
83	Tl,As	Sample: BF62713-BSD1X20
84	Tl,As	Sample: BF62713-SRM1X50
85	Tl,As	Sample: 0606360-01X5
86	Tl,As	Sample: BF62617-BLK1
87	Tl,As	Sample: BF62617-BS1X20
88	Tl,As	Sample: BF62617-BSD1X20
89	Tl,As	Sample: BF62617-SRM1X50
90	Tl,As	Sample: 0606383-01X5
91	Tl,As	Sample: 0606383-02X5
92	Tl,As	Sample: 0606383-03X5
93	Tl,As	Sample: 0606383-04X5
94	Tl,As	Sample: 0606383-05X5
95	Tl,As	Sample: 0606383-06X5
96	Tl,As	Sample: 0606383-07X5
97	Tl,As	Sample: 0606383-08X5
98	Tl,As	Sample: 0606383-09X5
99	Tl,As	Sample: 0606383-10X5
100	Tl,As	Sample: 0606383-11X5
101	Tl,As	Sample: BF62617-DUP1X5
102	Tl,As	Sample: BF62617-MS1X20
103	Tl,As	Sample: BF62617-SD1X25
104	Tl,As	Sample: 0606383-12X5
105	Tl,As	Sample: 0606383-13X5
106	Tl,As	Sample: BF62617-DUP2X5
107	Tl,As	Sample: BF62617-MS2X20
108	Tl,As	Sample: BF62617-SD2X25
109	Tl,As	Sample: 0606383-14X5
110	Tl,As	Sample: 0606405-01X5
111	Tl,As	Sample: 0606405-02X5
112	Tl,As	Sample: 0606405-03X5
113	Tl,As	Sample: 0606405-04X5
114	Pb,As,Sb,Tl	Sample: BF62705-BLK1
115	Pb,As,Sb,Tl	Sample: BF62705-BS2
116	Pb,As,Sb,Tl	Sample: BF62705-BSD2
117	Pb,As	Sample: 0606428-01
118	Pb,As,Sb,Tl	Sample: 0606430-01
119	Pb,As,Sb,Tl	Sample: 0606430-02
120	Pb,As,Sb,Tl	Sample: BF62705-BLK2
121	Pb,Tl,As,Sb	Stock Standard: 5.0 µg/L
122	Pb,As,Sb,Tl	Sample: 0606429-01DIS
123	Pb,As,Sb,Tl	Sample: 0606429-02DIS
124	Pb,Tl,As,Sb	Stock Standard: 10.0 µg/L
	Tl	STD 3: 10.0000 µg/L
	Tl	CCV: 10.0000 µg/L
125	Pb,As,Sb,Tl	Sample: 0606429-03DIS
126	Pb,Tl,As,Sb	Stock Standard: 25.0 µg/L

	Pb,Tl,As,Sb	STD 3: 25.0000 µg/L
	Pb,Tl,As,Sb	CCV: 25.0000 µg/L
127	Pb,As,Sb,Tl	Sample: 0606429-04DIS
128	Pb,As,Sb,Tl	Sample: 0606429-05DIS
129	Pb,Tl,As,Sb	Stock Standard: 50.0 µg/L
130	Pb,As,Sb,Tl	Sample: 0606430-01DIS
131	Pb,Tl,As,Sb	Recovery Stock: 50.0 µg/L
132	Pb,As,Sb,Tl	Sample: 0606430-02DIS
133	Pb,As,Sb,Tl	Sample: BF62705-DUP2
134	Pb,Tl,As,Sb	ICV: 25.0000 µg/L
135	Pb,As,Sb,Tl	Sample: BF62705-MS4
136	Pb,Tl,As,Sb	CRA 2: 2.0000 µg/L
	Tl	Stock Standard: 2.0 µg/L
137	Pb,As,Sb,Tl	Sample: BF62705-SD2X5
139	Tl	ICV: 10.0000 µg/L
141	Pb	Standard 0
	Pb	ICB/CCB: 0.0000 µg/L
	Pb	Diluent
146	Pb	Modifier 2
147	Tl,As,Sb	Modifier 1
148	Tl,As,Sb	Standard 0
	Tl,As,Sb	ICB/CCB: 0.0000 µg/L
	Tl,As,Sb	Diluent



Method Name: Tl 5  
Method Description: Tl 5  
Element: Tl

Date: 06/29/2006  
Technique: Furnace  
Calibration Type:  
Tl, Calc. Intercept : Linear  
Wavelength: 276.8 nm  
Energy: 100  
Slit Width: 0.7  
Lamp Current: 6 mA  
Sample Info Name: 062806YA.SIF

Results Data Set Name: 062806YAD

Element: Tl Seq. No.: 90 AS Loc.: 148 Date: 06/29/2006  
Sample ID: Standard 0  
 $\mu$ L dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0011	0.0011	0.0034	-0.0008	0.0031	12:44:30	No
2			0.0012	0.0012	0.0051	-0.0009	0.0055	12:47:19	No
Mean:			0.0011						
SD :			0.0001						
%RSD:				5.64					

Auto-zero performed.

Element: Tl Seq. No.: 91 AS Loc.: 121 Date: 06/29/2006  
Sample ID: Standard 5  
 $\mu$ L dispensed: 10 from 148, 5 from 147, 15 from 121

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0077	0.0089	0.0129	0.0036	0.0078	12:50:34	No
2			0.0077	0.0088	0.0133	0.0056	0.0102	12:53:25	No
Mean:			0.0077						
SD :			0.0001						
%RSD:				0.76					

[Tl] Standard number 1 applied. [5.0]  
Correlation Coefficient: 1.00000 Slope: 0.00154  
Intercept : 0.00000

Element: Tl Seq. No.: 92 AS Loc.: 124 Date: 06/29/2006  
Sample ID: Standard 10  
 $\mu$ L dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc $\mu$ g/L	StndConc $\mu$ g/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0165	0.0176	0.0230	0.0113	0.0146	12:56:42	No
2			0.0169	0.0180	0.0222	0.0104	0.0138	12:59:33	No
Mean:			0.0167						
SD :			0.0003						
%RSD:				1.70					

[Tl] Standard number 2 applied. [10.0]  
Correlation Coefficient: 0.99908 Slope: 0.00167  
Intercept : -0.00021

Element: Tl Seq. No.: 93 AS Loc.: 126 Date: 06/29/2006  
Sample ID: Standard 25  
 $\mu$ L dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc	StndConc	BlnkCorr	Peak	Peak	Bkgnd	Bkgnd	Time	Peak
				209					

#	$\mu\text{g/L}$	$\mu\text{g/L}$	Signal	Area	Height	Area	Height	Stored
1			0.0413	0.0424	0.0645	0.0271	0.0411	01:02:52 No
2			0.0438	0.0449	0.0581	0.0267	0.0356	01:05:44 No
Mean:			0.0426					
SD :			0.0018					
%RSD:			4.19					

[Tl] Standard number 3 applied. [25.0]  
 Correlation Coefficient: 0.99981                      Slope: 0.00171  
 Intercept : -0.00041

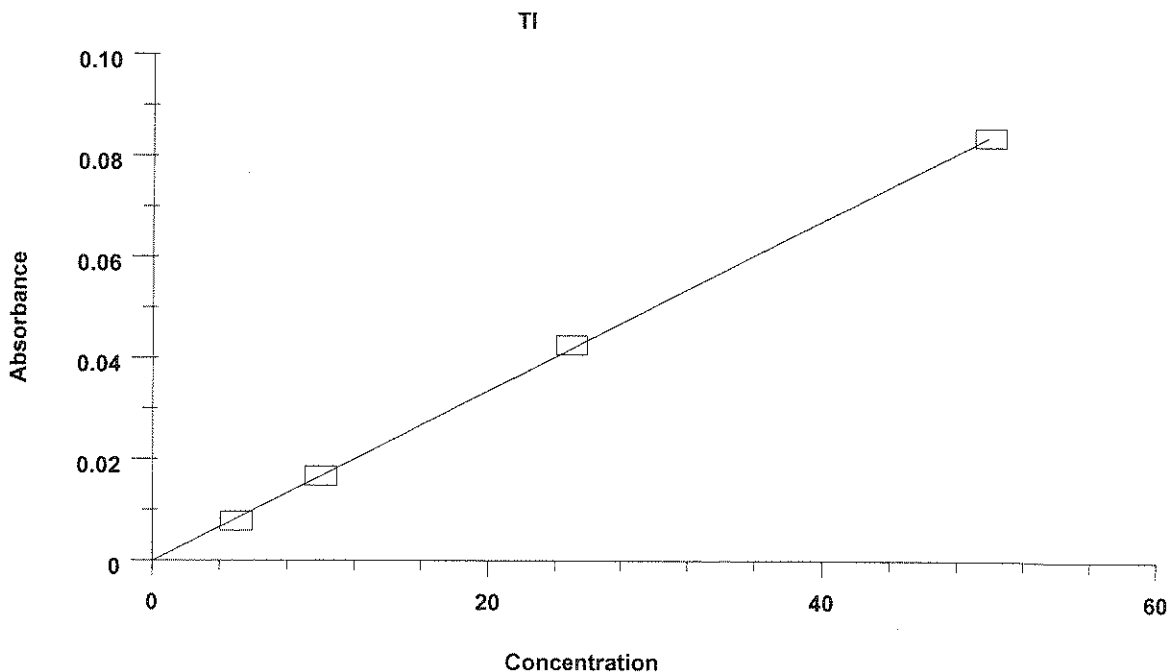
=====  
 Element: Tl    Seq. No.: 94            AS Loc.: 129    Date: 06/29/2006  
 Sample ID: Standard 50  
 $\mu\text{L}$  dispensed: 10 from 148, 5 from 147, 15 from 129

Repl #	SampleConc $\mu\text{g/L}$	StndConc $\mu\text{g/L}$	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0836	0.0847	0.1067	0.0514	0.0659	01:09:01	No
2			0.0837	0.0848	0.1211	0.0525	0.0747	01:11:51	No
Mean:			0.0836						
SD :			0.0000						
%RSD:			0.05						

[Tl] Standard number 4 applied. [50.0]  
 Correlation Coefficient: 0.99991                      Slope: 0.00168  
 Intercept : -0.00015

-----  
 Calibration data for Tl

Standard ID	Mean Signal (Pk Area)	Entered Concentration ( $\mu\text{g/L}$ )	Calculated Concentration ( $\mu\text{g/L}$ )	Standard Deviation	%RSD
Standard 0	0.0011	-	----	----	----
Standard 5	0.0077	5.0	4.7	0.00	0.76
Standard 10	0.0167	10.0	10.0	0.00	1.70
Standard 25	0.0426	25.0	25.4	0.00	4.19
Standard 50	0.0836	50.0	49.8	0.00	0.05
Correlation Coefficient:		0.99991	Slope: 0.00168	Intercept: -0.0002	



=====  
 Element: Tl Seq. No.: 95 AS Loc.: 126 Date: 06/29/2006  
 Sample ID: STD 3  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.9	25.9	0.0435	0.0446	0.0690	0.0256	0.0435	01:14:50	No
2	24.8	24.8	0.0416	0.0427	0.0601	0.0257	0.0364	01:17:43	No
Mean:	25.4	25.4	0.0425						
SD :	0.78	0.78	0.0013						
%RSD:	3.06	3.06	3.07 ✓						

QC value within specified limits.

=====  
 Element: Tl Seq. No.: 96 AS Loc.: 134 Date: 06/29/2006  
 Sample ID: ICV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 134

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.2	25.2	0.0422	0.0433	0.0482	0.0246	0.0293	01:20:33	No
2	25.3	25.3	0.0424	0.0435	0.0498	0.0263	0.0307	01:23:23	No
Mean:	25.2	25.2	0.0423						
SD :	0.09	0.09	0.0001						
%RSD:	0.34	0.34	0.34 ✓						

QC value within specified limits.. ✓

=====  
 Element: Tl Seq. No.: 97 AS Loc.: 148 Date: 06/29/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0006	0.0005	0.0037	-0.0001	0.0031	01:26:13	No
2	-0.2	-0.2	-0.0005	0.0006	0.0043	-0.0010	0.0049	01:29:02	No
Mean:	-0.3	-0.3	-0.0006						
SD :	0.06	0.06	0.0001						
%RSD:	22.19	22.19	16.29 ✓						

QC value within specified limits. ✓

=====  
 Element: Tl Seq. No.: 98 AS Loc.: 23 Date: 06/29/2006  
 Sample ID: BF62317-BLK1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 23

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0005	0.0007	0.0042	-0.0005	0.0047	01:31:52	No
2	-0.8	-0.8	-0.0015	-0.0004	0.0050	-0.0006	0.0052	01:34:42	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.43	0.43	0.0007						
%RSD:	88.56	88.56	74.70						

*ND*

=====  
 Element: Tl Seq. No.: 99 AS Loc.: 24 Date: 06/29/2006  
 Sample ID: BF62317-BS1X20  
 µL dispensed: 10 from 148, 5 from 147, 15 from 24

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.3	25.3	0.0424	0.0435	0.0547	0.0276	0.0352	01:37:32	No
2	26.6	26.6	0.0445	0.0456	0.0556	0.0256	0.0344	01:40:23	No
Mean:	25.9	25.9	0.0434						
SD :	0.91	0.91	0.0015						
%RSD:	3.49	3.49	3.50	211					

*104%*

=====  
Element: Tl Seq. No.: 100 AS Loc.: 25 Date: 06/29/2006  
Sample ID: BF62317-BSD1X20

µL dispensed: 10 from 148, 5 from 147, 15 from 25

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.3	25.3	0.0424	0.0435	0.0560	0.0271	0.0325	01:43:14	No
2	26.2	26.2	0.0439	0.0450	0.0573	0.0254	0.0333	01:46:04	No
Mean:	25.8	25.8	0.0431						
SD :	0.63	0.63	0.0011						
%RSD:	2.44	2.44	2.45						

103/

=====  
Element: Tl Seq. No.: 101 AS Loc.: 26 Date: 06/29/2006  
Sample ID: BF62317-SRM1X50

µL dispensed: 10 from 148, 5 from 147, 15 from 26

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	15.5	15.5	0.0259	0.0270	0.0380	0.0169	0.0234	01:48:54	No
2	16.1	16.1	0.0269	0.0280	0.0390	0.0155	0.0243	01:51:43	No
Mean:	15.8	15.8	0.0264						
SD :	0.41	0.41	0.0007						
%RSD:	2.61	2.61	2.62						

$\frac{15.8(50)100}{1} / 1000 = 79$

=====  
Element: Tl Seq. No.: 102 AS Loc.: 27 Date: 06/29/2006  
Sample ID: 0606361-01X5

µL dispensed: 10 from 148, 5 from 147, 15 from 27

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0013	-0.0002	0.0036	-0.0001	0.0046	01:54:32	No
2	0.6	0.6	0.0008	0.0019	0.0045	-0.0011	0.0038	01:57:21	No
Mean:	0.0	0.0	-0.0002						
SD :	0.88	0.88	0.0015						
%RSD:	1842	1842	636.70						

M

=====  
Element: Tl Seq. No.: 103 AS Loc.: 28 Date: 06/29/2006  
Sample ID: 0606361-02X5

µL dispensed: 10 from 148, 5 from 147, 15 from 28

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0003	0.0014	0.0043	0.0002	0.0058	02:00:10	No
2	-0.1	-0.1	-0.0003	0.0008	0.0041	0.0008	0.0060	02:03:00	No
Mean:	0.1	0.1	0.0000						
SD :	0.25	0.25	0.0004						
%RSD:	332.5	332.5	1463.93						

M

=====  
Element: Tl Seq. No.: 104 AS Loc.: 29 Date: 06/29/2006  
Sample ID: 0606373-01X5

µL dispensed: 10 from 148, 5 from 147, 15 from 29

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0004	0.0008	0.0044	0.0006	0.0047	02:05:49	No
2	-1.0	-1.0	-0.0019	-0.0007	0.0040	0.0009	0.0038	02:08:38	No
Mean:	-0.6	-0.6	-0.0011						
SD :	0.64	0.64	0.0011						
%RSD:	112.3	112.3	96.86						

M

=====  
Element: Tl Seq. No.: 105 AS Loc.: 30 Date: 06/29/2006  
Sample ID: 0606373-02X5

µL dispensed: 10 from 148, 5 from 147, 212 from 30

Repl #	SampleConc $\mu\text{g/L}$	StndConc $\mu\text{g/L}$	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0009	0.0002	0.0035	-0.0003	0.0047	02:11:27	No
2	-0.8	-0.8	-0.0015	-0.0004	0.0035	0.0000	0.0044	02:14:17	No
Mean:	-0.6	-0.6	-0.0012						
SD :	0.25	0.25	0.0004						
%RSD:	40.32	40.32	35.21						

=====  
 Element: Tl Seq. No.: 106 AS Loc.: 31 Date: 06/29/2006  
 Sample ID: 0606373-03X5  
 $\mu\text{L}$  dispensed: 10 from 148, 5 from 147, 15 from 31

Repl #	SampleConc $\mu\text{g/L}$	StndConc $\mu\text{g/L}$	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0009	0.0003	0.0034	0.0018	0.0053	02:17:06	No
2	-1.3	-1.3	-0.0023	-0.0012	0.0055	0.0005	0.0040	02:19:55	No
Mean:	-0.9	-0.9	-0.0016						
SD :	0.61	0.61	0.0010						
%RSD:	71.17	71.17	64.32						

=====  
 Element: Tl Seq. No.: 107 AS Loc.: 32 Date: 06/29/2006  
 Sample ID: 0606373-04X5  
 $\mu\text{L}$  dispensed: 10 from 148, 5 from 147, 15 from 32

Repl #	SampleConc $\mu\text{g/L}$	StndConc $\mu\text{g/L}$	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	-0.0011	0.0000	0.0032	0.0020	0.0042	02:22:45	No
2	-1.0	-1.0	-0.0019	-0.0007	0.0035	0.0012	0.0047	02:25:35	No
Mean:	-0.8	-0.8	-0.0015						
SD :	0.31	0.31	0.0005						
%RSD:	38.21	38.21	34.33						

=====  
 Element: Tl Seq. No.: 108 AS Loc.: 126 Date: 06/29/2006  
 Sample ID: CCV  
 $\mu\text{L}$  dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc $\mu\text{g/L}$	StndConc $\mu\text{g/L}$	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.5	25.5	0.0427	0.0438	0.0649	0.0271	0.0410	02:28:27	No
2	26.2	26.2	0.0440	0.0451	0.0578	0.0267	0.0383	02:31:19	No
Mean:	25.9	25.9	0.0433						
SD :	0.53	0.53	0.0009						
%RSD:	2.05	2.05	2.06						

QC value within specified limits.

=====  
 Element: Tl Seq. No.: 109 AS Loc.: 148 Date: 06/29/2006  
 Sample ID: ICB/CCB  
 $\mu\text{L}$  dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc $\mu\text{g/L}$	StndConc $\mu\text{g/L}$	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0002	0.0013	0.0043	-0.0003	0.0043	02:34:09	No
2	-0.5	-0.5	-0.0010	0.0002	0.0044	-0.0008	0.0050	02:36:59	No
Mean:	-0.1	-0.1	-0.0004						
SD :	0.48	0.48	0.0008						
%RSD:	321.3	321.3	199.35						

QC value within specified limits.

=====  
 Element: Tl Seq. No.: 110 AS Loc.: 33 Date: 06/29/2006  
 Sample ID: 0606373-05X5  
 $\mu\text{L}$  dispensed: 10 from 148, 5 from 147, 213 from 33

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0000	0.0011	0.0042	0.0000	0.0057	02:39:48	No
2	-0.5	-0.5	-0.0010	0.0002	0.0020	0.0008	0.0025	02:42:38	No
Mean:	-0.2	-0.2	-0.0005						
SD :	0.39	0.39	0.0007						
%RSD:	186.3	186.3	130.35						

=====  
 Element: Tl Seq. No.: 111 AS Loc.: 34 Date: 06/29/2006  
 Sample ID: 0606373-06X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 34

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0000	0.0012	0.0026	-0.0004	0.0023	02:45:28	No
2	0.0	0.0	-0.0001	0.0010	0.0035	-0.0011	0.0042	02:48:19	No
Mean:	0.1	0.1	-0.0001						
SD :	0.08	0.08	0.0001						
%RSD:	125.1	125.1	256.25						

=====  
 Element: Tl Seq. No.: 112 AS Loc.: 35 Date: 06/29/2006  
 Sample ID: 0606373-07X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 35

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0000	0.0011	0.0060	0.0023	0.0067	02:51:09	No
2	1.1	1.1	0.0017	0.0028	0.0057	-0.0013	0.0050	02:53:59	No
Mean:	0.6	0.6	0.0008						
SD :	0.73	0.73	0.0012						
%RSD:	126.4	126.4	149.83						

=====  
 Element: Tl Seq. No.: 113 AS Loc.: 36 Date: 06/29/2006  
 Sample ID: 0606373-08X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 36

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0003	0.0009	0.0045	0.0002	0.0053	02:56:49	No
2	0.1	0.1	0.0001	0.0012	0.0031	0.0004	0.0035	02:59:40	No
Mean:	0.0	0.0	-0.0001						
SD :	0.15	0.15	0.0002						
%RSD:	326.0	326.0	321.16						

=====  
 Element: Tl Seq. No.: 114 AS Loc.: 36 Date: 06/29/2006  
 Sample ID: 0606373-08X5  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 36

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.8	20.8	0.0348	0.0360	0.0591	0.0220	0.0368	03:02:38	No
2	20.3	20.3	0.0340	0.0351	0.0583	0.0260	0.0348	03:05:36	No
Mean:	20.6	20.6	0.0344						
SD :	0.36	0.36	0.0006						
%RSD:	1.74	1.74	1.75						

Recovery for Tl = 102.8 % within 85 % to 115 %

=====  
 Element: Tl Seq. No.: 115 AS Loc.: 37 Date: 06/29/2006  
 Sample ID: BF62317-DUP1X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 37

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0004	0.0016	0.0043	0.0018	0.0044	03:08:26	No
2	-0.5	-0.5	-0.0009	0.0002	0.0043	0.0001	0.0034	03:11:17	No
Mean:	-0.1	-0.1	-0.0002						
SD :	0.57	0.57	0.0010						
%RSD:	1134	1134	404.10						

=====  
 Element: Tl Seq. No.: 116 AS Loc.: 38 Date: 06/29/2006  
 Sample ID: BF62317-MS1X20  
 µL dispensed: 10 from 148, 5 from 147, 15 from 38

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.5	23.5	0.0394	0.0405	0.0587	0.0249	0.0368	03:14:07	No
2	23.3	23.3	0.0390	0.0401	0.0593	0.0270	0.0404	03:16:57	No
Mean:	23.4	23.4	0.0392						
SD :	0.18	0.18	0.0003						
%RSD:	0.78	0.78	0.78						

=====  
 Element: Tl Seq. No.: 117 AS Loc.: 39 Date: 06/29/2006  
 Sample ID: BF62317-SD1X25  
 µL dispensed: 10 from 148, 5 from 147, 15 from 39

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	-0.0001	0.0010	0.0043	-0.0005	0.0039	03:19:47	No
2	0.0	0.0	-0.0002	0.0009	0.0050	-0.0009	0.0042	03:22:38	No
Mean:	0.0	0.0	-0.0001						
SD :	0.04	0.04	0.0001						
%RSD:	753.4	753.4	42.65						

=====  
 Element: Tl Seq. No.: 118 AS Loc.: 40 Date: 06/29/2006  
 Sample ID: 0606373-09X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 40

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0005	0.0006	0.0046	0.0011	0.0045	03:25:28	No
2	-0.4	-0.4	-0.0008	0.0004	0.0050	0.0009	0.0044	03:28:18	No
Mean:	-0.3	-0.3	-0.0006						
SD :	0.10	0.10	0.0002						
%RSD:	35.80	35.80	27.28						

=====  
 Element: Tl Seq. No.: 119 AS Loc.: 41 Date: 06/29/2006  
 Sample ID: 0606373-10X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 41

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0004	0.0007	0.0042	-0.0006	0.0034	03:31:07	No
2	0.0	0.0	-0.0002	0.0009	0.0029	0.0000	0.0023	03:33:57	No
Mean:	-0.1	-0.1	-0.0003						
SD :	0.08	0.08	0.0001						
%RSD:	94.93	94.93	45.62						

=====  
 Element: Tl Seq. No.: 120 AS Loc.: 42 Date: 06/29/2006  
 Sample ID: 0606373-19X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 42

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
				245					

1	-0.4	-0.4	-0.0008	0.0003	0.0033	0.0000	0.0051	03:36:47	No
2	-0.6	-0.6	-0.0012	0.0000	0.0035	-0.0004	0.0047	03:39:36	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.15	0.15	0.0003						
%RSD:	31.03	31.03	26.18						

*W*

=====  
 Element: Tl Seq. No.: 121 AS Loc.: 126 Date: 06/29/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.2	25.2	0.0423	0.0434	0.0640	0.0274	0.0389	03:42:28	No
2	26.6	26.6	0.0446	0.0458	0.0685	0.0278	0.0419	03:45:20	No
Mean:	25.9	25.9	0.0434						
SD :	1.00	1.00	0.0017						
%RSD:	3.85	3.85	3.87						

QC value within specified limits.

=====  
 Element: Tl Seq. No.: 122 AS Loc.: 148 Date: 06/29/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0008	0.0004	0.0046	0.0002	0.0040	03:48:11	No
2	-0.4	-0.4	-0.0008	0.0003	0.0037	0.0012	0.0040	03:51:00	No
Mean:	-0.4	-0.4	-0.0008						
SD :	0.02	0.02	0.0000						
%RSD:	5.05	5.05	4.07						

QC value within specified limits.

=====  
 Element: Tl Seq. No.: 123 AS Loc.: 43 Date: 06/29/2006  
 Sample ID: 0606373-12X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 43

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0005	0.0016	0.0051	0.0014	0.0046	03:53:49	No
2	0.2	0.2	0.0002	0.0013	0.0036	-0.0005	0.0037	03:56:38	No
Mean:	0.3	0.3	0.0003						
SD :	0.13	0.13	0.0002						
%RSD:	42.89	42.89	62.15						

*W*

=====  
 Element: Tl Seq. No.: 124 AS Loc.: 44 Date: 06/29/2006  
 Sample ID: 0606373-13X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 44

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0005	0.0007	0.0044	0.0006	0.0040	03:59:29	No
2	-0.4	-0.4	-0.0009	0.0002	0.0047	-0.0001	0.0050	04:02:20	No
Mean:	-0.3	-0.3	-0.0007						
SD :	0.18	0.18	0.0003						
%RSD:	58.67	58.67	45.50						

*W*

=====  
 Element: Tl Seq. No.: 125 AS Loc.: 45 Date: 06/29/2006  
 Sample ID: 0606373-14X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 45

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
				246					



1	0.3	0.3	0.0004	0.0015	0.0051	-0.0007	0.0044	04:05:10	No
2	-0.3	-0.3	-0.0007	0.0004	0.0033	0.0001	0.0046	04:08:01	No
Mean:	0.0	0.0	-0.0001						
SD :	0.47	0.47	0.0008						
%RSD:	16970	16970	527.95						

=====  
 Element: Tl Seq. No.: 126 AS Loc.: 46 Date: 06/29/2006  
 Sample ID: 0606373-15X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 46  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0005	0.0006	0.0026	0.0001	0.0021	04:10:53	No
2	0.2	0.2	0.0001	0.0012	0.0027	-0.0006	0.0022	04:13:44	No
Mean:	0.0	0.0	-0.0002						
SD :	0.27	0.27	0.0004						
%RSD:	723.8	723.8	208.55						

=====  
 Element: Tl Seq. No.: 127 AS Loc.: 47 Date: 06/29/2006  
 Sample ID: 0606373-16X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 47  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0007	0.0005	0.0042	0.0005	0.0041	04:16:34	No
2	-0.3	-0.3	-0.0007	0.0004	0.0042	-0.0012	0.0051	04:19:24	No
Mean:	-0.3	-0.3	-0.0007						
SD :	0.02	0.02	0.0000						
%RSD:	7.07	7.07	5.50						

=====  
 Element: Tl Seq. No.: 128 AS Loc.: 48 Date: 06/29/2006  
 Sample ID: 0606373-17X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 48  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0007	0.0004	0.0022	0.0008	0.0022	04:22:15	No
2	-0.2	-0.2	-0.0006	0.0006	0.0027	-0.0004	0.0021	04:25:04	No
Mean:	-0.3	-0.3	-0.0006						
SD :	0.06	0.06	0.0001						
%RSD:	21.35	21.35	16.26						

=====  
 Element: Tl Seq. No.: 129 AS Loc.: 49 Date: 06/29/2006  
 Sample ID: 0606373-18X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 49  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0008	0.0003	0.0027	0.0001	0.0025	04:27:53	No
2	0.0	0.0	-0.0002	0.0010	0.0028	0.0011	0.0024	04:30:43	No
Mean:	-0.2	-0.2	-0.0005						
SD :	0.26	0.26	0.0004						
%RSD:	132.5	132.5	90.58						

=====  
 Element: Tl Seq. No.: 130 AS Loc.: 49 Date: 06/29/2006  
 Sample ID: 0606373-18X5  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 49  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.2	20.2	0.0337	0.0349	0.0691	0.0215	0.0428	04:33:42	No
2	19.2	19.2	0.0321	0.2432	0.0676	0.0210	0.0435	04:36:40	No

Mean: 19.7 19.7 0.0329  
 SD : 0.71 0.71 0.0012  
 %RSD: 3.59 3.59 3.61  
 Recovery for T1 = 98.3 % within 85 % to 115 %

=====  
 Element: T1 Seq. No.: 131 AS Loc.: 50 Date: 06/29/2006  
 Sample ID: BF62317-DUP2X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 50

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0003	0.0009	0.0052	-0.0001	0.0052	04:39:32	No
2	0.2	0.2	0.0002	0.0013	0.0034	0.0006	0.0021	04:42:22	No
Mean:	0.1	0.1	0.0000						
SD :	0.18	0.18	0.0003						
%RSD:	275.7	275.7	738.76						

=====  
 Element: T1 Seq. No.: 132 AS Loc.: 51 Date: 06/29/2006  
 Sample ID: BF62317-MS2X20  
 µL dispensed: 10 from 148, 5 from 147, 15 from 51

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.1	23.1	0.0386	0.0398	0.0712	0.0254	0.0447	04:45:13	No
2	23.8	23.8	0.0399	0.0410	0.0731	0.0249	0.0462	04:48:02	No
Mean:	23.4	23.4	0.0393						
SD :	0.53	0.53	0.0009						
%RSD:	2.28	2.28	2.29						

=====  
 Element: T1 Seq. No.: 133 AS Loc.: 52 Date: 06/29/2006  
 Sample ID: BF62317-SD2X25  
 µL dispensed: 10 from 148, 5 from 147, 15 from 52

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0006	0.0017	0.0035	0.0000	0.0022	04:50:51	No
2	-0.4	-0.4	-0.0009	0.0003	0.0038	-0.0012	0.0042	04:53:42	No
Mean:	0.0	0.0	-0.0002						
SD :	0.60	0.60	0.0010						
%RSD:	17240	17240	639.89						

=====  
 Element: T1 Seq. No.: 134 AS Loc.: 126 Date: 06/29/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.8	25.8	0.0433	0.0444	0.0681	0.0282	0.0407	04:56:33	No
2	25.9	25.9	0.0433	0.0444	0.0598	0.0276	0.0395	04:59:25	No
Mean:	25.8	25.8	0.0433						
SD :	0.01	0.01	0.0000						
%RSD:	0.04	0.04	0.04						

QC value within specified limits.

=====  
 Element: T1 Seq. No.: 135 AS Loc.: 148 Date: 06/29/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	0.0009	0.0020	0.0035	0.0001	0.0042	05:02:15	No
2	0.3	0.3	0.0003	0.2184	0.0058	-0.0005	0.0038	05:05:06	No

Mean: 0.4 0.4 0.0006  
 SD : 0.26 0.26 0.0004  
 %RSD: 58.06 58.06 72.88  
 QC value within specified limits.

=====  
 Element: Tl Seq. No.: 136 AS Loc.: 53 Date: 06/29/2006  
 Sample ID: BF62320-BLK1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 53

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0010	0.0001	0.0024	-0.0005	0.0024	05:07:59	No
2	-0.2	-0.2	-0.0005	0.0006	0.0026	0.0001	0.0023	05:10:49	No
Mean:	-0.4	-0.4	-0.0007						
SD :	0.22	0.22	0.0004						
%RSD:	61.75	61.75	49.09						

*W*

=====  
 Element: Tl Seq. No.: 137 AS Loc.: 54 Date: 06/29/2006  
 Sample ID: BF62320-BS1X20  
 µL dispensed: 10 from 148, 5 from 147, 15 from 54

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.0	25.0	0.0420	0.0431	0.0510	0.0258	0.0324	05:13:37	No
2	25.2	25.2	0.0422	0.0433	0.0563	0.0263	0.0355	05:16:26	No
Mean:	25.1	25.1	0.0421						
SD :	0.08	0.08	0.0001						
%RSD:	0.33	0.33	0.33						

*100%*

=====  
 Element: Tl Seq. No.: 138 AS Loc.: 55 Date: 06/29/2006  
 Sample ID: BF62320-BSD1X20  
 µL dispensed: 10 from 148, 5 from 147, 15 from 55

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.0	27.0	0.0452	0.0463	0.0565	0.0277	0.0337	05:19:14	No
2	26.9	26.9	0.0450	0.0462	0.0599	0.0279	0.0359	05:22:03	No
Mean:	26.9	26.9	0.0451						
SD :	0.05	0.05	0.0001						
%RSD:	0.19	0.19	0.19						

*108%*

=====  
 Element: Tl Seq. No.: 139 AS Loc.: 56 Date: 06/29/2006  
 Sample ID: BF62320-SRM1X50  
 µL dispensed: 10 from 148, 5 from 147, 15 from 56

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	17.4	17.4	0.0290	0.0302	0.0466	0.0180	0.0270	05:24:51	No
2	18.0	18.0	0.0300	0.0312	0.0435	0.0183	0.0264	05:27:39	No
Mean:	17.7	17.7	0.0295						
SD :	0.41	0.41	0.0007						
%RSD:	2.34	2.34	2.35						

*17.7(50)/100 / 1000 = 88.5*

=====  
 Element: Tl Seq. No.: 140 AS Loc.: 57 Date: 06/29/2006  
 Sample ID: 0606374-01X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 57

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.1	3.1	0.0051	0.0062	0.0114	0.0040	0.0090	05:30:29	No
2	2.8	2.8	0.0046	0.0057	0.0128	0.0038	0.0094	05:33:19	No
Mean:	3.0	3.0	0.0048	219					

*W*

SD : 0.21 0.21 0.0003  
 %RSD: 6.94 6.94 7.16

=====  
 Element: Tl Seq. No.: 141 AS Loc.: 58 Date: 06/29/2006  
 Sample ID: 0606374-02X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 58

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	-0.0002	0.0010	0.0048	0.0007	0.0032	05:36:11	No
2	-0.4	-0.4	-0.0009	0.0002	0.0049	0.0012	0.0051	05:39:01	No
Mean:	-0.2	-0.2	-0.0005						
SD :	0.31	0.31	0.0005						
%RSD:	138.0	138.0	97.92						

=====  
 Element: Tl Seq. No.: 142 AS Loc.: 59 Date: 06/29/2006  
 Sample ID: 0606374-03X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 59

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0001	0.0012	0.0044	-0.0005	0.0039	05:41:52	No
2	0.6	0.6	0.0009	0.0020	0.0042	0.0016	0.0068	05:44:41	No
Mean:	0.4	0.4	0.0005						
SD :	0.32	0.32	0.0005						
%RSD:	83.93	83.93	109.96						

=====  
 Element: Tl Seq. No.: 143 AS Loc.: 60 Date: 06/29/2006  
 Sample ID: 0606374-04X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 60

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0008	0.0004	0.0023	0.0002	0.0023	05:47:30	No
2	-0.5	-0.5	-0.0010	0.0002	0.0027	0.0012	0.0024	05:50:20	No
Mean:	-0.4	-0.4	-0.0009						
SD :	0.09	0.09	0.0002						
%RSD:	21.43	21.43	17.66						

=====  
 Element: Tl Seq. No.: 144 AS Loc.: 61 Date: 06/29/2006  
 Sample ID: 0606374-05X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 61

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0001	0.0013	0.0048	-0.0019	0.0062	05:53:10	No
2	0.0	0.0	-0.0002	0.0010	0.0043	0.0014	0.0047	05:56:00	No
Mean:	0.1	0.1	0.0000						
SD :	0.13	0.13	0.0002						
%RSD:	147.1	147.1	3202.46						

=====  
 Element: Tl Seq. No.: 145 AS Loc.: 62 Date: 06/29/2006  
 Sample ID: 0606374-06X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 62

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.9	-0.9	-0.0016	-0.0005	0.0040	-0.0006	0.0040	05:58:50	No
2	-1.7	-1.7	-0.0029	-0.0018	0.0036	0.0013	0.0048	06:01:39	No
Mean:	-1.3	-1.3	-0.0023						
SD :	0.56	0.56	0.0009						
%RSD:	44.45	44.45	41.46						

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=====  
Element: Tl Seq. No.: 146 AS Loc.: 126 Date: 06/29/2006  
Sample ID: CCV  
µL dispensed: 10 from 148, 5 from 147, 15 from 126

-----  
Repl SampleConc StndConc BlnkCorr Peak Peak Bkgnd Bkgnd Time Peak  
# µg/L µg/L Signal Area Height Area Height  
1 26.7 26.7 0.0448 0.0459 0.0687 0.0277 0.0417 06:04:34 No  
2 26.7 26.7 0.0447 0.0458 0.0631 0.0271 0.0377 06:07:26 No  
Mean: 26.7 26.7 0.0447  
SD : 0.05 0.05 0.0001  
%RSD: 0.19 0.19 0.19  
QC value within specified limits.

=====  
Element: Tl Seq. No.: 147 AS Loc.: 148 Date: 06/29/2006  
Sample ID: ICB/CCB  
µL dispensed: 10 from 148, 5 from 147, 15 from 148

-----  
Repl SampleConc StndConc BlnkCorr Peak Peak Bkgnd Bkgnd Time Peak  
# µg/L µg/L Signal Area Height Area Height  
1 -0.3 -0.3 -0.0006 0.0005 0.0043 0.0002 0.0057 06:10:16 No  
2 -0.3 -0.3 -0.0007 0.0005 0.0040 0.0020 0.0053 06:13:06 No  
Mean: -0.3 -0.3 -0.0006  
SD : 0.01 0.01 0.0000  
%RSD: 3.59 3.59 2.73  
QC value within specified limits.

=====  
Element: Tl Seq. No.: 148 AS Loc.: 63 Date: 06/29/2006  
Sample ID: 0606374-07X5  
µL dispensed: 10 from 148, 5 from 147, 15 from 63

-----  
Repl SampleConc StndConc BlnkCorr Peak Peak Bkgnd Bkgnd Time Peak  
# µg/L µg/L Signal Area Height Area Height  
1 0.6 0.6 0.0009 0.0020 0.0053 -0.0005 0.0062 06:15:54 No  
2 -0.2 -0.2 -0.0005 0.0007 0.0037 0.0010 0.0040 06:18:45 No  
Mean: 0.2 0.2 0.0002  
SD : 0.57 0.57 0.0010  
%RSD: 251.1 251.1 416.53

=====  
Element: Tl Seq. No.: 149 AS Loc.: 64 Date: 06/29/2006  
Sample ID: 0606374-08X5  
µL dispensed: 10 from 148, 5 from 147, 15 from 64

-----  
Repl SampleConc StndConc BlnkCorr Peak Peak Bkgnd Bkgnd Time Peak  
# µg/L µg/L Signal Area Height Area Height  
1 -0.9 -0.9 -0.0017 -0.0006 0.0038 0.0011 0.0055 06:21:35 No  
2 -0.2 -0.2 -0.0005 0.0007 0.0041 0.0003 0.0041 06:24:25 No  
Mean: -0.6 -0.6 -0.0011  
SD : 0.53 0.53 0.0009  
%RSD: 95.40 95.40 81.98

=====  
Element: Tl Seq. No.: 150 AS Loc.: 65 Date: 06/29/2006  
Sample ID: 0606374-09X5  
µL dispensed: 10 from 148, 5 from 147, 15 from 65

-----  
Repl SampleConc StndConc BlnkCorr Peak Peak Bkgnd Bkgnd Time Peak  
# µg/L µg/L Signal Area Height Area Height  
1 -0.2 -0.2 -0.0005 0.0007 0.0045 0.0017 0.0053 06:27:16 No  
2 -0.2 -0.2 -0.0005 0.0007 0.0045 0.0011 0.0042 06:30:06 No  
Mean: -0.2 -0.2 -0.0005  
SD : 0.01 0.01 0.0000  
%RSD: 5.07 5.07 3.40

=====  
Element: Tl Seq. No.: 151 AS Loc.: 221 66 Date: 06/29/2006

Sample ID: 0606374-10X5

 $\mu$ L dispensed: 10 from 148, 5 from 147, 15 from 66

Repl #	SampleConc $\mu$ g/L	StndConc $\mu$ g/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0004	0.0007	0.0025	-0.0003	0.0021	06:32:56	No
2	-0.7	-0.7	-0.0013	-0.0002	0.0038	-0.0005	0.0046	06:35:46	No
Mean:	-0.4	-0.4	-0.0009						
SD :	0.37	0.37	0.0006						
%RSD:	89.12	89.12	73.24						

=====  
Element: Tl Seq. No.: 152 AS Loc.: 66 Date: 06/29/2006

Sample ID: 0606374-10X5

 $\mu$ L dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 66

Repl #	SampleConc $\mu$ g/L	StndConc $\mu$ g/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.9	20.9	0.0350	0.0362	0.0684	0.0250	0.0431	06:38:46	No
2	21.3	21.3	0.0357	0.0368	0.0669	0.0217	0.0404	06:41:46	No
Mean:	21.1	21.1	0.0353						
SD :	0.27	0.27	0.0005						
%RSD:	1.28	1.28	1.28						

Recovery for Tl = 105.6 % within 85 % to 115 %

=====  
Element: Tl Seq. No.: 153 AS Loc.: 67 Date: 06/29/2006

Sample ID: BF62320-DUPLX5

 $\mu$ L dispensed: 10 from 148, 5 from 147, 15 from 67

Repl #	SampleConc $\mu$ g/L	StndConc $\mu$ g/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0013	-0.0002	0.0052	0.0011	0.0057	06:44:36	No
2	0.9	0.9	0.0014	0.0025	0.0039	0.0010	0.0053	06:47:26	No
Mean:	0.1	0.1	0.0000						
SD :	1.16	1.16	0.0020						
%RSD:	1034	1034	5379.36						

=====  
Element: Tl Seq. No.: 154 AS Loc.: 68 Date: 06/29/2006

Sample ID: BF62320-MS1X20

 $\mu$ L dispensed: 10 from 148, 5 from 147, 15 from 68

Repl #	SampleConc $\mu$ g/L	StndConc $\mu$ g/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.1	25.1	0.0421	0.0432	0.0671	0.0260	0.0410	06:50:19	No
2	24.2	24.2	0.0406	0.0417	0.0672	0.0274	0.0432	06:53:10	No
Mean:	24.7	24.7	0.0413						
SD :	0.64	0.64	0.0011						
%RSD:	2.60	2.60	2.61						

=====  
Element: Tl Seq. No.: 155 AS Loc.: 69 Date: 06/29/2006

Sample ID: BF62320-SD1X25

 $\mu$ L dispensed: 10 from 148, 5 from 147, 15 from 69

Repl #	SampleConc $\mu$ g/L	StndConc $\mu$ g/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	-0.0001	0.0010	0.0042	-0.0006	0.0048	06:56:01	No
2	0.3	0.3	0.0004	0.0015	0.0029	-0.0009	0.0036	06:58:52	No
Mean:	0.2	0.2	0.0001						
SD :	0.21	0.21	0.0003						
%RSD:	128.4	128.4	292.78						

=====  
Element: Tl Seq. No.: 156 AS Loc.: 70 Date: 06/29/2006

Sample ID: 0606374-11X5

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µL dispensed: 10 from 148, 5 from 147, 15 from 70

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	0.0009	0.0020	0.0048	0.0014	0.0030	07:01:44	No
2	1.2	1.2	0.0018	0.0030	0.0040	0.0002	0.0042	07:04:35	No
Mean:	0.9	0.9	0.0014						
SD :	0.40	0.40	0.0007						
%RSD:	44.09	44.09	49.05						

=====  
 Element: Tl Seq. No.: 157 AS Loc.: 71 Date: 06/29/2006  
 Sample ID: 0606374-12X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 71

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	-0.0011	0.0000	0.0053	0.0002	0.0053	07:07:26	No
2	0.4	0.4	0.0004	0.0016	0.0036	-0.0013	0.0047	07:10:18	No
Mean:	-0.1	-0.1	-0.0003						
SD :	0.65	0.65	0.0011						
%RSD:	637.6	637.6	336.26						

=====  
 Element: Tl Seq. No.: 158 AS Loc.: 72 Date: 06/29/2006  
 Sample ID: 0606374-13X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 72

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0003	0.0009	0.0043	-0.0002	0.0043	07:13:09	No
2	-0.9	-0.9	-0.0016	-0.0005	0.0036	0.0011	0.0054	07:16:00	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.58	0.58	0.0010						
%RSD:	121.1	121.1	101.70						

=====  
 Element: Tl Seq. No.: 159 AS Loc.: 126 Date: 06/29/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.6	26.6	0.0446	0.0457	0.0695	0.0284	0.0420	07:18:53	No
2	26.3	26.3	0.0441	0.0453	0.0652	0.0262	0.0391	07:21:45	No
Mean:	26.5	26.5	0.0444						
SD :	0.19	0.19	0.0003						
%RSD:	0.73	0.73	0.73						

QC value within specified limits.

=====  
 Element: Tl Seq. No.: 160 AS Loc.: 148 Date: 06/29/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0006	0.0005	0.0040	0.0016	0.0048	07:24:36	No
2	-0.4	-0.4	-0.0008	0.0003	0.0037	0.0022	0.0051	07:27:25	No
Mean:	-0.3	-0.3	-0.0007						
SD :	0.10	0.10	0.0002						
%RSD:	28.78	28.78	22.61						

QC value within specified limits.

=====  
 Element: Tl Seq. No.: 161 AS Loc.: 73 Date: 06/29/2006  
 Sample ID: 0606374-14X5

µL dispensed: 10 from 148, 5 from 147, 15 from 73

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0005	0.0006	0.0056	-0.0002	0.0049	07:30:15	No
2	-0.4	-0.4	-0.0009	0.0002	0.0032	0.0005	0.0055	07:33:05	No
Mean:	-0.3	-0.3	-0.0007						
SD :	0.17	0.17	0.0003						
%RSD:	53.65	53.65	41.63						

=====  
 Element: Tl Seq. No.: 162 AS Loc.: 73 Date: 06/29/2006  
 Sample ID: 0606374-14X5  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 73

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.4	19.4	0.0324	0.0335	0.0615	0.0198	0.0372	07:36:04	No
2	19.5	19.5	0.0326	0.0337	0.0620	0.0219	0.0402	07:39:01	No
Mean:	19.4	19.4	0.0325						
SD :	0.07	0.07	0.0001						
%RSD:	0.35	0.35	0.35						

Recovery for Tl = 97.1 % within 85 % to 115 %

=====  
 Element: Tl Seq. No.: 163 AS Loc.: 74 Date: 06/29/2006  
 Sample ID: BF62320-DUP2X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 74

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	-0.0001	0.0011	0.0035	0.0004	0.0043	07:41:51	No
2	-0.4	-0.4	-0.0009	0.0003	0.0050	0.0005	0.0051	07:44:41	No
Mean:	-0.2	-0.2	-0.0005						
SD :	0.34	0.34	0.0006						
%RSD:	185.1	185.1	123.49						

=====  
 Element: Tl Seq. No.: 164 AS Loc.: 75 Date: 06/29/2006  
 Sample ID: BF62320-MS2X20  
 µL dispensed: 10 from 148, 5 from 147, 15 from 75

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.8	23.8	0.0398	0.0409	0.0532	0.0251	0.0349	07:47:30	No
2	23.9	23.9	0.0400	0.0411	0.0599	0.0241	0.0355	07:50:20	No
Mean:	23.8	23.8	0.0399						
SD :	0.09	0.09	0.0002						
%RSD:	0.38	0.38	0.39						

=====  
 Element: Tl Seq. No.: 165 AS Loc.: 76 Date: 06/29/2006  
 Sample ID: BF62320-SD2X25  
 µL dispensed: 10 from 148, 5 from 147, 15 from 76

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0003	0.0008	0.0049	0.0000	0.0048	07:53:09	No
2	-0.5	-0.5	-0.0010	0.0001	0.0032	0.0008	0.0051	07:55:58	No
Mean:	-0.3	-0.3	-0.0006						
SD :	0.28	0.28	0.0005						
%RSD:	96.67	96.67	73.74						

=====  
 Element: Tl Seq. No.: 166 AS Loc.: 77 Date: 06/29/2006  
 Sample ID: 0606374-15X5  
 µL dispensed: 10 from 148, 5 from 147, ~~224~~ from 77



Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-1.2	-1.2	-0.0022	-0.0010	0.0045	0.0008	0.0053	07:58:47	No
2	0.5	0.5	0.0007	0.0018	0.0048	0.0012	0.0052	08:01:37	No
Mean:	-0.4	-0.4	-0.0007						
SD :	1.19	1.19	0.0020						
%RSD:	339.7	339.7	269.80						

=====  
 Element: Tl Seq. No.: 167 AS Loc.: 78 Date: 06/29/2006  
 Sample ID: 0606374-16X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 78

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0013	-0.0001	0.0049	0.0025	0.0063	08:04:27	No
2	-0.2	-0.2	-0.0005	0.0007	0.0047	-0.0010	0.0044	08:07:16	No
Mean:	-0.4	-0.4	-0.0009						
SD :	0.33	0.33	0.0006						
%RSD:	77.38	77.38	63.84						

=====  
 Element: Tl Seq. No.: 168 AS Loc.: 79 Date: 06/29/2006  
 Sample ID: 0606373-20X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 79

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0006	0.0005	0.0045	0.0012	0.0043	08:10:06	No
2	0.0	0.0	-0.0001	0.0010	0.0037	0.0019	0.0048	08:12:55	No
Mean:	-0.1	-0.1	-0.0004						
SD :	0.21	0.21	0.0004						
%RSD:	163.3	163.3	95.98						

=====  
 Element: Tl Seq. No.: 169 AS Loc.: 80 Date: 06/29/2006  
 Sample ID: 0606373-21X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 80

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0004	0.0007	0.0045	0.0013	0.0044	08:15:44	No
2	0.1	0.1	0.0001	0.0012	0.0037	0.0011	0.0044	08:18:33	No
Mean:	0.0	0.0	-0.0002						
SD :	0.19	0.19	0.0003						
%RSD:	84610	84610	212.80						

=====  
 Element: Tl Seq. No.: 170 AS Loc.: 81 Date: 06/29/2006  
 Sample ID: BF62713-BLK1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 81

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	-0.0012	-0.0001	0.0047	-0.0011	0.0040	08:21:23	No
2	-0.4	-0.4	-0.0008	0.0004	0.0049	-0.0004	0.0038	08:24:12	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.18	0.18	0.0003						
%RSD:	37.46	37.46	31.58						

=====  
 Element: Tl Seq. No.: 171 AS Loc.: 82 Date: 06/29/2006  
 Sample ID: BF62713-BS1X20  
 µL dispensed: 10 from 148, 5 from 147, 15 from 82

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	-0.0012	-0.0001	0.0047	-0.0011	0.0040	08:21:23	No
2	-0.4	-0.4	-0.0008	0.0004	0.0049	-0.0004	0.0038	08:24:12	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.18	0.18	0.0003						
%RSD:	37.46	37.46	31.58						

#	µg/L	µg/L	Signal	Area	Height	Area	Height	Stored
1	26.8	26.8	0.0448	0.0460	0.0499	0.0269	0.0304	08:27:01 No
2	26.4	26.4	0.0442	0.0453	0.0577	0.0286	0.0348	08:29:50 No
Mean:	26.6	26.6	0.0445					
SD :	0.27	0.27	0.0005					
%RSD:	1.01	1.01	1.01					

1000

=====  
 Element: Tl Seq. No.: 172 AS Loc.: 126 Date: 06/29/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.9	26.9	0.0450	0.0462	0.0683	0.0277	0.0407	08:32:41	No
2	26.6	26.6	0.0445	0.0456	0.0675	0.0268	0.0407	08:35:34	No
Mean:	26.7	26.7	0.0448						
SD :	0.22	0.22	0.0004						
%RSD:	0.83	0.83	0.83						

QC value within specified limits.

=====  
 Element: Tl Seq. No.: 173 AS Loc.: 148 Date: 06/29/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	-0.0012	0.0000	0.0053	-0.0003	0.0045	08:38:24	No
2	-0.5	-0.5	-0.0011	0.0001	0.0041	-0.0006	0.0030	08:41:13	No
Mean:	-0.6	-0.6	-0.0011						
SD :	0.04	0.04	0.0001						
%RSD:	6.30	6.30	5.43						

QC value within specified limits.

=====  
 Element: Tl Seq. No.: 174 AS Loc.: 83 Date: 06/29/2006  
 Sample ID: BF62713-BSD1X20  
 µL dispensed: 10 from 148, 5 from 147, 15 from 83

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.6	25.6	0.0429	0.0440	0.0517	0.0264	0.0309	08:44:03	No
2	26.1	26.1	0.0438	0.0449	0.0562	0.0271	0.0368	08:46:52	No
Mean:	25.9	25.9	0.0433						
SD :	0.38	0.38	0.0006						
%RSD:	1.46	1.46	1.47						

1045

=====  
 Element: Tl Seq. No.: 175 AS Loc.: 84 Date: 06/29/2006  
 Sample ID: BF62713-SRM1X50  
 µL dispensed: 10 from 148, 5 from 147, 15 from 84

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	17.6	17.6	0.0295	0.0306	0.0448	0.0191	0.0278	08:49:41	No
2	17.7	17.7	0.0297	0.0308	0.0462	0.0200	0.0291	08:52:30	No
Mean:	17.7	17.7	0.0296						
SD :	0.07	0.07	0.0001						
%RSD:	0.38	0.38	0.38						

17.7(50)(100)  
 1000 = 88.5

=====  
 Element: Tl Seq. No.: 176 AS Loc.: 85 Date: 06/29/2006  
 Sample ID: 0606360-01X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 85

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored

#	µg/L	µg/L	Signal	Area	Height	Area	Height	Stored
1	-0.3	-0.3	-0.0006	0.0005	0.0040	0.0018	0.0044	08:55:20 No
2	-0.4	-0.4	-0.0009	0.0002	0.0049	0.0003	0.0060	08:58:09 No
Mean:	-0.4	-0.4	-0.0008					
SD :	0.10	0.10	0.0002					
%RSD:	27.87	27.87	22.31					

W

=====  
 Element: Tl Seq. No.: 177 AS Loc.: 86 Date: 06/29/2006  
 Sample ID: BF62617-BLK1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 86

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0009	0.0002	0.0031	0.0010	0.0042	09:00:58	No
2	0.2	0.2	0.0003	0.0014	0.0042	0.0003	0.0044	09:03:47	No
Mean:	-0.1	-0.1	-0.0003						
SD :	0.50	0.50	0.0008						
%RSD:	454.4	454.4	249.11						

W

=====  
 Element: Tl Seq. No.: 178 AS Loc.: 87 Date: 06/29/2006  
 Sample ID: BF62617-BS1X20  
 µL dispensed: 10 from 148, 5 from 147, 15 from 87

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.0	26.0	0.0436	0.0447	0.0537	0.0258	0.0325	09:06:36	No
2	26.0	26.0	0.0435	0.0446	0.0513	0.0268	0.0307	09:09:26	No
Mean:	26.0	26.0	0.0436						
SD :	0.04	0.04	0.0001						
%RSD:	0.17	0.17	0.17						

1045

=====  
 Element: Tl Seq. No.: 179 AS Loc.: 88 Date: 06/29/2006  
 Sample ID: BF62617-BSD1X20  
 µL dispensed: 10 from 148, 5 from 147, 15 from 88

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.7	25.7	0.0430	0.0441	0.0522	0.0288	0.0336	09:12:14	No
2	26.4	26.4	0.0442	0.0453	0.0588	0.0279	0.0348	09:15:02	No
Mean:	26.0	26.0	0.0436						
SD :	0.50	0.50	0.0008						
%RSD:	1.91	1.91	1.91						

1045

=====  
 Element: Tl Seq. No.: 180 AS Loc.: 89 Date: 06/29/2006  
 Sample ID: BF62617-SRM1X50  
 µL dispensed: 10 from 148, 5 from 147, 15 from 89

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	18.3	18.3	0.0306	0.0317	0.0429	0.0181	0.0253	09:17:50	No
2	18.8	18.8	0.0314	0.0326	0.0460	0.0187	0.0267	09:20:39	No
Mean:	18.5	18.5	0.0310						
SD :	0.36	0.36	0.0006						
%RSD:	1.96	1.96	1.97						

$\frac{18.5(30)(100)}{1000} = 92.5$

=====  
 Element: Tl Seq. No.: 181 AS Loc.: 90 Date: 06/29/2006  
 Sample ID: 0606383-01X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 90

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0003	0.22708	0.0031	0.0015	0.0030	09:23:27	No

2	-0.3	-0.3	-0.0007	0.0004	0.0044	0.0011	0.0040	09:26:18	No
Mean:	-0.2	-0.2	-0.0005						
SD :	0.17	0.17	0.0003						
%RSD:	80.26	80.26	56.40						

=====  
Element: Tl Seq. No.: 182 AS Loc.: 91 Date: 06/29/2006  
Sample ID: 0606383-02X5  
µL dispensed: 10 from 148, 5 from 147, 15 from 91

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0013	-0.0002	0.0037	0.0005	0.0046	09:29:07	No
2	-0.6	-0.6	-0.0012	-0.0001	0.0033	0.0013	0.0038	09:31:56	No
Mean:	-0.7	-0.7	-0.0013						
SD :	0.05	0.05	0.0001						
%RSD:	8.24	8.24	7.25						

=====  
Element: Tl Seq. No.: 183 AS Loc.: 92 Date: 06/29/2006  
Sample ID: 0606383-03X5  
µL dispensed: 10 from 148, 5 from 147, 15 from 92

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	0.0007	0.0018	0.0051	0.0007	0.0043	09:34:44	No
2	-0.4	-0.4	-0.0008	0.0003	0.0037	0.0005	0.0021	09:37:34	No
Mean:	0.1	0.1	-0.0001						
SD :	0.64	0.64	0.0011						
%RSD:	1057	1057	2073.29						

=====  
Element: Tl Seq. No.: 184 AS Loc.: 126 Date: 06/29/2006  
Sample ID: CCV  
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.7	27.7	0.0464	0.0476	0.0702	0.0286	0.0430	09:40:25	No
2	27.3	27.3	0.0457	0.0468	0.0701	0.0292	0.0425	09:43:19	No
Mean:	27.5	27.5	0.0461						
SD :	0.31	0.31	0.0005						
%RSD:	1.11	1.11	1.11						

QC value within specified limits.

=====  
Element: Tl Seq. No.: 185 AS Loc.: 148 Date: 06/29/2006  
Sample ID: ICB/CCB  
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0010	0.0002	0.0034	0.0009	0.0060	09:46:09	No
2	0.3	0.3	0.0004	0.0015	0.0027	-0.0004	0.0025	09:48:58	No
Mean:	-0.1	-0.1	-0.0003						
SD :	0.57	0.57	0.0010						
%RSD:	710.5	710.5	333.92						

QC value within specified limits.

=====  
Element: Tl Seq. No.: 186 AS Loc.: 93 Date: 06/29/2006  
Sample ID: 0606383-04X5  
µL dispensed: 10 from 148, 5 from 147, 15 from 93

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0013	-0.2282	0.0035	0.0020	0.0049	09:51:46	No

2	-0.3	-0.3	-0.0007	0.0005	0.0065	0.0018	0.0054	09:54:35	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.27	0.27	0.0005						
%RSD:	54.19	54.19	45.88						

=====  
 Element: Tl Seq. No.: 187 AS Loc.: 94 Date: 06/29/2006  
 Sample ID: 0606383-05X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 94

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.0	1.0	0.0015	0.0026	0.0059	0.0008	0.0041	09:57:23	No
2	0.7	0.7	0.0011	0.0022	0.0086	0.0010	0.0054	10:00:12	No
Mean:	0.9	0.9	0.0013						
SD :	0.19	0.19	0.0003						
%RSD:	22.17	22.17	24.80						

=====  
 Element: Tl Seq. No.: 188 AS Loc.: 95 Date: 06/29/2006  
 Sample ID: 0606383-06X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 95

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0005	0.0006	0.0038	0.0018	0.0038	10:03:01	No
2	-0.7	-0.7	-0.0013	-0.0001	0.0048	0.0015	0.0053	10:05:51	No
Mean:	-0.4	-0.4	-0.0009						
SD :	0.33	0.33	0.0005						
%RSD:	76.76	76.76	63.24						

=====  
 Element: Tl Seq. No.: 189 AS Loc.: 96 Date: 06/29/2006  
 Sample ID: 0606383-07X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 96

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.5	2.5	0.0040	0.0051	0.0117	0.0021	0.0065	10:08:40	No
2	2.8	2.8	0.0045	0.0056	0.0137	0.0031	0.0074	10:11:30	No
Mean:	2.6	2.6	0.0042						
SD :	0.22	0.22	0.0004						
%RSD:	8.28	8.28	8.58						

=====  
 Element: Tl Seq. No.: 190 AS Loc.: 97 Date: 06/29/2006  
 Sample ID: 0606383-08X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 97

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.5	5.5	0.0091	0.0103	0.0175	0.0069	0.0118	10:14:19	No
2	4.9	4.9	0.0081	0.0092	0.0204	0.0070	0.0125	10:17:09	No
Mean:	5.2	5.2	0.0086						
SD :	0.44	0.44	0.0007						
%RSD:	8.52	8.52	8.67						

=====  
 Element: Tl Seq. No.: 191 AS Loc.: 98 Date: 06/29/2006  
 Sample ID: 0606383-09X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 98

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.8	-0.8	-0.0016	-0.0004	0.0046	0.0011	0.0063	10:19:59	No
2	-0.3	-0.3	-0.0007	0.0004	0.0036	0.0014	0.0053	10:22:48	No
Mean:	-0.6	-0.6	-0.0011	229					

SD : 0.37 0.37 0.0006  
 %RSD: 63.21 63.21 54.69

=====  
 Element: Tl Seq. No.: 192 AS Loc.: 99 Date: 06/29/2006  
 Sample ID: 0606383-10X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 99

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	0.0006	0.0017	0.0040	0.0015	0.0053	10:25:39	No
2	0.3	0.3	0.0004	0.0016	0.0038	0.0020	0.0033	10:28:28	No
Mean:	0.4	0.4	0.0005						
SD :	0.07	0.07	0.0001						
%RSD:	18.20	18.20	23.54						

=====  
 Element: Tl Seq. No.: 193 AS Loc.: 100 Date: 06/29/2006  
 Sample ID: 0606383-11X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 100

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0010	0.0002	0.0027	0.0024	0.0027	10:31:18	No
2	-0.3	-0.3	-0.0007	0.0004	0.0036	0.0011	0.0047	10:34:07	No
Mean:	-0.4	-0.4	-0.0008						
SD :	0.10	0.10	0.0002						
%RSD:	23.45	23.45	19.19						

=====  
 Element: Tl Seq. No.: 194 AS Loc.: 100 Date: 06/29/2006  
 Sample ID: 0606383-11X5  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 100

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	22.6	22.6	0.0379	0.0390	0.0671	0.0230	0.0436	10:37:06	No
2	20.8	20.8	0.0348	0.0360	0.0639	0.0214	0.0399	10:40:05	No
Mean:	21.7	21.7	0.0364						
SD :	1.28	1.28	0.0021						
%RSD:	5.88	5.88	5.90						

Recovery for Tl = 108.6 % within 85 % to 115 %

=====  
 Element: Tl Seq. No.: 195 AS Loc.: 101 Date: 06/29/2006  
 Sample ID: BF62617-DUP1X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 101

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0008	0.0003	0.0026	0.0012	0.0022	10:42:56	No
2	0.0	0.0	-0.0002	0.0009	0.0049	0.0018	0.0048	10:45:46	No
Mean:	-0.2	-0.2	-0.0005						
SD :	0.26	0.26	0.0004						
%RSD:	114.3	114.3	81.23						

=====  
 Element: Tl Seq. No.: 196 AS Loc.: 102 Date: 06/29/2006  
 Sample ID: BF62617-MS1X20  
 µL dispensed: 10 from 148, 5 from 147, 15 from 102

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.8	24.8	0.0416	0.0427	0.0672	0.0282	0.0396	10:48:36	No
2	25.7	25.7	0.0430	0.0442	0.0707	0.0287	0.0463	10:51:26	No
Mean:	25.3	25.3	0.0423						
SD :	0.62	0.62	0.0010	230					

%RSD: 2.46 2.46 2.47

=====  
 Element: Tl Seq. No.: 197 AS Loc.: 126 Date: 06/29/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	28.6	28.6	0.0479	0.0491	0.0789	0.0325	0.0497	10:54:21	No
2	27.6	27.6	0.0462	0.0474	0.0761	0.0303	0.0462	10:57:14	No
Mean:	28.1	28.1	0.0471						
SD :	0.72	0.72	0.0012						
%RSD:	2.55	2.55	2.56						

QC failed, value greater than upper limit for Tl.

=====  
 Element: Tl Seq. No.: 198 AS Loc.: 126 Date: 06/29/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	29.6	29.6	0.0496	0.0507	0.0800	0.0308	0.0464	11:00:06	No
2	27.8	27.8	0.0466	0.0477	0.0714	0.0293	0.0441	11:02:58	No
Mean:	28.7	28.7	0.0481						
SD :	1.24	1.24	0.0021						
%RSD:	4.31	4.31	4.33						

QC failed, value greater than upper limit for Tl.

Current analysis method being continued.

=====  
 Element: Tl Seq. No.: 199 AS Loc.: 148 Date: 06/29/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0001	0.0012	0.0044	0.0001	0.0043	11:05:49	No
2	0.0	0.0	-0.0002	0.0009	0.0023	0.0005	0.0023	11:08:38	No
Mean:	0.1	0.1	-0.0001						
SD :	0.15	0.15	0.0002						
%RSD:	266.4	266.4	422.81						

QC value within specified limits.

=====  
 Element: Tl Seq. No.: 200 AS Loc.: 103 Date: 06/29/2006  
 Sample ID: BF62617-SD1X25  
 µL dispensed: 10 from 148, 5 from 147, 15 from 103

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.7	-0.7	-0.0013	-0.0001	0.0042	0.0001	0.0058	11:11:28	No
2	-0.3	-0.3	-0.0007	0.0005	0.0037	0.0022	0.0050	11:14:19	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.25	0.25	0.0004						
%RSD:	51.86	51.86	43.58						

=====  
 Element: Tl Seq. No.: 201 AS Loc.: 104 Date: 06/29/2006  
 Sample ID: 0606383-12X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 104

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	-0.0001	0.0010	0.0044	0.0015	0.0047	11:17:11	No
2	-0.4	-0.4	-0.0009	0.28103	0.0039	0.0015	0.0051	11:20:02	No

Mean: -0.2 -0.2 -0.0005  
 SD : 0.31 0.31 0.0005  
 %RSD: 149.0 149.0 103.70

=====  
 Element: Tl Seq. No.: 202 AS Loc.: 105 Date: 06/29/2006  
 Sample ID: 0606383-13X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 105

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0003	0.0009	0.0065	0.0019	0.0065	11:22:54	No
2	-0.9	-0.9	-0.0017	-0.0006	0.0041	0.0027	0.0045	11:25:46	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.61	0.61	0.0010						
%RSD:	121.0	121.0	102.58						

=====  
 Element: Tl Seq. No.: 203 AS Loc.: 105 Date: 06/29/2006  
 Sample ID: 0606383-13X5  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 105

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	22.3	22.3	0.0374	0.0385	0.0689	0.0248	0.0453	11:28:46	No
2	22.3	22.3	0.0374	0.0385	0.0709	0.0237	0.0446	11:31:45	No
Mean:	22.3	22.3	0.0374						
SD :	0.02	0.02	0.0000						
%RSD:	0.10	0.10	0.11						

Recovery for Tl = 111.6 % within 85 % to 115 %

=====  
 Element: Tl Seq. No.: 204 AS Loc.: 106 Date: 06/29/2006  
 Sample ID: BF62617-DUP2X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 106

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	-0.0011	0.0000	0.0027	0.0016	0.0031	11:34:37	No
2	-1.1	-1.1	-0.0019	-0.0008	0.0019	0.0012	0.0023	11:37:29	No
Mean:	-0.8	-0.8	-0.0015						
SD :	0.35	0.35	0.0006						
%RSD:	43.97	43.97	39.51						

=====  
 Element: Tl Seq. No.: 205 AS Loc.: 107 Date: 06/29/2006  
 Sample ID: BF62617-MS2X20  
 µL dispensed: 10 from 148, 5 from 147, 15 from 107

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.5	23.5	0.0393	0.0404	0.0646	0.0251	0.0380	11:40:22	No
2	23.4	23.4	0.0393	0.0404	0.0676	0.0274	0.0420	11:43:13	No
Mean:	23.4	23.4	0.0393						
SD :	0.01	0.01	0.0000						
%RSD:	0.04	0.04	0.04						

=====  
 Element: Tl Seq. No.: 206 AS Loc.: 108 Date: 06/29/2006  
 Sample ID: BF62617-SD2X25  
 µL dispensed: 10 from 148, 5 from 147, 15 from 108

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.8	-0.8	-0.0015	-0.0003	0.0057	0.0010	0.0051	11:46:03	No
2	-1.1	-1.1	-0.0021	-0.0009	0.0043	0.0019	0.0044	11:48:53	No
Mean:	-1.0	-1.0	-0.0018	232					



SD : 0.25 0.25 0.0004  
 %RSD: 26.43 26.43 24.13

=====  
 Element: Tl Seq. No.: 207 AS Loc.: 109 Date: 06/29/2006  
 Sample ID: 0606383-14X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 109

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	-0.0001	0.0010	0.0049	0.0010	0.0052	11:51:45	No
2	0.8	0.8	0.0011	0.0023	0.0048	0.0024	0.0053	11:54:35	No
Mean:	0.4	0.4	0.0005						
SD :	0.51	0.51	0.0009						
%RSD:	127.7	127.7	165.17						

=====  
 Element: Tl Seq. No.: 208 AS Loc.: 110 Date: 06/29/2006  
 Sample ID: 0606405-01X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 110

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.3	0.3	0.0004	0.0015	0.0036	0.0000	0.0032	11:57:26	No
2	0.4	0.4	0.0005	0.0016	0.0043	-0.0014	0.0052	12:00:16	No
Mean:	0.3	0.3	0.0004						
SD :	0.05	0.05	0.0001						
%RSD:	13.18	13.18	17.93						

=====  
 Element: Tl Seq. No.: 209 AS Loc.: 111 Date: 06/29/2006  
 Sample ID: 0606405-02X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 111

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	0.0008	0.0020	0.0042	0.0005	0.0046	12:03:06	No
2	-0.2	-0.2	-0.0004	0.0007	0.0026	-0.0002	0.0027	12:05:57	No
Mean:	0.2	0.2	0.0002						
SD :	0.53	0.53	0.0009						
%RSD:	256.7	256.7	458.01						

=====  
 Element: Tl Seq. No.: 210 AS Loc.: 112 Date: 06/29/2006  
 Sample ID: 0606405-03X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 112

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0002	0.0013	0.0045	0.0004	0.0029	12:08:47	No
2	-0.6	-0.6	-0.0011	0.0000	0.0040	0.0010	0.0044	12:11:37	No
Mean:	-0.2	-0.2	-0.0004						
SD :	0.55	0.55	0.0009						
%RSD:	323.2	323.2	210.69						

=====  
 Element: Tl Seq. No.: 211 AS Loc.: 126 Date: 06/29/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	28.5	28.5	0.0478	0.0489	0.0674	0.0290	0.0432	12:14:28	No
2	28.6	28.6	0.0479	0.0490	0.0756	0.0297	0.0457	12:17:20	No
Mean:	28.5	28.5	0.0478						
SD :	0.03	0.03	0.0000						
%RSD:	0.09	0.09	0.09	233					

QC failed, value greater than upper limit for T1.

=====  
 Element: T1 Seq. No.: 212 AS Loc.: 126 Date: 06/29/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.5	27.5	0.0461	0.0472	0.0706	0.0292	0.0420	12:20:15	No
2	28.3	28.3	0.0474	0.0485	0.0687	0.0285	0.0413	12:23:09	No
Mean:	27.9	27.9	0.0467						
SD :	0.57	0.57	0.0010						
%RSD:	2.03	2.03	2.04						

QC failed, value greater than upper limit for T1.  
 Current analysis method being continued.

=====  
 Element: T1 Seq. No.: 213 AS Loc.: 148 Date: 06/29/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	-0.0011	0.0000	0.0042	0.0006	0.0048	12:25:59	No
2	-0.4	-0.4	-0.0008	0.0003	0.0046	-0.0001	0.0053	12:28:48	No
Mean:	-0.5	-0.5	-0.0009						
SD :	0.12	0.12	0.0002						
%RSD:	25.00	25.00	20.96						

QC value within specified limits.

=====  
 Element: T1 Seq. No.: 214 AS Loc.: 113 Date: 06/29/2006  
 Sample ID: 0606405-04X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 113

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0000	0.0012	0.0042	0.0004	0.0037	12:31:38	No
2	-0.2	-0.2	-0.0005	0.0006	0.0032	0.0028	0.0053	12:34:29	No
Mean:	-0.1	-0.1	-0.0002						
SD :	0.23	0.23	0.0004						
%RSD:	433.7	433.7	158.13						

=====  
 Element: T1 Seq. No.: 215 AS Loc.: 126 Date: 06/29/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	28.3	28.3	0.0474	0.0485	0.0711	0.0298	0.0427	12:37:20	No
2	28.9	28.9	0.0484	0.0495	0.0698	0.0291	0.0438	12:40:12	No
Mean:	28.6	28.6	0.0479						
SD :	0.43	0.43	0.0007						
%RSD:	1.49	1.49	1.50						

QC failed, value greater than upper limit for T1.

=====  
 Element: T1 Seq. No.: 216 AS Loc.: 126 Date: 06/29/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	29.3	29.3	0.0491	0.0502	0.0712	0.0296	0.0422	12:43:05	No
2	27.6	27.6	0.0462	0.20473	0.0677	0.0289	0.0417	12:45:58	No

Mean: 28.4 28.4 0.0476  
 SD : 1.24 1.24 0.0021  
 %RSD: 4.35 4.35 4.37

1147

QC failed, value greater than upper limit for Tl.  
 Current analysis method being continued.

=====  
 Element: Tl Seq. No.: 217 AS Loc.: 148 Date: 06/29/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0006	0.0005	0.0053	0.0003	0.0058	12:48:50	No
2	-0.8	-0.8	-0.0014	-0.0003	0.0024	0.0012	0.0023	12:51:39	No
Mean:	-0.5	-0.5	-0.0010						
SD :	0.34	0.34	0.0006						
%RSD:	63.24	63.24	53.99						

QC value within specified limits.

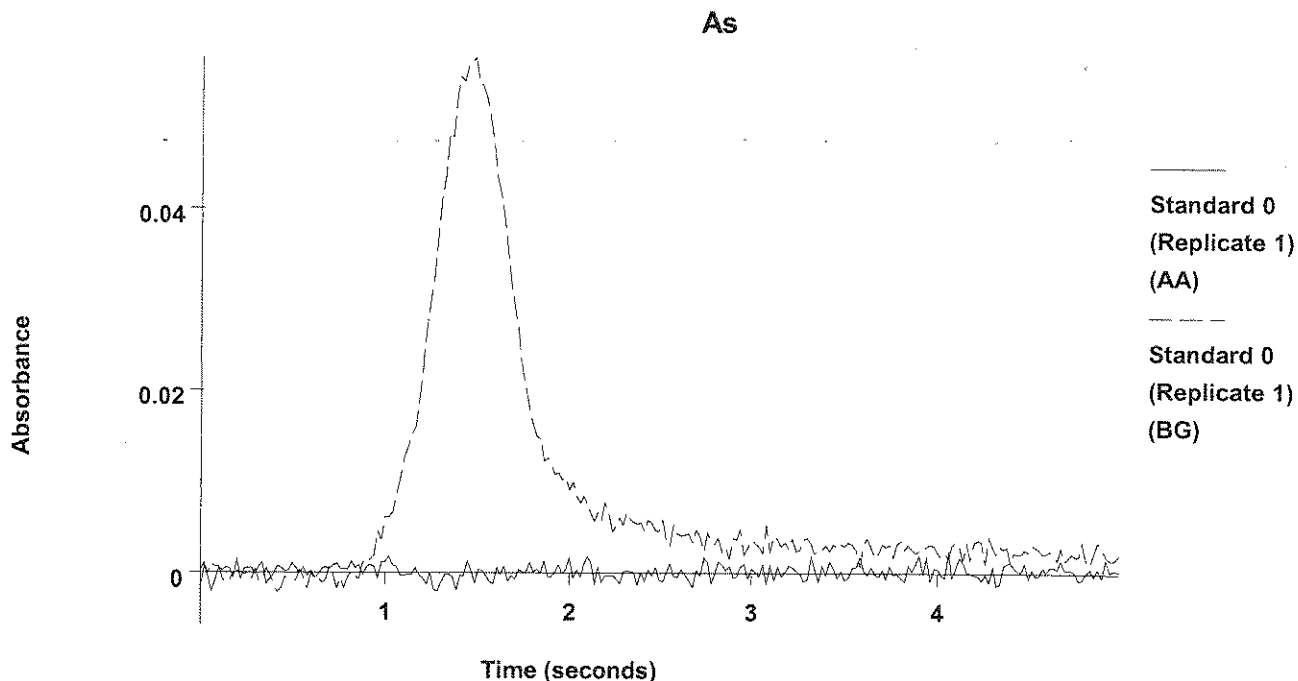
Method Name: As 5  
 Method Description: As  
 Element: As

Date: 06/29/2006  
 Technique: Furnace  
 Calibration Type:  
 As, Calc. Intercept : Linear  
 Wavelength: 193.7 nm  
 Energy: 100  
 Slit Width: 0.7  
 Lamp Current: 350mA  
 Sample Info Name: 062806YA.SIF

Results Data Set Name: 062806YAD

Element: As Seq. No.: 218 AS Loc.: 148 Date: 06/29/2006  
 Sample ID: Standard 0  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0006	0.0006	0.0025	0.0394	0.0565	12:56:36	Yes



2			0.0005	0.0005	0.0020	0.0428	0.0595	12:59:25	Yes
Mean:			0.0006						
SD :			0.0000						
%RSD:			6.28						

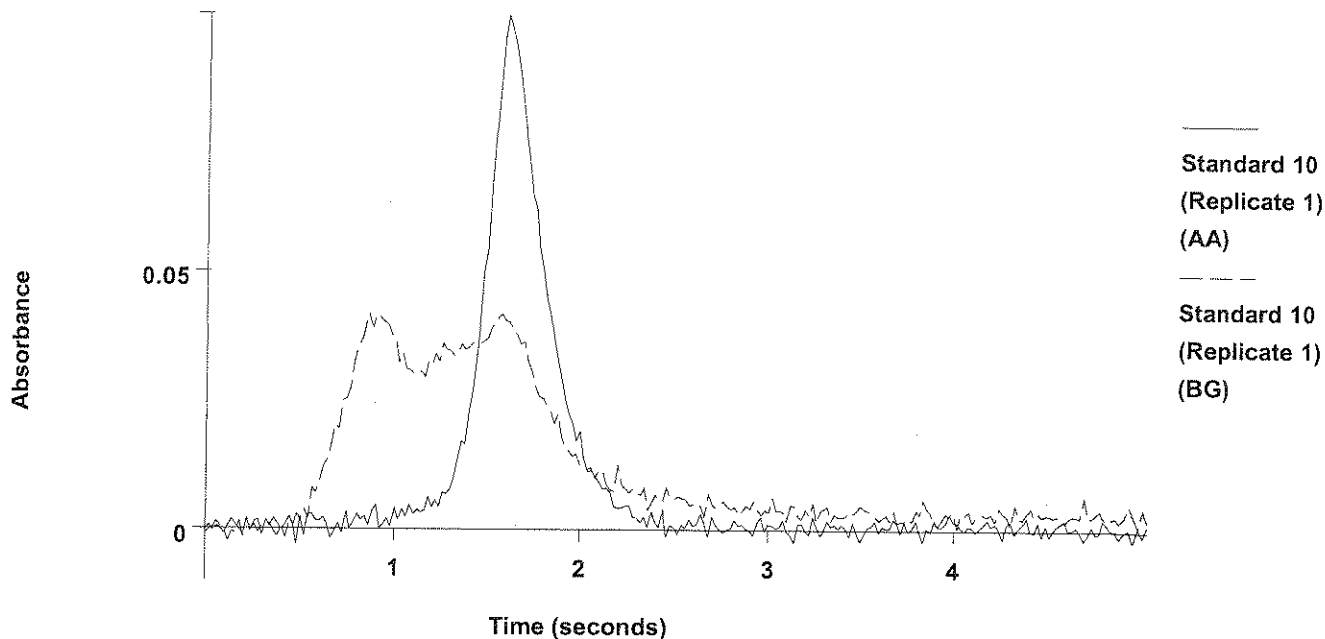
Auto-zero performed.

Element: As Seq. No.: 219 AS Loc.: 121 Date: 06/29/2006  
 Sample ID: Standard 5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 121

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0200	0.0206	0.0512	0.0534	0.0539	01:02:40	Yes



As



2 0.0385 0.0390 0.1088 0.0515 0.0439 01:11:42 Yes  
 Mean: 0.0395  
 SD : 0.0014  
 %RSD: 3.66  
 [As] Standard number 2 applied. [10.0]  
 Correlation Coefficient: 0.99994 Slope: 0.00395  
 Intercept : 0.00012

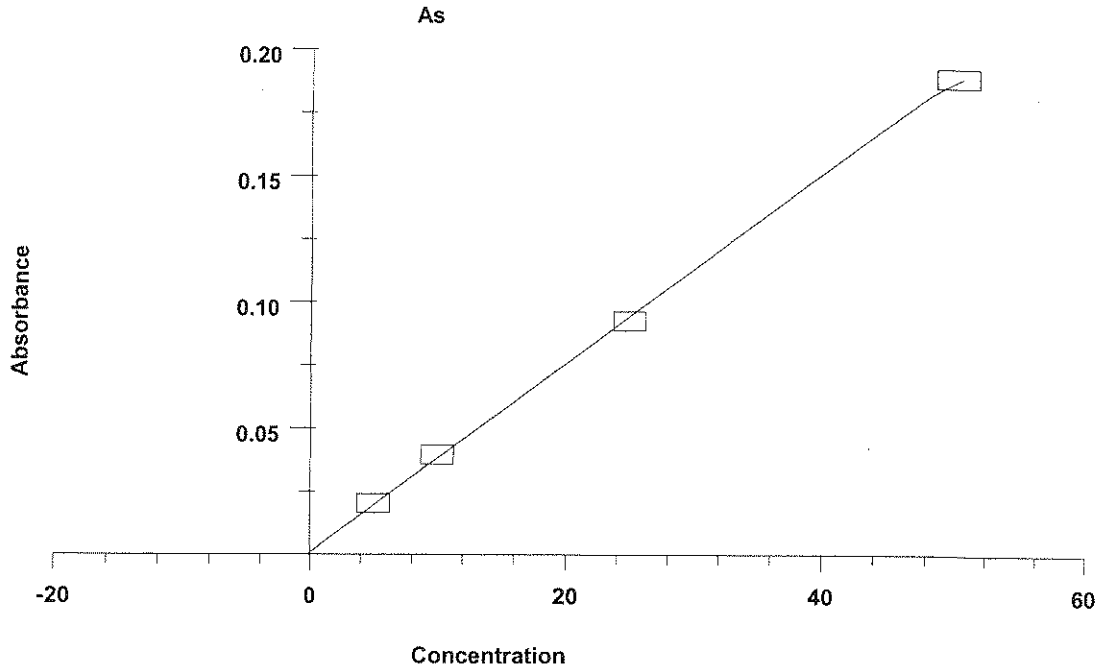
=====  
 Element: As Seq. No.: 221 AS Loc.: 126 Date: 06/29/2006  
 Sample ID: Standard 25  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0926	0.0932	0.2075	0.0563	0.0483	01:15:00	Yes







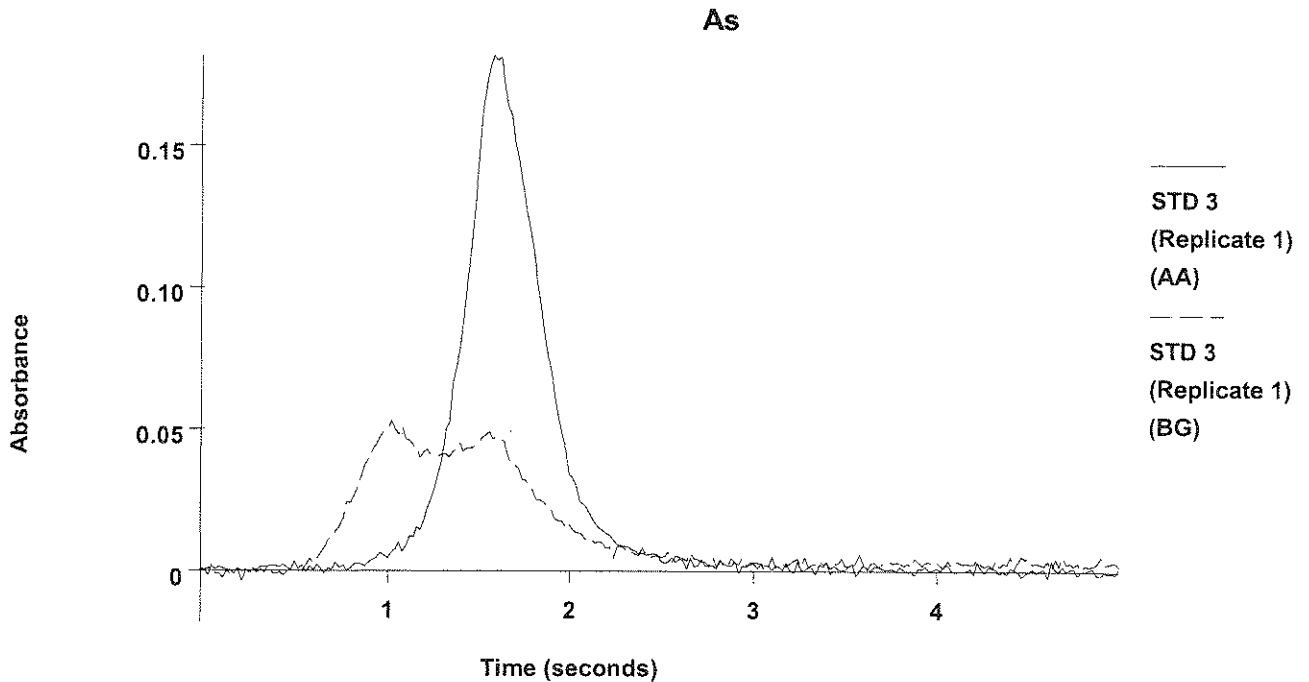


```

=====
Element: As      Seq. No.: 223      AS Loc.: 126      Date: 06/29/2006
Sample ID: STD 3
µL dispensed: 10 from 148, 5 from 147, 15 from 126
=====

```

Repl #	SampleConc µg/L	StdConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.7	24.7	0.0934	0.0940	0.1818	0.0604	0.0530	01:26:57	Yes



```

2      24.5      24.5      0.0927      0.0933      0.2052      0.0595      0.0505      01:29:50      Yes

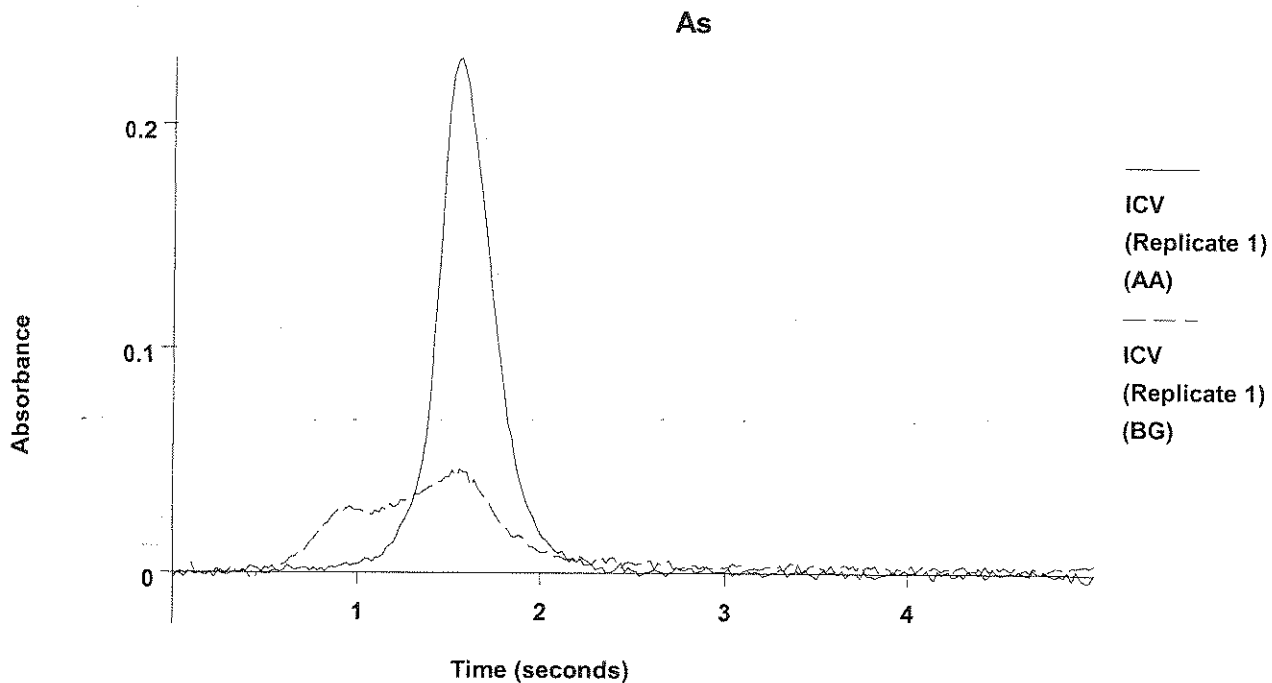
```

241

Mean: 24.6 24.6 0.0931  
 SD : 0.14 0.14 0.0005  
 %RSD: 0.57 0.57 0.57  
 QC value within specified limits.

=====  
 Element: As Seq. No.: 224 AS Loc.: 134 Date: 06/29/2006  
 Sample ID: ICV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 134  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.2	23.2	0.0875	0.0881	0.2298	0.0472	0.0461	01:32:40	Yes

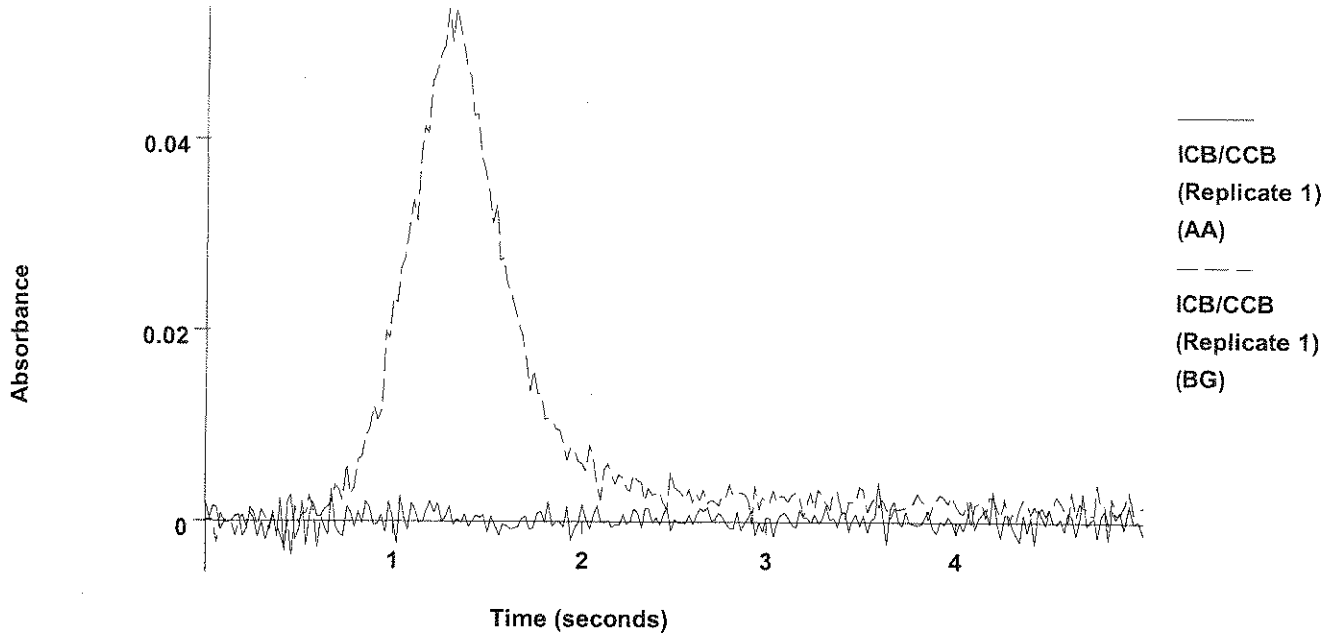


2 23.7 23.7 0.0897 0.0903 0.2419 0.0509 0.0468 01:35:30 Yes  
 Mean: 23.4 23.4 0.0886  
 SD : 0.40 0.40 0.0015  
 %RSD: 1.72 1.72 1.71  
 QC value within specified limits.

=====  
 Element: As Seq. No.: 225 AS Loc.: 148 Date: 06/29/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	0.0005	0.0011	0.0042	0.0386	0.0538	01:38:19	Yes

As

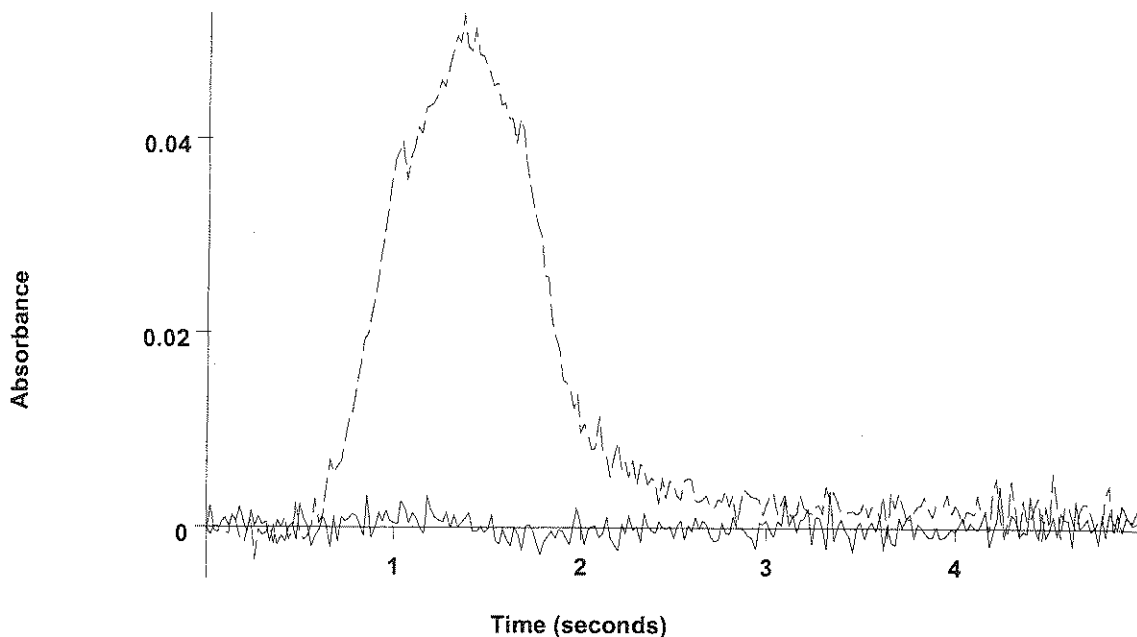


2            -0.2        -0.2        -0.0001    0.0005    0.0040    0.0305    0.0324    01:41:10    Yes  
 Mean:       -0.1        -0.1        0.0002  
 SD :        0.11        0.11        0.0004  
 %RSD:       77.8        77.8        199.45  
 QC value within specified limits.

=====  
 Element: As      Seq. No.: 226      AS Loc.: 23      Date: 06/29/2006  
 Sample ID: BF62317-BLK1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 23  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	0.0001	0.0007	0.0043	0.0527	0.0529	01:44:00	Yes

As



BF62317-BLK1  
(Replicate 1)  
(AA)

BF62317-BLK1  
(Replicate 1)  
(BG)

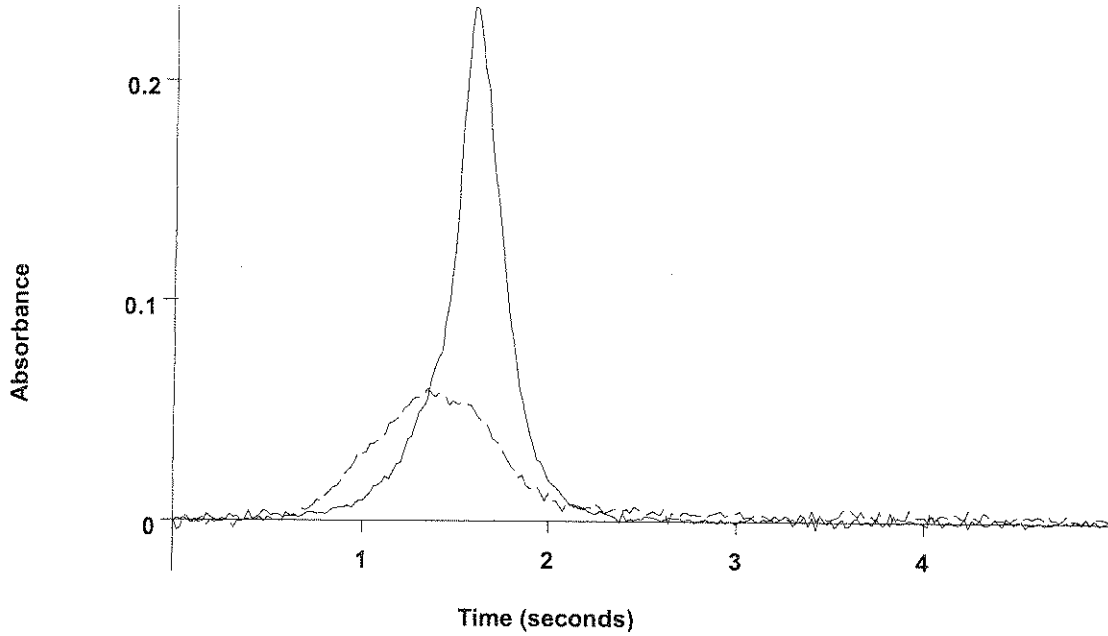
2	0.2	0.2	0.0013	0.0019	0.0060	0.0503	0.0530	01:46:49	Yes
Mean:	0.0	0.0	0.0007						
SD :	0.24	0.24	0.0009						
%RSD:	7200	7200	123.13						

*M*

=====  
 Element: As    Seq. No.: 227    AS Loc.: 24    Date: 06/29/2006  
 Sample ID: BF62317-BS1X20  
 µL dispensed: 10 from 148, 5 from 147, 15 from 24  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.8	23.8	0.0899	0.0904	0.2338	0.0554	0.0601	01:49:39	Yes

As



BF62317-BS1X20  
(Replicate 1)  
(AA)  
BF62317-BS1X20  
(Replicate 1)  
(BG)

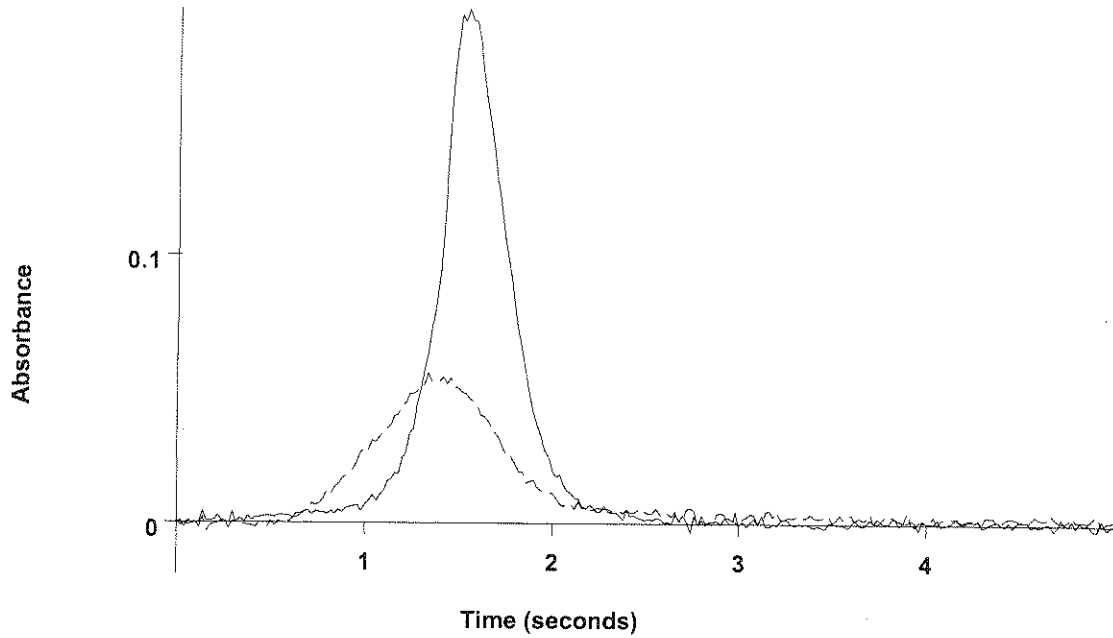
2	23.5	23.5	0.0888	0.0894	0.2263	0.0523	0.0585	01:52:30	Yes
Mean:	23.6	23.6	0.0894						
SD :	0.19	0.19	0.0007						
%RSD:	0.82	0.82	0.81						

945

=====  
 Element: As    Seq. No.: 228    AS Loc.: 25    Date: 06/29/2006  
 Sample ID: BF62317-BSD1X20  
 µL dispensed: 10 from 148, 5 from 147, 15 from 25  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.2	23.2	0.0877	0.0883	0.1922	0.0492	0.0560	01:55:20	Yes

As



BF62317-BSD1X20  
(Replicate 1)  
(AA)

BF62317-BSD1X20  
(Replicate 1)  
(BG)

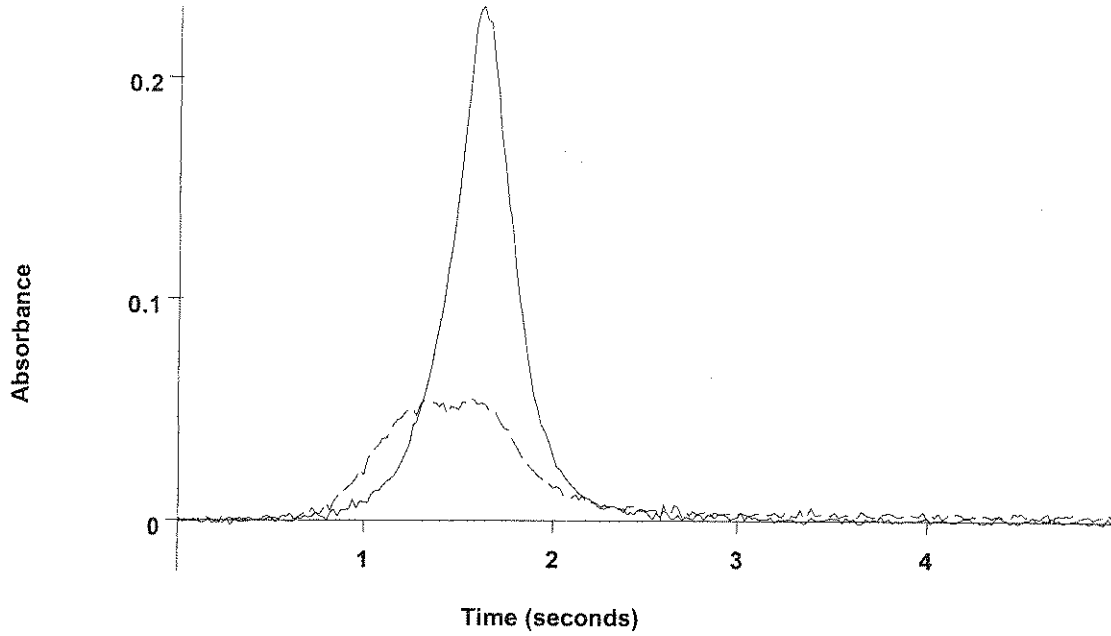
2	23.7	23.7	0.0895	0.0901	0.2212	0.0503	0.0588	01:58:09	Yes
Mean:	23.4	23.4	0.0886						
SD :	0.34	0.34	0.0013						
%RSD:	1.46	1.46	1.45						

945

=====  
 Element: As    Seq. No.: 229    AS Loc.: 26    Date: 06/29/2006  
 Sample ID: BF62317-SRM1X50  
 µL dispensed: 10 from 148, 5 from 147, 15 from 26  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.2	27.2	0.1025	0.1031	0.2321	0.0562	0.0552	02:00:58	Yes

As



BF62317-SRM1X50  
(Replicate 1)  
(AA)

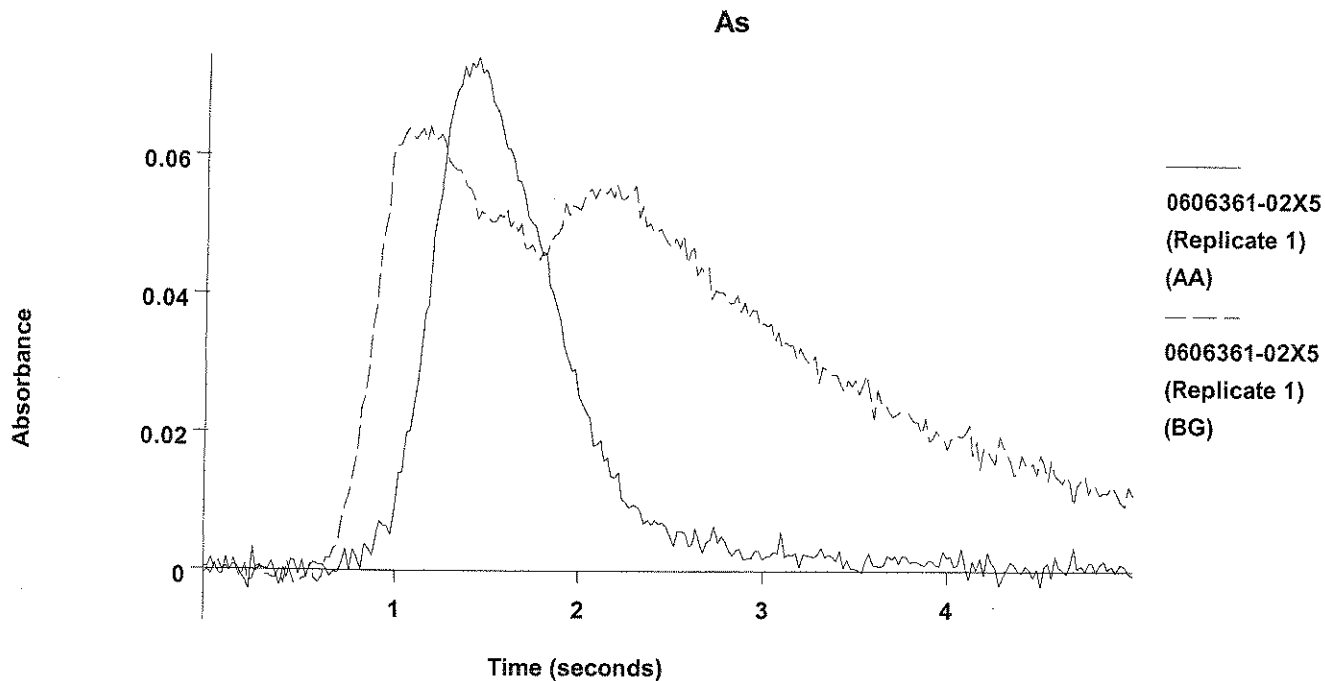
BF62317-SRM1X50  
(Replicate 1)  
(BG)

2	26.9	26.9	0.1015	0.1020	0.2526	0.0550	0.0544	02:03:48	Yes
Mean:	27.0	27.0	0.1020						
SD :	0.21	0.21	0.0008						
%RSD:	0.76	0.76	0.76						

$$\frac{27.0(50)(100)}{1000} = 135$$

=====  
 Element: As    Seq. No.: 230    AS Loc.: 27    Date: 06/29/2006  
 Sample ID: 0606361-01X5  
 μL dispensed: 10 from 148, 5 from 147, 15 from 27  
 =====

Repl #	SampleConc μg/L	StndConc μg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	16.5	16.5	0.0626	0.0632	0.0781	0.1402	0.0661	02:06:37	Yes

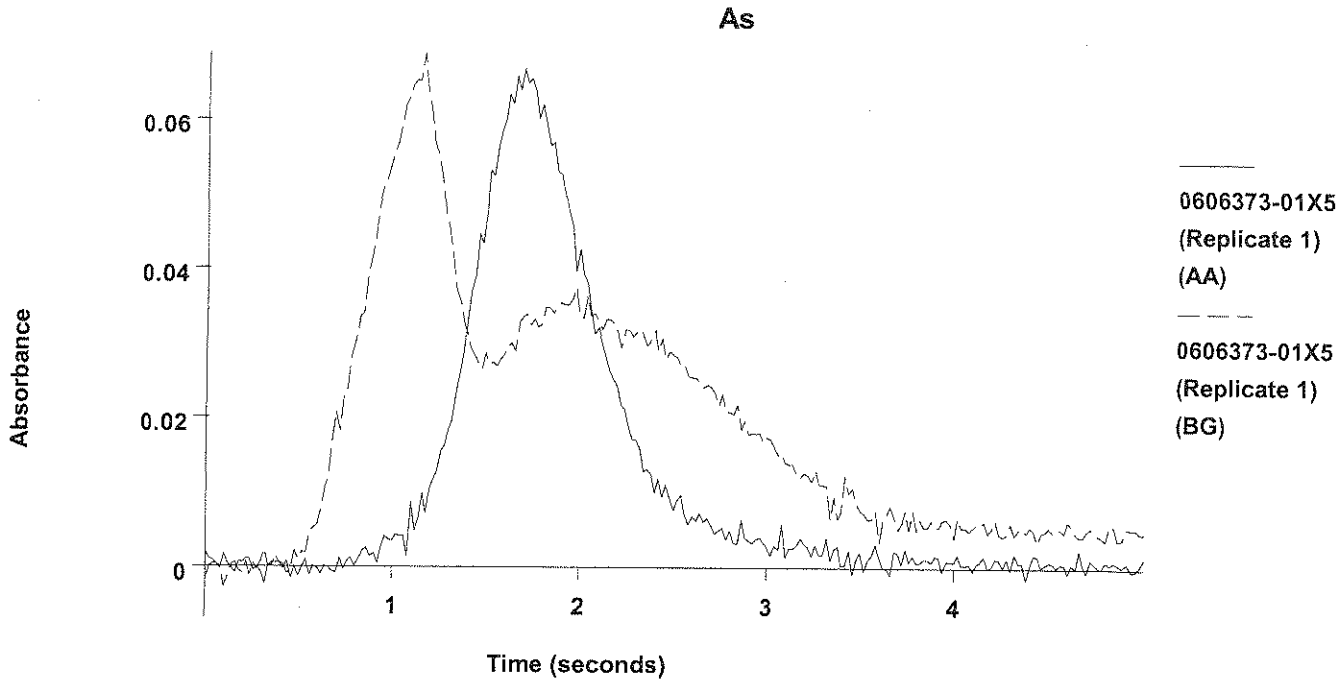


2	15.7	15.7	0.0594	0.0600	0.0731	0.1487	0.0608	02:15:07	Yes
Mean:	15.9	15.9	0.0603						
SD :	0.31	0.31	0.0012						
%RSD:	1.96	1.96	1.94						

=====  
 Element: As    Seq. No.: 232    AS Loc.: 29    Date: 06/29/2006  
 Sample ID: 0606373-01X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 29  
 =====

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	14.0	14.0	0.0531	0.0537	0.0667	0.0942	0.0689	02:17:56	Yes



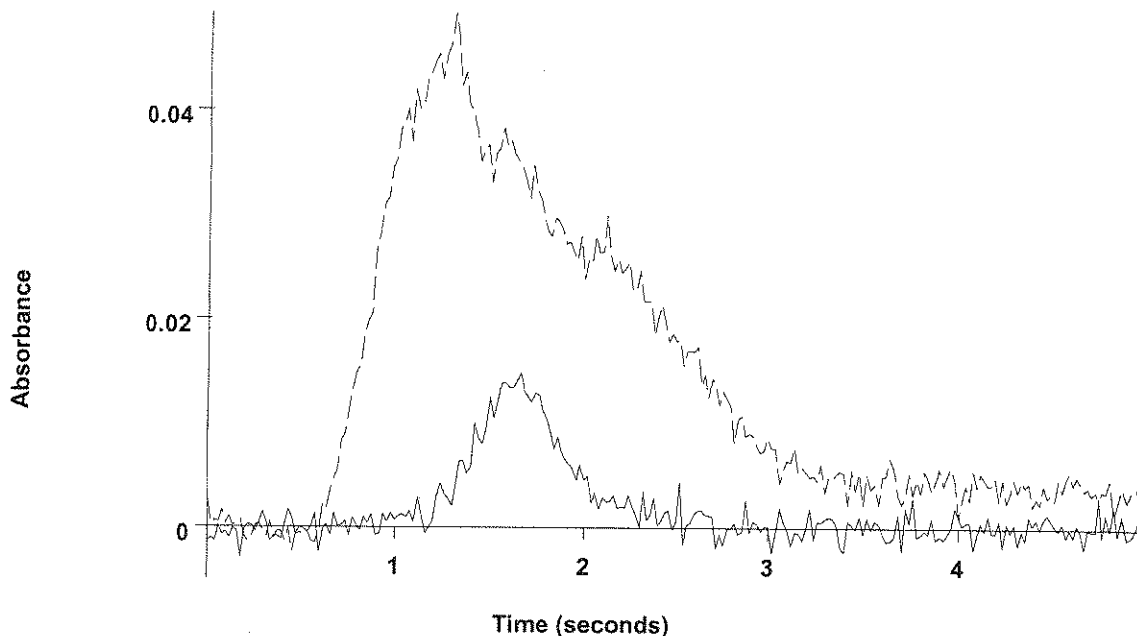


2	13.9	13.9	0.0530	0.0536	0.0685	0.0914	0.0689	02:20:45	Yes
Mean:	14.0	14.0	0.0530						
SD :	0.02	0.02	0.0001						
%RSD:	0.15	0.15	0.15						

=====  
 Element: As    Seq. No.: 233    AS Loc.: 30    Date: 06/29/2006  
 Sample ID: 0606373-02X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 30  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.9	1.9	0.0078	0.0083	0.0148	0.0690	0.0493	02:23:34	Yes

As



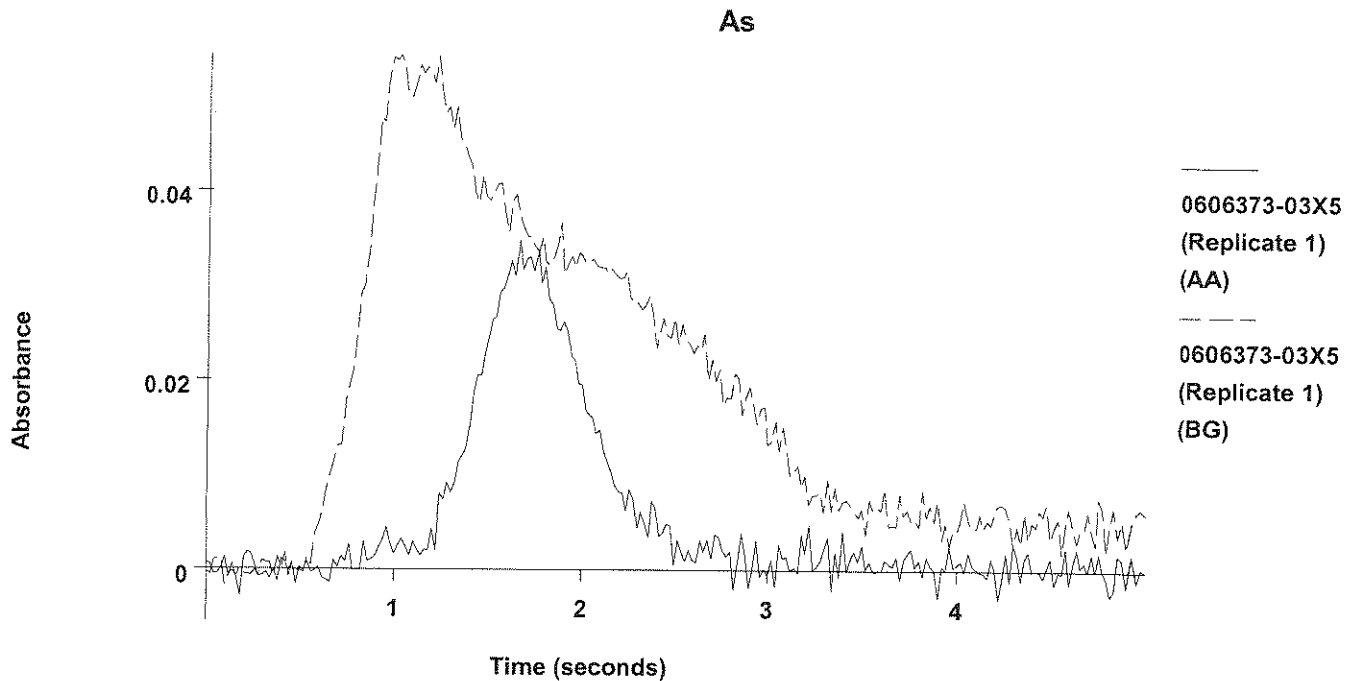
-----  
 0606373-02X5  
 (Replicate 1)  
 (AA)  
 -----  
 0606373-02X5  
 (Replicate 1)  
 (BG)

2	2.2	2.2	0.0089	0.0095	0.0152	0.0729	0.0504	02:26:23	Yes
Mean:	2.0	2.0	0.0084						
SD :	0.22	0.22	0.0008						
%RSD:	10.8	10.8	9.93						

*Handwritten signature*

=====  
 Element: As    Seq. No.: 234    AS Loc.: 31    Date: 06/29/2006  
 Sample ID: 0606373-03X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 31  
 =====

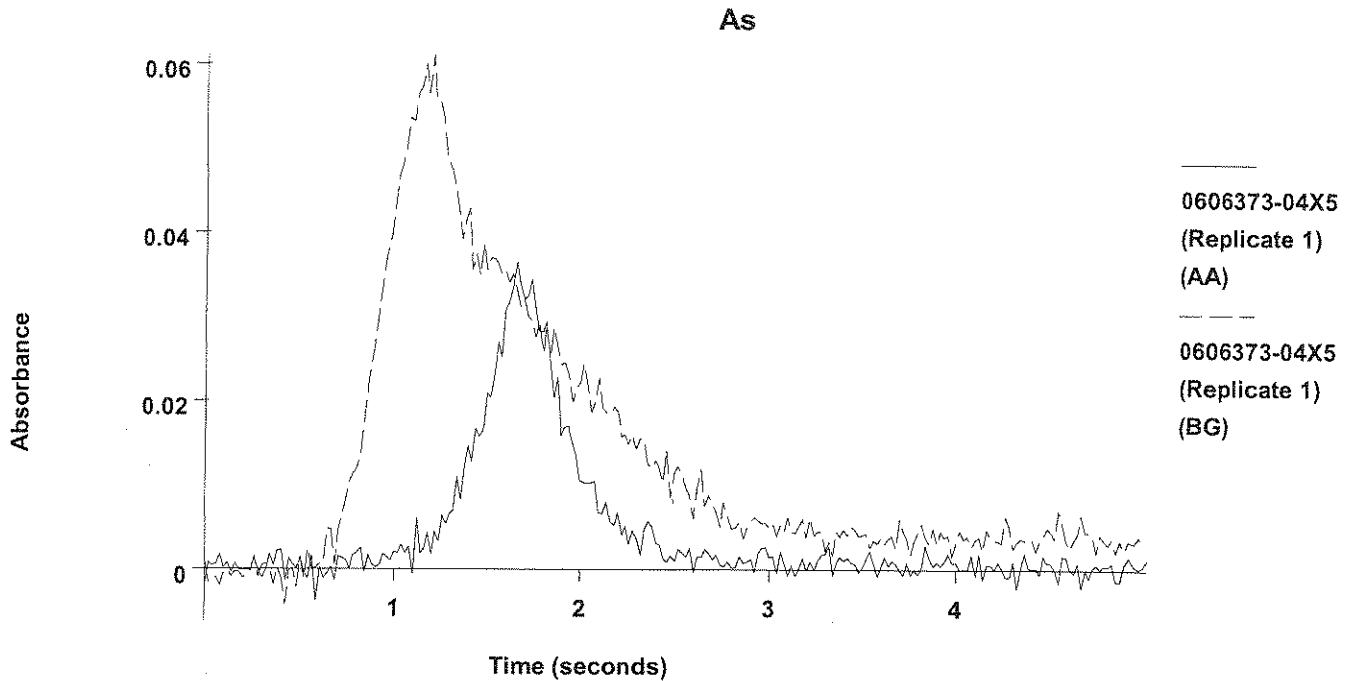
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	6.4	6.4	0.0247	0.0253	0.0348	0.0903	0.0543	02:29:13	Yes



2	6.2	6.2	0.0240	0.0245	0.0356	0.0897	0.0504	02:32:02	Yes
Mean:	6.3	6.3	0.0243						
SD :	0.14	0.14	0.0005						
%RSD:	2.23	2.23	2.17						

=====  
 Element: As    Seq. No.: 235    AS Loc.: 32    Date: 06/29/2006  
 Sample ID: 0606373-04X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 32  
 =====

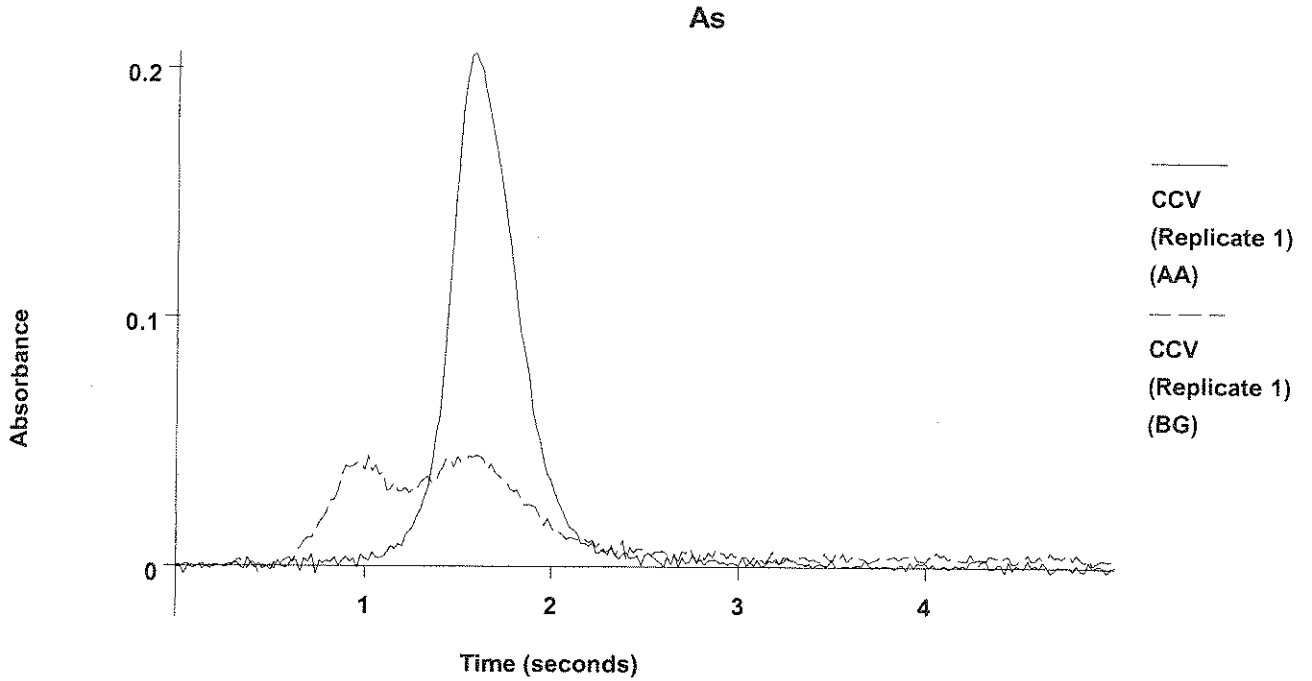
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.3	5.3	0.0205	0.0211	0.0365	0.0650	0.0610	02:34:51	Yes



2	4.7	4.7	0.0182	0.0188	0.0345	0.0640	0.0582	02:37:43	Yes
Mean:	5.0	5.0	0.0194						
SD :	0.43	0.43	0.0016						
%RSD:	8.58	8.58	8.27						

=====  
 Element: As    Seq. No.: 236    AS Loc.: 126    Date: 06/29/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.3	24.3	0.0918	0.0924	0.2061	0.0578	0.0443	02:40:37	Yes

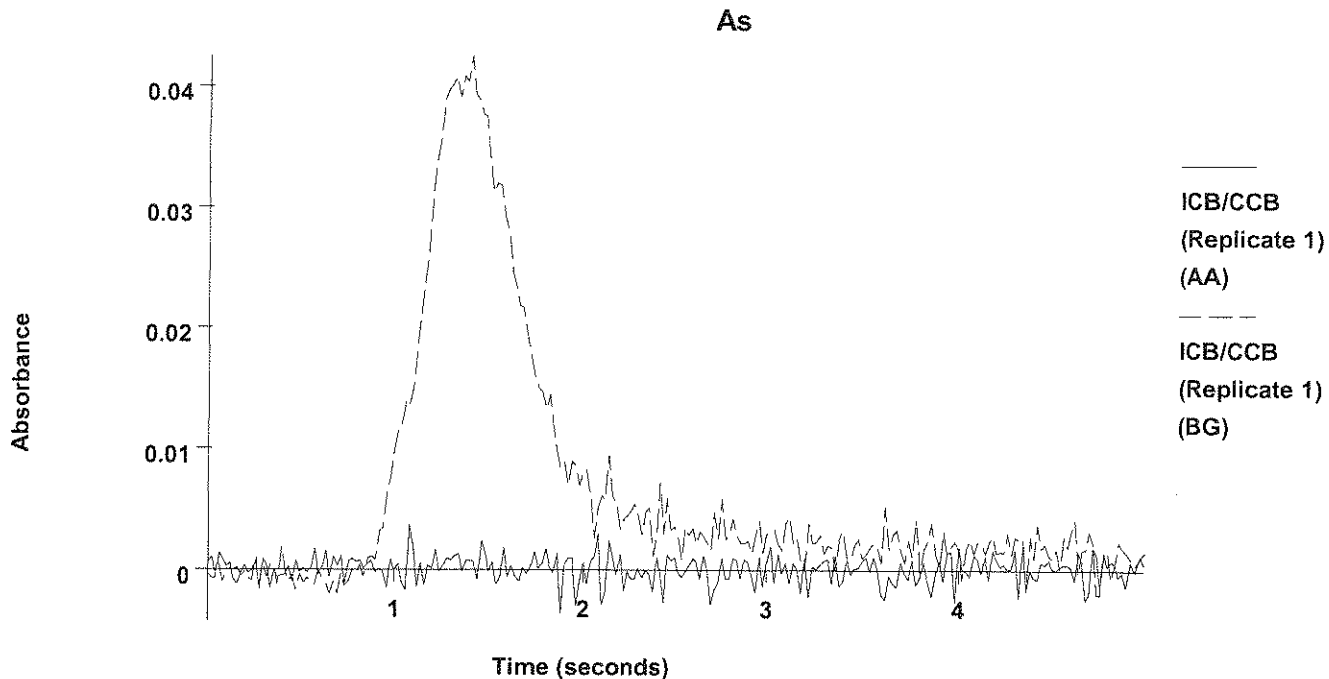


2	23.8	23.8	0.0899	0.0905	0.2046	0.0578	0.0464	02:43:30	Yes
Mean:	24.0	24.0	0.0909						
SD :	0.37	0.37	0.0014						
%RSD:	1.53	1.53	1.52						

QC value within specified limits.

=====  
 Element: As    Seq. No.: 237    AS Loc.: 148    Date: 06/29/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0002	0.0003	0.0038	0.0318	0.0425	02:46:20	Yes

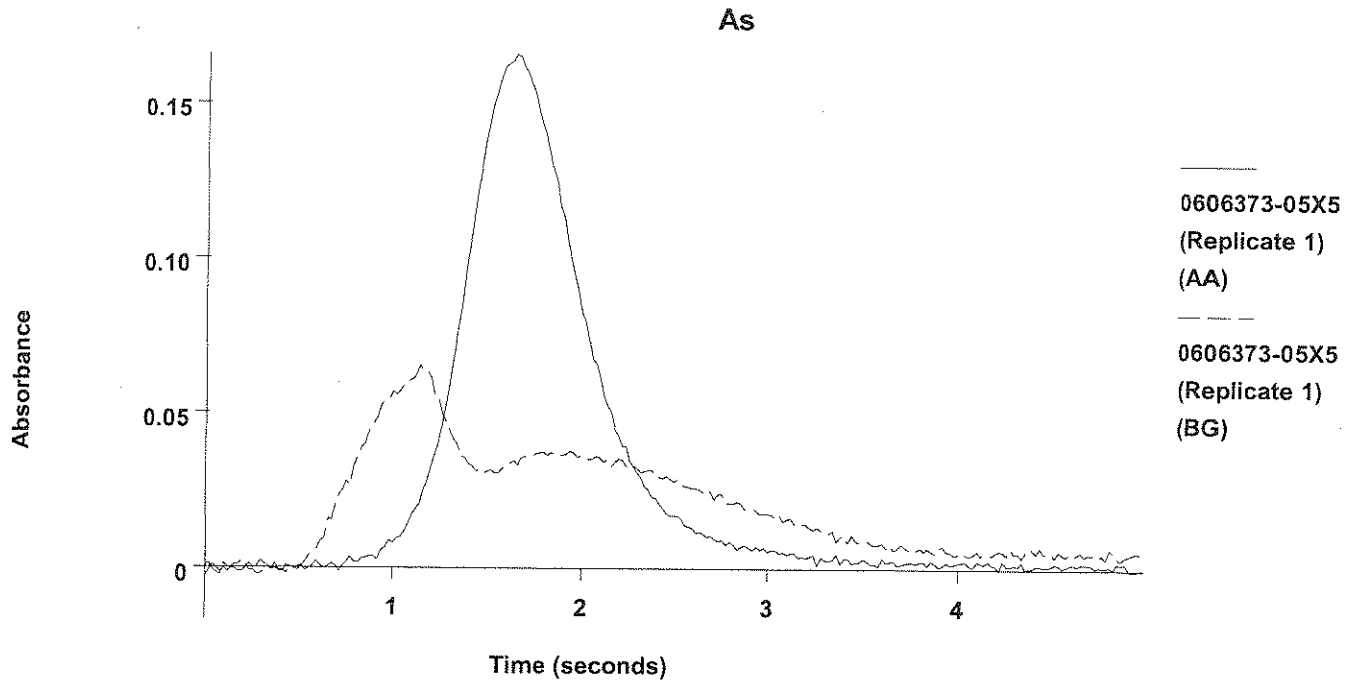


2	-0.1	-0.1	0.0005	0.0011	0.0027	0.0297	0.0363	02:49:09	Yes
Mean:	-0.2	-0.2	0.0001						
SD :	0.14	0.14	0.0005						
%RSD:	86.5	86.5	449.40						

QC value within specified limits.

=====  
 Element: As    Seq. No.: 238    AS Loc.: 33    Date: 06/29/2006  
 Sample ID: 0606373-05X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 33  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	33.9	33.9	0.1279	0.1284	0.1656	0.0980	0.0653	02:51:59	Yes

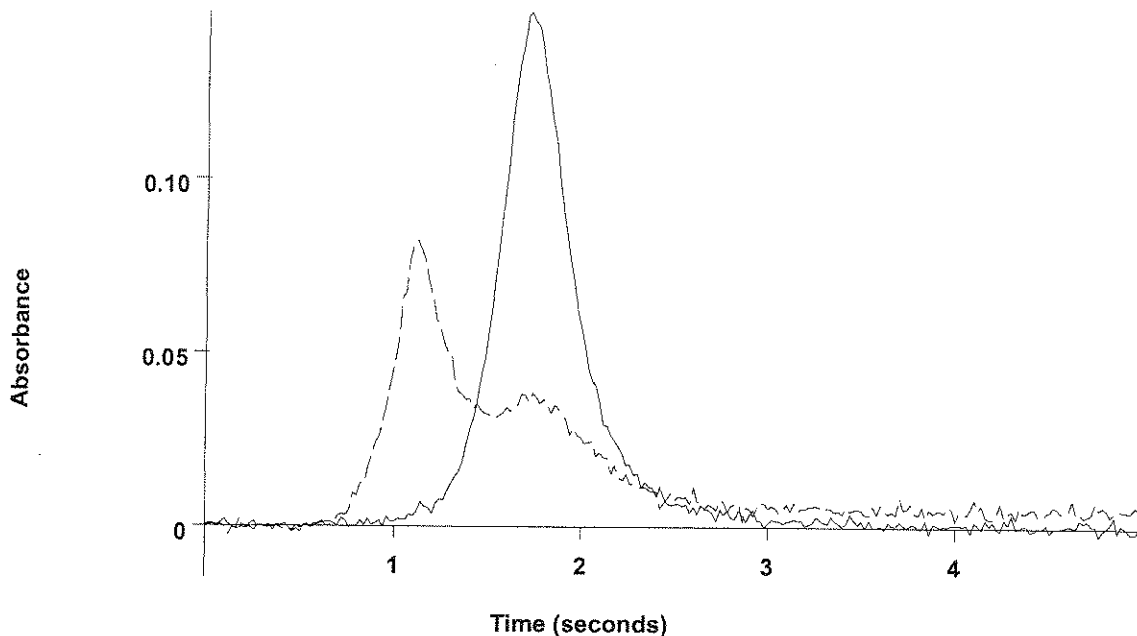


2	34.8	34.8	0.1310	0.1316	0.1797	0.0964	0.0601	02:54:49	Yes
Mean:	34.3	34.3	0.1295						
SD :	0.60	0.60	0.0022						
%RSD:	1.75	1.75	1.74						

=====  
 Element: As    Seq. No.: 239    AS Loc.: 34    Date: 06/29/2006  
 Sample ID: 0606373-06X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 34  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.0	20.0	0.0757	0.0762	0.1480	0.0697	0.0822	02:57:39	Yes

As



0606373-06X5  
(Replicate 1)  
(AA)  
-----  
0606373-06X5  
(Replicate 1)  
(BG)

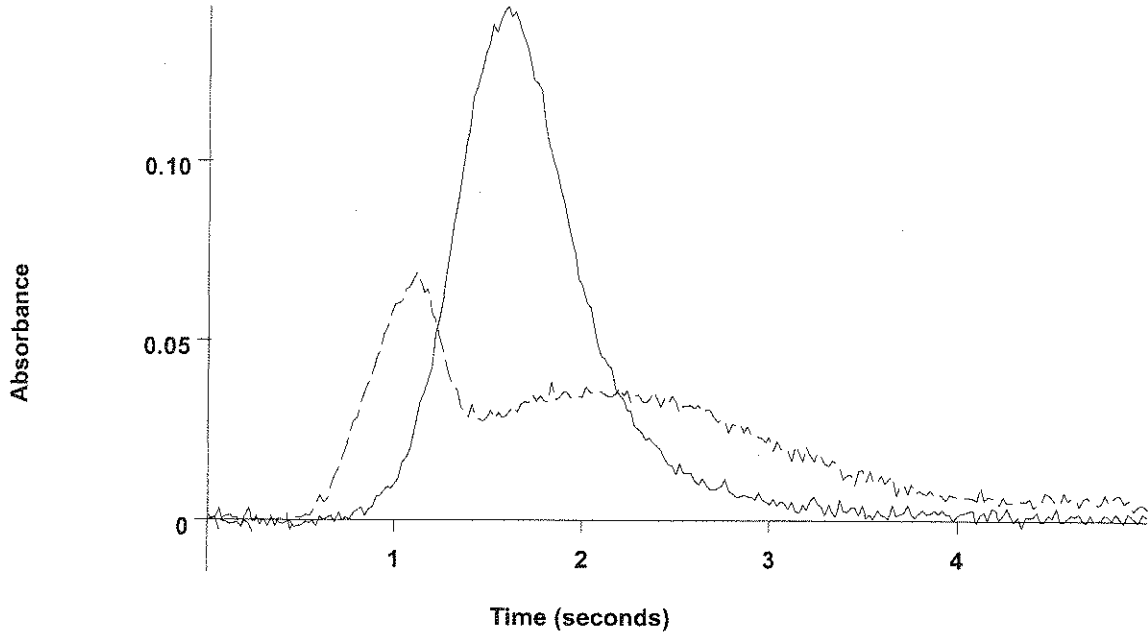
2	20.5	20.5	0.0775	0.0781	0.1609	0.0692	0.0903	03:00:29	Yes
Mean:	20.2	20.2	0.0766						
SD :	0.35	0.35	0.0013						
%RSD:	1.74	1.74	1.72						

=====  
Element: As    Seq. No.: 240    AS Loc.: 35    Date: 06/29/2006  
Sample ID: 0606373-07X5  
µL dispensed: 10 from 148, 5 from 147, 15 from 35  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	30.7	30.7	0.1157	0.1162	0.1431	0.1023	0.0689	03:03:20	Yes



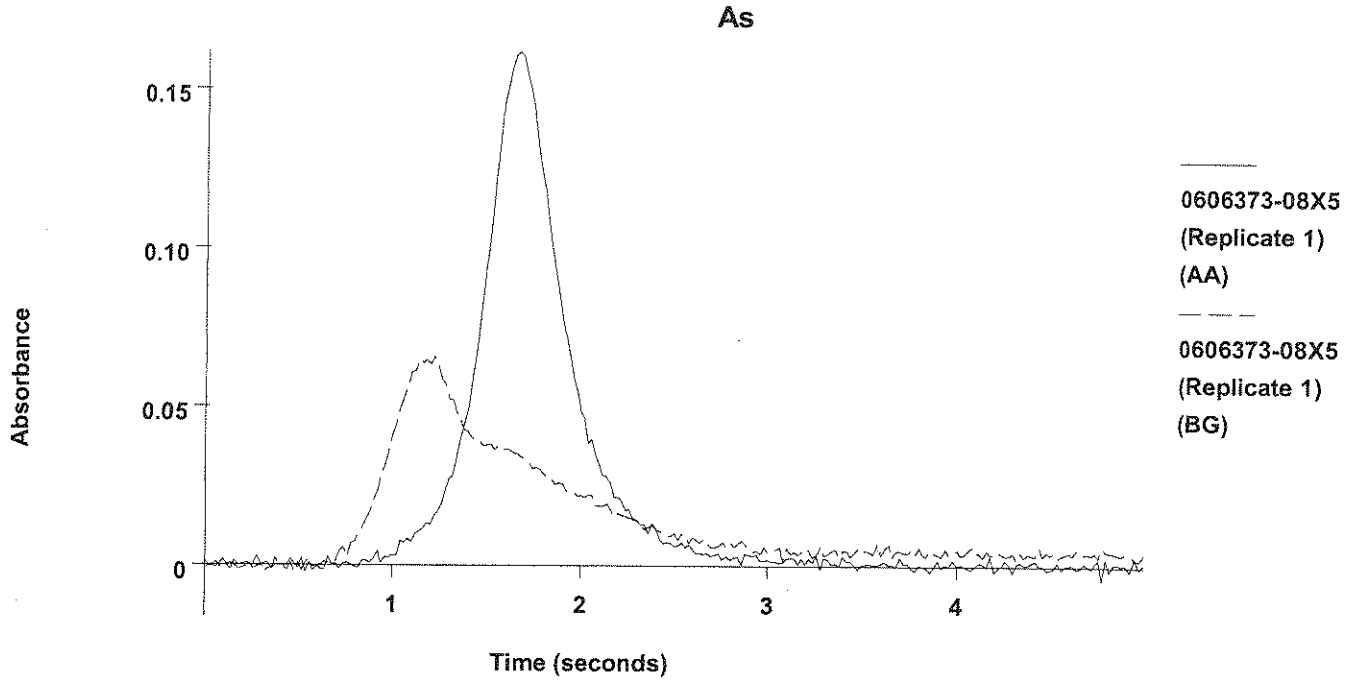
As



2	31.4	31.4	0.1184	0.1190	0.1466	0.1062	0.0644	03:06:10	Yes
Mean:	31.0	31.0	0.1170						
SD :	0.52	0.52	0.0019						
%RSD:	1.67	1.67	1.66						

=====  
 Element: As    Seq. No.: 241    AS Loc.: 36    Date: 06/29/2006  
 Sample ID: 0606373-08X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 36  
 =====

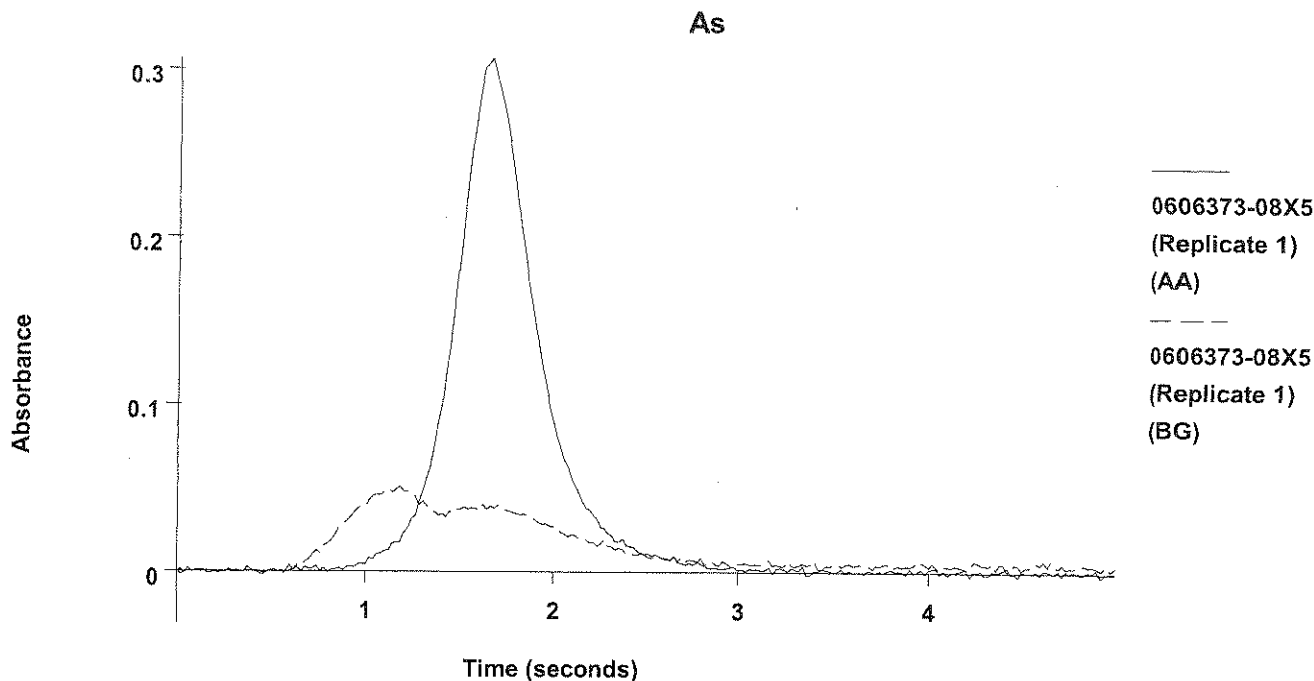
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	22.8	22.8	0.0862	0.0868	0.1617	0.0657	0.0658	03:09:00	Yes



2	22.6	22.6	0.0854	0.0860	0.1586	0.0654	0.0628	03:11:50	Yes
Mean:	22.7	22.7	0.0858						
SD :	0.15	0.15	0.0006						
%RSD:	0.65	0.65	0.64						

=====  
 Element: As    Seq. No.: 242    AS Loc.: 36    Date: 06/29/2006  
 Sample ID: 0606373-08X5  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 36  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	42.7	42.7	0.1606	0.1612	0.3068	0.0662	0.0508	03:14:49	Yes

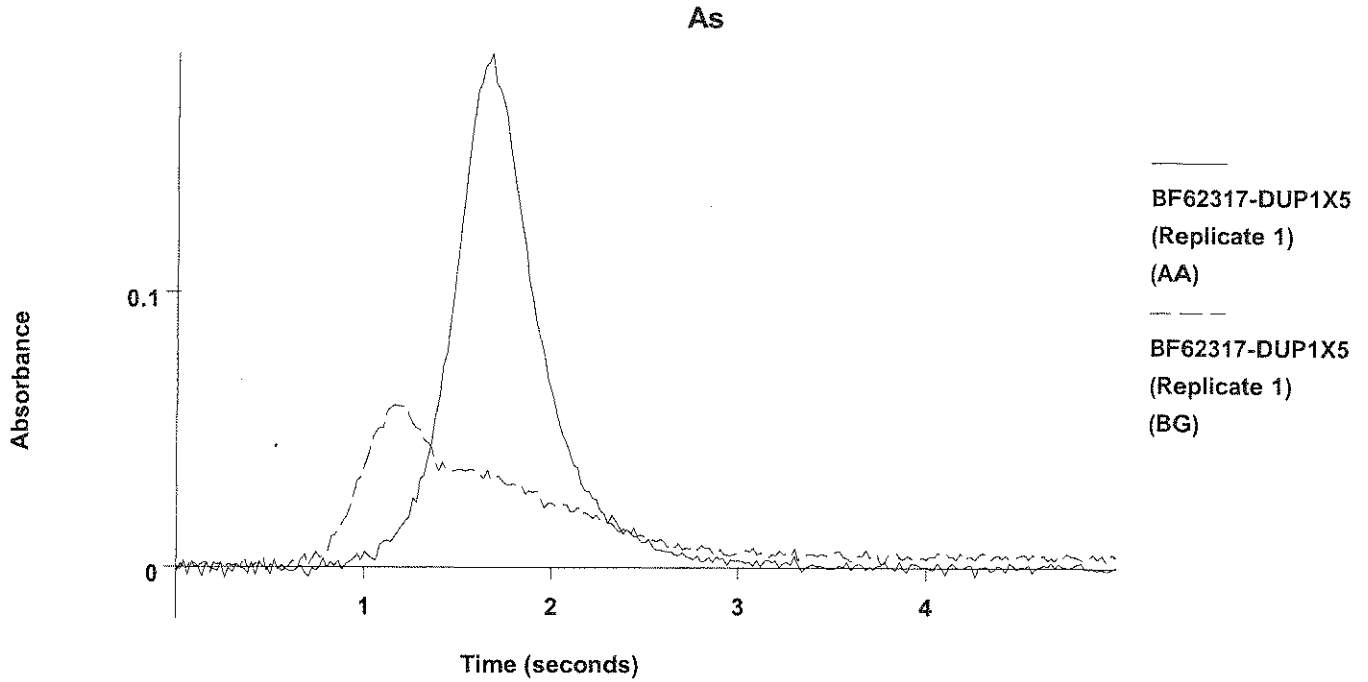


2	42.2	42.2	0.1591	0.1597	0.2996	0.0664	0.0508	03:17:46	Yes
Mean:	42.4	42.4	0.1599						
SD :	0.29	0.29	0.0011						
%RSD:	0.68	0.68	0.68						

Recovery for As = 98.8 % within 85 % to 115 % ✓

=====  
 Element: As    Seq. No.: 243    AS Loc.: 37    Date: 06/29/2006  
 Sample ID: BF62317-DUP1X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 37  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.9	26.9	0.1017	0.1023	0.1872	0.0650	0.0591	03:20:36	Yes

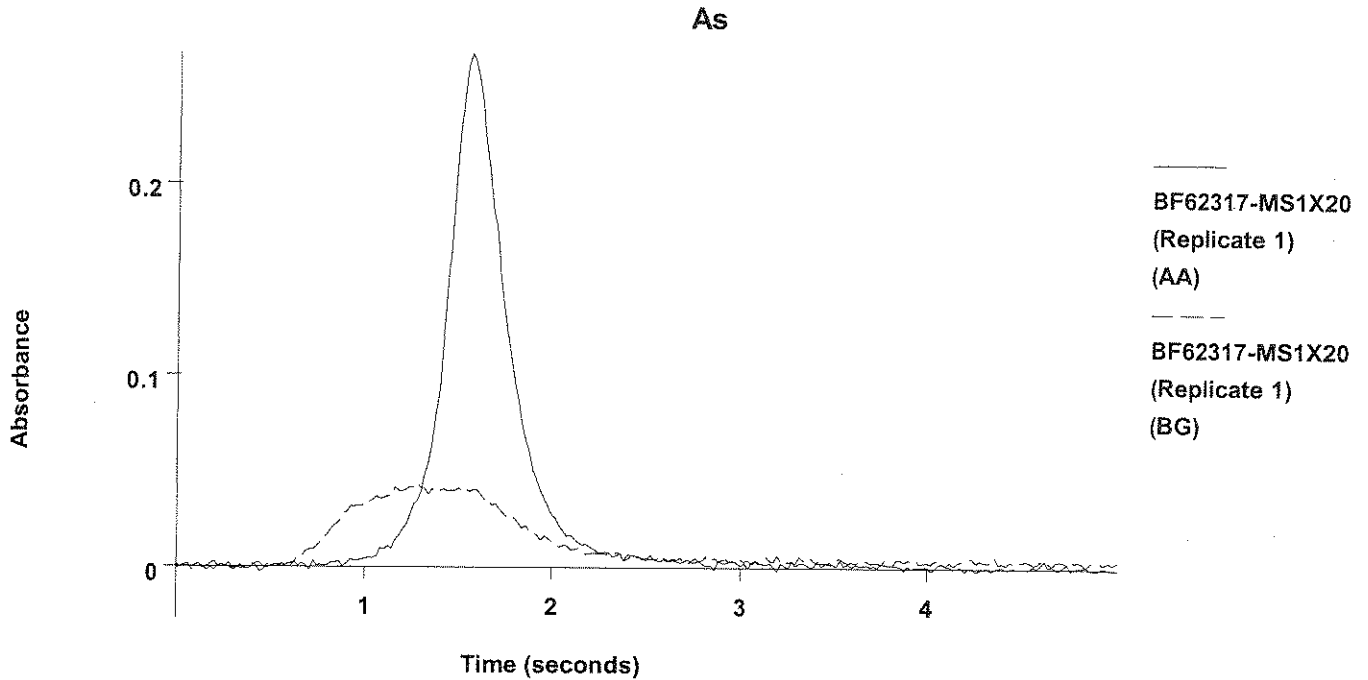


2	28.4	28.4	0.1071	0.1077	0.1930	0.0673	0.0638	03:23:27	Yes
Mean:	27.7	27.7	0.1044						
SD :	1.02	1.02	0.0038						
%RSD:	3.68	3.68	3.65						

$$\frac{27.7 - 22.7}{25.2} = 205$$

=====  
 Element: As    Seq. No.: 244    AS Loc.: 38    Date: 06/29/2006  
 Sample ID: BF62317-MS1X20  
 µL dispensed: 10 from 148, 5 from 147, 15 from 38  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	28.6	28.6	0.1077	0.1083	0.2676	0.0538	0.0433	03:26:17	Yes

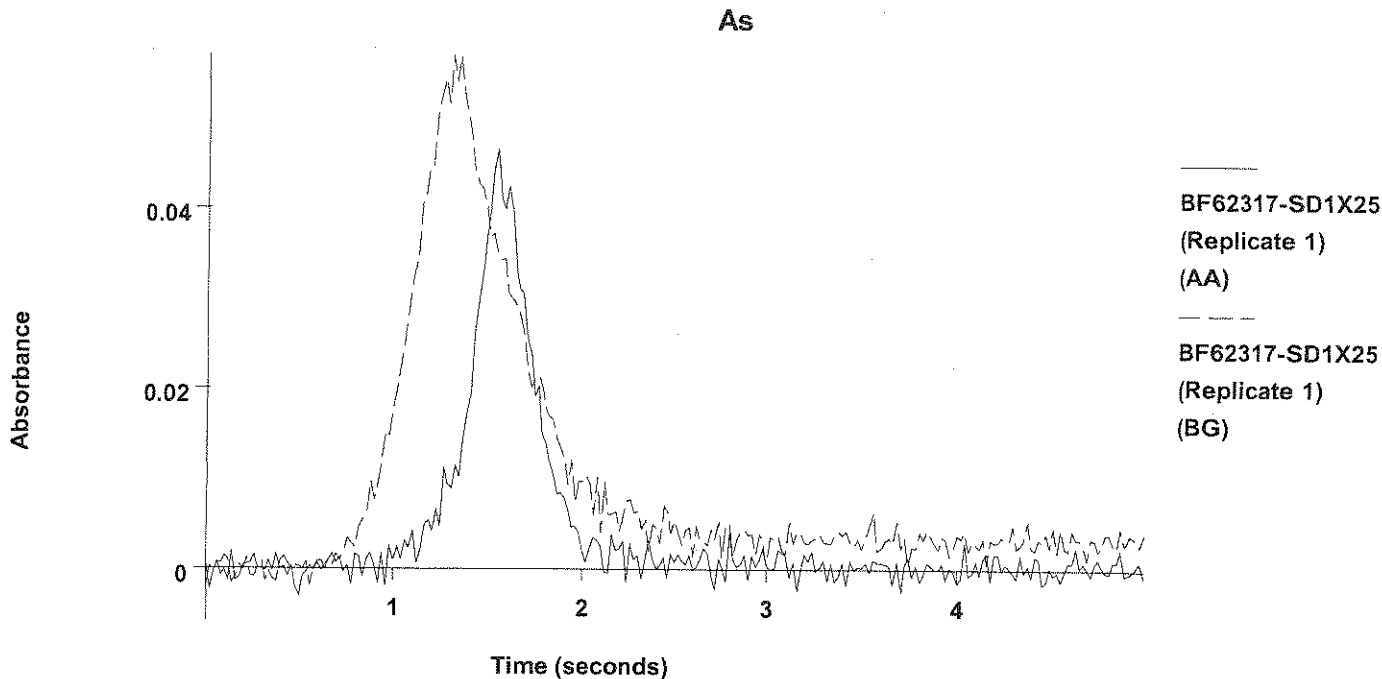


2	30.1	30.1	0.1135	0.1141	0.2527	0.0598	0.0523	03:29:07	Yes
Mean:	29.3	29.3	0.1106						
SD :	1.08	1.08	0.0041						
%RSD:	3.69	3.69	3.67						

$\frac{29.3(20) - 22.7(5)}{500} = 94.5\%$

=====  
 Element: As    Seq. No.: 245    AS Loc.: 39    Date: 06/29/2006  
 Sample ID: BF62317-SD1X25  
 µL dispensed: 10 from 148, 5 from 147, 15 from 39  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.6	4.6	0.0179	0.0185	0.0465	0.0455	0.0569	03:31:57	Yes



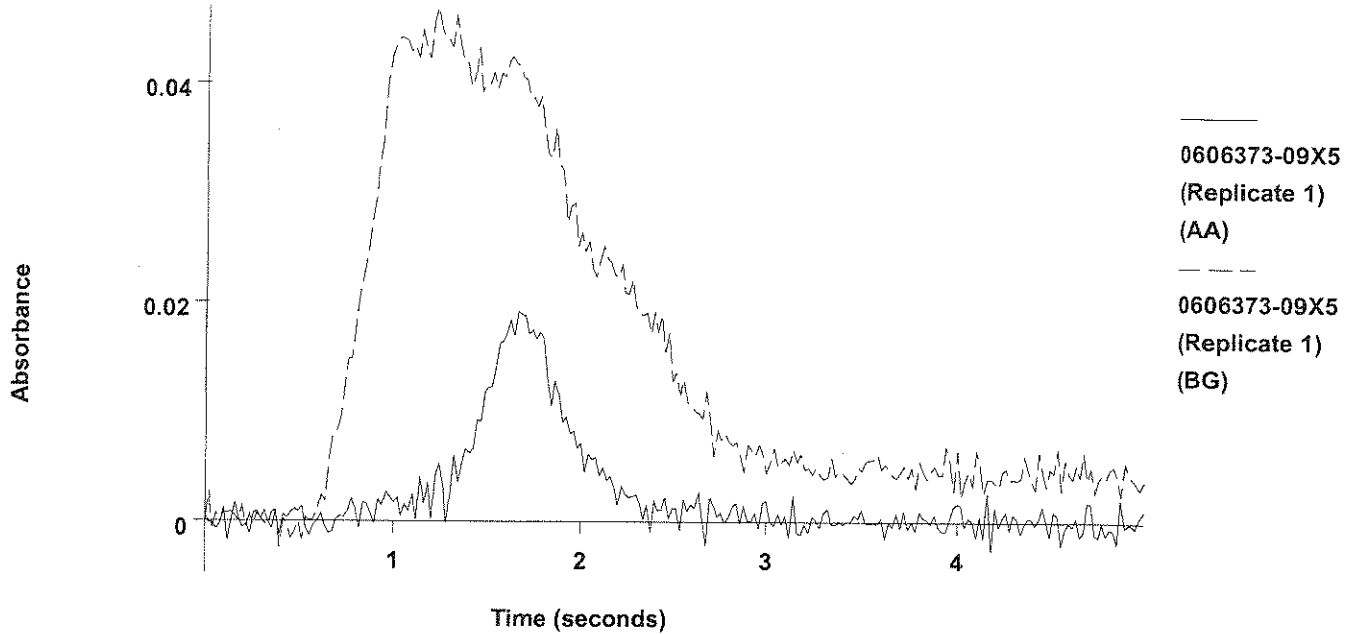
2	5.0	5.0	0.0195	0.0201	0.0480	0.0497	0.0661	03:34:47	Yes
Mean:	4.8	4.8	0.0187						
SD :	0.30	0.30	0.0011						
%RSD:	6.24	6.24	6.01						

*Handwritten signature*

=====  
 Element: As    Seq. No.: 246    AS Loc.: 40    Date: 06/29/2006  
 Sample ID: 0606373-09X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 40  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.7	2.7	0.0109	0.0114	0.0192	0.0717	0.0470	03:37:38	Yes

As

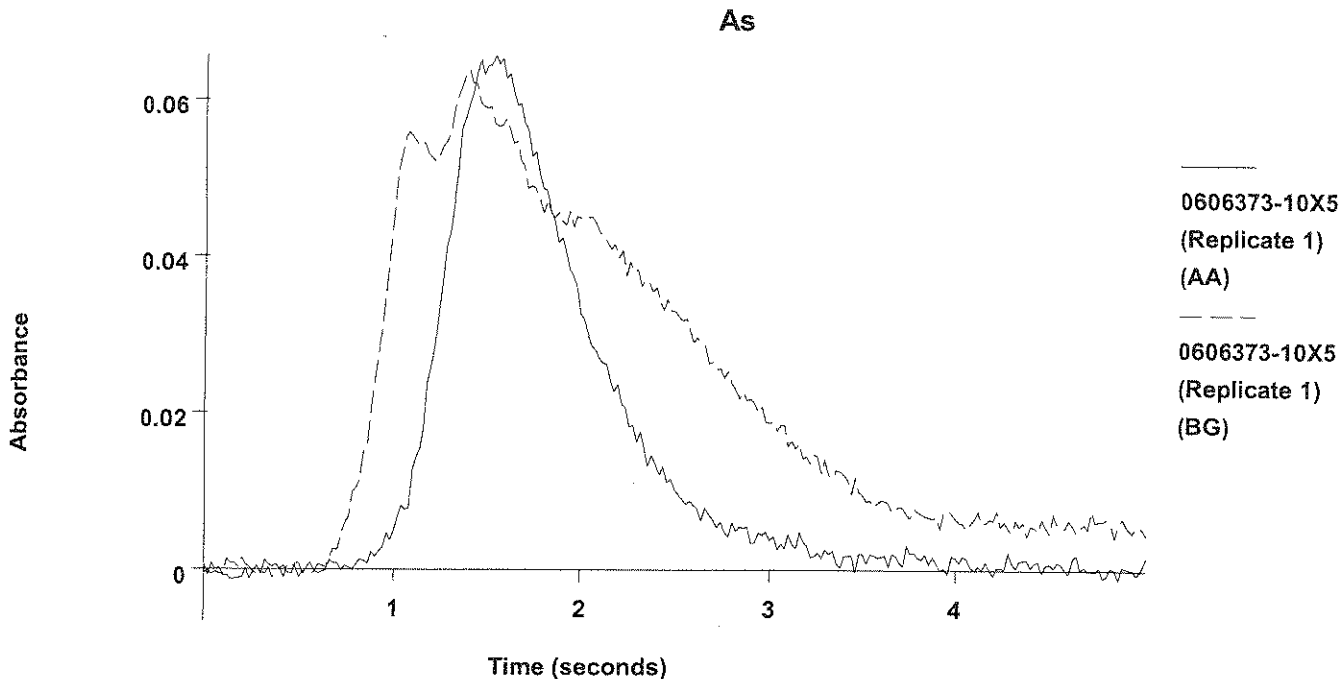


2	3.0	3.0	0.0119	0.0124	0.0202	0.0741	0.0480	03:40:28	Yes
Mean:	2.8	2.8	0.0114						
SD :	0.19	0.19	0.0007						
%RSD:	6.62	6.62	6.21						

*MD*

=====  
 Element: As    Seq. No.: 247    AS Loc.: 41    Date: 06/29/2006  
 Sample ID: 0606373-10X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 41  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	15.6	15.6	0.0593	0.0599	0.0656	0.1081	0.0637	03:43:17	Yes

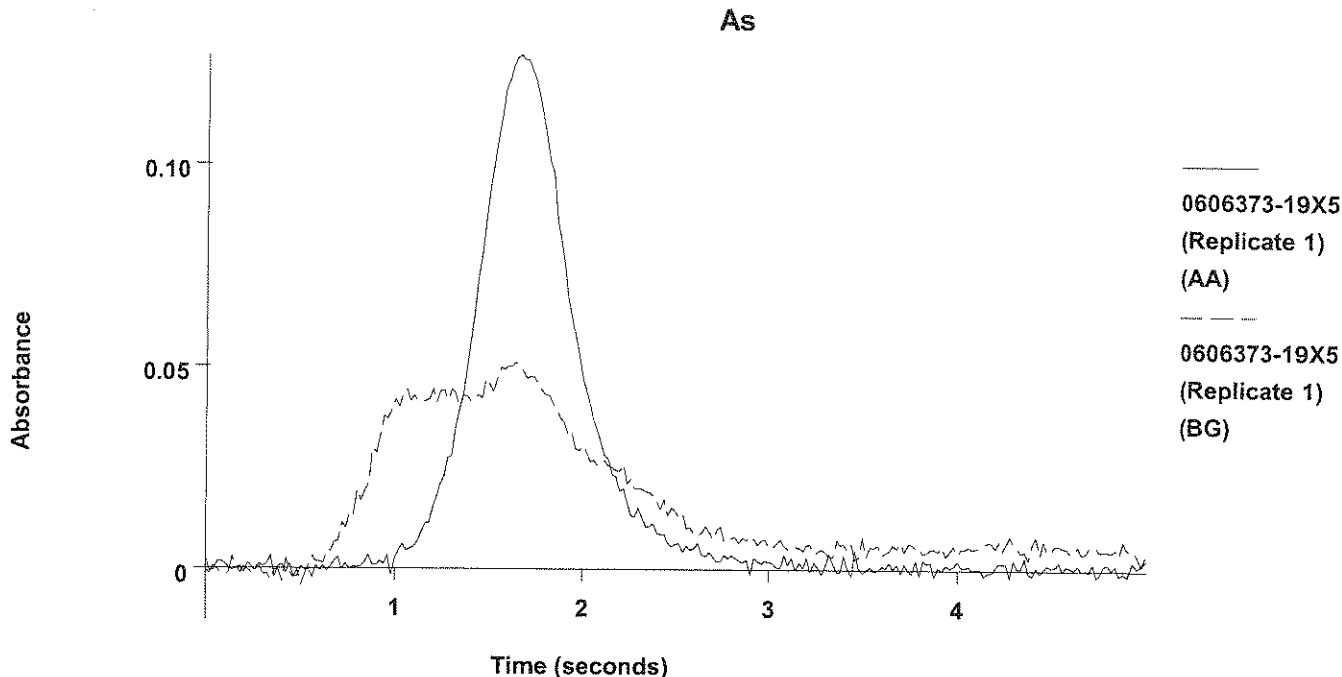


2	15.6	15.6	0.0591	0.0596	0.0651	0.1069	0.0635	03:46:07	Yes
Mean:	15.6	15.6	0.0592						
SD :	0.04	0.04	0.0002						
%RSD:	0.28	0.28	0.28						

=====  
 Element: As    Seq. No.: 248    AS Loc.: 42    Date: 06/29/2006  
 Sample ID: 0606373-19X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 42  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.8	20.8	0.0787	0.0792	0.1269	0.0759	0.0510	03:48:58	Yes

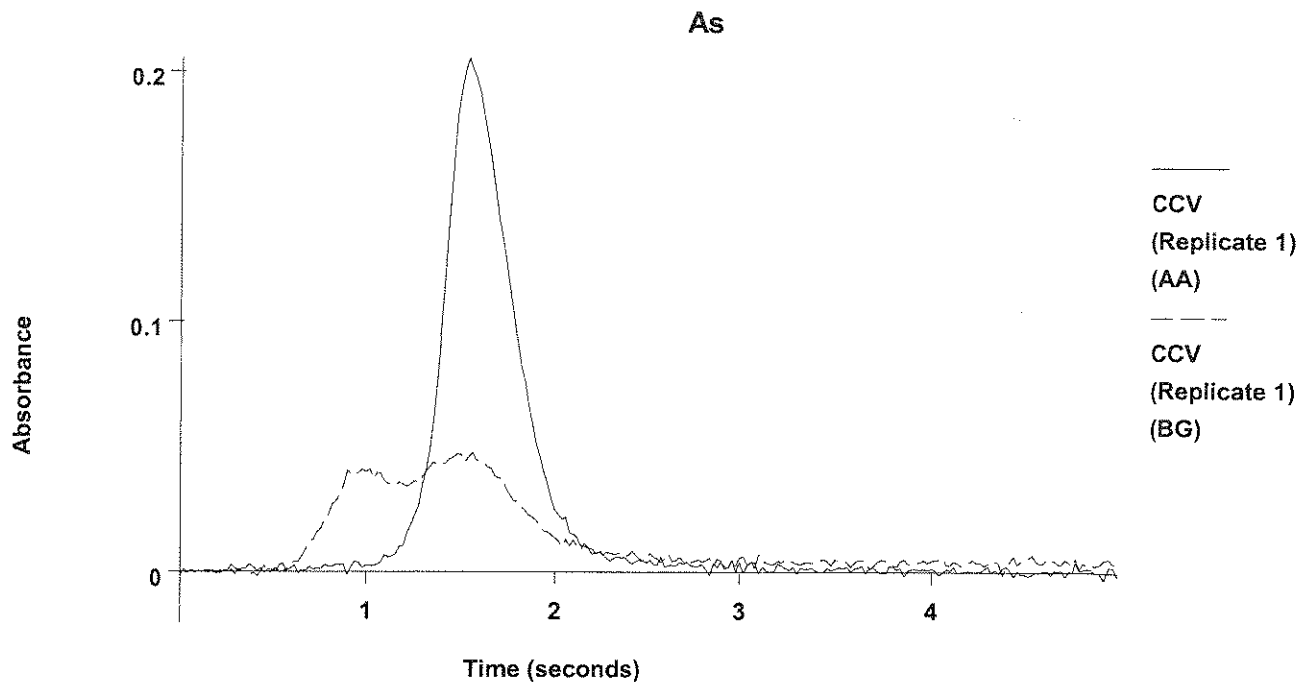




2	20.9	20.9	0.0792	0.0798	0.1192	0.0821	0.0550	03:51:47	Yes
Mean:	20.9	20.9	0.0789						
SD :	0.11	0.11	0.0004						
%RSD:	0.51	0.51	0.50						

=====  
 Element: As    Seq. No.: 249    AS Loc.: 126    Date: 06/29/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

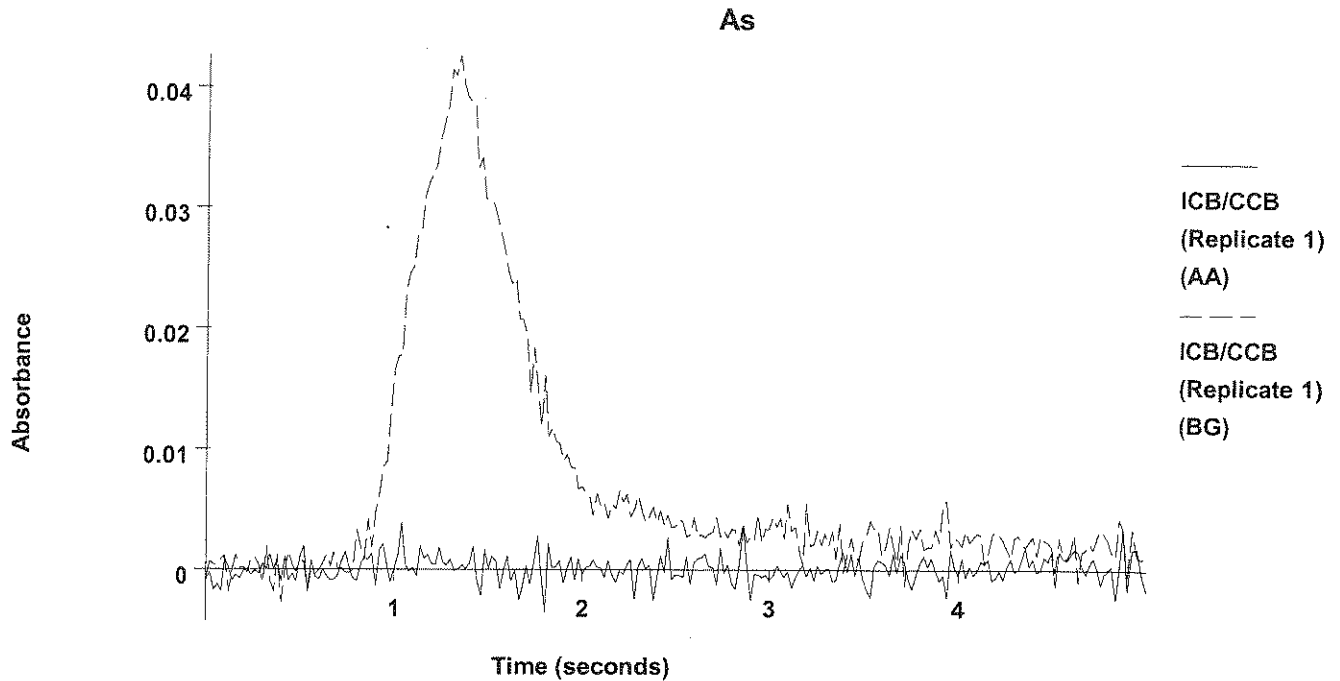
Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.4	24.4	0.0921	0.0927	0.2053	0.0595	0.0478	03:54:39	Yes



2            24.3        24.3        0.0919     0.0925     0.2029     0.0601     0.0480     03:57:32   Yes  
 Mean:       24.4        24.4        0.0920  
 SD :        0.03        0.03        0.0001  
 %RSD:      0.14        0.14        0.14  
 QC value within specified limits. ✓

=====  
 Element: As    Seq. No.: 250        AS Loc.: 148    Date: 06/29/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0001	0.0004	0.0039	0.0349	0.0426	04:00:23	Yes



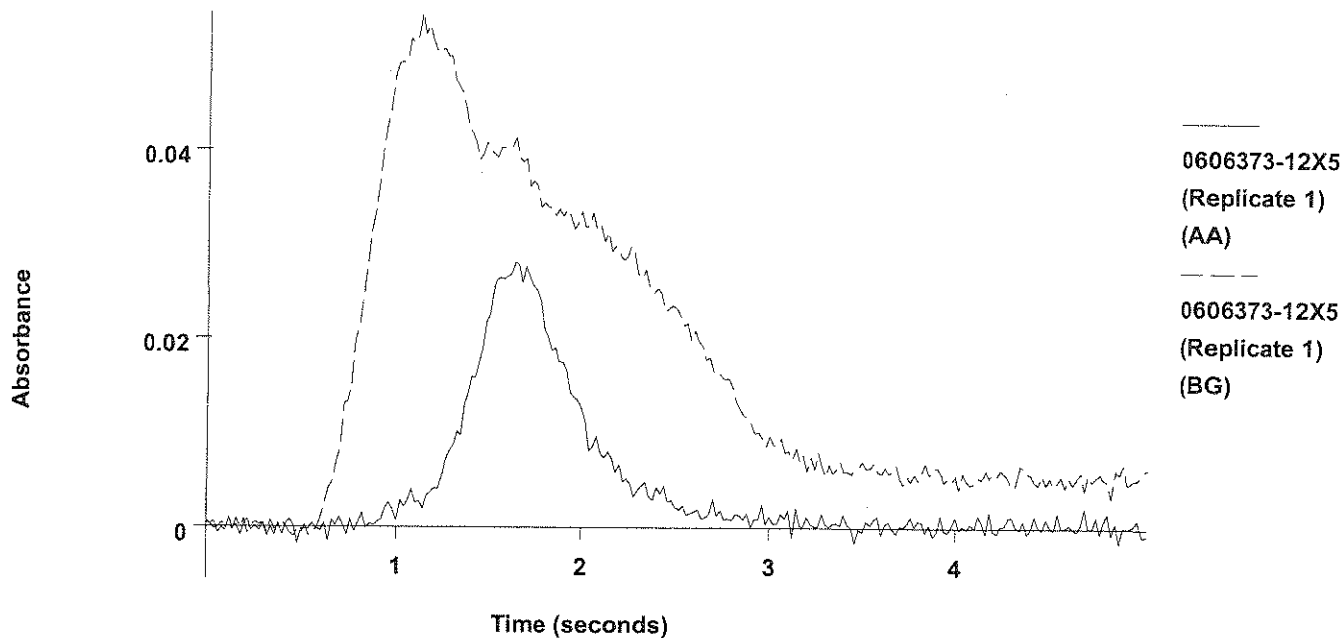
2	-0.4	-0.4	-0.0007	-0.0001	0.0023	0.0320	0.0369	04:03:12	Yes
Mean:	-0.3	-0.3	-0.0004						
SD :	0.11	0.11	0.0004						
%RSD:	35.6	35.6	96.61						

QC value within specified limits.

=====  
 Element: As    Seq. No.: 251    AS Loc.: 43    Date: 06/29/2006  
 Sample ID: 0606373-12X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 43  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.9	4.9	0.0192	0.0198	0.0281	0.0849	0.0545	04:06:01	Yes

As



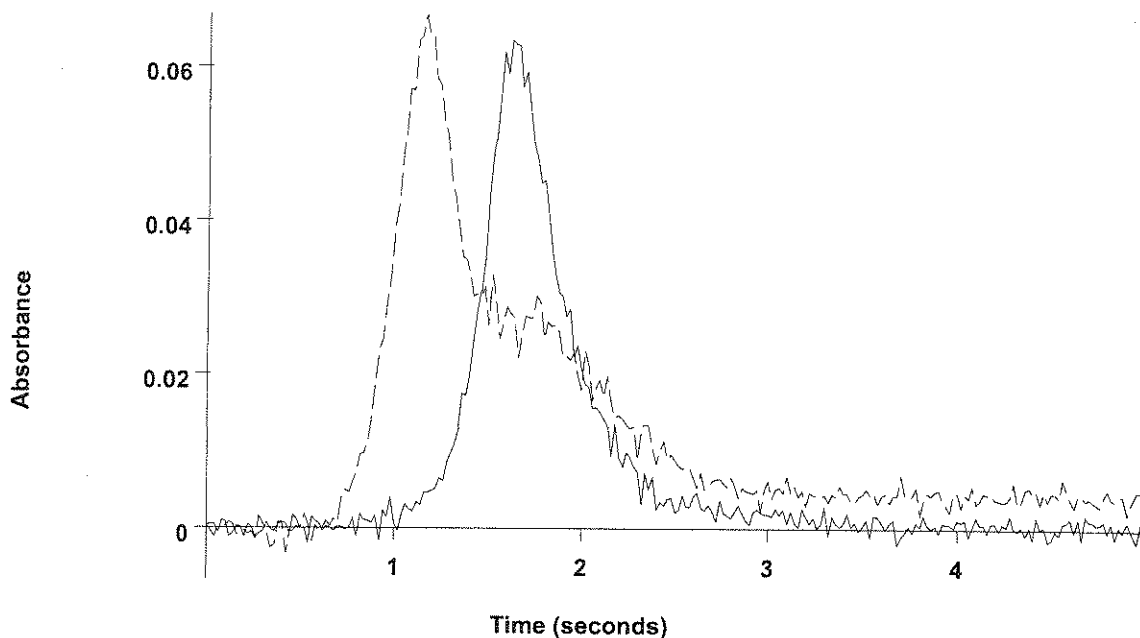
2	4.9	4.9	0.0189	0.0195	0.0281	0.0851	0.0578	04:08:52	Yes
Mean:	4.9	4.9	0.0191						
SD :	0.06	0.06	0.0002						
%RSD:	1.27	1.27	1.23						

*Handwritten signature or initials*

=====  
 Element: As    Seq. No.: 252    AS Loc.: 44    Date: 06/29/2006  
 Sample ID: 0606373-13X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 44  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	9.2	9.2	0.0351	0.0356	0.0634	0.0596	0.0668	04:11:43	Yes

As



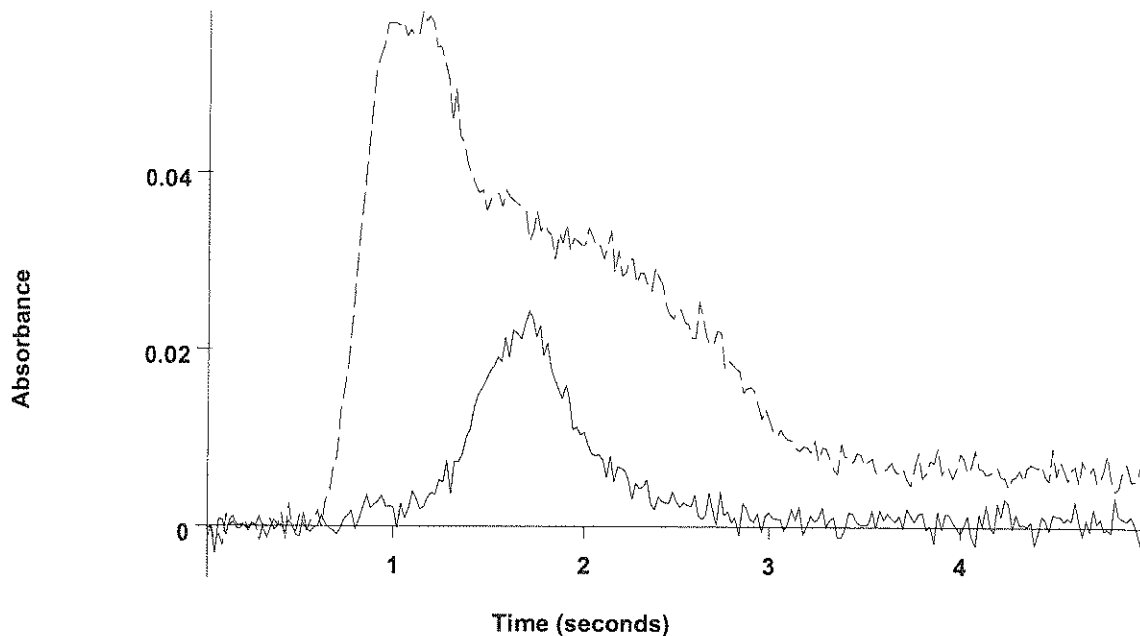
0606373-13X5  
(Replicate 1)  
(AA)  
0606373-13X5  
(Replicate 1)  
(BG)

2	8.8	8.8	0.0339	0.0344	0.0675	0.0607	0.0671	04:14:35	Yes
Mean:	9.0	9.0	0.0345						
SD :	0.23	0.23	0.0009						
%RSD:	2.54	2.54	2.49						

=====  
Element: As    Seq. No.: 253    AS Loc.: 45    Date: 06/29/2006  
Sample ID: 0606373-14X5  
µL dispensed: 10 from 148, 5 from 147, 15 from 45  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.4	4.4	0.0172	0.0178	0.0243	0.0916	0.0582	04:17:26	Yes

As



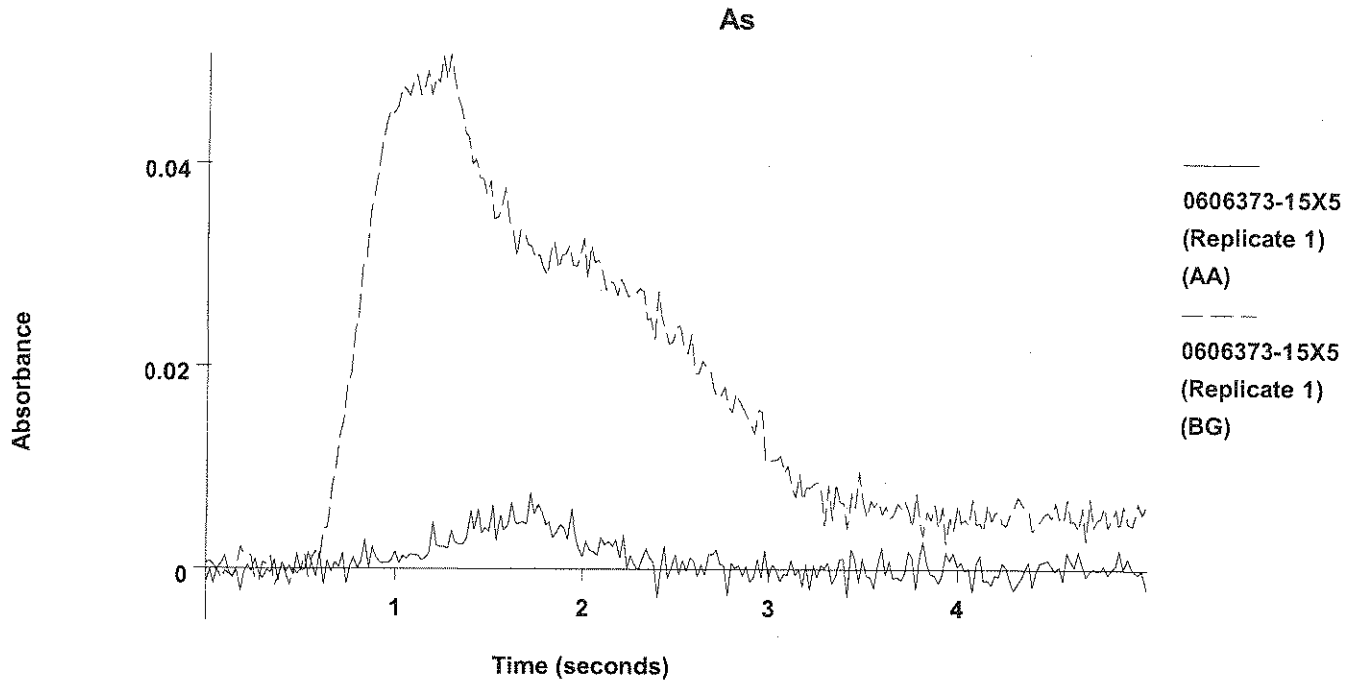
0606373-14X5  
(Replicate 1)  
(AA)  
0606373-14X5  
(Replicate 1)  
(BG)

2	3.5	3.5	0.0138	0.0144	0.0227	0.0845	0.0617	04:20:18	Yes
Mean:	3.9	3.9	0.0155						
SD :	0.65	0.65	0.0024						
%RSD:	16.4	16.4	15.62						

*PK*

=====  
Element: As    Seq. No.: 254    AS Loc.: 46    Date: 06/29/2006  
Sample ID: 0606373-15X5  
µL dispensed: 10 from 148, 5 from 147, 15 from 46  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.8	0.8	0.0039	0.0044	0.0075	0.0835	0.0508	04:23:09	Yes



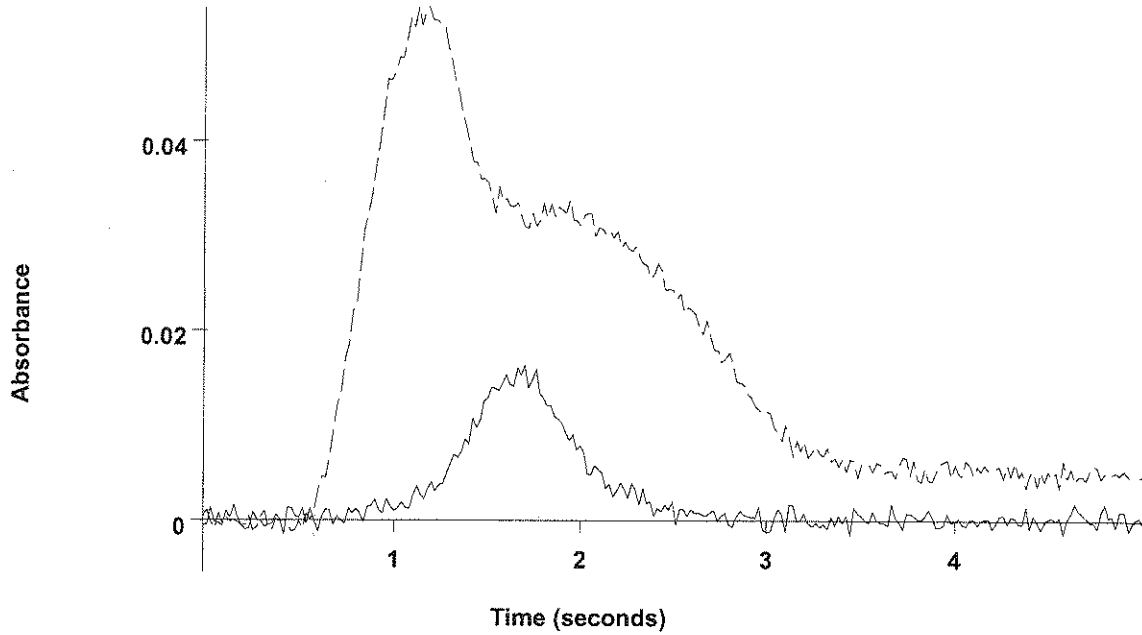
2	1.2	1.2	0.0052	0.0058	0.0089	0.0843	0.0491	04:25:59	Yes
Mean:	1.0	1.0	0.0045						
SD :	0.25	0.25	0.0009						
%RSD:	24.8	24.8	20.94						

D

=====  
 Element: As    Seq. No.: 255    AS Loc.: 47    Date: 06/29/2006  
 Sample ID: 0606373-16X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 47  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.7	2.7	0.0110	0.0116	0.0164	0.0844	0.0541	04:28:50	Yes

As



0606373-16X5  
(Replicate 1)  
(AA)

0606373-16X5  
(Replicate 1)  
(BG)

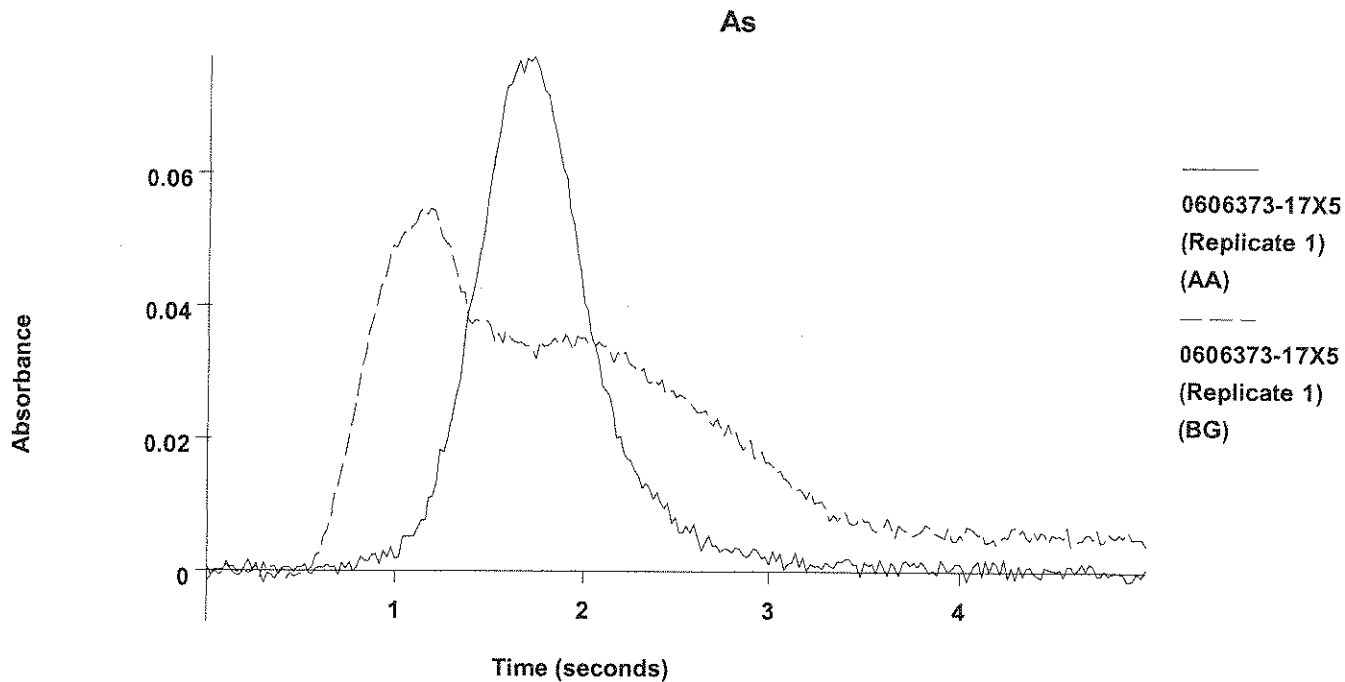
2	3.1	3.1	0.0124	0.0130	0.0158	0.0840	0.0565	04:31:39	Yes
Mean:	2.9	2.9	0.0117						
SD :	0.26	0.26	0.0010						
%RSD:	8.95	8.95	8.41						

*Handwritten signature*

=====  
 Element: As    Seq. No.: 256    AS Loc.: 48    Date: 06/29/2006  
 Sample ID: 0606373-17X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 48  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	15.2	15.2	0.0576	0.0582	0.0775	0.0918	0.0547	04:34:30	Yes

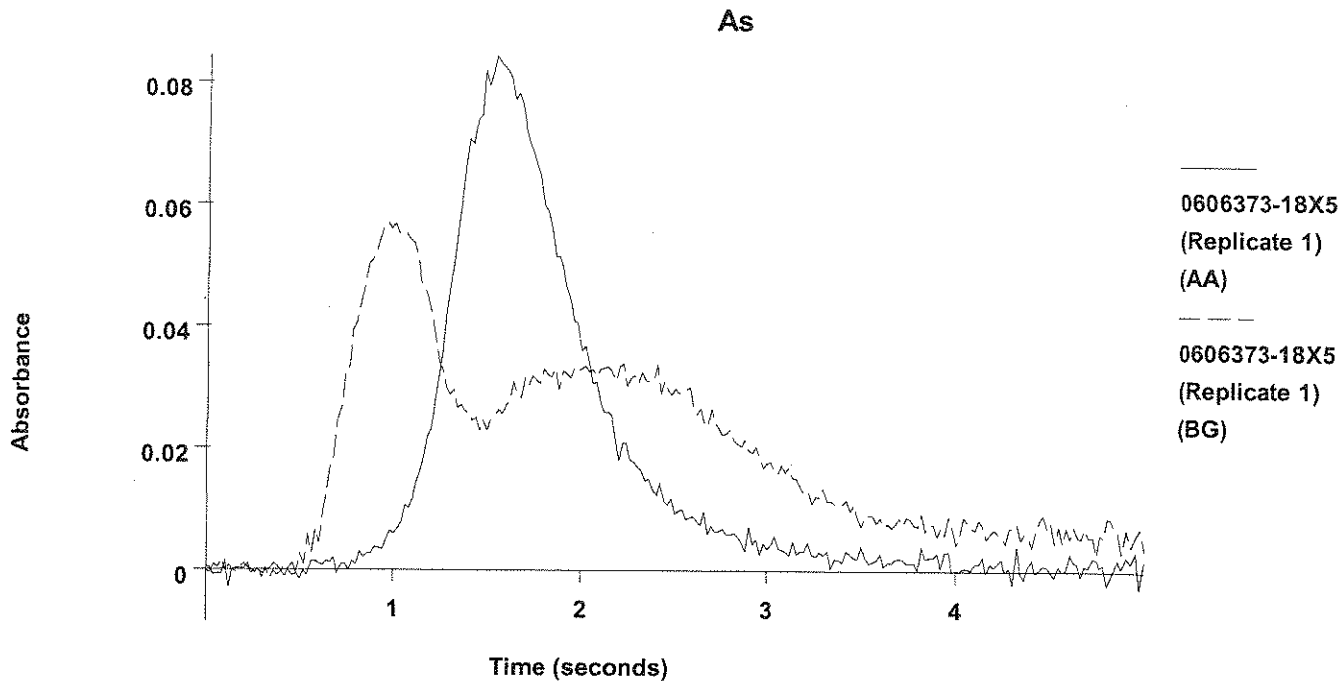




2	15.2	15.2	0.0577	0.0583	0.0793	0.0950	0.0610	04:37:20	Yes
Mean:	15.2	15.2	0.0577						
SD :	0.01	0.01	0.0000						
%RSD:	0.07	0.07	0.07						

=====  
 Element: As    Seq. No.: 257    AS Loc.: 49    Date: 06/29/2006  
 Sample ID: 0606373-18X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 49  
 =====

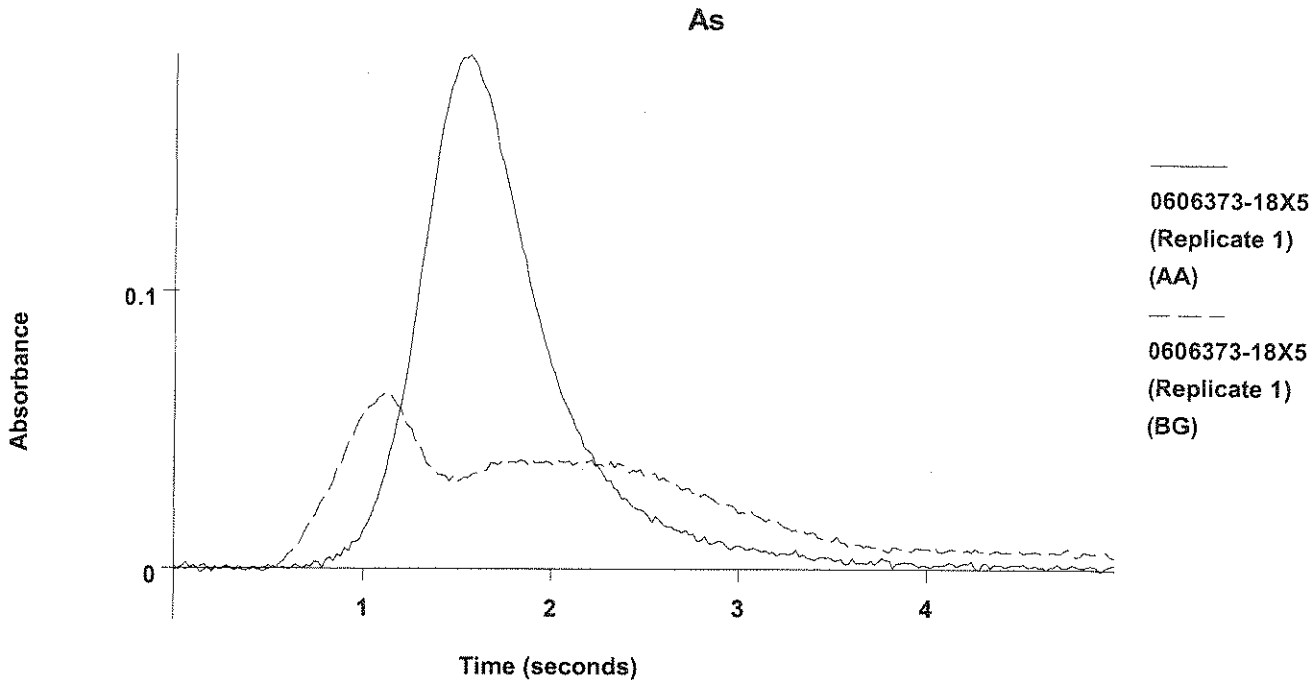
Repl #	SampleConc µg/L	StdndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	18.2	18.2	0.0690	0.0695	0.0843	0.0938	0.0569	04:40:10	Yes



2	19.0	19.0	0.0720	0.0726	0.0812	0.1150	0.0768	04:43:00	Yes
Mean:	18.6	18.6	0.0705						
SD :	0.57	0.57	0.0021						
%RSD:	3.06	3.06	3.03						

=====  
 Element: As    Seq. No.: 258    AS Loc.: 49    Date: 06/29/2006  
 Sample ID: 0606373-18X5  
 µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 49  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stor
1	39.0	39.0	0.1469	0.1475	0.1853	0.1049	0.0634	04:45:58	Yes

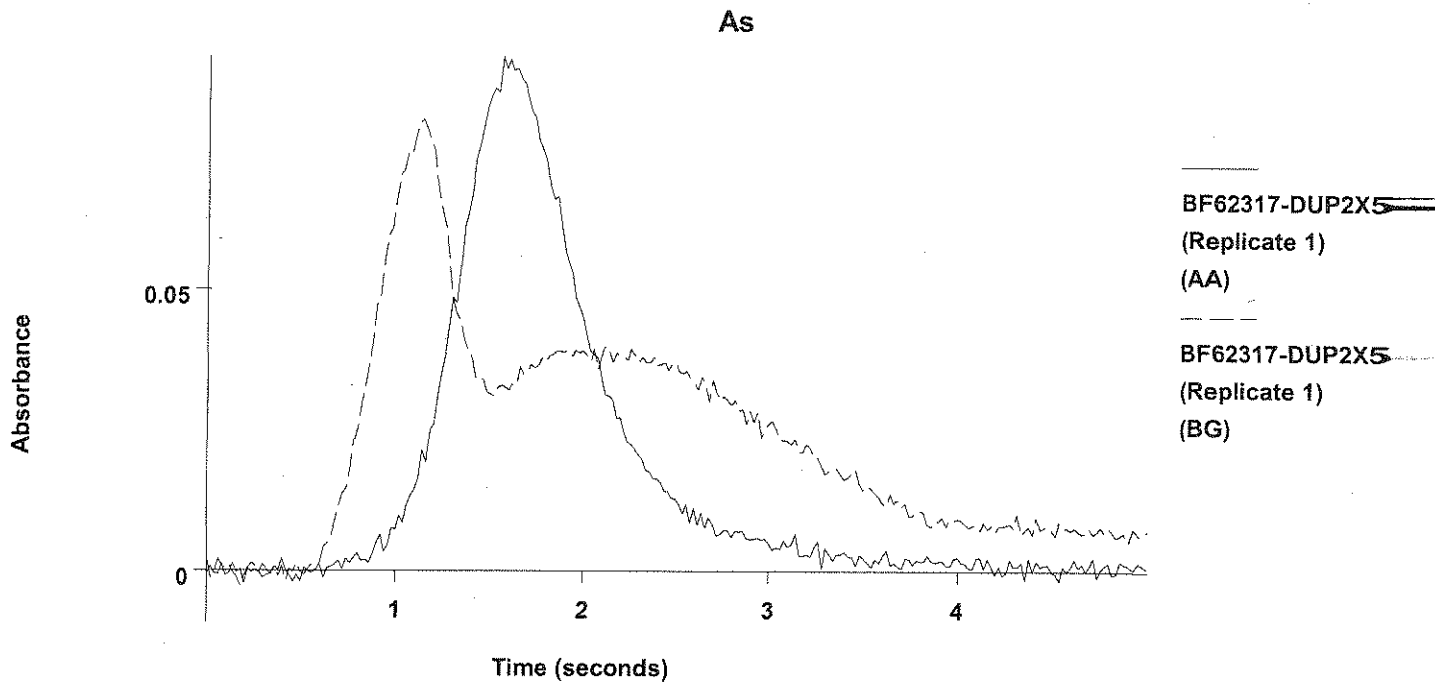


2	39.2	39.2	0.1477	0.1482	0.1780	0.1085	0.0688	04:48:56	Yes
Mean:	39.1	39.1	0.1473						
SD :	0.15	0.15	0.0006						
%RSD:	0.38	0.38	0.38						

Recovery for As = 102.4 % within 85 % to 115 % ✓

=====  
 Element: As    Seq. No.: 259    AS Loc.: 50    Date: 06/29/2006  
 Sample ID: BF62317-DUP2X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 50  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	20.5	20.5	0.0776	0.0781	0.0912	0.1159	0.0801	04:51:46	Yes

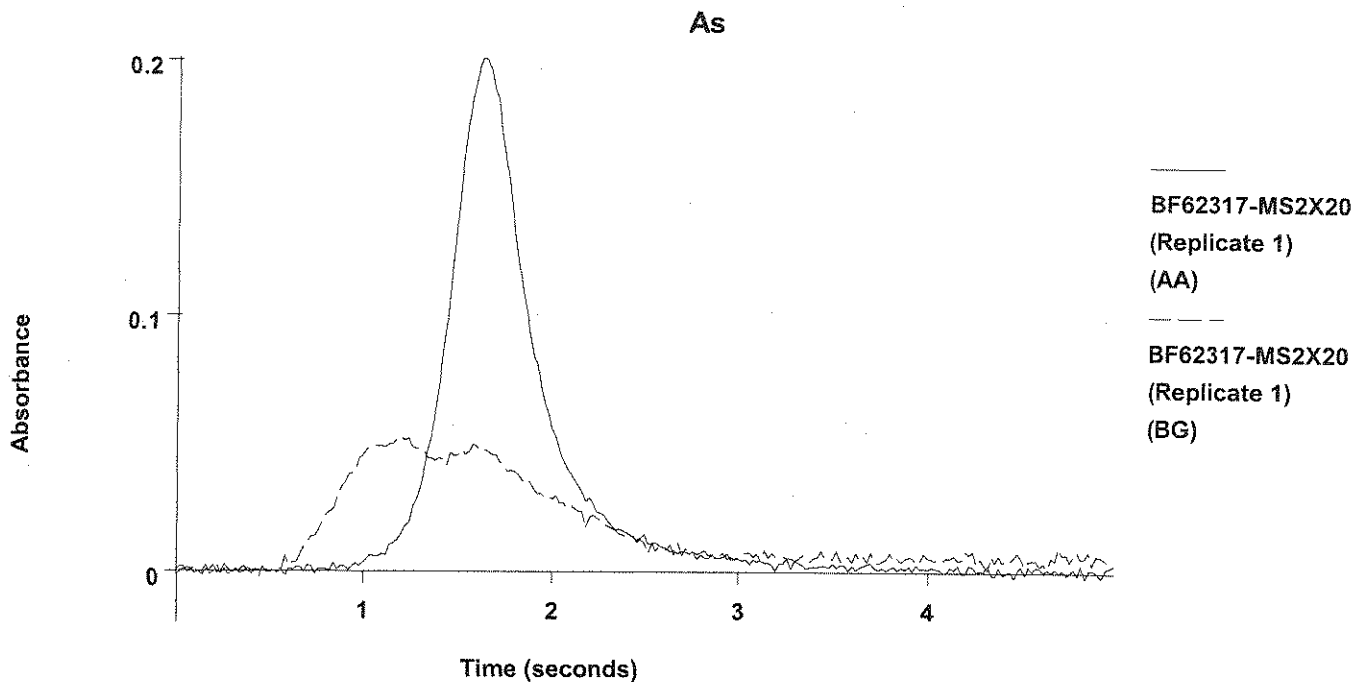


2	19.5	19.5	0.0739	0.0744	0.0891	0.1067	0.0789	04:54:36	Yes
Mean:	20.0	20.0	0.0757						
SD :	0.70	0.70	0.0026						
%RSD:	3.49	3.49	3.46						

$$\frac{20.0 - 18.6}{19.3} = 75$$

=====  
 Element: As    Seq. No.: 260    AS Loc.: 51    Date: 06/29/2006  
 Sample ID: BF62317-MS2X20  
 µL dispensed: 10 from 148, 5 from 147, 15 from 51  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1	29.3	29.3	0.1106	0.1112	0.2010	0.0778	0.0524	04:57:27	Yes



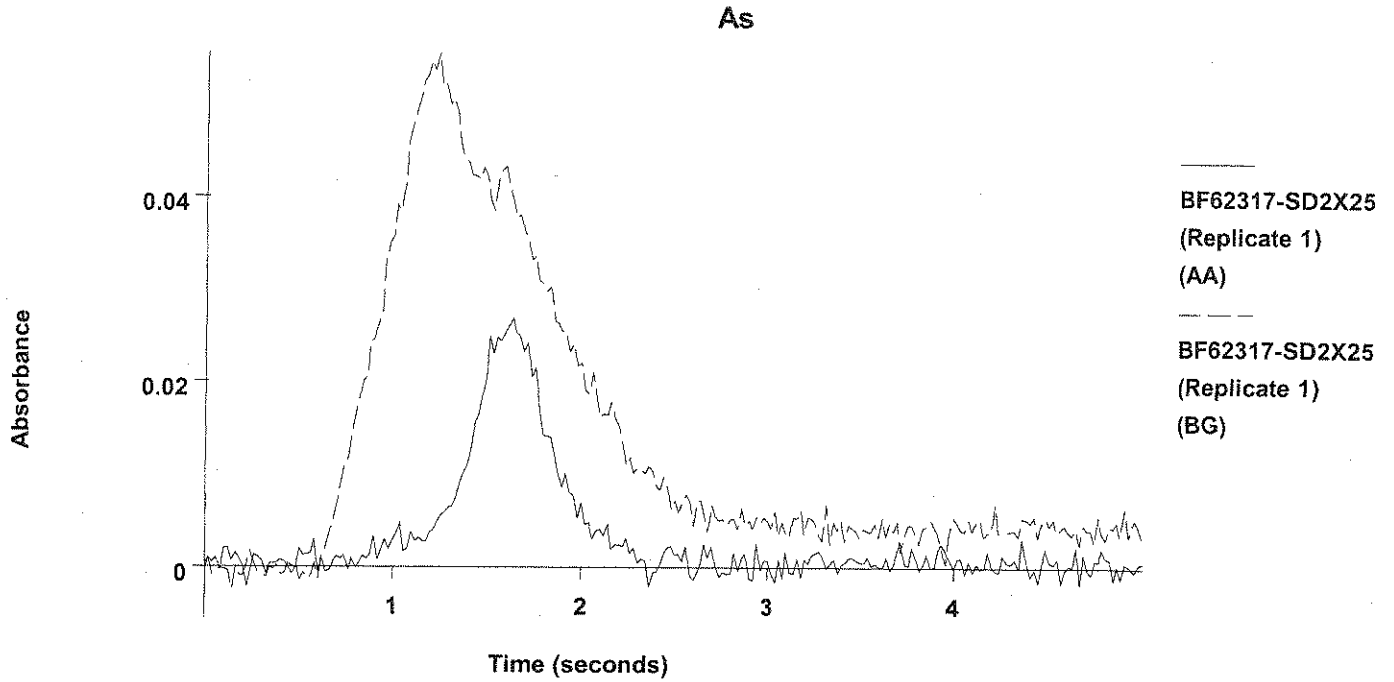
2	28.3	28.3	0.1068	0.1074	0.1966	0.0731	0.0503	05:00:17	Yes
Mean:	28.8	28.8	0.1087						
SD :	0.72	0.72	0.0027						
%RSD:	2.51	2.51	2.49						

28.8(20) - 18.6(5)

SD = 975

=====  
 Element: As    Seq. No.: 261    AS Loc.: 52    Date: 06/29/2006  
 Sample ID: BF62317-SD2X25  
 µL dispensed: 10 from 148, 5 from 147, 15 from 52  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.8	3.8	0.0150	0.0156	0.0268	0.0642	0.0555	05:03:06	Yes



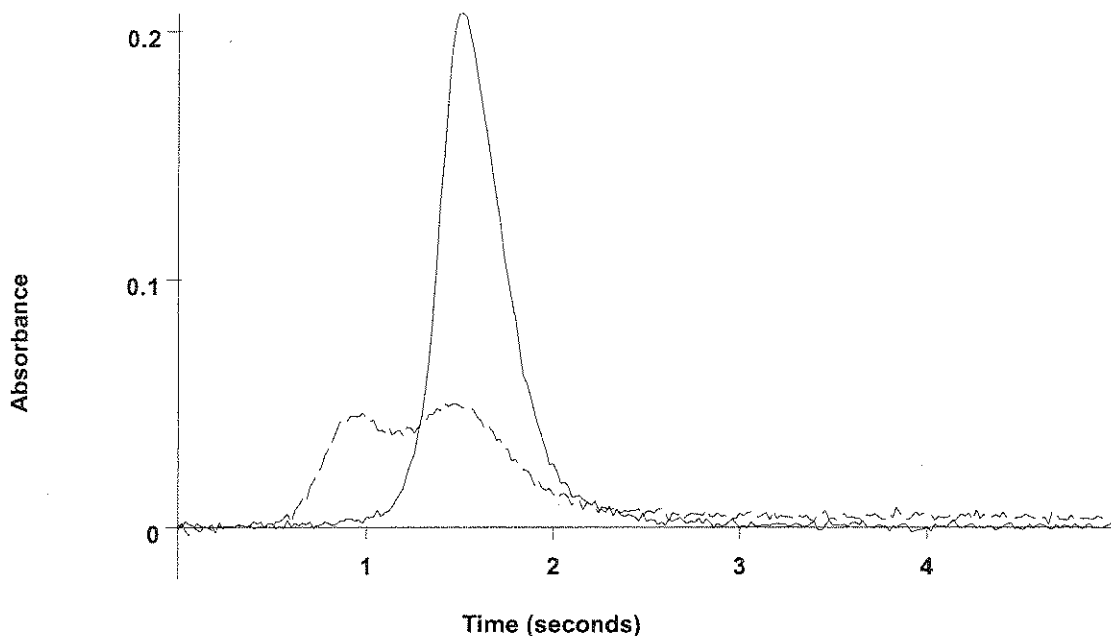
2	3.5	3.5	0.0138	0.0144	0.0259	0.0665	0.0582	05:05:57	Yes
Mean:	3.7	3.7	0.0144						
SD :	0.21	0.21	0.0008						
%RSD:	5.86	5.86	5.58						

M

=====  
 Element: As    Seq. No.: 262    AS Loc.: 126    Date: 06/29/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.8	24.8	0.0938	0.0943	0.2073	0.0646	0.0501	05:08:49	Yes

As



-----  
 CCV  
 (Replicate 1)  
 (AA)  
 -----  
 CCV  
 (Replicate 1)  
 (BG)

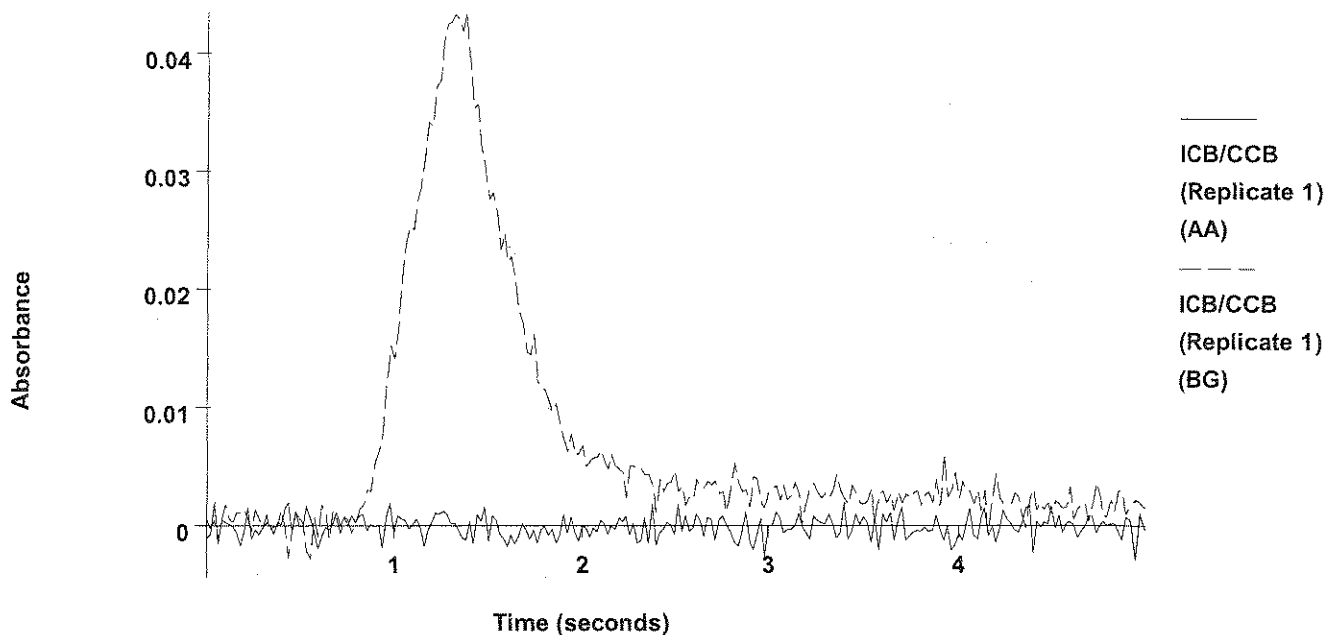
2            24.9            24.9            0.0941            0.0947            0.1837            0.0640            0.0547            05:11:43            Yes  
 Mean:        24.9            24.9            0.0939  
 SD :           0.07            0.07            0.0002  
 %RSD:        0.27            0.27            0.27  
 QC value within specified limits.



=====  
 Element: As    Seq. No.: 263            AS Loc.: 148    Date: 06/29/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0010	-0.0005	0.0020	0.0339	0.0435	05:14:33	Yes

As



2            -0.2        -0.2     -0.0001    0.0004    0.0034    0.0342    0.0467    05:17:24    Yes  
 Mean:       -0.3        -0.3     -0.0006  
 SD :         0.17        0.17     0.0006  
 %RSD:       49.6        49.6     109.89  
 QC value within specified limits.

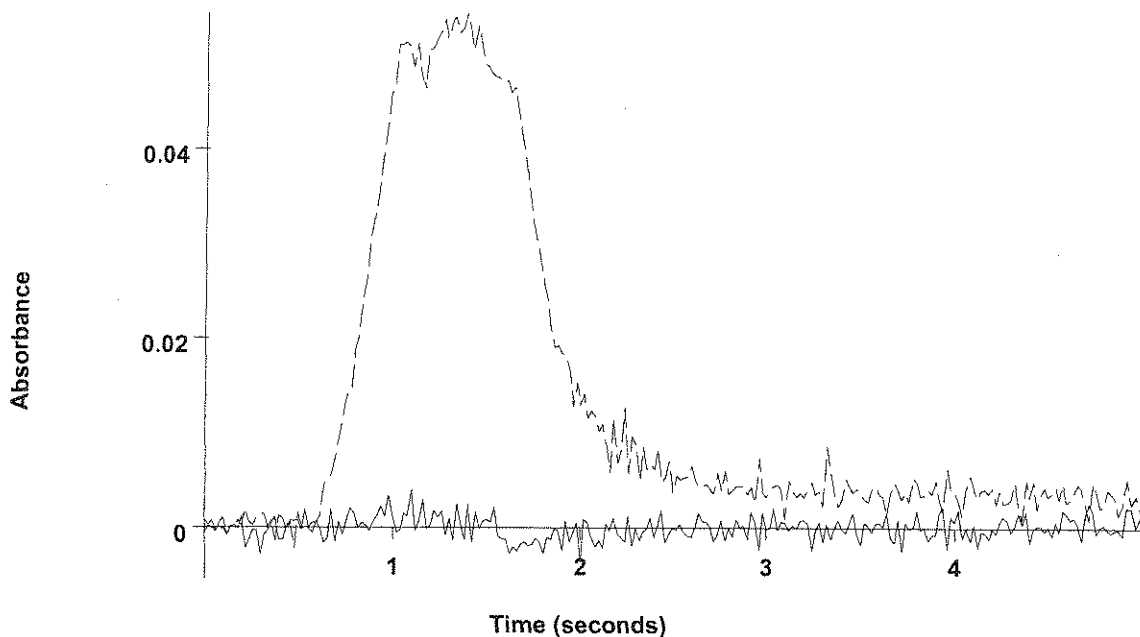


=====  
 Element: As    Seq. No.: 264    AS Loc.: 53    Date: 06/29/2006  
 Sample ID: BF62320-BLK1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 53  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0005	0.0000	0.0040	0.0639	0.0543	05:20:13	Yes



As



-----  
 BF62320-BLK1  
 (Replicate 1)  
 (AA)  
 -----  
 BF62320-BLK1  
 (Replicate 1)  
 (BG)

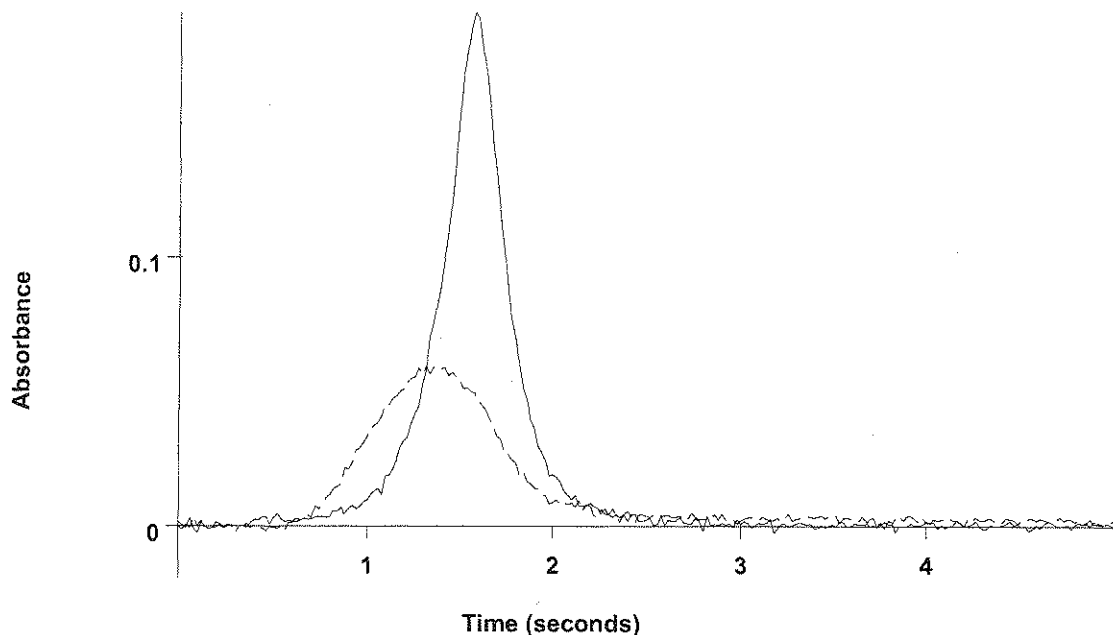
2	-0.1	-0.1	0.0004	0.0010	0.0029	0.0584	0.0522	05:23:03	Yes
Mean:	-0.2	-0.2	-0.0001						
SD :	0.18	0.18	0.0007						
%RSD:	87.6	87.6	1151.13						

*Handwritten mark resembling '07' with a checkmark.*

=====  
 Element: As    Seq. No.: 265    AS Loc.: 54    Date: 06/29/2006  
 Sample ID: BF62320-BS1X20  
 µL dispensed: 10 from 148, 5 from 147, 15 from 54  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	22.5	22.5	0.0850	0.0855	0.1910	0.0554	0.0598	05:25:52	Yes

As



BF62320-BS1X20  
 (Replicate 1)  
 (AA)  
 BF62320-BS1X20  
 (Replicate 1)  
 (BG)

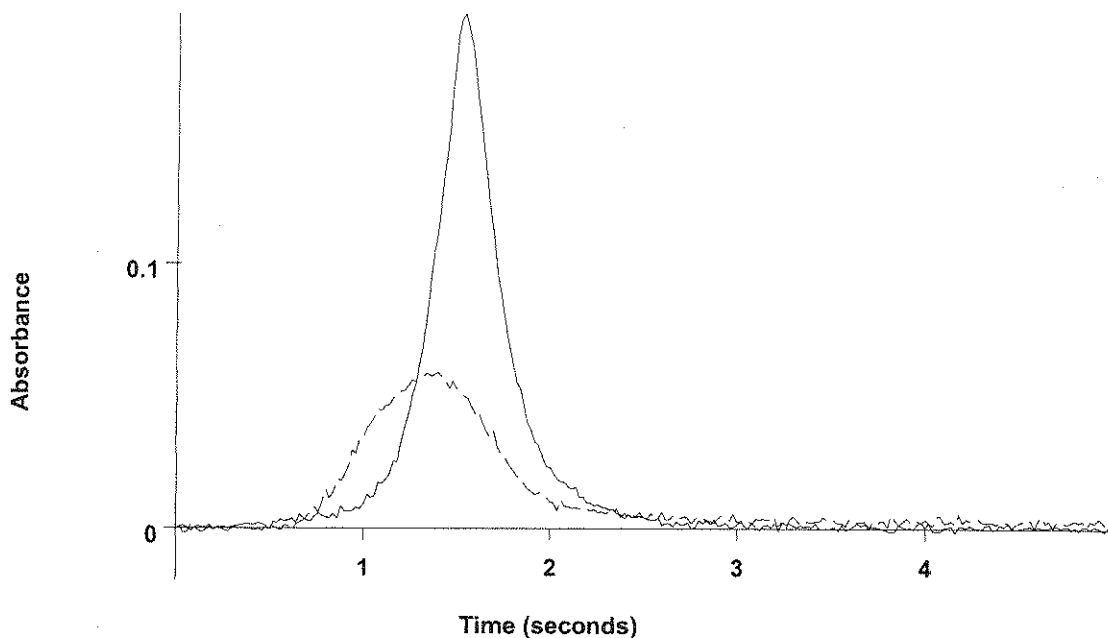
2	22.2	22.2	0.0841	0.0847	0.1979	0.0539	0.0590	05:28:42	Yes
Mean:	22.4	22.4	0.0845						
SD :	0.17	0.17	0.0006						
%RSD:	0.75	0.75	0.74						

905

=====  
 Element: As    Seq. No.: 266    AS Loc.: 55    Date: 06/29/2006  
 Sample ID: BF62320-BS1X20  
 µL dispensed: 10 from 148, 5 from 147, 15 from 55  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.8	23.8	0.0898	0.0904	0.1940	0.0563	0.0589	05:31:32	Yes

As



BF62320-BSD1X20  
(Replicate 1)  
(AA)

BF62320-BSD1X20  
(Replicate 1)  
(BG)

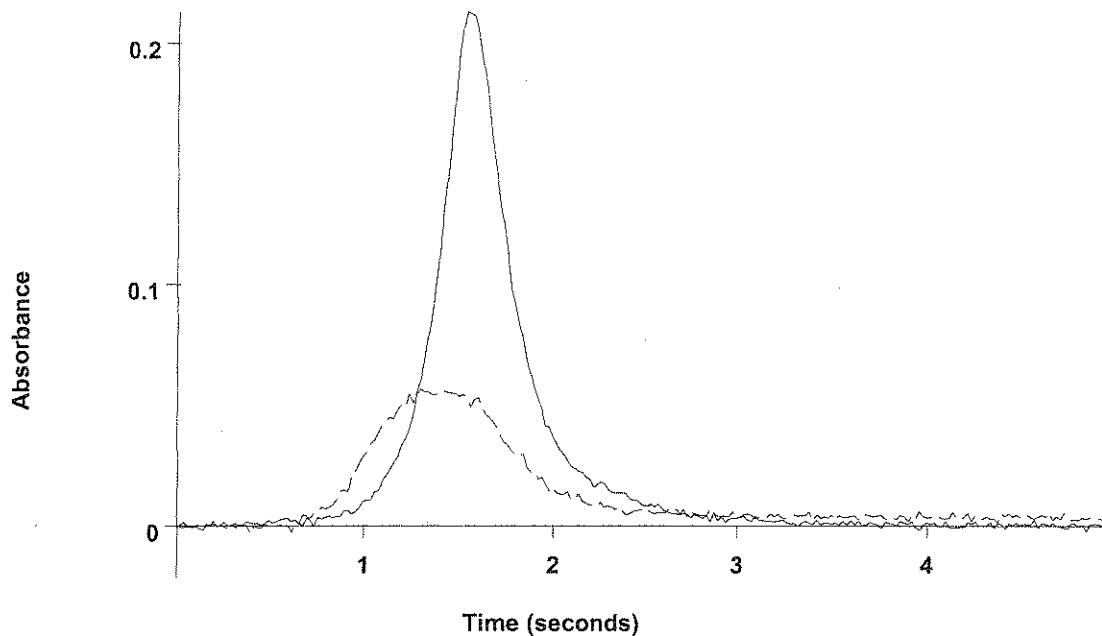
2	24.1	24.1	0.0910	0.0916	0.2087	0.0584	0.0613	05:34:21	Yes
Mean:	23.9	23.9	0.0904						
SD :	0.23	0.23	0.0009						
%RSD:	0.97	0.97	0.97						

965

=====  
 Element: As    Seq. No.: 267    AS Loc.: 56    Date: 06/29/2006  
 Sample ID: BF62320-SRM1X50  
 µL dispensed: 10 from 148, 5 from 147, 15 from 56  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	29.0	29.0	0.1093	0.1099	0.2132	0.0604	0.0567	05:37:10	Yes

As



BF62320-SRM1X50  
(Replicate 1)  
(AA)  
BF62320-SRM1X50  
(Replicate 1)  
(BG)

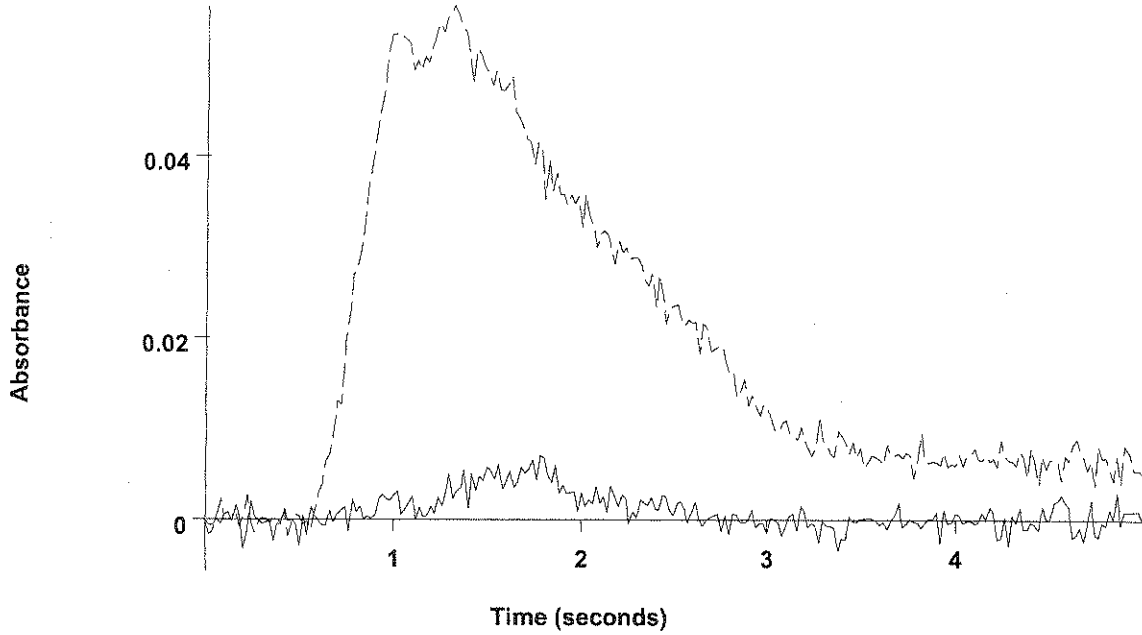
2	28.7	28.7	0.1082	0.1088	0.2167	0.0567	0.0515	05:39:59	Yes
Mean:	28.8	28.8	0.1088						
SD :	0.21	0.21	0.0008						
%RSD:	0.72	0.72	0.71						

*28.8(50)(100)*  
*1000 = 144*

=====  
Element: As    Seq. No.: 268    AS Loc.: 57    Date: 06/29/2006  
Sample ID: 0606374-01X5  
µL dispensed: 10 from 148, 5 from 147, 15 from 57  
=====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	33.7	33.7	0.1272	0.1278	0.1713	0.0874	0.0652	05:42:49	Yes

As



0606374-06X5  
(Replicate 1)  
(AA)

0606374-06X5  
(Replicate 1)  
(BG)

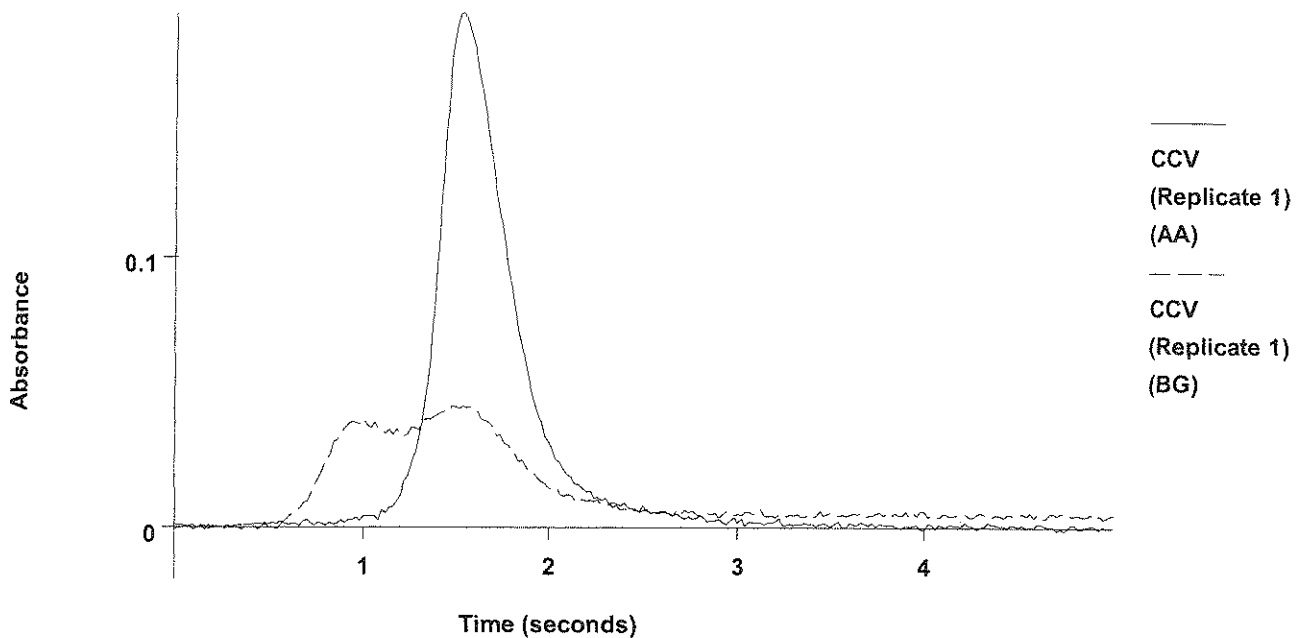
2	0.7	0.7	0.0034	0.0040	0.0063	0.0873	0.0558	06:25:12	Yes
Mean:	0.8	0.8	0.0037						
SD :	0.10	0.10	0.0004						
%RSD:	12.1	12.1	9.81						

*Handwritten mark resembling a stylized 'u' or 'd'.*

=====  
 Element: As    Seq. No.: 276    AS Loc.: 126    Date: 06/29/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.3	24.3	0.0917	0.0924	0.1903	0.0614	0.0450	06:28:05	Yes

As

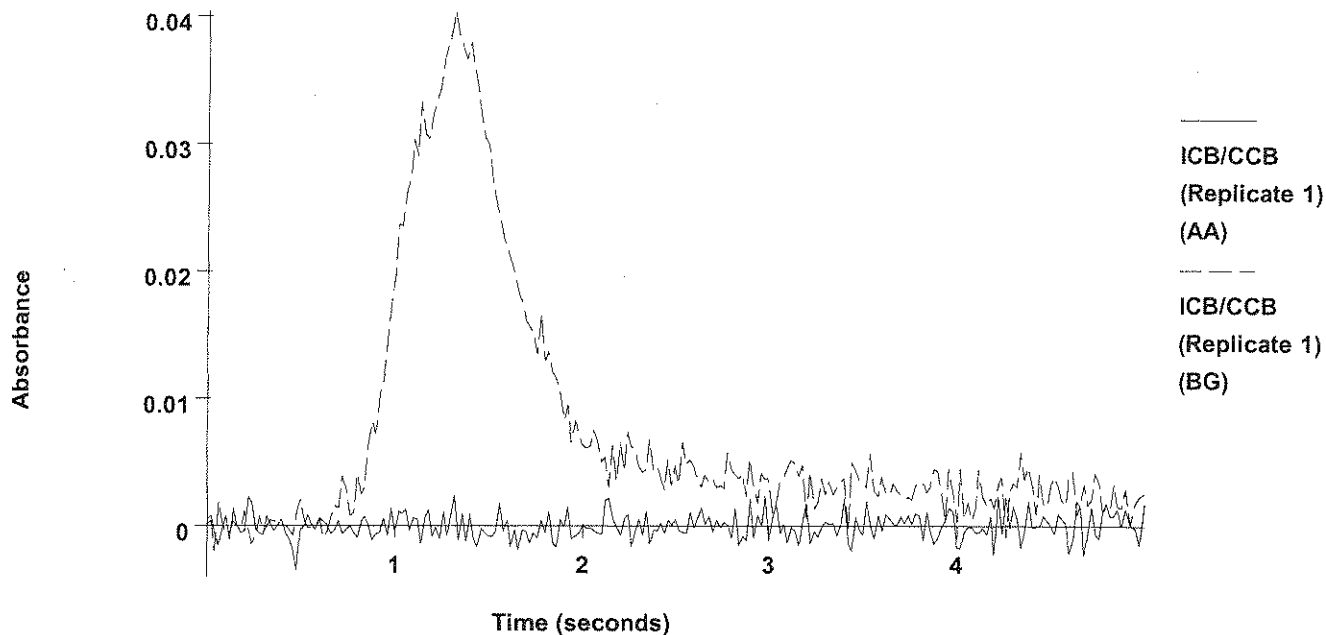


2            25.1            25.1            0.0949    0.0957    0.2106    0.0692    0.0510 06:30:57 Yes  
 Mean:       24.7            24.7            0.0933  
 SD :         0.61            0.61            0.0023  
 %RSD:       2.48            2.48            2.46  
 QC value within specified limits.

=====  
 Element: As    Seq. No.: 277    AS Loc.: 148    Date: 06/29/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0008	0.0000	0.0024	0.0364	0.0404	06:33:47	Yes

As



2	-0.5	-0.5	-0.0012	-0.0005	0.0036	0.0326	0.0421	06:36:36	Yes
Mean:	-0.5	-0.5	-0.0010						
SD :	0.08	0.08	0.0003						
%RSD:	17.7	17.7	30.28						

QC value within specified limits. ✓

=====  
 Element: As    Seq. No.: 278    AS Loc.: 63    Date: 06/29/2006  
 Sample ID: 0606374-07X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 63  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	18.0	18.0	0.0681	0.0687	0.0736	0.1282	0.0954	06:39:24	Yes

## ANALYSIS SEQUENCE

BPG0228

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0228-CAL1	QC		1		6F28044		
BPG0228-CAL2	QC		2		6F30017		
BPG0228-CAL3	QC		3		6F30018		
BPG0228-CAL4	QC		4		6F30019		
BPG0228-CAL5	QC		5		6F30020		
BPG0228-ICV1	QC		6		6F30019		
BPG0228-SCV1	QC		7		6F30021		
BPG0228-ICB1	QC		8				
BF62320-DUP5	QC		9				
BF62320-MS5	QC		10				
BF62320-PS5	QC		11				
BPG0228-CCB1	QC		12		6F28014		
BPG0228-CCV1	QC		13		6F30019		
BF62320-PS6	QC		14				
BF62320-MS6	QC		15				
BF62320-DUP6	QC		16				
0606373-20	As: ppm Arsenic 7060	F	17				MACTEC Engineering & Consulting, In
0606373-21	As: ppm Arsenic 7060	F	18				MACTEC Engineering & Consulting, In
0606374-07	As: ppm Arsenic 7060	F	19				MACTEC Engineering & Consulting, In
0606374-08	As: ppm Arsenic 7060	F	20				MACTEC Engineering & Consulting, In
0606374-09	As: ppm Arsenic 7060	F	21				MACTEC Engineering & Consulting, In
0606374-10	As: ppm Arsenic 7060	F	22				MACTEC Engineering & Consulting, In
0606374-11	As: ppm Arsenic 7060	F	23				MACTEC Engineering & Consulting, In
BPG0228-CCB2	QC		24				
BPG0228-CCV2	QC		25		6F30019		
0606374-12	As: ppm Arsenic 7060	F	26				MACTEC Engineering & Consulting, In
0606374-12RE1	As: ppm Arsenic 7060	F	27				MACTEC Engineering & Consulting, In
0606374-13	As: ppm Arsenic 7060	F	28				MACTEC Engineering & Consulting, In
0606374-14	As: ppm Arsenic 7060	F	29				MACTEC Engineering & Consulting, In
0606374-15	As: ppm Arsenic 7060	F	30				MACTEC Engineering & Consulting, In
0606374-16	As: ppm Arsenic 7060	F	31				MACTEC Engineering & Consulting, In
BPG0228-SRD1	QC		32				
BPG0228-SRD2	QC		33				



## ANALYSIS SEQUENCE

BPG0228

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BF62617-BLK3	QC		34				
BF62617-BS3	QC		35				
BPG0228-CCB3	QC		36				
BPG0228-CCV3	QC		37		6F30019		
BF62617-BSD3	QC		38				
BF62617-SRM3	QC		39				
BF62617-DUP5	QC		40				
BF62617-MS5	QC		41				
BF62617-PS5	QC		42				
BF62617-DUP6	QC		43				
BF62617-MS6	QC		44				
BF62617-PS6	QC		45				
0606383-01	As: ppm Arsenic 7060	G	46				MACTEC Engineering & Consulting, In
0606383-02	As: ppm Arsenic 7060	E	47				MACTEC Engineering & Consulting, In
BPG0228-CCB4	QC		48				
BPG0228-CCV4	QC		49		6F30019		
0606383-03	As: ppm Arsenic 7060	G	50				MACTEC Engineering & Consulting, In
0606383-04	As: ppm Arsenic 7060	E	51				MACTEC Engineering & Consulting, In
0606383-05	As: ppm Arsenic 7060	G	52				MACTEC Engineering & Consulting, In
0606383-06	As: ppm Arsenic 7060	E	53				MACTEC Engineering & Consulting, In
0606383-07	As: ppm Arsenic 7060	G	54				MACTEC Engineering & Consulting, In
0606383-07RE1	As: ppm Arsenic 7060	G	55				MACTEC Engineering & Consulting, In
0606383-08	As: ppm Arsenic 7060	E	56				MACTEC Engineering & Consulting, In
0606383-08RE1	As: ppm Arsenic 7060	E	57				MACTEC Engineering & Consulting, In
0606383-09	As: ppm Arsenic 7060	E	58				MACTEC Engineering & Consulting, In
0606383-10	As: ppm Arsenic 7060	G	59				MACTEC Engineering & Consulting, In
BPG0228-CCB5	QC		60				
BPG0228-CCV5	QC		61		6F30019		
0606383-11	As: ppm Arsenic 7060	E	62				MACTEC Engineering & Consulting, In
0606383-12	As: ppm Arsenic 7060	E	63				MACTEC Engineering & Consulting, In
0606383-12RE1	As: ppm Arsenic 7060	E	64				MACTEC Engineering & Consulting, In
0606383-13	As: ppm Arsenic 7060	E	65				MACTEC Engineering & Consulting, In
0606383-14	As: ppm Arsenic 7060	E	66				MACTEC Engineering & Consulting, In

Samples Loaded By

Date

280  
Data Processed By

Date

## ANALYSIS SEQUENCE

BPG0228

Instrument: GFAA2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0228-SRD3	QC		67				
BPG0228-SRD4	QC		68				
BPG0228-CCB6	QC		69				
BPG0228-CCV6	QC		70		6F30019		

Samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

Data Processed By \_\_\_\_\_ 290 \_\_\_\_\_ Date \_\_\_\_\_

**ESS LABORATORY**  
**GFAA Data Review Check List**

20, 21

SIF Method: <u>Pb As</u>		Run Date: <u>6/30/06</u>		
Project Number(s): <u>06375, 371, 407, 382, 374, 373, 360, 383, 405, 428, 430, 429</u>				
Batch Number (s): <u>0630064A</u>				
SOP NO. 30 2009				
Review Item	Yes (X)	No (X)	N/A (X)	
1. Does the cal curve consist of four Calibration Standards including a blank and is its correlation within QC limits ( $\geq 0.995$ )?	X			
2. Is the low calibration standard at the reporting limit?	X			
3. If the low standard is above the reporting limit, is a CRI analyzed at the beginning of the run? Does the recovery meet QC limits (80-120%)?	X			
4. Is the midpoint calibration standard reanalyzed immediately after the curve and is it within QC limits of 90-110% (+ 5% for 200.9)?	X			
5. Is the ICV from a second source and is its recovery within QC limits (90-110%)	X			
6. Is the mid-point calibration standard re-analyzed every 10 samples and at the end of the run and are its recoveries within QC limits (90-110%)?	X			
7. Is the CCB analyzed at beginning, after every 10 samples and at end of the run and are its recoveries within QC limits ( $< 2 \times \text{MDL}$ )?	X			
8. Are the method blank recoveries within QC limits?	X			
9. Are the LCS and ERA recoveries within QC limits (LCS: 80-120% for 7000, 85-115% for 200.9, ERA see COA)?		X		
10. Are matrix dups run at desired frequency (1 per 10 samples or per analytical batch) and are RPD's within QC limits ( $< 20\%$ )?	X			
11. Are matrix spikes run at desired frequency frequency (1 per 10 samples or per analytical batch) and are recoveries within QC limits (80-120%)?	X			
12. Are all samples with concentrations $>$ the highest calibration standard diluted and reanalyzed?	X			
13. Has the serial dilution been analyzed at the required frequency (once per analytical batch) and are results within criterion ( $\pm 10\% \text{RPD}$ )?	X			
14. Is the batch post digestion spike within QC limits (85-115%)?	X			
15. Are all sample hold times met?	X			
16. Are all non-conformances included and noted?	X			
17. Is the correct methodology used for sample prep and analysis?	X			
18. Are all calculations checked?	X			
19. Did analyst sign/date appropriate printouts and report sheets?	X			
20. Are all samples located in the correct auto-sampler locations?	X			

Comments on any "No" response:

PD BFL62906 - BSI, BSDI high redigest confirms hits from previous digest

AD 06374-12, 06383-07, 08, 12, 06405-03, 04 use 15X

Analyst: JP Date: 7/1/06 2<sup>nd</sup> Rvw: SW Date: 7/3/06

## Autosampler Loading List

Sample Information File: 063006YA.SIF

Methods: Pb 2 As 5

Location	Elements	Solution
1	Pb	Sample: BF62902-blk1
2	Pb	Sample: BF62902-bs1
3	Pb	Sample: BF62902-bsd1
4	Pb	Sample: <del>BF62902-blk2</del> 0606375-01
5	Pb	Sample: <del>0606375-01</del> BF62902-BLK2
6	Pb	Sample: 0606371-01
7	Pb	Sample: 0606407-01dis
8	Pb	Sample: 0606407-02dis
9	Pb	Sample: 0606407-03dis
10	Pb	Sample: 0606407-01
11	Pb	Sample: 0606407-02
12	Pb	Sample: 0606407-03
13	Pb	Sample: BF62902-dup1
14	Pb	Sample: BF62902-ms1
15	Pb	Sample: BF62902-sd1x5
16	Pb	Sample: 0606382-01
17	Pb	Sample: 0606430-02
18	Pb	Sample: BF62705-blk1
19	As	Sample: 0606374-07X5
20	As	Sample: 0606374-08X5
21	As	Sample: 0606374-09X5
22	As	Sample: 0606374-10X5
23	As	Sample: BF62320-DUP1X5
24	As	Sample: BF62320-MS1X20
25	As	Sample: BF62320-SD1X25
26	As	Sample: 0606374-11X5
27	As	Sample: 0606374-12X5
28	As	Sample: 0606374-13X5
29	As	Sample: 0606374-14X5
30	As	Sample: BF62320-DUP2X5
31	As	Sample: BF62320-MS2X20
32	As	Sample: BF62320-SD2X25
33	As	Sample: 0606374-15X5
34	As	Sample: 0606374-16X5
35	As	Sample: 0606373-20X5
36	As	Sample: 0606373-21X5
37	As	Sample: BF62713-BLK1
38	As	Sample: BF62713-BS1X20
39	As	Sample: BF62713-BSD1X20
40	As	Sample: BF62713-SRM1X50
41	As	Sample: 0606360-01X5
42	As	Sample: BF62617-BLK1
43	As	Sample: BF62617-BS1X20
44	As	Sample: BF62617-BSD1X20
45	As	Sample: BF62617-SRM1X50
46	As	Sample: 0606383-01X5
47	As	Sample: 0606383-02X5
48	As	Sample: 0606383-03X5
49	As	Sample: 0606383-04X5
50	As	Sample: 0606383-05X5
51	As	Sample: 0606383-06X5
52	As	Sample: 0606383-07X5
53	As	Sample: 0606383-08X5
54	As	Sample: 0606383-09X5
55	As	Sample: 0606383-10X5
56	As	Sample: 0606383-11X5
57	As	Sample: BF62617-DUP1X5
58	As	Sample: BF62617-MS1X20
59	As	Sample: BF62617-SD1X25
60	As	Sample: <del>202</del> 0606383-12X5
61	As	Sample: 0606383-13X5

62	As	Sample: BF62617-DUP2X5
63	As	Sample: BF62617-MS2X20
64	As	Sample: BF62617-SD2X25
65	As	Sample: 0606383-14X5
66	As	Sample: 0606405-01X5
67	As	Sample: 0606405-02X5
68	As	Sample: 0606405-03X5
69	As	Sample: 0606405-04X5
70	As	Sample: BF62705-BLK1
71	As	Sample: BF62705-BS2
72	As	Sample: BF62705-BSD2
73	As	Sample: 0606428-01
74	As	Sample: 0606430-01
75	As	Sample: 0606430-02
76	As	Sample: BF62705-BLK2
77	As	Sample: 0606429-01DIS
78	As	Sample: 0606429-02DIS
79	As	Sample: 0606429-03DIS
80	As	Sample: 0606429-04DIS
81	As	Sample: 0606429-05DIS
82	As	Sample: 0606430-01DIS
83	As	Sample: 0606430-02DIS
84	As	Sample: BF62705-DUP2
85	As	Sample: BF62705-MS4
86	As	Sample: BF62705-SD2X5
87	Pb	Sample: 0606386-16dir
121	Pb,As	Stock Standard: 5.0 µg/L
124	Pb,As	Stock Standard: 10.0 µg/L
126	Pb,As	Stock Standard: 25.0 µg/L
	Pb,As	STD 3: 25.0000 µg/L
	Pb,As	CCV: 25.0000 µg/L
129	Pb,As	Stock Standard: 50.0 µg/L
131	Pb,As	Recovery Stock: 50.0 µg/L
134	Pb,As	ICV: 25.0000 µg/L
136	Pb,As	CRA 2: 2.0000 µg/L
141	Pb	Standard 0
	Pb	ICB/CCB: 0.0000 µg/L
	Pb	Diluent
146	Pb	Modifier 2
147	As	Modifier 1
148	As	Standard 0
	As	ICB/CCB: 0.0000 µg/L
	As	Diluent

```

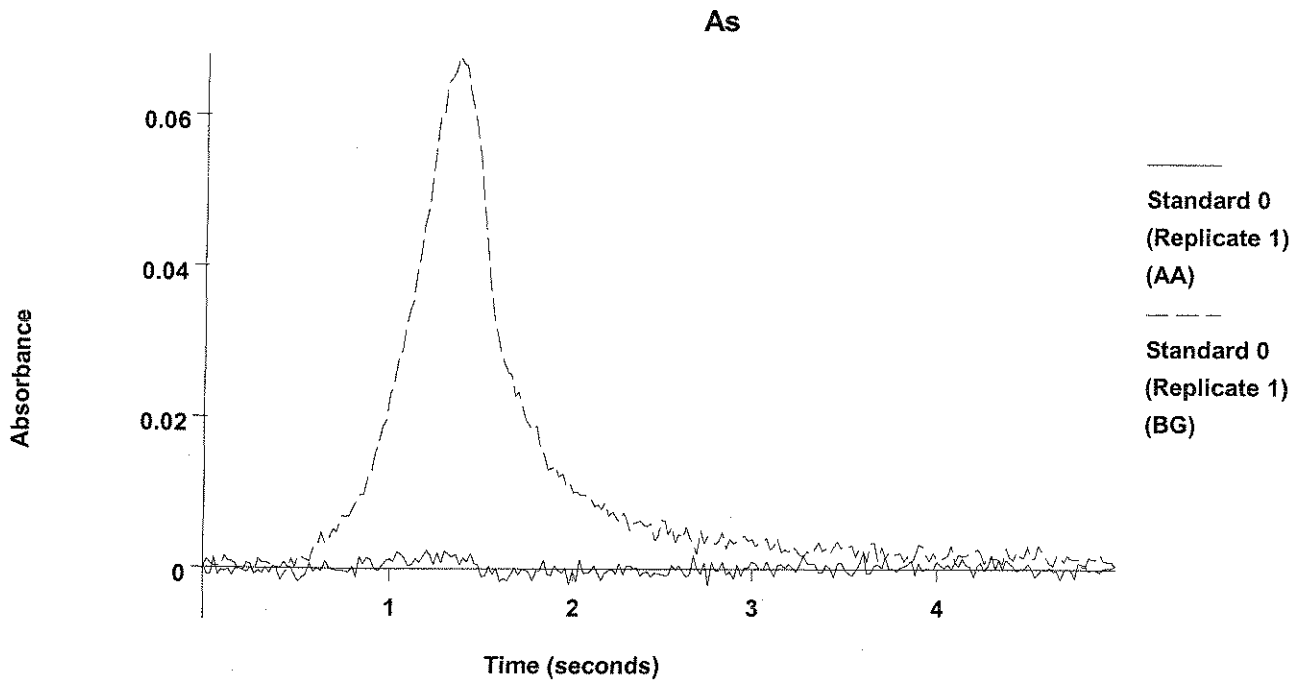
=====
Method Name: As 5
Method Description: As
Element: As

Date: 06/30/2006
Technique:Furnace
Calibration Type:
As, Calc. Intercept : Linear
Wavelength: 193.7 nm
Energy: 100
Slit Width: 0.7
Lamp Current: 350mA
Sample Info Name: 063006YA.SIF           Results Data Set Name: 063006yad
    
```

```

=====
Element: As      Seq. No.: 39          AS Loc.: 148      Date: 06/30/2006
Sample ID: Standard 0
µL dispensed: 10 from 148, 5 from 147, 15 from 148
    
```

Repl #	SampleConc	StndConc	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0006	0.0006	0.0024	0.0500	0.0680	01:33:44	Yes



2			0.0010	0.0010	0.0024	0.0417	0.0710	01:36:33	Yes
Mean:			0.0008						
SD :			0.0003						
%RSD:			36.52						

Auto-zero performed.

```

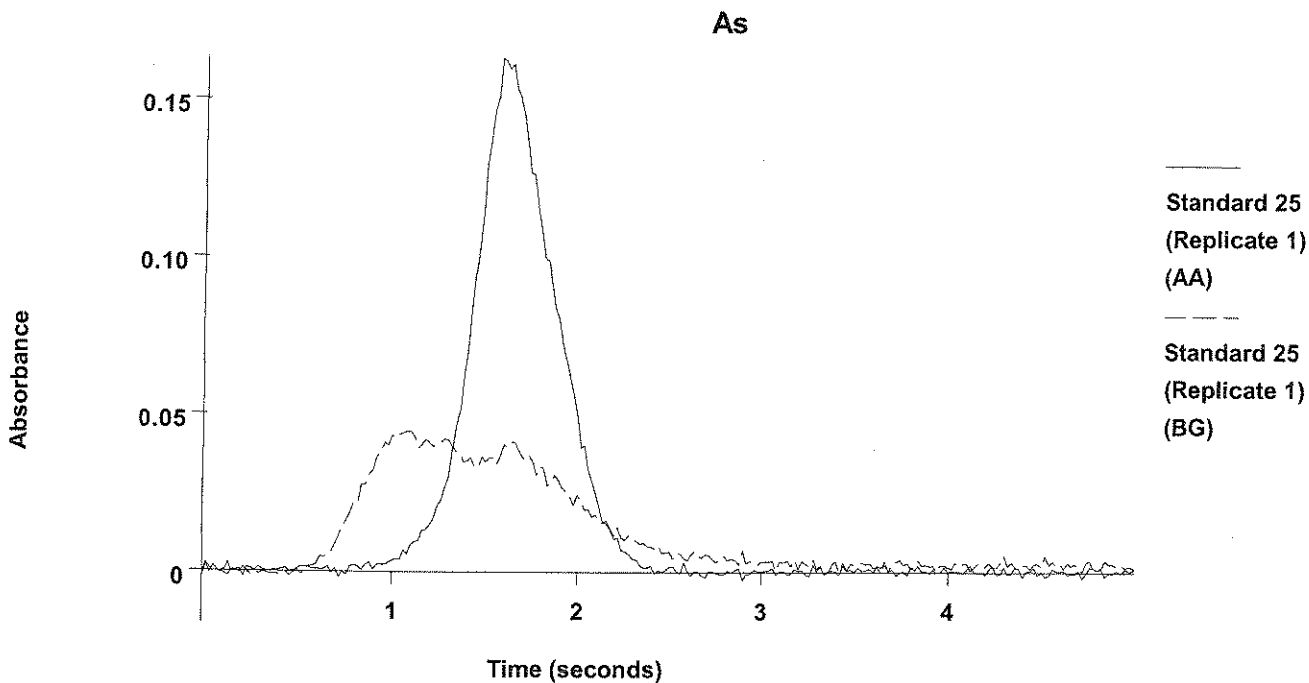
=====
Element: As      Seq. No.: 40          AS Loc.: 121      Date: 06/30/2006
Sample ID: Standard 5
µL dispensed: 10 from 148, 5 from 147, 15 from 121
    
```

Repl #	SampleConc	StndConc	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0173	0.0181	0.0415	0.0496	0.0508	01:39:48	Yes





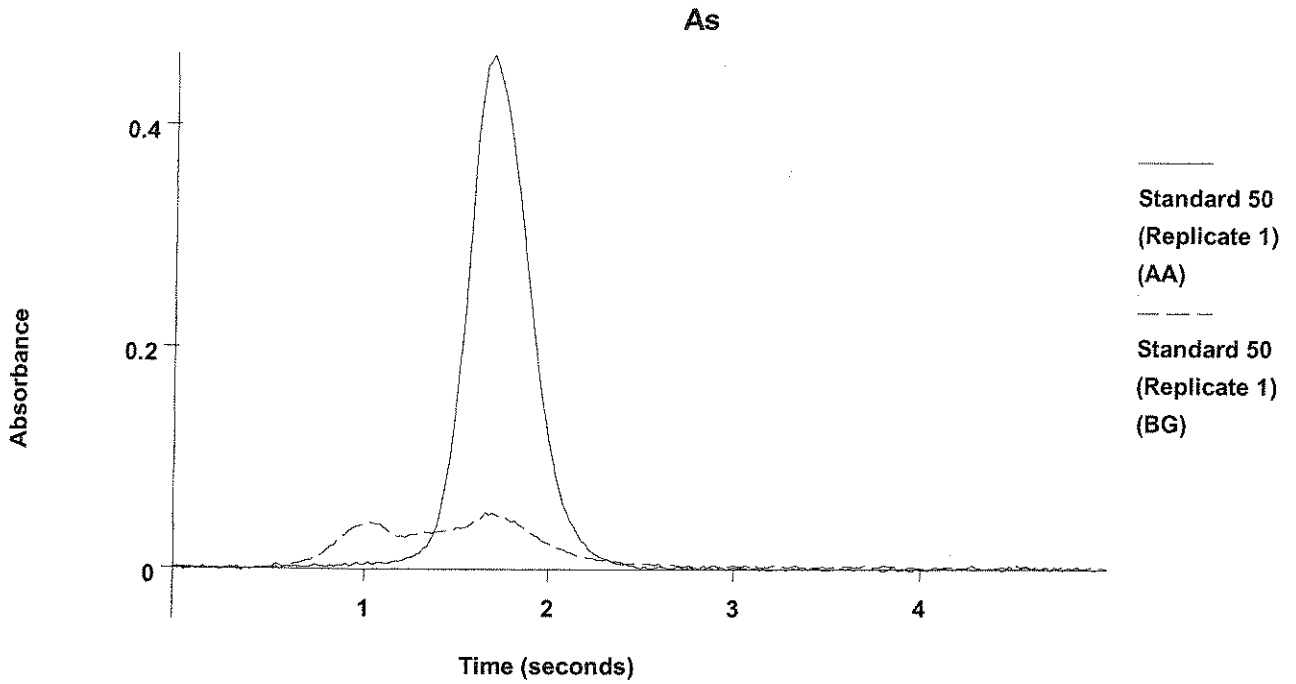




2  
 Mean: 0.0869 0.0877 0.1649 0.0613 0.0510 01:55:03 Yes  
 SD : 0.0859  
 %RSD: 0.0014  
 1.63  
 [As] Standard number 3 applied. [25.0]  
 Correlation Coefficient: 1.00000 Slope: 0.00344  
 Intercept : -0.00012

=====  
 Element: As Seq. No.: 43 AS Loc.: 129 Date: 06/30/2006  
 Sample ID: Standard 50  
 µL dispensed: 10 from 148, 5 from 147, 15 from 129  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.1920	0.1928	0.4643	0.0565	0.0511	01:58:20	Yes

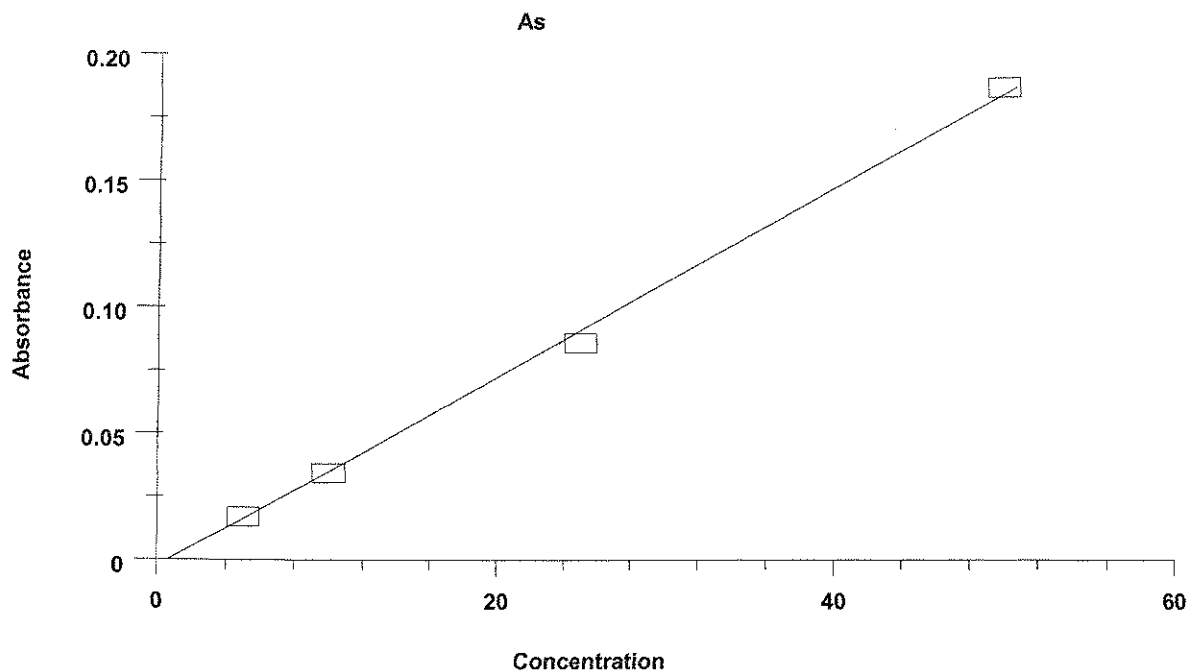


2  
 Mean: 0.1819 0.1827 0.4463 0.0523 0.0472 02:01:10 Yes  
 SD : 0.1870  
 %RSD: 0.0071  
 [As] Standard number 4 applied. [50.0]  
 Correlation Coefficient: 0.99914 Slope: 0.00374  
 Intercept : -0.00243

-----  
 Calibration data for As

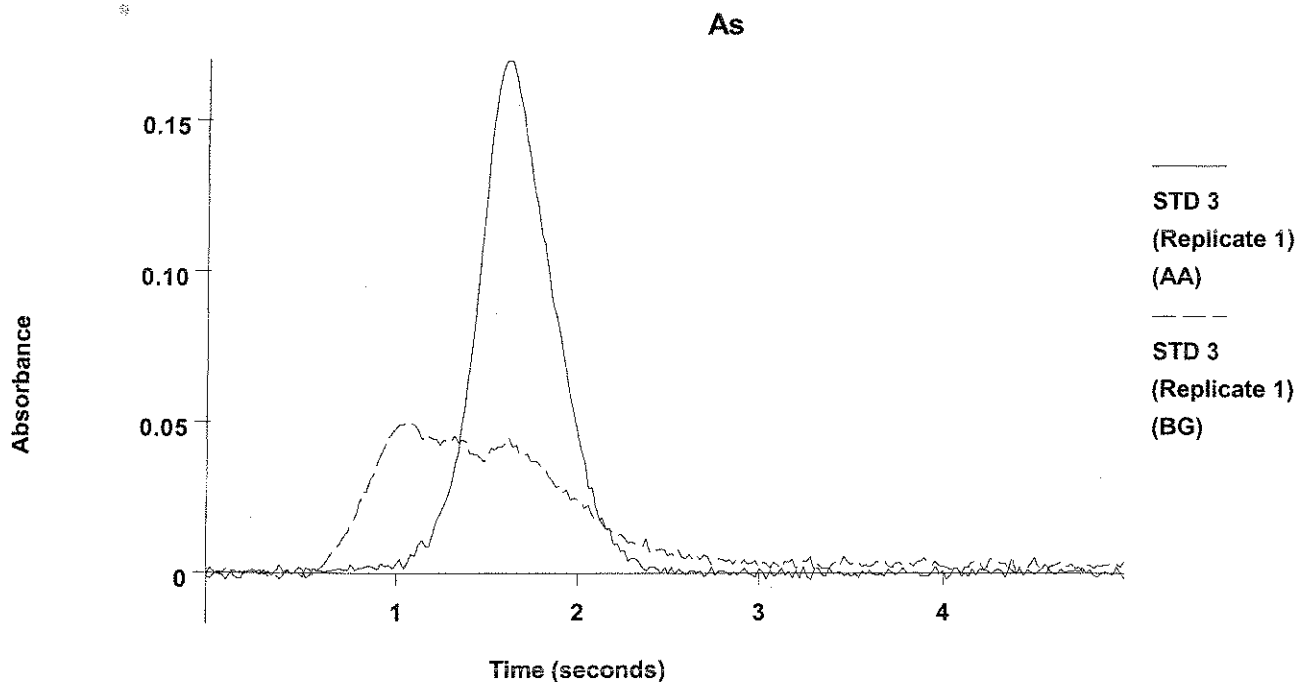
Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	0.0008	-	----	----	----
Standard 5	0.0169	5.0	5.2	0.00	3.01
Standard 10	0.0343	10.0	9.8	0.00	1.86
Standard 25	0.0859	25.0	23.6	0.00	1.63
Standard 50	0.1870	50.0	50.7	0.01	3.82
Correlation Coefficient: 0.99914		Slope:	0.00374	Intercept:	-0.0024

-----



=====  
 Element: As    Seq. No.: 44    AS Loc.: 126    Date: 06/30/2006  
 Sample ID: STD 3  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	Sample Conc µg/L	Stnd Conc µg/L	Blk Corr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.5	23.5	0.0855	0.0863	0.1701	0.0640	0.0506	02:04:07	Yes



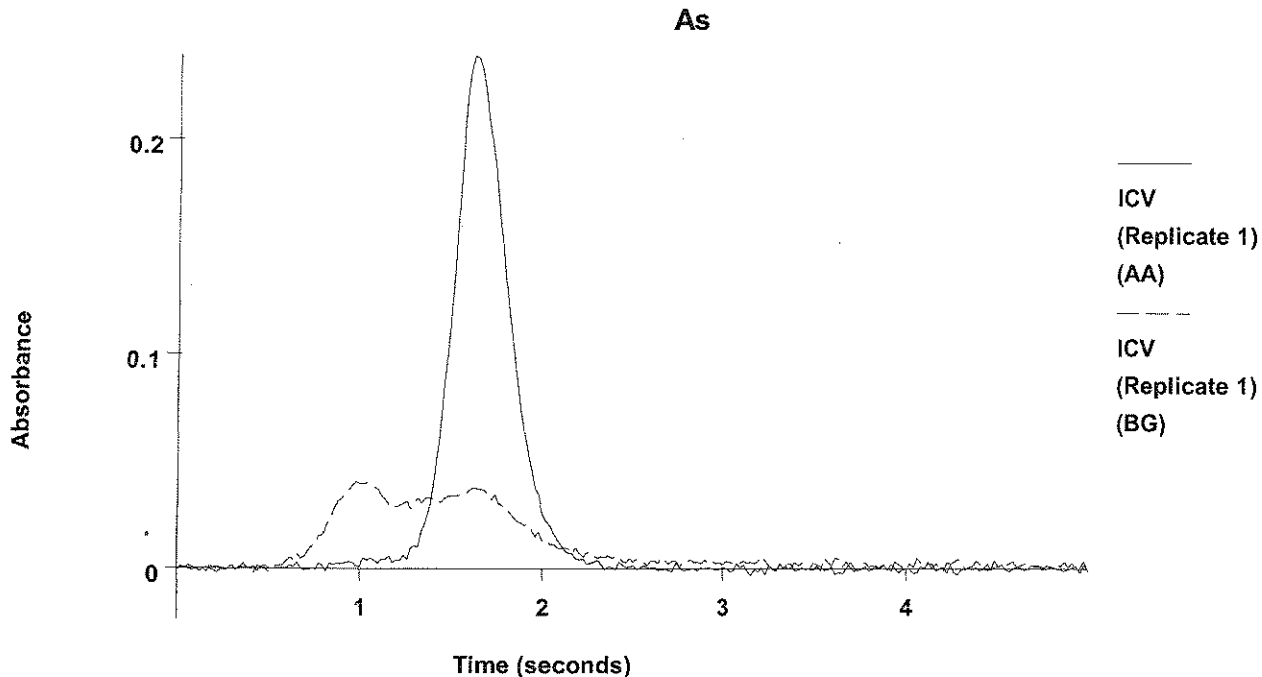
2	23.7	23.7	0.0861	0.0869	0.1642	0.0665	0.0533	02:06:59	Yes
---	------	------	--------	--------	--------	--------	--------	----------	-----

Mean: 23.6 23.6 0.0858  
 SD : 0.10 0.10 0.0004  
 %RSD: 0.44 0.44 0.45 ✓

QC value within specified limits.

=====  
 Element: As Seq. No.: 45 AS Loc.: 134 Date: 06/30/2006  
 Sample ID: ICV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 134  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.9	23.9	0.0867	0.0875	0.2390	0.0477	0.0406	02:09:50	Yes

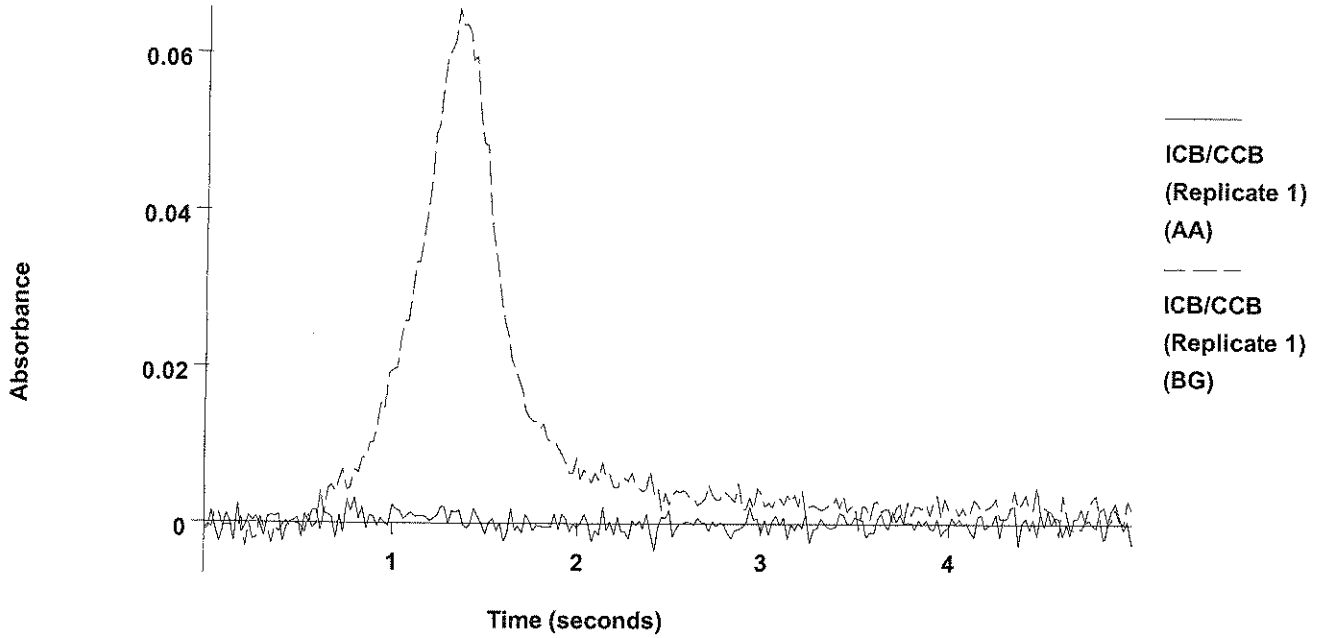


2 24.1 24.1 0.0877 0.0885 0.2135 0.0594 0.0491 02:12:39 Yes  
 Mean: 24.0 24.0 0.0872  
 SD : 0.19 0.19 0.0007  
 %RSD: 0.77 0.77 0.80 ✓  
 QC value within specified limits.

=====  
 Element: As Seq. No.: 46 AS Loc.: 148 Date: 06/30/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 -----

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	-0.0001	0.0006	0.0032	0.0433	0.0657	02:15:28	Yes

As

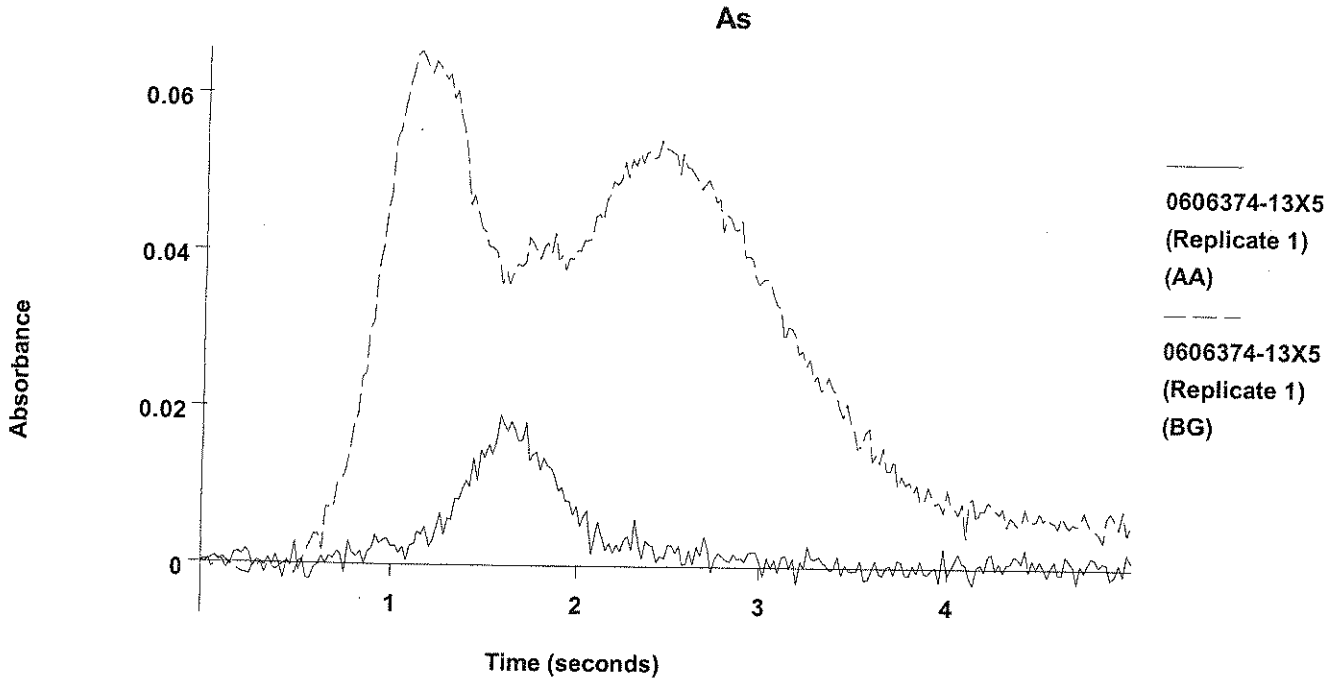


2	0.8	0.8	0.0004	0.0012	0.0042	0.0408	0.0678	02:18:17	Yes
Mean:	0.7	0.7	0.0001						
SD :	0.10	0.10	0.0004						
%RSD:	15.2	15.2	264.01	✓					

QC value within specified limits.

=====  
 Element: As    Seq. No.: 47    AS Loc.: 19    Date: 06/30/2006  
 Sample ID: 0606374-07X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 19  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	17.7	17.7	0.0637	0.0644	0.1089	0.1059	0.0581	02:21:07	Yes

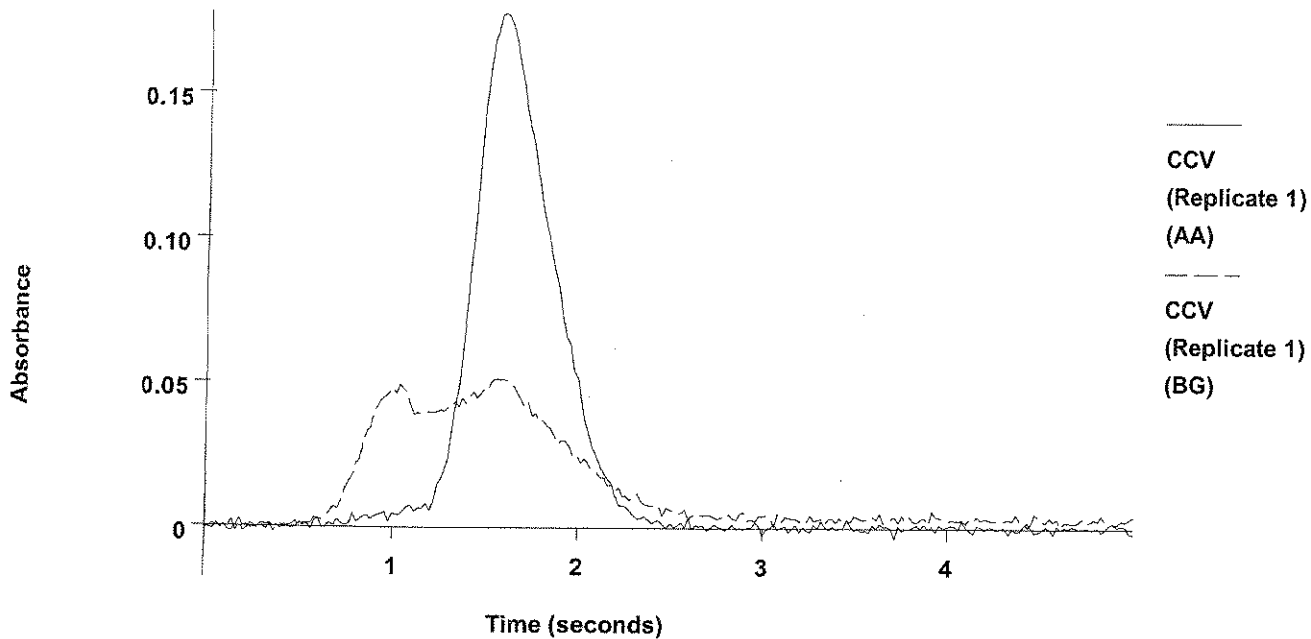


2	3.9	3.9	0.0121	0.0128	0.0171	0.1315	0.0747	03:32:16	Yes
Mean:	4.0	4.0	0.0124						
SD :	0.15	0.15	0.0005						
%RSD:	3.70	3.70	4.42						

=====  
 Element: As    Seq. No.: 60    AS Loc.: 126    Date: 06/30/2006  
 Sample ID: CCV  
 µL dispensed: 10 from 148, 5 from 147, 15 from 126  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.4	24.4	0.0889	0.0908	0.1779	0.0661	0.0515	03:35:07	Yes

As

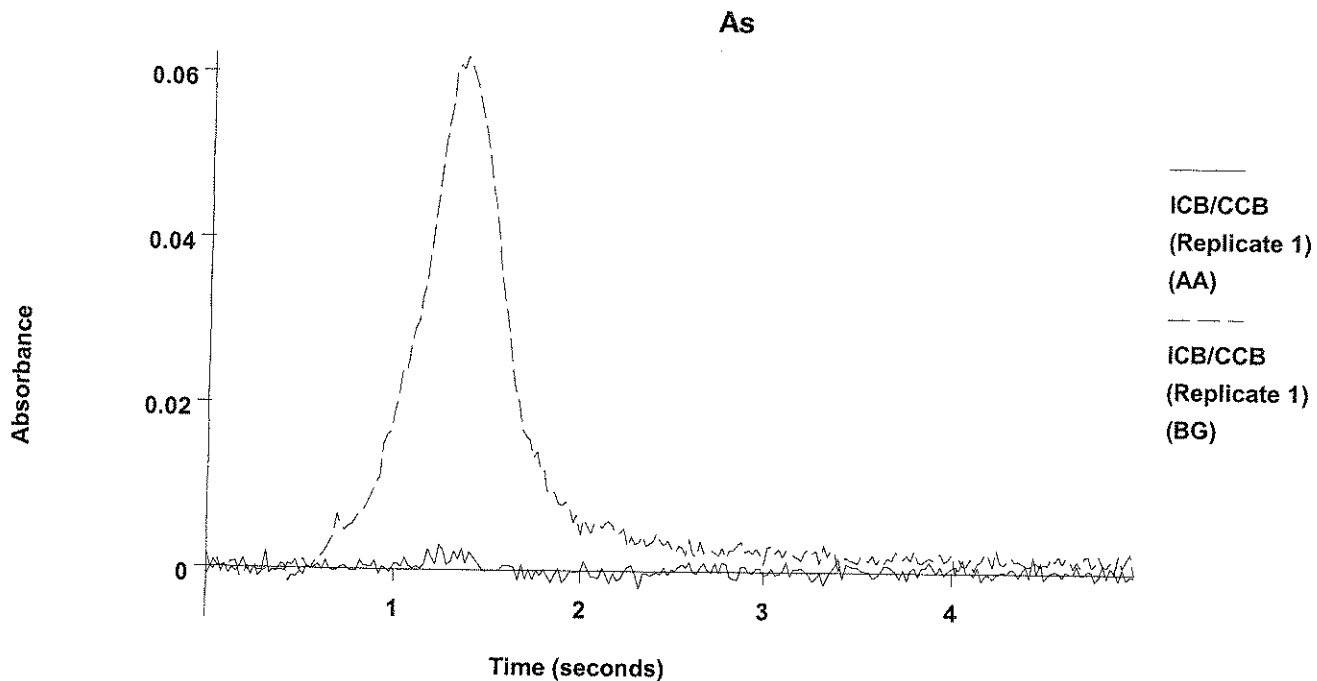


2	23.8	23.8	0.0864	0.0882	0.1689	0.0724	0.0525	03:38:00	Yes
Mean:	24.1	24.1	0.0876						
SD :	0.48	0.48	0.0018						
%RSD:	1.98	1.98	2.03						

QC value within specified limits. ✓

=====  
 Element: As    Seq. No.: 61    AS Loc.: 148    Date: 06/30/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	-0.0010	0.0008	0.0030	0.0414	0.0622	03:40:51	Yes



2	0.6	0.6	-0.0001	0.0018	0.0046	0.0451	0.0671	03:43:40	Yes
Mean:	0.5	0.5	-0.0006						
SD :	0.18	0.18	0.0007						
%RSD:	36.2	36.2	123.57						

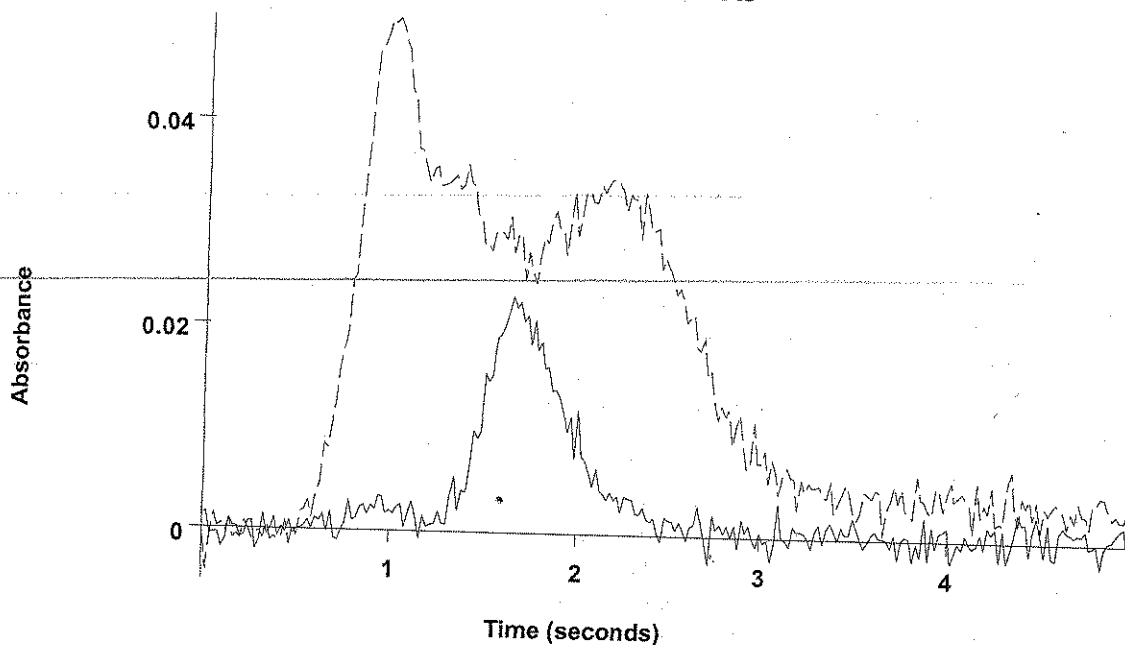
QC value within specified limits. ✓

=====  
 Element: As    Seq. No.: 62    AS Loc.: 29    Date: 06/30/2006  
 Sample ID: 0606374-14X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 29  
 =====

Repl #	Sample Conc µg/L	Stnd Conc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.8	2.8	0.0081	0.0088	0.0163	0.0815	0.0493	03:46:29	Yes



As



0606374-16X5  
(Replicate 1)  
(AA)

0606374-16X5  
(Replicate 1)  
(BG)

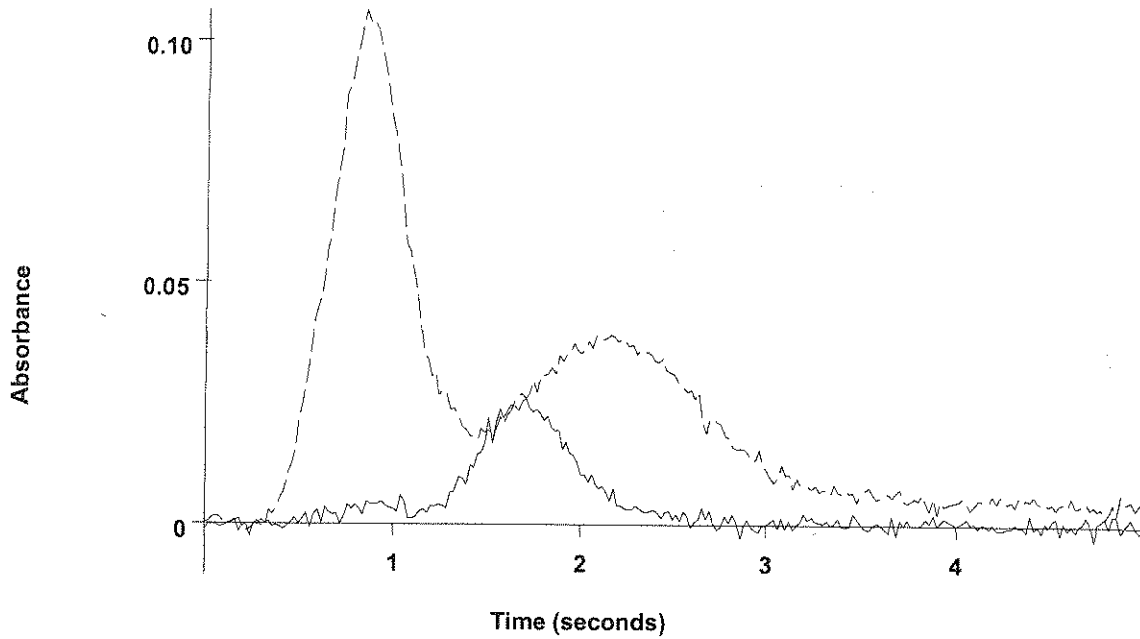
2	4.0	4.0	0.0125	0.0132	0.0251	0.0829	0.0480	04:23:33	Yes
Mean:	4.0	4.0	0.0125						
SD :	0.01	0.01	0.0001						
%RSD:	0.35	0.35	0.42						

*W*

=====  
 Element: As    Seq. No.: 69    AS Loc.: 35    Date: 06/30/2006  
 Sample ID: 0606373-20X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 35  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	5.3	5.3	0.0176	0.0183	0.0260	0.1102	0.1064	04:26:23	Yes

As



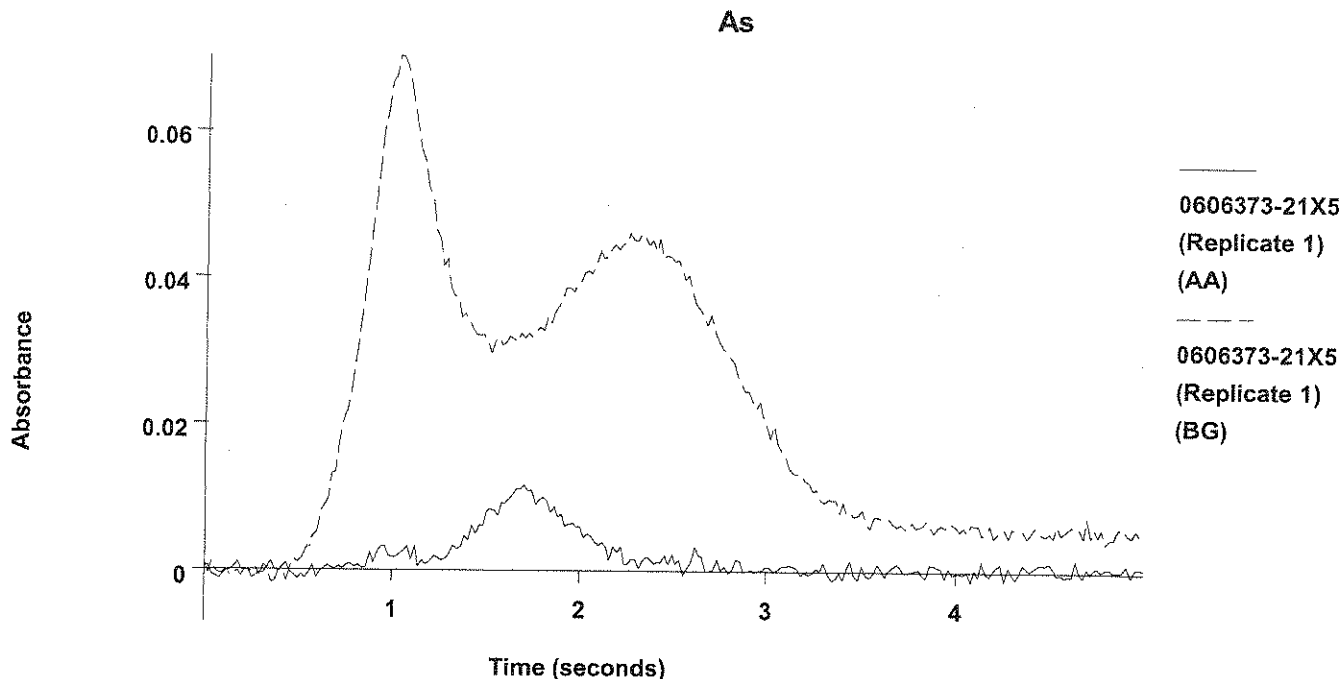
0606373-20X5  
(Replicate 1)  
(AA)

0606373-20X5  
(Replicate 1)  
(BG)

2	5.4	5.4	0.0176	0.0184	0.0269	0.1047	0.0706	04:29:14	Yes
Mean:	5.4	5.4	0.0176						
SD :	0.02	0.02	0.0001						
%RSD:	0.31	0.31	0.35						

=====  
 Element: As    Seq. No.: 70    AS Loc.: 36    Date: 06/30/2006  
 Sample ID: 0606373-21X5  
 µL dispensed: 10 from 148, 5 from 147, 15 from 36  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.6	2.6	0.0074	0.0081	0.0116	0.1061	0.0702	04:32:04	Yes



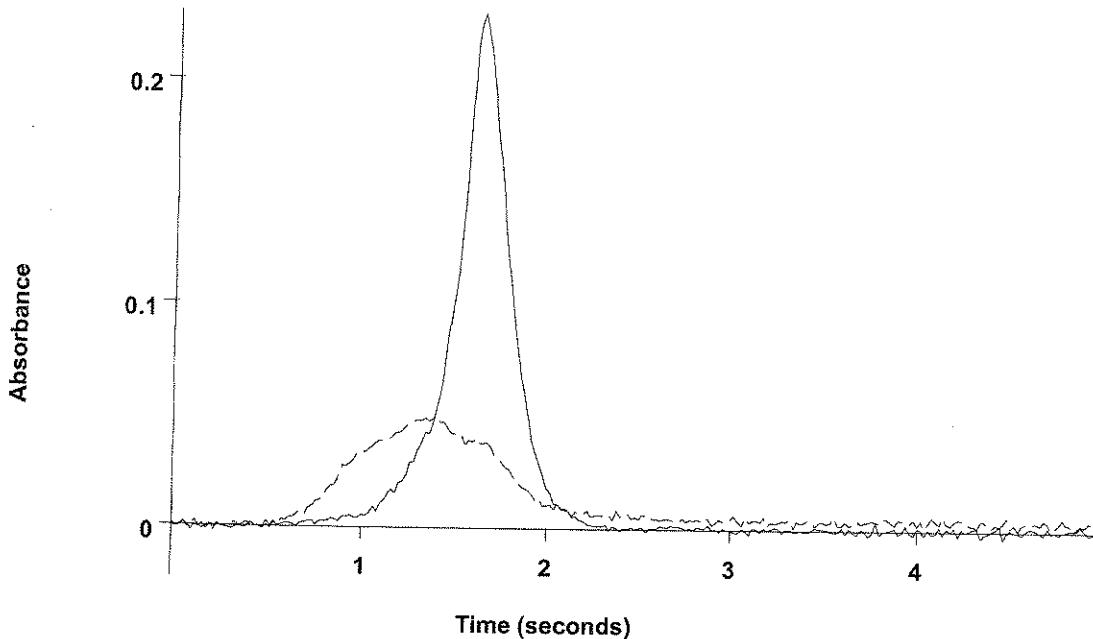
2	2.7	2.7	0.0076	0.0083	0.0118	0.1020	0.0648	04:34:54	Yes
Mean:	2.6	2.6	0.0075						
SD :	0.04	0.04	0.0002						
%RSD:	1.58	1.58	2.10						

W

=====  
 Element: As    Seq. No.: 71    AS Loc.: 37    Date: 06/30/2006  
 Sample ID: BF62713-BLK1  
 µL dispensed: 10 from 148, 5 from 147, 15 from 37  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	-0.0001	0.0006	0.0034	0.0542	0.0554	04:37:44	Yes

As



BF62713-BS1X20  
(Replicate 1)  
(AA)  
BF62713-BS1X20  
(Replicate 1)  
(BG)

2	22.6	22.6	0.0822	0.0829	0.2306	0.0551	0.0499	04:46:15	Yes
Mean:	22.8	22.8	0.0826						
SD :	0.17	0.17	0.0006						
%RSD:	0.76	0.76	0.79						

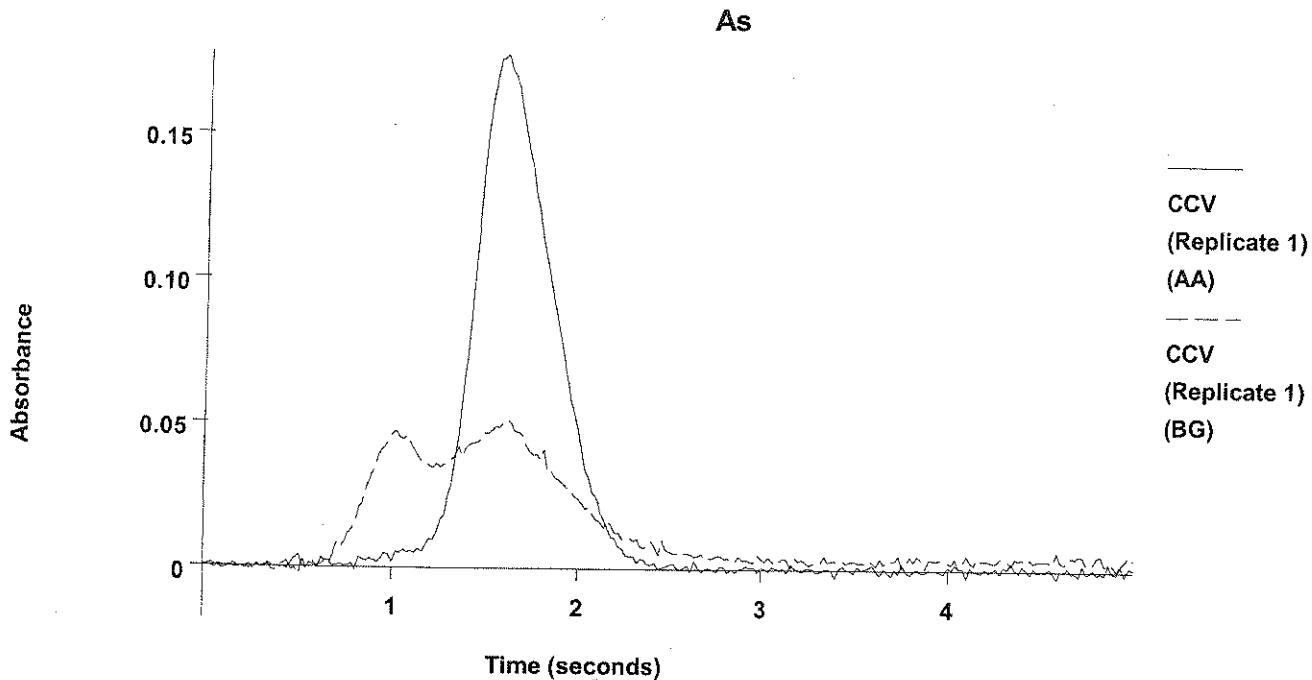
915

=====  
Element: As    Seq. No.: 73    AS Loc.: 126    Date: 06/30/2006

Sample ID: CCV

µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.9	23.9	0.0869	0.0887	0.1778	0.0631	0.0516	04:49:07	Yes

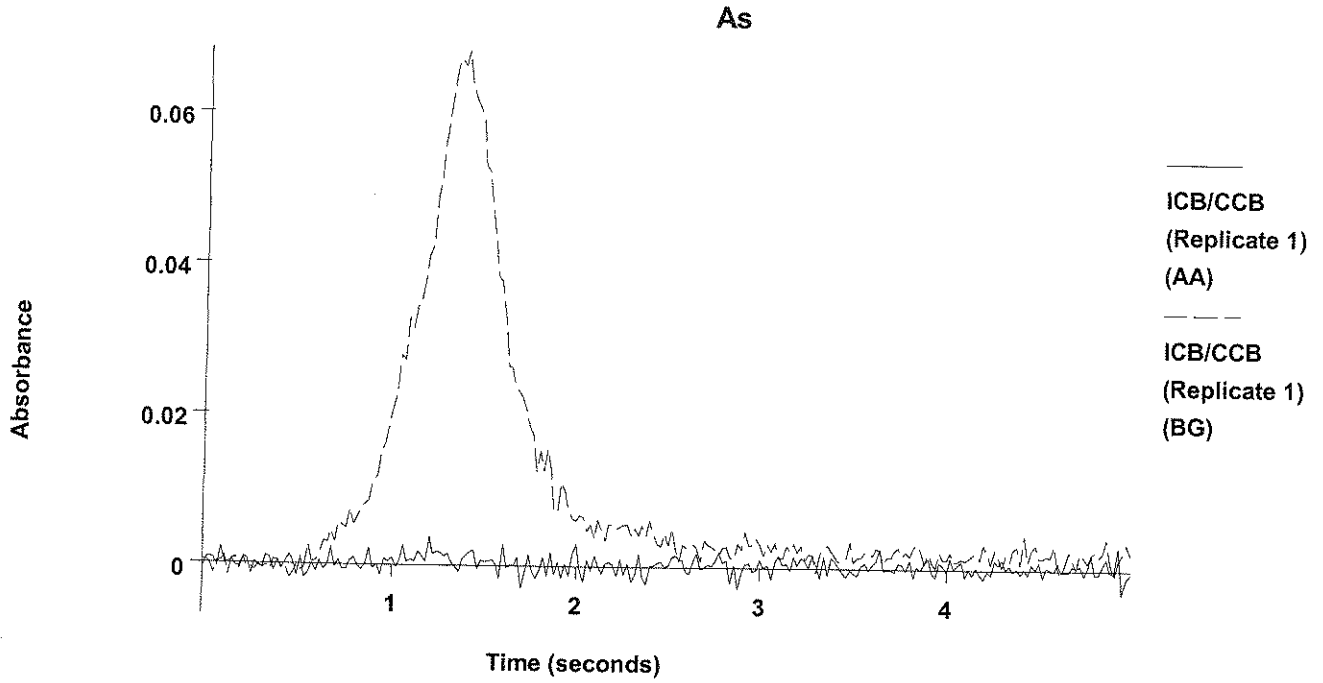


2	23.7	23.7	0.0861	0.0880	0.1710	0.0666	0.0526	04:52:00	Yes
Mean:	23.8	23.8	0.0865						
SD :	0.15	0.15	0.0005						
%RSD:	0.61	0.61	0.63						

QC value within specified limits. ✓

=====  
 Element: As    Seq. No.: 74    AS Loc.: 148    Date: 06/30/2006  
 Sample ID: ICB/CCB  
 µL dispensed: 10 from 148, 5 from 147, 15 from 148  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr	Peak Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	-0.0006	0.0012	0.0038	0.0456	0.0684	04:54:50	Yes	



2	0.4	0.4	-0.0010	0.0008	0.0030	0.0442	0.0661	04:57:40	Yes
Mean:	0.4	0.4	-0.0008						
SD :	0.08	0.08	0.0003						
%RSD:	17.4	17.4	34.60						

QC value within specified limits. ✓

=====  
 Element: As    Seq. No.: 75    AS Loc.: 39    Date: 06/30/2006  
 Sample ID: BF62713-BSD1X20  
 µL dispensed: 10 from 148, 5 from 147, 15 from 39  
 =====

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.1	23.1	0.0840	0.0848	0.2410	0.0463	0.0429	05:00:29	Yes

## ANALYSIS SEQUENCE

BPG0229

Instrument: HG1

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0229-CAL1	QC		1		6F23031		
BPG0229-CAL2	QC		2		6F23032		
BPG0229-CAL3	QC		3		6F23033		
BPG0229-CAL4	QC		4		6F23034		
BPG0229-CAL5	QC		5		6F23035		
BPG0229-CAL6	QC		6		6F23036		
BPG0229-ICV1	QC		7		6F23034		
BPG0229-SCV1	QC		8		6F23037		
BPG0229-ICB1	QC		9				
BF62318-BLK1	QC		10				
BF62318-BS1	QC		11				
BPG0229-CCB1	QC		12				
BPG0229-CCV1	QC		13		6F23034		
BF62318-BSD1	QC		14				
BF62318-SRM1	QC		15				
BF62318-DUP1	QC		16				
BF62318-MS1	QC		17				
BF62318-PS1	QC		18				
BF62318-MSD1	QC		19				
BF62318-DUP2	QC		20				
BF62318-MS2	QC		21				
BF62318-MSD2	QC		22				
BF62318-PS2	QC		23				
BPG0229-CCB2	QC		24				
BPG0229-CCV2	QC		25		6F23034		
0606373-19	Hg: ppm Mercury 7471	F	26				MACTEC Engineering & Consulting, Inc
0606373-18	Hg: ppm Mercury 7471	F	27				MACTEC Engineering & Consulting, Inc
0606373-17	Hg: ppm Mercury 7471	F	28				MACTEC Engineering & Consulting, Inc
0606373-16	Hg: ppm Mercury 7471	F	29				MACTEC Engineering & Consulting, Inc
0606373-15	Hg: ppm Mercury 7471	F	30				MACTEC Engineering & Consulting, Inc
0606373-14	Hg: ppm Mercury 7471	F	31				MACTEC Engineering & Consulting, Inc
0606373-13	Hg: ppm Mercury 7471	F	32				MACTEC Engineering & Consulting, Inc
0606373-12	Hg: ppm Mercury 7471	F	33				MACTEC Engineering & Consulting, Inc

Samples Loaded By

Date

Data Processed By

Date

## ANALYSIS SEQUENCE

BPG0229

Instrument: HG1

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606373-10	Hg: ppm Mercury 7471	F	34				MACTEC Engineering & Consulting, Inc
0606373-09	Hg: ppm Mercury 7471	F	35				MACTEC Engineering & Consulting, Inc
BPG0229-CCB3	QC		36				
BPG0229-CCV3	QC		37		6F23034		
0606373-08	Hg: ppm Mercury 7471	F	38				MACTEC Engineering & Consulting, Inc
0606373-07	Hg: ppm Mercury 7471	F	39				MACTEC Engineering & Consulting, Inc
0606373-06	Hg: ppm Mercury 7471	F	40				MACTEC Engineering & Consulting, Inc
0606373-05	Hg: ppm Mercury 7471	F	41				MACTEC Engineering & Consulting, Inc
0606373-04	Hg: ppm Mercury 7471	F	42				MACTEC Engineering & Consulting, Inc
0606373-03	Hg: ppm Mercury 7471	F	43				MACTEC Engineering & Consulting, Inc
0606373-02	Hg: ppm Mercury 7471	F	44				MACTEC Engineering & Consulting, Inc
0606373-01	Hg: ppm Mercury 7471	F	45				MACTEC Engineering & Consulting, Inc
BPG0229-SRD1	QC		46				
BPG0229-SRD2	QC		47				
BPG0229-CCB4	QC		48				
BPG0229-CCV4	QC		49		6F23034		
BF62321-BLK1	QC		50				
BF62321-BS1	QC		51				
BF62321-BSD1	QC		52				
BF62321-SRM1	QC		53				
BF62321-DUP1	QC		54				
BF62321-MS1	QC		55				
BF62321-MSD1	QC		56				
BF62321-PS1	QC		57				
BF62321-DUP2	QC		58				
BF62321-MS2	QC		59				
BPG0229-CCB5	QC		60				
BPG0229-CCV5	QC		61		6F23034		
BF62321-MSD2	QC		62				
BF62321-PS2	QC		63				
0606374-16	Hg: ppm Mercury 7471	F	64				MACTEC Engineering & Consulting, Inc
0606374-15	Hg: ppm Mercury 7471	F	65				MACTEC Engineering & Consulting, Inc
0606374-14	Hg: ppm Mercury 7471	F	66				MACTEC Engineering & Consulting, Inc

Samples Loaded By

Date

Data Processed By

Date



## ANALYSIS SEQUENCE

BPG0229

Instrument: HG1

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606374-13	Hg: ppm Mercury 7471	F	67				MACTEC Engineering & Consulting, In
0606374-12	Hg: ppm Mercury 7471	F	68				MACTEC Engineering & Consulting, In
0606374-11	Hg: ppm Mercury 7471	F	69				MACTEC Engineering & Consulting, In
0606374-10	Hg: ppm Mercury 7471	F	70				MACTEC Engineering & Consulting, In
0606374-09	Hg: ppm Mercury 7471	F	71				MACTEC Engineering & Consulting, In
BPG0229-CCB6	QC		72				
BPG0229-CCV6	QC		73		6F23034		
0606374-08	Hg: ppm Mercury 7471	F	74				MACTEC Engineering & Consulting, In
0606374-07	Hg: ppm Mercury 7471	F	75				MACTEC Engineering & Consulting, In
0606374-06	Hg: ppm Mercury 7471	F	76				MACTEC Engineering & Consulting, In
0606374-05	Hg: ppm Mercury 7471	F	77				MACTEC Engineering & Consulting, In
0606374-04	Hg: ppm Mercury 7471	F	78				MACTEC Engineering & Consulting, In
0606374-03	Hg: ppm Mercury 7471	F	79				MACTEC Engineering & Consulting, In
0606374-02	Hg: ppm Mercury 7471	F	80				MACTEC Engineering & Consulting, In
0606374-01	Hg: ppm Mercury 7471	F	81				MACTEC Engineering & Consulting, In
0606373-21	Hg: ppm Mercury 7471	F	82				MACTEC Engineering & Consulting, In
0606373-20	Hg: ppm Mercury 7471	F	83				MACTEC Engineering & Consulting, In
BPG0229-CCB7	QC		84				
BPG0229-CCV7	QC		85		6F23034		
BPG0229-SRD3	QC		86				
BPG0229-SRD4	QC		87				
BPG0229-CCB8	QC		88				
BPG0229-CCV8	QC		89		6F23034		

Samples Loaded By

Date

Data Processed By

Date

**ESS LABORATORY**  
Data Review Check List for Mercury

**Data Review Check List for Mercury**

Project Number(s): 06361, 373, 374, 375, 357		Run Date: 6/24/06		
Batch Number (s): 062406A				
SOP Number: 30 2451 or 30 7471A				
Review Item	Yes (X)	No (X)	N/A (X)	
1. Does the daily standard curve consist of a Calibration Blank and the required 5 Calibration Standards?	X			
2. Is the CCV standard analyzed immediately after the curve? Does this CCV meet QC limits ( $\pm 5\%$ for 245.1 and $\pm 10\%$ for 7470/1A.)	X			
3. Is the ICV from a second source and is its percent recovery within QC limits ( $\pm 10\%$ )?	X			
4. Is the method blank run at the required frequency (1 per batch) and not exceed the MRL?	X			
5. Is the LCS from a source separate from the calibration standards and is its percent recovery within QC limits ( $\pm 15\%$ for 245.1 and $\pm 20\%$ for 7470/1A)?	X			
6. Are Matrix Spikes run at the required frequency (1 per ten samples or per analytical batch)? Is the percent recovery for Matrix Spikes within 75-125% (80-120% for USACE/Navy)?		X		
7. Are Duplicates run the required frequency (1 per ten samples or per analytical batch)? Is the relative percent difference within QC limits ( $\leq 20\%$ for aqueous and $\leq 35\%$ for soil/sediments ( $\leq 20\%$ for USACE))?	X			
8. Is the CCV standard (STD3) also analyzed after every tenth sample and at the end of the sample run? Does this CCV meet QC limits ( $\pm 10\%$ )	X			
9. Are all the samples with concentrations greater than the highest standard used for initial calibration reprocessed and reanalyzed?				X
10. Has the serial dilution been analyzed at the required frequency (once per analytical batch) and are results within criterion ( $\pm 10\%$ RPD)?	X			
11. Has the post dilution spike been analyzed at the required frequency (once per analytical batch) and are results within criterion (85-115%)?		X		
12. Are all sample holding times met?	X			
13. Are all non-conformances included and noted?	X			
14. Are all sample IDs and units checked for transcription errors?	X			

Comments on any "No" response:

BFG2318 - WSI UD; MSD 20%; PDS 75%; MSZ 19%; MSD2 UD; PDS 835  
BFG2321 - MSD 1385.

Analyst: SP Date: 6/24/06 (B)  
Second Level Review: JTD Date: 6/26/06

Control Number: 30.0012-0602A (R. 1 8/2000)

Page \_\_\_\_\_

## Autosampler Loading List

Sample Information File: 062406A.SIF  
 Methods: Hg\_5ppb Shigh

Location	Elements	Solution
0	Hg	Wash Solution
1	Hg	Calib Blank
	Hg	ICCB: 0.0000 µg/L
2	Hg	0.5 ug/L: 0.5 µg/L
3	Hg	1.0 ug/L: 1.0 µg/L
4	Hg	3.0 ug/L: 3.0 µg/L
	Hg	STD 3.0: 3.0000 µg/L
5	Hg	5.0 ug/L: 5.0 µg/L
6	Hg	10.0 ug/L: 10.0 µg/L
7	Hg	ICV: 3.0000 µg/L
9	Hg	Sample: BF62318-blk1
10	Hg	Sample: BF62318-bs1
11	Hg	Sample: BF62318-bsd1
12	Hg	Sample: BF62318-srml x10
13	Hg	Sample: 0606361-01
14	Hg	Sample: 0606373-01
15	Hg	Sample: 0606373-02
16	Hg	Sample: 0606373-03
17	Hg	Sample: 0606373-04
18	Hg	Sample: 0606373-05
19	Hg	Sample: 0606373-06
20	Hg	Sample: 0606373-07
21	Hg	Sample: 0606373-08
22	Hg	Sample: BF62318-dup1
23	Hg	Sample: BF62318-ms1
24	Hg	Sample: BF62318-msd1
25	Hg	Sample: BF62318-sd1 x5
26	Hg	Sample: BF62318-pds1
27	Hg	Sample: 0606373-09
28	Hg	Sample: 0606373-10
29	Hg	Sample: 0606373-12
30	Hg	Sample: 0606373-13
31	Hg	Sample: 0606373-14
32	Hg	Sample: 0606373-15
33	Hg	Sample: 0606373-16
34	Hg	Sample: 0606373-17
35	Hg	Sample: 0606373-18
36	Hg	Sample: BF62318-dup2
37	Hg	Sample: BF62318-ms2
38	Hg	Sample: BF62318-msd2
39	Hg	Sample: BF62318-sd2 x5
40	Hg	Sample: BF62318-pds2
41	Hg	Sample: 0606373-19
42	Hg	Sample: BF62321-blk1
43	Hg	Sample: BF62321-bs1
44	Hg	Sample: BF62321-bsd1
45	Hg	Sample: BF62321-srml x10
46	Hg	Sample: 0606374-01
47	Hg	Sample: 0606374-02
48	Hg	Sample: 0606374-03
49	Hg	Sample: 0606374-04
50	Hg	Sample: 0606374-05
51	Hg	Sample: 0606374-06
52	Hg	Sample: 0606374-07
53	Hg	Sample: 0606374-08
54	Hg	Sample: 0606374-09

55	Hg	Sample: 0606374-10
56	Hg	Sample: BF62321-dup1
57	Hg	Sample: BF62321-ms1
58	Hg	Sample: BF62321-msd1
59	Hg	Sample: BF62321-sd1 x5
60	Hg	Sample: BF62321-pds1
61	Hg	Sample: 0606374-11
62	Hg	Sample: 0606374-12
63	Hg	Sample: 0606374-13
64	Hg	Sample: 0606374-14
65	Hg	Sample: BF62321-dup2
66	Hg	Sample: BF62321-ms2
67	Hg	Sample: BF62321-msd2
68	Hg	Sample: BF62321-sd2 x5
69	Hg	Sample: BF62321-pds2
70	Hg	Sample: 0606375-02
71	Hg	Sample: 0606374-15
72	Hg	Sample: 0606374-16
73	Hg	Sample: 0606373-20
74	Hg	Sample: 0606373-21
75	Hg	Sample: BF62231-blk1
76	Hg	Sample: BF62231-bs1
77	Hg	Sample: BF62231-bsd1
78	Hg	Sample: BF62231-srml x10
79	Hg	Sample: 0606357-05
80	Hg	Sample: BF62231-dup1
81	Hg	Sample: BF62231-ms1
82	Hg	Sample: BF62231-msd1
83	Hg	Sample: BF62231-sd1 x5
84	Hg	Sample: BF62231-pds1

Method Name: Hg\_5ppb Shigh  
 Method Description: SnCl/Hg read  
 Element: Hg

Date: 06/24/2006

Technique: FI-MHS

Calibration Type:

Hg, Calc. Intercept : Linear

Wavelength: 253.7 nm

Sample Info Name: 062406A.SIF

Results Data Set Name: 062406ad

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 06/24/2006  
 Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0213	0.0213	0.0039	11:42:50	Yes
2			0.0203	0.0203	0.0038	11:43:20	Yes
Mean:			0.0208				
SD :			0.0007				
%RSD:			3.5917				

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 06/24/2006  
 Sample ID: 0.5 ug/L

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0641	0.0849	0.0170	11:44:43	Yes
2			0.0629	0.0837	0.0169	11:45:12	Yes
Mean:			0.0635				
SD :			0.0009				
%RSD:			1.3518				

[Hg] Standard number 1 applied. [0.50]  
 Correlation Coefficient: 1.00000 Slope: 0.12704  
 Intercept : 0.00000

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 06/24/2006  
 Sample ID: 1.0 ug/L

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1232	0.1441	0.0293	11:46:36	Yes
2			0.1218	0.1426	0.0293	11:47:05	Yes
Mean:			0.1225				
SD :			0.0010				
%RSD:			0.8365				

[Hg] Standard number 2 applied. [1.00]  
 Correlation Coefficient: 0.99977 Slope: 0.12252  
 Intercept : 0.00075

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 06/24/2006  
 Sample ID: 3.0 ug/L

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.3522	0.3730	0.0767	11:48:30	Yes
2			0.3474	0.3682	0.0761	11:49:00	Yes

Mean: 0.3498  
 SD : 0.0034  
 %RSD: 0.9826  
 [Hg] Standard number 3 applied. [3.00]  
 Correlation Coefficient: 0.99980 Slope: 0.11583  
 Intercept : 0.00365

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 06/24/2006  
 Sample ID: 5.0 ug/L

Repl #	Sample Conc µg/L	Std Conc µg/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.5812	0.6020	0.1244	11:50:26	Yes
2			0.5801	0.6009	0.1246	11:50:56	Yes

Mean: 0.5806  
 SD : 0.0007  
 %RSD: 0.1267  
 [Hg] Standard number 4 applied. [5.00]  
 Correlation Coefficient: 0.99994 Slope: 0.11544  
 Intercept : 0.00396

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 06/24/2006  
 Sample ID: 10.0 ug/L

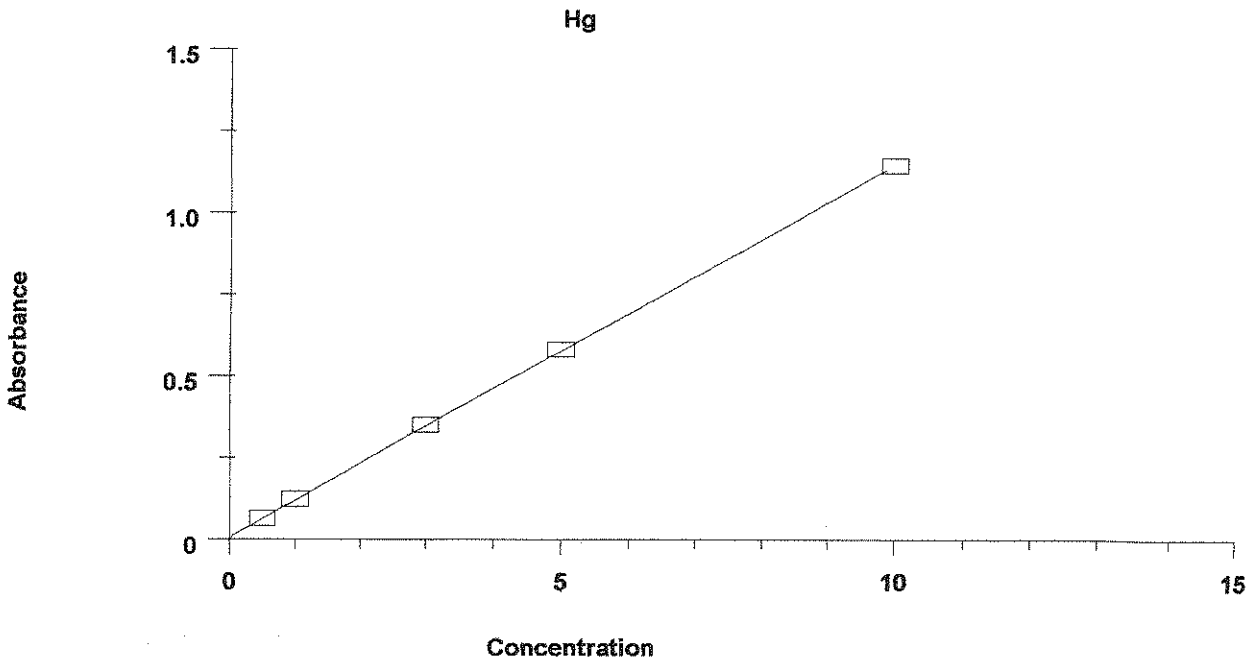
Repl #	Sample Conc µg/L	Std Conc µg/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1			1.1511	1.1719	0.2418	11:52:22	Yes
2			1.1346	1.1554	0.2402	11:52:52	Yes

Mean: 1.1428  
 SD : 0.0116  
 %RSD: 1.0185  
 [Hg] Standard number 5 applied. [10.00]  
 Correlation Coefficient: 0.99996 Slope: 0.11398  
 Intercept : 0.00611

Calibration data for Hg

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0208	--	---	---	---
0.5 ug/L	0.0635	0.50	0.50	0.001	1.4
1.0 ug/L	0.1225	1.00	1.02	0.001	0.8
3.0 ug/L	0.3498	3.00	3.02	0.003	1.0
5.0 ug/L	0.5806	5.00	5.04	0.001	0.1
10.0 ug/L	1.1428	10.00	9.97	0.012	1.0
Correlation Coefficient: 0.99996		Slope:	0.11398	Intercept:	0.0061

*cal good 8/6/24/06*



Element: Hg    Seq. No.: 7    AS Loc.: 4    Date: 06/24/2006  
 Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.04	3.04	0.3524	0.3732	0.0764	11:54:20	Yes
2	3.00	3.00	0.3478	0.3686	0.0761	11:54:49	Yes
Mean:	3.02	3.02	0.3501				
SD :	0.028	0.028	0.0032				
%RSD:	0.9	0.9	0.9256				

QC value within specified limits.

Element: Hg    Seq. No.: 8    AS Loc.: 7    Date: 06/24/2006  
 Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.17	3.17	0.3675	0.3883	0.0801	11:56:15	Yes
2	3.13	3.13	0.3634	0.3842	0.0803	11:56:44	Yes
Mean:	3.15	3.15	0.3655				
SD :	0.026	0.026	0.0029				
%RSD:	0.8	0.8	0.8013				

QC value within specified limits.

Element: Hg    Seq. No.: 9    AS Loc.: 1    Date: 06/24/2006  
 Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.05	-0.05	0.0007	0.0215	0.0039	11:58:11	Yes
2	-0.05	-0.05	0.0002	0.0210	0.0039	11:58:40	Yes

Mean: -0.05 -0.05 0.0004  
 SD : 0.003 0.003 0.0004  
 %RSD: 6.5 6.5 84.4794  
 QC value within specified limits.

=====  
 Element: Hg Seq. No.: 10 AS Loc.: 9 Date: 06/24/2006  
 Sample ID: BF62318-blk1

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.08	-0.08	-0.0029	0.0179	0.0033	12:00:01	Yes
2	-0.09	-0.09	-0.0044	0.0164	0.0031	12:00:30	Yes
Mean:	-0.09	-0.09	-0.0036				
SD :	0.009	0.009	0.0010				
%RSD:	10.4	10.4	27.9628				

=====  
 Element: Hg Seq. No.: 11 AS Loc.: 10 Date: 06/24/2006  
 Sample ID: BF62318-bs1

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.91	2.91	0.3379	0.3587	0.0739	12:01:53	Yes
2	2.92	2.92	0.3385	0.3593	0.0742	12:02:22	Yes
Mean:	2.91	2.91	0.3382				
SD :	0.004	0.004	0.0004				
%RSD:	0.1	0.1	0.1310				

=====  
 Element: Hg Seq. No.: 12 AS Loc.: 11 Date: 06/24/2006  
 Sample ID: BF62318-bsd1

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.89	2.89	0.3352	0.3560	0.0734	12:03:46	Yes
2	2.88	2.88	0.3343	0.3551	0.0733	12:04:15	Yes
Mean:	2.88	2.88	0.3347				
SD :	0.006	0.006	0.0006				
%RSD:	0.2	0.2	0.1898				

=====  
 Element: Hg Seq. No.: 13 AS Loc.: 12 Date: 06/24/2006  
 Sample ID: BF62318-srml x10

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.48	2.48	0.2889	0.3098	0.0633	12:05:40	Yes
2	2.42	2.42	0.2815	0.3024	0.0622	12:06:09	Yes
Mean:	2.45	2.45	0.2852				
SD :	0.046	0.046	0.0052				
%RSD:	1.9	1.9	1.8341				

2.45(40)(10)  
 0.6 = 1.63

=====  
 Element: Hg Seq. No.: 14 AS Loc.: 13 Date: 06/24/2006  
 Sample ID: 0606361-01

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.66	0.66	0.0817	0.1026	0.0205	12:07:34	Yes
2	0.66	0.66	0.0809	0.1017	0.0205	12:08:04	Yes
Mean:	0.66	0.66	0.0813				
SD :	0.005	0.005	0.0006				



%RSD: 0.8 0.8 0.7362

Element: Hg Seq. No.: 15 AS Loc.: 14 Date: 06/24/2006  
 Sample ID: 0606373-01

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.34	4.34	0.5010	0.5218	0.1060	12:09:31	Yes
2	4.30	4.30	0.4957	0.5165	0.1057	12:10:01	Yes
Mean:	4.32	4.32	0.4983				
SD :	0.032	0.032	0.0037				
%RSD:	0.8	0.8	0.7421				

Element: Hg Seq. No.: 16 AS Loc.: 15 Date: 06/24/2006  
 Sample ID: 0606373-02

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0059	0.0268	0.0049	12:11:29	Yes
2	0.00	0.00	0.0058	0.0266	0.0049	12:11:58	Yes
Mean:	0.00	0.00	0.0059				
SD :	0.001	0.001	0.0001				
%RSD:	45.5	45.5	1.9730				

Element: Hg Seq. No.: 17 AS Loc.: 16 Date: 06/24/2006  
 Sample ID: 0606373-03

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.37	1.37	0.1626	0.1834	0.0368	12:13:26	Yes
2	1.35	1.35	0.1601	0.1809	0.0365	12:13:55	Yes
Mean:	1.36	1.36	0.1613				
SD :	0.016	0.016	0.0018				
%RSD:	1.2	1.2	1.1126				

Element: Hg Seq. No.: 18 AS Loc.: 17 Date: 06/24/2006  
 Sample ID: 0606373-04

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.31	0.31	0.0411	0.0620	0.0120	12:15:20	Yes
2	0.29	0.29	0.0396	0.0604	0.0118	12:15:50	Yes
Mean:	0.30	0.30	0.0404				
SD :	0.010	0.010	0.0011				
%RSD:	3.3	3.3	2.7684				

Element: Hg Seq. No.: 19 AS Loc.: 18 Date: 06/24/2006  
 Sample ID: 0606373-05

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.34	5.34	0.6142	0.6351	0.1282	12:17:11	Yes
2	5.30	5.30	0.6103	0.6311	0.1281	12:17:41	Yes
Mean:	5.32	5.32	0.6123				
SD :	0.025	0.025	0.0028				
%RSD:	0.5	0.5	0.4567				

Element: Hg Seq. No.: 20 AS Loc.: 4 Date: 06/24/2006  
 Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.00	3.00	0.3481	0.3689	0.0757	12:19:05	Yes
2	2.96	2.96	0.3440	0.3648	0.0753	12:19:34	Yes
Mean:	2.98	2.98	0.3461				
SD :	0.026	0.026	0.0029				
%RSD:	0.9	0.9	0.8411				

QC value within specified limits.

Element: Hg Seq. No.: 21 AS Loc.: 1 Date: 06/24/2006  
 Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.05	-0.05	0.0007	0.0215	0.0039	12:20:59	Yes
2	-0.05	-0.05	0.0004	0.0212	0.0038	12:21:28	Yes
Mean:	-0.05	-0.05	0.0006				
SD :	0.002	0.002	0.0002				
%RSD:	4.2	4.2	41.1068				

QC value within specified limits.

Element: Hg Seq. No.: 22 AS Loc.: 19 Date: 06/24/2006  
 Sample ID: 0606373-06

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0086	0.0294	0.0051	12:22:50	Yes
2	0.02	0.02	0.0082	0.0290	0.0049	12:23:19	Yes
Mean:	0.02	0.02	0.0084				
SD :	0.003	0.003	0.0003				
%RSD:	13.2	13.2	3.6149				

Element: Hg Seq. No.: 23 AS Loc.: 20 Date: 06/24/2006  
 Sample ID: 0606373-07

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	6.05	6.05	0.6958	0.7166	0.1449	12:24:42	Yes
2	6.03	6.03	0.6930	0.7138	0.1448	12:25:11	Yes
Mean:	6.04	6.04	0.6944				
SD :	0.017	0.017	0.0020				
%RSD:	0.3	0.3	0.2830				

Element: Hg Seq. No.: 24 AS Loc.: 21 Date: 06/24/2006  
 Sample ID: 0606373-08

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	0.0038	0.0246	0.0044	12:26:33	Yes
2	-0.02	-0.02	0.0037	0.0245	0.0043	12:27:03	Yes
Mean:	-0.02	-0.02	0.0038				
SD :	0.000	0.000	0.0000				
%RSD:	2.0	2.0	1.2564				

Element: Hg Seq. No.: 25 AS Loc.: 22 Date: 06/24/2006

Sample ID: BF62318-dup1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	0.0045	0.0253	0.0045	12:28:27	Yes
2	-0.02	-0.02	0.0037	0.0246	0.0044	12:28:56	Yes
Mean:	-0.02	-0.02	0.0041				
SD :	0.005	0.005	0.0005				
%RSD:	27.2	27.2	13.0653				

*Handwritten mark*

Element: Hg Seq. No.: 26 AS Loc.: 23 Date: 06/24/2006  
 Sample ID: BF62318-ms1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.48	0.48	0.0607	0.0815	0.0162	12:30:21	Yes
2	0.43	0.43	0.0548	0.0757	0.0152	12:30:50	Yes
Mean:	0.45	0.45	0.0578				
SD :	0.036	0.036	0.0042				
%RSD:	8.1	8.1	7.1996				

*Handwritten mark*

Element: Hg Seq. No.: 27 AS Loc.: 24 Date: 06/24/2006  
 Sample ID: BF62318-msd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.60	0.60	0.0746	0.0954	0.0188	12:32:15	Yes
2	0.57	0.57	0.0711	0.0919	0.0181	12:32:44	Yes
Mean:	0.59	0.59	0.0728				
SD :	0.022	0.022	0.0025				
%RSD:	3.7	3.7	3.4323				

*Handwritten mark*

Element: Hg Seq. No.: 28 AS Loc.: 25 Date: 06/24/2006  
 Sample ID: BF62318-sd1 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.16	-0.16	-0.0122	0.0086	0.0017	12:34:09	Yes
2	-0.17	-0.17	-0.0129	0.0079	0.0017	12:34:38	Yes
Mean:	-0.16	-0.16	-0.0125				
SD :	0.004	0.004	0.0005				
%RSD:	2.7	2.7	3.9909				

*Handwritten mark*

Element: Hg Seq. No.: 29 AS Loc.: 26 Date: 06/24/2006  
 Sample ID: BF62318-pds1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.04	2.04	0.2386	0.2594	0.0556	12:36:03	Yes
2	2.00	2.00	0.2340	0.2548	0.0549	12:36:32	Yes
Mean:	2.02	2.02	0.2363				
SD :	0.029	0.029	0.0033				
%RSD:	1.4	1.4	1.3795				

*Handwritten mark*

Element: Hg Seq. No.: 30 AS Loc.: 27 Date: 06/24/2006  
 Sample ID: 0606373-09

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
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#	µg/L	µg/L	Signal	Area	Height	Time	Stored
1	0.74	0.74	0.0900	0.1108	0.0217	12:37:58	Yes
2	0.72	0.72	0.0884	0.1092	0.0215	12:38:28	Yes
Mean:	0.73	0.73	0.0892				
SD :	0.010	0.010	0.0011				
%RSD:	1.4	1.4	1.2578				

Element: Hg Seq. No.: 31 AS Loc.: 28 Date: 06/24/2006  
Sample ID: 0606373-10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.03	0.03	0.0093	0.0301	0.0052	12:39:55	Yes
2	0.03	0.03	0.0098	0.0307	0.0053	12:40:25	Yes
Mean:	0.03	0.03	0.0095				
SD :	0.004	0.004	0.0004				
%RSD:	11.9	11.9	4.3001				

Element: Hg Seq. No.: 32 AS Loc.: 4 Date: 06/24/2006  
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.00	3.00	0.3482	0.3690	0.0751	12:41:51	Yes
2	2.98	2.98	0.3459	0.3667	0.0750	12:42:20	Yes
Mean:	2.99	2.99	0.3470				
SD :	0.014	0.014	0.0016				
%RSD:	0.5	0.5	0.4734				

QC value within specified limits.

Element: Hg Seq. No.: 33 AS Loc.: 1 Date: 06/24/2006  
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.05	-0.05	0.0009	0.0217	0.0039	12:43:43	Yes
2	-0.06	-0.06	-0.0005	0.0203	0.0038	12:44:12	Yes
Mean:	-0.05	-0.05	0.0002				
SD :	0.009	0.009	0.0010				
%RSD:	16.4	16.4	555.2542				

QC value within specified limits.

Element: Hg Seq. No.: 34 AS Loc.: 29 Date: 06/24/2006  
Sample ID: 0606373-12

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.17	0.17	0.0257	0.0465	0.0089	12:45:37	Yes
2	0.18	0.18	0.0263	0.0472	0.0089	12:46:06	Yes
Mean:	0.17	0.17	0.0260				
SD :	0.004	0.004	0.0005				
%RSD:	2.3	2.3	1.7804				

Element: Hg Seq. No.: 35 AS Loc.: 30 Date: 06/24/2006  
Sample ID: 0606373-13

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
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1	0.08	0.08	0.0157	0.0365	0.0068	12:47:33	Yes
2	0.08	0.08	0.0149	0.0357	0.0067	12:48:02	Yes
Mean:	0.08	0.08	0.0153				
SD :	0.005	0.005	0.0005				
%RSD:	5.9	5.9	3.5157				

PD

Element: Hg Seq. No.: 36 AS Loc.: 31 Date: 06/24/2006  
 Sample ID: 0606373-14

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.32	0.32	0.0428	0.0636	0.0122	12:49:29	Yes
2	0.31	0.31	0.0416	0.0624	0.0121	12:49:58	Yes
Mean:	0.32	0.32	0.0422				
SD :	0.008	0.008	0.0009				
%RSD:	2.4	2.4	2.0393				

PD

Element: Hg Seq. No.: 37 AS Loc.: 32 Date: 06/24/2006  
 Sample ID: 0606373-15

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	0.0014	0.0223	0.0039	12:51:23	Yes
2	-0.05	-0.05	0.0000	0.0208	0.0038	12:51:52	Yes
Mean:	-0.05	-0.05	0.0007				
SD :	0.009	0.009	0.0010				
%RSD:	18.8	18.8	140.0693				

PD

Element: Hg Seq. No.: 38 AS Loc.: 33 Date: 06/24/2006  
 Sample ID: 0606373-16

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.06	0.06	0.0127	0.0335	0.0059	12:53:12	Yes
2	0.03	0.03	0.0097	0.0305	0.0056	12:53:41	Yes
Mean:	0.04	0.04	0.0112				
SD :	0.018	0.018	0.0021				
%RSD:	41.2	41.2	18.7592				

PD

Element: Hg Seq. No.: 39 AS Loc.: 34 Date: 06/24/2006  
 Sample ID: 0606373-17

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.03	-0.03	0.0028	0.0236	0.0042	12:55:02	Yes
2	-0.03	-0.03	0.0025	0.0234	0.0041	12:55:31	Yes
Mean:	-0.03	-0.03	0.0027				
SD :	0.002	0.002	0.0002				
%RSD:	5.3	5.3	6.8558				

PD

Element: Hg Seq. No.: 40 AS Loc.: 35 Date: 06/24/2006  
 Sample ID: 0606373-18

Repl #	SampleConc µg/L	StdConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.30	0.30	0.0407	0.0615	0.0117	12:56:53	Yes
2	0.27	0.27	0.0365	0.0573	0.0110	12:57:22	Yes
Mean:	0.28	0.28	0.0386				

PD

SD : 0.026 0.026 0.0030  
 %RSD: 9.1 9.1 7.6868

Element: Hg Seq. No.: 41 AS Loc.: 36 Date: 06/24/2006  
 Sample ID: BF62318-dup2

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.28	0.28	0.0381	0.0589	0.0112	12:58:45	Yes
2	0.27	0.27	0.0374	0.0582	0.0110	12:59:15	Yes
Mean:	0.28	0.28	0.0377				
SD :	0.004	0.004	0.0005				
%RSD:	1.5	1.5	1.2927				

Element: Hg Seq. No.: 42 AS Loc.: 37 Date: 06/24/2006  
 Sample ID: BF62318-ms2

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.60	0.60	0.0746	0.0954	0.0187	01:00:38	Yes
2	0.56	0.56	0.0697	0.0905	0.0180	01:01:08	Yes
Mean:	0.58	0.58	0.0721				
SD :	0.031	0.031	0.0035				
%RSD:	5.3	5.3	4.8415				

Element: Hg Seq. No.: 43 AS Loc.: 38 Date: 06/24/2006  
 Sample ID: BF62318-msd2

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.48	0.48	0.0614	0.0822	0.0163	01:02:31	Yes
2	0.46	0.46	0.0590	0.0799	0.0159	01:03:00	Yes
Mean:	0.47	0.47	0.0602				
SD :	0.014	0.014	0.0016				
%RSD:	3.0	3.0	2.7328				

Element: Hg Seq. No.: 44 AS Loc.: 4 Date: 06/24/2006  
 Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.01	3.01	0.3492	0.3700	0.0753	01:04:25	Yes
2	2.97	2.97	0.3446	0.3654	0.0750	01:04:54	Yes
Mean:	2.99	2.99	0.3469				
SD :	0.028	0.028	0.0032				
%RSD:	0.9	0.9	0.9290				

QC value within specified limits.

Element: Hg Seq. No.: 45 AS Loc.: 1 Date: 06/24/2006  
 Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	Blncorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.06	-0.06	-0.0008	0.0200	0.0036	01:06:17	Yes
2	-0.07	-0.07	-0.0015	0.0193	0.0036	01:06:46	Yes
Mean:	-0.06	-0.06	-0.0012				
SD :	0.004	0.004	0.0005				
%RSD:	6.6	6.6	41.4260				

QC value within specified limits.

Element: Hg Seq. No.: 46 AS Loc.: 39 Date: 06/24/2006  
 Sample ID: BF62318-sd2 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.10	-0.10	-0.0048	0.0161	0.0034	01:08:10	Yes
2	-0.09	-0.09	-0.0037	0.0171	0.0036	01:08:40	Yes
Mean:	-0.09	-0.09	-0.0042				
SD :	0.006	0.006	0.0007				
%RSD:	7.1	7.1	17.4554				

NA

Element: Hg Seq. No.: 47 AS Loc.: 40 Date: 06/24/2006  
 Sample ID: BF62318-pds2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.54	2.54	0.2957	0.3165	0.0633	01:10:04	Yes
2	2.42	2.42	0.2816	0.3024	0.0612	01:10:33	Yes
Mean:	2.48	2.48	0.2886				
SD :	0.087	0.087	0.0099				
%RSD:	3.5	3.5	3.4455				

935

Element: Hg Seq. No.: 48 AS Loc.: 41 Date: 06/24/2006  
 Sample ID: 0606373-19

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0066	0.0274	0.0048	01:11:58	Yes
2	-0.01	-0.01	0.0045	0.0254	0.0046	01:12:29	Yes
Mean:	0.00	0.00	0.0056				
SD :	0.013	0.013	0.0014				
%RSD:	268.5	268.5	25.9380				

NA

Element: Hg Seq. No.: 49 AS Loc.: 42 Date: 06/24/2006  
 Sample ID: BF62321-blk1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.10	-0.10	-0.0057	0.0152	0.0029	01:13:54	Yes
2	-0.09	-0.09	-0.0042	0.0166	0.0030	01:14:23	Yes
Mean:	-0.10	-0.10	-0.0049				
SD :	0.009	0.009	0.0010				
%RSD:	9.5	9.5	21.2718				

NA

Element: Hg Seq. No.: 50 AS Loc.: 43 Date: 06/24/2006  
 Sample ID: BF62321-bs1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.88	2.88	0.3340	0.3548	0.0716	01:15:48	Yes
2	2.84	2.84	0.3298	0.3506	0.0717	01:16:17	Yes
Mean:	2.86	2.86	0.3319				
SD :	0.026	0.026	0.0030				
%RSD:	0.9	0.9	0.8960				

955

Element: Hg Seq. No.: 51 AS Loc.: 44 Date: 06/24/2006  
 Sample ID: BF62321-bsd1

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.86	2.86	0.3315	0.3524	0.0718	01:17:43	Yes
2	2.82	2.82	0.3280	0.3488	0.0715	01:18:13	Yes
Mean:	2.84	2.84	0.3298				
SD :	0.022	0.022	0.0025				
%RSD:	0.8	0.8	0.7529				

957

Element: Hg Seq. No.: 52 AS Loc.: 45 Date: 06/24/2006  
 Sample ID: BF62321-srml x10

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.46	2.46	0.2865	0.3073	0.0625	01:19:40	Yes
2	2.44	2.44	0.2839	0.3047	0.0626	01:20:09	Yes
Mean:	2.45	2.45	0.2852				
SD :	0.016	0.016	0.0018				
%RSD:	0.6	0.6	0.6303				

$\frac{2.45(40)(10)}{0.6} = 1.63$

Element: Hg Seq. No.: 53 AS Loc.: 46 Date: 06/24/2006  
 Sample ID: 0606374-01

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.11	0.11	0.0183	0.0392	0.0071	01:21:37	Yes
2	0.08	0.08	0.0158	0.0366	0.0069	01:22:06	Yes
Mean:	0.10	0.10	0.0170				
SD :	0.016	0.016	0.0018				
%RSD:	16.7	16.7	10.6913				

PD

Element: Hg Seq. No.: 54 AS Loc.: 47 Date: 06/24/2006  
 Sample ID: 0606374-02

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	0.0039	0.0247	0.0042	01:23:34	Yes
2	-0.05	-0.05	0.0007	0.0216	0.0040	01:24:03	Yes
Mean:	-0.03	-0.03	0.0023				
SD :	0.019	0.019	0.0022				
%RSD:	58.0	58.0	95.6097				

PD

Element: Hg Seq. No.: 55 AS Loc.: 48 Date: 06/24/2006  
 Sample ID: 0606374-03

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.14	0.14	0.0223	0.0431	0.0082	01:25:27	Yes
2	0.12	0.12	0.0203	0.0411	0.0079	01:25:56	Yes
Mean:	0.13	0.13	0.0213				
SD :	0.012	0.012	0.0014				
%RSD:	9.2	9.2	6.5532				

PD

Element: Hg Seq. No.: 56 AS Loc.: 4 Date: 06/24/2006  
 Sample ID: STD 3.0



Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.99	2.99	0.3470	0.3678	0.0750	01:27:19	Yes
2	2.96	2.96	0.3439	0.3647	0.0747	01:27:48	Yes
Mean:	2.98	2.98	0.3454				
SD :	0.019	0.019	0.0022				
%RSD:	0.6	0.6	0.6290				

QC value within specified limits.

Element: Hg Seq. No.: 57 AS Loc.: 1 Date: 06/24/2006  
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.06	-0.06	-0.0010	0.0198	0.0035	01:29:13	Yes
2	-0.07	-0.07	-0.0021	0.0187	0.0034	01:29:42	Yes
Mean:	-0.07	-0.07	-0.0016				
SD :	0.007	0.007	0.0008				
%RSD:	10.0	10.0	48.5623				

QC value within specified limits.

Element: Hg Seq. No.: 58 AS Loc.: 49 Date: 06/24/2006  
Sample ID: 0606374-04

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	0.0055	0.0263	0.0046	01:31:04	Yes
2	-0.02	-0.02	0.0040	0.0248	0.0044	01:31:34	Yes
Mean:	-0.01	-0.01	0.0047				
SD :	0.010	0.010	0.0011				
%RSD:	79.9	79.9	23.2740				

Element: Hg Seq. No.: 59 AS Loc.: 50 Date: 06/24/2006  
Sample ID: 0606374-05

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.04	0.04	0.0107	0.0315	0.0057	01:32:55	Yes
2	0.05	0.05	0.0115	0.0323	0.0058	01:33:24	Yes
Mean:	0.04	0.04	0.0111				
SD :	0.005	0.005	0.0005				
%RSD:	11.1	11.1	4.9601				

Element: Hg Seq. No.: 60 AS Loc.: 51 Date: 06/24/2006  
Sample ID: 0606374-06

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.03	-0.03	0.0027	0.0236	0.0041	01:34:45	Yes
2	-0.04	-0.04	0.0014	0.0222	0.0040	01:35:14	Yes
Mean:	-0.04	-0.04	0.0021				
SD :	0.008	0.008	0.0009				
%RSD:	23.2	23.2	44.7332				

Element: Hg Seq. No.: 61 AS Loc.: 52 Date: 06/24/2006  
Sample ID: 0606374-07

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
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#	µg/L	µg/L	Signal	Area	Height	Time	Stored
1	0.58	0.58	0.0717	0.0925	0.0181	01:36:36	Yes
2	0.59	0.59	0.0733	0.0941	0.0185	01:37:05	Yes
Mean:	0.58	0.58	0.0725				
SD :	0.010	0.010	0.0011				
%RSD:	1.7	1.7	1.5251				

Element: Hg Seq. No.: 62 AS Loc.: 53 Date: 06/24/2006  
 Sample ID: 0606374-08

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.06	0.06	0.0126	0.0334	0.0062	01:38:28	Yes
2	0.05	0.05	0.0118	0.0326	0.0061	01:38:57	Yes
Mean:	0.05	0.05	0.0122				
SD :	0.005	0.005	0.0006				
%RSD:	10.1	10.1	5.0195				

Element: Hg Seq. No.: 63 AS Loc.: 54 Date: 06/24/2006  
 Sample ID: 0606374-09

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.56	0.56	0.0699	0.0907	0.0177	01:40:20	Yes
2	0.54	0.54	0.0680	0.0888	0.0173	01:40:50	Yes
Mean:	0.55	0.55	0.0690				
SD :	0.012	0.012	0.0013				
%RSD:	2.1	2.1	1.9372				

Element: Hg Seq. No.: 64 AS Loc.: 55 Date: 06/24/2006  
 Sample ID: 0606374-10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.04	0.04	0.0103	0.0311	0.0054	01:42:13	Yes
2	0.02	0.02	0.0089	0.0297	0.0052	01:42:42	Yes
Mean:	0.03	0.03	0.0096				
SD :	0.009	0.009	0.0010				
%RSD:	28.1	28.1	10.1470				

Element: Hg Seq. No.: 65 AS Loc.: 56 Date: 06/24/2006  
 Sample ID: BF62321-dup1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.09	0.09	0.0159	0.0367	0.0066	01:44:06	Yes
2	0.08	0.08	0.0152	0.0360	0.0066	01:44:35	Yes
Mean:	0.08	0.08	0.0155				
SD :	0.004	0.004	0.0005				
%RSD:	5.4	5.4	3.2779				

Element: Hg Seq. No.: 66 AS Loc.: 57 Date: 06/24/2006  
 Sample ID: BF62321-ms1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.04	3.04	0.3525	0.3733	0.0755	01:46:00	Yes
2	3.03	3.03	0.3511	0.3719	0.0752	01:46:29	Yes

Mean: 3.03 3.03 0.3518  
 SD : 0.009 0.009 0.0010  
 %RSD: 0.3 0.3 0.2811

1015

Element: Hg Seq. No.: 67 AS Loc.: 58 Date: 06/24/2006  
 Sample ID: BF62321-msd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.19	4.19	0.4840	0.5049	0.1004	01:47:54	Yes
2	4.11	4.11	0.4750	0.4959	0.0894	01:48:23	Yes
Mean:	4.15	4.15	0.4795				
SD :	0.056	0.056	0.0064				
%RSD:	1.3	1.3	1.3266				

1505

Element: Hg Seq. No.: 68 AS Loc.: 4 Date: 06/24/2006  
 Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.00	3.00	0.3478	0.3687	0.0744	01:49:48	Yes
2	2.98	2.98	0.3456	0.3664	0.0748	01:50:17	Yes
Mean:	2.99	2.99	0.3467				
SD :	0.014	0.014	0.0016				
%RSD:	0.5	0.5	0.4515				

QC value within specified limits.

Element: Hg Seq. No.: 69 AS Loc.: 1 Date: 06/24/2006  
 Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.06	-0.06	-0.0013	0.0195	0.0035	01:51:42	Yes
2	-0.07	-0.07	-0.0024	0.0184	0.0034	01:52:11	Yes
Mean:	-0.07	-0.07	-0.0018				
SD :	0.007	0.007	0.0008				
%RSD:	10.1	10.1	43.7580				

QC value within specified limits.

Element: Hg Seq. No.: 70 AS Loc.: 59 Date: 06/24/2006  
 Sample ID: BF62321-sd1 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.17	-0.17	-0.0137	0.0071	0.0015	01:53:35	Yes
2	-0.18	-0.18	-0.0141	0.0067	0.0014	01:54:04	Yes
Mean:	-0.18	-0.18	-0.0139				
SD :	0.003	0.003	0.0003				
%RSD:	1.5	1.5	2.1206				

W

Element: Hg Seq. No.: 71 AS Loc.: 60 Date: 06/24/2006  
 Sample ID: BF62321-pds1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.11	3.11	0.3607	0.3815	0.0771	01:55:30	Yes
2	3.10	3.10	0.3597	0.3806	0.0772	01:56:00	Yes
Mean:	3.11	3.11	0.3602				

1045

SD : 0.006 0.006 0.0006  
 %RSD: 0.2 0.2 0.1790

Element: Hg Seq. No.: 72 AS Loc.: 61 Date: 06/24/2006  
 Sample ID: 0606374-11

Repl #	Sample Conc µg/L	Stnd Conc µg/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	9.96	9.96	1.1412	1.1621	0.2350	01:57:27	Yes
2	9.90	9.90	1.1346	1.1554	0.2338	01:57:56	Yes
Mean:	9.93	9.93	1.1379				
SD :	0.041	0.041	0.0047				
%RSD:	0.4	0.4	0.4144				

Element: Hg Seq. No.: 73 AS Loc.: 62 Date: 06/24/2006  
 Sample ID: 0606374-12

Repl #	Sample Conc µg/L	Stnd Conc µg/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.08	-0.08	-0.0026	0.0182	0.0035	01:59:23	Yes
2	-0.08	-0.08	-0.0030	0.0178	0.0033	01:59:52	Yes
Mean:	-0.08	-0.08	-0.0028				
SD :	0.002	0.002	0.0002				
%RSD:	2.7	2.7	8.6333				

Element: Hg Seq. No.: 74 AS Loc.: 63 Date: 06/24/2006  
 Sample ID: 0606374-13

Repl #	Sample Conc µg/L	Stnd Conc µg/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.11	0.11	0.0190	0.0398	0.0071	02:01:15	Yes
2	0.08	0.08	0.0156	0.0364	0.0069	02:01:44	Yes
Mean:	0.10	0.10	0.0173				
SD :	0.021	0.021	0.0024				
%RSD:	21.8	21.8	14.0698				

Element: Hg Seq. No.: 75 AS Loc.: 64 Date: 06/24/2006  
 Sample ID: 0606374-14

Repl #	Sample Conc µg/L	Stnd Conc µg/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.07	-0.07	-0.0022	0.0186	0.0035	02:03:06	Yes
2	-0.07	-0.07	-0.0021	0.0187	0.0035	02:03:36	Yes
Mean:	-0.07	-0.07	-0.0022				
SD :	0.001	0.001	0.0001				
%RSD:	1.0	1.0	3.7383				

Element: Hg Seq. No.: 76 AS Loc.: 65 Date: 06/24/2006  
 Sample ID: BF62321-dup2

Repl #	Sample Conc µg/L	Stnd Conc µg/L	Blk Corr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.03	-0.03	0.0026	0.0234	0.0041	02:04:56	Yes
2	-0.05	-0.05	0.0009	0.0217	0.0039	02:05:25	Yes
Mean:	-0.04	-0.04	0.0017				
SD :	0.010	0.010	0.0012				
%RSD:	27.2	27.2	67.9284				

Element: Hg Seq. No.: 77 AS Loc.: 66 Date: 06/24/2006  
 Sample ID: BF62321-ms2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.00	3.00	0.3484	0.3692	0.0746	02:06:46	Yes
2	3.01	3.01	0.3494	0.3702	0.0747	02:07:15	Yes
Mean:	3.01	3.01	0.3489				
SD :	0.006	0.006	0.0007				
%RSD:	0.2	0.2	0.2013				

1005

Element: Hg Seq. No.: 78 AS Loc.: 67 Date: 06/24/2006  
 Sample ID: BF62321-msd2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.01	3.01	0.3491	0.3699	0.0746	02:08:37	Yes
2	3.00	3.00	0.3485	0.3693	0.0745	02:09:07	Yes
Mean:	3.01	3.01	0.3488				
SD :	0.004	0.004	0.0004				
%RSD:	0.1	0.1	0.1259				

05

Element: Hg Seq. No.: 79 AS Loc.: 68 Date: 06/24/2006  
 Sample ID: BF62321-sd2 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.20	-0.20	-0.0162	0.0046	0.0010	02:10:29	Yes
2	-0.20	-0.20	-0.0172	0.0036	0.0010	02:10:58	Yes
Mean:	-0.20	-0.20	-0.0167				
SD :	0.006	0.006	0.0007				
%RSD:	3.1	3.1	4.2986				

NX

Element: Hg Seq. No.: 80 AS Loc.: 4 Date: 06/24/2006  
 Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.97	2.97	0.3442	0.3650	0.0742	02:12:22	Yes
2	2.95	2.95	0.3428	0.3636	0.0744	02:12:52	Yes
Mean:	2.96	2.96	0.3435				
SD :	0.009	0.009	0.0010				
%RSD:	0.3	0.3	0.2956				

QC value within specified limits. ✓

Element: Hg Seq. No.: 81 AS Loc.: 1 Date: 06/24/2006  
 Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.09	-0.09	-0.0036	0.0172	0.0032	02:14:16	Yes
2	-0.09	-0.09	-0.0040	0.0168	0.0032	02:14:46	Yes
Mean:	-0.09	-0.09	-0.0038				
SD :	0.003	0.003	0.0003				
%RSD:	3.0	3.0	7.8120				

QC value within specified limits. ✓

Element: Hg Seq. No.: 82 AS Loc.: 69 Date: 06/24/2006  
 Sample ID: BF62321-pds2

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.06	3.06	0.3543	0.3752	0.0758	02:16:09	Yes
2	3.06	3.06	0.3553	0.3761	0.0759	02:16:38	Yes
Mean:	3.06	3.06	0.3548				
SD :	0.006	0.006	0.0007				
%RSD:	0.2	0.2	0.1867				

Element: Hg Seq. No.: 83 AS Loc.: 70 Date: 06/24/2006  
 Sample ID: 0606375-02

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	0.0011	0.0219	0.0039	02:18:01	Yes
2	-0.05	-0.05	0.0001	0.0209	0.0038	02:18:30	Yes
Mean:	-0.05	-0.05	0.0006				
SD :	0.006	0.006	0.0007				
%RSD:	13.3	13.3	121.0154				

Element: Hg Seq. No.: 84 AS Loc.: 71 Date: 06/24/2006  
 Sample ID: 0606374-15

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.15	0.15	0.0234	0.0442	0.0083	02:19:54	Yes
2	0.14	0.14	0.0225	0.0433	0.0082	02:20:23	Yes
Mean:	0.15	0.15	0.0229				
SD :	0.006	0.006	0.0007				
%RSD:	4.0	4.0	2.9214				

Element: Hg Seq. No.: 85 AS Loc.: 72 Date: 06/24/2006  
 Sample ID: 0606374-16

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.05	-0.05	0.0005	0.0213	0.0038	02:21:48	Yes
2	-0.06	-0.06	-0.0011	0.0197	0.0037	02:22:18	Yes
Mean:	-0.06	-0.06	-0.0003				
SD :	0.010	0.010	0.0011				
%RSD:	16.9	16.9	361.5454				

Element: Hg Seq. No.: 86 AS Loc.: 73 Date: 06/24/2006  
 Sample ID: 0606373-20

Repl #	SampleConc µg/L	StndConc µg/L	BlncCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.05	0.05	0.0123	0.0331	0.0061	02:23:43	Yes
2	0.03	0.03	0.0097	0.0305	0.0059	02:24:12	Yes
Mean:	0.04	0.04	0.0110				
SD :	0.016	0.016	0.0018				
%RSD:	37.8	37.8	16.7227				

Element: Hg Seq. No.: 87 AS Loc.: 74 Date: 06/24/2006  
 Sample ID: 0606373-21

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.06	-0.06	-0.0003	0.0205	0.0038	02:25:37	Yes
2	-0.04	-0.04	0.0011	0.0219	0.0039	02:26:07	Yes
Mean:	-0.05	-0.05	0.0004				
SD :	0.009	0.009	0.0010				
%RSD:	17.2	17.2	244.0674				

PD

Element: Hg Seq. No.: 88 AS Loc.: 75 Date: 06/24/2006  
 Sample ID: BF62231-blk1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.13	-0.13	-0.0088	0.0120	0.0021	02:27:32	Yes
2	-0.15	-0.15	-0.0107	0.0101	0.0020	02:28:01	Yes
Mean:	-0.14	-0.14	-0.0098				
SD :	0.012	0.012	0.0013				
%RSD:	8.5	8.5	13.7406				

PD

Element: Hg Seq. No.: 89 AS Loc.: 76 Date: 06/24/2006  
 Sample ID: BF62231-bs1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.89	2.89	0.3355	0.3563	0.0726	02:29:27	Yes
2	2.88	2.88	0.3340	0.3548	0.0726	02:29:56	Yes
Mean:	2.88	2.88	0.3348				
SD :	0.009	0.009	0.0010				
%RSD:	0.3	0.3	0.3100				

9.65

Element: Hg Seq. No.: 90 AS Loc.: 77 Date: 06/24/2006  
 Sample ID: BF62231-bsd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.89	2.89	0.3358	0.3566	0.0728	02:31:22	Yes
2	2.87	2.87	0.3330	0.3538	0.0730	02:31:52	Yes
Mean:	2.88	2.88	0.3344				
SD :	0.017	0.017	0.0020				
%RSD:	0.6	0.6	0.5900				

9.65

Element: Hg Seq. No.: 91 AS Loc.: 78 Date: 06/24/2006  
 Sample ID: BF62231-srml x10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.44	2.44	0.2842	0.3050	0.0616	02:33:16	Yes
2	2.43	2.43	0.2831	0.3039	0.0616	02:33:45	Yes
Mean:	2.43	2.43	0.2837				
SD :	0.007	0.007	0.0008				
%RSD:	0.3	0.3	0.2735				

$\frac{2.43(40)(10)}{0.6} = 1.62$

Element: Hg Seq. No.: 92 AS Loc.: 4 Date: 06/24/2006  
 Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.07	3.07	0.3555	0.3763	0.0770	02:35:08	Yes

2            3.05            3.05            0.3534    0.3742    0.0768    02:35:37 Yes  
 Mean:       3.06            3.06            0.3544  
 SD :        0.013           0.013           0.0015  
 %RSD:       0.4            0.4            0.4289  
 QC value within specified limits.

Element: Hg    Seq. No.: 93            AS Loc.: 1    Date: 06/24/2006  
 Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.13	-0.13	-0.0082	0.0126	0.0024	02:37:01	Yes
2	-0.12	-0.12	-0.0080	0.0128	0.0025	02:37:30	Yes
Mean:	-0.12	-0.12	-0.0081				
SD :	0.001	0.001	0.0002				
%RSD:	1.1	1.1	1.8539				

QC value within specified limits.

Element: Hg    Seq. No.: 94            AS Loc.: 79    Date: 06/24/2006  
 Sample ID: 0606357-05

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.09	-0.09	-0.0043	0.0166	0.0032	02:38:52	Yes
2	-0.11	-0.11	-0.0065	0.0143	0.0030	02:39:21	Yes
Mean:	-0.10	-0.10	-0.0054				
SD :	0.014	0.014	0.0016				
%RSD:	13.8	13.8	29.4783				

Element: Hg    Seq. No.: 95            AS Loc.: 80    Date: 06/24/2006  
 Sample ID: BF62231-dup1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.08	-0.08	-0.0036	0.0173	0.0033	02:40:41	Yes
2	-0.09	-0.09	-0.0040	0.0168	0.0032	02:41:11	Yes
Mean:	-0.09	-0.09	-0.0038				
SD :	0.003	0.003	0.0003				
%RSD:	3.1	3.1	8.0048				

Element: Hg    Seq. No.: 96            AS Loc.: 81    Date: 06/24/2006  
 Sample ID: BF62231-ms1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.93	2.93	0.3400	0.3608	0.0738	02:42:31	Yes
2	2.93	2.93	0.3399	0.3607	0.0741	02:43:01	Yes
Mean:	2.93	2.93	0.3400				
SD :	0.001	0.001	0.0001				
%RSD:							

Element: Hg    Seq. No.: 97            AS Loc.: 82    Date: 06/24/2006  
 Sample ID: BF62231-msd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.95	2.95	0.3418	0.3626	0.0745	02:44:22	Yes
2	2.95	2.95	0.3420	0.3628	0.0747	02:44:51	Yes



Mean: 2.95 2.95 0.3419  
 SD : 0.001 0.001 0.0001  
 %RSD:

985

Element: Hg Seq. No.: 98 AS Loc.: 83 Date: 06/24/2006  
 Sample ID: BF62231-sd1 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.20	-0.20	-0.0166	0.0042	0.0008	02:46:14	Yes
2	-0.21	-0.21	-0.0173	0.0035	0.0008	02:46:43	Yes
Mean:	-0.20	-0.20	-0.0169				
SD :	0.004	0.004	0.0005				
%RSD:	2.2	2.2	2.9991				

PD

Element: Hg Seq. No.: 99 AS Loc.: 84 Date: 06/24/2006  
 Sample ID: BF62231-pds1

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.07	3.07	0.3565	0.3773	0.0770	02:48:06	Yes
2	3.04	3.04	0.3528	0.3736	0.0769	02:48:35	Yes
Mean:	3.06	3.06	0.3546				
SD :	0.023	0.023	0.0026				
%RSD:	0.8	0.8	0.7419				

1025

Element: Hg Seq. No.: 100 AS Loc.: 4 Date: 06/24/2006  
 Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.07	3.07	0.3558	0.3766	0.0768	02:49:58	Yes
2	3.04	3.04	0.3531	0.3739	0.0771	02:50:27	Yes
Mean:	3.06	3.06	0.3544				
SD :	0.017	0.017	0.0019				
%RSD:	0.6	0.6	0.5424				

QC value within specified limits.

✓

Element: Hg Seq. No.: 101 AS Loc.: 1 Date: 06/24/2006  
 Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.12	-0.12	-0.0078	0.0130	0.0024	02:51:51	Yes
2	-0.13	-0.13	-0.0084	0.0124	0.0024	02:52:21	Yes
Mean:	-0.12	-0.12	-0.0081				
SD :	0.003	0.003	0.0004				
%RSD:	2.7	2.7	4.7927				

QC value within specified limits.

✓

# Metals Logbooks

**ESS LABORATORY**  
**METALS PREP LOGBOOK**

ANALYST: *WKS*  
 DATE: *6/29/11*  
 TIME: *13:00*  
 Batch ID: *063317*

HNO<sub>3</sub> Reagent - AR#: *0605018*  
 1:1 HCl Reagent- WFR#: *060611C*  
 1:1 HNO<sub>3</sub> Reagent- WFR#: *060520E*  
 H<sub>2</sub>O<sub>2</sub> Reagent- AR#: *060721R*

Hot Plate Temp (°C)  
 1/5# *98*

Sample ID	matrix	pH	Initial wg/vol	Final wg/vol	QC ID/Lot #	QC wg/vol	Method	Hot Plate Number	Comments
<i>063317-01</i>	<i>S</i>	<i>m</i>	<i>1.833</i>	<i>1m-1</i>	<i>m</i>	<i>m</i>	<i>3050</i>	<i>105#</i>	
<i>063317-02</i>			<i>1.963</i>						
<i>063317-03</i>			<i>1.855</i>						
<i>063317-04</i>			<i>1.793</i>						
<i>063317-05</i>			<i>1.803</i>						
<i>063317-06</i>			<i>1.885</i>						
<i>063317-07</i>			<i>1.793</i>						
<i>063317-08</i>			<i>1.773</i>						
<i>063317-09</i>			<i>1.763</i>						
<i>063317-10</i>	<i>S</i>	<i>m</i>	<i>1.753</i>	<i>1m-1</i>	<i>m</i>	<i>m</i>	<i>3050</i>	<i>105#</i>	

CONTROL# 30.0014-0603A Page \_\_\_\_\_

MATRIX KEY: AQ = AQUEOUS, S = SOIL, O = OIL, F = FILTER, D = SLUDGE



**ESS LABORATORY**  
**METALS PREP LOGBOOK**

ANALYST: WJG  
 DATE: 6/23/11  
 TIME: 14:30  
 Batch ID: 0603300

HNO<sub>3</sub> Reagent - AR#: 0605019  
 1:1 HCl Reagent- WR#: 060616  
 1:1 HNO<sub>3</sub> Reagent- WR#: 0605306  
 H<sub>2</sub>O<sub>2</sub> Reagent- AR#: 0607213

Hot Plate	Temp (°C)
WB#	96

Sample ID	matrix	pH	Initial wgt/vol	Final wgt/vol	QC ID/Lot #	QC wgt/vol	Method	Hot Plate Number	Comments
060330-01	S	m	m	1m1	6E04037	m	3m1	105#	
-051					6E04037	0.5m1			
-051					6A11050	m			
06379-01			1.86g						
-02			1.81g						
-03			2.54g						
-04			1.80g						
-05			1.87g						
-06			1.76g						
-07			3.16g						
-08			1.77g						
-09			2.29g						
-10			1.83g						
060330-01			1.78g						
-051			1.90g		6E04037	0.5m1			
06379-11			2.02g						
-10	S	m	1.76g	1.00m1		m	3m1	105#	

CONTROL# 30.0014-0603A Page \_\_\_\_\_

MATRIX KEY: AQ = AQUEOUS, S = SOIL, O = OIL, F = FILTER, D = SLUDGE



**ESS Laboratory**  
**Mercury Soils Prep Logbook**

Batch ID: BFB318

Reagent IDs:

Cal std ID\*: 6F2020

Analyst: MBS

Aqua Regia W206633C

NaCl-NH<sub>2</sub>OH\*HCl W20665038

Date: 6/23/06

KMnO<sub>4</sub> W2066692C

ICV std ID\*\*: 6F2021

Sample ID	Wgt (g)	Quality Control		COMMENTS	Final Vol (ml)	Bath #	Temp. (°C)	Time in	Time out
		ID/Lot #	Spike wt/vol						
BFB318-BL1	~	~	~		40	1152	95	17:00	17:30
-BS1	~	6F2021	0.12						
-BS2	~	6F2021	0.12						
-Sam1	0.63	6A1105C	~						
06361-01	0.64	~	~						
06375-01	0.65	~	~						
-02	0.63	~	~						
-03	0.63	~	~						
-04	0.63	~	~						
-05	0.65	~	~						
-06	0.63	~	~						
-07	0.63	~	~						
-08	0.63	~	~						
BFB318-0001	0.63	~	~						
-ms1	0.63	6F2021	0.12						
-ms2	0.65	6F2021	0.12						
06373-07	0.66	~	~						
-10	0.67	~	~						
MBS 6/23/06 -11	0.73	~	~						
-12	0.63	~	~						
-13	0.63	~	~						
-14	0.63	~	~						
-15	0.63	~	~						
-16	0.68	~	~						
-17	0.63	~	~		40	1152	95	17:00	17:30

\* Calibration standards are prepared daily at 0.0, 0.5, 1.0, 3.0, and 5.0 ppb. See SOP for preparation instructions.

\*\*ICV is prepared daily at a concentration of 2.0 ppb. See SOP for preparation instructions.





**ESS Laboratory**

**Mercury Soils Prep Logbook**

Batch ID: BF63321

Reagent IDs:

Cal std ID\*: 6F30001

Analyst: MBS

Aqua Regia W0060632C

NaCl-NH<sub>2</sub>OH\*HCl W0060503B

Date: 6/23/06

KMnO<sub>4</sub> W0060602C

ICV std ID\*\*: 6F30001

Sample ID	Wgt (g)	Quality Control		COMMENTS	Final Vol (ml)	Bath #	Temp. (°C)	Time in	Time out
		ID/Lot #	Spike wt/vol						
BF63321-BL01	~	~	~		40	WB#3	95	17:00	17:30
-01		6F30001	0.12						
-02		6F30001	0.12						
-SP01	0.63	6A1056	~						
06374-01	0.625	~	~						
-02	0.625								
-03	0.663								
-04	0.625								
-05	0.63								
-06	0.63								
-07	1.03								
-08	0.63								
-09	1.043								
-10	0.63								
BF63321-0201	0.663	~	~						
-01	0.63	6F30001	0.12						
-02	0.643	6F30001	0.12						
06374-11	0.753	~	~						
-12	0.623								
-13	0.63								
-14	0.643								
BF63321-0301	0.633	~	~						
-01	0.63	6F30001	0.12						
-02	0.63	6F30001	0.12						
06375-02	0.643	~	~		40	WB#3	95	17:00	17:30

\* Calibration standards are prepared daily at 0.0, 0.5, 1.0, 3.0, and 5.0 ppb. See SOP for preparation instructions.

\*\*ICV is prepared daily at a concentration of 2.0 ppb. See SOP for preparation instructions.





**PriorityPollutnT™/CLP Inorganic Soils - Hot Plate Digestions**

Lot No. D045540

Revised: 09/12/05

Method 3050 HNO<sub>3</sub>, H<sub>2</sub>O<sub>2</sub>, HCl

Parameter	Total Concentration <sup>1</sup>	Certified Value <sup>2</sup>	Performance Acceptance Limits™ <sup>3</sup>
<b>TRACE METALS PriorityPollutnT™ (Catalog No. 540)</b>	<b>mg/Kg</b>	<b>mg/Kg</b>	<b>mg/Kg</b>
Aluminum	55200*	7120	4120 - 10100
Antimony	241	86.2	D.L. - 192
Arsenic	171	146	116 - 176
Barium	1030*	351	288 - 414
Beryllium	70.4	62.2	51.0 - 73.4
Boron	132	97.2	54.3 - 140
Cadmium	105	91.9	74.9 - 109
Calcium	10100*	3900	3080 - 4720
Chromium	201	176	138 - 214
Cobalt	65.7	58.5	47.8 - 69.2
Copper	77.7	70.0	57.5 - 82.6
Iron	24400*	13900	6930 - 20800
Lead	86.9	68.1	54.9 - 81.3
Magnesium	3780*	2180	1680 - 2680
Manganese	479	210	168 - 252
Mercury	1.89	1.77	1.21 - 2.34
Molybdenum	33.2	26.5	20.9 - 32.1
Nickel	99.6	84.0	68.5 - 99.5
Potassium	32500*	2440	1700 - 3170
Selenium	83.0	73.0	55.1 - 90.8
Silver	101	93.0	57.0 - 129
Sodium	15200	697	388 - 1010
Strontium	241	35.7	28.5 - 42.9
Thallium	89.6	77.8	58.8 - 96.8
Tin	110	92.2	64.4 - 120
Titanium	3100*	283	112 - 454
Vanadium	195	148	111 - 185
Zinc	461	402	319 - 485

6A11056

Method 3050 HNO<sub>3</sub>, H<sub>2</sub>O<sub>2</sub>

Parameter	Total Concentration <sup>1</sup>	Certified Value <sup>2</sup>	Performance Acceptance Limits™ <sup>3</sup>
<b>TRACE METALS PriorityPollutnT™ (Catalog No. 540)</b>	<b>mg/Kg</b>	<b>mg/Kg</b>	<b>mg/Kg</b>
Aluminum	55200*	6280	3300 - 9260
Antimony	241	78.5	D.L. - 216
Arsenic	171	146	112 - 180
Barium	1030*	339	266 - 412
Beryllium	70.4	59.3	45.8 - 72.8
Boron	132	86.5	57.0 - 116
Cadmium	105	92.8	73.9 - 112
Calcium	10100*	3800	2870 - 4730
Chromium	201	172	135 - 209
Cobalt	65.7	54.5	43.8 - 65.2
Copper	77.7	67.0	53.8 - 80.2
Iron	24400*	12300	6800 - 17700
Lead	86.9	67.5	53.1 - 81.9
Magnesium	3780*	2110	1560 - 2660
Manganese	479	196	157 - 235
Mercury	1.89	1.77	1.21 - 2.34
Molybdenum	33.2	26.0	18.8 - 33.2
Nickel	99.6	80.0	65.0 - 95.0
Potassium	32500*	2310	1660 - 2950
Selenium	83.0	70.5	53.3 - 87.7
Silver	101	89.9	27.9 - 152
Sodium	15200	662	481 - 843
Strontium	241	33.2	25.3 - 41.0
Thallium	89.6	82.1	62.6 - 102
Tin	110	85.5	39.3 - 132
Titanium	3100*	218	83.6 - 352
Vanadium	195	136	103 - 169
Zinc	461	380	300 - 460

# Volatile Organics Data Package

LL

# Volatile Organics Sample Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3101  
Date Sampled: 06/21/06 10:20  
Percent Solids: 24  
Initial Volume: 3.6  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-01  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	28.9	1	06/23/06
1,1,1-Trichloroethane	ND	ug/Kg dry	28.9	1	06/23/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	28.9	1	06/23/06
1,1,2-Trichloroethane	ND	ug/Kg dry	28.9	1	06/23/06
<b>1,1-Dichloroethane</b>	<b>30.8</b>	ug/Kg dry	28.9	1	06/23/06
1,1-Dichloroethene	ND	ug/Kg dry	28.9	1	06/23/06
1,1-Dichloropropene	ND	ug/Kg dry	28.9	1	06/23/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	28.9	1	06/23/06
1,2,3-Trichloropropane	ND	ug/Kg dry	28.9	1	06/23/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	28.9	1	06/23/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	28.9	1	06/23/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	28.9	1	06/23/06
1,2-Dibromoethane	ND	ug/Kg dry	28.9	1	06/23/06
1,2-Dichlorobenzene	ND	ug/Kg dry	28.9	1	06/23/06
1,2-Dichloroethane	ND	ug/Kg dry	28.9	1	06/23/06
1,2-Dichloropropane	ND	ug/Kg dry	28.9	1	06/23/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	28.9	1	06/23/06
1,3-Dichlorobenzene	ND	ug/Kg dry	28.9	1	06/23/06
1,3-Dichloropropane	ND	ug/Kg dry	28.9	1	06/23/06
1,4-Dichlorobenzene	ND	ug/Kg dry	28.9	1	06/23/06
1,4-Dioxane - Screen	ND	ug/Kg dry	1450	1	06/23/06
1-Chlorohexane	ND	ug/Kg dry	28.9	1	06/23/06
2,2-Dichloropropane	ND	ug/Kg dry	28.9	1	06/23/06
2-Butanone	ND	ug/Kg dry	289	1	06/23/06
2-Chlorotoluene	ND	ug/Kg dry	28.9	1	06/23/06
2-Hexanone	ND	ug/Kg dry	289	1	06/23/06
4-Chlorotoluene	ND	ug/Kg dry	28.9	1	06/23/06
4-Isopropyltoluene	ND	ug/Kg dry	28.9	1	06/23/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	289	1	06/23/06
<b>Acetone</b>	<b>522</b>	ug/Kg dry	289	1	06/23/06
Benzene	ND	ug/Kg dry	28.9	1	06/23/06
Bromobenzene	ND	ug/Kg dry	28.9	1	06/23/06
Bromochloromethane	ND	ug/Kg dry	28.9	1	06/23/06
Bromodichloromethane	ND	ug/Kg dry	28.9	1	06/23/06
Bromoform	ND	ug/Kg dry	28.9	1	06/23/06

350

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3101  
Date Sampled: 06/21/06 10:20  
Percent Solids: 24  
Initial Volume: 3.6  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-01  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	57.9	1	06/23/06
Carbon Disulfide	ND	ug/Kg dry	28.9	1	06/23/06
Carbon Tetrachloride	ND	ug/Kg dry	28.9	1	06/23/06
Chlorobenzene	ND	ug/Kg dry	28.9	1	06/23/06
Chloroethane	ND	ug/Kg dry	57.9	1	06/23/06
Chloroform	ND	ug/Kg dry	28.9	1	06/23/06
Chloromethane	ND	ug/Kg dry	57.9	1	06/23/06
<b>cis-1,2-Dichloroethene</b>	<b>144</b>	ug/Kg dry	28.9	1	06/23/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	28.9	1	06/23/06
Dibromochloromethane	ND	ug/Kg dry	28.9	1	06/23/06
Dibromomethane	ND	ug/Kg dry	28.9	1	06/23/06
Dichlorodifluoromethane	ND	ug/Kg dry	57.9	1	06/23/06
Diethyl Ether	ND	ug/Kg dry	28.9	1	06/23/06
Di-isopropyl ether	ND	ug/Kg dry	28.9	1	06/23/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	28.9	1	06/23/06
Ethylbenzene	ND	ug/Kg dry	28.9	1	06/23/06
Hexachlorobutadiene	ND	ug/Kg dry	28.9	1	06/23/06
Isopropylbenzene	ND	ug/Kg dry	28.9	1	06/23/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	28.9	1	06/23/06
Methylene Chloride	ND	ug/Kg dry	145	1	06/23/06
Naphthalene	ND	ug/Kg dry	28.9	1	06/23/06
n-Butylbenzene	ND	ug/Kg dry	28.9	1	06/23/06
n-Propylbenzene	ND	ug/Kg dry	28.9	1	06/23/06
sec-Butylbenzene	ND	ug/Kg dry	28.9	1	06/23/06
Styrene	ND	ug/Kg dry	28.9	1	06/23/06
tert-Butylbenzene	ND	ug/Kg dry	28.9	1	06/23/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	28.9	1	06/23/06
Tetrachloroethene	ND	ug/Kg dry	28.9	1	06/23/06
Tetrahydrofuran	ND	ug/Kg dry	28.9	1	06/23/06
Toluene	ND	ug/Kg dry	28.9	1	06/23/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	28.9	1	06/23/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	28.9	1	06/23/06
Trichloroethene	ND	ug/Kg dry	28.9	1	06/23/06
Trichlorofluoromethane	ND	ug/Kg dry	28.9	1	06/23/06
<b>Vinyl Chloride</b>	<b>E 1620</b>	ug/Kg dry	57.9	1	06/23/06
Xylene O	ND	ug/Kg dry	<del>28.9</del> <b>2381</b>	1	06/23/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3101  
Date Sampled: 06/21/06 10:20  
Percent Solids: 24  
Initial Volume: 3.6  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-01  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	57.9	1	06/23/06
Xylenes (Total)	ND	ug/Kg dry	86.8		06/23/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	94 %		70-130
Surrogate: 4-Bromofluorobenzene	79 %		70-130
Surrogate: Dibromofluoromethane	103 %		70-130
Surrogate: Toluene-d8	112 %		70-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3104  
Date Sampled: 06/21/06 10:50  
Percent Solids: 75  
Initial Volume: 6.6  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-02  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	5.1	1	06/23/06
1,1,1-Trichloroethane	ND	ug/Kg dry	5.1	1	06/23/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	5.1	1	06/23/06
1,1,2-Trichloroethane	ND	ug/Kg dry	5.1	1	06/23/06
1,1-Dichloroethane	ND	ug/Kg dry	5.1	1	06/23/06
1,1-Dichloroethene	ND	ug/Kg dry	5.1	1	06/23/06
1,1-Dichloropropene	ND	ug/Kg dry	5.1	1	06/23/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	5.1	1	06/23/06
1,2,3-Trichloropropane	ND	ug/Kg dry	5.1	1	06/23/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	5.1	1	06/23/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	5.1	1	06/23/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	5.1	1	06/23/06
1,2-Dibromoethane	ND	ug/Kg dry	5.1	1	06/23/06
1,2-Dichlorobenzene	ND	ug/Kg dry	5.1	1	06/23/06
1,2-Dichloroethane	ND	ug/Kg dry	5.1	1	06/23/06
1,2-Dichloropropane	ND	ug/Kg dry	5.1	1	06/23/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	5.1	1	06/23/06
1,3-Dichlorobenzene	ND	ug/Kg dry	5.1	1	06/23/06
1,3-Dichloropropane	ND	ug/Kg dry	5.1	1	06/23/06
1,4-Dichlorobenzene	ND	ug/Kg dry	5.1	1	06/23/06
1,4-Dioxane - Screen	ND	ug/Kg dry	253	1	06/23/06
1-Chlorohexane	ND	ug/Kg dry	5.1	1	06/23/06
2,2-Dichloropropane	ND	ug/Kg dry	5.1	1	06/23/06
2-Butanone	ND	ug/Kg dry	50.5	1	06/23/06
2-Chlorotoluene	ND	ug/Kg dry	5.1	1	06/23/06
2-Hexanone	ND	ug/Kg dry	50.5	1	06/23/06
4-Chlorotoluene	ND	ug/Kg dry	5.1	1	06/23/06
4-Isopropyltoluene	ND	ug/Kg dry	5.1	1	06/23/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	50.5	1	06/23/06
Acetone	ND	ug/Kg dry	50.5	1	06/23/06
Benzene	ND	ug/Kg dry	5.1	1	06/23/06
Bromobenzene	ND	ug/Kg dry	5.1	1	06/23/06
Bromochloromethane	ND	ug/Kg dry	5.1	1	06/23/06
Bromodichloromethane	ND	ug/Kg dry	5.1	1	06/23/06
Bromoform	ND	ug/Kg dry	5.1	1	06/23/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3104  
Date Sampled: 06/21/06 10:50  
Percent Solids: 75  
Initial Volume: 6.6  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-02  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	10.1	1	06/23/06
Carbon Disulfide	ND	ug/Kg dry	5.1	1	06/23/06
Carbon Tetrachloride	ND	ug/Kg dry	5.1	1	06/23/06
Chlorobenzene	ND	ug/Kg dry	5.1	1	06/23/06
Chloroethane	ND	ug/Kg dry	10.1	1	06/23/06
Chloroform	ND	ug/Kg dry	5.1	1	06/23/06
Chloromethane	ND	ug/Kg dry	10.1	1	06/23/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	5.1	1	06/23/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	5.1	1	06/23/06
Dibromochloromethane	ND	ug/Kg dry	5.1	1	06/23/06
Dibromomethane	ND	ug/Kg dry	5.1	1	06/23/06
Dichlorodifluoromethane	ND	ug/Kg dry	10.1	1	06/23/06
Diethyl Ether	ND	ug/Kg dry	5.1	1	06/23/06
Di-isopropyl ether	ND	ug/Kg dry	5.1	1	06/23/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	5.1	1	06/23/06
Ethylbenzene	ND	ug/Kg dry	5.1	1	06/23/06
Hexachlorobutadiene	ND	ug/Kg dry	5.1	1	06/23/06
Isopropylbenzene	ND	ug/Kg dry	5.1	1	06/23/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	5.1	1	06/23/06
Methylene Chloride	ND	ug/Kg dry	25.3	1	06/23/06
Naphthalene	ND	ug/Kg dry	5.1	1	06/23/06
n-Butylbenzene	ND	ug/Kg dry	5.1	1	06/23/06
n-Propylbenzene	ND	ug/Kg dry	5.1	1	06/23/06
sec-Butylbenzene	ND	ug/Kg dry	5.1	1	06/23/06
Styrene	ND	ug/Kg dry	5.1	1	06/23/06
tert-Butylbenzene	ND	ug/Kg dry	5.1	1	06/23/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	5.1	1	06/23/06
Tetrachloroethene	ND	ug/Kg dry	5.1	1	06/23/06
Tetrahydrofuran	ND	ug/Kg dry	5.1	1	06/23/06
Toluene	ND	ug/Kg dry	5.1	1	06/23/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	5.1	1	06/23/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	5.1	1	06/23/06
Trichloroethene	ND	ug/Kg dry	5.1	1	06/23/06
Trichlorofluoromethane	ND	ug/Kg dry	5.1	1	06/23/06
Vinyl Chloride	ND	ug/Kg dry	10.1	1	06/23/06
Xylene O	ND	ug/Kg dry	354	1	06/23/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3104  
Date Sampled: 06/21/06 10:50  
Percent Solids: 75  
Initial Volume: 6.6  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-02  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	10.1	1	06/23/06
Xylenes (Total)	ND	ug/Kg dry	15.2		06/23/06

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	94 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	93 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	100 %		70-130
<i>Surrogate: Toluene-d8</i>	95 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3001  
Date Sampled: 06/21/06 13:30  
Percent Solids: 80  
Initial Volume: 7.2  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-03  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	4.3	1	06/23/06
1,1,1-Trichloroethane	ND	ug/Kg dry	4.3	1	06/23/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	4.3	1	06/23/06
1,1,2-Trichloroethane	ND	ug/Kg dry	4.3	1	06/23/06
1,1-Dichloroethane	ND	ug/Kg dry	4.3	1	06/23/06
1,1-Dichloroethene	ND	ug/Kg dry	4.3	1	06/23/06
1,1-Dichloropropene	ND	ug/Kg dry	4.3	1	06/23/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	4.3	1	06/23/06
1,2,3-Trichloropropane	ND	ug/Kg dry	4.3	1	06/23/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	4.3	1	06/23/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	4.3	1	06/23/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	4.3	1	06/23/06
1,2-Dibromoethane	ND	ug/Kg dry	4.3	1	06/23/06
1,2-Dichlorobenzene	ND	ug/Kg dry	4.3	1	06/23/06
1,2-Dichloroethane	ND	ug/Kg dry	4.3	1	06/23/06
1,2-Dichloropropane	ND	ug/Kg dry	4.3	1	06/23/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	4.3	1	06/23/06
1,3-Dichlorobenzene	ND	ug/Kg dry	4.3	1	06/23/06
1,3-Dichloropropane	ND	ug/Kg dry	4.3	1	06/23/06
1,4-Dichlorobenzene	ND	ug/Kg dry	4.3	1	06/23/06
1,4-Dioxane - Screen	ND	ug/Kg dry	217	1	06/23/06
1-Chlorohexane	ND	ug/Kg dry	4.3	1	06/23/06
2,2-Dichloropropane	ND	ug/Kg dry	4.3	1	06/23/06
2-Butanone	ND	ug/Kg dry	43.4	1	06/23/06
2-Chlorotoluene	ND	ug/Kg dry	4.3	1	06/23/06
2-Hexanone	ND	ug/Kg dry	43.4	1	06/23/06
4-Chlorotoluene	ND	ug/Kg dry	4.3	1	06/23/06
4-Isopropyltoluene	ND	ug/Kg dry	4.3	1	06/23/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	43.4	1	06/23/06
Acetone	ND	ug/Kg dry	43.4	1	06/23/06
Benzene	ND	ug/Kg dry	4.3	1	06/23/06
Bromobenzene	ND	ug/Kg dry	4.3	1	06/23/06
Bromochloromethane	ND	ug/Kg dry	4.3	1	06/23/06
Bromodichloromethane	ND	ug/Kg dry	4.3	1	06/23/06
Bromoform	ND	ug/Kg dry	4.3	1	06/23/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3001  
Date Sampled: 06/21/06 13:30  
Percent Solids: 80  
Initial Volume: 7.2  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-03  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	8.7	1	06/23/06
Carbon Disulfide	ND	ug/Kg dry	4.3	1	06/23/06
Carbon Tetrachloride	ND	ug/Kg dry	4.3	1	06/23/06
Chlorobenzene	ND	ug/Kg dry	4.3	1	06/23/06
Chloroethane	ND	ug/Kg dry	8.7	1	06/23/06
Chloroform	ND	ug/Kg dry	4.3	1	06/23/06
Chloromethane	ND	ug/Kg dry	8.7	1	06/23/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	4.3	1	06/23/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	4.3	1	06/23/06
Dibromochloromethane	ND	ug/Kg dry	4.3	1	06/23/06
Dibromomethane	ND	ug/Kg dry	4.3	1	06/23/06
Dichlorodifluoromethane	ND	ug/Kg dry	8.7	1	06/23/06
Diethyl Ether	ND	ug/Kg dry	4.3	1	06/23/06
Di-isopropyl ether	ND	ug/Kg dry	4.3	1	06/23/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	4.3	1	06/23/06
Ethylbenzene	ND	ug/Kg dry	4.3	1	06/23/06
Hexachlorobutadiene	ND	ug/Kg dry	4.3	1	06/23/06
Isopropylbenzene	ND	ug/Kg dry	4.3	1	06/23/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	4.3	1	06/23/06
Methylene Chloride	ND	ug/Kg dry	21.7	1	06/23/06
Naphthalene	ND	ug/Kg dry	4.3	1	06/23/06
n-Butylbenzene	ND	ug/Kg dry	4.3	1	06/23/06
n-Propylbenzene	ND	ug/Kg dry	4.3	1	06/23/06
sec-Butylbenzene	ND	ug/Kg dry	4.3	1	06/23/06
Styrene	ND	ug/Kg dry	4.3	1	06/23/06
tert-Butylbenzene	ND	ug/Kg dry	4.3	1	06/23/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	4.3	1	06/23/06
Tetrachloroethene	ND	ug/Kg dry	4.3	1	06/23/06
Tetrahydrofuran	ND	ug/Kg dry	4.3	1	06/23/06
Toluene	ND	ug/Kg dry	4.3	1	06/23/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	4.3	1	06/23/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	4.3	1	06/23/06
Trichloroethene	ND	ug/Kg dry	4.3	1	06/23/06
Trichlorofluoromethane	ND	ug/Kg dry	4.3	1	06/23/06
Vinyl Chloride	ND	ug/Kg dry	8.7	1	06/23/06
Xylene O	ND	ug/Kg dry	357	1	06/23/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3001  
Date Sampled: 06/21/06 13:30  
Percent Solids: 80  
Initial Volume: 7.2  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-03  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	8.7	1	06/23/06
Xylenes (Total)	ND	ug/Kg dry	13.0		06/23/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	95 %		70-130
Surrogate: 4-Bromofluorobenzene	94 %		70-130
Surrogate: Dibromofluoromethane	100 %		70-130
Surrogate: Toluene-d8	96 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3004  
Date Sampled: 06/21/06 13:45  
Percent Solids: 47  
Initial Volume: 4.8  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-04  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	11.1	1	06/23/06
1,1,1-Trichloroethane	ND	ug/Kg dry	11.1	1	06/23/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	11.1	1	06/23/06
1,1,2-Trichloroethane	ND	ug/Kg dry	11.1	1	06/23/06
<b>1,1-Dichloroethane</b>	<b>28.5</b>	ug/Kg dry	11.1	1	06/23/06
1,1-Dichloroethene	ND	ug/Kg dry	11.1	1	06/23/06
1,1-Dichloropropene	ND	ug/Kg dry	11.1	1	06/23/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	11.1	1	06/23/06
1,2,3-Trichloropropane	ND	ug/Kg dry	11.1	1	06/23/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	11.1	1	06/23/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	11.1	1	06/23/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	11.1	1	06/23/06
1,2-Dibromoethane	ND	ug/Kg dry	11.1	1	06/23/06
1,2-Dichlorobenzene	ND	ug/Kg dry	11.1	1	06/23/06
1,2-Dichloroethane	ND	ug/Kg dry	11.1	1	06/23/06
1,2-Dichloropropane	ND	ug/Kg dry	11.1	1	06/23/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	11.1	1	06/23/06
1,3-Dichlorobenzene	ND	ug/Kg dry	11.1	1	06/23/06
1,3-Dichloropropane	ND	ug/Kg dry	11.1	1	06/23/06
1,4-Dichlorobenzene	ND	ug/Kg dry	11.1	1	06/23/06
1,4-Dioxane - Screen	ND	ug/Kg dry	554	1	06/23/06
1-Chlorohexane	ND	ug/Kg dry	11.1	1	06/23/06
2,2-Dichloropropane	ND	ug/Kg dry	11.1	1	06/23/06
2-Butanone	ND	ug/Kg dry	111	1	06/23/06
2-Chlorotoluene	ND	ug/Kg dry	11.1	1	06/23/06
2-Hexanone	ND	ug/Kg dry	111	1	06/23/06
4-Chlorotoluene	ND	ug/Kg dry	11.1	1	06/23/06
4-Isopropyltoluene	ND	ug/Kg dry	11.1	1	06/23/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	111	1	06/23/06
<b>Acetone</b>	<b>147</b>	ug/Kg dry	111	1	06/23/06
Benzene	ND	ug/Kg dry	11.1	1	06/23/06
Bromobenzene	ND	ug/Kg dry	11.1	1	06/23/06
Bromochloromethane	ND	ug/Kg dry	11.1	1	06/23/06
Bromodichloromethane	ND	ug/Kg dry	11.1	1	06/23/06
Bromoform	ND	ug/Kg dry	11.1	1	06/23/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3004  
Date Sampled: 06/21/06 13:45  
Percent Solids: 47  
Initial Volume: 4.8  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-04  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	22.2	1	06/23/06
Carbon Disulfide	ND	ug/Kg dry	11.1	1	06/23/06
Carbon Tetrachloride	ND	ug/Kg dry	11.1	1	06/23/06
Chlorobenzene	ND	ug/Kg dry	11.1	1	06/23/06
Chloroethane	ND	ug/Kg dry	22.2	1	06/23/06
Chloroform	ND	ug/Kg dry	11.1	1	06/23/06
Chloromethane	ND	ug/Kg dry	22.2	1	06/23/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	11.1	1	06/23/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	11.1	1	06/23/06
Dibromochloromethane	ND	ug/Kg dry	11.1	1	06/23/06
Dibromomethane	ND	ug/Kg dry	11.1	1	06/23/06
Dichlorodifluoromethane	ND	ug/Kg dry	22.2	1	06/23/06
Diethyl Ether	ND	ug/Kg dry	11.1	1	06/23/06
Di-isopropyl ether	ND	ug/Kg dry	11.1	1	06/23/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	11.1	1	06/23/06
Ethylbenzene	ND	ug/Kg dry	11.1	1	06/23/06
Hexachlorobutadiene	ND	ug/Kg dry	11.1	1	06/23/06
Isopropylbenzene	ND	ug/Kg dry	11.1	1	06/23/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	11.1	1	06/23/06
Methylene Chloride	ND	ug/Kg dry	55.4	1	06/23/06
Naphthalene	ND	ug/Kg dry	11.1	1	06/23/06
n-Butylbenzene	ND	ug/Kg dry	11.1	1	06/23/06
n-Propylbenzene	ND	ug/Kg dry	11.1	1	06/23/06
sec-Butylbenzene	ND	ug/Kg dry	11.1	1	06/23/06
Styrene	ND	ug/Kg dry	11.1	1	06/23/06
tert-Butylbenzene	ND	ug/Kg dry	11.1	1	06/23/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	11.1	1	06/23/06
Tetrachloroethene	ND	ug/Kg dry	11.1	1	06/23/06
Tetrahydrofuran	ND	ug/Kg dry	11.1	1	06/23/06
Toluene	ND	ug/Kg dry	11.1	1	06/23/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	11.1	1	06/23/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	11.1	1	06/23/06
Trichloroethene	ND	ug/Kg dry	11.1	1	06/23/06
Trichlorofluoromethane	ND	ug/Kg dry	11.1	1	06/23/06
<b>Vinyl Chloride</b>	<b>224</b>	ug/Kg dry	22.2	1	06/23/06
Xylene O	ND	ug/Kg dry	1360	1	06/23/06



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED3004

Date Sampled: 06/21/06 13:45

Percent Solids: 47

Initial Volume: 4.8

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-04

Sample Matrix: Soil

Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	22.2	1	06/23/06
Xylenes (Total)	ND	ug/Kg dry	33.3		06/23/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	91 %		70-130
Surrogate: 4-Bromofluorobenzene	84 %		70-130
Surrogate: Dibromofluoromethane	99 %		70-130
Surrogate: Toluene-d8	103 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2801  
Date Sampled: 06/21/06 14:02  
Percent Solids: 27  
Initial Volume: 4.1  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-05  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	22.6	1	06/23/06
1,1,1-Trichloroethane	ND	ug/Kg dry	22.6	1	06/23/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	22.6	1	06/23/06
1,1,2-Trichloroethane	ND	ug/Kg dry	22.6	1	06/23/06
<b>1,1-Dichloroethane</b>	<b>26.6</b>	ug/Kg dry	22.6	1	06/23/06
1,1-Dichloroethene	ND	ug/Kg dry	22.6	1	06/23/06
1,1-Dichloropropene	ND	ug/Kg dry	22.6	1	06/23/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	22.6	1	06/23/06
1,2,3-Trichloropropane	ND	ug/Kg dry	22.6	1	06/23/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	22.6	1	06/23/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	22.6	1	06/23/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	22.6	1	06/23/06
1,2-Dibromoethane	ND	ug/Kg dry	22.6	1	06/23/06
1,2-Dichlorobenzene	ND	ug/Kg dry	22.6	1	06/23/06
1,2-Dichloroethane	ND	ug/Kg dry	22.6	1	06/23/06
1,2-Dichloropropane	ND	ug/Kg dry	22.6	1	06/23/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	22.6	1	06/23/06
1,3-Dichlorobenzene	ND	ug/Kg dry	22.6	1	06/23/06
1,3-Dichloropropane	ND	ug/Kg dry	22.6	1	06/23/06
1,4-Dichlorobenzene	ND	ug/Kg dry	22.6	1	06/23/06
1,4-Dioxane - Screen	ND	ug/Kg dry	1130	1	06/23/06
1-Chlorohexane	ND	ug/Kg dry	22.6	1	06/23/06
2,2-Dichloropropane	ND	ug/Kg dry	22.6	1	06/23/06
2-Butanone	ND	ug/Kg dry	226	1	06/23/06
2-Chlorotoluene	ND	ug/Kg dry	22.6	1	06/23/06
2-Hexanone	ND	ug/Kg dry	226	1	06/23/06
4-Chlorotoluene	ND	ug/Kg dry	22.6	1	06/23/06
4-Isopropyltoluene	ND	ug/Kg dry	22.6	1	06/23/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	226	1	06/23/06
<b>Acetone</b>	<b>384</b>	ug/Kg dry	226	1	06/23/06
Benzene	ND	ug/Kg dry	22.6	1	06/23/06
Bromobenzene	ND	ug/Kg dry	22.6	1	06/23/06
Bromochloromethane	ND	ug/Kg dry	22.6	1	06/23/06
Bromodichloromethane	ND	ug/Kg dry	22.6	1	06/23/06
Bromoform	ND	ug/Kg dry	<del>236</del> 2	1	06/23/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2801  
Date Sampled: 06/21/06 14:02  
Percent Solids: 27  
Initial Volume: 4.1  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-05  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	45.2	1	06/23/06
Carbon Disulfide	ND	ug/Kg dry	22.6	1	06/23/06
Carbon Tetrachloride	ND	ug/Kg dry	22.6	1	06/23/06
Chlorobenzene	ND	ug/Kg dry	22.6	1	06/23/06
Chloroethane	ND	ug/Kg dry	45.2	1	06/23/06
Chloroform	ND	ug/Kg dry	22.6	1	06/23/06
Chloromethane	ND	ug/Kg dry	45.2	1	06/23/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	22.6	1	06/23/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	22.6	1	06/23/06
Dibromochloromethane	ND	ug/Kg dry	22.6	1	06/23/06
Dibromomethane	ND	ug/Kg dry	22.6	1	06/23/06
Dichlorodifluoromethane	ND	ug/Kg dry	45.2	1	06/23/06
Diethyl Ether	ND	ug/Kg dry	22.6	1	06/23/06
Di-isopropyl ether	ND	ug/Kg dry	22.6	1	06/23/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	22.6	1	06/23/06
Ethylbenzene	ND	ug/Kg dry	22.6	1	06/23/06
Hexachlorobutadiene	ND	ug/Kg dry	22.6	1	06/23/06
<b>Isopropylbenzene</b>	<b>51.4</b>	ug/Kg dry	22.6	1	06/23/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	22.6	1	06/23/06
Methylene Chloride	ND	ug/Kg dry	113	1	06/23/06
Naphthalene	ND	ug/Kg dry	22.6	1	06/23/06
n-Butylbenzene	ND	ug/Kg dry	22.6	1	06/23/06
n-Propylbenzene	ND	ug/Kg dry	22.6	1	06/23/06
<b>sec-Butylbenzene</b>	<b>30.3</b>	ug/Kg dry	22.6	1	06/23/06
Styrene	ND	ug/Kg dry	22.6	1	06/23/06
tert-Butylbenzene	ND	ug/Kg dry	22.6	1	06/23/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	22.6	1	06/23/06
Tetrachloroethene	ND	ug/Kg dry	22.6	1	06/23/06
Tetrahydrofuran	ND	ug/Kg dry	22.6	1	06/23/06
Toluene	ND	ug/Kg dry	22.6	1	06/23/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	22.6	1	06/23/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	22.6	1	06/23/06
Trichloroethene	ND	ug/Kg dry	22.6	1	06/23/06
Trichlorofluoromethane	ND	ug/Kg dry	22.6	1	06/23/06
<b>Vinyl Chloride</b>	<b>49.9</b>	ug/Kg dry	45.2	1	06/23/06
Xylene O	ND	ug/Kg dry	<del>2363</del>	1	06/23/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2801  
Date Sampled: 06/21/06 14:02  
Percent Solids: 27  
Initial Volume: 4.1  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-05  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	45.2	1	06/23/06
Xylenes (Total)	ND	ug/Kg dry	67.8		06/23/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	96 %		70-130
Surrogate: 4-Bromofluorobenzene	83 %		70-130
Surrogate: Dibromofluoromethane	103 %		70-130
Surrogate: Toluene-d8	106 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2803  
Date Sampled: 06/21/06 14:15  
Percent Solids: 11  
Initial Volume: 3  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-06  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	75.8	1	06/23/06
1,1,1-Trichloroethane	ND	ug/Kg dry	75.8	1	06/23/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	75.8	1	06/23/06
1,1,2-Trichloroethane	ND	ug/Kg dry	75.8	1	06/23/06
1,1-Dichloroethane	ND	ug/Kg dry	75.8	1	06/23/06
1,1-Dichloroethene	ND	ug/Kg dry	75.8	1	06/23/06
1,1-Dichloropropene	ND	ug/Kg dry	75.8	1	06/23/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	75.8	1	06/23/06
1,2,3-Trichloropropane	ND	ug/Kg dry	75.8	1	06/23/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	75.8	1	06/23/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	75.8	1	06/23/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	75.8	1	06/23/06
1,2-Dibromoethane	ND	ug/Kg dry	75.8	1	06/23/06
1,2-Dichlorobenzene	ND	ug/Kg dry	75.8	1	06/23/06
1,2-Dichloroethane	ND	ug/Kg dry	75.8	1	06/23/06
1,2-Dichloropropane	ND	ug/Kg dry	75.8	1	06/23/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	75.8	1	06/23/06
1,3-Dichlorobenzene	ND	ug/Kg dry	75.8	1	06/23/06
1,3-Dichloropropane	ND	ug/Kg dry	75.8	1	06/23/06
1,4-Dichlorobenzene	ND	ug/Kg dry	75.8	1	06/23/06
1,4-Dioxane - Screen	ND	ug/Kg dry	3790	1	06/23/06
1-Chlorohexane	ND	ug/Kg dry	75.8	1	06/23/06
2,2-Dichloropropane	ND	ug/Kg dry	75.8	1	06/23/06
2-Butanone	ND	ug/Kg dry	758	1	06/23/06
2-Chlorotoluene	ND	ug/Kg dry	75.8	1	06/23/06
2-Hexanone	ND	ug/Kg dry	758	1	06/23/06
4-Chlorotoluene	ND	ug/Kg dry	75.8	1	06/23/06
4-Isopropyltoluene	ND	ug/Kg dry	75.8	1	06/23/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	758	1	06/23/06
Acetone	1570	ug/Kg dry	758	1	06/23/06
Benzene	ND	ug/Kg dry	75.8	1	06/23/06
Bromobenzene	ND	ug/Kg dry	75.8	1	06/23/06
Bromochloromethane	ND	ug/Kg dry	75.8	1	06/23/06
Bromodichloromethane	ND	ug/Kg dry	75.8	1	06/23/06
Bromoform	ND	ug/Kg dry	75.8	1	06/23/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2803  
Date Sampled: 06/21/06 14:15  
Percent Solids: 11  
Initial Volume: 3  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-06  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	152	1	06/23/06
Carbon Disulfide	ND	ug/Kg dry	75.8	1	06/23/06
Carbon Tetrachloride	ND	ug/Kg dry	75.8	1	06/23/06
Chlorobenzene	ND	ug/Kg dry	75.8	1	06/23/06
Chloroethane	ND	ug/Kg dry	152	1	06/23/06
Chloroform	ND	ug/Kg dry	75.8	1	06/23/06
Chloromethane	ND	ug/Kg dry	152	1	06/23/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	75.8	1	06/23/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	75.8	1	06/23/06
Dibromochloromethane	ND	ug/Kg dry	75.8	1	06/23/06
Dibromomethane	ND	ug/Kg dry	75.8	1	06/23/06
Dichlorodifluoromethane	ND	ug/Kg dry	152	1	06/23/06
Diethyl Ether	ND	ug/Kg dry	75.8	1	06/23/06
Di-isopropyl ether	ND	ug/Kg dry	75.8	1	06/23/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	75.8	1	06/23/06
Ethylbenzene	ND	ug/Kg dry	75.8	1	06/23/06
Hexachlorobutadiene	ND	ug/Kg dry	75.8	1	06/23/06
<b>Isopropylbenzene</b>	<b>332</b>	ug/Kg dry	75.8	1	06/23/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	75.8	1	06/23/06
Methylene Chloride	ND	ug/Kg dry	379	1	06/23/06
Naphthalene	ND	ug/Kg dry	75.8	1	06/23/06
n-Butylbenzene	ND	ug/Kg dry	75.8	1	06/23/06
<b>n-Propylbenzene</b>	<b>95.5</b>	ug/Kg dry	75.8	1	06/23/06
<b>sec-Butylbenzene</b>	<b>173</b>	ug/Kg dry	75.8	1	06/23/06
Styrene	ND	ug/Kg dry	75.8	1	06/23/06
tert-Butylbenzene	ND	ug/Kg dry	75.8	1	06/23/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	75.8	1	06/23/06
Tetrachloroethene	ND	ug/Kg dry	75.8	1	06/23/06
Tetrahydrofuran	ND	ug/Kg dry	75.8	1	06/23/06
Toluene	ND	ug/Kg dry	75.8	1	06/23/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	75.8	1	06/23/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	75.8	1	06/23/06
Trichloroethene	ND	ug/Kg dry	75.8	1	06/23/06
Trichlorofluoromethane	ND	ug/Kg dry	75.8	1	06/23/06
Vinyl Chloride	ND	ug/Kg dry	152	1	06/23/06
Xylene O	ND	ug/Kg dry	<b>7366</b>	1	06/23/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2803  
Date Sampled: 06/21/06 14:15  
Percent Solids: 11  
Initial Volume: 3  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-06  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	152	1	06/23/06
Xylenes (Total)	ND	ug/Kg dry	228		06/23/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	93 %		70-130
Surrogate: 4-Bromofluorobenzene	78 %		70-130
Surrogate: Dibromofluoromethane	101 %		70-130
Surrogate: Toluene-d8	112 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2901  
Date Sampled: 06/21/06 14:42  
Percent Solids: 25  
Initial Volume: 4  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-07  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	25.0	1	06/27/06
1,1,1-Trichloroethane	ND	ug/Kg dry	25.0	1	06/27/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	25.0	1	06/27/06
1,1,2-Trichloroethane	ND	ug/Kg dry	25.0	1	06/27/06
1,1-Dichloroethane	ND	ug/Kg dry	25.0	1	06/27/06
1,1-Dichloroethene	ND	ug/Kg dry	25.0	1	06/27/06
1,1-Dichloropropene	ND	ug/Kg dry	25.0	1	06/27/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	25.0	1	06/27/06
1,2,3-Trichloropropane	ND	ug/Kg dry	25.0	1	06/27/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	25.0	1	06/27/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	25.0	1	06/27/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	25.0	1	06/27/06
1,2-Dibromoethane	ND	ug/Kg dry	25.0	1	06/27/06
1,2-Dichlorobenzene	ND	ug/Kg dry	25.0	1	06/27/06
1,2-Dichloroethane	ND	ug/Kg dry	25.0	1	06/27/06
1,2-Dichloropropane	ND	ug/Kg dry	25.0	1	06/27/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	25.0	1	06/27/06
1,3-Dichlorobenzene	ND	ug/Kg dry	25.0	1	06/27/06
1,3-Dichloropropane	ND	ug/Kg dry	25.0	1	06/27/06
1,4-Dichlorobenzene	ND	ug/Kg dry	25.0	1	06/27/06
1,4-Dioxane - Screen	ND	ug/Kg dry	1250	1	06/27/06
1-Chlorohexane	ND	ug/Kg dry	25.0	1	06/27/06
2,2-Dichloropropane	ND	ug/Kg dry	25.0	1	06/27/06
2-Butanone	ND	ug/Kg dry	250	1	06/27/06
2-Chlorotoluene	ND	ug/Kg dry	25.0	1	06/27/06
2-Hexanone	ND	ug/Kg dry	250	1	06/27/06
4-Chlorotoluene	ND	ug/Kg dry	25.0	1	06/27/06
4-Isopropyltoluene	ND	ug/Kg dry	25.0	1	06/27/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	250	1	06/27/06
<b>Acetone</b>	<b>270</b>	ug/Kg dry	250	1	06/27/06
Benzene	ND	ug/Kg dry	25.0	1	06/27/06
Bromobenzene	ND	ug/Kg dry	25.0	1	06/27/06
Bromochloromethane	ND	ug/Kg dry	25.0	1	06/27/06
Bromodichloromethane	ND	ug/Kg dry	25.0	1	06/27/06
Bromoform	ND	ug/Kg dry	25.0	1	06/27/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2901  
Date Sampled: 06/21/06 14:42  
Percent Solids: 25  
Initial Volume: 4  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-07  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	50.0	1	06/27/06
Carbon Disulfide	ND	ug/Kg dry	25.0	1	06/27/06
Carbon Tetrachloride	ND	ug/Kg dry	25.0	1	06/27/06
Chlorobenzene	ND	ug/Kg dry	25.0	1	06/27/06
Chloroethane	ND	ug/Kg dry	50.0	1	06/27/06
Chloroform	ND	ug/Kg dry	25.0	1	06/27/06
Chloromethane	ND	ug/Kg dry	50.0	1	06/27/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	25.0	1	06/27/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	25.0	1	06/27/06
Dibromochloromethane	ND	ug/Kg dry	25.0	1	06/27/06
Dibromomethane	ND	ug/Kg dry	25.0	1	06/27/06
Dichlorodifluoromethane	ND	ug/Kg dry	50.0	1	06/27/06
Diethyl Ether	ND	ug/Kg dry	25.0	1	06/27/06
Di-isopropyl ether	ND	ug/Kg dry	25.0	1	06/27/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	25.0	1	06/27/06
Ethylbenzene	ND	ug/Kg dry	25.0	1	06/27/06
Hexachlorobutadiene	ND	ug/Kg dry	25.0	1	06/27/06
Isopropylbenzene	ND	ug/Kg dry	25.0	1	06/27/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	25.0	1	06/27/06
Methylene Chloride	ND	ug/Kg dry	125	1	06/27/06
Naphthalene	ND	ug/Kg dry	25.0	1	06/27/06
n-Butylbenzene	ND	ug/Kg dry	25.0	1	06/27/06
n-Propylbenzene	ND	ug/Kg dry	25.0	1	06/27/06
sec-Butylbenzene	ND	ug/Kg dry	25.0	1	06/27/06
Styrene	ND	ug/Kg dry	25.0	1	06/27/06
tert-Butylbenzene	ND	ug/Kg dry	25.0	1	06/27/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	25.0	1	06/27/06
Tetrachloroethene	ND	ug/Kg dry	25.0	1	06/27/06
Tetrahydrofuran	ND	ug/Kg dry	25.0	1	06/27/06
Toluene	ND	ug/Kg dry	25.0	1	06/27/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	25.0	1	06/27/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	25.0	1	06/27/06
Trichloroethene	ND	ug/Kg dry	25.0	1	06/27/06
Trichlorofluoromethane	ND	ug/Kg dry	25.0	1	06/27/06
Vinyl Chloride	ND	ug/Kg dry	50.0	1	06/27/06
Xylene O	ND	ug/Kg dry	2369	1	06/27/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED2901

Date Sampled: 06/21/06 14:42

Percent Solids: 25

Initial Volume: 4

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-07

Sample Matrix: Soil

Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	50.0	I	06/27/06
Xylenes (Total)	ND	ug/Kg dry	75.0		06/27/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	97 %		70-130
Surrogate: 4-Bromofluorobenzene	92 %		70-130
Surrogate: Dibromofluoromethane	101 %		70-130
Surrogate: Toluene-d8	96 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3201  
Date Sampled: 06/21/06 15:22  
Percent Solids: 72  
Initial Volume: 7  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-09  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	5.0	1	06/23/06
1,1,1-Trichloroethane	ND	ug/Kg dry	5.0	1	06/23/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	5.0	1	06/23/06
1,1,2-Trichloroethane	ND	ug/Kg dry	5.0	1	06/23/06
1,1-Dichloroethane	ND	ug/Kg dry	5.0	1	06/23/06
1,1-Dichloroethene	ND	ug/Kg dry	5.0	1	06/23/06
1,1-Dichloropropene	ND	ug/Kg dry	5.0	1	06/23/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	5.0	1	06/23/06
1,2,3-Trichloropropane	ND	ug/Kg dry	5.0	1	06/23/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	5.0	1	06/23/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	5.0	1	06/23/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	5.0	1	06/23/06
1,2-Dibromoethane	ND	ug/Kg dry	5.0	1	06/23/06
1,2-Dichlorobenzene	ND	ug/Kg dry	5.0	1	06/23/06
1,2-Dichloroethane	ND	ug/Kg dry	5.0	1	06/23/06
1,2-Dichloropropane	ND	ug/Kg dry	5.0	1	06/23/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	5.0	1	06/23/06
1,3-Dichlorobenzene	ND	ug/Kg dry	5.0	1	06/23/06
1,3-Dichloropropane	ND	ug/Kg dry	5.0	1	06/23/06
1,4-Dichlorobenzene	ND	ug/Kg dry	5.0	1	06/23/06
1,4-Dioxane - Screen	ND	ug/Kg dry	248	1	06/23/06
1-Chlorohexane	ND	ug/Kg dry	5.0	1	06/23/06
2,2-Dichloropropane	ND	ug/Kg dry	5.0	1	06/23/06
2-Butanone	ND	ug/Kg dry	49.6	1	06/23/06
2-Chlorotoluene	ND	ug/Kg dry	5.0	1	06/23/06
2-Hexanone	ND	ug/Kg dry	49.6	1	06/23/06
4-Chlorotoluene	ND	ug/Kg dry	5.0	1	06/23/06
4-Isopropyltoluene	ND	ug/Kg dry	5.0	1	06/23/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	49.6	1	06/23/06
Acetone	ND	ug/Kg dry	49.6	1	06/23/06
Benzene	ND	ug/Kg dry	5.0	1	06/23/06
Bromobenzene	ND	ug/Kg dry	5.0	1	06/23/06
Bromochloromethane	ND	ug/Kg dry	5.0	1	06/23/06
Bromodichloromethane	ND	ug/Kg dry	5.0	1	06/23/06
Bromoform	ND	ug/Kg dry	5.0	1	06/23/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3201  
Date Sampled: 06/21/06 15:22  
Percent Solids: 72  
Initial Volume: 7  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-09  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	9.9	1	06/23/06
Carbon Disulfide	ND	ug/Kg dry	5.0	1	06/23/06
Carbon Tetrachloride	ND	ug/Kg dry	5.0	1	06/23/06
Chlorobenzene	ND	ug/Kg dry	5.0	1	06/23/06
Chloroethane	ND	ug/Kg dry	9.9	1	06/23/06
Chloroform	ND	ug/Kg dry	5.0	1	06/23/06
Chloromethane	ND	ug/Kg dry	9.9	1	06/23/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	5.0	1	06/23/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	5.0	1	06/23/06
Dibromochloromethane	ND	ug/Kg dry	5.0	1	06/23/06
Dibromomethane	ND	ug/Kg dry	5.0	1	06/23/06
Dichlorodifluoromethane	ND	ug/Kg dry	9.9	1	06/23/06
Diethyl Ether	ND	ug/Kg dry	5.0	1	06/23/06
Di-isopropyl ether	ND	ug/Kg dry	5.0	1	06/23/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	5.0	1	06/23/06
Ethylbenzene	ND	ug/Kg dry	5.0	1	06/23/06
Hexachlorobutadiene	ND	ug/Kg dry	5.0	1	06/23/06
Isopropylbenzene	ND	ug/Kg dry	5.0	1	06/23/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	5.0	1	06/23/06
Methylene Chloride	ND	ug/Kg dry	24.8	1	06/23/06
Naphthalene	ND	ug/Kg dry	5.0	1	06/23/06
n-Butylbenzene	ND	ug/Kg dry	5.0	1	06/23/06
n-Propylbenzene	ND	ug/Kg dry	5.0	1	06/23/06
sec-Butylbenzene	ND	ug/Kg dry	5.0	1	06/23/06
Styrene	ND	ug/Kg dry	5.0	1	06/23/06
tert-Butylbenzene	ND	ug/Kg dry	5.0	1	06/23/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	5.0	1	06/23/06
Tetrachloroethene	ND	ug/Kg dry	5.0	1	06/23/06
Tetrahydrofuran	ND	ug/Kg dry	5.0	1	06/23/06
Toluene	ND	ug/Kg dry	5.0	1	06/23/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	5.0	1	06/23/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	5.0	1	06/23/06
Trichloroethene	ND	ug/Kg dry	5.0	1	06/23/06
Trichlorofluoromethane	ND	ug/Kg dry	5.0	1	06/23/06
Vinyl Chloride	ND	ug/Kg dry	9.9	1	06/23/06
Xylene O	ND	ug/Kg dry	372	1	06/23/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3201  
Date Sampled: 06/21/06 15:22  
Percent Solids: 72  
Initial Volume: 7  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-09  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	9.9	I	06/23/06
Xylenes (Total)	ND	ug/Kg dry	14.9		06/23/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	95 %		70-130
Surrogate: 4-Bromofluorobenzene	96 %		70-130
Surrogate: Dibromofluoromethane	101 %		70-130
Surrogate: Toluene-d8	94 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3204  
Date Sampled: 06/21/06 15:34  
Percent Solids: 80  
Initial Volume: 5.1  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-10  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	6.1	1	06/23/06
1,1,1-Trichloroethane	ND	ug/Kg dry	6.1	1	06/23/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	6.1	1	06/23/06
1,1,2-Trichloroethane	ND	ug/Kg dry	6.1	1	06/23/06
1,1-Dichloroethane	ND	ug/Kg dry	6.1	1	06/23/06
1,1-Dichloroethene	ND	ug/Kg dry	6.1	1	06/23/06
1,1-Dichloropropene	ND	ug/Kg dry	6.1	1	06/23/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	6.1	1	06/23/06
1,2,3-Trichloropropane	ND	ug/Kg dry	6.1	1	06/23/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	6.1	1	06/23/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	6.1	1	06/23/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	6.1	1	06/23/06
1,2-Dibromoethane	ND	ug/Kg dry	6.1	1	06/23/06
1,2-Dichlorobenzene	ND	ug/Kg dry	6.1	1	06/23/06
1,2-Dichloroethane	ND	ug/Kg dry	6.1	1	06/23/06
1,2-Dichloropropane	ND	ug/Kg dry	6.1	1	06/23/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	6.1	1	06/23/06
1,3-Dichlorobenzene	ND	ug/Kg dry	6.1	1	06/23/06
1,3-Dichloropropane	ND	ug/Kg dry	6.1	1	06/23/06
1,4-Dichlorobenzene	ND	ug/Kg dry	6.1	1	06/23/06
1,4-Dioxane - Screen	ND	ug/Kg dry	306	1	06/23/06
1-Chlorohexane	ND	ug/Kg dry	6.1	1	06/23/06
2,2-Dichloropropane	ND	ug/Kg dry	6.1	1	06/23/06
2-Butanone	ND	ug/Kg dry	61.3	1	06/23/06
2-Chlorotoluene	ND	ug/Kg dry	6.1	1	06/23/06
2-Hexanone	ND	ug/Kg dry	61.3	1	06/23/06
4-Chlorotoluene	ND	ug/Kg dry	6.1	1	06/23/06
4-Isopropyltoluene	ND	ug/Kg dry	6.1	1	06/23/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	61.3	1	06/23/06
Acetone	ND	ug/Kg dry	61.3	1	06/23/06
Benzene	ND	ug/Kg dry	6.1	1	06/23/06
Bromobenzene	ND	ug/Kg dry	6.1	1	06/23/06
Bromochloromethane	ND	ug/Kg dry	6.1	1	06/23/06
Bromodichloromethane	ND	ug/Kg dry	6.1	1	06/23/06
Bromoform	ND	ug/Kg dry	6.1	1	06/23/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3204  
Date Sampled: 06/21/06 15:34  
Percent Solids: 80  
Initial Volume: 5.1  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-10  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	12.3	1	06/23/06
Carbon Disulfide	ND	ug/Kg dry	6.1	1	06/23/06
Carbon Tetrachloride	ND	ug/Kg dry	6.1	1	06/23/06
Chlorobenzene	ND	ug/Kg dry	6.1	1	06/23/06
Chloroethane	ND	ug/Kg dry	12.3	1	06/23/06
Chloroform	ND	ug/Kg dry	6.1	1	06/23/06
Chloromethane	ND	ug/Kg dry	12.3	1	06/23/06
<b>c is-1,2-Dichloroethene</b>	<b>13.7</b>	ug/Kg dry	6.1	1	06/23/06
c is-1,3-Dichloropropene	ND	ug/Kg dry	6.1	1	06/23/06
Dibromochloromethane	ND	ug/Kg dry	6.1	1	06/23/06
Dibromomethane	ND	ug/Kg dry	6.1	1	06/23/06
Dichlorodifluoromethane	ND	ug/Kg dry	12.3	1	06/23/06
Diethyl Ether	ND	ug/Kg dry	6.1	1	06/23/06
Di-isopropyl ether	ND	ug/Kg dry	6.1	1	06/23/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	6.1	1	06/23/06
Ethylbenzene	ND	ug/Kg dry	6.1	1	06/23/06
Hexachlorobutadiene	ND	ug/Kg dry	6.1	1	06/23/06
Isopropylbenzene	ND	ug/Kg dry	6.1	1	06/23/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	6.1	1	06/23/06
Methylene Chloride	ND	ug/Kg dry	30.6	1	06/23/06
Naphthalene	ND	ug/Kg dry	6.1	1	06/23/06
n-Butylbenzene	ND	ug/Kg dry	6.1	1	06/23/06
n-Propylbenzene	ND	ug/Kg dry	6.1	1	06/23/06
sec-Butylbenzene	ND	ug/Kg dry	6.1	1	06/23/06
Styrene	ND	ug/Kg dry	6.1	1	06/23/06
tert-Butylbenzene	ND	ug/Kg dry	6.1	1	06/23/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	6.1	1	06/23/06
Tetrachloroethene	ND	ug/Kg dry	6.1	1	06/23/06
Tetrahydrofuran	ND	ug/Kg dry	6.1	1	06/23/06
Toluene	ND	ug/Kg dry	6.1	1	06/23/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	6.1	1	06/23/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	6.1	1	06/23/06
<b>Trichloroethene</b>	<b>7.3</b>	ug/Kg dry	6.1	1	06/23/06
Trichlorofluoromethane	ND	ug/Kg dry	6.1	1	06/23/06
Vinyl Chloride	ND	ug/Kg dry	12.3	1	06/23/06
Xylene O	ND	ug/Kg dry	<b>6.875</b>	1	06/23/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3204  
Date Sampled: 06/21/06 15:34  
Percent Solids: 80  
Initial Volume: 5.1  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-10  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	12.3	1	06/23/06
Xylenes (Total)	ND	ug/Kg dry	18.4		06/23/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	94 %		70-130
Surrogate: 4-Bromofluorobenzene	96 %		70-130
Surrogate: Dibromofluoromethane	101 %		70-130
Surrogate: Toluene-d8	94 %		70-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: Trip blank  
Date Sampled: 06/21/06 00:00  
Percent Solids: N/A  
Initial Volume: 5  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-11  
Sample Matrix: Solid  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg	5.0	1	06/23/06
1,1,1-Trichloroethane	ND	ug/Kg	5.0	1	06/23/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg	5.0	1	06/23/06
1,1,2-Trichloroethane	ND	ug/Kg	5.0	1	06/23/06
1,1-Dichloroethane	ND	ug/Kg	5.0	1	06/23/06
1,1-Dichloroethene	ND	ug/Kg	5.0	1	06/23/06
1,1-Dichloropropene	ND	ug/Kg	5.0	1	06/23/06
1,2,3-Trichlorobenzene	ND	ug/Kg	5.0	1	06/23/06
1,2,3-Trichloropropane	ND	ug/Kg	5.0	1	06/23/06
1,2,4-Trichlorobenzene	ND	ug/Kg	5.0	1	06/23/06
1,2,4-Trimethylbenzene	ND	ug/Kg	5.0	1	06/23/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg	5.0	1	06/23/06
1,2-Dibromoethane	ND	ug/Kg	5.0	1	06/23/06
1,2-Dichlorobenzene	ND	ug/Kg	5.0	1	06/23/06
1,2-Dichloroethane	ND	ug/Kg	5.0	1	06/23/06
1,2-Dichloropropane	ND	ug/Kg	5.0	1	06/23/06
1,3,5-Trimethylbenzene	ND	ug/Kg	5.0	1	06/23/06
1,3-Dichlorobenzene	ND	ug/Kg	5.0	1	06/23/06
1,3-Dichloropropane	ND	ug/Kg	5.0	1	06/23/06
1,4-Dichlorobenzene	ND	ug/Kg	5.0	1	06/23/06
1,4-Dioxane - Screen	ND	ug/Kg	250	1	06/23/06
1-Chlorohexane	ND	ug/Kg	5.0	1	06/23/06
2,2-Dichloropropane	ND	ug/Kg	5.0	1	06/23/06
2-Butanone	ND	ug/Kg	50.0	1	06/23/06
2-Chlorotoluene	ND	ug/Kg	5.0	1	06/23/06
2-Hexanone	ND	ug/Kg	50.0	1	06/23/06
4-Chlorotoluene	ND	ug/Kg	5.0	1	06/23/06
4-Isopropyltoluene	ND	ug/Kg	5.0	1	06/23/06
4-Methyl-2-Pentanone	ND	ug/Kg	50.0	1	06/23/06
Acetone	ND	ug/Kg	50.0	1	06/23/06
Benzene	ND	ug/Kg	5.0	1	06/23/06
Bromobenzene	ND	ug/Kg	5.0	1	06/23/06
Bromochloromethane	ND	ug/Kg	5.0	1	06/23/06
Bromodichloromethane	ND	ug/Kg	5.0	1	06/23/06
Bromoform	ND	ug/Kg	5.977	1	06/23/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: Trip blank  
Date Sampled: 06/21/06 00:00  
Percent Solids: N/A  
Initial Volume: 5  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-11  
Sample Matrix: Solid  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg	10.0	1	06/23/06
Carbon Disulfide	ND	ug/Kg	5.0	1	06/23/06
Carbon Tetrachloride	ND	ug/Kg	5.0	1	06/23/06
Chlorobenzene	ND	ug/Kg	5.0	1	06/23/06
Chloroethane	ND	ug/Kg	10.0	1	06/23/06
Chloroform	ND	ug/Kg	5.0	1	06/23/06
Chloromethane	ND	ug/Kg	10.0	1	06/23/06
cis-1,2-Dichloroethene	ND	ug/Kg	5.0	1	06/23/06
cis-1,3-Dichloropropene	ND	ug/Kg	5.0	1	06/23/06
Dibromochloromethane	ND	ug/Kg	5.0	1	06/23/06
Dibromomethane	ND	ug/Kg	5.0	1	06/23/06
Dichlorodifluoromethane	ND	ug/Kg	10.0	1	06/23/06
Diethyl Ether	ND	ug/Kg	5.0	1	06/23/06
Di-isopropyl ether	ND	ug/Kg	5.0	1	06/23/06
Ethyl tertiary-butyl ether	ND	ug/Kg	5.0	1	06/23/06
Ethylbenzene	ND	ug/Kg	5.0	1	06/23/06
Hexachlorobutadiene	ND	ug/Kg	5.0	1	06/23/06
Isopropylbenzene	ND	ug/Kg	5.0	1	06/23/06
Methyl tert-Butyl Ether	ND	ug/Kg	5.0	1	06/23/06
Methylene Chloride	ND	ug/Kg	25.0	1	06/23/06
Naphthalene	ND	ug/Kg	5.0	1	06/23/06
n-Butylbenzene	ND	ug/Kg	5.0	1	06/23/06
n-Propylbenzene	ND	ug/Kg	5.0	1	06/23/06
sec-Butylbenzene	ND	ug/Kg	5.0	1	06/23/06
Styrene	ND	ug/Kg	5.0	1	06/23/06
tert-Butylbenzene	ND	ug/Kg	5.0	1	06/23/06
Tertiary-amyl methyl ether	ND	ug/Kg	5.0	1	06/23/06
Tetrachloroethene	ND	ug/Kg	5.0	1	06/23/06
Tetrahydrofuran	ND	ug/Kg	5.0	1	06/23/06
Toluene	ND	ug/Kg	5.0	1	06/23/06
trans-1,2-Dichloroethene	ND	ug/Kg	5.0	1	06/23/06
trans-1,3-Dichloropropene	ND	ug/Kg	5.0	1	06/23/06
Trichloroethene	ND	ug/Kg	5.0	1	06/23/06
Trichlorofluoromethane	ND	ug/Kg	5.0	1	06/23/06
Vinyl Chloride	ND	ug/Kg	10.0	1	06/23/06
Xylene O	ND	ug/Kg	5.078	1	06/23/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: Trip blank

Date Sampled: 06/21/06 00:00

Percent Solids: N/A

Initial Volume: 5

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-11

Sample Matrix: Solid

Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg	10.0	1	06/23/06
Xylenes (Total)	ND	ug/Kg	7.5		06/23/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	94 %		70-130
Surrogate: 4-Bromofluorobenzene	95 %		70-130
Surrogate: Dibromofluoromethane	99 %		70-130
Surrogate: Toluene-d8	94 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2001  
Date Sampled: 06/22/06 08:40  
Percent Solids: 43  
Initial Volume: 3.9  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-12  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	14.9	1	06/23/06
1,1,1-Trichloroethane	ND	ug/Kg dry	14.9	1	06/23/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	14.9	1	06/23/06
1,1,2-Trichloroethane	ND	ug/Kg dry	14.9	1	06/23/06
1,1-Dichloroethane	ND	ug/Kg dry	14.9	1	06/23/06
1,1-Dichloroethene	ND	ug/Kg dry	14.9	1	06/23/06
1,1-Dichloropropene	ND	ug/Kg dry	14.9	1	06/23/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	14.9	1	06/23/06
1,2,3-Trichloropropane	ND	ug/Kg dry	14.9	1	06/23/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	14.9	1	06/23/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	14.9	1	06/23/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	14.9	1	06/23/06
1,2-Dibromoethane	ND	ug/Kg dry	14.9	1	06/23/06
1,2-Dichlorobenzene	ND	ug/Kg dry	14.9	1	06/23/06
1,2-Dichloroethane	ND	ug/Kg dry	14.9	1	06/23/06
1,2-Dichloropropane	ND	ug/Kg dry	14.9	1	06/23/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	14.9	1	06/23/06
1,3-Dichlorobenzene	ND	ug/Kg dry	14.9	1	06/23/06
1,3-Dichloropropane	ND	ug/Kg dry	14.9	1	06/23/06
1,4-Dichlorobenzene	ND	ug/Kg dry	14.9	1	06/23/06
1,4-Dioxane - Screen	ND	ug/Kg dry	745	1	06/23/06
1-Chlorohexane	ND	ug/Kg dry	14.9	1	06/23/06
2,2-Dichloropropane	ND	ug/Kg dry	14.9	1	06/23/06
2-Butanone	ND	ug/Kg dry	149	1	06/23/06
2-Chlorotoluene	ND	ug/Kg dry	14.9	1	06/23/06
2-Hexanone	ND	ug/Kg dry	149	1	06/23/06
4-Chlorotoluene	ND	ug/Kg dry	14.9	1	06/23/06
4-Isopropyltoluene	ND	ug/Kg dry	14.9	1	06/23/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	149	1	06/23/06
Acetone	421	ug/Kg dry	149	1	06/23/06
Benzene	ND	ug/Kg dry	14.9	1	06/23/06
Bromobenzene	ND	ug/Kg dry	14.9	1	06/23/06
Bromochloromethane	ND	ug/Kg dry	14.9	1	06/23/06
Bromodichloromethane	ND	ug/Kg dry	14.9	1	06/23/06
Bromoform	ND	ug/Kg dry	149	1	06/23/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2001  
Date Sampled: 06/22/06 08:40  
Percent Solids: 43  
Initial Volume: 3.9  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-12  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	29.8	1	06/23/06
Carbon Disulfide	ND	ug/Kg dry	14.9	1	06/23/06
Carbon Tetrachloride	ND	ug/Kg dry	14.9	1	06/23/06
Chlorobenzene	ND	ug/Kg dry	14.9	1	06/23/06
Chloroethane	ND	ug/Kg dry	29.8	1	06/23/06
Chloroform	ND	ug/Kg dry	14.9	1	06/23/06
Chloromethane	ND	ug/Kg dry	29.8	1	06/23/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	14.9	1	06/23/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	14.9	1	06/23/06
Dibromochloromethane	ND	ug/Kg dry	14.9	1	06/23/06
Dibromomethane	ND	ug/Kg dry	14.9	1	06/23/06
Dichlorodifluoromethane	ND	ug/Kg dry	29.8	1	06/23/06
Diethyl Ether	ND	ug/Kg dry	14.9	1	06/23/06
Di-isopropyl ether	ND	ug/Kg dry	14.9	1	06/23/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	14.9	1	06/23/06
Ethylbenzene	ND	ug/Kg dry	14.9	1	06/23/06
Hexachlorobutadiene	ND	ug/Kg dry	14.9	1	06/23/06
Isopropylbenzene	ND	ug/Kg dry	14.9	1	06/23/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	14.9	1	06/23/06
Methylene Chloride	ND	ug/Kg dry	74.5	1	06/23/06
Naphthalene	ND	ug/Kg dry	14.9	1	06/23/06
n-Butylbenzene	ND	ug/Kg dry	14.9	1	06/23/06
n-Propylbenzene	ND	ug/Kg dry	14.9	1	06/23/06
sec-Butylbenzene	ND	ug/Kg dry	14.9	1	06/23/06
Styrene	ND	ug/Kg dry	14.9	1	06/23/06
tert-Butylbenzene	ND	ug/Kg dry	14.9	1	06/23/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	14.9	1	06/23/06
Tetrachloroethene	ND	ug/Kg dry	14.9	1	06/23/06
Tetrahydrofuran	ND	ug/Kg dry	14.9	1	06/23/06
Toluene	ND	ug/Kg dry	14.9	1	06/23/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	14.9	1	06/23/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	14.9	1	06/23/06
Trichloroethene	ND	ug/Kg dry	14.9	1	06/23/06
Trichlorofluoromethane	ND	ug/Kg dry	14.9	1	06/23/06
Vinyl Chloride	ND	ug/Kg dry	29.8	1	06/23/06
Xylene O	ND	ug/Kg dry	14.9	1	06/23/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2001  
Date Sampled: 06/22/06 08:40  
Percent Solids: 43  
Initial Volume: 3.9  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-12  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	29.8	1	06/23/06
Xylenes (Total)	ND	ug/Kg dry	44.7		06/23/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	98 %		70-130
Surrogate: 4-Bromofluorobenzene	90 %		70-130
Surrogate: Dibromofluoromethane	102 %		70-130
Surrogate: Toluene-d8	105 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED2003

Date Sampled: 06/22/06 08:55

Percent Solids: 23

Initial Volume: 5.2

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-13

Sample Matrix: Soil

Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	20.9	1	06/23/06
1,1,1-Trichloroethane	ND	ug/Kg dry	20.9	1	06/23/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	20.9	1	06/23/06
1,1,2-Trichloroethane	ND	ug/Kg dry	20.9	1	06/23/06
1,1-Dichloroethane	ND	ug/Kg dry	20.9	1	06/23/06
1,1-Dichloroethene	ND	ug/Kg dry	20.9	1	06/23/06
1,1-Dichloropropene	ND	ug/Kg dry	20.9	1	06/23/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	20.9	1	06/23/06
1,2,3-Trichloropropane	ND	ug/Kg dry	20.9	1	06/23/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	20.9	1	06/23/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	20.9	1	06/23/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	20.9	1	06/23/06
1,2-Dibromoethane	ND	ug/Kg dry	20.9	1	06/23/06
1,2-Dichlorobenzene	ND	ug/Kg dry	20.9	1	06/23/06
1,2-Dichloroethane	ND	ug/Kg dry	20.9	1	06/23/06
1,2-Dichloropropane	ND	ug/Kg dry	20.9	1	06/23/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	20.9	1	06/23/06
1,3-Dichlorobenzene	ND	ug/Kg dry	20.9	1	06/23/06
1,3-Dichloropropane	ND	ug/Kg dry	20.9	1	06/23/06
1,4-Dichlorobenzene	ND	ug/Kg dry	20.9	1	06/23/06
1,4-Dioxane - Screen	ND	ug/Kg dry	1050	1	06/23/06
1-Chlorohexane	ND	ug/Kg dry	20.9	1	06/23/06
2,2-Dichloropropane	ND	ug/Kg dry	20.9	1	06/23/06
2-Butanone	ND	ug/Kg dry	209	1	06/23/06
2-Chlorotoluene	ND	ug/Kg dry	20.9	1	06/23/06
2-Hexanone	ND	ug/Kg dry	209	1	06/23/06
4-Chlorotoluene	ND	ug/Kg dry	20.9	1	06/23/06
4-Isopropyltoluene	ND	ug/Kg dry	20.9	1	06/23/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	209	1	06/23/06
Acetone	570	ug/Kg dry	209	1	06/23/06
Benzene	ND	ug/Kg dry	20.9	1	06/23/06
Bromobenzene	ND	ug/Kg dry	20.9	1	06/23/06
Bromochloromethane	ND	ug/Kg dry	20.9	1	06/23/06
Bromodichloromethane	ND	ug/Kg dry	20.9	1	06/23/06
Bromoform	ND	ug/Kg dry	209	1	06/23/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED2003

Date Sampled: 06/22/06 08:55

Percent Solids: 23

Initial Volume: 5.2

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-13

Sample Matrix: Soil

Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	41.8	1	06/23/06
Carbon Disulfide	ND	ug/Kg dry	20.9	1	06/23/06
Carbon Tetrachloride	ND	ug/Kg dry	20.9	1	06/23/06
Chlorobenzene	ND	ug/Kg dry	20.9	1	06/23/06
Chloroethane	ND	ug/Kg dry	41.8	1	06/23/06
Chloroform	ND	ug/Kg dry	20.9	1	06/23/06
Chloromethane	ND	ug/Kg dry	41.8	1	06/23/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	20.9	1	06/23/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	20.9	1	06/23/06
Dibromochloromethane	ND	ug/Kg dry	20.9	1	06/23/06
Dibromomethane	ND	ug/Kg dry	20.9	1	06/23/06
Dichlorodifluoromethane	ND	ug/Kg dry	41.8	1	06/23/06
Diethyl Ether	ND	ug/Kg dry	20.9	1	06/23/06
Di-isopropyl ether	ND	ug/Kg dry	20.9	1	06/23/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	20.9	1	06/23/06
Ethylbenzene	ND	ug/Kg dry	20.9	1	06/23/06
Hexachlorobutadiene	ND	ug/Kg dry	20.9	1	06/23/06
Isopropylbenzene	ND	ug/Kg dry	20.9	1	06/23/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	20.9	1	06/23/06
Methylene Chloride	ND	ug/Kg dry	105	1	06/23/06
Naphthalene	ND	ug/Kg dry	20.9	1	06/23/06
n-Butylbenzene	ND	ug/Kg dry	20.9	1	06/23/06
n-Propylbenzene	ND	ug/Kg dry	20.9	1	06/23/06
sec-Butylbenzene	ND	ug/Kg dry	20.9	1	06/23/06
Styrene	ND	ug/Kg dry	20.9	1	06/23/06
tert-Butylbenzene	ND	ug/Kg dry	20.9	1	06/23/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	20.9	1	06/23/06
Tetrachloroethene	ND	ug/Kg dry	20.9	1	06/23/06
Tetrahydrofuran	ND	ug/Kg dry	20.9	1	06/23/06
Toluene	ND	ug/Kg dry	20.9	1	06/23/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	20.9	1	06/23/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	20.9	1	06/23/06
Trichloroethene	ND	ug/Kg dry	20.9	1	06/23/06
Trichlorofluoromethane	ND	ug/Kg dry	20.9	1	06/23/06
Vinyl Chloride	ND	ug/Kg dry	41.8	1	06/23/06
Xylene O	ND	ug/Kg dry	284	1	06/23/06



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2003  
Date Sampled: 06/22/06 08:55  
Percent Solids: 23  
Initial Volume: 5.2  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-13  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	41.8	1	06/23/06
Xylenes (Total)	ND	ug/Kg dry	62.7		06/23/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	94 %		70-130
Surrogate: 4-Bromofluorobenzene	84 %		70-130
Surrogate: Dibromofluoromethane	100 %		70-130
Surrogate: Toluene-d8	103 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED1701

Date Sampled: 06/22/06 09:15

Percent Solids: 71

Initial Volume: 7.6

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-14

Sample Matrix: Soil

Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>		<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane		ND	ug/Kg dry	4.6	1	06/23/06
<b>1,1,1-Trichloroethane</b>	E	<b>732</b>	ug/Kg dry	4.6	1	06/23/06
1,1,2,2-Tetrachloroethane		ND	ug/Kg dry	4.6	1	06/23/06
1,1,2-Trichloroethane		ND	ug/Kg dry	4.6	1	06/23/06
<b>1,1-Dichloroethane</b>		<b>119</b>	ug/Kg dry	4.6	1	06/23/06
<b>1,1-Dichloroethene</b>		<b>55.5</b>	ug/Kg dry	4.6	1	06/23/06
1,1-Dichloropropene		ND	ug/Kg dry	4.6	1	06/23/06
1,2,3-Trichlorobenzene		ND	ug/Kg dry	4.6	1	06/23/06
1,2,3-Trichloropropane		ND	ug/Kg dry	4.6	1	06/23/06
1,2,4-Trichlorobenzene		ND	ug/Kg dry	4.6	1	06/23/06
1,2,4-Trimethylbenzene		ND	ug/Kg dry	4.6	1	06/23/06
1,2-Dibromo-3-Chloropropane		ND	ug/Kg dry	4.6	1	06/23/06
1,2-Dibromoethane		ND	ug/Kg dry	4.6	1	06/23/06
1,2-Dichlorobenzene		ND	ug/Kg dry	4.6	1	06/23/06
1,2-Dichloroethane		ND	ug/Kg dry	4.6	1	06/23/06
1,2-Dichloropropane		ND	ug/Kg dry	4.6	1	06/23/06
1,3,5-Trimethylbenzene		ND	ug/Kg dry	4.6	1	06/23/06
1,3-Dichlorobenzene		ND	ug/Kg dry	4.6	1	06/23/06
1,3-Dichloropropane		ND	ug/Kg dry	4.6	1	06/23/06
1,4-Dichlorobenzene		ND	ug/Kg dry	4.6	1	06/23/06
1,4-Dioxane - Screen		ND	ug/Kg dry	232	1	06/23/06
1-Chlorohexane		ND	ug/Kg dry	4.6	1	06/23/06
2,2-Dichloropropane		ND	ug/Kg dry	4.6	1	06/23/06
2-Butanone		ND	ug/Kg dry	46.3	1	06/23/06
2-Chlorotoluene		ND	ug/Kg dry	4.6	1	06/23/06
2-Hexanone		ND	ug/Kg dry	46.3	1	06/23/06
4-Chlorotoluene		ND	ug/Kg dry	4.6	1	06/23/06
4-Isopropyltoluene		ND	ug/Kg dry	4.6	1	06/23/06
4-Methyl-2-Pentanone		ND	ug/Kg dry	46.3	1	06/23/06
Acetone		ND	ug/Kg dry	46.3	1	06/23/06
Benzene		ND	ug/Kg dry	4.6	1	06/23/06
Bromobenzene		ND	ug/Kg dry	4.6	1	06/23/06
Bromochloromethane		ND	ug/Kg dry	4.6	1	06/23/06
Bromodichloromethane		ND	ug/Kg dry	4.6	1	06/23/06
Bromoform		ND	ug/Kg dry	<del>4.6</del>	1	06/23/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED1701

Date Sampled: 06/22/06 09:15

Percent Solids: 71

Initial Volume: 7.6

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-14

Sample Matrix: Soil

Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	9.3	1	06/23/06
<b>Carbon Disulfide</b>	<b>7.0</b>	ug/Kg dry	4.6	1	06/23/06
Carbon Tetrachloride	ND	ug/Kg dry	4.6	1	06/23/06
Chlorobenzene	ND	ug/Kg dry	4.6	1	06/23/06
Chloroethane	ND	ug/Kg dry	9.3	1	06/23/06
Chloroform	ND	ug/Kg dry	4.6	1	06/23/06
Chloromethane	ND	ug/Kg dry	9.3	1	06/23/06
<b>cis-1,2-Dichloroethene</b>	<b>29.8</b>	ug/Kg dry	4.6	1	06/23/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	4.6	1	06/23/06
Dibromochloromethane	ND	ug/Kg dry	4.6	1	06/23/06
Dibromomethane	ND	ug/Kg dry	4.6	1	06/23/06
Dichlorodifluoromethane	ND	ug/Kg dry	9.3	1	06/23/06
Diethyl Ether	ND	ug/Kg dry	4.6	1	06/23/06
Di-isopropyl ether	ND	ug/Kg dry	4.6	1	06/23/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	4.6	1	06/23/06
Ethylbenzene	ND	ug/Kg dry	4.6	1	06/23/06
Hexachlorobutadiene	ND	ug/Kg dry	4.6	1	06/23/06
Isopropylbenzene	ND	ug/Kg dry	4.6	1	06/23/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	4.6	1	06/23/06
Methylene Chloride	ND	ug/Kg dry	23.2	1	06/23/06
Naphthalene	ND	ug/Kg dry	4.6	1	06/23/06
n-Butylbenzene	ND	ug/Kg dry	4.6	1	06/23/06
n-Propylbenzene	ND	ug/Kg dry	4.6	1	06/23/06
sec-Butylbenzene	ND	ug/Kg dry	4.6	1	06/23/06
Styrene	ND	ug/Kg dry	4.6	1	06/23/06
tert-Butylbenzene	ND	ug/Kg dry	4.6	1	06/23/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	4.6	1	06/23/06
<b>Tetrachloroethene</b>	<b>8.1</b>	ug/Kg dry	4.6	1	06/23/06
Tetrahydrofuran	ND	ug/Kg dry	4.6	1	06/23/06
Toluene	ND	ug/Kg dry	4.6	1	06/23/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	4.6	1	06/23/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	4.6	1	06/23/06
<b>Trichloroethene</b>	<b>E 895</b>	ug/Kg dry	4.6	1	06/23/06
Trichlorofluoromethane	ND	ug/Kg dry	4.6	1	06/23/06
Vinyl Chloride	ND	ug/Kg dry	9.3	1	06/23/06
Xylene O	ND	ug/Kg dry	<del>4.6</del> <b>387</b>	1	06/23/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED1701

Date Sampled: 06/22/06 09:15

Percent Solids: 71

Initial Volume: 7.6

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-14

Sample Matrix: Soil

Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	9.3	1	06/23/06
Xylenes (Total)	ND	ug/Kg dry	13.9		06/23/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	94 %		70-130
Surrogate: 4-Bromofluorobenzene	95 %		70-130
Surrogate: Dibromofluoromethane	94 %		70-130
Surrogate: Toluene-d8	97 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED1704

Date Sampled: 06/22/06 09:30

Percent Solids: 81

Initial Volume: 6.8

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-15

Sample Matrix: Soil

Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	4.5	1	06/23/06
1,1,1-Trichloroethane	E 555	ug/Kg dry	4.5	1	06/23/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	4.5	1	06/23/06
1,1,2-Trichloroethane	ND	ug/Kg dry	4.5	1	06/23/06
1,1-Dichloroethane	31.0	ug/Kg dry	4.5	1	06/23/06
1,1-Dichloroethene	35.8	ug/Kg dry	4.5	1	06/23/06
1,1-Dichloropropene	ND	ug/Kg dry	4.5	1	06/23/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	4.5	1	06/23/06
1,2,3-Trichloropropane	ND	ug/Kg dry	4.5	1	06/23/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	4.5	1	06/23/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	4.5	1	06/23/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	4.5	1	06/23/06
1,2-Dibromoethane	ND	ug/Kg dry	4.5	1	06/23/06
1,2-Dichlorobenzene	ND	ug/Kg dry	4.5	1	06/23/06
1,2-Dichloroethane	ND	ug/Kg dry	4.5	1	06/23/06
1,2-Dichloropropane	ND	ug/Kg dry	4.5	1	06/23/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	4.5	1	06/23/06
1,3-Dichlorobenzene	ND	ug/Kg dry	4.5	1	06/23/06
1,3-Dichloropropane	ND	ug/Kg dry	4.5	1	06/23/06
1,4-Dichlorobenzene	ND	ug/Kg dry	4.5	1	06/23/06
1,4-Dioxane - Screen	ND	ug/Kg dry	227	1	06/23/06
1-Chlorohexane	ND	ug/Kg dry	4.5	1	06/23/06
2,2-Dichloropropane	ND	ug/Kg dry	4.5	1	06/23/06
2-Butanone	ND	ug/Kg dry	45.4	1	06/23/06
2-Chlorotoluene	ND	ug/Kg dry	4.5	1	06/23/06
2-Hexanone	ND	ug/Kg dry	45.4	1	06/23/06
4-Chlorotoluene	ND	ug/Kg dry	4.5	1	06/23/06
4-Isopropyltoluene	ND	ug/Kg dry	4.5	1	06/23/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	45.4	1	06/23/06
Acetone	ND	ug/Kg dry	45.4	1	06/23/06
Benzene	ND	ug/Kg dry	4.5	1	06/23/06
Bromobenzene	ND	ug/Kg dry	4.5	1	06/23/06
Bromochloromethane	ND	ug/Kg dry	4.5	1	06/23/06
Bromodichloromethane	ND	ug/Kg dry	4.5	1	06/23/06
Bromoform	ND	ug/Kg dry	4.589	1	06/23/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED1704

Date Sampled: 06/22/06 09:30

Percent Solids: 81

Initial Volume: 6.8

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-15

Sample Matrix: Soil

Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	9.1	1	06/23/06
Carbon Disulfide	ND	ug/Kg dry	4.5	1	06/23/06
Carbon Tetrachloride	ND	ug/Kg dry	4.5	1	06/23/06
Chlorobenzene	ND	ug/Kg dry	4.5	1	06/23/06
Chloroethane	ND	ug/Kg dry	9.1	1	06/23/06
Chloroform	ND	ug/Kg dry	4.5	1	06/23/06
Chloromethane	ND	ug/Kg dry	9.1	1	06/23/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	4.5	1	06/23/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	4.5	1	06/23/06
Dibromochloromethane	ND	ug/Kg dry	4.5	1	06/23/06
Dibromomethane	ND	ug/Kg dry	4.5	1	06/23/06
Dichlorodifluoromethane	ND	ug/Kg dry	9.1	1	06/23/06
Diethyl Ether	ND	ug/Kg dry	4.5	1	06/23/06
Di-isopropyl ether	ND	ug/Kg dry	4.5	1	06/23/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	4.5	1	06/23/06
Ethylbenzene	ND	ug/Kg dry	4.5	1	06/23/06
Hexachlorobutadiene	ND	ug/Kg dry	4.5	1	06/23/06
Isopropylbenzene	ND	ug/Kg dry	4.5	1	06/23/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	4.5	1	06/23/06
Methylene Chloride	ND	ug/Kg dry	22.7	1	06/23/06
Naphthalene	ND	ug/Kg dry	4.5	1	06/23/06
n-Butylbenzene	ND	ug/Kg dry	4.5	1	06/23/06
n-Propylbenzene	ND	ug/Kg dry	4.5	1	06/23/06
sec-Butylbenzene	ND	ug/Kg dry	4.5	1	06/23/06
Styrene	ND	ug/Kg dry	4.5	1	06/23/06
tert-Butylbenzene	ND	ug/Kg dry	4.5	1	06/23/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	4.5	1	06/23/06
Tetrachloroethene	ND	ug/Kg dry	4.5	1	06/23/06
Tetrahydrofuran	ND	ug/Kg dry	4.5	1	06/23/06
Toluene	ND	ug/Kg dry	4.5	1	06/23/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	4.5	1	06/23/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	4.5	1	06/23/06
<b>Trichloroethene</b>	E 407	ug/Kg dry	4.5	1	06/23/06
Trichlorofluoromethane	ND	ug/Kg dry	4.5	1	06/23/06
Vinyl Chloride	ND	ug/Kg dry	9.1	1	06/23/06
Xylene O	ND	ug/Kg dry	4390	1	06/23/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED1704

Date Sampled: 06/22/06 09:30

Percent Solids: 81

Initial Volume: 6.8

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-15

Sample Matrix: Soil

Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	9.1	1	06/23/06
Xylenes (Total)	ND	ug/Kg dry	13.6		06/23/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	95 %		70-130
Surrogate: 4-Bromofluorobenzene	96 %		70-130
Surrogate: Dibromofluoromethane	95 %		70-130
Surrogate: Toluene-d8	95 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1001  
Date Sampled: 06/22/06 09:45  
Percent Solids: 85  
Initial Volume: 7.3  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-16  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	4.0	1	06/23/06
1,1,1-Trichloroethane	ND	ug/Kg dry	4.0	1	06/23/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	4.0	1	06/23/06
1,1,2-Trichloroethane	ND	ug/Kg dry	4.0	1	06/23/06
1,1-Dichloroethane	ND	ug/Kg dry	4.0	1	06/23/06
1,1-Dichloroethene	ND	ug/Kg dry	4.0	1	06/23/06
1,1-Dichloropropene	ND	ug/Kg dry	4.0	1	06/23/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	4.0	1	06/23/06
1,2,3-Trichloropropane	ND	ug/Kg dry	4.0	1	06/23/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	4.0	1	06/23/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	4.0	1	06/23/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	4.0	1	06/23/06
1,2-Dibromoethane	ND	ug/Kg dry	4.0	1	06/23/06
1,2-Dichlorobenzene	ND	ug/Kg dry	4.0	1	06/23/06
1,2-Dichloroethane	ND	ug/Kg dry	4.0	1	06/23/06
1,2-Dichloropropane	ND	ug/Kg dry	4.0	1	06/23/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	4.0	1	06/23/06
1,3-Dichlorobenzene	ND	ug/Kg dry	4.0	1	06/23/06
1,3-Dichloropropane	ND	ug/Kg dry	4.0	1	06/23/06
1,4-Dichlorobenzene	ND	ug/Kg dry	4.0	1	06/23/06
1,4-Dioxane - Screen	ND	ug/Kg dry	201	1	06/23/06
1-Chlorohexane	ND	ug/Kg dry	4.0	1	06/23/06
2,2-Dichloropropane	ND	ug/Kg dry	4.0	1	06/23/06
2-Butanone	ND	ug/Kg dry	40.3	1	06/23/06
2-Chlorotoluene	ND	ug/Kg dry	4.0	1	06/23/06
2-Hexanone	ND	ug/Kg dry	40.3	1	06/23/06
4-Chlorotoluene	ND	ug/Kg dry	4.0	1	06/23/06
4-Isopropyltoluene	ND	ug/Kg dry	4.0	1	06/23/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	40.3	1	06/23/06
Acetone	ND	ug/Kg dry	40.3	1	06/23/06
Benzene	ND	ug/Kg dry	4.0	1	06/23/06
Bromobenzene	ND	ug/Kg dry	4.0	1	06/23/06
Bromochloromethane	ND	ug/Kg dry	4.0	1	06/23/06
Bromodichloromethane	ND	ug/Kg dry	4.0	1	06/23/06
Bromoform	ND	ug/Kg dry	4.0	1	06/23/06



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1001  
Date Sampled: 06/22/06 09:45  
Percent Solids: 85  
Initial Volume: 7.3  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-16  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	8.1	1	06/23/06
Carbon Disulfide	ND	ug/Kg dry	4.0	1	06/23/06
Carbon Tetrachloride	ND	ug/Kg dry	4.0	1	06/23/06
Chlorobenzene	ND	ug/Kg dry	4.0	1	06/23/06
Chloroethane	ND	ug/Kg dry	8.1	1	06/23/06
Chloroform	ND	ug/Kg dry	4.0	1	06/23/06
Chloromethane	ND	ug/Kg dry	8.1	1	06/23/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	4.0	1	06/23/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	4.0	1	06/23/06
Dibromochloromethane	ND	ug/Kg dry	4.0	1	06/23/06
Dibromomethane	ND	ug/Kg dry	4.0	1	06/23/06
Dichlorodifluoromethane	ND	ug/Kg dry	8.1	1	06/23/06
Diethyl Ether	ND	ug/Kg dry	4.0	1	06/23/06
Di-isopropyl ether	ND	ug/Kg dry	4.0	1	06/23/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	4.0	1	06/23/06
Ethylbenzene	ND	ug/Kg dry	4.0	1	06/23/06
Hexachlorobutadiene	ND	ug/Kg dry	4.0	1	06/23/06
Isopropylbenzene	ND	ug/Kg dry	4.0	1	06/23/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	4.0	1	06/23/06
Methylene Chloride	ND	ug/Kg dry	20.1	1	06/23/06
Naphthalene	ND	ug/Kg dry	4.0	1	06/23/06
n-Butylbenzene	ND	ug/Kg dry	4.0	1	06/23/06
n-Propylbenzene	ND	ug/Kg dry	4.0	1	06/23/06
sec-Butylbenzene	ND	ug/Kg dry	4.0	1	06/23/06
Styrene	ND	ug/Kg dry	4.0	1	06/23/06
tert-Butylbenzene	ND	ug/Kg dry	4.0	1	06/23/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	4.0	1	06/23/06
Tetrachloroethene	ND	ug/Kg dry	4.0	1	06/23/06
Tetrahydrofuran	ND	ug/Kg dry	4.0	1	06/23/06
Toluene	ND	ug/Kg dry	4.0	1	06/23/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	4.0	1	06/23/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	4.0	1	06/23/06
Trichloroethene	ND	ug/Kg dry	4.0	1	06/23/06
Trichlorofluoromethane	ND	ug/Kg dry	4.0	1	06/23/06
Vinyl Chloride	ND	ug/Kg dry	8.1	1	06/23/06
Xylene O	ND	ug/Kg dry	4.893	1	06/23/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1001  
Date Sampled: 06/22/06 09:45  
Percent Solids: 85  
Initial Volume: 7.3  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-16  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	8.1	1	06/23/06
Xylenes (Total)	ND	ug/Kg dry	12.1		06/23/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	96 %		70-130
Surrogate: 4-Bromofluorobenzene	95 %		70-130
Surrogate: Dibromofluoromethane	101 %		70-130
Surrogate: Toluene-d8	95 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1003  
Date Sampled: 06/22/06 09:55  
Percent Solids: 73  
Initial Volume: 7.4  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-17  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	4.6	1	06/23/06
1,1,1-Trichloroethane	ND	ug/Kg dry	4.6	1	06/23/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	4.6	1	06/23/06
1,1,2-Trichloroethane	ND	ug/Kg dry	4.6	1	06/23/06
1,1-Dichloroethane	ND	ug/Kg dry	4.6	1	06/23/06
1,1-Dichloroethene	ND	ug/Kg dry	4.6	1	06/23/06
1,1-Dichloropropene	ND	ug/Kg dry	4.6	1	06/23/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	4.6	1	06/23/06
1,2,3-Trichloropropane	ND	ug/Kg dry	4.6	1	06/23/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	4.6	1	06/23/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	4.6	1	06/23/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	4.6	1	06/23/06
1,2-Dibromoethane	ND	ug/Kg dry	4.6	1	06/23/06
1,2-Dichlorobenzene	ND	ug/Kg dry	4.6	1	06/23/06
1,2-Dichloroethane	ND	ug/Kg dry	4.6	1	06/23/06
1,2-Dichloropropane	ND	ug/Kg dry	4.6	1	06/23/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	4.6	1	06/23/06
1,3-Dichlorobenzene	ND	ug/Kg dry	4.6	1	06/23/06
1,3-Dichloropropane	ND	ug/Kg dry	4.6	1	06/23/06
1,4-Dichlorobenzene	ND	ug/Kg dry	4.6	1	06/23/06
1,4-Dioxane - Screen	ND	ug/Kg dry	231	1	06/23/06
1-Chlorohexane	ND	ug/Kg dry	4.6	1	06/23/06
2,2-Dichloropropane	ND	ug/Kg dry	4.6	1	06/23/06
2-Butanone	ND	ug/Kg dry	46.3	1	06/23/06
2-Chlorotoluene	ND	ug/Kg dry	4.6	1	06/23/06
2-Hexanone	ND	ug/Kg dry	46.3	1	06/23/06
4-Chlorotoluene	ND	ug/Kg dry	4.6	1	06/23/06
4-Isopropyltoluene	ND	ug/Kg dry	4.6	1	06/23/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	46.3	1	06/23/06
Acetone	ND	ug/Kg dry	46.3	1	06/23/06
Benzene	ND	ug/Kg dry	4.6	1	06/23/06
Bromobenzene	ND	ug/Kg dry	4.6	1	06/23/06
Bromochloromethane	ND	ug/Kg dry	4.6	1	06/23/06
Bromodichloromethane	ND	ug/Kg dry	4.6	1	06/23/06
Bromoform	ND	ug/Kg dry	4.6	1	06/23/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1003  
Date Sampled: 06/22/06 09:55  
Percent Solids: 73  
Initial Volume: 7.4  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-17  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	9.3	1	06/23/06
Carbon Disulfide	ND	ug/Kg dry	4.6	1	06/23/06
Carbon Tetrachloride	ND	ug/Kg dry	4.6	1	06/23/06
Chlorobenzene	ND	ug/Kg dry	4.6	1	06/23/06
Chloroethane	ND	ug/Kg dry	9.3	1	06/23/06
Chloroform	ND	ug/Kg dry	4.6	1	06/23/06
Chloromethane	ND	ug/Kg dry	9.3	1	06/23/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	4.6	1	06/23/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	4.6	1	06/23/06
Dibromochloromethane	ND	ug/Kg dry	4.6	1	06/23/06
Dibromomethane	ND	ug/Kg dry	4.6	1	06/23/06
Dichlorodifluoromethane	ND	ug/Kg dry	9.3	1	06/23/06
Diethyl Ether	ND	ug/Kg dry	4.6	1	06/23/06
Di-isopropyl ether	ND	ug/Kg dry	4.6	1	06/23/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	4.6	1	06/23/06
Ethylbenzene	ND	ug/Kg dry	4.6	1	06/23/06
Hexachlorobutadiene	ND	ug/Kg dry	4.6	1	06/23/06
Isopropylbenzene	ND	ug/Kg dry	4.6	1	06/23/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	4.6	1	06/23/06
Methylene Chloride	ND	ug/Kg dry	23.1	1	06/23/06
Naphthalene	ND	ug/Kg dry	4.6	1	06/23/06
n-Butylbenzene	ND	ug/Kg dry	4.6	1	06/23/06
n-Propylbenzene	ND	ug/Kg dry	4.6	1	06/23/06
sec-Butylbenzene	ND	ug/Kg dry	4.6	1	06/23/06
Styrene	ND	ug/Kg dry	4.6	1	06/23/06
tert-Butylbenzene	ND	ug/Kg dry	4.6	1	06/23/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	4.6	1	06/23/06
Tetrachloroethene	ND	ug/Kg dry	4.6	1	06/23/06
Tetrahydrofuran	ND	ug/Kg dry	4.6	1	06/23/06
Toluene	ND	ug/Kg dry	4.6	1	06/23/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	4.6	1	06/23/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	4.6	1	06/23/06
Trichloroethene	ND	ug/Kg dry	4.6	1	06/23/06
Trichlorofluoromethane	ND	ug/Kg dry	4.6	1	06/23/06
Vinyl Chloride	ND	ug/Kg dry	9.3	1	06/23/06
Xylene O	ND	ug/Kg dry	4.6	1	06/23/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED1003

Date Sampled: 06/22/06 09:55

Percent Solids: 73

Initial Volume: 7.4

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-17

Sample Matrix: Soil

Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	9.3	1	06/23/06
Xylenes (Total)	ND	ug/Kg dry	13.9		06/23/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	97 %		70-130
Surrogate: 4-Bromofluorobenzene	94 %		70-130
Surrogate: Dibromofluoromethane	102 %		70-130
Surrogate: Toluene-d8	95 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1101  
Date Sampled: 06/22/06 10:15  
Percent Solids: 15  
Initial Volume: 3.9  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-18  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	42.7	1	06/26/06
1,1,1-Trichloroethane	ND	ug/Kg dry	42.7	1	06/26/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	42.7	1	06/26/06
1,1,2-Trichloroethane	ND	ug/Kg dry	42.7	1	06/26/06
1,1-Dichloroethane	ND	ug/Kg dry	42.7	1	06/26/06
1,1-Dichloroethene	ND	ug/Kg dry	42.7	1	06/26/06
1,1-Dichloropropene	ND	ug/Kg dry	42.7	1	06/26/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	42.7	1	06/26/06
1,2,3-Trichloropropane	ND	ug/Kg dry	42.7	1	06/26/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	42.7	1	06/26/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	42.7	1	06/26/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	42.7	1	06/26/06
1,2-Dibromoethane	ND	ug/Kg dry	42.7	1	06/26/06
1,2-Dichlorobenzene	ND	ug/Kg dry	42.7	1	06/26/06
1,2-Dichloroethane	ND	ug/Kg dry	42.7	1	06/26/06
1,2-Dichloropropane	ND	ug/Kg dry	42.7	1	06/26/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	42.7	1	06/26/06
1,3-Dichlorobenzene	ND	ug/Kg dry	42.7	1	06/26/06
1,3-Dichloropropane	ND	ug/Kg dry	42.7	1	06/26/06
1,4-Dichlorobenzene	ND	ug/Kg dry	42.7	1	06/26/06
1,4-Dioxane - Screen	ND	ug/Kg dry	2140	1	06/26/06
1-Chlorohexane	ND	ug/Kg dry	42.7	1	06/26/06
2,2-Dichloropropane	ND	ug/Kg dry	42.7	1	06/26/06
2-Butanone	ND	ug/Kg dry	42.7	1	06/26/06
2-Chlorotoluene	ND	ug/Kg dry	42.7	1	06/26/06
2-Hexanone	ND	ug/Kg dry	42.7	1	06/26/06
4-Chlorotoluene	ND	ug/Kg dry	42.7	1	06/26/06
4-Isopropyltoluene	ND	ug/Kg dry	42.7	1	06/26/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	42.7	1	06/26/06
<b>Acetone</b>	<b>649</b>	ug/Kg dry	42.7	1	06/26/06
Benzene	ND	ug/Kg dry	42.7	1	06/26/06
Bromobenzene	ND	ug/Kg dry	42.7	1	06/26/06
Bromochloromethane	ND	ug/Kg dry	42.7	1	06/26/06
Bromodichloromethane	ND	ug/Kg dry	42.7	1	06/26/06
Bromoform	ND	ug/Kg dry	42.7	1	06/26/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1101  
Date Sampled: 06/22/06 10:15  
Percent Solids: 15  
Initial Volume: 3.9  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-18  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	85.5	1	06/26/06
Carbon Disulfide	ND	ug/Kg dry	42.7	1	06/26/06
Carbon Tetrachloride	ND	ug/Kg dry	42.7	1	06/26/06
Chlorobenzene	ND	ug/Kg dry	42.7	1	06/26/06
Chloroethane	ND	ug/Kg dry	85.5	1	06/26/06
Chloroform	ND	ug/Kg dry	42.7	1	06/26/06
Chloromethane	ND	ug/Kg dry	85.5	1	06/26/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	42.7	1	06/26/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	42.7	1	06/26/06
Dibromochloromethane	ND	ug/Kg dry	42.7	1	06/26/06
Dibromomethane	ND	ug/Kg dry	42.7	1	06/26/06
Dichlorodifluoromethane	ND	ug/Kg dry	85.5	1	06/26/06
Diethyl Ether	ND	ug/Kg dry	42.7	1	06/26/06
Di-isopropyl ether	ND	ug/Kg dry	42.7	1	06/26/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	42.7	1	06/26/06
Ethylbenzene	ND	ug/Kg dry	42.7	1	06/26/06
Hexachlorobutadiene	ND	ug/Kg dry	42.7	1	06/26/06
Isopropylbenzene	ND	ug/Kg dry	42.7	1	06/26/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	42.7	1	06/26/06
Methylene Chloride	ND	ug/Kg dry	214	1	06/26/06
Naphthalene	ND	ug/Kg dry	42.7	1	06/26/06
n-Butylbenzene	ND	ug/Kg dry	42.7	1	06/26/06
n-Propylbenzene	ND	ug/Kg dry	42.7	1	06/26/06
sec-Butylbenzene	ND	ug/Kg dry	42.7	1	06/26/06
Styrene	ND	ug/Kg dry	42.7	1	06/26/06
tert-Butylbenzene	ND	ug/Kg dry	42.7	1	06/26/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	42.7	1	06/26/06
Tetrachloroethene	ND	ug/Kg dry	42.7	1	06/26/06
Tetrahydrofuran	ND	ug/Kg dry	42.7	1	06/26/06
Toluene	ND	ug/Kg dry	42.7	1	06/26/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	42.7	1	06/26/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	42.7	1	06/26/06
Trichloroethene	ND	ug/Kg dry	42.7	1	06/26/06
Trichlorofluoromethane	ND	ug/Kg dry	42.7	1	06/26/06
Vinyl Chloride	ND	ug/Kg dry	85.5	1	06/26/06
Xylene O	ND	ug/Kg dry	42.399	1	06/26/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1101  
Date Sampled: 06/22/06 10:15  
Percent Solids: 15  
Initial Volume: 3.9  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-18  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	85.5	1	06/26/06
Xylenes (Total)	ND	ug/Kg dry	128		06/26/06

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	90 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	82 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	100 %		70-130
<i>Surrogate: Toluene-d8</i>	104 %		70-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1103  
Date Sampled: 06/22/06 10:30  
Percent Solids: 75  
Initial Volume: 7.3  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-19  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	4.6	1	06/26/06
1,1,1-Trichloroethane	ND	ug/Kg dry	4.6	1	06/26/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	4.6	1	06/26/06
1,1,2-Trichloroethane	ND	ug/Kg dry	4.6	1	06/26/06
1,1-Dichloroethane	ND	ug/Kg dry	4.6	1	06/26/06
1,1-Dichloroethene	ND	ug/Kg dry	4.6	1	06/26/06
1,1-Dichloropropene	ND	ug/Kg dry	4.6	1	06/26/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	4.6	1	06/26/06
1,2,3-Trichloropropane	ND	ug/Kg dry	4.6	1	06/26/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	4.6	1	06/26/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	4.6	1	06/26/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	4.6	1	06/26/06
1,2-Dibromoethane	ND	ug/Kg dry	4.6	1	06/26/06
1,2-Dichlorobenzene	ND	ug/Kg dry	4.6	1	06/26/06
1,2-Dichloroethane	ND	ug/Kg dry	4.6	1	06/26/06
1,2-Dichloropropane	ND	ug/Kg dry	4.6	1	06/26/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	4.6	1	06/26/06
1,3-Dichlorobenzene	ND	ug/Kg dry	4.6	1	06/26/06
1,3-Dichloropropane	ND	ug/Kg dry	4.6	1	06/26/06
1,4-Dichlorobenzene	ND	ug/Kg dry	4.6	1	06/26/06
1,4-Dioxane - Screen	ND	ug/Kg dry	228	1	06/26/06
1-Chlorohexane	ND	ug/Kg dry	4.6	1	06/26/06
2,2-Dichloropropane	ND	ug/Kg dry	4.6	1	06/26/06
2-Butanone	ND	ug/Kg dry	45.7	1	06/26/06
2-Chlorotoluene	ND	ug/Kg dry	4.6	1	06/26/06
2-Hexanone	ND	ug/Kg dry	45.7	1	06/26/06
4-Chlorotoluene	ND	ug/Kg dry	4.6	1	06/26/06
4-Isopropyltoluene	ND	ug/Kg dry	4.6	1	06/26/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	45.7	1	06/26/06
<b>Acetone</b>	<b>79.0</b>	ug/Kg dry	45.7	1	06/26/06
Benzene	ND	ug/Kg dry	4.6	1	06/26/06
Bromobenzene	ND	ug/Kg dry	4.6	1	06/26/06
Bromochloromethane	ND	ug/Kg dry	4.6	1	06/26/06
Bromodichloromethane	ND	ug/Kg dry	4.6	1	06/26/06
Bromoform	ND	ug/Kg dry	<b>4401</b>	1	06/26/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED1103

Date Sampled: 06/22/06 10:30

Percent Solids: 75

Initial Volume: 7.3

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-19

Sample Matrix: Soil

Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	9.1	1	06/26/06
Carbon Disulfide	ND	ug/Kg dry	4.6	1	06/26/06
Carbon Tetrachloride	ND	ug/Kg dry	4.6	1	06/26/06
Chlorobenzene	ND	ug/Kg dry	4.6	1	06/26/06
Chloroethane	ND	ug/Kg dry	9.1	1	06/26/06
Chloroform	ND	ug/Kg dry	4.6	1	06/26/06
Chloromethane	ND	ug/Kg dry	9.1	1	06/26/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	4.6	1	06/26/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	4.6	1	06/26/06
Dibromochloromethane	ND	ug/Kg dry	4.6	1	06/26/06
Dibromomethane	ND	ug/Kg dry	4.6	1	06/26/06
Dichlorodifluoromethane	ND	ug/Kg dry	9.1	1	06/26/06
Diethyl Ether	ND	ug/Kg dry	4.6	1	06/26/06
Di-isopropyl ether	ND	ug/Kg dry	4.6	1	06/26/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	4.6	1	06/26/06
Ethylbenzene	ND	ug/Kg dry	4.6	1	06/26/06
Hexachlorobutadiene	ND	ug/Kg dry	4.6	1	06/26/06
Isopropylbenzene	ND	ug/Kg dry	4.6	1	06/26/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	4.6	1	06/26/06
Methylene Chloride	ND	ug/Kg dry	22.8	1	06/26/06
Naphthalene	ND	ug/Kg dry	4.6	1	06/26/06
n-Butylbenzene	ND	ug/Kg dry	4.6	1	06/26/06
n-Propylbenzene	ND	ug/Kg dry	4.6	1	06/26/06
sec-Butylbenzene	ND	ug/Kg dry	4.6	1	06/26/06
Styrene	ND	ug/Kg dry	4.6	1	06/26/06
tert-Butylbenzene	ND	ug/Kg dry	4.6	1	06/26/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	4.6	1	06/26/06
Tetrachloroethene	ND	ug/Kg dry	4.6	1	06/26/06
Tetrahydrofuran	ND	ug/Kg dry	4.6	1	06/26/06
Toluene	ND	ug/Kg dry	4.6	1	06/26/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	4.6	1	06/26/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	4.6	1	06/26/06
Trichloroethene	ND	ug/Kg dry	4.6	1	06/26/06
Trichlorofluoromethane	ND	ug/Kg dry	4.6	1	06/26/06
Vinyl Chloride	ND	ug/Kg dry	9.1	1	06/26/06
Xylene O	ND	ug/Kg dry	4402	1	06/26/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1103  
Date Sampled: 06/22/06 10:30  
Percent Solids: 75  
Initial Volume: 7.3  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-19  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	9.1	1	06/26/06
Xylenes (Total)	ND	ug/Kg dry	13.7		06/26/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	95 %		70-130
Surrogate: 4-Bromofluorobenzene	94 %		70-130
Surrogate: Dibromofluoromethane	101 %		70-130
Surrogate: Toluene-d8	96 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1201  
Date Sampled: 06/22/06 11:01  
Percent Solids: 45  
Initial Volume: 9.2  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-20  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	6.0	1	06/26/06
1,1,1-Trichloroethane	ND	ug/Kg dry	6.0	1	06/26/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	6.0	1	06/26/06
1,1,2-Trichloroethane	ND	ug/Kg dry	6.0	1	06/26/06
1,1-Dichloroethane	ND	ug/Kg dry	6.0	1	06/26/06
1,1-Dichloroethene	ND	ug/Kg dry	6.0	1	06/26/06
1,1-Dichloropropene	ND	ug/Kg dry	6.0	1	06/26/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	6.0	1	06/26/06
1,2,3-Trichloropropane	ND	ug/Kg dry	6.0	1	06/26/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	6.0	1	06/26/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	6.0	1	06/26/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	6.0	1	06/26/06
1,2-Dibromoethane	ND	ug/Kg dry	6.0	1	06/26/06
1,2-Dichlorobenzene	ND	ug/Kg dry	6.0	1	06/26/06
1,2-Dichloroethane	ND	ug/Kg dry	6.0	1	06/26/06
1,2-Dichloropropane	ND	ug/Kg dry	6.0	1	06/26/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	6.0	1	06/26/06
1,3-Dichlorobenzene	ND	ug/Kg dry	6.0	1	06/26/06
1,3-Dichloropropane	ND	ug/Kg dry	6.0	1	06/26/06
1,4-Dichlorobenzene	ND	ug/Kg dry	6.0	1	06/26/06
1,4-Dioxane - Screen	ND	ug/Kg dry	302	1	06/26/06
1-Chlorohexane	ND	ug/Kg dry	6.0	1	06/26/06
2,2-Dichloropropane	ND	ug/Kg dry	6.0	1	06/26/06
2-Butanone	ND	ug/Kg dry	60.4	1	06/26/06
2-Chlorotoluene	ND	ug/Kg dry	6.0	1	06/26/06
2-Hexanone	ND	ug/Kg dry	60.4	1	06/26/06
4-Chlorotoluene	ND	ug/Kg dry	6.0	1	06/26/06
4-Isopropyltoluene	ND	ug/Kg dry	6.0	1	06/26/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	60.4	1	06/26/06
<b>Acetone</b>	<b>75.7</b>	ug/Kg dry	60.4	1	06/26/06
Benzene	ND	ug/Kg dry	6.0	1	06/26/06
Bromobenzene	ND	ug/Kg dry	6.0	1	06/26/06
Bromochloromethane	ND	ug/Kg dry	6.0	1	06/26/06
Bromodichloromethane	ND	ug/Kg dry	6.0	1	06/26/06
Bromoform	ND	ug/Kg dry	6.0	1	06/26/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED1201

Date Sampled: 06/22/06 11:01

Percent Solids: 45

Initial Volume: 9.2

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-20

Sample Matrix: Soil

Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	12.1	1	06/26/06
Carbon Disulfide	ND	ug/Kg dry	6.0	1	06/26/06
Carbon Tetrachloride	ND	ug/Kg dry	6.0	1	06/26/06
Chlorobenzene	ND	ug/Kg dry	6.0	1	06/26/06
Chloroethane	ND	ug/Kg dry	12.1	1	06/26/06
Chloroform	ND	ug/Kg dry	6.0	1	06/26/06
Chloromethane	ND	ug/Kg dry	12.1	1	06/26/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	6.0	1	06/26/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	6.0	1	06/26/06
Dibromochloromethane	ND	ug/Kg dry	6.0	1	06/26/06
Dibromomethane	ND	ug/Kg dry	6.0	1	06/26/06
Dichlorodifluoromethane	ND	ug/Kg dry	12.1	1	06/26/06
Diethyl Ether	ND	ug/Kg dry	6.0	1	06/26/06
Di-isopropyl ether	ND	ug/Kg dry	6.0	1	06/26/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	6.0	1	06/26/06
Ethylbenzene	ND	ug/Kg dry	6.0	1	06/26/06
Hexachlorobutadiene	ND	ug/Kg dry	6.0	1	06/26/06
Isopropylbenzene	ND	ug/Kg dry	6.0	1	06/26/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	6.0	1	06/26/06
Methylene Chloride	ND	ug/Kg dry	30.2	1	06/26/06
Naphthalene	ND	ug/Kg dry	6.0	1	06/26/06
n-Butylbenzene	ND	ug/Kg dry	6.0	1	06/26/06
n-Propylbenzene	ND	ug/Kg dry	6.0	1	06/26/06
sec-Butylbenzene	ND	ug/Kg dry	6.0	1	06/26/06
Styrene	ND	ug/Kg dry	6.0	1	06/26/06
tert-Butylbenzene	ND	ug/Kg dry	6.0	1	06/26/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	6.0	1	06/26/06
Tetrachloroethene	ND	ug/Kg dry	6.0	1	06/26/06
Tetrahydrofuran	ND	ug/Kg dry	6.0	1	06/26/06
Toluene	ND	ug/Kg dry	6.0	1	06/26/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	6.0	1	06/26/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	6.0	1	06/26/06
Trichloroethene	ND	ug/Kg dry	6.0	1	06/26/06
Trichlorofluoromethane	ND	ug/Kg dry	6.0	1	06/26/06
Vinyl Chloride	ND	ug/Kg dry	12.1	1	06/26/06
Xylene O	ND	ug/Kg dry	6.0	1	06/26/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1201  
Date Sampled: 06/22/06 11:01  
Percent Solids: 45  
Initial Volume: 9.2  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-20  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	12.1	1	06/26/06
Xylenes (Total)	ND	ug/Kg dry	18.1		06/26/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	96 %		70-130
Surrogate: 4-Bromofluorobenzene	95 %		70-130
Surrogate: Dibromofluoromethane	100 %		70-130
Surrogate: Toluene-d8	94 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED1203

Date Sampled: 06/22/06 11:15

Percent Solids: 76

Initial Volume: 8.3

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-21

Sample Matrix: Soil

Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	4.0	1	06/26/06
1,1,1-Trichloroethane	ND	ug/Kg dry	4.0	1	06/26/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	4.0	1	06/26/06
1,1,2-Trichloroethane	ND	ug/Kg dry	4.0	1	06/26/06
1,1-Dichloroethane	ND	ug/Kg dry	4.0	1	06/26/06
1,1-Dichloroethene	ND	ug/Kg dry	4.0	1	06/26/06
1,1-Dichloropropene	ND	ug/Kg dry	4.0	1	06/26/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	4.0	1	06/26/06
1,2,3-Trichloropropane	ND	ug/Kg dry	4.0	1	06/26/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	4.0	1	06/26/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	4.0	1	06/26/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	4.0	1	06/26/06
1,2-Dibromoethane	ND	ug/Kg dry	4.0	1	06/26/06
1,2-Dichlorobenzene	ND	ug/Kg dry	4.0	1	06/26/06
1,2-Dichloroethane	ND	ug/Kg dry	4.0	1	06/26/06
1,2-Dichloropropane	ND	ug/Kg dry	4.0	1	06/26/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	4.0	1	06/26/06
1,3-Dichlorobenzene	ND	ug/Kg dry	4.0	1	06/26/06
1,3-Dichloropropane	ND	ug/Kg dry	4.0	1	06/26/06
1,4-Dichlorobenzene	ND	ug/Kg dry	4.0	1	06/26/06
1,4-Dioxane - Screen	ND	ug/Kg dry	198	1	06/26/06
1-Chlorohexane	ND	ug/Kg dry	4.0	1	06/26/06
2,2-Dichloropropane	ND	ug/Kg dry	4.0	1	06/26/06
2-Butanone	ND	ug/Kg dry	39.6	1	06/26/06
2-Chlorotoluene	ND	ug/Kg dry	4.0	1	06/26/06
2-Hexanone	ND	ug/Kg dry	39.6	1	06/26/06
4-Chlorotoluene	ND	ug/Kg dry	4.0	1	06/26/06
4-Isopropyltoluene	ND	ug/Kg dry	4.0	1	06/26/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	39.6	1	06/26/06
Acetone	ND	ug/Kg dry	39.6	1	06/26/06
Benzene	ND	ug/Kg dry	4.0	1	06/26/06
Bromobenzene	ND	ug/Kg dry	4.0	1	06/26/06
Bromochloromethane	ND	ug/Kg dry	4.0	1	06/26/06
Bromodichloromethane	ND	ug/Kg dry	4.0	1	06/26/06
Bromoform	ND	ug/Kg dry	4407	1	06/26/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED1203

Date Sampled: 06/22/06 11:15

Percent Solids: 76

Initial Volume: 8.3

Final Volume: 10

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-21

Sample Matrix: Soil

Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	7.9	1	06/26/06
Carbon Disulfide	ND	ug/Kg dry	4.0	1	06/26/06
Carbon Tetrachloride	ND	ug/Kg dry	4.0	1	06/26/06
Chlorobenzene	ND	ug/Kg dry	4.0	1	06/26/06
Chloroethane	ND	ug/Kg dry	7.9	1	06/26/06
Chloroform	ND	ug/Kg dry	4.0	1	06/26/06
Chloromethane	ND	ug/Kg dry	7.9	1	06/26/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	4.0	1	06/26/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	4.0	1	06/26/06
Dibromochloromethane	ND	ug/Kg dry	4.0	1	06/26/06
Dibromomethane	ND	ug/Kg dry	4.0	1	06/26/06
Dichlorodifluoromethane	ND	ug/Kg dry	7.9	1	06/26/06
Diethyl Ether	ND	ug/Kg dry	4.0	1	06/26/06
Di-isopropyl ether	ND	ug/Kg dry	4.0	1	06/26/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	4.0	1	06/26/06
Ethylbenzene	ND	ug/Kg dry	4.0	1	06/26/06
Hexachlorobutadiene	ND	ug/Kg dry	4.0	1	06/26/06
Isopropylbenzene	ND	ug/Kg dry	4.0	1	06/26/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	4.0	1	06/26/06
Methylene Chloride	ND	ug/Kg dry	19.8	1	06/26/06
Naphthalene	ND	ug/Kg dry	4.0	1	06/26/06
n-Butylbenzene	ND	ug/Kg dry	4.0	1	06/26/06
n-Propylbenzene	ND	ug/Kg dry	4.0	1	06/26/06
sec-Butylbenzene	ND	ug/Kg dry	4.0	1	06/26/06
Styrene	ND	ug/Kg dry	4.0	1	06/26/06
tert-Butylbenzene	ND	ug/Kg dry	4.0	1	06/26/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	4.0	1	06/26/06
Tetrachloroethene	ND	ug/Kg dry	4.0	1	06/26/06
Tetrahydrofuran	ND	ug/Kg dry	4.0	1	06/26/06
Toluene	ND	ug/Kg dry	4.0	1	06/26/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	4.0	1	06/26/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	4.0	1	06/26/06
Trichloroethene	ND	ug/Kg dry	4.0	1	06/26/06
Trichlorofluoromethane	ND	ug/Kg dry	4.0	1	06/26/06
Vinyl Chloride	ND	ug/Kg dry	7.9	1	06/26/06
Xylene O	ND	ug/Kg dry	408	1	06/26/06



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1203  
Date Sampled: 06/22/06 11:15  
Percent Solids: 76  
Initial Volume: 8.3  
Final Volume: 10  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-21  
Sample Matrix: Soil  
Analyst: MD

### 5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	7.9	1	06/26/06
Xylenes (Total)	ND	ug/Kg dry	11.9		06/26/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	96 %		70-130
Surrogate: 4-Bromofluorobenzene	96 %		70-130
Surrogate: Dibromofluoromethane	101 %		70-130
Surrogate: Toluene-d8	94 %		70-130

# Volatile Organics Quality Control Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>3050B/6000/7000 Total Metals</b>										
<b>Batch BF62320 - 3050B</b>										
Cadmium	79.2	1.00	mg/kg wet	91.9		86	81.5-118.61			
Chromium	157	2.0	mg/kg wet	176		89	78.41-121.59			
Copper	63.5	2.0	mg/kg wet	70.0		91	82.14-118			
Lead	58.2	10.0	mg/kg wet	68.1		85	80.62-119.38			
Nickel	76.2	5.0	mg/kg wet	84.0		91	81.55-118.45			
Selenium	64.9	10.0	mg/kg wet	73.0		89	75.48-124.38			
Silver	85.0	1.00	mg/kg wet	93.0		91	61.29-138.71			
Thallium	88.3	25.0	mg/kg wet	77.8		113	75.58-124.42			
Zinc	346	5.0	mg/kg wet	402		86	79.35-120.65			

#### Batch BF62321 - 7471A

##### Blank

Mercury ND 0.033 mg/kg wet

##### LCS

Mercury 0.191 0.033 mg/kg wet 0.200 96 80-120

##### LCS Dup

Mercury 0.189 0.033 mg/kg wet 0.200 94 80-120 2 20

##### Reference

Mercury 1.63 0.333 mg/kg wet 1.77 92 68.36-132.2 +

### 5035/8260B Volatile Organic Compounds / Low Level

#### Batch BF62324 - 5035

##### Blank

1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,1-Trichloroethane	ND	5.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethene	ND	5.0	ug/Kg wet							
1,1-Dichloropropene	ND	5.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	5.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg wet							
1,2-Dibromoethane	ND	5.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,2-Dichloroethane	ND	5.0	ug/Kg wet							
1,2-Dichloropropane	ND	5.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,3-Dichloropropane	ND	5.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	250	ug/Kg wet							
1-Chlorohexane	ND	5.0	ug/Kg wet							
2,2-Dichloropropane	ND	5.0	ug/Kg wet							
2-Butanone	ND	50.0	ug/Kg wet							

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 5035/8260B Volatile Organic Compounds / Low Level

##### Batch BF62324 - 5035

2-Chlorotoluene	ND	5.0	ug/Kg wet							
2-Hexanone	ND	50.0	ug/Kg wet							
4-Chlorotoluene	ND	5.0	ug/Kg wet							
4-Isopropyltoluene	ND	5.0	ug/Kg wet							
4-Methyl-2-Pentanone	ND	50.0	ug/Kg wet							
Acetone	ND	50.0	ug/Kg wet							
Benzene	ND	5.0	ug/Kg wet							
Bromobenzene	ND	5.0	ug/Kg wet							
Bromochloromethane	ND	5.0	ug/Kg wet							
Bromodichloromethane	ND	5.0	ug/Kg wet							
Bromoform	ND	5.0	ug/Kg wet							
Bromomethane	ND	10.0	ug/Kg wet							
Carbon Disulfide	ND	5.0	ug/Kg wet							
Carbon Tetrachloride	ND	5.0	ug/Kg wet							
Chlorobenzene	ND	5.0	ug/Kg wet							
Chloroethane	ND	10.0	ug/Kg wet							
Chloroform	ND	5.0	ug/Kg wet							
Chloromethane	ND	10.0	ug/Kg wet							
cis-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
cis-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Dibromochloromethane	ND	5.0	ug/Kg wet							
Dibromomethane	ND	5.0	ug/Kg wet							
Dichlorodifluoromethane	ND	10.0	ug/Kg wet							
Diethyl Ether	ND	5.0	ug/Kg wet							
Di-isopropyl ether	ND	5.0	ug/Kg wet							
Ethyl tertiary-butyl ether	ND	5.0	ug/Kg wet							
Ethylbenzene	ND	5.0	ug/Kg wet							
Hexachlorobutadiene	ND	5.0	ug/Kg wet							
Isopropylbenzene	ND	5.0	ug/Kg wet							
Methyl tert-Butyl Ether	ND	5.0	ug/Kg wet							
Methylene Chloride	ND	25.0	ug/Kg wet							
Naphthalene	ND	5.0	ug/Kg wet							
n-Butylbenzene	ND	5.0	ug/Kg wet							
n-Propylbenzene	ND	5.0	ug/Kg wet							
sec-Butylbenzene	ND	5.0	ug/Kg wet							
Styrene	ND	5.0	ug/Kg wet							
tert-Butylbenzene	ND	5.0	ug/Kg wet							
Tertiary-amyl methyl ether	ND	5.0	ug/Kg wet							
Tetrachloroethene	ND	5.0	ug/Kg wet							
Tetrahydrofuran	ND	5.0	ug/Kg wet							
Toluene	ND	5.0	ug/Kg wet							
trans-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
trans-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Trichloroethene	ND	5.0	ug/Kg wet							
Trichlorofluoromethane	ND	5.0	ug/Kg wet							
Vinyl Chloride	ND	10.0	ug/Kg wet							
Xylene O	ND	5.0	ug/Kg wet							

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 5035/8260B Volatile Organic Compounds / Low Level

##### Batch BF62324 - 5035

Xylene P,M	ND	10.0	ug/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	23.0		ug/L	25.0		92	70-130			
Surrogate: 4-Bromofluorobenzene	23.8		ug/L	25.0		95	70-130			
Surrogate: Dibromofluoromethane	24.8		ug/L	25.0		99	70-130			
Surrogate: Toluene-d8	23.5		ug/L	25.0		94	70-130			

##### LCS

1,1,1,2-Tetrachloroethane	24.3		ug/L	25.0		97	70-130			
1,1,1-Trichloroethane	25.6		ug/L	25.0		102	70-130			
1,1,2,2-Tetrachloroethane	24.7		ug/L	25.0		99	70-130			
1,1,2-Trichloroethane	24.4		ug/L	25.0		98	70-130			
1,1-Dichloroethane	24.7		ug/L	25.0		99	70-130			
1,1-Dichloroethene	27.3		ug/L	25.0		109	70-130			
1,1-Dichloropropene	24.7		ug/L	25.0		99	70-130			
1,2,3-Trichlorobenzene	26.7		ug/L	25.0		107	70-130			
1,2,3-Trichloropropane	24.6		ug/L	25.0		98	70-130			
1,2,4-Trichlorobenzene	25.2		ug/L	25.0		101	70-130			
1,2,4-Trimethylbenzene	25.6		ug/L	25.0		102	70-130			
1,2-Dibromo-3-Chloropropane	25.5		ug/L	25.0		102	70-130			
1,2-Dibromoethane	24.8		ug/L	25.0		99	70-130			
1,2-Dichlorobenzene	24.8		ug/L	25.0		99	70-130			
1,2-Dichloroethane	24.4		ug/L	25.0		98	70-130			
1,2-Dichloropropane	23.8		ug/L	25.0		95	70-130			
1,3,5-Trimethylbenzene	25.3		ug/L	25.0		101	70-130			
1,3-Dichlorobenzene	24.6		ug/L	25.0		98	70-130			
1,3-Dichloropropane	24.6		ug/L	25.0		98	70-130			
1,4-Dichlorobenzene	24.0		ug/L	25.0		96	70-130			
1,4-Dioxane - Screen	511		ug/L	500		102	70-130			
1-Chlorohexane	24.8		ug/L	25.0		99	70-130			
2,2-Dichloropropane	26.1		ug/L	25.0		104	70-130			
2-Butanone	141		ug/L	125		113	70-130			
2-Chlorotoluene	29.0		ug/L	25.0		116	70-130			
2-Hexanone	132		ug/L	125		106	70-130			
4-Chlorotoluene	24.8		ug/L	25.0		99	70-130			
4-Isopropyltoluene	25.2		ug/L	25.0		101	70-130			
4-Methyl-2-Pentanone	118		ug/L	125		94	70-130			
Acetone	146		ug/L	125		117	70-130			
Benzene	25.1		ug/L	25.0		100	70-130			
Bromobenzene	26.0		ug/L	25.0		104	70-130			
Bromochloromethane	26.2		ug/L	25.0		105	70-130			
Bromodichloromethane	26.8		ug/L	25.0		107	70-130			
Bromoform	25.4		ug/L	25.0		102	70-130			
Bromomethane	20.0		ug/L	25.0		80	70-130			
Carbon Disulfide	25.3		ug/L	25.0		101	70-130			
Carbon Tetrachloride	25.3		ug/L	25.0		101	70-130			
Chlorobenzene	25.1		ug/L	25.0		100	70-130			
Chloroethane	16.6		ug/L	25.0		66	70-130			
Chloroform	25.5		ug/L	25.0		102	70-130			+

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 5035/8260B Volatile Organic Compounds / Low Level

##### Batch BF62324 - 5035

Chloromethane	24.9		ug/L	25.0		100	70-130			
cis-1,2-Dichloroethene	26.9		ug/L	25.0		108	70-130			
cis-1,3-Dichloropropene	24.4		ug/L	25.0		98	70-130			
Dibromochloromethane	25.4		ug/L	25.0		102	70-130			
Dibromomethane	25.9		ug/L	25.0		104	70-130			
Dichlorodifluoromethane	25.8		ug/L	25.0		103	70-130			
Diethyl Ether	25.3		ug/L	25.0		101	70-130			
Di-isopropyl ether	24.2		ug/L	25.0		97	70-130			
Ethyl tertiary-butyl ether	24.0		ug/L	25.0		96	70-130			
Ethylbenzene	26.0		ug/L	25.0		104	70-130			
Hexachlorobutadiene	26.3		ug/L	25.0		105	70-130			
Isopropylbenzene	23.3		ug/L	25.0		93	70-130			
Methyl tert-Butyl Ether	26.2		ug/L	25.0		105	70-130			
Methylene Chloride	26.3		ug/L	25.0		105	70-130			
Naphthalene	25.3		ug/L	25.0		101	70-130			
n-Butylbenzene	25.5		ug/L	25.0		102	70-130			
n-Propylbenzene	26.1		ug/L	25.0		104	70-130			
sec-Butylbenzene	25.1		ug/L	25.0		100	70-130			
Styrene	25.6		ug/L	25.0		102	70-130			
tert-Butylbenzene	25.1		ug/L	25.0		100	70-130			
Tertiary-amyl methyl ether	24.9		ug/L	25.0		100	70-130			
Tetrachloroethene	26.0		ug/L	25.0		104	70-130			
Tetrahydrofuran	24.6		ug/L	25.0		98	70-130			
Toluene	25.4		ug/L	25.0		102	70-130			
trans-1,2-Dichloroethene	26.3		ug/L	25.0		105	70-130			
trans-1,3-Dichloropropene	22.6		ug/L	25.0		90	70-130			
Trichloroethene	25.2		ug/L	25.0		101	70-130			
Trichlorofluoromethane	25.0		ug/L	25.0		100	70-130			
Vinyl Chloride	26.5		ug/L	25.0		106	70-130			
Xylene O	25.3		ug/L	25.0		101	70-130			
Xylene P,M	50.9		ug/L	50.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	23.6		ug/L	25.0		94	70-130			
Surrogate: 4-Bromofluorobenzene	23.6		ug/L	25.0		94	70-130			
Surrogate: Dibromofluoromethane	23.7		ug/L	25.0		95	70-130			
Surrogate: Toluene-d8	23.6		ug/L	25.0		94	70-130			

##### LCS Dup

1,1,1,2-Tetrachloroethane	24.0		ug/L	25.0		96	70-130	1	20	
1,1,1-Trichloroethane	24.8		ug/L	25.0		99	70-130	3	20	
1,1,2,2-Tetrachloroethane	23.5		ug/L	25.0		94	70-130	5	20	
1,1,2-Trichloroethane	23.5		ug/L	25.0		94	70-130	4	20	
1,1-Dichloroethane	24.0		ug/L	25.0		96	70-130	3	20	
1,1-Dichloroethene	26.4		ug/L	25.0		106	70-130	3	20	
1,1-Dichloropropene	23.9		ug/L	25.0		96	70-130	3	20	
1,2,3-Trichlorobenzene	26.5		ug/L	25.0		106	70-130	0.9	20	
1,2,3-Trichloropropane	23.5		ug/L	25.0		94	70-130	4	20	
1,2,4-Trichlorobenzene	24.6		ug/L	25.0	414	98	70-130	3	20	
1,2,4-Trimethylbenzene	24.9		ug/L	25.0		100	70-130	2	20	

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 5035/8260B Volatile Organic Compounds / Low Level

#### Batch BF62324 - 5035

1,2-Dibromo-3-Chloropropane	24.0		ug/L	25.0		96	70-130	6	20	
1,2-Dibromoethane	23.8		ug/L	25.0		95	70-130	4	20	
1,2-Dichlorobenzene	24.0		ug/L	25.0		96	70-130	3	20	
1,2-Dichloroethane	23.5		ug/L	25.0		94	70-130	4	20	
1,2-Dichloropropane	23.0		ug/L	25.0		92	70-130	3	20	
1,3,5-Trimethylbenzene	24.6		ug/L	25.0		98	70-130	3	20	
1,3-Dichlorobenzene	24.1		ug/L	25.0		96	70-130	2	20	
1,3-Dichloropropane	23.7		ug/L	25.0		95	70-130	3	20	
1,4-Dichlorobenzene	23.5		ug/L	25.0		94	70-130	2	20	
1,4-Dioxane - Screen	481		ug/L	500		96	70-130	6	20	
1-Chlorohexane	23.9		ug/L	25.0		96	70-130	3	20	
2,2-Dichloropropane	24.8		ug/L	25.0		99	70-130	5	20	
2-Butanone	134		ug/L	125		107	70-130	5	20	
2-Chlorotoluene	27.6		ug/L	25.0		110	70-130	5	20	
2-Hexanone	125		ug/L	125		100	70-130	6	20	
4-Chlorotoluene	23.8		ug/L	25.0		95	70-130	4	20	
4-Isopropyltoluene	24.4		ug/L	25.0		98	70-130	3	20	
4-Methyl-2-Pentanone	111		ug/L	125		89	70-130	5	20	
Acetone	137		ug/L	125		110	70-130	6	20	
Benzene	24.2		ug/L	25.0		97	70-130	3	20	
Bromobenzene	25.4		ug/L	25.0		102	70-130	2	20	
Bromochloromethane	25.4		ug/L	25.0		102	70-130	3	20	
Bromodichloromethane	25.8		ug/L	25.0		103	70-130	4	20	
Bromoform	24.5		ug/L	25.0		98	70-130	4	20	
Bromomethane	19.7		ug/L	25.0		79	70-130	1	20	
Carbon Disulfide	24.6		ug/L	25.0		98	70-130	3	20	
Carbon Tetrachloride	24.6		ug/L	25.0		98	70-130	3	20	
Chlorobenzene	24.1		ug/L	25.0		96	70-130	4	20	
Chloroethane	16.3		ug/L	25.0		65	70-130	2	20	
Chloroform	24.8		ug/L	25.0		99	70-130	3	20	+
Chloromethane	23.9		ug/L	25.0		96	70-130	4	20	
cis-1,2-Dichloroethene	26.1		ug/L	25.0		104	70-130	4	20	
cis-1,3-Dichloropropene	23.5		ug/L	25.0		94	70-130	4	20	
Dibromochloromethane	24.6		ug/L	25.0		98	70-130	4	20	
Dibromomethane	24.9		ug/L	25.0		100	70-130	4	20	
Dichlorodifluoromethane	24.8		ug/L	25.0		99	70-130	4	20	
Diethyl Ether	24.2		ug/L	25.0		97	70-130	4	20	
Di-isopropyl ether	23.2		ug/L	25.0		93	70-130	4	20	
Ethyl tertiary-butyl ether	23.2		ug/L	25.0		93	70-130	3	20	
Ethylbenzene	25.0		ug/L	25.0		100	70-130	4	20	
Hexachlorobutadiene	25.6		ug/L	25.0		102	70-130	3	20	
Isopropylbenzene	22.6		ug/L	25.0		90	70-130	3	20	
Methyl tert-Butyl Ether	23.0		ug/L	25.0		92	70-130	13	20	
Methylene Chloride	25.1		ug/L	25.0		100	70-130	5	20	
Naphthalene	25.1		ug/L	25.0		100	70-130	1	20	
n-Butylbenzene	24.8		ug/L	25.0		99	70-130	3	20	
n-Propylbenzene	25.5		ug/L	25.0		102	70-130	2	20	

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 5035/8260B Volatile Organic Compounds / Low Level

##### Batch BF62324 - 5035

sec-Butylbenzene	24.5		ug/L	25.0		98	70-130	2	20	
Styrene	24.8		ug/L	25.0		99	70-130	3	20	
tert-Butylbenzene	23.9		ug/L	25.0		96	70-130	4	20	
Tertiary-amyl methyl ether	24.1		ug/L	25.0		96	70-130	4	20	
Tetrachloroethene	27.3		ug/L	25.0		109	70-130	5	20	
Tetrahydrofuran	22.4		ug/L	25.0		90	70-130	9	20	
Toluene	24.4		ug/L	25.0		98	70-130	4	20	
trans-1,2-Dichloroethene	24.8		ug/L	25.0		99	70-130	6	20	
trans-1,3-Dichloropropene	21.8		ug/L	25.0		87	70-130	3	20	
Trichloroethene	24.3		ug/L	25.0		97	70-130	4	20	
Trichlorofluoromethane	24.2		ug/L	25.0		97	70-130	3	20	
Vinyl Chloride	25.2		ug/L	25.0		101	70-130	5	20	
Xylene O	24.5		ug/L	25.0		98	70-130	3	20	
Xylene P,M	49.6		ug/L	50.0		99	70-130	3	20	
Surrogate: 1,2-Dichloroethane-d4	23.2		ug/L	25.0		93	70-130			
Surrogate: 4-Bromofluorobenzene	23.5		ug/L	25.0		94	70-130			
Surrogate: Dibromofluoromethane	23.6		ug/L	25.0		94	70-130			
Surrogate: Toluene-d8	23.5		ug/L	25.0		94	70-130			

##### Batch BF62614 - 5035

##### Blank

1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,1-Trichloroethane	ND	5.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethene	ND	5.0	ug/Kg wet							
1,1-Dichloropropene	ND	5.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	5.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg wet							
1,2-Dibromoethane	ND	5.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,2-Dichloroethane	ND	5.0	ug/Kg wet							
1,2-Dichloropropane	ND	5.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,3-Dichloropropane	ND	5.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	250	ug/Kg wet							
1-Chlorohexane	ND	5.0	ug/Kg wet							
2,2-Dichloropropane	ND	5.0	ug/Kg wet							
2-Butanone	ND	50.0	ug/Kg wet							
2-Chlorotoluene	ND	5.0	ug/Kg wet							
2-Hexanone	ND	50.0	ug/Kg wet							

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 5035/8260B Volatile Organic Compounds / Low Level

##### Batch BF62614 - 5035

4-Chlorotoluene	ND	5.0	ug/Kg wet							
4-Isopropyltoluene	ND	5.0	ug/Kg wet							
4-Methyl-2-Pentanone	ND	50.0	ug/Kg wet							
Acetone	ND	50.0	ug/Kg wet							
Benzene	ND	5.0	ug/Kg wet							
Bromobenzene	ND	5.0	ug/Kg wet							
Bromochloromethane	ND	5.0	ug/Kg wet							
Bromodichloromethane	ND	5.0	ug/Kg wet							
Bromoform	ND	5.0	ug/Kg wet							
Bromomethane	ND	10.0	ug/Kg wet							
Carbon Disulfide	ND	5.0	ug/Kg wet							
Carbon Tetrachloride	ND	5.0	ug/Kg wet							
Chlorobenzene	ND	5.0	ug/Kg wet							
Chloroethane	ND	10.0	ug/Kg wet							
Chloroform	ND	5.0	ug/Kg wet							
Chloromethane	ND	10.0	ug/Kg wet							
cis-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
cis-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Dibromochloromethane	ND	5.0	ug/Kg wet							
Dibromomethane	ND	5.0	ug/Kg wet							
Dichlorodifluoromethane	ND	10.0	ug/Kg wet							
Diethyl Ether	ND	5.0	ug/Kg wet							
Di-isopropyl ether	ND	5.0	ug/Kg wet							
Ethyl tertiary-butyl ether	ND	5.0	ug/Kg wet							
Ethylbenzene	ND	5.0	ug/Kg wet							
Hexachlorobutadiene	ND	5.0	ug/Kg wet							
Isopropylbenzene	ND	5.0	ug/Kg wet							
Methyl tert-Butyl Ether	ND	5.0	ug/Kg wet							
Methylene Chloride	ND	25.0	ug/Kg wet							
Naphthalene	ND	5.0	ug/Kg wet							
n-Butylbenzene	ND	5.0	ug/Kg wet							
n-Propylbenzene	ND	5.0	ug/Kg wet							
sec-Butylbenzene	ND	5.0	ug/Kg wet							
Styrene	ND	5.0	ug/Kg wet							
tert-Butylbenzene	ND	5.0	ug/Kg wet							
Tertiary-amyyl methyl ether	ND	5.0	ug/Kg wet							
Tetrachloroethene	ND	5.0	ug/Kg wet							
Tetrahydrofuran	ND	5.0	ug/Kg wet							
Toluene	ND	5.0	ug/Kg wet							
trans-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
trans-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Trichloroethene	ND	5.0	ug/Kg wet							
Trichlorofluoromethane	ND	5.0	ug/Kg wet							
Vinyl Chloride	ND	10.0	ug/Kg wet							
Xylene O	ND	5.0	ug/Kg wet							
Xylene P,M	ND	10.0	ug/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	23.5		ug/L	25.0		94	70-130			

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 5035/8260B Volatile Organic Compounds / Low Level

Batch BF62614 - 5035

Surrogate: 4-Bromofluorobenzene	23.9		ug/L	25.0		96	70-130			
Surrogate: Dibromofluoromethane	24.7		ug/L	25.0		99	70-130			
Surrogate: Toluene-d8	23.4		ug/L	25.0		94	70-130			

#### LCS

1,1,1,2-Tetrachloroethane	23.8		ug/L	25.0		95	70-130			
1,1,1-Trichloroethane	25.2		ug/L	25.0		101	70-130			
1,1,2,2-Tetrachloroethane	23.7		ug/L	25.0		95	70-130			
1,1,2-Trichloroethane	24.3		ug/L	25.0		97	70-130			
1,1-Dichloroethane	24.2		ug/L	25.0		97	70-130			
1,1-Dichloroethene	25.7		ug/L	25.0		103	70-130			
1,1-Dichloropropene	24.3		ug/L	25.0		97	70-130			
1,2,3-Trichlorobenzene	26.4		ug/L	25.0		106	70-130			
1,2,3-Trichloropropane	21.9		ug/L	25.0		88	70-130			
1,2,4-Trichlorobenzene	24.7		ug/L	25.0		99	70-130			
1,2,4-Trimethylbenzene	24.5		ug/L	25.0		98	70-130			
1,2-Dibromo-3-Chloropropane	24.6		ug/L	25.0		98	70-130			
1,2-Dibromoethane	24.0		ug/L	25.0		96	70-130			
1,2-Dichlorobenzene	24.0		ug/L	25.0		96	70-130			
1,2-Dichloroethane	24.8		ug/L	25.0		99	70-130			
1,2-Dichloropropane	23.0		ug/L	25.0		92	70-130			
1,3,5-Trimethylbenzene	24.3		ug/L	25.0		97	70-130			
1,3-Dichlorobenzene	23.8		ug/L	25.0		95	70-130			
1,3-Dichloropropane	23.6		ug/L	25.0		94	70-130			
1,4-Dichlorobenzene	23.4		ug/L	25.0		94	70-130			
1,4-Dioxane - Screen	481		ug/L	500		96	70-130			
1-Chlorohexane	23.9		ug/L	25.0		96	70-130			
2,2-Dichloropropane	25.6		ug/L	25.0		102	70-130			
2-Butanone	117		ug/L	125		94	70-130			
2-Chlorotoluene	24.9		ug/L	25.0		100	70-130			
2-Hexanone	112		ug/L	125		90	70-130			
4-Chlorotoluene	23.9		ug/L	25.0		96	70-130			
4-Isopropyltoluene	24.2		ug/L	25.0		97	70-130			
4-Methyl-2-Pentanone	111		ug/L	125		89	70-130			
Acetone	108		ug/L	125		86	70-130			
Benzene	24.2		ug/L	25.0		97	70-130			
Bromobenzene	25.3		ug/L	25.0		101	70-130			
Bromochloromethane	26.1		ug/L	25.0		104	70-130			
Bromodichloromethane	26.6		ug/L	25.0		106	70-130			
Bromoform	25.3		ug/L	25.0		101	70-130			
Bromomethane	19.4		ug/L	25.0		78	70-130			
Carbon Disulfide	24.5		ug/L	25.0		98	70-130			
Carbon Tetrachloride	25.2		ug/L	25.0		101	70-130			
Chlorobenzene	24.1		ug/L	25.0		96	70-130			
Chloroethane	16.8		ug/L	25.0		67	70-130			
Chloroform	25.3		ug/L	25.0		101	70-130			
Chloromethane	23.7		ug/L	25.0		95	70-130			

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 5035/8260B Volatile Organic Compounds / Low Level

##### Batch BF62614 - 5035

cis-1,2-Dichloroethene	26.3		ug/L	25.0		105	70-130			
cis-1,3-Dichloropropene	24.1		ug/L	25.0		96	70-130			
Dibromochloromethane	24.8		ug/L	25.0		99	70-130			
Dibromomethane	25.7		ug/L	25.0		103	70-130			
Dichlorodifluoromethane	24.8		ug/L	25.0		99	70-130			
Diethyl Ether	24.3		ug/L	25.0		97	70-130			
Di-Isopropyl ether	23.5		ug/L	25.0		94	70-130			
Ethyl tertiary-butyl ether	23.5		ug/L	25.0		94	70-130			
Ethylbenzene	24.8		ug/L	25.0		99	70-130			
Hexachlorobutadiene	25.9		ug/L	25.0		104	70-130			
Isopropylbenzene	22.3		ug/L	25.0		89	70-130			
Methyl tert-Butyl Ether	23.7		ug/L	25.0		95	70-130			
Methylene Chloride	24.9		ug/L	25.0		100	70-130			
Naphthalene	24.9		ug/L	25.0		100	70-130			
n-Butylbenzene	24.6		ug/L	25.0		98	70-130			
n-Propylbenzene	23.8		ug/L	25.0		95	70-130			
sec-Butylbenzene	24.1		ug/L	25.0		96	70-130			
Styrene	24.6		ug/L	25.0		98	70-130			
tert-Butylbenzene	24.2		ug/L	25.0		97	70-130			
Tertiary-amyl methyl ether	24.6		ug/L	25.0		98	70-130			
Tetrachloroethene	24.9		ug/L	25.0		100	70-130			
Tetrahydrofuran	22.6		ug/L	25.0		90	70-130			
Toluene	24.9		ug/L	25.0		100	70-130			
trans-1,2-Dichloroethene	25.1		ug/L	25.0		100	70-130			
trans-1,3-Dichloropropene	22.6		ug/L	25.0		90	70-130			
Trichloroethene	24.6		ug/L	25.0		98	70-130			
Trichlorofluoromethane	24.9		ug/L	25.0		100	70-130			
Vinyl Chloride	24.8		ug/L	25.0		99	70-130			
Xylene O	24.2		ug/L	25.0		97	70-130			
Xylene P,M	49.0		ug/L	50.0		98	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.6		ug/L	25.0		98	70-130			
Surrogate: 4-Bromofluorobenzene	23.5		ug/L	25.0		94	70-130			
Surrogate: Dibromofluoromethane	24.2		ug/L	25.0		97	70-130			
Surrogate: Toluene-d8	23.0		ug/L	25.0		92	70-130			

##### LCS Dup

1,1,1,2-Tetrachloroethane	24.1		ug/L	25.0		96	70-130	1	20	
1,1,1-Trichloroethane	25.1		ug/L	25.0		100	70-130	1	20	
1,1,2,2-Tetrachloroethane	24.1		ug/L	25.0		96	70-130	1	20	
1,1,2-Trichloroethane	24.4		ug/L	25.0		98	70-130	1	20	
1,1-Dichloroethane	24.1		ug/L	25.0		96	70-130	1	20	
1,1-Dichloroethene	26.6		ug/L	25.0		106	70-130	3	20	
1,1-Dichloropropene	24.2		ug/L	25.0		97	70-130	0	20	
1,2,3-Trichlorobenzene	26.9		ug/L	25.0		108	70-130	2	20	
1,2,3-Trichloropropane	24.0		ug/L	25.0		96	70-130	9	20	
1,2,4-Trichlorobenzene	24.7		ug/L	25.0		99	70-130	0	20	
1,2,4-Trimethylbenzene	24.4		ug/L	25.0	419	98	70-130	0	20	
1,2-Dibromo-3-Chloropropane	24.7		ug/L	25.0		99	70-130	1	20	

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<http://www.ESSLaboratory.com>

Dependability

Quality

Service

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 5035/8260B Volatile Organic Compounds / Low Level

##### Batch BF62614 - 5035

1,2-Dibromoethane	24.3		ug/L	25.0		97	70-130	1	20	
1,2-Dichlorobenzene	24.2		ug/L	25.0		97	70-130	1	20	
1,2-Dichloroethane	24.8		ug/L	25.0		99	70-130	0	20	
1,2-Dichloropropane	23.2		ug/L	25.0		93	70-130	1	20	
1,3,5-Trimethylbenzene	24.2		ug/L	25.0		97	70-130	0	20	
1,3-Dichlorobenzene	23.6		ug/L	25.0		94	70-130	1	20	
1,3-Dichloropropane	24.0		ug/L	25.0		96	70-130	2	20	
1,4-Dichlorobenzene	23.5		ug/L	25.0		94	70-130	0	20	
1,4-Dioxane - Screen	498		ug/L	500		100	70-130	4	20	
1-Chlorohexane	23.8		ug/L	25.0		95	70-130	1	20	
2,2-Dichloropropane	25.4		ug/L	25.0		102	70-130	0	20	
2-Butanone	119		ug/L	125		95	70-130	1	20	
2-Chlorotoluene	26.0		ug/L	25.0		104	70-130	4	20	
2-Hexanone	117		ug/L	125		94	70-130	4	20	
4-Chlorotoluene	23.9		ug/L	25.0		96	70-130	0	20	
4-Isopropyltoluene	24.1		ug/L	25.0		96	70-130	1	20	
4-Methyl-2-Pentanone	115		ug/L	125		92	70-130	3	20	
Acetone	109		ug/L	125		87	70-130	1	20	
Benzene	24.3		ug/L	25.0		97	70-130	0	20	
Bromobenzene	25.5		ug/L	25.0		102	70-130	1	20	
Bromochloromethane	26.2		ug/L	25.0		105	70-130	1	20	
Bromodichloromethane	26.7		ug/L	25.0		107	70-130	0.9	20	
Bromoform	25.8		ug/L	25.0		103	70-130	2	20	
Bromomethane	19.0		ug/L	25.0		76	70-130	3	20	
Carbon Disulfide	24.1		ug/L	25.0		96	70-130	2	20	
Carbon Tetrachloride	25.1		ug/L	25.0		100	70-130	1	20	
Chlorobenzene	24.3		ug/L	25.0		97	70-130	1	20	
Chloroethane	15.4		ug/L	25.0		62	70-130	8	20	+
Chloroform	25.4		ug/L	25.0		102	70-130	1	20	
Chloromethane	23.6		ug/L	25.0		94	70-130	1	20	
cis-1,2-Dichloroethene	26.5		ug/L	25.0		106	70-130	0.9	20	
cis-1,3-Dichloropropene	24.2		ug/L	25.0		97	70-130	1	20	
Dibromochloromethane	25.3		ug/L	25.0		101	70-130	2	20	
Dibromomethane	25.9		ug/L	25.0		104	70-130	1	20	
Dichlorodifluoromethane	24.5		ug/L	25.0		98	70-130	1	20	
Diethyl Ether	24.4		ug/L	25.0		98	70-130	1	20	
Di-isopropyl ether	23.6		ug/L	25.0		94	70-130	0	20	
Ethyl tertiary-butyl ether	23.7		ug/L	25.0		95	70-130	1	20	
Ethylbenzene	25.1		ug/L	25.0		100	70-130	1	20	
Hexachlorobutadiene	25.8		ug/L	25.0		103	70-130	1	20	
Isopropylbenzene	22.1		ug/L	25.0		88	70-130	1	20	
Methyl tert-Butyl Ether	26.4		ug/L	25.0		106	70-130	11	20	
Methylene Chloride	24.8		ug/L	25.0		99	70-130	1	20	
Naphthalene	25.6		ug/L	25.0		102	70-130	2	20	
n-Butylbenzene	24.3		ug/L	25.0		97	70-130	1	20	
n-Propylbenzene	23.2		ug/L	25.0	420	93	70-130	2	20	
sec-Butylbenzene	24.0		ug/L	25.0		96	70-130	0	20	

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 5035/8260B Volatile Organic Compounds / Low Level

##### Batch BF62614 - 5035

Styrene	24.8		ug/L	25.0		99	70-130	1	20	
tert-Butylbenzene	24.3		ug/L	25.0		97	70-130	0	20	
Tertiary-amyl methyl ether	24.8		ug/L	25.0		99	70-130	1	20	
Tetrachloroethene	24.9		ug/L	25.0		100	70-130	0	20	
Tetrahydrofuran	23.3		ug/L	25.0		93	70-130	3	20	
Toluene	24.7		ug/L	25.0		99	70-130	1	20	
trans-1,2-Dichloroethene	25.7		ug/L	25.0		103	70-130	3	20	
trans-1,3-Dichloropropene	22.8		ug/L	25.0		91	70-130	1	20	
Trichloroethene	24.8		ug/L	25.0		99	70-130	1	20	
Trichlorofluoromethane	24.8		ug/L	25.0		99	70-130	1	20	
Vinyl Chloride	24.7		ug/L	25.0		99	70-130	0	20	
Xylene O	24.4		ug/L	25.0		98	70-130	1	20	
Xylene P,M	49.1		ug/L	50.0		98	70-130	0	20	
Surrogate: 1,2-Dichloroethane-d4	24.5		ug/L	25.0		98	70-130			
Surrogate: 4-Bromofluorobenzene	23.6		ug/L	25.0		94	70-130			
Surrogate: Dibromofluoromethane	24.1		ug/L	25.0		96	70-130			
Surrogate: Toluene-d8	23.1		ug/L	25.0		92	70-130			

##### Batch BF62718 - 5035

##### Blank

1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,1-Trichloroethane	ND	5.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethene	ND	5.0	ug/Kg wet							
1,1-Dichloropropene	ND	5.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	5.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg wet							
1,2-Dibromoethane	ND	5.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,2-Dichloroethane	ND	5.0	ug/Kg wet							
1,2-Dichloropropane	ND	5.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,3-Dichloropropane	ND	5.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	250	ug/Kg wet							
1-Chlorohexane	ND	5.0	ug/Kg wet							
2,2-Dichloropropane	ND	5.0	ug/Kg wet							
2-Butanone	ND	50.0	ug/Kg wet							
2-Chlorotoluene	ND	5.0	ug/Kg wet							
2-Hexanone	ND	50.0	ug/Kg wet							
4-Chlorotoluene	ND	5.0	ug/Kg wet							

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 5035/8260B Volatile Organic Compounds / Low Level

#### Batch BF62718 - 5035

4-Isopropyltoluene	ND	5.0	ug/Kg wet
4-Methyl-2-Pentanone	ND	50.0	ug/Kg wet
Acetone	ND	50.0	ug/Kg wet
Benzene	ND	5.0	ug/Kg wet
Bromobenzene	ND	5.0	ug/Kg wet
Bromochloromethane	ND	5.0	ug/Kg wet
Bromodichloromethane	ND	5.0	ug/Kg wet
Bromoform	ND	5.0	ug/Kg wet
Bromomethane	ND	10.0	ug/Kg wet
Carbon Disulfide	ND	5.0	ug/Kg wet
Carbon Tetrachloride	ND	5.0	ug/Kg wet
Chlorobenzene	ND	5.0	ug/Kg wet
Chloroethane	ND	10.0	ug/Kg wet
Chloroform	ND	5.0	ug/Kg wet
Chloromethane	ND	10.0	ug/Kg wet
cis-1,2-Dichloroethene	ND	5.0	ug/Kg wet
cis-1,3-Dichloropropene	ND	5.0	ug/Kg wet
Dibromochloromethane	ND	5.0	ug/Kg wet
Dibromomethane	ND	5.0	ug/Kg wet
Dichlorodifluoromethane	ND	10.0	ug/Kg wet
Diethyl Ether	ND	5.0	ug/Kg wet
Di-Isopropyl ether	ND	5.0	ug/Kg wet
Ethyl tertiary-butyl ether	ND	5.0	ug/Kg wet
Ethylbenzene	ND	5.0	ug/Kg wet
Hexachlorobutadiene	ND	5.0	ug/Kg wet
Isopropylbenzene	ND	5.0	ug/Kg wet
Methyl tert-Butyl Ether	ND	5.0	ug/Kg wet
Methylene Chloride	ND	25.0	ug/Kg wet
Naphthalene	ND	5.0	ug/Kg wet
n-Butylbenzene	ND	5.0	ug/Kg wet
n-Propylbenzene	ND	5.0	ug/Kg wet
sec-Butylbenzene	ND	5.0	ug/Kg wet
Styrene	ND	5.0	ug/Kg wet
tert-Butylbenzene	ND	5.0	ug/Kg wet
Tertiary-amyl methyl ether	ND	5.0	ug/Kg wet
Tetrachloroethene	ND	5.0	ug/Kg wet
Tetrahydrofuran	ND	5.0	ug/Kg wet
Toluene	ND	5.0	ug/Kg wet
trans-1,2-Dichloroethene	ND	5.0	ug/Kg wet
trans-1,3-Dichloropropene	ND	5.0	ug/Kg wet
Trichloroethene	ND	5.0	ug/Kg wet
Trichlorofluoromethane	ND	5.0	ug/Kg wet
Vinyl Chloride	ND	10.0	ug/Kg wet
Xylene O	ND	5.0	ug/Kg wet
Xylene P,M	ND	10.0	ug/Kg wet

Surrogate: 1,2-Dichloroethane-d4	23.6	ug/L	25.0	94	70-130
Surrogate: 4-Bromofluorobenzene	24.0	ug/L	25.0	96	70-130

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 5035/8260B Volatile Organic Compounds / Low Level

Batch BF62718 - 5035

Surrogate: Dibromofluoromethane	24.9		ug/L	25.0		100	70-130			
Surrogate: Toluene-d8	23.6		ug/L	25.0		94	70-130			

#### LCS

1,1,1,2-Tetrachloroethane	24.4		ug/L	25.0		98	70-130			
1,1,1-Trichloroethane	24.8		ug/L	25.0		99	70-130			
1,1,2,2-Tetrachloroethane	22.7		ug/L	25.0		91	70-130			
1,1,2-Trichloroethane	23.8		ug/L	25.0		95	70-130			
1,1-Dichloroethane	24.0		ug/L	25.0		96	70-130			
1,1-Dichloroethene	26.0		ug/L	25.0		104	70-130			
1,1-Dichloropropene	24.0		ug/L	25.0		96	70-130			
1,2,3-Trichlorobenzene	25.7		ug/L	25.0		103	70-130			
1,2,3-Trichloropropane	20.8		ug/L	25.0		83	70-130			
1,2,4-Trichlorobenzene	24.2		ug/L	25.0		97	70-130			
1,2,4-Trimethylbenzene	24.2		ug/L	25.0		97	70-130			
1,2-Dibromo-3-Chloropropane	22.6		ug/L	25.0		90	70-130			
1,2-Dibromoethane	23.6		ug/L	25.0		94	70-130			
1,2-Dichlorobenzene	23.7		ug/L	25.0		95	70-130			
1,2-Dichloroethane	24.5		ug/L	25.0		98	70-130			
1,2-Dichloropropane	22.9		ug/L	25.0		92	70-130			
1,3,5-Trimethylbenzene	24.0		ug/L	25.0		96	70-130			
1,3-Dichlorobenzene	23.5		ug/L	25.0		94	70-130			
1,3-Dichloropropane	23.6		ug/L	25.0		94	70-130			
1,4-Dichlorobenzene	23.2		ug/L	25.0		93	70-130			
1,4-Dioxane - Screen	417		ug/L	500		83	70-130			
1-Chlorohexane	24.3		ug/L	25.0		97	70-130			
2,2-Dichloropropane	25.4		ug/L	25.0		102	70-130			
2-Butanone	105		ug/L	125		84	70-130			
2-Chlorotoluene	24.4		ug/L	25.0		98	70-130			
2-Hexanone	107		ug/L	125		86	70-130			
4-Chlorotoluene	23.4		ug/L	25.0		94	70-130			
4-Isopropyltoluene	23.9		ug/L	25.0		96	70-130			
4-Methyl-2-Pentanone	103		ug/L	125		82	70-130			
Acetone	99.6		ug/L	125		80	70-130			
Benzene	24.1		ug/L	25.0		96	70-130			
Bromobenzene	25.1		ug/L	25.0		100	70-130			
Bromochloromethane	25.6		ug/L	25.0		102	70-130			
Bromodichloromethane	26.5		ug/L	25.0		106	70-130			
Bromoform	24.7		ug/L	25.0		99	70-130			
Bromomethane	18.9		ug/L	25.0		76	70-130			
Carbon Disulfide	24.1		ug/L	25.0		96	70-130			
Carbon Tetrachloride	24.8		ug/L	25.0		99	70-130			
Chlorobenzene	24.4		ug/L	25.0		98	70-130			
Chloroethane	18.4		ug/L	25.0		74	70-130			
Chloroform	25.1		ug/L	25.0		100	70-130			
Chloromethane	23.2		ug/L	25.0		93	70-130			
cis-1,2-Dichloroethene	26.1		ug/L	25.0		104	70-130			

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 5035/8260B Volatile Organic Compounds / Low Level

##### Batch BF62718 - 5035

cis-1,3-Dichloropropene	23.8		ug/L	25.0		95	70-130			
Dibromochloromethane	24.7		ug/L	25.0		99	70-130			
Dibromomethane	25.0		ug/L	25.0		100	70-130			
Dichlorodifluoromethane	23.6		ug/L	25.0		94	70-130			
Diethyl Ether	23.3		ug/L	25.0		93	70-130			
Di-isopropyl ether	23.4		ug/L	25.0		94	70-130			
Ethyl tertiary-butyl ether	23.2		ug/L	25.0		93	70-130			
Ethylbenzene	25.1		ug/L	25.0		100	70-130			
Hexachlorobutadiene	25.7		ug/L	25.0		103	70-130			
Isopropylbenzene	22.0		ug/L	25.0		88	70-130			
Methyl tert-Butyl Ether	26.1		ug/L	25.0		104	70-130			
Methylene Chloride	24.5		ug/L	25.0		98	70-130			
Naphthalene	22.7		ug/L	25.0		91	70-130			
n-Butylbenzene	24.4		ug/L	25.0		98	70-130			
n-Propylbenzene	23.7		ug/L	25.0		95	70-130			
sec-Butylbenzene	23.8		ug/L	25.0		95	70-130			
Styrene	24.9		ug/L	25.0		100	70-130			
tert-Butylbenzene	24.0		ug/L	25.0		96	70-130			
Tertiary-amyl methyl ether	24.0		ug/L	25.0		96	70-130			
Tetrachloroethene	25.0		ug/L	25.0		100	70-130			
Tetrahydrofuran	20.9		ug/L	25.0		84	70-130			
Toluene	24.6		ug/L	25.0		98	70-130			
trans-1,2-Dichloroethene	27.9		ug/L	25.0		112	70-130			
trans-1,3-Dichloropropene	22.3		ug/L	25.0		89	70-130			
Trichloroethene	24.3		ug/L	25.0		97	70-130			
Trichlorofluoromethane	24.4		ug/L	25.0		98	70-130			
Vinyl Chloride	24.4		ug/L	25.0		98	70-130			
Xylene O	24.5		ug/L	25.0		98	70-130			
Xylene P,M	49.4		ug/L	50.0		99	70-130			
Surrogate: 1,2-Dichloroethane-d4	24.3		ug/L	25.0		97	70-130			
Surrogate: 4-Bromofluorobenzene	23.8		ug/L	25.0		95	70-130			
Surrogate: Dibromofluoromethane	24.1		ug/L	25.0		96	70-130			
Surrogate: Toluene-d8	23.4		ug/L	25.0		94	70-130			

##### LCS Dup

1,1,1,2-Tetrachloroethane	24.4		ug/L	25.0		98	70-130	0	20	
1,1,1-Trichloroethane	24.7		ug/L	25.0		99	70-130	0	20	
1,1,2,2-Tetrachloroethane	23.4		ug/L	25.0		94	70-130	3	20	
1,1,2-Trichloroethane	23.7		ug/L	25.0		95	70-130	0	20	
1,1-Dichloroethane	23.8		ug/L	25.0		95	70-130	1	20	
1,1-Dichloroethene	26.0		ug/L	25.0		104	70-130	0	20	
1,1-Dichloropropene	24.0		ug/L	25.0		96	70-130	0	20	
1,2,3-Trichlorobenzene	26.7		ug/L	25.0		107	70-130	4	20	
1,2,3-Trichloropropane	23.2		ug/L	25.0		93	70-130	11	20	
1,2,4-Trichlorobenzene	24.6		ug/L	25.0		98	70-130	1	20	
1,2,4-Trimethylbenzene	24.4		ug/L	25.0		98	70-130	1	20	
1,2-Dibromo-3-Chloropropane	23.8		ug/L	25.0		95	70-130	5	20	
1,2-Dibromoethane	23.9		ug/L	25.0		96	70-130	2	20	



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>5035/8260B Volatile Organic Compounds / Low Level</b>										
<b>Batch BF62718 - 5035</b>										
1,2-Dichlorobenzene	23.9		ug/L	25.0		96	70-130	1	20	
1,2-Dichloroethane	24.6		ug/L	25.0		98	70-130	0	20	
1,2-Dichloropropane	23.0		ug/L	25.0		92	70-130	0	20	
1,3,5-Trimethylbenzene	24.2		ug/L	25.0		97	70-130	1	20	
1,3-Dichlorobenzene	23.6		ug/L	25.0		94	70-130	0	20	
1,3-Dichloropropane	23.6		ug/L	25.0		94	70-130	0	20	
1,4-Dichlorobenzene	23.5		ug/L	25.0		94	70-130	1	20	
1,4-Dioxane - Screen	438		ug/L	500		88	70-130	6	20	
1-Chlorohexane	24.1		ug/L	25.0		96	70-130	1	20	
2,2-Dichloropropane	25.1		ug/L	25.0		100	70-130	2	20	
2-Butanone	111		ug/L	125		89	70-130	6	20	
2-Chlorotoluene	25.9		ug/L	25.0		104	70-130	6	20	
2-Hexanone	111		ug/L	125		89	70-130	3	20	
4-Chlorotoluene	24.0		ug/L	25.0		96	70-130	2	20	
4-Isopropyltoluene	24.1		ug/L	25.0		96	70-130	0	20	
4-Methyl-2-Pentanone	108		ug/L	125		86	70-130	5	20	
Acetone	107		ug/L	125		86	70-130	7	20	
Benzene	24.0		ug/L	25.0		96	70-130	0	20	
Bromobenzene	25.2		ug/L	25.0		101	70-130	1	20	
Bromochloromethane	25.4		ug/L	25.0		102	70-130	0	20	
Bromodichloromethane	26.3		ug/L	25.0		105	70-130	0.9	20	
Bromoform	25.0		ug/L	25.0		100	70-130	1	20	
Bromomethane	18.8		ug/L	25.0		75	70-130	1	20	
Carbon Disulfide	23.8		ug/L	25.0		95	70-130	1	20	
Carbon Tetrachloride	24.7		ug/L	25.0		99	70-130	0	20	
Chlorobenzene	24.4		ug/L	25.0		98	70-130	0	20	
Chloroethane	17.3		ug/L	25.0		69	70-130	7	20	
Chloroform	25.1		ug/L	25.0		100	70-130	0	20	+
Chloromethane	23.1		ug/L	25.0		92	70-130	1	20	
cis-1,2-Dichloroethene	25.9		ug/L	25.0		104	70-130	0	20	
cis-1,3-Dichloropropene	23.7		ug/L	25.0		95	70-130	0	20	
Dibromochloromethane	24.8		ug/L	25.0		99	70-130	0	20	
Dibromomethane	25.0		ug/L	25.0		100	70-130	0	20	
Dichlorodifluoromethane	23.0		ug/L	25.0		92	70-130	2	20	
Diethyl Ether	23.3		ug/L	25.0		93	70-130	0	20	
Di-isopropyl ether	23.1		ug/L	25.0		92	70-130	2	20	
Ethyl tertiary-butyl ether	23.2		ug/L	25.0		93	70-130	0	20	
Ethylbenzene	25.2		ug/L	25.0		101	70-130	1	20	
Hexachlorobutadiene	25.9		ug/L	25.0		104	70-130	1	20	
Isopropylbenzene	22.2		ug/L	25.0		89	70-130	1	20	
Methyl tert-Butyl Ether	26.4		ug/L	25.0		106	70-130	2	20	
Methylene Chloride	24.6		ug/L	25.0		98	70-130	0	20	
Naphthalene	24.2		ug/L	25.0		97	70-130	6	20	
n-Butylbenzene	24.7		ug/L	25.0		99	70-130	1	20	
n-Propylbenzene	23.4		ug/L	25.0		94	70-130	1	20	
sec-Butylbenzene	24.0		ug/L	25.0		96	70-130	1	20	
Styrene	24.7		ug/L	25.0		99	70-130	1	20	

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>5035/8260B Volatile Organic Compounds / Low Level</b>										
<b>Batch BF62718 - 5035</b>										
tert-Butylbenzene	24.2		ug/L	25.0		97	70-130	1	20	
Tertiary-amyl methyl ether	24.2		ug/L	25.0		97	70-130	1	20	
Tetrachloroethene	24.9		ug/L	25.0		100	70-130	0	20	
Tetrahydrofuran	22.0		ug/L	25.0		88	70-130	5	20	
Toluene	24.5		ug/L	25.0		98	70-130	0	20	
trans-1,2-Dichloroethene	27.8		ug/L	25.0		111	70-130	0.9	20	
trans-1,3-Dichloropropene	22.4		ug/L	25.0		90	70-130	1	20	
Trichloroethene	24.3		ug/L	25.0		97	70-130	0	20	
Trichlorofluoromethane	24.2		ug/L	25.0		97	70-130	1	20	
Vinyl Chloride	24.3		ug/L	25.0		97	70-130	1	20	
Xylene O	24.4		ug/L	25.0		98	70-130	0	20	
Xylene P,M	49.5		ug/L	50.0		99	70-130	0	20	
Surrogate: 1,2-Dichloroethane-d4	24.5		ug/L	25.0		98	70-130			
Surrogate: 4-Bromofluorobenzene	23.6		ug/L	25.0		94	70-130			
Surrogate: Dibromofluoromethane	23.9		ug/L	25.0		96	70-130			
Surrogate: Toluene-d8	23.3		ug/L	25.0		93	70-130			

### 5035/8260B Volatile Organic Compounds / Methanol

#### Batch BF62806 - 5035

<b>Blank</b>										
1,1,1,2-Tetrachloroethane	ND	100	ug/Kg wet							
1,1,1-Trichloroethane	ND	50.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	50.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	50.0	ug/Kg wet							
1,1-Dichloroethane	ND	50.0	ug/Kg wet							
1,1-Dichloroethene	ND	50.0	ug/Kg wet							
1,1-Dichloropropene	ND	50.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	50.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	50.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	50.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	50.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	250	ug/Kg wet							
1,2-Dibromoethane	ND	50.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,2-Dichloroethane	ND	50.0	ug/Kg wet							
1,2-Dichloropropane	ND	50.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	50.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,3-Dichloropropane	ND	50.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	5000	ug/Kg wet							
1-Chlorohexane	ND	50.0	ug/Kg wet							
2,2-Dichloropropane	ND	100	ug/Kg wet							
2-Butanone	ND	1250	ug/Kg wet							
2-Chlorotoluene	ND	50.0	ug/Kg wet							
2-Hexanone	ND	500	ug/Kg wet							
4-Chlorotoluene	ND	50.0	ug/Kg wet							

426

# Volatile Organics Calibration Data

## ANALYSIS SEQUENCE

BPF0045

Instrument: VMS4

Calibration ID: 0605037

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0045-TUN1	QC		1		6F06045		
BPF0045-CAL1	QC		2		6F06046	6E24035	
BPF0045-CAL2	QC		3		6F06047	6E24035	
BPF0045-CAL3	QC		4		6F06048	6E24035	
BPF0045-CAL4	QC		5		6F06049	6E24035	
BPF0045-CAL5	QC		6		6F06050	6E24035	
BPF0045-CAL6	QC		7		6F06051	6E24035	
BPF0045-SCV1	QC		8		6F06053	6E24035	

Samples Loaded By

Date

428

Data Processed By

Date

# ESS LABORATORY MS-4 RUN LOG

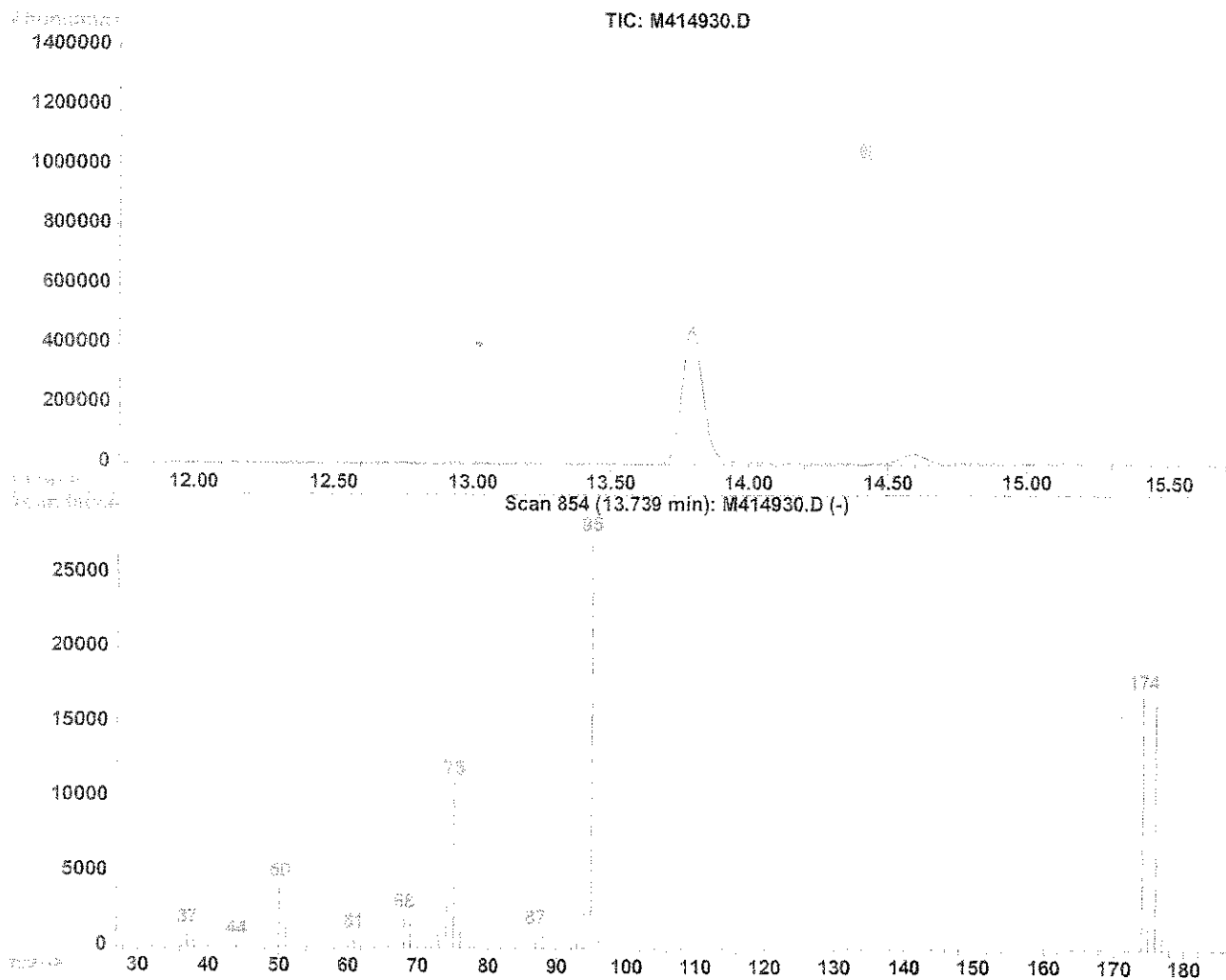
BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/16/06	7	M4 14922	0606019-06	AF050906	p H12	pe
	8	M4 23	-07			
	9	M4 24	-08			
	10	M4 26	-03		10X	
	11	M4 26	-04		10X	
	12	M4 27	-02		50X	
	13	M4 28	-04		50X	
	14	M4 29	-05	AF050906	100X	
6/16/06	1	M4 30	BPFO045 - TUM	LO052006	6F06045	pe
	2	M4 31	BPFO045 - CAL1		6F06046	
	3	M4 32	BPFO045 - CAL2		6F06047	
	4	M4 33	BPFO045 - CAL3		6F06048	
	5	M4 34	BPFO045 - CAL4		6F06049	
	6	M4 35	BPFO045 - CAL5		6F06050	
	7	M4 36	BPFO045 - CAL6		6F06051	
	8	M4 37	Test/Blk	LO052006		
6/16/06	9	M4 38	BPFO045 - SCV1	LO060606	6F06053	pe

Surrogate: 6E24033  
 On-column IS: 6E24033

**Run Sequence Confirmation**  
 Control Number 20.0023-0601A  
 All Standards must be noted with a primary or secondary ID

BFB

Data File : Q:/VOA/MS4\_MH/MH0606/MH060606\M414930.D Vial: 1  
Acq On : 6 Jun 2006 8:26 am Operator: MD  
Sample : BPF0045-TUN1 Inst : VOA MS4  
Misc : Multiplr: 1.00  
MS Integration Params: rteint.p  
Method : C:\HPCHEM\1\METHODS\LO052606.M (RTE Integrator)  
Title : Element ID: 0605024



Spectrum Information: Scan 854

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result
50	95	15	40	15.5	4266	PASS
75	95	30	60	40.5	11154	PASS
95	95	100	100	100.0	27546	PASS
96	95	5	9	7.7	2125	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	62.0	17069	PASS
175	174	5	9	8.2	1407	PASS
176	174	95	101	96.1	16395	PASS
177	176	5	9	8.2	1348	PASS

430

Response Factor Report VOA\_MS4

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0605024  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Initial Calibration

Calibration Files

25 =M414931.D 10 =M414932.D 5 =M414933.D  
 2.5 =M414934.D 50 =M414935.D 100 =M414936.D

Compound	25	10	5	2.5	50	100	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----							
2) Dichlorodifluoromet	0.310	0.311	0.354	0.399	0.307	0.317	0.333	11.03
3) Chloromethane	0.142	0.143	0.167	0.185	0.147	0.167	0.158	10.84
4) Vinyl Chloride	0.162	0.162	0.185	0.201	0.164	0.166	0.174	9.37
5) Bromomethane	0.147	0.153	0.181	0.191	0.143	0.143	0.160	13.12
6) Chloroethane	0.085	0.087	0.104	0.109	0.066	0.051	0.084	26.41
7) Trichlorofluorometh	0.540	0.544	0.628	0.678	0.544	0.567	0.584	9.74
8) Diethyl ether	0.098	0.098	0.113	0.120	0.101	0.102	0.105	8.63
9) Acrolein	0.019	0.020	0.025		0.020	0.019	0.021	11.91
10) 1,1,2-Trichloro-1,2	0.539	0.541	0.622	0.667	0.531	0.549	0.575	9.74
11) Acetone	0.008	0.008	0.011	0.012	0.009	0.009	0.009	13.32
12) Iodomethane	0.539	0.504	0.598	0.626	0.619	0.548	0.572	8.64
13) Carbon Disulfide	0.575	0.582	0.676	0.734	0.572	0.596	0.622	10.74
14) 1,1-Dichloroethene	0.230	0.235	0.269	0.291	0.227	0.230	0.247	10.87
15) Allyl Chloride	0.233	0.236	0.273	0.295	0.231	0.216	0.248	12.19
16) Methyl Acetate	0.088	0.091	0.125		0.096	0.093	0.099	15.44
17) Methylene Chloride	0.219	0.241	0.305	0.349	0.217	0.220	0.259	21.44
18) Tertiary-butyl Alco	0.015	0.016	0.020	0.029	0.017	0.017	0.019	26.87
19) Methyl tert-Butyl E	0.394	0.416	0.459	0.462	0.396	0.420	0.425	6.98
20) Acrylonitrile	0.033	0.036	0.039	0.040	0.035	0.035	0.036	8.21
21) trans-1,2-Dichloroe	0.264	0.284	0.300	0.322	0.265	0.276	0.285	7.91
22) 1,1-Dichloroethane	0.424	0.426	0.490	0.526	0.429	0.444	0.456	9.24
23) Chloroprene	0.260	0.259	0.294	0.314	0.263	0.273	0.277	8.03
24) Vinyl Acetate	0.638	0.643	0.758	0.798	0.657	0.660	0.692	9.85
25) Di-isopropyl ether	0.631	0.634	0.733	0.790	0.639	0.654	0.680	9.67
26) Ethyl tertiary-buty	0.580	0.578	0.665	0.714	0.596	0.613	0.624	8.69
27) 2-Butanone	0.016	0.016	0.020	0.021	0.018	0.017	0.018	10.65
28) cis-1,2 Dichloroeth	0.302	0.302	0.342	0.367	0.305	0.314	0.322	8.31
29) 2,2-Dichloropropane	0.366	0.364	0.416	0.463	0.358	0.375	0.390	10.59
30) Methyl Acrylate	0.167	0.168	0.207	0.209	0.182	0.178	0.185	10.03
31) Methacrylonitrile	0.092	0.101	0.123	0.130	0.101	0.099	0.108	14.21
32) Bromochloromethane	0.226	0.227	0.262	0.282	0.228	0.224	0.241	10.10
33) Tetrahydrofuran	0.045	0.047	0.058		0.047	0.045	0.048	11.66
34) Chloroform	0.534	0.530	0.610	0.660	0.542	0.566	0.574	8.99
35) 1,1,1-Trichloroetha	0.518	0.516	0.600	0.651	0.528	0.550	0.560	9.67
36) S Dibromofluoromethan	0.691	0.703	0.824	0.919	0.698	0.715	0.758	12.28
37) Cyclohexane	0.298	0.294	0.344	0.366	0.288	0.286	0.313	10.86
38) 1-Chlorobutane	0.372	0.388	0.442	0.478	0.387	0.404	0.412	9.77
39) 1,1-Dichloropropene	0.362	0.367	0.421	0.458	0.371	0.373	0.392	9.88
40) Carbon Tetrachlorid	0.563	0.563	0.659	0.720	0.577	0.603	0.614	10.27
41) Benzene	0.655	0.651	0.762	0.820	0.665	0.686	0.707	9.76
42) S 1,2-Dichloroethane-	0.224	0.226	0.267	0.293	0.229	0.236	0.246	11.34
43) 1,2-Dichloroethane	0.240	0.237	0.269	0.291	0.250	0.256	0.257	7.82
44) Tertiary-amyl methy	0.530	0.525	0.609	0.649	0.555	0.559	0.571	8.50

Response Factor Report VOA\_MS4

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0605024  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Initial Calibration

Calibration Files

25 =M414931.D 10 =M414932.D 5 =M414933.D  
 2.5 =M414934.D 50 =M414935.D 100 =M414936.D

	Compound	25	10	5	2.5	50	100	Avg	%RSD
45)	Trichloroethene	0.384	0.382	0.444	0.481	0.390	0.403	0.414	9.65
46)	Methyl Cyclohexane	0.374	0.371	0.429	0.454	0.380	0.391	0.400	8.43
47)	1,2-Dichloropropane	0.266	0.263	0.304	0.332	0.270	0.276	0.285	9.58
48)	Dibromomethane	0.314	0.310	0.362	0.387	0.323	0.326	0.337	9.11
49)	1,4-Dioxane	0.002	0.002	0.003	0.004	0.003	0.003	0.003	21.57
50)	Methyl Methacrylate	0.167	0.165	0.198	0.209	0.175	0.173	0.181	9.87
51)	Bromodichloromethan	0.553	0.537	0.615	0.683	0.556	0.575	0.587	9.26
52)	2-Nitropropane	0.042	0.043	0.053	0.056	0.047	0.045	0.048	11.96
53)	2-Chloroethyl vinyl	0.096	0.103	0.126	0.133	0.093	0.080	0.105	19.23
54)	4-Methyl-2-Pentanon	0.076	0.077	0.095	0.105	0.084	0.080	0.086	13.45
55)	cis-1,3-Dichloropro	0.412	0.401	0.458	0.502	0.415	0.426	0.436	8.69
56)	Toluene	0.511	0.500	0.579	0.634	0.512	0.533	0.545	9.54
57)	trans-1,3-Dichlorop	0.342	0.332	0.383	0.410	0.352	0.359	0.363	8.01
58)	1,1,2-Trichloroetha	0.228	0.225	0.269	0.286	0.235	0.235	0.246	10.21
59) I	Chlorobenzene-d5	-----ISTD-----							
60) S	Toluene-d8 (SURR)	1.009	1.001	1.152	1.264	1.011	1.062	1.083	9.72
61)	2-Hexanone	0.147	0.155	0.191	0.225	0.165	0.162	0.174	16.70
62)	Ethyl Methacrylate	0.348	0.351	0.415	0.437	0.366	0.366	0.380	9.64
63)	1,3-Dichloropropane	0.428	0.428	0.495	0.524	0.443	0.455	0.462	8.47
64)	Tetrachloroethene	0.457	0.454	0.522	0.572	0.460	0.477	0.490	9.70
65)	Dibromochloromethan	0.744	0.728	0.843	0.909	0.763	0.794	0.797	8.59
66)	1,2-Dibromoethane	0.562	0.561	0.649	0.691	0.584	0.595	0.607	8.59
67)	1-Chlorohexane	0.479	0.482	0.557	0.594	0.482	0.499	0.516	9.39
68)	Chlorobenzene	0.871	0.862	0.991	1.077	0.872	0.911	0.931	9.25
69)	1,1,1,2-Tetrachloro	0.498	0.503	0.591	0.647	0.500	0.522	0.543	11.40
70)	Ethylbenzene	1.216	1.191	1.367	1.504	1.210	1.264	1.292	9.42
71)	Xylene P,M	0.499	0.494	0.571	0.621	0.500	0.519	0.534	9.61
72)	Xylene O	0.471	0.476	0.543	0.596	0.473	0.488	0.508	10.00
73)	Styrene	0.819	0.804	0.918	0.999	0.819	0.850	0.868	8.76
74)	Bromoform	0.541	0.526	0.617	0.661	0.570	0.583	0.583	8.53
75)	cis-1,4-Dichloro-2-	0.111	0.127	0.112	0.119	0.113	0.110	0.115	5.84
76) S	Bromofluorobenzene	0.684	0.680	0.783	0.873	0.679	0.702	0.733	10.80
77) I	1,4 Dichlorobenzene-D	-----ISTD-----							
78)	Isopropylbenzene	2.395	2.382	2.735	3.010	2.412	2.587	2.587	9.64
79)	Trans-1,4-Dichloro-	0.145	0.138	0.159	0.171	0.156	0.163	0.155	7.79
80)	1,2,3-Trichloroprop	0.653	0.653	0.852	0.861	0.705	0.768	0.748	12.53
81)	Bromobenzene	0.842	0.836	0.961	1.058	0.856	0.907	0.910	9.54
82)	1,1,2,2-Tetrachloro	0.864	0.870	1.053	1.256	0.916	0.933	0.982	15.32
83)	n-Propylbenzene	3.166	3.070	3.512	3.848	3.101	3.185	3.314	9.24
84)	2-Chlorotoluene	1.422	1.484	1.746	1.895	1.493	1.709	1.625	11.45
85)	4-Chlorotoluene	2.010	2.012	2.291	2.677	1.998	2.131	2.186	12.13
86)	1,3,5-Trimethylbenz	1.963	1.949	2.275	2.505	1.973	2.102	2.128	10.45
87)	Pentachloroethane	2.772	2.760	3.190	3.550	2.776	2.916	2.994	10.62



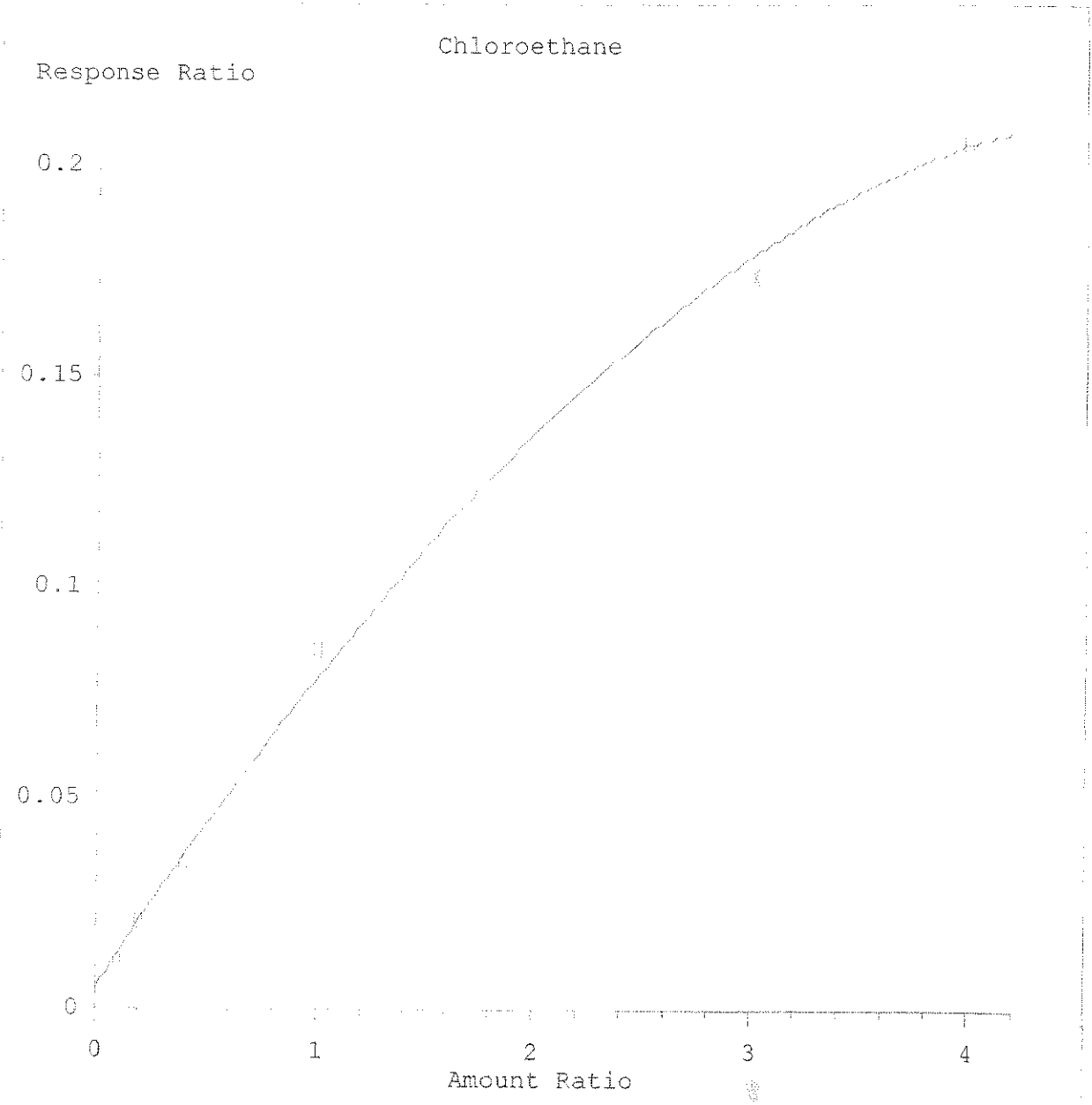
Response Factor Report VOA\_MS4

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0605024  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Initial Calibration

Calibration Files

25 =M414931.D 10 =M414932.D 5 =M414933.D  
 2.5 =M414934.D 50 =M414935.D 100 =M414936.D

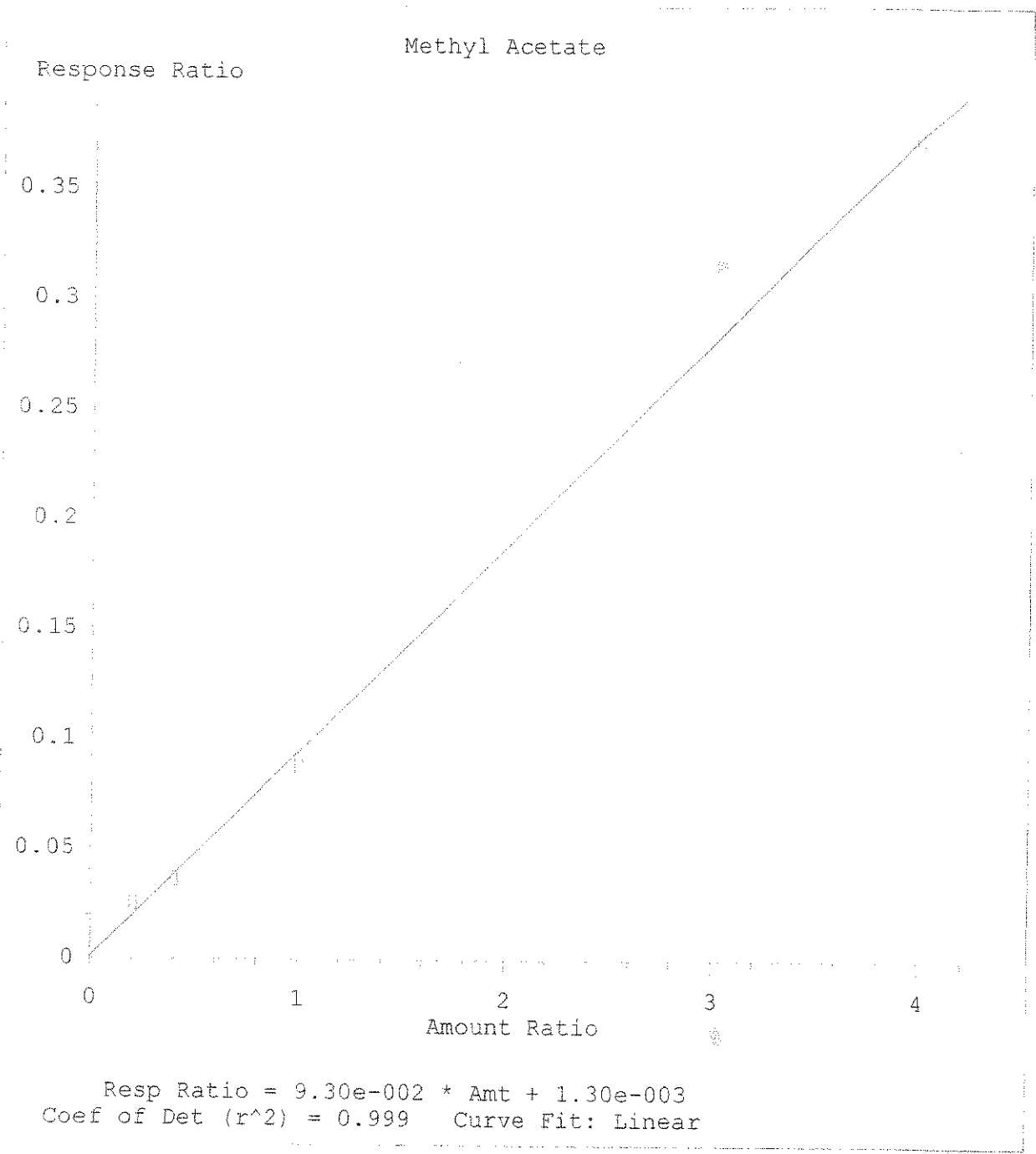
	Compound	25	10	5	2.5	50	100	Avg	%RSD
88)	tert-Butylbenzene	2.772	2.760	3.190	3.550	2.776	2.916	2.994	10.62
89)	1,2,4-Trimethylbenz	1.981	1.992	2.288	2.524	1.993	2.132	2.152	10.12
90)	sec-Butylbenzene	2.968	2.940	3.391	3.812	2.991	3.188	3.215	10.54
91)	1,3 Dichlorobenzene	1.430	1.418	1.649	1.828	1.427	1.521	1.545	10.61
92)	4-Isopropyltoluene	2.409	2.397	2.822	3.087	2.406	2.531	2.609	10.93
93)	1,4 Dichlorobenzene	1.481	1.455	1.754	1.950	1.477	1.554	1.612	12.34
94)	n-Butylbenzene	2.176	2.166	2.485	2.717	2.163	2.289	2.333	9.66
95)	1,2 Dichlorobenzene	1.283	1.308	1.499	1.679	1.292	1.362	1.404	11.18
96)	Hexachloroethane	0.930	0.906	1.035	1.132	0.943	1.008	0.993	8.45
97)	1,2-Dibromo-3-Chlor	0.157	0.158	0.198		0.178	0.179	0.174	9.83
98)	1,2,4-Trichlorobenz	1.060	1.065	1.241	1.496	1.051	1.109	1.170	14.90
99)	Hexachlorobutadiene	0.766	0.762	0.890	1.007	0.771	0.808	0.834	11.69
100)	Naphthalene	1.406	1.476	1.818	2.372	1.486	1.529	1.681	21.86
101)	1,2,3-Trichlorobenz	0.877	0.907	1.061	1.370	0.888	0.931	1.006	18.93



$$R = -7.80e-003 A^2 + 8.12e-002 A + 4.82e-003$$

Curve Fit: Quadratic

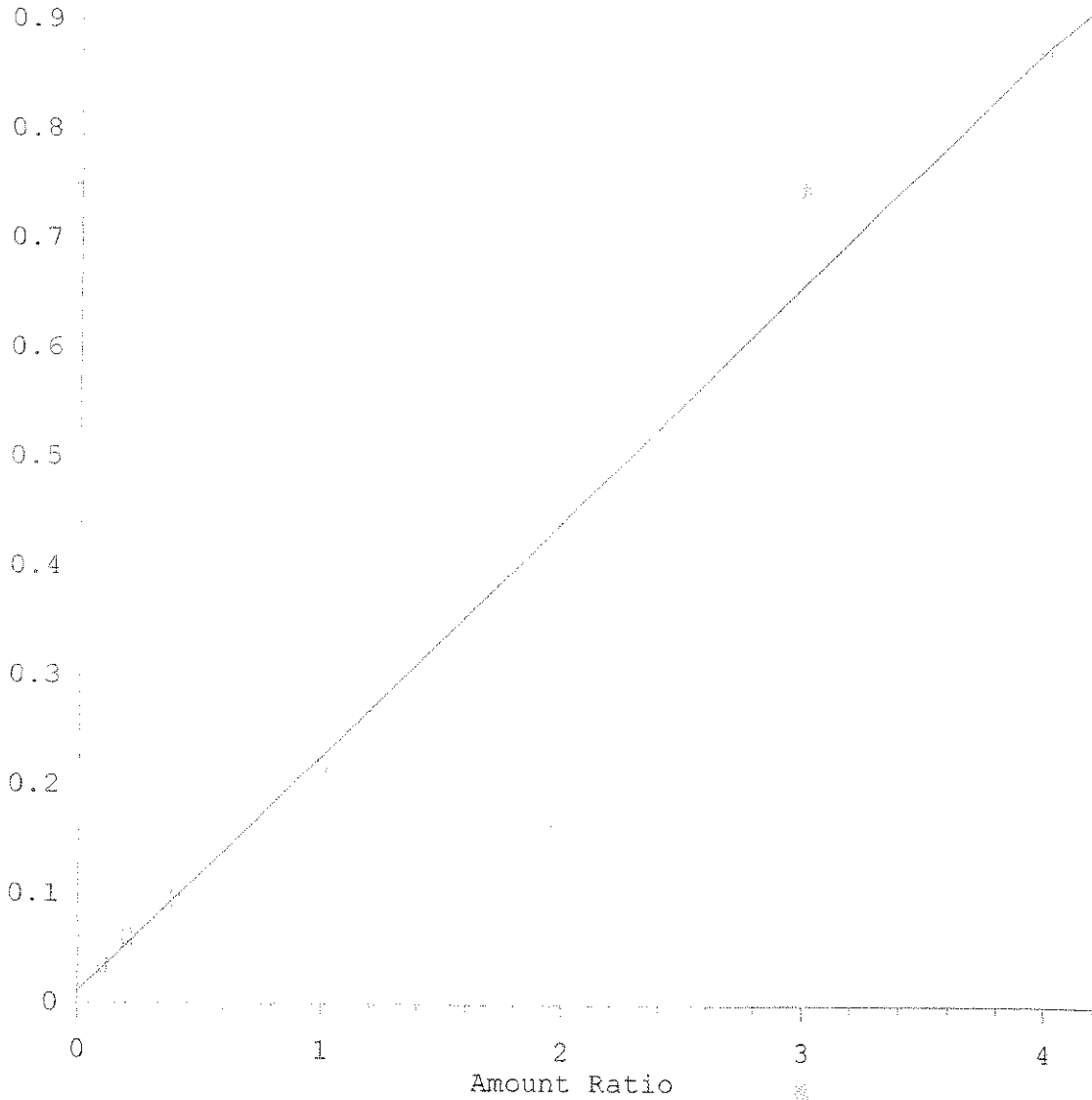
Method Name: C:\HPCHEM\1\METHODS\LO060606.M  
Calibration Table Last Updated: Tue Jun 06 12:23:38 2006



Method Name: C:\HPCHEM\1\METHODS\LO060606.M  
Calibration Table Last Updated: Tue Jun 06 12:24:44 2006

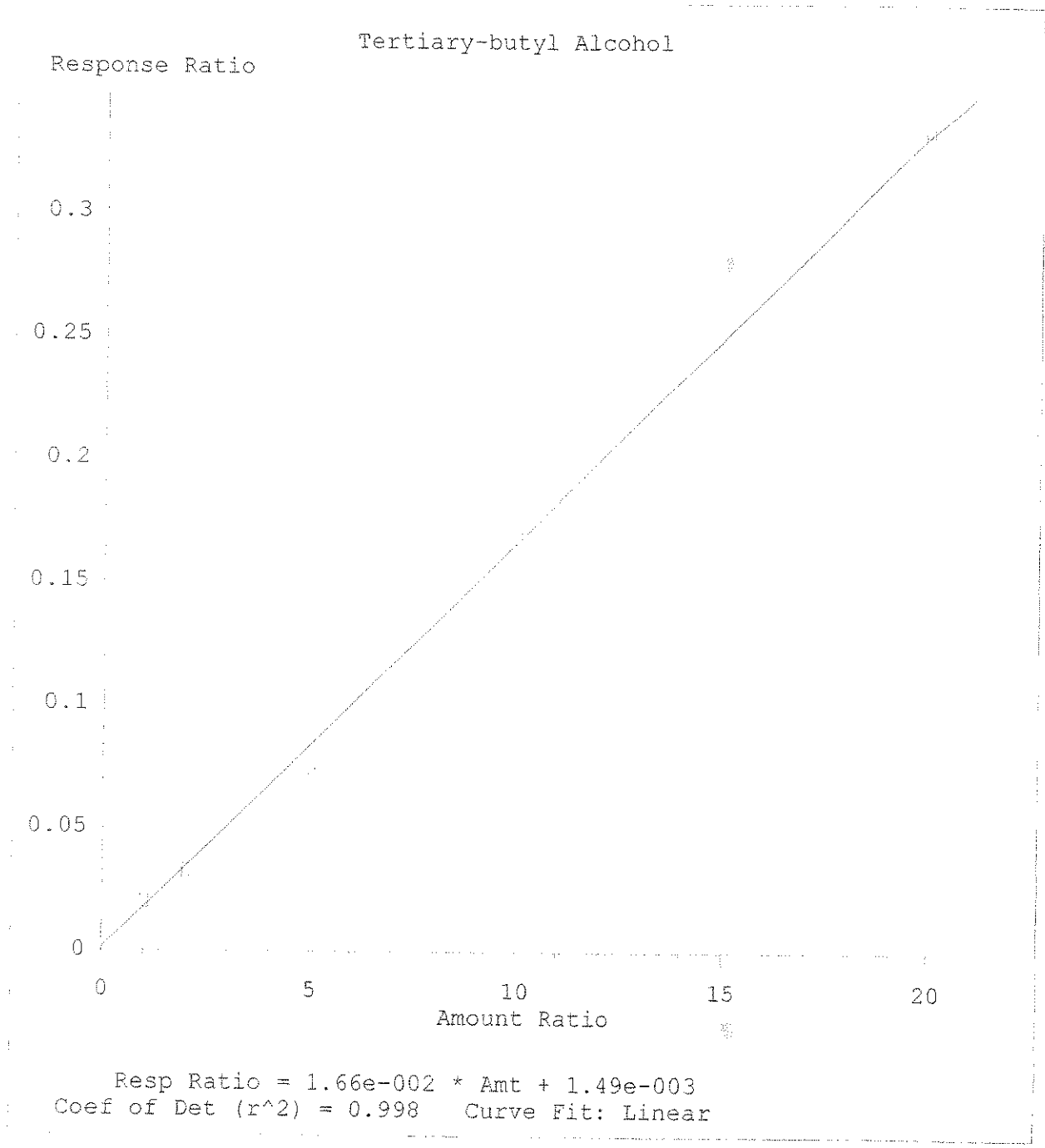
Methylene Chloride

Response Ratio



Resp Ratio = 2.16e-001 \* Amt + 1.07e-002  
Coef of Det (r^2) = 1.000 Curve Fit: Linear

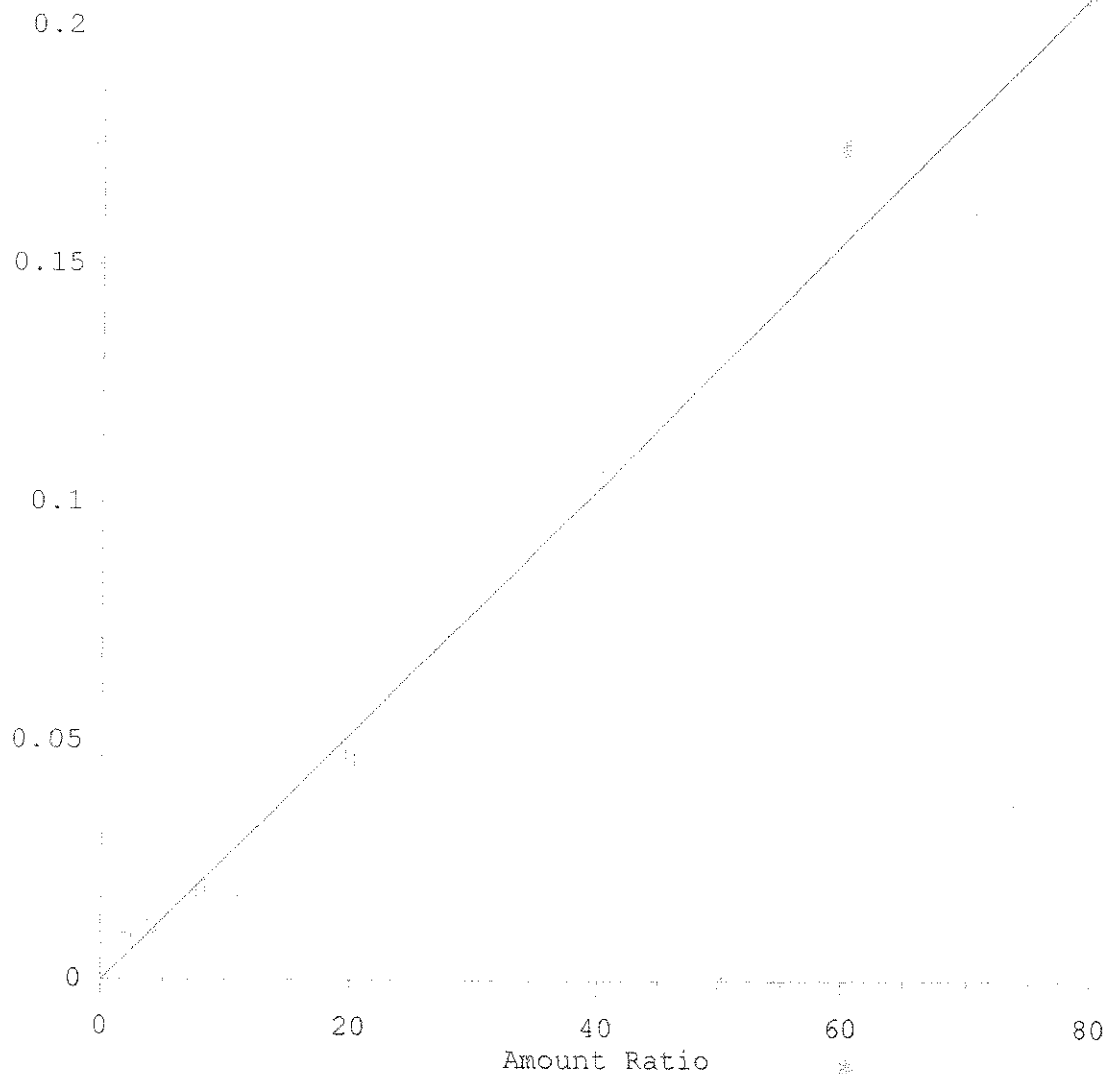
Method Name: C:\HPCHEM\1\METHODS\LO060606.M  
Calibration Table Last Updated: Tue Jun 06 12:25:03 2006



Method Name: C:\HPCHEM\1\METHODS\LO060606.M  
 Calibration Table Last Updated: Tue Jun 06 12:25:08 2006

1,4-Dioxane

Response Ratio

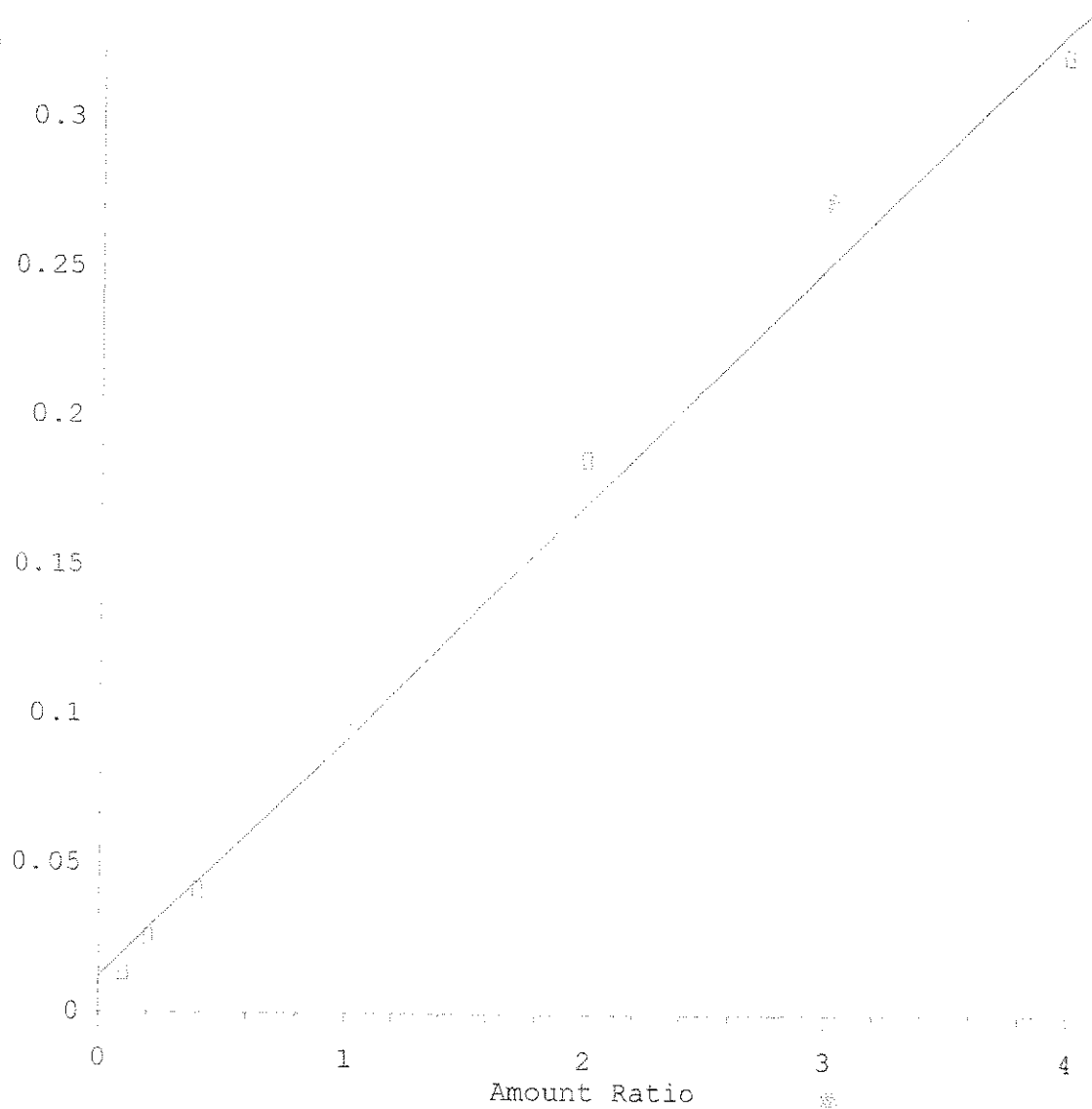


Resp Ratio = 2.58e-003 \* Amt - 1.78e-004  
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M  
Calibration Table Last Updated: Tue Jun 06 12:25:24 2006

2-Chloroethyl vinyl ether

Response Ratio

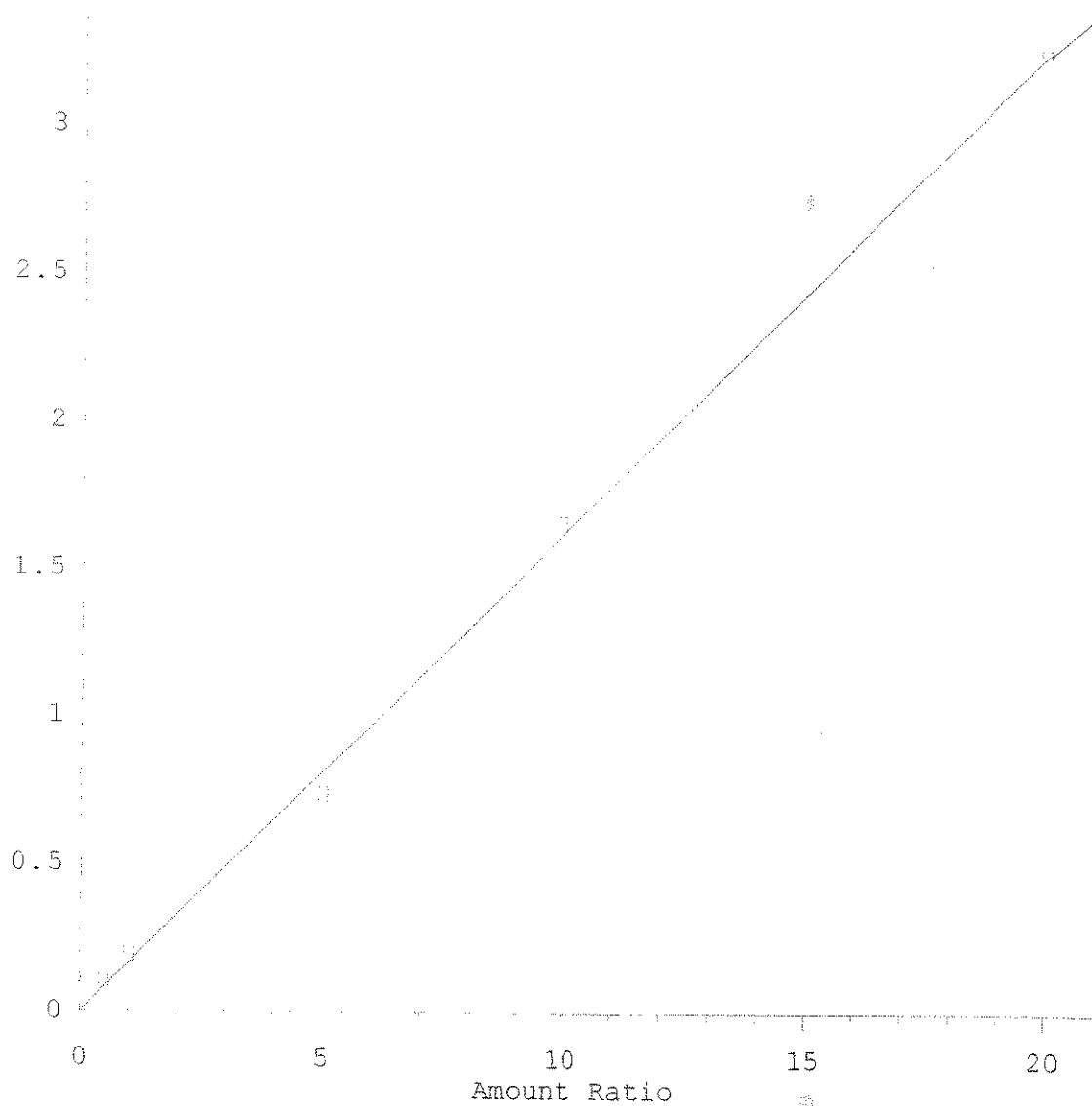


Resp Ratio =  $7.94e-002 * Amt + 1.19e-002$   
Coef of Det ( $r^2$ ) = 0.995 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M  
Calibration Table Last Updated: Tue Jun 06 12:25:36 2006

2-Hexanone

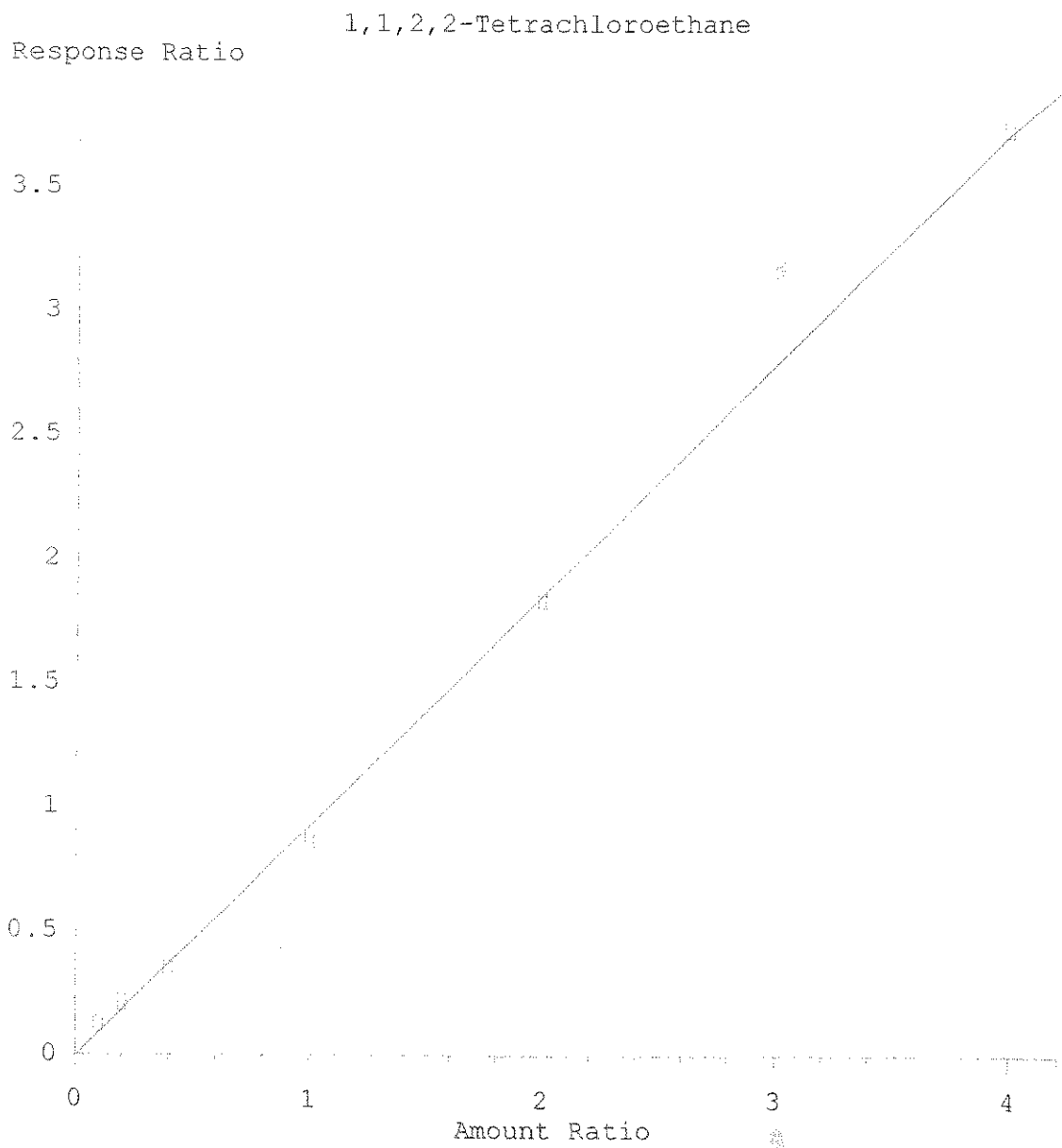
Response Ratio



Resp Ratio = 1.62e-001 \* Amt + 2.61e-003  
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M  
Calibration Table Last Updated: Tue Jun 06 12:25:51 2006



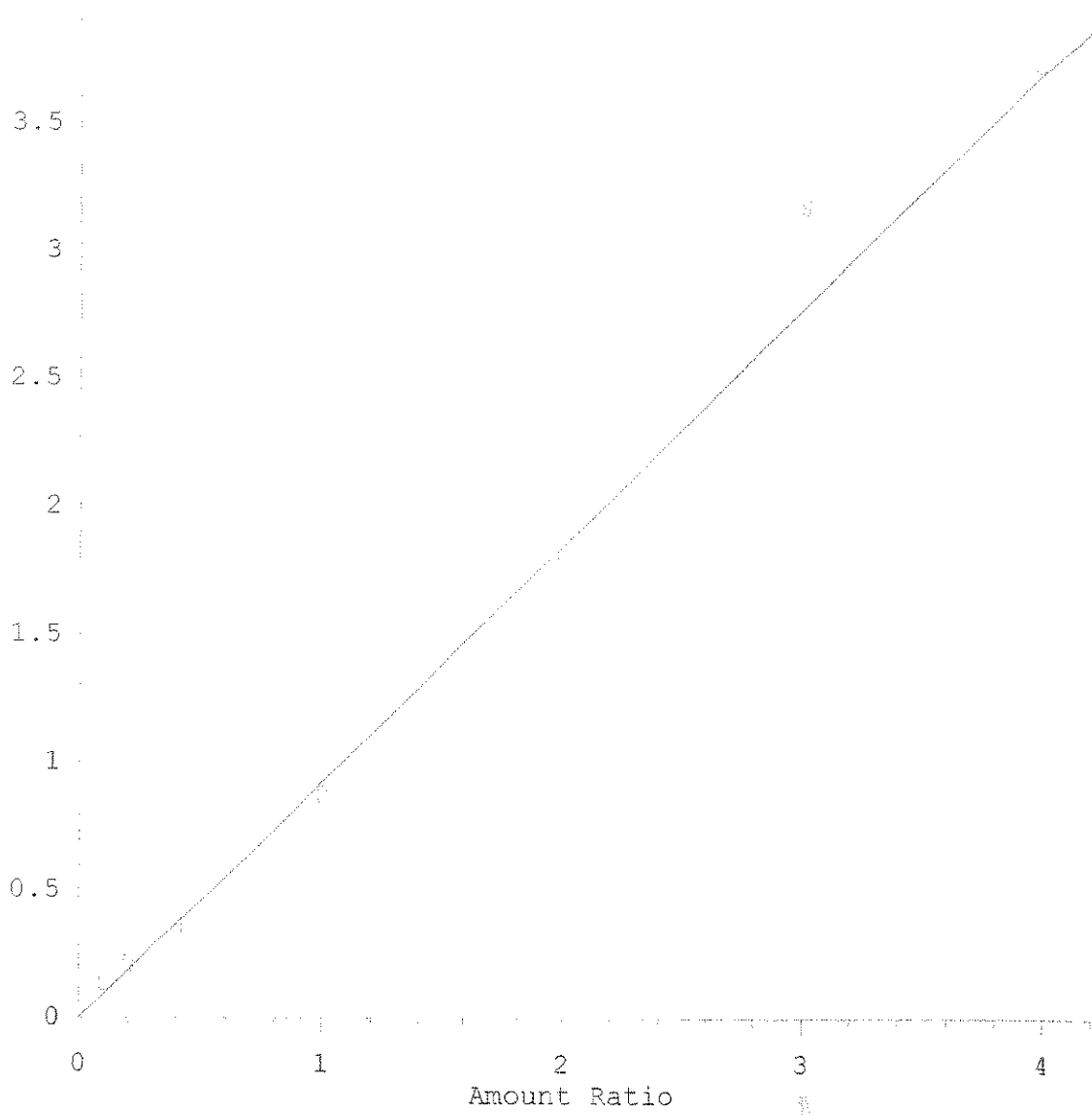


Resp Ratio =  $9.29e-001 * Amt - 6.52e-003$   
Coef of Det ( $r^2$ ) = 0.999    Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M  
Calibration Table Last Updated: Tue Jun 06 12:26:03 2006

1,2,3-Trichlorobenzene

Response Ratio

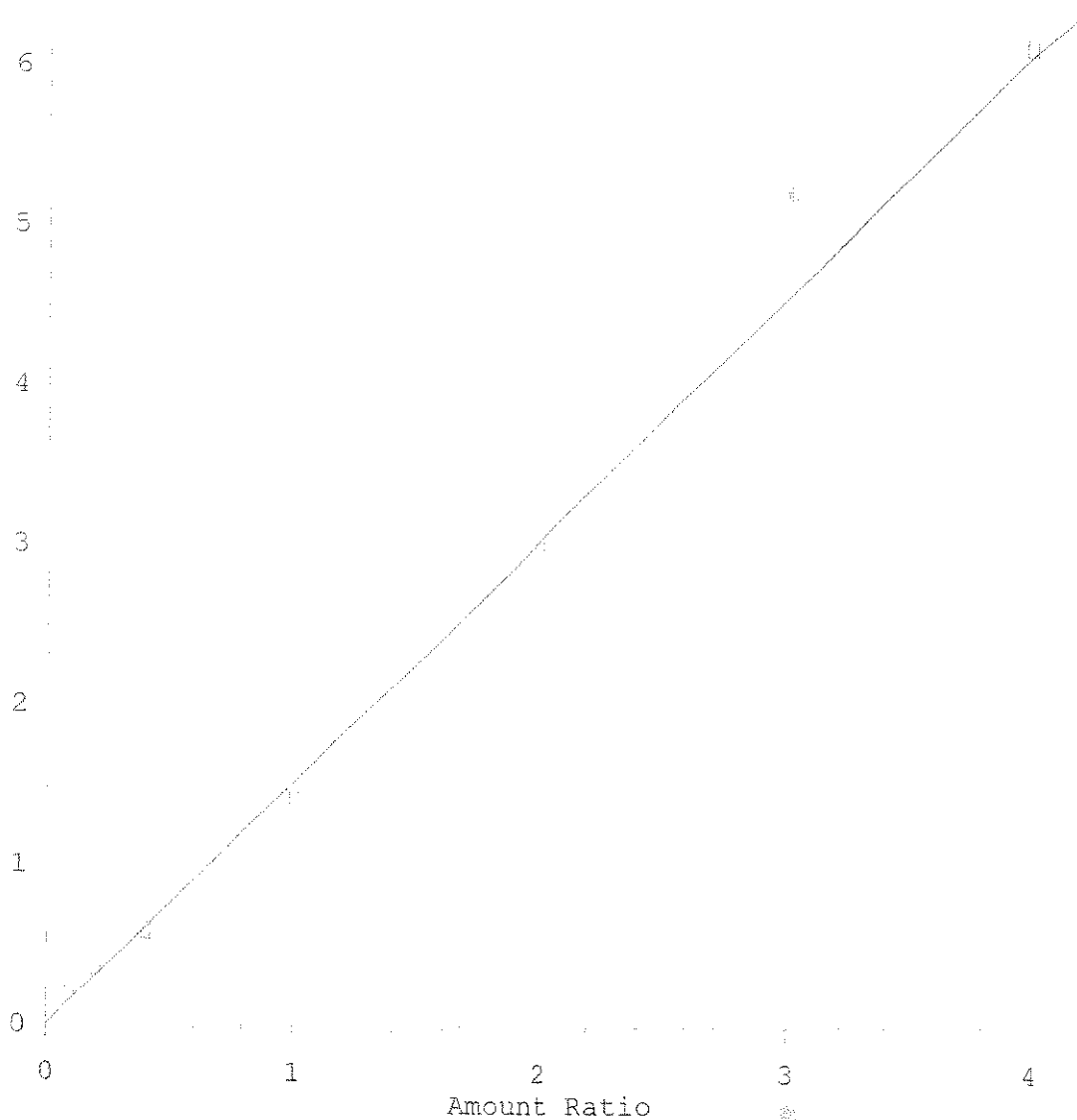


Resp Ratio = 9.21e-001 \* Amt - 8.41e-005  
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M  
Calibration Table Last Updated: Tue Jun 06 12:26:38 2006

Naphthalene

Response Ratio



Resp Ratio = 1.51e+000 \* Amt + 4.82e-003  
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\LO060606.M  
Calibration Table Last Updated: Tue Jun 06 12:26:31 2006

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4\_MH\MH0606\MH060606\M414938.D Vial: 9  
 Acq On : 6 Jun 2006 12:54 pm Operator: MD  
 Sample : BPF0045-SCV1 Inst : VOA MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0606010  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
1 I	Fluorobenzene	1.000	1.000	0.0	98	0.00
2	Dichlorodifluoromethane	0.333	0.392	-17.7	124	0.00
3	Chloromethane	0.158	0.166	-5.1	114	0.00
4	Vinyl Chloride	0.174	0.184	-5.7	111	0.00
5	Bromomethane	0.160	0.154	3.8	102	0.00
6	Chloroethane	0.084	0.058	31.0#	67	0.00
7	Trichlorofluoromethane	0.584	0.570	2.4	103	0.00
8	Diethyl ether	0.105	0.108	-2.9	109	0.00
9	Acrolein	0.021	0.013	38.1#	70	0.01
10	1,1,2-Trichloro-1,2,2-trifl	0.575	0.558	3.0	101	0.00
11	Acetone	0.009	0.008	11.1	98	0.00
12	Iodomethane	0.572	0.627	-9.6	114	0.00
13	Carbon Disulfide	0.622	0.643	-3.4	110	0.00
14	1,1-Dichloroethene	0.247	0.264	-6.9	112	0.00
15	Allyl Chloride	0.248	0.238	4.0	100	0.00
16	Methyl Acetate	0.099	0.098	1.0	109	0.00
17	Methylene Chloride	0.259	0.240	7.3	107	0.00
18	Tertiary-butyl Alcohol	0.019	0.000	100.0#	0#	-2.98#
19	Methyl tert-Butyl Ether	0.425	0.411	3.3	102	0.00
20	Acrylonitrile	0.036	0.034	5.6	102	0.00
21	trans-1,2-Dichloroethene	0.285	0.285	0.0	105	0.00
22	1,1-Dichloroethane	0.456	0.450	1.3	104	0.00
23	Chloroprene	0.277	0.000	100.0#	0#	-3.68#
24	Vinyl Acetate	0.692	0.671	3.0	103	0.00
25	Di-isopropyl ether	0.680	0.690	-1.5	107	0.00
26	Ethyl tertiary-butyl ether	0.624	0.611	2.1	103	0.00
27	2-Butanone	0.018	0.017	5.6	103	0.00
28	cis-1,2 Dichloroethene	0.322	0.342	-6.2	111	0.00
29	2,2-Dichloropropane	0.390	0.379	2.8	101	0.00
30	Methyl Acrylate	0.185	0.179	3.2	105	0.00
31	Methacrylonitrile	0.108	0.098	9.3	104	0.00
32	Bromochloromethane	0.241	0.243	-0.8	105	0.00
33	Tetrahydrofuran	0.048	0.048	0.0	105	0.00
34	Chloroform	0.574	0.572	0.3	105	0.00
35	1,1,1-Trichloroethane	0.560	0.555	0.9	105	0.00
36 S	Dibromofluoromethane (SURR)	0.758	0.729	3.8	103	0.00
37	Cyclohexane	0.313	0.321	-2.6	106	0.00
38	1-Chlorobutane	0.412	0.429	-4.1	113	0.00
39	1,1-Dichloropropene	0.392	0.387	1.3	105	0.00
40	Carbon Tetrachloride	0.614	0.601	2.1	104	0.00
41	Benzene	0.707	0.711	-0.6	106	0.00
42 S	1,2-Dichloroethane-d4 (SURR)	0.246	0.234	4.9	102	0.00

(#) = Out of Range

444

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4 MH\MH0606\MH060606\M414938.D Vial: 9  
 Acq On : 6 Jun 2006 12:54 pm Operator: MD  
 Sample : BPF0045-SCV1 Inst : VOA MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0606010  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
43	1,2-Dichloroethane	0.257	0.246	4.3	100	0.00
44	Tertiary-amyl methyl ether	0.571	0.576	-0.9	106	0.00
45	Trichloroethene	0.414	0.408	1.4	104	0.00
46	Methyl Cyclohexane	0.400	0.415	-3.7	109	0.00
47	1,2-Dichloropropane	0.285	0.277	2.8	102	0.00
48	Dibromomethane	0.337	0.342	-1.5	106	0.00
49	1,4-Dioxane	0.003	0.003	0.0	109	0.00
50	Methyl Methacrylate	0.181	0.170	6.1	100	0.00
51	Bromodichloromethane	0.587	0.613	-4.4	108	0.00
52	2-Nitropropane	0.048	0.047	2.1	108	0.00
53	2-Chloroethyl vinyl ether	0.105	0.112	-6.7	114	0.00
54	4-Methyl-2-Pentanone	0.086	0.080	7.0	103	0.00
55	cis-1,3-Dichloropropene	0.436	0.417	4.4	99	0.00
56	Toluene	0.545	0.542	0.6	104	0.00
57	trans-1,3-Dichloropropene	0.363	0.320	11.8	92	0.00
58	1,1,2-Trichloroethane	0.246	0.240	2.4	103	0.00
59 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
60 S	Toluene-d8 (SURR)	1.083	1.056	2.5	102	0.00
61	2-Hexanone	0.174	0.158	9.2	105	0.01
62	Ethyl Methacrylate	0.380	0.361	5.0	101	0.00
63	1,3-Dichloropropane	0.462	0.456	1.3	103	0.00
64	Tetrachloroethene	0.490	0.481	1.8	102	0.00
65	Dibromochloromethane	0.797	0.806	-1.1	105	0.00
66	1,2-Dibromoethane	0.607	0.588	3.1	102	0.00
67	1-Chlorohexane	0.516	0.512	0.8	104	0.00
68	Chlorobenzene	0.931	0.912	2.0	102	0.00
69	1,1,1,2-Tetrachloroethane	0.543	0.522	3.9	102	0.00
70	Ethylbenzene	1.292	1.305	-1.0	104	0.00
71	Xylene P,M	0.534	0.534	0.0	104	0.00
72	Xylene O	0.508	0.503	1.0	104	0.00
73	Styrene	0.868	0.879	-1.3	104	0.00
74	Bromoform	0.583	0.578	0.9	104	0.00
75	cis-1,4-Dichloro-2-butene	0.115	0.000	100.0#	0#	-13.74#
76 S	Bromofluorobenzene (SURR)	0.733	0.713	2.7	101	0.00
77 I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	95	0.00
78	Isopropylbenzene	2.587	2.385	7.8	95	0.00
79	Trans-1,4-Dichloro-2-Butene	0.155	0.144	7.1	94	0.00
80	1,2,3-Trichloropropane	0.748	0.742	0.8	108	0.00
81	Bromobenzene	0.910	0.943	-3.6	106	0.00
82	1,1,2,2-Tetrachloroethane	0.982	0.923	6.0	101	0.00

(#) = Out of Range

445

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4 MH\MH0606\MH060606\M414938.D Vial: 9  
 Acq On : 6 Jun 2006 12:54 pm Operator: MD  
 Sample : BPF0045-SCV1 Inst : VOA MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0606010  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	n-Propylbenzene	3.314	3.324	-0.3	100	0.00
84	2-Chlorotoluene	1.625	1.620	0.3	108	0.00
85	4-Chlorotoluene	2.186	2.143	2.0	101	0.00
86	1,3,5-Trimethylbenzene	2.128	2.146	-0.8	104	0.00
87	Pentachloroethane	2.994	2.994	0.0	103	0.00
88	tert-Butylbenzene	2.994	2.994	0.0	103	0.00
89	1,2,4-Trimethylbenzene	2.152	2.186	-1.6	105	0.00
90	sec-Butylbenzene	3.215	3.196	0.6	102	0.00
91	1,3 Dichlorobenzene	1.545	1.494	3.3	99	0.00
92	4-Isopropyltoluene	2.609	2.568	1.6	101	0.00
93	1,4 Dichlorobenzene	1.612	1.532	5.0	98	0.00
94	n-Butylbenzene	2.333	2.336	-0.1	102	0.00
95	1,2 Dichlorobenzene	1.404	1.369	2.5	101	0.00
96	Hexachloroethane	0.993	1.002	-0.9	102	0.00
97	1,2-Dibromo-3-Chloropropane	0.174	0.173	0.6	105	0.00
98	1,2,4-Trichlorobenzene	1.170	1.126	3.8	101	0.00
99	Hexachlorobutadiene	0.834	0.815	2.3	101	0.00
100	Naphthalene	1.681	1.562	7.1	105	0.00
101	1,2,3-Trichlorobenzene	1.006	0.965	4.1	104	0.00

## ANALYSIS SEQUENCE

BPF0198

Instrument: VMS4

Calibration ID: 0606010

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606375-04	FB: 5035/8260 ppb DoD Low	A	1			6F22041	RC & D
0606375-02	OC: 5035/8260 ppb DoD Low	D	2			6F22041	RC & D
0606373-17	DC: x5035/8260 ppb Low Lev	E	3			6F22041	MACTEC Engineering & Consulting, Inc
0606373-16	DC: x5035/8260 ppb Low Lev	E	4			6F22041	MACTEC Engineering & Consulting, Inc
0606373-15	DC: x5035/8260 ppb Low Lev	E	5			6F22041	MACTEC Engineering & Consulting, Inc
0606373-14	DC: x5035/8260 ppb Low Lev	E	6			6F22041	MACTEC Engineering & Consulting, Inc
0606373-13	DC: x5035/8260 ppb Low Lev	E	7			6F22041	MACTEC Engineering & Consulting, Inc
0606373-12	DC: x5035/8260 ppb Low Lev	E	8			6F22041	MACTEC Engineering & Consulting, Inc
0606373-11	FB: 5035/8260 ppb Low Lev	A	9			6F22041	MACTEC Engineering & Consulting, Inc
0606373-10	DC: x5035/8260 ppb Low Lev	D	10			6F22041	MACTEC Engineering & Consulting, Inc
0606373-09	DC: x5035/8260 ppb Low Lev	E	11			6F22041	MACTEC Engineering & Consulting, Inc
0606373-06	DC: x5035/8260 ppb Low Lev	F	12			6F22041	MACTEC Engineering & Consulting, Inc
0606373-05	DC: x5035/8260 ppb Low Lev	F	13			6F22041	MACTEC Engineering & Consulting, Inc
0606373-04	DC: x5035/8260 ppb Low Lev	F	14			6F22041	MACTEC Engineering & Consulting, Inc
0606373-03	DC: x5035/8260 ppb Low Lev	F	15			6F22041	MACTEC Engineering & Consulting, Inc
0606373-02	DC: x5035/8260 ppb Low Lev	F	16			6F22041	MACTEC Engineering & Consulting, Inc
0606373-01	DC: x5035/8260 ppb Low Lev	F	17			6F22041	MACTEC Engineering & Consulting, Inc
BF62324-BLK1	QC		18			6F22041	
BF62324-BS1	QC		19			6F22041	
BF62324-BSD1	QC		20			6F22041	
BPF0198-CCV1	QC		21		6F23043	6F22041	
BPF0198-TUN1	QC		22		6F23042		

# ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/23/06	13	M4 15109	Chd. 3 21-02	Acc61306		ee
	14	M4 10	-03		PI-conv	
	16	M4 11	-01			
	16	M4 12	Test Blk			
	17	M4 13	Test Blk			
	18	M4 14	Test Blk			
	19	M4 16	Test Blk	Acc61306		
	1	M4 16	PPFO198-TUM	100000	6F23012	
	2	M4 17	BF0198-conv		6F23013	
	3	M4 18	BF62324-BS1		CF23014	
4	M4 19	BF62324-BS01		6F23014		
5	M4 20	Test Blk				
6	M4 21	BF62324-BLK1				
7	M4 22	Chd. 3 25-04		5/10 - TD	02823	
8	M4 23	-02		6.7/10	02835	
9	M4 24	Chd. 3 23-01		3.6/10	04236	
10	M4 26	-02		6.6/10	04237	

Run Sequence Confirmation  
 Control Number 20.0023-0601A  
 All Standards must be noted with a primary or secondary ID

Surrogate: 6F22029  
 On-column IS: 6F22011

081



# ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/23/02	11	M4 15126	0606373-03	Leob6666	7.2/10	P4238
	12	M4	-01		4.8/10	P4239
	13	M4	-05		4.1/10	P4242
	14	M4	-06		3/10	P4244
	15	M4	-07		2.9/10	P4231
	16	M4	Test Blank			
	17	M4	0606373-09		7/10	P4226
	18	M4	-10		5.1/10	P4229
	19	M4	-11		5/10-5B	P4228
	20	M4	-12		3.7/10	P388
	21	M4	-13		5/2/10	P4214
	22	M4	-14		7.6/10	P4210
	23	M4	-15		4.0/10	P4233
	24	M4	-16		7.3/10	P4220
6/23/02	26	M4	-17	Leob6666	7.4/10	P4197
6/26/02	1	M4	APFO210-TM		6F26088	
6/26/02	2	M4	APFO210-CM	Leob6666	6F26089	

Run Sequence Confirmation

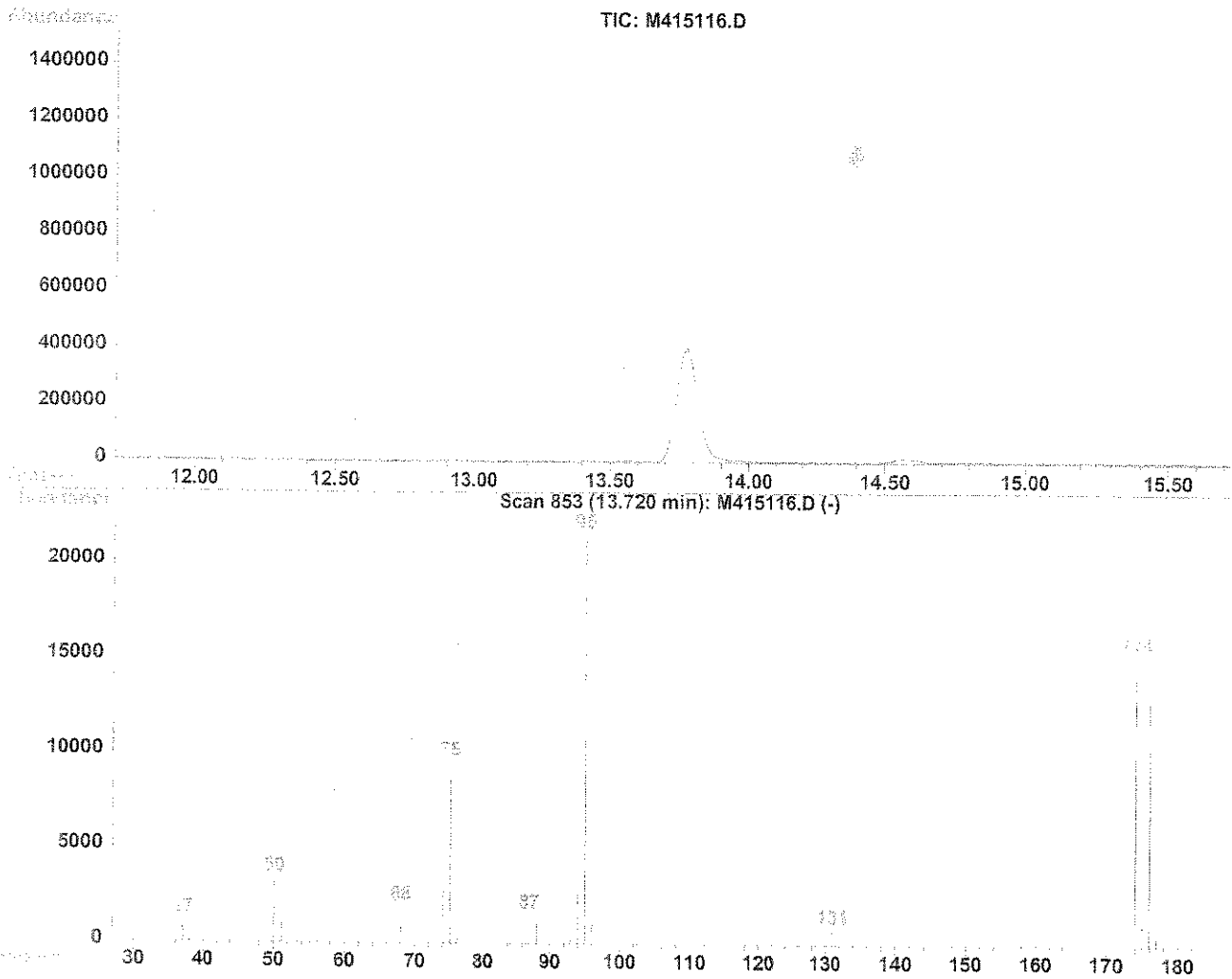
Control Number 20.0023-0601A

Surrogate: 6F22089  
 On-column IS: 6F22041

All Standards must be noted with a primary or secondary ID

BFB

Data File : Q:/VOA/MS4\_MH/MH0606/MH062306\M415116.D Vial: 1  
Acq On : 23 Jun 2006 8:51 am Operator: MD  
Sample : BPF0198-TUN1 Inst : VOA\_MS4  
Misc : Multiplr: 1.00  
MS Integration Params: rteint.p  
Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
Title : Element ID: 0606010



Spectrum Information: Scan 853

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result
50	95	15	40	15.6	3363	PASS
75	95	30	60	44.2	9513	PASS
95	95	100	100	100.0	21506	PASS
96	95	5	9	8.4	1808	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	70.2	15105	PASS
175	174	5	9	7.9	1190	PASS
176	174	95	101	98.6	14899	PASS
177	176	5	9	6.9	1033	PASS

450

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4\_MH/MH0606/MH062306\M415117.D Vial: 2  
 Acq On : 23 Jun 2006 9:20 am Operator: MD  
 Sample : BPF0198-CCV1 Inst : VOA MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0606010  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	92	-0.02
2	Dichlorodifluoromethane	0.333	0.316	5.1	94	0.00
3	Chloromethane	0.158	0.142	10.1	92	-0.02
4	Vinyl Chloride	0.174	0.166	4.6	94	0.00
5	Bromomethane	0.160	0.141	11.9	88	0.00
6	Chloroethane	0.084	0.085	-1.2	92	0.00
7	Trichlorofluoromethane	0.584	0.555	5.0	95	0.00
8	Diethyl ether	0.105	0.096	8.6	90	0.00
9	Acrolein	0.021	0.017	19.0	86	0.00
10	1,1,2-Trichloro-1,2,2-trifl	0.575	0.550	4.3	94	0.00
11	Acetone	0.009	0.009	0.0	100	0.00
12	Iodomethane	0.572	0.568	0.7	97	0.00
13	Carbon Disulfide	0.622	0.582	6.4	93	0.00
14	1,1-Dichloroethene	0.247	0.235	4.9	94	0.00
15	Allyl Chloride	0.248	0.228	8.1	90	0.00
16	Methyl Acetate	0.099	0.087	12.1	92	-0.02
17	Methylene Chloride	0.259	0.211	18.5	89	-0.02
18	Tertiary-butyl Alcohol	0.019	0.015	21.1	93	-0.02
19	Methyl tert-Butyl Ether	0.425	0.401	5.6	94	-0.02
20	Acrylonitrile	0.036	0.033	8.3	93	-0.02
21	trans-1,2-Dichloroethene	0.285	0.273	4.2	95	-0.02
22	1,1-Dichloroethane	0.456	0.421	7.7	92	-0.02
23	Chloroprene	0.277	0.256	7.6	91	-0.02
24	Vinyl Acetate	0.692	0.591	14.6	86	-0.02
25	Di-isopropyl ether	0.680	0.590	13.2	86	0.00
26	Ethyl tertiary-butyl ether	0.624	0.562	9.9	89	-0.02
27	2-Butanone	0.018	0.017	5.6	94	-0.02
28	cis-1,2 Dichloroethene	0.322	0.303	5.9	93	-0.02
29	2,2-Dichloropropane	0.390	0.372	4.6	94	-0.02
30	Methyl Acrylate	0.185	0.162	12.4	90	0.00
31	Methacrylonitrile	0.108	0.087	19.4	88	-0.02
32	Bromochloromethane	0.241	0.231	4.1	94	-0.02
33	Tetrahydrofuran	0.048	0.043	10.4	89	-0.02
34	Chloroform	0.574	0.538	6.3	93	-0.02
35	1,1,1-Trichloroethane	0.560	0.529	5.5	94	-0.02
36 S	Dibromofluoromethane (SURR)	0.758	0.702	7.4	94	-0.02
37	Cyclohexane	0.313	0.286	8.6	89	0.00
38	1-Chlorobutane	0.412	0.378	8.3	94	0.00
39	1,1-Dichloropropene	0.392	0.364	7.1	93	-0.02
40	Carbon Tetrachloride	0.614	0.570	7.2	93	-0.02
41	Benzene	0.707	0.653	7.6	92	0.00
42 S	1,2-Dichloroethane-d4 (SURR)	0.246	0.225	8.5	92	0.00

451

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4\_MH/MH0606/MH062306\M415117.D Vial: 2  
 Acq On : 23 Jun 2006 9:20 am Operator: MD  
 Sample : BPF0198-CCV1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0606010  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	#	%Dev	Area%	Dev(min)
43	1,2-Dichloroethane	0.257	0.239	7.0	92	-0.02
44	Tertiary-amyl methyl ether	0.571	0.518	9.3	90	-0.02
45	Trichloroethene	0.414	0.394	4.8	95	-0.02
46	Methyl Cyclohexane	0.400	0.376	6.0	93	-0.02
47	1,2-Dichloropropane	0.285	0.257	9.8	89	-0.02
48	Dibromomethane	0.337	0.314	6.8	92	0.00
49	1,4-Dioxane	0.003	0.002	33.3#	92	-0.02
50	Methyl Methacrylate	0.181	0.149	17.7	82	-0.02
51	Bromodichloromethane	0.587	0.551	6.1	92	0.00
52	2-Nitropropane	0.048	0.043	10.4	94	-0.02
53	2-Chloroethyl vinyl ether	0.105	0.087	17.1	84	-0.02
54	4-Methyl-2-Pentanone	0.086	0.074	14.0	90	-0.02
55	cis-1,3-Dichloropropene	0.436	0.406	6.9	91	-0.02
56	Toluene	0.545	0.511	6.2	92	-0.02
57	trans-1,3-Dichloropropene	0.363	0.337	7.2	91	-0.02
58	1,1,2-Trichloroethane	0.246	0.224	8.9	91	-0.02
59 I	Chlorobenzene-d5	1.000	1.000	0.0	93	-0.02
60 S	Toluene-d8 (SURR)	1.083	1.009	6.8	93	-0.02
61	2-Hexanone	0.174	0.143	17.8	90	0.00
62	Ethyl Methacrylate	0.380	0.337	11.3	90	-0.02
63	1,3-Dichloropropane	0.462	0.417	9.7	90	-0.02
64	Tetrachloroethene	0.490	0.473	3.5	96	-0.02
65	Dibromochloromethane	0.797	0.740	7.2	92	-0.02
66	1,2-Dibromoethane	0.607	0.559	7.9	92	-0.02
67	1-Chlorohexane	0.516	0.489	5.2	94	-0.02
68	Chlorobenzene	0.931	0.872	6.3	93	-0.02
69	1,1,1,2-Tetrachloroethane	0.543	0.501	7.7	93	-0.02
70	Ethylbenzene	1.292	1.205	6.7	92	-0.02
71	Xylene P,M	0.534	0.505	5.4	94	-0.02
72	Xylene O	0.508	0.475	6.5	93	-0.02
73	Styrene	0.868	0.819	5.6	93	-0.02
74	Bromoform	0.583	0.543	6.9	93	-0.02
75	cis-1,4-Dichloro-2-butene	0.115	0.104	9.6	87	-0.02
76 S	Bromofluorobenzene (SURR)	0.733	0.683	6.8	92	0.00
77 I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	93	-0.02
78	Isopropylbenzene	2.587	2.398	7.3	93	-0.02
79	Trans-1,4-Dichloro-2-Butene	0.155	0.141	9.0	90	-0.02
80	1,2,3-Trichloropropane	0.748	0.691	7.6	98	-0.02
81	Bromobenzene	0.910	0.843	7.4	93	-0.02
82	1,1,2,2-Tetrachloroethane	0.982	0.854	13.0	92	-0.02

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(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4\_MH/MH0606/MH062306\M415117.D Vial: 2  
 Acq On : 23 Jun 2006 9:20 am Operator: MD  
 Sample : BPF0198-CCV1 Inst : VOA MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0606010  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	n-Propylbenzene	3.314	3.126	5.7	92	-0.02
84	2-Chlorotoluene	1.625	1.452	10.6	95	0.00
85	4-Chlorotoluene	2.186	2.027	7.3	94	-0.02
86	1,3,5-Trimethylbenzene	2.128	1.974	7.2	93	-0.02
87	Pentachloroethane	2.994	2.779	7.2	93	-0.02
88	tert-Butylbenzene	2.994	2.779	7.2	93	-0.02
89	1,2,4-Trimethylbenzene	2.152	2.001	7.0	94	-0.02
90	sec-Butylbenzene	3.215	2.998	6.7	94	-0.02
91	1,3 Dichlorobenzene	1.545	1.432	7.3	93	-0.02
92	4-Isopropyltoluene	2.609	2.440	6.5	94	-0.02
93	1,4 Dichlorobenzene	1.612	1.484	7.9	93	-0.02
94	n-Butylbenzene	2.333	2.181	6.5	93	0.00
95	1,2 Dichlorobenzene	1.404	1.283	8.6	93	-0.02
96	Hexachloroethane	0.993	0.936	5.7	93	0.00
97	1,2-Dibromo-3-Chloropropane	0.174	0.161	7.5	95	-0.02
98	1,2,4-Trichlorobenzene	1.170	1.083	7.4	95	-0.02
99	Hexachlorobutadiene	0.834	0.794	4.8	96	-0.02
100	Naphthalene	1.681	1.415	15.8	93	-0.02
101	1,2,3-Trichlorobenzene	1.006	0.911	9.4	96	-0.02

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4\_MH/MH0606/MH062306\M415117.D Vial: 2  
 Acq On : 23 Jun 2006 9:20 am Operator: MD  
 Sample : BPF0198-CCV1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jun 23 12:14 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0606010  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Initial Calibration  
 DataAcq Meth : LO060606

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.23	96	3975202	25.00	ug/l	-0.02
59) Chlorobenzene-d5	11.55	117	3436446	25.00	ug/l	-0.02
77) 1,4 Dichlorobenzene-D4	15.97	152	1997600	25.00	ug/l	-0.02

System Monitoring Compounds						
36) Dibromofluoromethane (SURR)	5.15	111	2791797	23.15	ug/l	-0.02
Spiked Amount	25.000	Range	70 - 130	Recovery	=	92.60%
42) 1,2-Dichloroethane-d4 (SURR)	5.67	65	892558	22.84	ug/l	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	91.36%
60) Toluene-d8 (SURR)	8.97	98	3467672	23.29	ug/l	-0.02
Spiked Amount	25.000	Range	70 - 130	Recovery	=	93.16%
76) Bromofluorobenzene (SURR)	13.78	95	2346231	23.27	ug/l	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	93.08%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	1254582	23.68	ug/l	99
3) Chloromethane	1.34	50	565718	22.46	ug/l	99
4) Vinyl Chloride	1.40	62	657924	23.84	ug/l	99
5) Bromomethane	1.62	94	560630	22.09	ug/l	99
6) Chloroethane	1.69	64	336582	27.50	ug/l	99
7) Trichlorofluoromethane	1.89	101	2207226	23.78	ug/l	100
8) Diethyl ether	2.13	59	379696	22.69	ug/l	98
9) Acrolein	2.23	56	69199	21.09	ug/l	100
10) 1,1,2-Trichloro-1,2,2-trif	2.30	101	2186026	23.91	ug/l	96
11) Acetone	2.38	58	181283	120.10	ug/l	98
12) Iodomethane	2.44	142	2259472	24.83	ug/l	99
13) Carbon Disulfide	2.48	76	2313510	23.37	ug/l	100
14) 1,1-Dichloroethene	2.30	96	935139	23.82	ug/l	98
15) Allyl Chloride	2.63	41	906328	23.03	ug/l	99
16) Methyl Acetate	2.68	43	345942	23.05	ug/l	99
17) Methylene Chloride	2.75	84	838828	23.22	ug/l	99
18) Tertiary-butyl Alcohol	2.96	59	299394	111.50	ug/l	97
19) Methyl tert-Butyl Ether	3.08	73	1595662	23.64	ug/l	99
20) Acrylonitrile	3.03	53	129762	22.38	ug/l	97
21) trans-1,2-Dichloroethene	3.03	96	1083907	23.90	ug/l	99
22) 1,1-Dichloroethane	3.54	63	1674035	23.07	ug/l	100
23) Chloroprene	3.66	53	1019263	23.13	ug/l	99
24) Vinyl Acetate	3.66	43	2350059	21.35	ug/l	99
25) Di-isopropyl ether	3.70	45	2344343	21.68	ug/l	88
26) Ethyl tertiary-butyl ether	4.22	59	2235702	22.52	ug/l	100
27) 2-Butanone	4.46	72	329977	114.94	ug/l	92
28) cis-1,2 Dichloroethene	4.37	96	1205600	23.55	ug/l	99

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

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4\_MH/MH0606/MH062306\M415117.D Vial: 2  
 Acq On : 23 Jun 2006 9:20 am Operator: MD  
 Sample : BPF0198-CCV1 Inst : VOA MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jun 23 12:14 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0606010  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Initial Calibration  
 DataAcq Meth : LO060606

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) 2,2-Dichloropropane	4.36	77	1478635	23.84	ug/l	98
30) Methyl Acrylate	4.63	55	645912	21.94	ug/l	100
31) Methacrylonitrile	4.77	41	346811	20.26	ug/l	96
32) Bromochloromethane	4.74	128	917657	23.90	ug/l	97
33) Tetrahydrofuran	4.83	42	171117	22.24	ug/l	95
34) Chloroform	4.89	83	2138473	23.45	ug/l	99
35) 1,1,1-Trichloroethane	5.13	97	2102133	23.59	ug/l	100
37) Cyclohexane	5.21	56	1136626	22.85	ug/l	97
38) 1-Chlorobutane	5.34	56	1501545	22.91	ug/l	98
39) 1,1-Dichloropropene	5.40	75	1445724	23.19	ug/l	98
40) Carbon Tetrachloride	5.38	117	2264797	23.19	ug/l	100
41) Benzene	5.74	78	2597231	23.12	ug/l	100
43) 1,2-Dichloroethane	5.79	62	948705	23.20	ug/l	99
44) Tertiary-amyl methyl ether	6.01	73	2059201	22.67	ug/l	100
45) Trichloroethene	6.84	95	1567529	23.82	ug/l	98
46) Methyl Cyclohexane	7.13	83	1493101	23.48	ug/l	98
47) 1,2-Dichloropropane	7.22	63	1020190	22.51	ug/l	98
48) Dibromomethane	7.41	93	1246971	23.26	ug/l	94
49) 1,4-Dioxane	7.51	88	185077	453.06	ug/l	95
50) Methyl Methacrylate	7.56	41	592694	20.57	ug/l	95
51) Bromodichloromethane	7.74	83	2190527	23.49	ug/l	99
52) 2-Nitropropane	8.15	43	170427	22.51	ug/l	99
53) 2-Chloroethyl vinyl ether	8.35	63	345899	23.65	ug/l	99
54) 4-Methyl-2-Pentanone	8.88	58	1479427	107.97	ug/l	97
55) cis-1,3-Dichloropropene	8.52	75	1615693	23.33	ug/l	98
56) Toluene	9.09	92	2032362	23.46	ug/l	100
57) trans-1,3-Dichloropropene	9.55	75	1340745	23.23	ug/l	99
58) 1,1,2-Trichloroethane	9.85	83	891401	22.76	ug/l	99
61) 2-Hexanone	10.40	43	2459083	110.30	ug/l	97
62) Ethyl Methacrylate	9.82	69	1158803	22.16	ug/l	96
63) 1,3-Dichloropropane	10.13	76	1431433	22.53	ug/l	99
64) Tetrachloroethene	10.04	164	1625735	24.12	ug/l	98
65) Dibromochloromethane	10.52	129	2543685	23.23	ug/l	99
66) 1,2-Dibromoethane	10.67	107	1922048	23.03	ug/l	98
67) 1-Chlorohexane	11.68	91	1678997	23.69	ug/l	100
68) Chlorobenzene	11.61	112	2996247	23.42	ug/l	100
69) 1,1,1,2-Tetrachloroethane	11.78	131	1722486	23.06	ug/l	99
70) Ethylbenzene	11.86	91	4142377	23.32	ug/l	100
71) Xylene P,M	12.10	106	3468272	47.26	ug/l	99
72) Xylene O	12.81	106	1633372	23.40	ug/l	99
73) Styrene	12.84	104	2816064	23.60	ug/l	99
74) Bromoform	13.12	173	1866370	23.29	ug/l	99

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Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4\_MH/MH0606/MH062306\M415117.D Vial: 2  
 Acq On : 23 Jun 2006 9:20 am Operator: MD  
 Sample : BPF0198-CCV1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jun 23 12:14 19106

Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)

Title : Element ID: 0606010

Last Update : Tue Jun 06 12:26:44 2006

Response via : Initial Calibration

DataAcq Meth : LO060606

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
75) cis-1,4-Dichloro-2-butene	13.72	75	355764m	22.45	ug/l	
78) Isopropylbenzene	13.53	105	4790000	23.17	ug/l	100
79) Trans-1,4-Dichloro-2-Buten	14.25	53	281046	22.65	ug/l	97
80) 1,2,3-Trichloropropane	14.17	75	1380258	23.08	ug/l	99
81) Bromobenzene	14.00	156	1683906	23.16	ug/l	99
82) 1,1,2,2-Tetrachloroethane	14.14	83	1706703	23.18	ug/l	99
83) n-Propylbenzene	14.31	91	6244237	23.58	ug/l	99
84) 2-Chlorotoluene	14.40	91	2900497	22.34	ug/l	93
85) 4-Chlorotoluene	14.63	91	4050030	23.18	ug/l	99
86) 1,3,5-Trimethylbenzene	14.67	105	3944225	23.20	ug/l	100
87) Pentachloroethane	15.27	119	5550741	23.20	ug/l	99
88) tert-Butylbenzene	15.27	119	5550741	23.20	ug/l	99
89) 1,2,4-Trimethylbenzene	15.37	105	3998065	23.25	ug/l	100
90) sec-Butylbenzene	15.70	105	5988847	23.31	ug/l	100
91) 1,3 Dichlorobenzene	15.83	146	2860915	23.17	ug/l	100
92) 4-Isopropyltoluene	16.01	119	4873540	23.38	ug/l	100
93) 1,4 Dichlorobenzene	16.01	146	2964022	23.01	ug/l	99
94) n-Butylbenzene	16.80	91	4357476	23.38	ug/l	99
95) 1,2 Dichlorobenzene	16.70	146	2562805	22.85	ug/l	100
96) Hexachloroethane	17.17	117	1869602	23.57	ug/l	96
97) 1,2-Dibromo-3-Chloropropan	18.24	75	321225	23.07	ug/l	97
98) 1,2,4-Trichlorobenzene	20.15	180	2162546	23.13	ug/l	99
99) Hexachlorobutadiene	20.55	225	1586443	23.81	ug/l	100
100) Naphthalene	20.59	128	2827024	23.29	ug/l	100
101) 1,2,3-Trichlorobenzene	21.00	180	1819335	24.73	ug/l	98



## ANALYSIS SEQUENCE

BPF0210

Instrument: VMS4

Calibration ID: 0606010

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0210-TUNI	QC		1		6F26058		
BPF0210-CCVI	QC		2		6F26059	6F22041	
BF62614-BLK1	QC		3			6F22041	
BF62614-BS1	QC		4			6F22041	
BF62614-BSD1	QC		5			6F22041	
0606374-11	DC: x5035/8260 ppb Low Lev	E	6			6F22041	MACTEC Engineering & Consulting, In
0606374-12	DC: x5035/8260 ppb Low Lev	F	7			6F22041	MACTEC Engineering & Consulting, In
0606374-10	DC: x5035/8260 ppb Low Lev	D	8			6F22041	MACTEC Engineering & Consulting, In
0606374-09	DC: x5035/8260 ppb Low Lev	F	9			6F22041	MACTEC Engineering & Consulting, In
0606374-08	DC: x5035/8260 ppb Low Lev	F	10			6F22041	MACTEC Engineering & Consulting, In
0606374-06	DC: x5035/8260 ppb Low Lev	F	11			6F22041	MACTEC Engineering & Consulting, In
0606374-04	DC: x5035/8260 ppb Low Lev	F	12			6F22041	MACTEC Engineering & Consulting, In
0606374-02	DC: x5035/8260 ppb Low Lev	B	13			6F22041	MACTEC Engineering & Consulting, In
0606374-01	DC: x5035/8260 ppb Low Lev	F	14			6F22041	MACTEC Engineering & Consulting, In
0606373-21	DC: x5035/8260 ppb Low Lev	D	15			6F22041	MACTEC Engineering & Consulting, In
0606373-20	DC: x5035/8260 ppb Low Lev	E	16			6F22041	MACTEC Engineering & Consulting, In
0606373-19	DC: x5035/8260 ppb Low Lev	D	17			6F22041	MACTEC Engineering & Consulting, In
0606373-18	DC: x5035/8260 ppb Low Lev	D	18			6F22041	MACTEC Engineering & Consulting, In
0606383-11	DC: x5035/8260 ppb Low Lev	C	19			6F22041	MACTEC Engineering & Consulting, In
0606374-05	DC: x5035/8260 ppb Low Lev	D	20			6F22041	MACTEC Engineering & Consulting, In
BF62614-MSD1	QC		21			6F22041	
BF62614-MS1	QC		22			6F22041	

Samples Loaded By

Date

Data Processed By

Date

# ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/23/06	11	M4 16176	0606373-09	1e060606	7.2/10	no
	12	M4 21	-09		4.8/10	
	13	M4 78	-05		4.1/10	
	14	M4 19	-06		3/10	
	15	M4 30	-07		2.9/10	
	16	M4 31	TEST BLK <del>0606373-09</del>			
	17	M4 32	0606373-09		7/10	
	18	M4 33	-10		5.1/10	
	19	M4 37	-11		5/10-5B	
	20	M4 38	-12		3.7/10	
	21	M4 36	-13		5/10	
	22	M4 37	-14		7.6/10	
	23	M4 38	-15		6.8/10	
	24	M4 39	-16		7.3/10	
	25	M4 40	-17	1e060606	7.2/10	
6/23/06	1	M4 41	BF0210-JUM		6F26088	no
6/26/06	2	M4 42	BF0210-CAN	1e060606	6F26089	no

-08: Both vials broke in freezer

Run Sequence Confirmation  
 Control Number 20.0023-0601A  
 All Standards must be noted with a primary or secondary ID

Surrogate: 6F26089  
 On-column IS: 6F26091

# ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/26/06	3	M4 15143	BFB2619-BS1	LOD0606	6F26060	m
	4	M4 47	BFB2619-BS1		6F26060	
	5	M4 45	Test 61K			
	6	M4 46	BFB2619-61K1			
	7	M4 47	0606 373 -18		3.9/10	04219
	8	M4 48	-19		7.3/10	04218
	9	M4 49	-20		9.2/10	04184
	10	M4 50	-21		8.3/10	04195
	11	M4 51	0606 374 -01		7/10	04182
	12	M4 52	-02		6.4/10	04217
	13	M4 53	-03		8/10	04193
	14	M4 54	-04		6.9/10	04204
	15	M4 55	-05		6.7/10	04180
	16	M4 56	-06		7.5/10	04215
	17	M4 57	-07		4.5/10	04191
	18	M4 58	-08		6.9/10	04202
6/26/06	19	M4 59	-09	LOD0606	3.8/10	04178

Run Sequence Confirmation

Control Number 20.0023-0601A

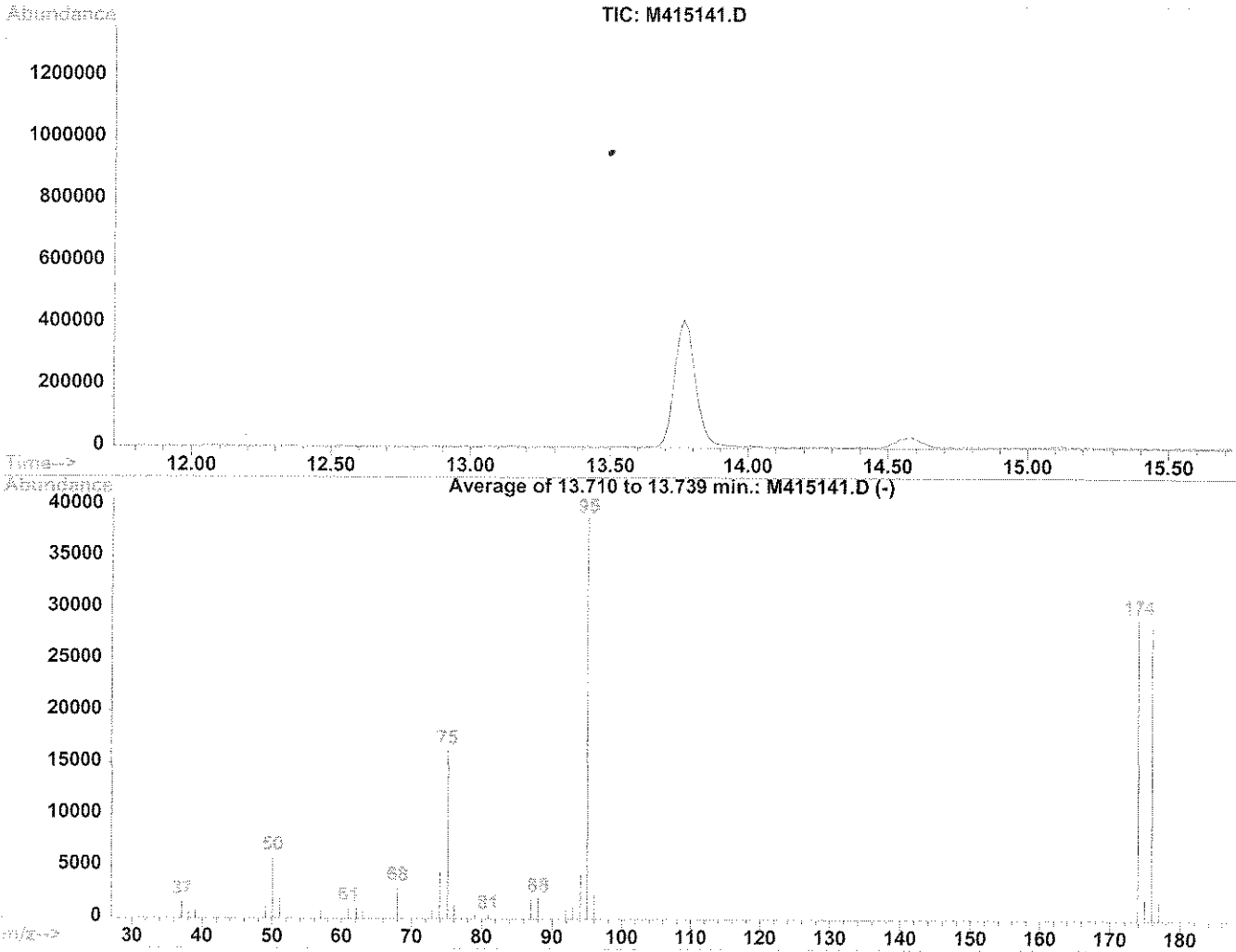
All Standards must be noted with a primary or secondary ID

Surrogate: 6F2209

On-column IS: 6F2204



Data File : Q:\VOA\MS4\_MH\MH0606\MH062606\M415141.D Vial: 1  
Acq On : 26 Jun 2006 8:13 am Operator: MD  
Sample : BPF0210-TUN1 Inst : VOA\_MS4  
Misc : Multiplr: 1.00  
MS Integration Params: rteint.p  
Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
Title : Element ID: 0606010



Spectrum Information: Average of 13.710 to 13.739 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result
50	95	15	40	15.2	5908	PASS
75	95	30	60	42.1	16311	PASS
95	95	100	100	100.0	38774	PASS
96	95	5	9	7.7	3003	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	75.1	29106	PASS
175	174	5	9	6.9	2014	PASS
176	174	95	101	97.0	28240	PASS
177	176	5	9	6.4	1801	PASS

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4\_MH\MH0606\MH062606\M415142.D Vial: 2  
 Acq On : 26 Jun 2006 8:43 am Operator: MD  
 Sample : BPF0210-CCV1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0606010  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	86	-0.03
2	Dichlorodifluoromethane	0.333	0.319	4.2	89	0.00
3	Chloromethane	0.158	0.141	10.8	86	-0.02
4	Vinyl Chloride	0.174	0.160	8.0	85	0.00
5	Bromomethane	0.160	0.147	8.1	86	0.00
6	Chloroethane	0.084	0.085	-1.2	86	0.00
7	Trichlorofluoromethane	0.584	0.566	3.1	91	-0.02
8	Diethyl ether	0.105	0.095	9.5	84	0.00
9	Acrolein	0.021	0.017	19.0	79	0.00
10	1,1,2-Trichloro-1,2,2-trifl	0.575	0.552	4.0	89	0.00
11	Acetone	0.009	0.008	11.1	82	-0.02
12	Iodomethane	0.572	0.621	-8.6	100	-0.02
13	Carbon Disulfide	0.622	0.568	8.7	85	-0.02
14	1,1-Dichloroethene	0.247	0.236	4.5	89	-0.02
15	Allyl Chloride	0.248	0.223	10.1	82	-0.02
16	Methyl Acetate	0.099	0.087	12.1	86	-0.02
17	Methylene Chloride	0.259	0.207	20.1	82	-0.02
18	Tertiary-butyl Alcohol	0.019	0.016	15.8	92	-0.02
19	Methyl tert-Butyl Ether	0.425	0.416	2.1	91	-0.03
20	Acrylonitrile	0.036	0.034	5.6	89	-0.02
21	trans-1,2-Dichloroethene	0.285	0.283	0.7	93	-0.02
22	1,1-Dichloroethane	0.456	0.424	7.0	86	-0.03
23	Chloroprene	0.277	0.260	6.1	87	-0.02
24	Vinyl Acetate	0.692	0.599	13.4	81	-0.02
25	Di-isopropyl ether	0.680	0.591	13.1	81	-0.02
26	Ethyl tertiary-butyl ether	0.624	0.567	9.1	84	-0.02
27	2-Butanone	0.018	0.016	11.1	85	-0.03
28	cis-1,2 Dichloroethene	0.322	0.306	5.0	88	-0.02
29	2,2-Dichloropropane	0.390	0.380	2.6	90	-0.02
30	Methyl Acrylate	0.185	0.166	10.3	86	-0.02
31	Methacrylonitrile	0.108	0.090	16.7	85	-0.03
32	Bromochloromethane	0.241	0.236	2.1	90	-0.03
33	Tetrahydrofuran	0.048	0.043	10.4	83	-0.03
34	Chloroform	0.574	0.552	3.8	89	-0.02
35	1,1,1-Trichloroethane	0.560	0.538	3.9	90	-0.02
36 S	Dibromofluoromethane (SURR)	0.758	0.720	5.0	90	-0.02
37	Cyclohexane	0.313	0.269	14.1	78	-0.02
38	1-Chlorobutane	0.412	0.383	7.0	89	-0.02
39	1,1-Dichloropropene	0.392	0.371	5.4	89	-0.02
40	Carbon Tetrachloride	0.614	0.588	4.2	90	-0.02
41	Benzene	0.707	0.651	7.9	86	-0.02
42 S	1,2-Dichloroethane-d4 (SURR)	0.246	0.235	4.5	91	-0.02

462

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4\_MH\MH0606\MH062606\M415142.D Vial: 2  
 Acq On : 26 Jun 2006 8:43 am Operator: MD  
 Sample : BPF0210-CCV1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0606010  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	1,2-Dichloroethane	0.257	0.249	3.1	90	-0.03
44	Tertiary-amyl methyl ether	0.571	0.527	7.7	86	-0.02
45	Trichloroethene	0.414	0.398	3.9	89	-0.03
46	Methyl Cyclohexane	0.400	0.375	6.3	87	-0.02
47	1,2-Dichloropropane	0.285	0.260	8.8	84	-0.03
48	Dibromomethane	0.337	0.322	4.5	89	-0.02
49	1,4-Dioxane	0.003	0.002	33.3#	89	-0.02
50	Methyl Methacrylate	0.181	0.163	9.9	84	-0.03
51	Bromodichloromethane	0.587	0.574	2.2	90	-0.02
52	2-Nitropropane	0.048	0.045	6.3	92	-0.02
53	2-Chloroethyl vinyl ether	0.105	0.098	6.7	88	-0.03
54	4-Methyl-2-Pentanone	0.086	0.075	12.8	85	-0.03
55	cis-1,3-Dichloropropene	0.436	0.415	4.8	87	-0.02
56	Toluene	0.545	0.516	5.3	87	-0.03
57	trans-1,3-Dichloropropene	0.363	0.350	3.6	88	-0.02
58	1,1,2-Trichloroethane	0.246	0.230	6.5	87	-0.02
59 I	Chlorobenzene-d5	1.000	1.000	0.0	87	-0.02
60 S	Toluene-d8 (SURR)	1.083	1.012	6.6	88	-0.02
61	2-Hexanone	0.174	0.145	16.7	87	-0.02
62	Ethyl Methacrylate	0.380	0.338	11.1	85	-0.02
63	1,3-Dichloropropane	0.462	0.423	8.4	86	-0.02
64	Tetrachloroethene	0.490	0.476	2.9	91	-0.03
65	Dibromochloromethane	0.797	0.765	4.0	90	-0.02
66	1,2-Dibromoethane	0.607	0.569	6.3	88	-0.02
67	1-Chlorohexane	0.516	0.485	6.0	88	-0.03
68	Chlorobenzene	0.931	0.887	4.7	89	-0.03
69	1,1,1,2-Tetrachloroethane	0.543	0.511	5.9	90	-0.02
70	Ethylbenzene	1.292	1.230	4.8	88	-0.02
71	Xylene P,M	0.534	0.506	5.2	89	-0.03
72	Xylene O	0.508	0.480	5.5	89	-0.03
73	Styrene	0.868	0.828	4.6	88	-0.02
74	Bromoform	0.583	0.573	1.7	93	-0.02
75	cis-1,4-Dichloro-2-butene	0.115	0.125	-8.7	99	-0.02
76 S	Bromofluorobenzene (SURR)	0.733	0.693	5.5	89	-0.02
77 I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	89	-0.03
78	Isopropylbenzene	2.587	2.407	7.0	89	-0.02
79	Trans-1,4-Dichloro-2-Butene	0.155	0.147	5.2	90	-0.03
80	1,2,3-Trichloropropane	0.748	0.659	11.9	89	-0.02
81	Bromobenzene	0.910	0.862	5.3	91	-0.03
82	1,1,2,2-Tetrachloroethane	0.982	0.875	10.9	90	-0.02

463

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS4\_MH\MH0606\MH062606\M415142.D Vial: 2  
 Acq On : 26 Jun 2006 8:43 am Operator: MD  
 Sample : BPF0210-CCV1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0606010  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83 n-Propylbenzene	3.314	3.026	8.7	85	-0.03
84 2-Chlorotoluene	1.625	1.594	1.9	99	-0.02
85 4-Chlorotoluene	2.186	2.017	7.7	89	-0.03
86 1,3,5-Trimethylbenzene	2.128	1.980	7.0	89	-0.02
87 Pentachloroethane	2.994	2.809	6.2	90	-0.03
88 tert-Butylbenzene	2.994	2.809	6.2	90	-0.03
89 1,2,4-Trimethylbenzene	2.152	1.999	7.1	89	-0.03
90 sec-Butylbenzene	3.215	2.986	7.1	89	-0.03
91 1,3 Dichlorobenzene	1.545	1.448	6.3	90	-0.03
92 4-Isopropyltoluene	2.609	2.459	5.7	90	-0.03
93 1,4 Dichlorobenzene	1.612	1.514	6.1	91	-0.03
94 n-Butylbenzene	2.333	2.195	5.9	89	-0.02
95 1,2 Dichlorobenzene	1.404	1.310	6.7	90	-0.02
96 Hexachloroethane	0.993	0.961	3.2	91	-0.02
97 1,2-Dibromo-3-Chloropropane	0.174	0.171	1.7	96	-0.03
98 1,2,4-Trichlorobenzene	1.170	1.124	3.9	94	-0.03
99 Hexachlorobutadiene	0.834	0.818	1.9	95	-0.02
100 Naphthalene	1.681	1.468	12.7	92	-0.02
101 1,2,3-Trichlorobenzene	1.006	0.944	6.2	95	-0.02



Data File : Q:\VOA\MS4\_MH\MH060606\MH062606\M415142.D Vial: 2  
 Acq On : 26 Jun 2006 8:43 am Operator: MD  
 Sample : BPF0210-CCV1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jun 26 11:22 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0606010  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Initial Calibration  
 DataAcq Meth : LO060606

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.22	96	3724885	25.00	ug/l	-0.03
59) Chlorobenzene-d5	11.55	117	3246204	25.00	ug/l	-0.02
77) 1,4 Dichlorobenzene-D4	15.95	152	1904399	25.00	ug/l	-0.03

## System Monitoring Compounds

36) Dibromofluoromethane(SURR)	5.15	111	2683668	23.75	ug/l	-0.02
Spiked Amount	25.000	Range	70 - 130	Recovery	=	95.00%
42) 1,2-Dichloroethane-d4(SURR)	5.66	65	875215	23.90	ug/l	-0.02
Spiked Amount	25.000	Range	70 - 130	Recovery	=	95.60%
60) Toluene-d8 (SURR)	8.97	98	3286537	23.37	ug/l	-0.02
Spiked Amount	25.000	Range	70 - 130	Recovery	=	93.48%
76) Bromofluorobenzene (SURR)	13.77	95	2250348	23.63	ug/l	-0.02
Spiked Amount	25.000	Range	70 - 130	Recovery	=	94.52%

## Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.21	85	1187756	23.92	ug/l	100
3) Chloromethane	1.34	50	525184	22.25	ug/l	99
4) Vinyl Chloride	1.40	62	594924	23.01	ug/l	100
5) Bromomethane	1.62	94	547437	23.02	ug/l	100
6) Chloroethane	1.70	64	316193	27.58	ug/l	97
7) Trichlorofluoromethane	1.88	101	2109373	24.25	ug/l	100
8) Diethyl ether	2.13	59	352836	22.51	ug/l	98
9) Acrolein	2.23	56	64000	20.81	ug/l	96
10) 1,1,2-Trichloro-1,2,2-trif	2.31	101	2057895	24.02	ug/l	94
11) Acetone	2.37	58	148625	105.08	ug/l	87
12) Iodomethane	2.43	142	2314518	27.14	ug/l	100
13) Carbon Disulfide	2.47	76	2116787	22.82	ug/l	100
14) 1,1-Dichloroethene	2.29	96	879994	23.92	ug/l	98
15) Allyl Chloride	2.62	41	829951	22.50	ug/l	96
16) Methyl Acetate	2.68	43	322761	22.95	ug/l	99
17) Methylene Chloride	2.75	84	770885	22.75	ug/l	98
18) Tertiary-butyl Alcohol	2.96	59	293319	116.68	ug/l	99
19) Methyl tert-Butyl Ether	3.07	73	1550656	24.51	ug/l	98
20) Acrylonitrile	3.04	53	124999	23.01	ug/l	97
21) trans-1,2-Dichloroethene	3.04	96	1054346	24.81	ug/l	99
22) 1,1-Dichloroethane	3.53	63	1579303	23.23	ug/l	99
23) Chloroprene	3.66	53	969575	23.48	ug/l	99
24) Vinyl Acetate	3.66	43	2229895	21.62	ug/l	98
25) Di-isopropyl ether	3.69	45	2199992	21.71	ug/l	98
26) Ethyl tertiary-butyl ether	4.23	59	2111904	22.70	ug/l	99
27) 2-Butanone	4.45	72	299149	111.20	ug/l	94
28) cis-1,2 Dichloroethene	4.38	96	1141106	23.79	ug/l	96

465

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

Data File : Q:\VOA\MS4\_MH\MH0606\MH062606\M415142.D

Vial: 2

Acq On : 26 Jun 2006 8:43 am

Operator: MD

Sample : BPF0210-CCV1

Inst : VOA\_MS4

Misc :

Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jun 26 11:22 19106

Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)

Title : Element ID: 0606010

Last Update : Tue Jun 06 12:26:44 2006

Response via : Initial Calibration

DataAcq Meth : LO060606

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) 2,2-Dichloropropane	4.36	77	1415049	24.34	ug/l	98
30) Methyl Acrylate	4.61	55	617064	22.37	ug/l	100
31) Methacrylonitrile	4.76	41	335857	20.94	ug/l	97
32) Bromochloromethane	4.73	128	880592	24.47	ug/l	99
33) Tetrahydrofuran	4.82	42	160601	22.28	ug/l	97
34) Chloroform	4.90	83	2055304	24.05	ug/l	100
35) 1,1,1-Trichloroethane	5.14	97	2003461	23.99	ug/l	99
37) Cyclohexane	5.19	56	1002319	21.50	ug/l	97
38) 1-Chlorobutane	5.33	56	1425717	23.22	ug/l	99
39) 1,1-Dichloropropene	5.40	75	1383618	23.69	ug/l	99
40) Carbon Tetrachloride	5.39	117	2191695	23.95	ug/l	100
41) Benzene	5.73	78	2426014	23.04	ug/l	100
43) 1,2-Dichloroethane	5.78	62	926252	24.17	ug/l	99
44) Tertiary-amyl methyl ether	6.01	73	1963108	23.07	ug/l	99
45) Trichloroethene	6.83	95	1481523	24.03	ug/l	98
46) Methyl Cyclohexane	7.13	83	1396289	23.43	ug/l	98
47) 1,2-Dichloropropane	7.20	63	967359	22.77	ug/l	97
48) Dibromomethane	7.40	93	1199714	23.89	ug/l	97
49) 1,4-Dioxane	7.52	88	177295	463.14	ug/l	96
50) Methyl Methacrylate	7.55	41	607448	22.50	ug/l	97
51) Bromodichloromethane	7.72	83	2138063	24.47	ug/l	100
52) 2-Nitropropane	8.16	43	166528	23.47	ug/l	100
53) 2-Chloroethyl vinyl ether	8.33	63	363256	26.96	ug/l	97
54) 4-Methyl-2-Pentanone	8.87	58	1393782	108.55	ug/l	99
55) cis-1,3-Dichloropropene	8.53	75	1547472	23.84	ug/l	98
56) Toluene	9.08	92	1923294	23.69	ug/l	99
57) trans-1,3-Dichloropropene	9.56	75	1302551	24.09	ug/l	99
58) 1,1,2-Trichloroethane	9.85	83	857995	23.38	ug/l	98
61) 2-Hexanone	10.39	43	2357361	111.94	ug/l	98
62) Ethyl Methacrylate	9.82	69	1095680	22.18	ug/l	93
63) 1,3-Dichloropropane	10.14	76	1372300	22.86	ug/l	99
64) Tetrachloroethene	10.03	164	1544602	24.25	ug/l	98
65) Dibromochloromethane	10.52	129	2484754	24.02	ug/l	100
66) 1,2-Dibromoethane	10.67	107	1846828	23.42	ug/l	100
67) 1-Chlorohexane	11.67	91	1573932	23.51	ug/l	100
68) Chlorobenzene	11.59	112	2880862	23.84	ug/l	100
69) 1,1,1,2-Tetrachloroethane	11.79	131	1657676	23.49	ug/l	99
70) Ethylbenzene	11.86	91	3994200	23.81	ug/l	100
71) Xylene P,M	12.09	106	3281999	47.34	ug/l	98
72) Xylene O	12.80	106	1556805	23.61	ug/l	98
73) Styrene	12.84	104	2686485	23.83	ug/l	99
74) Bromoform	13.13	173	1858901	24.56	ug/l	94

466

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

Data File : Q:\VOA\MS4\_MH\MH0606\MH062606\M415142.D Vial: 2  
 Acq On : 26 Jun 2006 8:43 am Operator: MD  
 Sample : BPF0210-CCV1 Inst : VOA MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jun 26 11:22 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0606010  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Initial Calibration  
 DataAcq Meth : LO060606

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
75) cis-1,4-Dichloro-2-butene	13.72	75	406649m	27.17	ug/l	
78) Isopropylbenzene	13.53	105	4583414	23.26	ug/l	100
79) Trans-1,4-Dichloro-2-Buten	14.24	53	280509	23.71	ug/l	98
80) 1,2,3-Trichloropropane	14.17	75	1254514	22.00	ug/l	99
81) Bromobenzene	13.99	156	1641976	23.69	ug/l	98
82) 1,1,2,2-Tetrachloroethane	14.14	83	1666862	23.74	ug/l	100
83) n-Propylbenzene	14.30	91	5761878	22.83	ug/l	99
84) 2-Chlorotoluene	14.39	91	3036481m	24.53	ug/l	
85) 4-Chlorotoluene	14.62	91	3840741	23.06	ug/l	100
86) 1,3,5-Trimethylbenzene	14.67	105	3770596	23.26	ug/l	99
87) Pentachloroethane	15.25	119	5349460	23.46	ug/l	97
88) tert-Butylbenzene	15.25	119	5349460	23.46	ug/l	99
89) 1,2,4-Trimethylbenzene	15.36	105	3806935	23.23	ug/l	99
90) sec-Butylbenzene	15.69	105	5687204	23.22	ug/l	100
91) 1,3 Dichlorobenzene	15.82	146	2758106	23.43	ug/l	99
92) 4-Isopropyltoluene	16.00	119	4682509	23.56	ug/l	99
93) 1,4 Dichlorobenzene	16.00	146	2883381	23.48	ug/l	99
94) n-Butylbenzene	16.79	91	4180639	23.53	ug/l	99
95) 1,2 Dichlorobenzene	16.70	146	2494754	23.33	ug/l	98
96) Hexachloroethane	17.16	117	1830645	24.21	ug/l	97
97) 1,2-Dibromo-3-Chloropropan	18.23	75	325651	24.53	ug/l	95
98) 1,2,4-Trichlorobenzene	20.14	180	2140372	24.01	ug/l	99
99) Hexachlorobutadiene	20.55	225	1558325	24.53	ug/l	100
100) Naphthalene	20.60	128	2795798	24.17	ug/l	100
101) 1,2,3-Trichlorobenzene	21.00	180	1798192	25.64	ug/l	98

## ANALYSIS SEQUENCE

BPF0219

Instrument: VMS4

Calibration ID: 0606010

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0219-TUN1	QC		1		6F27044		
BPF0219-CCV1	QC		2		6F27045	6F22041	
BF62718-BLK1	QC		3			6F22041	
BF62718-BS1	QC		4			6F22041	
BF62718-BSD1	QC		5			6F22041	
0606383-14	DC: x5035/8260 ppb Low Lev	E	6			6F22041	MACTEC Engineering & Consulting, Inc
0606383-13	DC: x5035/8260 ppb Low Lev	E	7			6F22041	MACTEC Engineering & Consulting, Inc
0606383-12	DC: x5035/8260 ppb Low Lev	E	8			6F22041	MACTEC Engineering & Consulting, Inc
0606383-08	DC: x5035/8260 ppb Low Lev	D	9			6F22041	MACTEC Engineering & Consulting, Inc
0606374-15	DC: x5035/8260 ppb Low Lev	D	10			6F22041	MACTEC Engineering & Consulting, Inc
0606374-14	DC: x5035/8260 ppb Low Lev	D	11			6F22041	MACTEC Engineering & Consulting, Inc
0606374-07	DC: x5035/8260 ppb Low Lev	E	12			6F22041	MACTEC Engineering & Consulting, Inc
0606374-03	DC: x5035/8260 ppb Low Lev	E	13			6F22041	MACTEC Engineering & Consulting, Inc
0606373-07	DC: x5035/8260 ppb Low Lev	F	14			6F22041	MACTEC Engineering & Consulting, Inc
BF62718-MS1	QC		15			6F22041	
BF62718-MSD1	QC		16			6F22041	

# ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/26/06	37	M415177	0606383-01	Loopadd	7.9/10	P3179
	38	M4	-02		4.7/10	P3529
	39	M4	-03		6.6/10	P3180
	40	M4	-04		3.5/10	P3922
	41	M4	-05		6.3/10	P3189
	42	M4	-06		6.9/10	P3910
	43	M4	-07		5.8/10	P4319
	44	M4	-08		5.6/10	P4330
	45	M4	-10		4.5/10	P4339
	46	M4	-12		4.3/10	P4337
	47	M4	-13		4/10	P4341
	48	M4	-14		3.3/10	P3917
	49	M4	AF62615- PMS1		3.8/10	P4326
	50	M4	BF62615- PMS1	Loopadd	4.2/10	P4327
	1	M4	BF0229- Tm1			P4327
	2	M4	BF0229- CCN			P4327
	3	M4	BF6278- B51	Loopadd		P4327

**Run Sequence Confirmation**

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: 6F22049

On-column IS: 6F22041



# ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/27/06	17	M415207	0606379-19	Lea0606	7.7/10	P9186
	18	M4	-15		7.7/10	P9205
	19	M4	0606383-08		4.6/10	P9332
6/27/06	20	M4	0606383-08	Lea0606	2.8/10	P9176
6/28/06	1	M4	0606383-08	Lea0606	2.8/10	
	2	M4	0606383-08	Lea0606	2.8/10	
	3	M4	0606383-08	Lea0606	2.8/10	
	4	M4	0606383-08	Lea0606	2.8/10	
	5	M4	0606383-08	Lea0606	2.8/10	
	6	M4	0606383-08	Lea0606	2.8/10	
	7	M4	0606383-08	Lea0606	2.8/10	
	8	M4	0606383-08	Lea0606	2.8/10	
	9	M4	0606383-08	Lea0606	2.8/10	
	10	M4	0606383-08	Lea0606	2.8/10	
	11	M4	0606383-08	Lea0606	2.8/10	
6/28/06	12	M4	0606383-08	Lea0606	2.8/10	

**Run Sequence Confirmation**

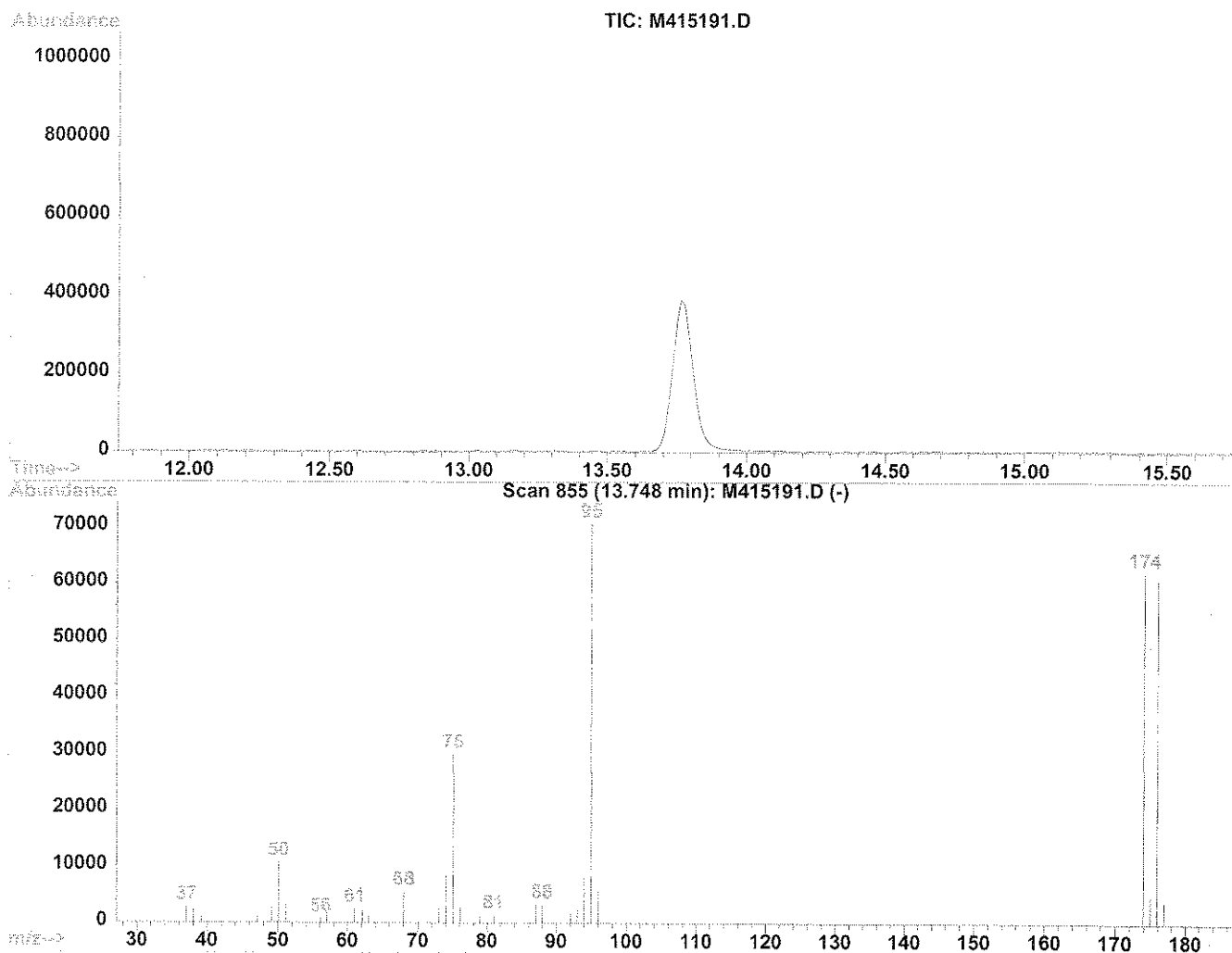
Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: 6F22099

On-column IS: 6F22099

Data File : Q:/VOA/MS4 MH/MH0606/MH062706\M415191.D Vial: 1  
 Acq On : 27 Jun 2006 8:18 am Operator: MD  
 Sample : BPF0219-TUN1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0606010



## Spectrum Information: Scan 855

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.1	10690	PASS
75	95	30	60	42.2	29856	PASS
95	95	100	100	100.0	70716	PASS
96	95	5	9	8.2	5810	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	87.9	62136	PASS
175	174	5	9	7.7	4802	PASS
176	174	95	101	97.6	60656	PASS
177	176	5	9	6.4	3867	PASS

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Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4\_MH/MH0606/MH062706\M415192.D Vial: 2  
 Acq On : 27 Jun 2006 8:47 am Operator: MD  
 Sample : BPF0219-CCV1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0606010  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	86	-0.03
2	Dichlorodifluoromethane	0.333	0.310	6.9	86	0.00
3	Chloromethane	0.158	0.137	13.3	83	-0.03
4	Vinyl Chloride	0.174	0.155	10.9	82	0.00
5	Bromomethane	0.160	0.143	10.6	83	0.00
6	Chloroethane	0.084	0.083	1.2	84	0.00
7	Trichlorofluoromethane	0.584	0.543	7.0	86	-0.02
8	Diethyl ether	0.105	0.089	15.2	79	0.00
9	Acrolein	0.021	0.016	23.8	74	-0.01
10	1,1,2-Trichloro-1,2,2-trifl	0.575	0.528	8.2	84	0.00
11	Acetone	0.009	0.007	22.2	76	-0.02
12	Iodomethane	0.572	0.575	-0.5	92	-0.02
13	Carbon Disulfide	0.622	0.549	11.7	82	-0.02
14	1,1-Dichloroethene	0.247	0.225	8.9	84	-0.02
15	Allyl Chloride	0.248	0.214	13.7	79	-0.02
16	Methyl Acetate	0.099	0.081	18.2	79	-0.03
17	Methylene Chloride	0.259	0.198	23.6	78	-0.01
18	Tertiary-butyl Alcohol	0.019	0.015	21.1	89	-0.03
19	Methyl tert-Butyl Ether	0.425	0.407	4.2	89	-0.03
20	Acrylonitrile	0.036	0.034	5.6	90	-0.03
21	trans-1,2-Dichloroethene	0.285	0.288	-1.1	93	-0.03
22	1,1-Dichloroethane	0.456	0.407	10.7	82	-0.03
23	Chloroprene	0.277	0.253	8.7	84	-0.03
24	Vinyl Acetate	0.692	0.566	18.2	76	-0.03
25	Di-isopropyl ether	0.680	0.566	16.8	77	-0.02
26	Ethyl tertiary-butyl ether	0.624	0.540	13.5	80	-0.03
27	2-Butanone	0.018	0.015	16.7	78	-0.03
28	cis-1,2 Dichloroethene	0.322	0.292	9.3	83	-0.03
29	2,2-Dichloropropane	0.390	0.367	5.9	86	-0.03
30	Methyl Acrylate	0.185	0.152	17.8	78	-0.03
31	Methacrylonitrile	0.108	0.083	23.1	78	-0.03
32	Bromochloromethane	0.241	0.224	7.1	85	-0.03
33	Tetrahydrofuran	0.048	0.039	18.8	75	-0.04
34	Chloroform	0.574	0.528	8.0	85	-0.03
35	1,1,1-Trichloroethane	0.560	0.518	7.5	86	-0.03
36 S	Dibromofluoromethane(SURR)	0.758	0.695	8.3	86	-0.03
37	Cyclohexane	0.313	0.267	14.7	77	-0.02
38	1-Chlorobutane	0.412	0.365	11.4	84	-0.02
39	1,1-Dichloropropene	0.392	0.358	8.7	85	-0.02
40	Carbon Tetrachloride	0.614	0.558	9.1	85	-0.03
41	Benzene	0.707	0.622	12.0	81	-0.02
42 S	1,2-Dichloroethane-d4(SURR)	0.246	0.227	7.7	87	-0.02

473

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4\_MH/MH0606/MH062706\M415192.D Vial: 2  
 Acq On : 27 Jun 2006 8:47 am Operator: MD  
 Sample : BPF0219-CCV1 Inst : VOA MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0606010  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	1,2-Dichloroethane	0.257	0.238	7.4	85	-0.03
44	Tertiary-amyl methyl ether	0.571	0.500	12.4	81	-0.03
45	Trichloroethene	0.414	0.379	8.5	85	-0.03
46	Methyl Cyclohexane	0.400	0.361	9.8	83	-0.02
47	1,2-Dichloropropane	0.285	0.248	13.0	80	-0.03
48	Dibromomethane	0.337	0.305	9.5	84	-0.02
49	1,4-Dioxane	0.003	0.002	33.3#	76	-0.03
50	Methyl Methacrylate	0.181	0.147	18.8	75	-0.03
51	Bromodichloromethane	0.587	0.545	7.2	85	-0.02
52	2-Nitropropane	0.048	0.042	12.5	85	-0.03
53	2-Chloroethyl vinyl ether	0.105	0.084	20.0	75	-0.03
54	4-Methyl-2-Pentanone	0.086	0.069	19.8	77	-0.03
55	cis-1,3-Dichloropropene	0.436	0.394	9.6	82	-0.03
56	Toluene	0.545	0.494	9.4	83	-0.03
57	trans-1,3-Dichloropropene	0.363	0.334	8.0	84	-0.03
58	1,1,2-Trichloroethane	0.246	0.217	11.8	82	-0.03
59 I	Chlorobenzene-d5	1.000	1.000	0.0	86	-0.02
60 S	Toluene-d8 (SURR)	1.083	0.979	9.6	84	-0.02
61	2-Hexanone	0.174	0.134	23.0	78	-0.01
62	Ethyl Methacrylate	0.380	0.322	15.3	80	-0.03
63	1,3-Dichloropropane	0.462	0.403	12.8	81	-0.03
64	Tetrachloroethene	0.490	0.462	5.7	87	-0.03
65	Dibromochloromethane	0.797	0.726	8.9	84	-0.03
66	1,2-Dibromoethane	0.607	0.540	11.0	83	-0.03
67	1-Chlorohexane	0.516	0.476	7.8	86	-0.03
68	Chlorobenzene	0.931	0.863	7.3	85	-0.03
69	1,1,1,2-Tetrachloroethane	0.543	0.497	8.5	86	-0.02
70	Ethylbenzene	1.292	1.183	8.4	84	-0.03
71	Xylene P,M	0.534	0.492	7.9	85	-0.03
72	Xylene O	0.508	0.462	9.1	84	-0.03
73	Styrene	0.868	0.795	8.4	84	-0.02
74	Bromoform	0.583	0.539	7.5	86	-0.03
75	cis-1,4-Dichloro-2-butene	0.115	0.098	14.8	76	-0.03
76 S	Bromofluorobenzene (SURR)	0.733	0.671	8.5	84	-0.02
77 I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	88	-0.03
78	Isopropylbenzene	2.587	2.306	10.9	85	-0.03
79	Trans-1,4-Dichloro-2-Butene	0.155	0.136	12.3	82	-0.03
80	1,2,3-Trichloropropane	0.748	0.607	18.9	82	-0.03
81	Bromobenzene	0.910	0.826	9.2	86	-0.03
82	1,1,2,2-Tetrachloroethane	0.982	0.813	17.2	83	-0.02

474

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4\_MH/MH0606/MH062706\M415192.D Vial: 2  
 Acq On : 27 Jun 2006 8:47 am Operator: MD  
 Sample : BPF0219-CCV1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0606010  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	n-Propylbenzene	3.314	2.992	9.7	83	-0.03
84	2-Chlorotoluene	1.625	1.458	10.3	90	-0.02
85	4-Chlorotoluene	2.186	1.940	11.3	85	-0.03
86	1,3,5-Trimethylbenzene	2.128	1.895	10.9	85	-0.02
87	Pentachloroethane	2.994	2.694	10.0	85	-0.03
88	tert-Butylbenzene	2.994	2.694	10.0	85	-0.03
89	1,2,4-Trimethylbenzene	2.152	1.911	11.2	85	-0.03
90	sec-Butylbenzene	3.215	2.884	10.3	85	-0.03
91	1,3 Dichlorobenzene	1.545	1.398	9.5	86	-0.03
92	4-Isopropyltoluene	2.609	2.366	9.3	86	-0.03
93	1,4 Dichlorobenzene	1.612	1.448	10.2	86	-0.03
94	n-Butylbenzene	2.333	2.109	9.6	85	-0.02
95	1,2 Dichlorobenzene	1.404	1.253	10.8	86	-0.03
96	Hexachloroethane	0.993	0.910	8.4	86	-0.02
97	1,2-Dibromo-3-Chloropropane	0.174	0.154	11.5	86	-0.03
98	1,2,4-Trichlorobenzene	1.170	1.065	9.0	88	-0.03
99	Hexachlorobutadiene	0.834	0.792	5.0	91	-0.03
100	Naphthalene	1.681	1.314	21.8	82	-0.03
101	1,2,3-Trichlorobenzene	1.006	0.888	11.7	89	-0.03

475

Data File : Q:/VOA/MS4\_MH/MH0606/MH062706\M415192.D Vial: 2  
 Acq On : 27 Jun 2006 8:47 am Operator: MD  
 Sample : BPF0219-CCV1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jun 27 11:38 19106

Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)

Title : Element ID: 0606010

Last Update : Tue Jun 06 12:26:44 2006

Response via : Initial Calibration

DataAcq Meth : LO060606

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.22	96	3702641	25.00	ug/l	-0.03
59) Chlorobenzene-d5	11.55	117	3194712	25.00	ug/l	-0.02
77) 1,4 Dichlorobenzene-D4	15.96	152	1891145	25.00	ug/l	-0.03

System Monitoring Compounds

36) Dibromofluoromethane (SURR)	5.14	111	2572157	22.90	ug/l	-0.03
Spiked Amount	25.000	Range 70 - 130	Recovery	=	91.60%	
42) 1,2-Dichloroethane-d4 (SURR)	5.66	65	841512	23.11	ug/l	-0.02
Spiked Amount	25.000	Range 70 - 130	Recovery	=	92.44%	
60) Toluene-d8 (SURR)	8.98	98	3127411	22.60	ug/l	-0.02
Spiked Amount	25.000	Range 70 - 130	Recovery	=	90.40%	
76) Bromofluorobenzene (SURR)	13.77	95	2143409	22.87	ug/l	-0.02
Spiked Amount	25.000	Range 70 - 130	Recovery	=	91.48%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	1146259	23.23	ug/l	99
3) Chloromethane	1.33	50	509044	21.70	ug/l	100
4) Vinyl Chloride	1.40	62	572819	22.29	ug/l	99
5) Bromomethane	1.63	94	528209	22.35	ug/l	100
6) Chloroethane	1.70	64	307172	26.83	ug/l	98
7) Trichlorofluoromethane	1.88	101	2010493	23.25	ug/l	100
8) Diethyl ether	2.13	59	331364	21.26	ug/l	96
9) Acrolein	2.22	56	59252	19.38	ug/l	98
10) 1,1,2-Trichloro-1,2,2-trif	2.31	101	1953848	22.94	ug/l	92
11) Acetone	2.37	58	138670	98.63	ug/l	97
12) Iodomethane	2.43	142	2127507	25.10	ug/l	99
13) Carbon Disulfide	2.47	76	2034306	22.07	ug/l	100
14) 1,1-Dichloroethene	2.29	96	832622	22.77	ug/l	99
15) Allyl Chloride	2.62	41	792467	21.62	ug/l	95
16) Methyl Acetate	2.67	43	299449	21.40	ug/l	99
17) Methylene Chloride	2.76	84	734518	21.75	ug/l	98
18) Tertiary-butyl Alcohol	2.95	59	285259	114.10	ug/l	96
19) Methyl tert-Butyl Ether	3.07	73	1507724	23.98	ug/l	98
20) Acrylonitrile	3.02	53	126098	23.35	ug/l	97
21) trans-1,2-Dichloroethene	3.02	96	1065020	25.22	ug/l	98
22) 1,1-Dichloroethane	3.53	63	1505366	22.27	ug/l	100
23) Chloroprene	3.65	53	935774	22.80	ug/l	98
24) Vinyl Acetate	3.65	43	2095870	20.44	ug/l	98
25) Di-isopropyl ether	3.69	45	2096990	20.82	ug/l	88
26) Ethyl tertiary-butyl ether	4.21	59	1998855	21.61	ug/l	99
27) 2-Butanone	4.45	72	272881	102.05	ug/l	92
28) cis-1,2 Dichloroethene	4.36	96	1082407	22.70	ug/l	100

476

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

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4\_MH/MH0606/MH062706\M415192.D Vial: 2  
 Acq On : 27 Jun 2006 8:47 am Operator: MD  
 Sample : BPF0219-CCV1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jun 27 11:38 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0606010  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Initial Calibration  
 DataAcq Meth : LO060606

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
29) 2,2-Dichloropropane	4.35	77	1357488	23.49	ug/l	98
30) Methyl Acrylate	4.60	55	561279	20.47	ug/l	100
31) Methacrylonitrile	4.77	41	308794	19.37	ug/l	97
32) Bromochloromethane	4.74	128	827870	23.15	ug/l	96
33) Tetrahydrofuran	4.81	42	145209	20.27	ug/l	96
34) Chloroform	4.88	83	1953551	23.00	ug/l	100
35) 1,1,1-Trichloroethane	5.12	97	1916470	23.09	ug/l	99
37) Cyclohexane	5.20	56	988932	21.34	ug/l	96
38) 1-Chlorobutane	5.33	56	1353232	22.17	ug/l	100
39) 1,1-Dichloropropene	5.41	75	1325676	22.83	ug/l	98
40) Carbon Tetrachloride	5.38	117	2064546	22.70	ug/l	99
41) Benzene	5.73	78	2301342	21.99	ug/l	100
43) 1,2-Dichloroethane	5.78	62	882518	23.17	ug/l	98
44) Tertiary-amyl methyl ether	6.00	73	1850314	21.87	ug/l	99
45) Trichloroethene	6.83	95	1403847	22.91	ug/l	99
46) Methyl Cyclohexane	7.13	83	1337870	22.58	ug/l	97
47) 1,2-Dichloropropane	7.21	63	917060	21.72	ug/l	98
48) Dibromomethane	7.40	93	1130190	22.64	ug/l	94
49) 1,4-Dioxane	7.50	88	152973	402.23	ug/l	97
50) Methyl Methacrylate	7.55	41	542923	20.23	ug/l	96
51) Bromodichloromethane	7.73	83	2016099	23.21	ug/l	99
52) 2-Nitropropane	8.14	43	153798	21.81	ug/l	100
53) 2-Chloroethyl vinyl ether	8.34	63	312342	22.81	ug/l	97
54) 4-Methyl-2-Pentanone	8.87	58	1270023	99.51	ug/l	98
55) cis-1,3-Dichloropropene	8.52	75	1460092	22.63	ug/l	97
56) Toluene	9.08	92	1829079	22.67	ug/l	99
57) trans-1,3-Dichloropropene	9.54	75	1236403	23.00	ug/l	99
58) 1,1,2-Trichloroethane	9.84	83	803934	22.03	ug/l	99
61) 2-Hexanone	10.39	43	2132812	102.88	ug/l	97
62) Ethyl Methacrylate	9.81	69	1029677	21.18	ug/l	96
63) 1,3-Dichloropropane	10.12	76	1285991	21.77	ug/l	99
64) Tetrachloroethene	10.03	164	1475604	23.54	ug/l	98
65) Dibromochloromethane	10.51	129	2319498	22.78	ug/l	100
66) 1,2-Dibromoethane	10.66	107	1724096	22.22	ug/l	99
67) 1-Chlorohexane	11.67	91	1522101	23.10	ug/l	100
68) Chlorobenzene	11.60	112	2755757	23.17	ug/l	99
69) 1,1,1,2-Tetrachloroethane	11.79	131	1588695	22.88	ug/l	98
70) Ethylbenzene	11.85	91	3779426	22.89	ug/l	100
71) Xylene P,M	12.09	106	3141439	46.04	ug/l	99
72) Xylene O	12.80	106	1475619	22.74	ug/l	100
73) Styrene	12.85	104	2540273	22.89	ug/l	99
74) Bromoform	13.11	173	1722934	23.13	ug/l	95

477

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

Data File : Q:/VOA/MS4\_MH/MH0606/MH062706\M415192.D Vial: 2  
 Acq On : 27 Jun 2006 8:47 am Operator: MD  
 Sample : BPF0219-CCV1 Inst : VOA\_MS4  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jun 27 11:38 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)  
 Title : Element ID: 0606010  
 Last Update : Tue Jun 06 12:26:44 2006  
 Response via : Initial Calibration  
 DataAcq Meth : LO060606

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
75) cis-1,4-Dichloro-2-butene	13.71	75	311548m	21.15	ug/l	
78) Isopropylbenzene	13.52	105	4361636	22.29	ug/l	99
79) Trans-1,4-Dichloro-2-Buten	14.25	53	256396	21.82	ug/l	97
80) 1,2,3-Trichloropropane	14.16	75	1147773	20.27	ug/l	100
81) Bromobenzene	13.99	156	1561867	22.69	ug/l	99
82) 1,1,2,2-Tetrachloroethane	14.14	83	1537065	22.06	ug/l	99
83) n-Propylbenzene	14.30	91	5657705	22.57	ug/l	99
84) 2-Chlorotoluene	14.39	91	2757025m	22.43	ug/l	
85) 4-Chlorotoluene	14.62	91	3668331	22.18	ug/l	99
86) 1,3,5-Trimethylbenzene	14.68	105	3583096	22.26	ug/l	99
87) Pentachloroethane	15.26	119	5095032	22.50	ug/l	99
88) tert-Butylbenzene	15.26	119	5095032	22.50	ug/l	100
89) 1,2,4-Trimethylbenzene	15.36	105	3614526	22.21	ug/l	100
90) sec-Butylbenzene	15.69	105	5454361	22.43	ug/l	100
91) 1,3 Dichlorobenzene	15.82	146	2644621	22.62	ug/l	99
92) 4-Isopropyltoluene	16.00	119	4473997	22.67	ug/l	100
93) 1,4 Dichlorobenzene	16.00	146	2739000	22.46	ug/l	99
94) n-Butylbenzene	16.79	91	3988973	22.61	ug/l	98
95) 1,2 Dichlorobenzene	16.69	146	2369785	22.32	ug/l	99
96) Hexachloroethane	17.16	117	1721849	22.93	ug/l	96
97) 1,2-Dibromo-3-Chloropropan	18.23	75	291377	22.11	ug/l	96
98) 1,2,4-Trichlorobenzene	20.14	180	2014674	22.76	ug/l	99
99) Hexachlorobutadiene	20.54	225	1497206	23.73	ug/l	100
100) Naphthalene	20.58	128	2485245	21.62	ug/l	100
101) 1,2,3-Trichlorobenzene	20.99	180	1679912	24.12	ug/l	100

# Volatile Organics Data Package

*Me OH*

# Volatile Organics Sample Data



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3101  
Date Sampled: 06/21/06 10:20  
Percent Solids: 24  
Initial Volume: 7.6  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-01  
Sample Matrix: Soil  
Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	1140	1	06/28/06
1,1,1-Trichloroethane	ND	ug/Kg dry	570	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	570	1	06/28/06
1,1,2-Trichloroethane	ND	ug/Kg dry	570	1	06/28/06
<b>1,1-Dichloroethane</b>	<b>1920</b>	ug/Kg dry	570	1	06/28/06
1,1-Dichloroethene	ND	ug/Kg dry	570	1	06/28/06
1,1-Dichloropropene	ND	ug/Kg dry	570	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	570	1	06/28/06
1,2,3-Trichloropropane	ND	ug/Kg dry	570	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	570	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	570	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	2850	1	06/28/06
1,2-Dibromoethane	ND	ug/Kg dry	570	1	06/28/06
1,2-Dichlorobenzene	ND	ug/Kg dry	570	1	06/28/06
1,2-Dichloroethane	ND	ug/Kg dry	570	1	06/28/06
1,2-Dichloropropane	ND	ug/Kg dry	570	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	570	1	06/28/06
1,3-Dichlorobenzene	ND	ug/Kg dry	570	1	06/28/06
1,3-Dichloropropane	ND	ug/Kg dry	570	1	06/28/06
1,4-Dichlorobenzene	ND	ug/Kg dry	570	1	06/28/06
1,4-Dioxane - Screen	ND	ug/Kg dry	57000	1	06/28/06
1-Chlorohexane	ND	ug/Kg dry	570	1	06/28/06
2,2-Dichloropropane	ND	ug/Kg dry	1140	1	06/28/06
2-Butanone	ND	ug/Kg dry	14200	1	06/28/06
2-Chlorotoluene	ND	ug/Kg dry	570	1	06/28/06
2-Hexanone	ND	ug/Kg dry	5700	1	06/28/06
4-Chlorotoluene	ND	ug/Kg dry	570	1	06/28/06
4-Isopropyltoluene	ND	ug/Kg dry	570	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	5700	1	06/28/06
Acetone	ND	ug/Kg dry	14200	1	06/28/06
Benzene	ND	ug/Kg dry	570	1	06/28/06
Bromobenzene	ND	ug/Kg dry	570	1	06/28/06
Bromochloromethane	ND	ug/Kg dry	570	1	06/28/06
Bromodichloromethane	ND	ug/Kg dry	570	1	06/28/06
Bromoform	ND	ug/Kg dry	<del>570</del> 4781	1	06/28/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED3101

Date Sampled: 06/21/06 10:20

Percent Solids: 24

Initial Volume: 7.6

Final Volume: 15

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-01

Sample Matrix: Soil

Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

Bromomethane	ND	ug/Kg dry	1140	1	06/28/06
Carbon Disulfide	ND	ug/Kg dry	570	1	06/28/06
Carbon Tetrachloride	ND	ug/Kg dry	570	1	06/28/06
Chlorobenzene	ND	ug/Kg dry	570	1	06/28/06
Chloroethane	ND	ug/Kg dry	1140	1	06/28/06
Chloroform	ND	ug/Kg dry	570	1	06/28/06
Chloromethane	ND	ug/Kg dry	1140	1	06/28/06
<b>cis-1,2-Dichloroethene</b>	<b>10600</b>	ug/Kg dry	570	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	570	1	06/28/06
Dibromochloromethane	ND	ug/Kg dry	570	1	06/28/06
Dibromomethane	ND	ug/Kg dry	570	1	06/28/06
Dichlorodifluoromethane	ND	ug/Kg dry	570	1	06/28/06
Diethyl Ether	ND	ug/Kg dry	570	1	06/28/06
Di-isopropyl ether	ND	ug/Kg dry	570	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	570	1	06/28/06
Ethylbenzene	ND	ug/Kg dry	570	1	06/28/06
Hexachlorobutadiene	ND	ug/Kg dry	570	1	06/28/06
Isopropylbenzene	ND	ug/Kg dry	570	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	570	1	06/28/06
Methylene Chloride	ND	ug/Kg dry	2850	1	06/28/06
Naphthalene	ND	ug/Kg dry	570	1	06/28/06
n-Butylbenzene	ND	ug/Kg dry	570	1	06/28/06
n-Propylbenzene	ND	ug/Kg dry	570	1	06/28/06
sec-Butylbenzene	ND	ug/Kg dry	570	1	06/28/06
Styrene	ND	ug/Kg dry	570	1	06/28/06
tert-Butylbenzene	ND	ug/Kg dry	570	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	570	1	06/28/06
Tetrachloroethene	ND	ug/Kg dry	570	1	06/28/06
Tetrahydrofuran	ND	ug/Kg dry	2850	1	06/28/06
<b>Toluene</b>	<b>1920</b>	ug/Kg dry	570	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	570	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	570	1	06/28/06
<b>Trichloroethene</b>	<b>797</b>	ug/Kg dry	570	1	06/28/06
Trichlorofluoromethane	ND	ug/Kg dry	570	1	06/28/06
Vinyl Acetate	ND	ug/Kg dry	2850	1	06/28/06
<b>Vinyl Chloride</b>	<b>11700</b>	ug/Kg dry	<del>482</del>	1	06/28/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3101  
Date Sampled: 06/21/06 10:20  
Percent Solids: 24  
Initial Volume: 7.6  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-01  
Sample Matrix: Soil  
Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

Xylene O	ND	ug/Kg dry	570	1	06/28/06
Xylene P,M	ND	ug/Kg dry	1140	1	06/28/06
Xylenes (Total)	ND	ug/Kg dry	1710		06/28/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	88 %		70-130
Surrogate: 4-Bromofluorobenzene	100 %		70-130
Surrogate: Dibromofluoromethane	106 %		70-130
Surrogate: Toluene-d8	104 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2904  
Date Sampled: 06/21/06 14:55  
Percent Solids: 26  
Initial Volume: 8.3  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-08  
Sample Matrix: Soil  
Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	980	1	06/28/06
1,1,1-Trichloroethane	ND	ug/Kg dry	490	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	490	1	06/28/06
1,1,2-Trichloroethane	ND	ug/Kg dry	490	1	06/28/06
1,1-Dichloroethane	ND	ug/Kg dry	490	1	06/28/06
1,1-Dichloroethene	ND	ug/Kg dry	490	1	06/28/06
1,1-Dichloropropene	ND	ug/Kg dry	490	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	490	1	06/28/06
1,2,3-Trichloropropane	ND	ug/Kg dry	490	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	490	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	490	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	2450	1	06/28/06
1,2-Dibromoethane	ND	ug/Kg dry	490	1	06/28/06
1,2-Dichlorobenzene	ND	ug/Kg dry	490	1	06/28/06
1,2-Dichloroethane	ND	ug/Kg dry	490	1	06/28/06
1,2-Dichloropropane	ND	ug/Kg dry	490	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	490	1	06/28/06
1,3-Dichlorobenzene	ND	ug/Kg dry	490	1	06/28/06
1,3-Dichloropropane	ND	ug/Kg dry	490	1	06/28/06
1,4-Dichlorobenzene	ND	ug/Kg dry	490	1	06/28/06
1,4-Dioxane - Screen	ND	ug/Kg dry	49000	1	06/28/06
1-Chlorohexane	ND	ug/Kg dry	490	1	06/28/06
2,2-Dichloropropane	ND	ug/Kg dry	980	1	06/28/06
2-Butanone	ND	ug/Kg dry	12200	1	06/28/06
2-Chlorotoluene	ND	ug/Kg dry	490	1	06/28/06
2-Hexanone	ND	ug/Kg dry	4900	1	06/28/06
4-Chlorotoluene	ND	ug/Kg dry	490	1	06/28/06
4-Isopropyltoluene	ND	ug/Kg dry	490	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	4900	1	06/28/06
Acetone	ND	ug/Kg dry	12200	1	06/28/06
Benzene	ND	ug/Kg dry	490	1	06/28/06
Bromobenzene	ND	ug/Kg dry	490	1	06/28/06
Bromochloromethane	ND	ug/Kg dry	490	1	06/28/06
Bromodichloromethane	ND	ug/Kg dry	490	1	06/28/06
Bromoform	ND	ug/Kg dry	490	1	06/28/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED2904

Date Sampled: 06/21/06 14:55

Percent Solids: 26

Initial Volume: 8.3

Final Volume: 15

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-08

Sample Matrix: Soil

Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

Bromomethane	ND	ug/Kg dry	980	1	06/28/06
Carbon Disulfide	ND	ug/Kg dry	490	1	06/28/06
Carbon Tetrachloride	ND	ug/Kg dry	490	1	06/28/06
Chlorobenzene	ND	ug/Kg dry	490	1	06/28/06
Chloroethane	ND	ug/Kg dry	980	1	06/28/06
Chloroform	ND	ug/Kg dry	490	1	06/28/06
Chloromethane	ND	ug/Kg dry	980	1	06/28/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	490	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	490	1	06/28/06
Dibromochloromethane	ND	ug/Kg dry	490	1	06/28/06
Dibromomethane	ND	ug/Kg dry	490	1	06/28/06
Dichlorodifluoromethane	ND	ug/Kg dry	490	1	06/28/06
Diethyl Ether	ND	ug/Kg dry	490	1	06/28/06
Di-isopropyl ether	ND	ug/Kg dry	490	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	490	1	06/28/06
Ethylbenzene	ND	ug/Kg dry	490	1	06/28/06
Hexachlorobutadiene	ND	ug/Kg dry	490	1	06/28/06
Isopropylbenzene	ND	ug/Kg dry	490	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	490	1	06/28/06
Methylene Chloride	ND	ug/Kg dry	2450	1	06/28/06
Naphthalene	ND	ug/Kg dry	490	1	06/28/06
n-Butylbenzene	ND	ug/Kg dry	490	1	06/28/06
n-Propylbenzene	ND	ug/Kg dry	490	1	06/28/06
sec-Butylbenzene	ND	ug/Kg dry	490	1	06/28/06
Styrene	ND	ug/Kg dry	490	1	06/28/06
tert-Butylbenzene	ND	ug/Kg dry	490	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	490	1	06/28/06
Tetrachloroethene	ND	ug/Kg dry	490	1	06/28/06
Tetrahydrofuran	ND	ug/Kg dry	2450	1	06/28/06
Toluene	ND	ug/Kg dry	490	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	490	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	490	1	06/28/06
Trichloroethene	ND	ug/Kg dry	490	1	06/28/06
Trichlorofluoromethane	ND	ug/Kg dry	490	1	06/28/06
Vinyl Acetate	ND	ug/Kg dry	2450	1	06/28/06
Vinyl Chloride	ND	ug/Kg dry	<del>485</del>	1	06/28/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2904  
Date Sampled: 06/21/06 14:55  
Percent Solids: 26  
Initial Volume: 8.3  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-08  
Sample Matrix: Soil  
Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

Xylene O	ND	ug/Kg dry	490	1	06/28/06
Xylene P,M	ND	ug/Kg dry	980	1	06/28/06
Xylenes (Total)	ND	ug/Kg dry	1470		06/28/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	94 %		70-130
Surrogate: 4-Bromofluorobenzene	99 %		70-130
Surrogate: Dibromofluoromethane	103 %		70-130
Surrogate: Toluene-d8	104 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: Trip blank  
Date Sampled: 06/21/06 00:00  
Percent Solids: N/A  
Initial Volume: 15  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-11  
Sample Matrix: Solid  
Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg	100	1	06/28/06
1,1,1-Trichloroethane	ND	ug/Kg	50.0	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg	50.0	1	06/28/06
1,1,2-Trichloroethane	ND	ug/Kg	50.0	1	06/28/06
1,1-Dichloroethane	ND	ug/Kg	50.0	1	06/28/06
1,1-Dichloroethene	ND	ug/Kg	50.0	1	06/28/06
1,1-Dichloropropene	ND	ug/Kg	50.0	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/Kg	50.0	1	06/28/06
1,2,3-Trichloropropane	ND	ug/Kg	50.0	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/Kg	50.0	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/Kg	50.0	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg	250	1	06/28/06
1,2-Dibromoethane	ND	ug/Kg	50.0	1	06/28/06
1,2-Dichlorobenzene	ND	ug/Kg	50.0	1	06/28/06
1,2-Dichloroethane	ND	ug/Kg	50.0	1	06/28/06
1,2-Dichloropropane	ND	ug/Kg	50.0	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/Kg	50.0	1	06/28/06
1,3-Dichlorobenzene	ND	ug/Kg	50.0	1	06/28/06
1,3-Dichloropropane	ND	ug/Kg	50.0	1	06/28/06
1,4-Dichlorobenzene	ND	ug/Kg	50.0	1	06/28/06
1,4-Dioxane - Screen	ND	ug/Kg	5000	1	06/28/06
1-Chlorohexane	ND	ug/Kg	50.0	1	06/28/06
2,2-Dichloropropane	ND	ug/Kg	100	1	06/28/06
2-Butanone	ND	ug/Kg	1250	1	06/28/06
2-Chlorotoluene	ND	ug/Kg	50.0	1	06/28/06
2-Hexanone	ND	ug/Kg	500	1	06/28/06
4-Chlorotoluene	ND	ug/Kg	50.0	1	06/28/06
4-Isopropyltoluene	ND	ug/Kg	50.0	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/Kg	500	1	06/28/06
Acetone	ND	ug/Kg	1250	1	06/28/06
Benzene	ND	ug/Kg	50.0	1	06/28/06
Bromobenzene	ND	ug/Kg	50.0	1	06/28/06
Bromochloromethane	ND	ug/Kg	50.0	1	06/28/06
Bromodichloromethane	ND	ug/Kg	50.0	1	06/28/06
Bromoform	ND	ug/Kg	50.0	1	06/28/06

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: Trip blank  
Date Sampled: 06/21/06 00:00  
Percent Solids: N/A  
Initial Volume: 15  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-11  
Sample Matrix: Solid  
Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

Bromomethane	ND	ug/Kg	100	1	06/28/06
Carbon Disulfide	ND	ug/Kg	50.0	1	06/28/06
Carbon Tetrachloride	ND	ug/Kg	50.0	1	06/28/06
Chlorobenzene	ND	ug/Kg	50.0	1	06/28/06
Chloroethane	ND	ug/Kg	100	1	06/28/06
Chloroform	ND	ug/Kg	50.0	1	06/28/06
Chloromethane	ND	ug/Kg	100	1	06/28/06
cis-1,2-Dichloroethene	ND	ug/Kg	50.0	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/Kg	50.0	1	06/28/06
Dibromochloromethane	ND	ug/Kg	50.0	1	06/28/06
Dibromomethane	ND	ug/Kg	50.0	1	06/28/06
Dichlorodifluoromethane	ND	ug/Kg	50.0	1	06/28/06
Diethyl Ether	ND	ug/Kg	50.0	1	06/28/06
Di-isopropyl ether	ND	ug/Kg	50.0	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/Kg	50.0	1	06/28/06
Ethylbenzene	ND	ug/Kg	50.0	1	06/28/06
Hexachlorobutadiene	ND	ug/Kg	50.0	1	06/28/06
Isopropylbenzene	ND	ug/Kg	50.0	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/Kg	50.0	1	06/28/06
Methylene Chloride	ND	ug/Kg	250	1	06/28/06
Naphthalene	ND	ug/Kg	50.0	1	06/28/06
n-Butylbenzene	ND	ug/Kg	50.0	1	06/28/06
n-Propylbenzene	ND	ug/Kg	50.0	1	06/28/06
sec-Butylbenzene	ND	ug/Kg	50.0	1	06/28/06
Styrene	ND	ug/Kg	50.0	1	06/28/06
tert-Butylbenzene	ND	ug/Kg	50.0	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/Kg	50.0	1	06/28/06
Tetrachloroethene	ND	ug/Kg	50.0	1	06/28/06
Tetrahydrofuran	ND	ug/Kg	250	1	06/28/06
Toluene	ND	ug/Kg	50.0	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/Kg	50.0	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/Kg	50.0	1	06/28/06
Trichloroethene	ND	ug/Kg	50.0	1	06/28/06
Trichlorofluoromethane	ND	ug/Kg	50.0	1	06/28/06
Vinyl Acetate	ND	ug/Kg	250	1	06/28/06
Vinyl Chloride	ND	ug/Kg	50.0	1	06/28/06



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: Trip blank  
Date Sampled: 06/21/06 00:00  
Percent Solids: N/A  
Initial Volume: 15  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-11  
Sample Matrix: Solid  
Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

Xylene O	ND	ug/Kg	50.0	1	06/28/06
Xylene P,M	ND	ug/Kg	100	1	06/28/06
Xylenes (Total)	ND	ug/Kg	300		06/28/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	79 %		70-130
Surrogate: 4-Bromofluorobenzene	91 %		70-130
Surrogate: Dibromofluoromethane	96 %		70-130
Surrogate: Toluene-d8	95 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1701  
Date Sampled: 06/22/06 09:15  
Percent Solids: 71  
Initial Volume: 20.5  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-14  
Sample Matrix: Soil  
Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	144	1	06/28/06
<b>1,1,1-Trichloroethane</b>	<b>715</b>	ug/Kg dry	72.0	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	72.0	1	06/28/06
1,1,2-Trichloroethane	ND	ug/Kg dry	72.0	1	06/28/06
<b>1,1-Dichloroethane</b>	<b>137</b>	ug/Kg dry	72.0	1	06/28/06
1,1-Dichloroethene	ND	ug/Kg dry	72.0	1	06/28/06
1,1-Dichloropropene	ND	ug/Kg dry	72.0	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	72.0	1	06/28/06
1,2,3-Trichloropropane	ND	ug/Kg dry	72.0	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	72.0	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	72.0	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	360	1	06/28/06
1,2-Dibromoethane	ND	ug/Kg dry	72.0	1	06/28/06
1,2-Dichlorobenzene	ND	ug/Kg dry	72.0	1	06/28/06
1,2-Dichloroethane	ND	ug/Kg dry	72.0	1	06/28/06
1,2-Dichloropropane	ND	ug/Kg dry	72.0	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	72.0	1	06/28/06
1,3-Dichlorobenzene	ND	ug/Kg dry	72.0	1	06/28/06
1,3-Dichloropropane	ND	ug/Kg dry	72.0	1	06/28/06
1,4-Dichlorobenzene	ND	ug/Kg dry	72.0	1	06/28/06
1,4-Dioxane - Screen	ND	ug/Kg dry	7200	1	06/28/06
1-Chlorohexane	ND	ug/Kg dry	72.0	1	06/28/06
2,2-Dichloropropane	ND	ug/Kg dry	144	1	06/28/06
2-Butanone	ND	ug/Kg dry	1800	1	06/28/06
2-Chlorotoluene	ND	ug/Kg dry	72.0	1	06/28/06
2-Hexanone	ND	ug/Kg dry	720	1	06/28/06
4-Chlorotoluene	ND	ug/Kg dry	72.0	1	06/28/06
4-Isopropyltoluene	ND	ug/Kg dry	72.0	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	720	1	06/28/06
Acetone	ND	ug/Kg dry	1800	1	06/28/06
Benzene	ND	ug/Kg dry	72.0	1	06/28/06
Bromobenzene	ND	ug/Kg dry	72.0	1	06/28/06
Bromochloromethane	ND	ug/Kg dry	72.0	1	06/28/06
Bromodichloromethane	ND	ug/Kg dry	72.0	1	06/28/06
Bromoform	ND	ug/Kg dry	<del>720</del> <b>790</b>	1	06/28/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED1701

Date Sampled: 06/22/06 09:15

Percent Solids: 71

Initial Volume: 20.5

Final Volume: 15

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-14

Sample Matrix: Soil

Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

Bromomethane	ND	ug/Kg dry	144	1	06/28/06
Carbon Disulfide	ND	ug/Kg dry	72.0	1	06/28/06
Carbon Tetrachloride	ND	ug/Kg dry	72.0	1	06/28/06
Chlorobenzene	ND	ug/Kg dry	72.0	1	06/28/06
Chloroethane	ND	ug/Kg dry	144	1	06/28/06
Chloroform	ND	ug/Kg dry	72.0	1	06/28/06
Chloromethane	ND	ug/Kg dry	144	1	06/28/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	72.0	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	72.0	1	06/28/06
Dibromochloromethane	ND	ug/Kg dry	72.0	1	06/28/06
Dibromomethane	ND	ug/Kg dry	72.0	1	06/28/06
Dichlorodifluoromethane	ND	ug/Kg dry	72.0	1	06/28/06
Diethyl Ether	ND	ug/Kg dry	72.0	1	06/28/06
Di-isopropyl ether	ND	ug/Kg dry	72.0	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	72.0	1	06/28/06
Ethylbenzene	ND	ug/Kg dry	72.0	1	06/28/06
Hexachlorobutadiene	ND	ug/Kg dry	72.0	1	06/28/06
Isopropylbenzene	ND	ug/Kg dry	72.0	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	72.0	1	06/28/06
Methylene Chloride	ND	ug/Kg dry	360	1	06/28/06
Naphthalene	ND	ug/Kg dry	72.0	1	06/28/06
n-Butylbenzene	ND	ug/Kg dry	72.0	1	06/28/06
n-Propylbenzene	ND	ug/Kg dry	72.0	1	06/28/06
sec-Butylbenzene	ND	ug/Kg dry	72.0	1	06/28/06
Styrene	ND	ug/Kg dry	72.0	1	06/28/06
tert-Butylbenzene	ND	ug/Kg dry	72.0	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	72.0	1	06/28/06
Tetrachloroethene	ND	ug/Kg dry	72.0	1	06/28/06
Tetrahydrofuran	ND	ug/Kg dry	360	1	06/28/06
Toluene	ND	ug/Kg dry	72.0	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	72.0	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	72.0	1	06/28/06
<b>Trichloroethene</b>	<b>1220</b>	ug/Kg dry	72.0	1	06/28/06
Trichlorofluoromethane	ND	ug/Kg dry	72.0	1	06/28/06
Vinyl Acetate	ND	ug/Kg dry	360	1	06/28/06
Vinyl Chloride	ND	ug/Kg dry	72.0	1	06/28/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED1701

Date Sampled: 06/22/06 09:15

Percent Solids: 71

Initial Volume: 20.5

Final Volume: 15

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-14

Sample Matrix: Soil

Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

Xylene O	ND	ug/Kg dry	72.0	1	06/28/06
Xylene P,M	ND	ug/Kg dry	144	!	06/28/06
Xylenes (Total)	ND	ug/Kg dry	216		06/28/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	100 %		70-130
Surrogate: 4-Bromofluorobenzene	109 %		70-130
Surrogate: Dibromofluoromethane	112 %		70-130
Surrogate: Toluene-d8	114 %		70-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED1704

Date Sampled: 06/22/06 09:30

Percent Solids: 81

Initial Volume: 18.8

Final Volume: 15

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-15

Sample Matrix: Soil

Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	122	1	06/28/06
1,1,1-Trichloroethane	135	ug/Kg dry	61.0	1	06/28/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	61.0	1	06/28/06
1,1,2-Trichloroethane	ND	ug/Kg dry	61.0	1	06/28/06
1,1-Dichloroethane	ND	ug/Kg dry	61.0	1	06/28/06
1,1-Dichloroethene	ND	ug/Kg dry	61.0	1	06/28/06
1,1-Dichloropropene	ND	ug/Kg dry	61.0	1	06/28/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	61.0	1	06/28/06
1,2,3-Trichloropropane	ND	ug/Kg dry	61.0	1	06/28/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	61.0	1	06/28/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	61.0	1	06/28/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	305	1	06/28/06
1,2-Dibromoethane	ND	ug/Kg dry	61.0	1	06/28/06
1,2-Dichlorobenzene	ND	ug/Kg dry	61.0	1	06/28/06
1,2-Dichloroethane	ND	ug/Kg dry	61.0	1	06/28/06
1,2-Dichloropropane	ND	ug/Kg dry	61.0	1	06/28/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	61.0	1	06/28/06
1,3-Dichlorobenzene	ND	ug/Kg dry	61.0	1	06/28/06
1,3-Dichloropropane	ND	ug/Kg dry	61.0	1	06/28/06
1,4-Dichlorobenzene	ND	ug/Kg dry	61.0	1	06/28/06
1,4-Dioxane - Screen	ND	ug/Kg dry	6100	1	06/28/06
1-Chlorohexane	ND	ug/Kg dry	61.0	1	06/28/06
2,2-Dichloropropane	ND	ug/Kg dry	122	1	06/28/06
2-Butanone	ND	ug/Kg dry	1520	1	06/28/06
2-Chlorotoluene	ND	ug/Kg dry	61.0	1	06/28/06
2-Hexanone	ND	ug/Kg dry	610	1	06/28/06
4-Chlorotoluene	ND	ug/Kg dry	61.0	1	06/28/06
4-Isopropyltoluene	ND	ug/Kg dry	61.0	1	06/28/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	610	1	06/28/06
Acetone	ND	ug/Kg dry	1520	1	06/28/06
Benzene	ND	ug/Kg dry	61.0	1	06/28/06
Bromobenzene	ND	ug/Kg dry	61.0	1	06/28/06
Bromochloromethane	ND	ug/Kg dry	61.0	1	06/28/06
Bromodichloromethane	ND	ug/Kg dry	61.0	1	06/28/06
Bromoform	ND	ug/Kg dry	6403	1	06/28/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED1704

Date Sampled: 06/22/06 09:30

Percent Solids: 81

Initial Volume: 18.8

Final Volume: 15

Extraction Method: 5035

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-15

Sample Matrix: Soil

Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

Bromomethane	ND	ug/Kg dry	122	1	06/28/06
Carbon Disulfide	ND	ug/Kg dry	61.0	1	06/28/06
Carbon Tetrachloride	ND	ug/Kg dry	61.0	1	06/28/06
Chlorobenzene	ND	ug/Kg dry	61.0	1	06/28/06
Chloroethane	ND	ug/Kg dry	122	1	06/28/06
Chloroform	ND	ug/Kg dry	61.0	1	06/28/06
Chloromethane	ND	ug/Kg dry	122	1	06/28/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	61.0	1	06/28/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	61.0	1	06/28/06
Dibromochloromethane	ND	ug/Kg dry	61.0	1	06/28/06
Dibromomethane	ND	ug/Kg dry	61.0	1	06/28/06
Dichlorodifluoromethane	ND	ug/Kg dry	61.0	1	06/28/06
Diethyl Ether	ND	ug/Kg dry	61.0	1	06/28/06
Di-isopropyl ether	ND	ug/Kg dry	61.0	1	06/28/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	61.0	1	06/28/06
Ethylbenzene	ND	ug/Kg dry	61.0	1	06/28/06
Hexachlorobutadiene	ND	ug/Kg dry	61.0	1	06/28/06
Isopropylbenzene	ND	ug/Kg dry	61.0	1	06/28/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	61.0	1	06/28/06
Methylene Chloride	ND	ug/Kg dry	305	1	06/28/06
Naphthalene	ND	ug/Kg dry	61.0	1	06/28/06
n-Butylbenzene	ND	ug/Kg dry	61.0	1	06/28/06
n-Propylbenzene	ND	ug/Kg dry	61.0	1	06/28/06
sec-Butylbenzene	ND	ug/Kg dry	61.0	1	06/28/06
Styrene	ND	ug/Kg dry	61.0	1	06/28/06
tert-Butylbenzene	ND	ug/Kg dry	61.0	1	06/28/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	61.0	1	06/28/06
Tetrachloroethene	ND	ug/Kg dry	61.0	1	06/28/06
Tetrahydrofuran	ND	ug/Kg dry	305	1	06/28/06
Toluene	ND	ug/Kg dry	61.0	1	06/28/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	61.0	1	06/28/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	61.0	1	06/28/06
<b>Trichloroethene</b>	<b>115</b>	ug/Kg dry	61.0	1	06/28/06
Trichlorofluoromethane	ND	ug/Kg dry	61.0	1	06/28/06
Vinyl Acetate	ND	ug/Kg dry	305	1	06/28/06
Vinyl Chloride	ND	ug/Kg dry	<b>6494</b>	1	06/28/06

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1704  
Date Sampled: 06/22/06 09:30  
Percent Solids: 81  
Initial Volume: 18.8  
Final Volume: 15  
Extraction Method: 5035

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-15  
Sample Matrix: Soil  
Analyst: RES

### 5035/8260B Volatile Organic Compounds / Methanol

Xylene O	ND	ug/Kg dry	61.0	1	06/28/06
Xylene P,M	ND	ug/Kg dry	122	1	06/28/06
Xylenes (Total)	ND	ug/Kg dry	183		06/28/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	99 %		70-130
Surrogate: 4-Bromofluorobenzene	107 %		70-130
Surrogate: Dibromofluoromethane	110 %		70-130
Surrogate: Toluene-d8	111 %		70-130

# Volatile Organics Quality Control Data



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 5035/8260B Volatile Organic Compounds / Low Level

##### Batch BF62718 - 5035

tert-Butylbenzene	24.2		ug/L	25.0		97	70-130	1	20	
Tertiary-amyl methyl ether	24.2		ug/L	25.0		97	70-130	1	20	
Tetrachloroethene	24.9		ug/L	25.0		100	70-130	0	20	
Tetrahydrofuran	22.0		ug/L	25.0		88	70-130	5	20	
Toluene	24.5		ug/L	25.0		98	70-130	0	20	
trans-1,2-Dichloroethene	27.8		ug/L	25.0		111	70-130	0.9	20	
trans-1,3-Dichloropropene	22.4		ug/L	25.0		90	70-130	1	20	
Trichloroethene	24.3		ug/L	25.0		97	70-130	0	20	
Trichlorofluoromethane	24.2		ug/L	25.0		97	70-130	1	20	
Vinyl Chloride	24.3		ug/L	25.0		97	70-130	1	20	
Xylene O	24.4		ug/L	25.0		98	70-130	0	20	
Xylene P,M	49.5		ug/L	50.0		99	70-130	0	20	
Surrogate: 1,2-Dichloroethane-d4	24.5		ug/L	25.0		98	70-130			
Surrogate: 4-Bromofluorobenzene	23.6		ug/L	25.0		94	70-130			
Surrogate: Dibromofluoromethane	23.9		ug/L	25.0		96	70-130			
Surrogate: Toluene-d8	23.3		ug/L	25.0		93	70-130			

#### 5035/8260B Volatile Organic Compounds / Methanol

##### Batch BF62806 - 5035

##### Blank

1,1,1,2-Tetrachloroethane	ND	100	ug/Kg wet							
1,1,1-Trichloroethane	ND	50.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	50.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	50.0	ug/Kg wet							
1,1-Dichloroethane	ND	50.0	ug/Kg wet							
1,1-Dichloroethene	ND	50.0	ug/Kg wet							
1,1-Dichloropropene	ND	50.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	50.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	50.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	50.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	50.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	250	ug/Kg wet							
1,2-Dibromoethane	ND	50.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,2-Dichloroethane	ND	50.0	ug/Kg wet							
1,2-Dichloropropane	ND	50.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	50.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,3-Dichloropropane	ND	50.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	50.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	5000	ug/Kg wet							
1-Chlorohexane	ND	50.0	ug/Kg wet							
2,2-Dichloropropane	ND	100	ug/Kg wet							
2-Butanone	ND	1250	ug/Kg wet							
2-Chlorotoluene	ND	50.0	ug/Kg wet							
2-Hexanone	ND	500	ug/Kg wet							
4-Chlorotoluene	ND	50.0	ug/Kg wet							

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 5035/8260B Volatile Organic Compounds / Methanol

#### Batch BF62806 - 5035

4-Isopropyltoluene	ND	50.0	ug/Kg wet							
4-Methyl-2-Pentanone	ND	500	ug/Kg wet							
Acetone	ND	1250	ug/Kg wet							
Benzene	ND	50.0	ug/Kg wet							
Bromobenzene	ND	50.0	ug/Kg wet							
Bromochloromethane	ND	50.0	ug/Kg wet							
Bromodichloromethane	ND	50.0	ug/Kg wet							
Bromoform	ND	50.0	ug/Kg wet							
Bromomethane	ND	100	ug/Kg wet							
Carbon Disulfide	ND	50.0	ug/Kg wet							
Carbon Tetrachloride	ND	50.0	ug/Kg wet							
Chlorobenzene	ND	50.0	ug/Kg wet							
Chloroethane	ND	100	ug/Kg wet							
Chloroform	ND	50.0	ug/Kg wet							
Chloromethane	ND	100	ug/Kg wet							
cis-1,2-Dichloroethene	ND	50.0	ug/Kg wet							
cis-1,3-Dichloropropene	ND	50.0	ug/Kg wet							
Dibromochloromethane	ND	50.0	ug/Kg wet							
Dibromomethane	ND	50.0	ug/Kg wet							
Dichlorodifluoromethane	ND	50.0	ug/Kg wet							
Diethyl Ether	ND	50.0	ug/Kg wet							
Di-isopropyl ether	ND	50.0	ug/Kg wet							
Ethyl tertiary-butyl ether	ND	50.0	ug/Kg wet							
Ethylbenzene	ND	50.0	ug/Kg wet							
Hexachlorobutadiene	ND	50.0	ug/Kg wet							
Isopropylbenzene	ND	50.0	ug/Kg wet							
Methyl tert-Butyl Ether	ND	50.0	ug/Kg wet							
Methylene Chloride	ND	250	ug/Kg wet							
Naphthalene	ND	50.0	ug/Kg wet							
n-Butylbenzene	ND	50.0	ug/Kg wet							
n-Propylbenzene	ND	50.0	ug/Kg wet							
sec-Butylbenzene	ND	50.0	ug/Kg wet							
Styrene	ND	50.0	ug/Kg wet							
tert-Butylbenzene	ND	50.0	ug/Kg wet							
Tertiary-amyl methyl ether	ND	50.0	ug/Kg wet							
Tetrachloroethene	ND	50.0	ug/Kg wet							
Tetrahydrofuran	ND	250	ug/Kg wet							
Toluene	ND	50.0	ug/Kg wet							
trans-1,2-Dichloroethene	ND	50.0	ug/Kg wet							
trans-1,3-Dichloropropene	ND	50.0	ug/Kg wet							
Trichloroethene	ND	50.0	ug/Kg wet							
Trichlorofluoromethane	ND	50.0	ug/Kg wet							
Vinyl Acetate	ND	250	ug/Kg wet							
Vinyl Chloride	ND	50.0	ug/Kg wet							
Xylene O	ND	50.0	ug/Kg wet							
Xylene P,M	ND	100	ug/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	2280		ug/Kg wet	2500		91	70-130			

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 5035/8260B Volatile Organic Compounds / Methanol

#### Batch BFG2806 - 5035

Surrogate: 4-Bromofluorobenzene	2490		ug/Kg wet	2500		100	70-130			
Surrogate: Dibromofluoromethane	2600		ug/Kg wet	2500		104	70-130			
Surrogate: Toluene-d8	2560		ug/Kg wet	2500		102	70-130			

#### LCS

1,1,1,2-Tetrachloroethane	23.2		ug/L	25.0		93	70-130			
1,1,1-Trichloroethane	24.3		ug/L	25.0		97	70-130			
1,1,2,2-Tetrachloroethane	24.6		ug/L	25.0		98	70-130			
1,1,2-Trichloroethane	24.7		ug/L	25.0		99	70-130			
1,1-Dichloroethane	24.7		ug/L	25.0		99	70-130			
1,1-Dichloroethene	25.2		ug/L	25.0		101	70-130			
1,1-Dichloropropene	23.8		ug/L	25.0		95	70-130			
1,2,3-Trichlorobenzene	26.8		ug/L	25.0		107	70-130			
1,2,3-Trichloropropane	23.6		ug/L	25.0		94	70-130			
1,2,4-Trichlorobenzene	25.3		ug/L	25.0		101	70-130			
1,2,4-Trimethylbenzene	25.6		ug/L	25.0		102	70-130			
1,2-Dibromo-3-Chloropropane	24.8		ug/L	25.0		99	70-130			
1,2-Dibromoethane	23.0		ug/L	25.0		92	70-130			
1,2-Dichlorobenzene	25.4		ug/L	25.0		102	70-130			
1,2-Dichloroethane	21.3		ug/L	25.0		85	70-130			
1,2-Dichloropropane	24.7		ug/L	25.0		99	70-130			
1,3,5-Trimethylbenzene	25.0		ug/L	25.0		100	70-130			
1,3-Dichlorobenzene	24.6		ug/L	25.0		98	70-130			
1,3-Dichloropropane	26.0		ug/L	25.0		104	70-130			
1,4-Dichlorobenzene	24.6		ug/L	25.0		98	70-130			
1,4-Dioxane - Screen	562		ug/L	500		112	70-130			
1-Chlorohexane	24.5		ug/L	25.0		98	70-130			
2,2-Dichloropropane	24.3		ug/L	25.0		97	70-130			
2-Butanone	112		ug/L	125		90	70-130			
2-Chlorotoluene	24.5		ug/L	25.0		98	70-130			
2-Hexanone	120		ug/L	125		96	70-130			
4-Chlorotoluene	24.5		ug/L	25.0		98	70-130			
4-Isopropyltoluene	25.0		ug/L	25.0		100	70-130			
4-Methyl-2-Pentanone	120		ug/L	125		96	70-130			
Acetone	118		ug/L	125		94	70-130			
Benzene	23.8		ug/L	25.0		95	70-130			
Bromobenzene	26.3		ug/L	25.0		105	70-130			
Bromochloromethane	23.0		ug/L	25.0		92	70-130			
Bromodichloromethane	26.2		ug/L	25.0		105	70-130			
Bromoform	23.4		ug/L	25.0		94	70-130			
Bromomethane	22.3		ug/L	25.0		89	70-130			
Carbon Disulfide	24.8		ug/L	25.0		99	70-130			
Carbon Tetrachloride	22.8		ug/L	25.0		91	70-130			
Chlorobenzene	25.1		ug/L	25.0		100	70-130			
Chloroethane	23.5		ug/L	25.0		94	70-130			
Chloroform	24.0		ug/L	25.0		96	70-130			
Chloromethane	23.1		ug/L	25.0		92	70-130			

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 5035/8260B Volatile Organic Compounds / Methanol

##### Batch BF62806 - 5035

cis-1,2-Dichloroethene	25.9		ug/L	25.0		104	70-130			
cis-1,3-Dichloropropene	23.1		ug/L	25.0		92	70-130			
Dibromochloromethane	23.8		ug/L	25.0		95	70-130			
Dibromomethane	24.2		ug/L	25.0		97	70-130			
Dichlorodifluoromethane	23.8		ug/L	25.0		95	70-130			
Diethyl Ether	24.2		ug/L	25.0		97	70-130			
Di-isopropyl ether	23.9		ug/L	25.0		96	70-130			
Ethyl tertiary-butyl ether	23.5		ug/L	25.0		94	70-130			
Ethylbenzene	25.7		ug/L	25.0		103	70-130			
Hexachlorobutadiene	25.9		ug/L	25.0		104	70-130			
Isopropylbenzene	23.7		ug/L	25.0		95	70-130			
Methyl tert-Butyl Ether	24.1		ug/L	25.0		96	70-130			
Methylene Chloride	25.1		ug/L	25.0		100	70-130			
Naphthalene	25.9		ug/L	25.0		104	70-130			
n-Butylbenzene	24.5		ug/L	25.0		98	70-130			
n-Propylbenzene	25.3		ug/L	25.0		101	70-130			
sec-Butylbenzene	25.2		ug/L	25.0		101	70-130			
Styrene	25.8		ug/L	25.0		103	70-130			
tert-Butylbenzene	25.6		ug/L	25.0		102	70-130			
Tertiary-amyl methyl ether	25.0		ug/L	25.0		100	70-130			
Tetrachloroethene	23.6		ug/L	25.0		94	70-130			
Tetrahydrofuran	22.1		ug/L	25.0		88	70-130			
Toluene	25.1		ug/L	25.0		100	70-130			
trans-1,2-Dichloroethene	25.4		ug/L	25.0		102	70-130			
trans-1,3-Dichloropropene	21.0		ug/L	25.0		84	70-130			
Trichloroethene	24.0		ug/L	25.0		96	70-130			
Trichlorofluoromethane	22.5		ug/L	25.0		90	70-130			
Vinyl Acetate	21.4		ug/L	25.0		86	70-130			
Vinyl Chloride	24.4		ug/L	25.0		98	70-130			
Xylene O	25.6		ug/L	25.0		102	70-130			
Xylene P,M	50.8		ug/L	50.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	2390		ug/Kg wet	2500		96	70-130			
Surrogate: 4-Bromofluorobenzene	2420		ug/Kg wet	2500		97	70-130			
Surrogate: Dibromofluoromethane	2400		ug/Kg wet	2500		96	70-130			
Surrogate: Toluene-d8	2510		ug/Kg wet	2500		100	70-130			

##### LCS Dup

1,1,1,2-Tetrachloroethane	24.4		ug/L	25.0		98	70-130	5	20	
1,1,1-Trichloroethane	26.0		ug/L	25.0		104	70-130	7	20	
1,1,2,2-Tetrachloroethane	26.0		ug/L	25.0		104	70-130	6	20	
1,1,2-Trichloroethane	26.2		ug/L	25.0		105	70-130	6	20	
1,1-Dichloroethane	26.3		ug/L	25.0		105	70-130	6	20	
1,1-Dichloroethene	27.2		ug/L	25.0		109	70-130	8	20	
1,1-Dichloropropene	25.9		ug/L	25.0		104	70-130	9	20	
1,2,3-Trichlorobenzene	27.7		ug/L	25.0		111	70-130	4	20	
1,2,3-Trichloropropane	25.5		ug/L	25.0		102	70-130	8	20	
1,2,4-Trichlorobenzene	26.7		ug/L	25.0	500	107	70-130	6	20	
1,2,4-Trimethylbenzene	27.6		ug/L	25.0		110	70-130	8	20	

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 5035/8260B Volatile Organic Compounds / Methanol

##### Batch BF62806 - 5035

1,2-Dibromo-3-Chloropropane	25.9		ug/L	25.0		104	70-130	5	20	
1,2-Dibromoethane	24.2		ug/L	25.0		97	70-130	5	20	
1,2-Dichlorobenzene	26.4		ug/L	25.0		106	70-130	4	20	
1,2-Dichloroethane	22.9		ug/L	25.0		92	70-130	8	20	
1,2-Dichloropropane	26.2		ug/L	25.0		105	70-130	6	20	
1,3,5-Trimethylbenzene	27.3		ug/L	25.0		109	70-130	9	20	
1,3-Dichlorobenzene	26.4		ug/L	25.0		106	70-130	8	20	
1,3-Dichloropropane	27.3		ug/L	25.0		109	70-130	5	20	
1,4-Dichlorobenzene	25.8		ug/L	25.0		103	70-130	5	20	
1,4-Dioxane - Screen	661		ug/L	500		132	70-130	16	20	
1-Chlorohexane	26.4		ug/L	25.0		106	70-130	8	20	+
2,2-Dichloropropane	25.6		ug/L	25.0		102	70-130	5	20	
2-Butanone	116		ug/L	125		93	70-130	3	20	
2-Chlorotoluene	27.4		ug/L	25.0		110	70-130	12	20	
2-Hexanone	125		ug/L	125		100	70-130	4	20	
4-Chlorotoluene	26.2		ug/L	25.0		105	70-130	7	20	
4-Isopropyltoluene	26.8		ug/L	25.0		107	70-130	7	20	
4-Methyl-2-Pentanone	127		ug/L	125		102	70-130	6	20	
Acetone	122		ug/L	125		98	70-130	4	20	
Benzene	24.6		ug/L	25.0		98	70-130	3	20	
Bromobenzene	27.9		ug/L	25.0		112	70-130	6	20	
Bromochloromethane	24.3		ug/L	25.0		97	70-130	5	20	
Bromodichloromethane	27.5		ug/L	25.0		110	70-130	5	20	
Bromoform	24.6		ug/L	25.0		98	70-130	4	20	
Bromomethane	24.9		ug/L	25.0		100	70-130	12	20	
Carbon Disulfide	26.5		ug/L	25.0		106	70-130	7	20	
Carbon Tetrachloride	24.9		ug/L	25.0		100	70-130	9	20	
Chlorobenzene	26.7		ug/L	25.0		107	70-130	7	20	
Chloroethane	24.8		ug/L	25.0		99	70-130	5	20	
Chloroform	25.5		ug/L	25.0		102	70-130	6	20	
Chloromethane	23.8		ug/L	25.0		95	70-130	3	20	
cis-1,2-Dichloroethene	27.2		ug/L	25.0		109	70-130	5	20	
cis-1,3-Dichloropropene	24.4		ug/L	25.0		98	70-130	6	20	
Dibromochloromethane	24.7		ug/L	25.0		99	70-130	4	20	
Dibromomethane	25.4		ug/L	25.0		102	70-130	5	20	
Dichlorodifluoromethane	25.7		ug/L	25.0		103	70-130	8	20	
Diethyl Ether	25.7		ug/L	25.0		103	70-130	6	20	
Di-isopropyl ether	25.6		ug/L	25.0		102	70-130	6	20	
Ethyl tertiary-butyl ether	25.0		ug/L	25.0		100	70-130	6	20	
Ethylbenzene	27.0		ug/L	25.0		108	70-130	5	20	
Hexachlorobutadiene	28.7		ug/L	25.0		115	70-130	10	20	
Isopropylbenzene	25.4		ug/L	25.0		102	70-130	7	20	
Methyl tert-Butyl Ether	25.6		ug/L	25.0		102	70-130	6	20	
Methylene Chloride	26.3		ug/L	25.0		105	70-130	5	20	
Naphthalene	27.6		ug/L	25.0		110	70-130	6	20	
n-Butylbenzene	26.7		ug/L	25.0		107	70-130	9	20	
n-Propylbenzene	26.9		ug/L	25.0		108	70-130	7	20	

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>5035/8260B Volatile Organic Compounds / Methanol</b>										
<b>Batch BF62806 - 5035</b>										
sec-Butylbenzene	27.1		ug/L	25.0		108	70-130	7	20	
Styrene	26.9		ug/L	25.0		108	70-130	5	20	
tert-Butylbenzene	27.2		ug/L	25.0		109	70-130	7	20	
Tertiary-amyl methyl ether	26.5		ug/L	25.0		106	70-130	6	20	
Tetrachloroethene	25.2		ug/L	25.0		101	70-130	7	20	
Tetrahydrofuran	22.6		ug/L	25.0		90	70-130	2	20	
Toluene	26.5		ug/L	25.0		106	70-130	6	20	
trans-1,2-Dichloroethene	27.0		ug/L	25.0		108	70-130	6	20	
trans-1,3-Dichloropropene	21.9		ug/L	25.0		88	70-130	5	20	
Trichloroethene	25.7		ug/L	25.0		103	70-130	7	20	
Trichlorofluoromethane	24.2		ug/L	25.0		97	70-130	7	20	
Vinyl Acetate	22.7		ug/L	25.0		91	70-130	6	20	
Vinyl Chloride	25.9		ug/L	25.0		104	70-130	6	20	
Xylene O	27.3		ug/L	25.0		109	70-130	7	20	
Xylene P,M	53.2		ug/L	50.0		106	70-130	4	20	
Surrogate: 1,2-Dichloroethane-d4	2380		ug/Kg wet	2500		95	70-130			
Surrogate: 4-Bromofluorobenzene	2500		ug/Kg wet	2500		100	70-130			
Surrogate: Dibromofluoromethane	2530		ug/Kg wet	2500		101	70-130			
Surrogate: Toluene-d8	2630		ug/Kg wet	2500		105	70-130			

### 8081A Organochlorine Pesticides

#### Batch BF62723 - 3541

##### Blank

4,4'-DDD	ND	5.00	ug/Kg wet							
4,4'-DDE	ND	5.00	ug/Kg wet							
4,4'-DDT	ND	5.00	ug/Kg wet							
Aldrin	ND	5.00	ug/Kg wet							
alpha-BHC	ND	5.00	ug/Kg wet							
alpha-Chlordane	ND	5.00	ug/Kg wet							
beta-BHC	ND	5.00	ug/Kg wet							
Chlordane (Total)	ND	50.0	ug/Kg wet							
delta-BHC	ND	5.00	ug/Kg wet							
Dieldrin	ND	5.00	ug/Kg wet							
Endosulfan I	ND	5.00	ug/Kg wet							
Endosulfan II	ND	5.00	ug/Kg wet							
Endosulfan Sulfate	ND	5.00	ug/Kg wet							
Endrin	ND	5.00	ug/Kg wet							
Endrin Aldehyde	ND	5.00	ug/Kg wet							
Endrin Ketone	ND	5.00	ug/Kg wet							
gamma-BHC (Lindane)	ND	5.00	ug/Kg wet							
gamma-Chlordane	ND	5.00	ug/Kg wet							
Heptachlor	ND	5.00	ug/Kg wet							
Heptachlor Epoxide	ND	5.00	ug/Kg wet							
Hexachlorobenzene	ND	5.00	ug/Kg wet							
Methoxychlor	ND	5.00	ug/Kg wet							
Toxaphene	ND	250	ug/Kg wet							

502

# Volatile Organics Calibration Data

## ANALYSIS SEQUENCE

BPF0223

Instrument: VMSI

Calibration ID: 0606001

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0223-TUN1	QC		1		6F27054		
BPF0223-CAL1	QC		2		6F27055	6F22057	
BPF0223-CAL2	QC		3		6F27056	6F22057	
BPF0223-CAL3	QC		4		6F27057	6F22057	
BPF0223-CAL4	QC		5		6F27058	6F22057	
BPF0223-CAL5	QC		6		6F27059	6F22057	
BPF0223-CAL6	QC		7		6F27060	6F22057	
BPF0223-SCV1	QC		8		6F27061	6F22057	

Samples Loaded By

Date

Data Processed By

Date



# MS-1 RUN LOG

## LABORATORY

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/26/06	06	M1 041035	0606348-02	A0061606		pas
	07	M1 36	BF62612-MS1		40µl/100ml from jar	pas
6/26/06	08	M1 37	BF62612-MS1	A0061606	40µl/100ml 6F12081	k
6/27/06	1	M1 38	BF0223 - T <sub>total</sub>	H052102 H052102	40µl/100ml 6F12081	pas
	2	M1 39			6F27054	pas
	3	M1 40			055	
	4	M1 41			056	
	5	M1 42			057	
	6	M1 43			058	
	7	M1 44			059 057 058	
	8	M1 45			059 057 058	
6/27/06	9	M1 46	BRF0223 - CAL6	H052102	6F27 011	d
6/28/06	1	M1 47	BRF0223 - SCV1	H062706	6F27 011	pas
6/28/06	2	M1 48	BRF0228 - CCV1	H062706	6F28037	f
					6F28038	pas

Run Sequence Confirmation

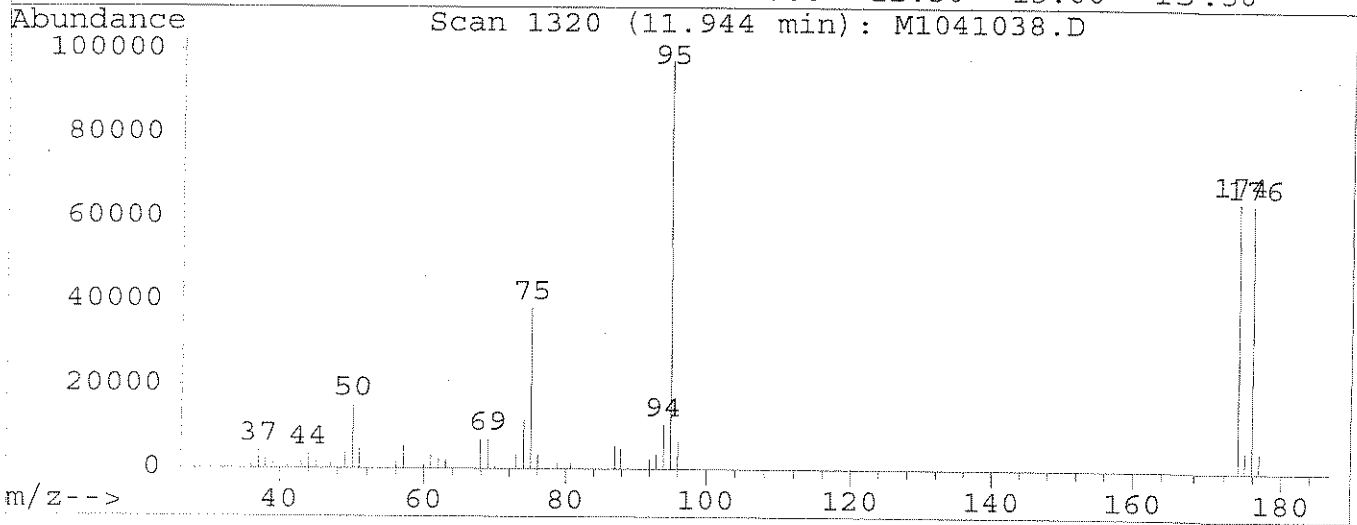
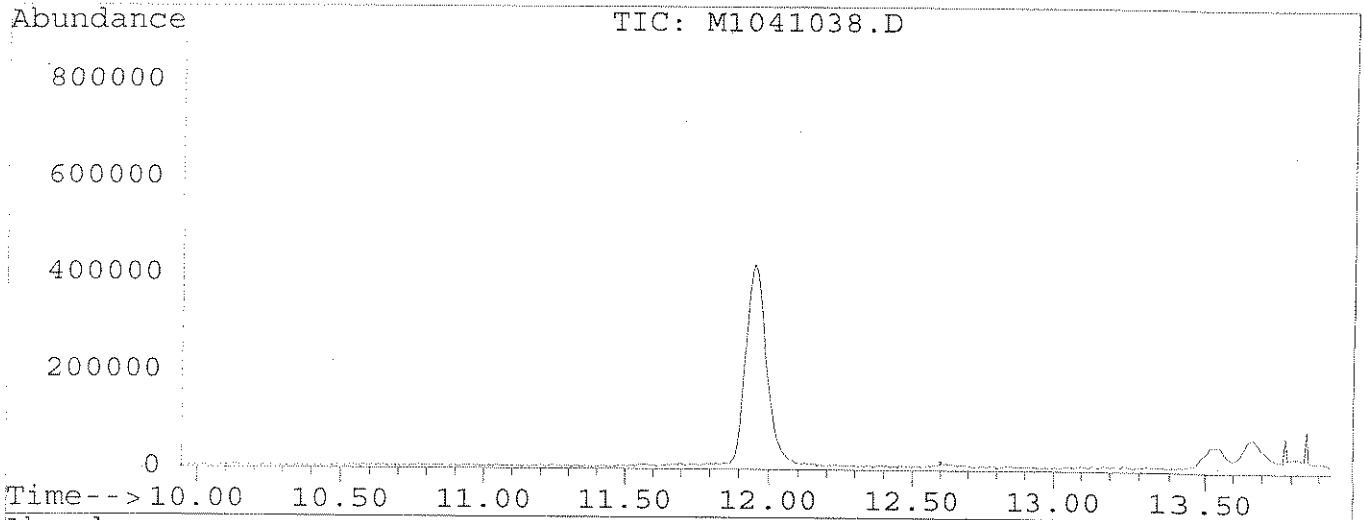
Surrogate: 6F22055 / 6E13055  
 On-column IS: 6F22057 / 627048

pas 6/27/06

Data File : Q:\VOA\MS1\_MA\MA0606\MA062706\M1041038.D  
 Acq On : 27 Jun 106 3:26 pm  
 Sample : BPF0223-TUN1  
 Misc :

Vial: 1  
 Operator: RES  
 Inst : VOA MASS  
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI053106.M  
 Title : Element ID: 0606001



Peak Apex is scan: 1320

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.8	15420	PASS
75	95	30	60	39.4	38408	PASS
95	95	100	100	100.0	97568	PASS
96	95	5	9	7.0	6797	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	66.2	64576	PASS
175	174	5	9	8.1	5235	PASS
176	174	95	101	98.9	63880	PASS
177	176	5	9	7.6	4878	PASS

Response Factor Report VOA MASS

Method : C:\HPCHEM\1\METHODS\HI062706.M  
 Title : Element ID: 0606001  
 Last Update : Wed Jun 28 07:25:32 2006  
 Response via : Initial Calibration

Calibration Files

25 =M1041039.D 10 =M1041040.D 2.5 =M1041041.D  
 .5 =M1041042.D = 50 =M1041043.D

Compound	25	10	2.5	.5	50	100 50 4/28/06	Avg	%RSD
1) I Fluorobenzene	-----ISTD-----							
2) Dichlorodifluoromet	0.478	0.460	0.390	0.340	0.481	0.445	0.432	12.99
3) Chloromethane	0.283	0.287	0.265	0.302	0.275	0.247	0.277	6.89
4) Vinyl Chloride	0.263	0.255	0.224	0.179	0.267	0.238	0.238	13.94
5) Bromomethane	0.220	0.222	0.206	0.254	0.240	0.225	0.228	7.35
6) Chloroethane	0.098	0.094	0.092	0.049	0.099	0.088	0.087	21.74
7) Trichlorofluorometh	0.508	0.497	0.460	0.403	0.519	0.479	0.478	8.88
8) Diethyl ether	0.148	0.146	0.141	0.117	0.150	0.135	0.140	8.69
9) Acrolein	0.018	0.022	0.032		0.021	0.019	0.022	24.51
10) 1,1,2-Trichloro-1,2	0.488	0.476	0.421	0.355	0.485	0.438	0.444	11.51
11) Acetone	0.008	0.011	0.019	0.008	0.007	0.438	0.011	47.84
12) Iodomethane	0.641	0.688	0.582	0.692	0.606	0.438	0.642	7.63
13) Carbon Disulfide	0.688	0.668	0.571	0.498	0.696	0.632	0.626	12.37
14) M 1,1-Dichloroethene	0.247	0.241	0.211	0.155	0.246	0.220	0.220	15.94
15) Allyl Chloride	0.398	0.382	0.339	0.338	0.400	0.355	0.369	7.67
16) Methyl Acetate	0.098	0.105	0.124	0.101	0.090	0.355	0.104	12.42
17) Methylene Chloride	0.273	0.262	0.249	0.212	0.270	0.246	0.252	8.82
18) Methyl tert-Butyl E	0.470	0.461	0.425	0.399	0.480	0.431	0.444	7.04
19) Acrylonitrile	0.037	0.035	0.031	0.037	0.034	0.431	0.035	7.22
20) trans-1,2-Dichloroe	0.278	0.271	0.243	0.199	0.280	0.256	0.254	12.11
21) 1,1-Dichloroethane	0.441	0.433	0.383	0.335	0.447	0.405	0.407	10.57
22) Vinyl Acetate	0.813	0.794	0.710	0.684	0.829	0.737	0.761	7.79
23) Chloroprene	0.318	0.304	0.270	0.217	0.320	0.293	0.287	13.61
24) Di-isopropyl ether	0.963	0.924	0.900	0.889	0.973	0.863	0.919	4.70
25) Ethyl tertiary-buty	0.727	0.703	0.668	0.593	0.744	0.673	0.685	7.84
26) 2-Butanone	0.012	0.011	0.011	0.010	0.011	0.009	0.011	7.61
27) cis-1,2 Dichloroeth	0.267	0.264	0.238	0.208	0.264	0.241	0.247	9.29
28) 2,2-Dichloropropane	0.380	0.372	0.358	0.376	0.359	0.328	0.362	5.22
29) Methyl Acrylate	0.127	0.119	0.116	0.130	0.118	0.328	0.122	5.08
30) Bromochloromethane	0.166	0.160	0.144	0.099	0.168	0.159	0.149	17.39
31) Methacrylonitrile	0.077	0.079	0.082	0.080	0.070	0.159	0.077	5.83
32) Tetrahydrofuran	0.030	0.030	0.039	0.028	0.032	0.027	0.031	13.92
33) Chloroform	0.467	0.460	0.434	0.424	0.464	0.427	0.446	4.42
34) S Dibromofluoromethan	0.473	0.466	0.417	0.358	0.472	0.435	0.437	10.27
35) 1,1,1-Trichloroetha	0.434	0.415	0.363	0.311	0.436	0.398	0.393	12.27
36) Cyclohexane	0.253	0.255	0.192	0.248	0.234	0.186	0.228	13.68
37) 1-Chlorobutane	0.496	0.427	0.467	0.568	0.535	0.428	0.487	11.77
38) 1,1-Dichloropropene	0.341	0.300	0.286	0.245	0.339	0.294	0.301	11.88
39) Carbon Tetrachlorid	0.382	0.333	0.315	0.218	0.386	0.358	0.332	18.71
40) M Benzene	0.746	0.741	0.562	0.487	0.755	0.661	0.659	16.99
41) S 1,2-Dichloroethane-	0.211	0.201	0.149	0.214	0.181	0.661	0.191	14.00
42) 1,2-Dichloroethane	0.234	0.237	0.216	0.251	0.241	0.212	0.232	6.48
43) Tertiary-amyl methy	0.621	0.612	0.581	0.504	0.644	0.600	0.593	8.23

Response Factor Report VOA MASS

Method : C:\HPCHEM\1\METHODS\HI062706.M  
 Title : Element ID: 0606001  
 Last Update : Wed Jun 28 07:25:32 2006  
 Response via : Initial Calibration

Calibration Files

25 =M1041039.D 10 =M1041040.D 2.5 =M1041041.D  
 .5 =M1041042.D = 50 =M1041043.D

Compound	25	10	2.5	.5	50	50 <sup>low</sup>	50 <sup>high</sup>	Avg	%RSD
44) M Trichloroethene	0.347	0.338	0.317	0.281	0.355	0.334	0.329	8.04	
45) Methyl Cyclohexane	0.297	0.289	0.255	0.221	0.300	0.284	0.274	11.19	
46) 1,2-Dichloropropane	0.289	0.274	0.255	0.203	0.296	0.271	0.265	12.63	
47) Dibromomethane	0.211	0.203	0.183	0.116	0.214	0.195	0.187	19.56	
48) Methyl Methacrylate	0.174	0.167	0.165	0.129	0.185	0.164	0.164	11.49	
49) 1,4-Dioxane	0.001	0.003	0.004	0.020	0.001	0.001	0.005	144.69	
50) Bromodichloromethan	0.472	0.453	0.412	0.352	0.479	0.446	0.436	10.86	
51) 2-Nitropropane	0.034	0.034	0.031	0.033	0.034	0.030	0.033	5.05	
52) 2-Chloroethyl vinyl	0.122	0.117	0.105	0.076	0.127	0.113	0.110	16.48	
53) 4-Methyl-2-Pentanone	0.067	0.065	0.060	0.053	0.070	0.062	0.063	9.59	
54) cis-1,3-Dichloropro	0.421	0.401	0.346	0.269	0.430	0.396	0.377	15.98	
55) Toluene	0.599	0.577	0.528	0.442	0.598	0.549	0.549	10.80	
56) trans-1,3-Dichlorop	0.327	0.309	0.256	0.195	0.337	0.313	0.290	18.70	
57) 1,1,2-Trichloroetha	0.188	0.181	0.172	0.123	0.191	0.173	0.171	14.57	
58) I Chlorobenzene-d5	-----ISTD-----								
59) S Toluene-d8 (SURR)	1.126	1.090	1.029	0.837	1.155	1.082	1.053	10.84	
60) 2-Hexanone	0.127	0.121	0.127	0.123	0.133	0.123	0.126	3.50	
61) Ethyl Methacrylate	0.356	0.341	0.336	0.318	0.374	0.344	0.345	5.45	
62) 1,3-Dichloropropane	0.416	0.406	0.370	0.277	0.439	0.407	0.386	15.02	
63) Tetrachloroethene	0.373	0.363	0.325	0.235	0.381	0.361	0.340	16.11	
64) Dibromochloromethan	0.429	0.405	0.363	0.268	0.466	0.446	0.396	18.20	
65) 1,2-Dibromoethane	0.385	0.362	0.320	0.238	0.405	0.384	0.349	17.66	
66) 1-Chlorohexane	0.432	0.427	0.383	0.400	0.439	0.413	0.416	5.09	
67) M Chlorobenzene	0.911	0.878	0.811	0.644	0.934	0.879	0.843	12.56	
68) 1,1,1,2-Tetrachloro	0.392	0.367	0.342	0.230	0.408	0.394	0.355	18.55	
69) Ethylbenzene	1.312	1.284	1.214	1.033	1.326	1.227	1.233	8.73	
70) Xylene P,M	0.562	0.555	0.517	0.425	0.570	0.533	0.527	10.18	
71) Xylene O	0.548	0.524	0.480	0.385	0.554	0.520	0.502	12.55	
72) Styrene	0.953	0.916	0.839	0.684	0.963	0.904	0.877	11.86	
73) Bromoform	0.244	0.225	0.183	0.060	0.268	0.259	0.207	37.69	
74) cis1,4-Dichloro-2-b	0.044	0.045	0.039	0.050	0.049	0.259	0.046	9.54	
75) S Bromofluorobenzene	0.645	0.626	0.611	0.562	0.648	0.610	0.617	5.11	
76) I 1,4 Dichlorobenzene-D	-----ISTD-----								
77) Isopropylbenzene	2.913	2.823	2.492	2.141	2.940	2.795	2.684	11.56	
78) Trans-1,4-Dichloro-	0.125	0.113	0.145	0.140	2.940	2.795	0.131	11.11	
79) 1,2,3-Trichloroprop	0.583	0.554	0.612	0.366	0.611	0.588	0.552	16.95	
80) Bromobenzene	0.843	0.810	0.731	0.619	0.868	0.831	0.784	11.87	
81) 1,1,2,2-Tetrachloro	0.694	0.679	0.642	0.591	0.720	0.674	0.667	6.74	
82) n-Propylbenzene	3.140	2.927	2.666	2.458	3.031	2.929	2.859	8.80	
83) 2-Chlorotoluene	2.207	2.171	1.895	1.833	2.196	2.073	2.062	7.86	
84) 4-Chlorotoluene	2.380	2.349	2.214	2.041	2.385	2.294	2.277	5.81	
85) 1,3,5-Trimethylbenz	2.199	2.165	1.986	1.790	2.214	2.122	2.079	7.87	

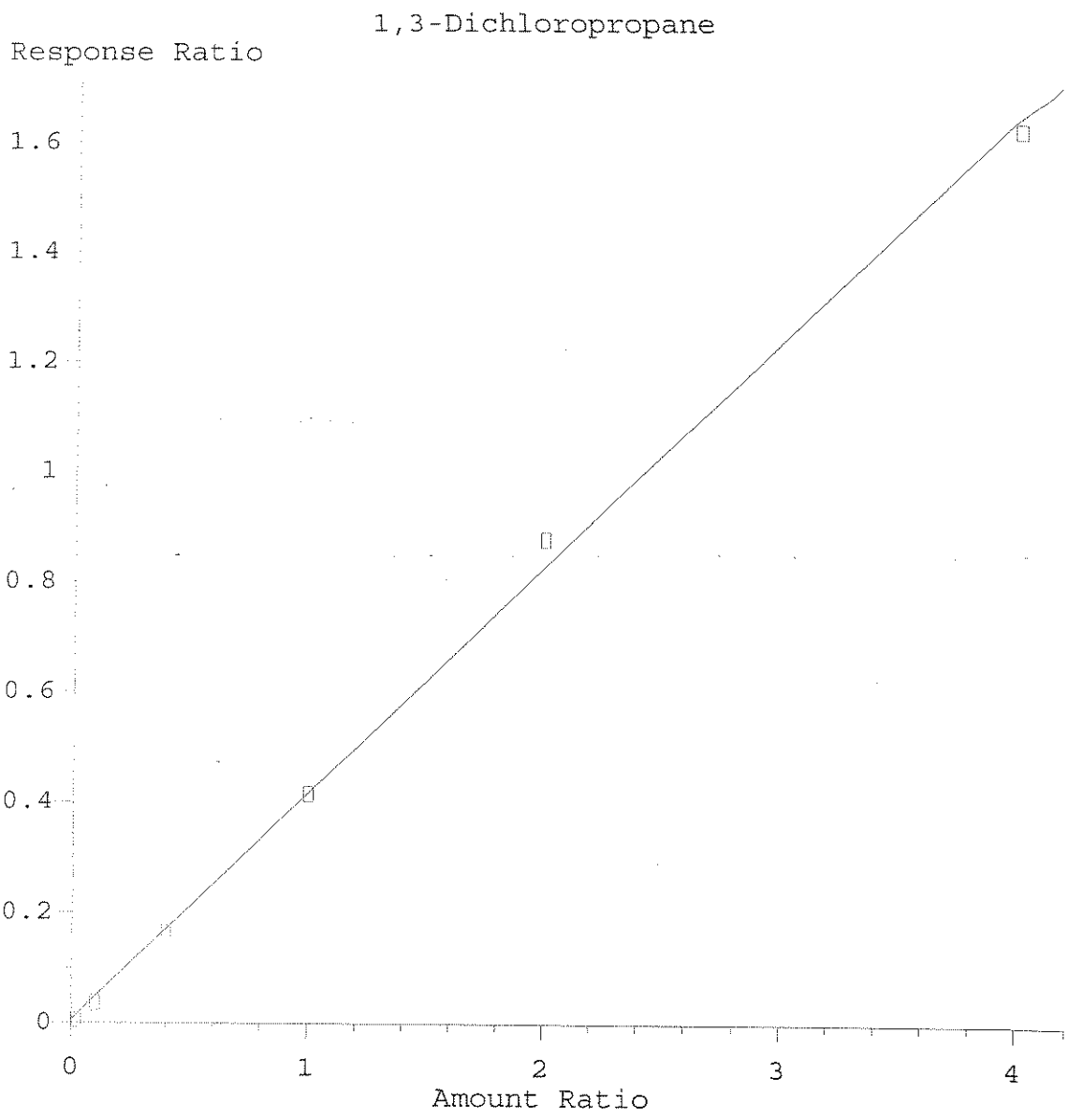
Response Factor Report VOA MASS

Method : C:\HPCHEM\1\METHODS\HI062706.M  
 Title : Element ID: 0606001  
 Last Update : Wed Jun 28 07:25:32 2006  
 Response via : Initial Calibration

Calibration Files

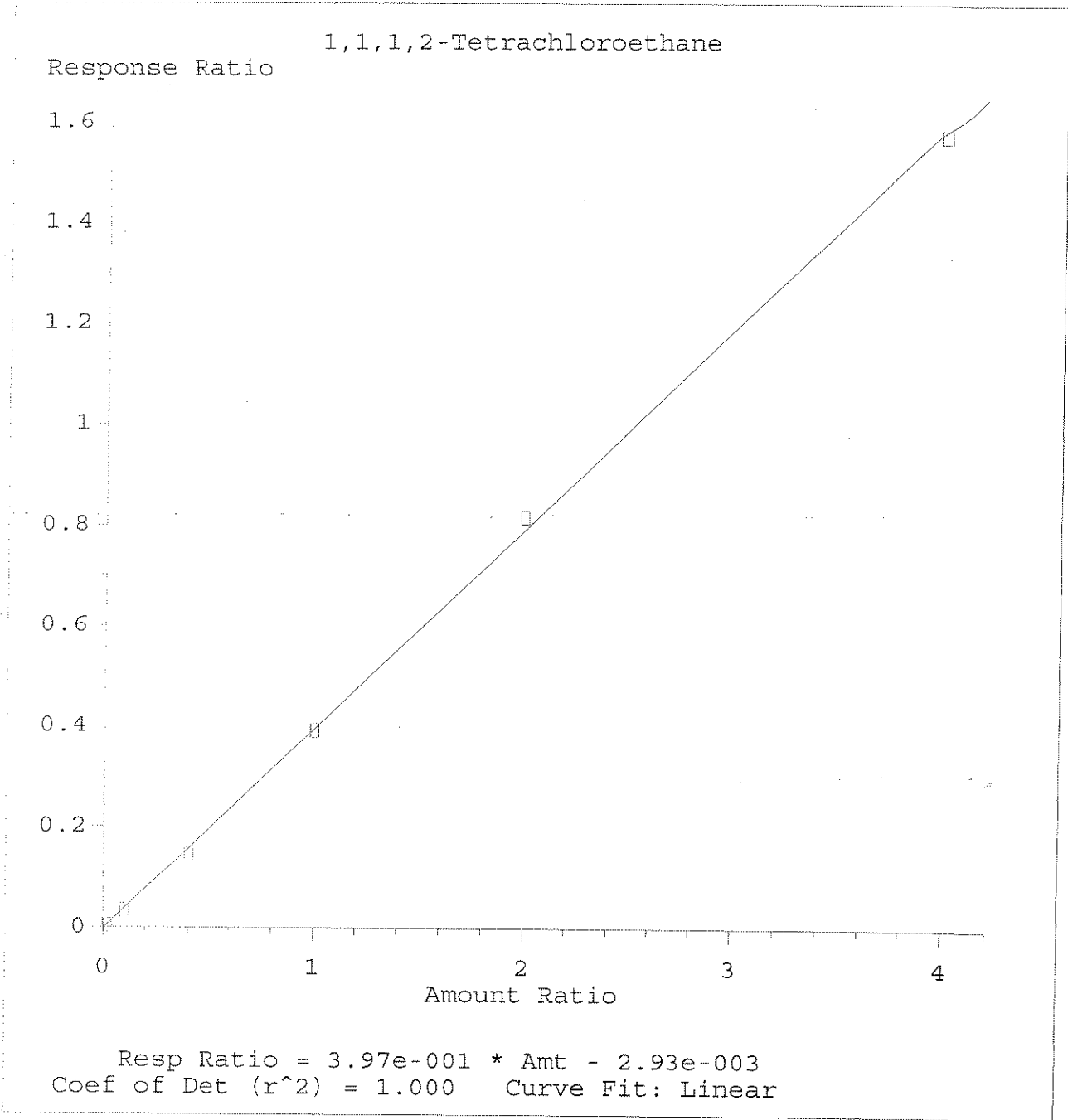
25 =M1041039.D 10 =M1041040.D 2.5 =M1041041.D  
 .5 =M1041042.D = 50 =M1041043.D

Compound	25	10	2.5	.5	50	100	Avg	%RSD
86) tert-Butylbenzene	2.751	2.664	2.403	2.013	2.764	2.654	2.542	11.39
87) Pentachloroethane	2.751	2.664	2.403	2.013	2.764	2.654	2.542	11.39
88) 1,2,4-Trimethylbenz	2.267	2.193	1.987	1.759	2.238	2.130	2.096	9.18
89) sec-Butylbenzene	2.729	2.704	2.454	2.097	2.741	2.632	2.559	9.78
90) 1,3 Dichlorobenzene	1.434	1.367	1.257	1.073	1.470	1.389	1.332	10.97
91) 4-Isopropyltoluene	2.213	2.175	1.962	1.713	2.205	2.128	2.066	9.48
92) 1,4 Dichlorobenzene	1.539	1.483	1.354	1.187	1.552	1.495	1.435	9.77
93) n-Butylbenzene	1.721	1.688	1.564	1.768	1.663	1.607	1.669	4.46
94) 1,2 Dichlorobenzene	1.239	1.215	1.094	0.890	1.267	1.215	1.153	12.29
95) Hexachloroethane	0.464	0.433	0.371	0.498	0.504	1.215	0.454	11.98
96) 1,2-Dibromo-3-Chlor	0.092	0.097	0.082	0.094	0.094	1.215	0.092	6.41
97) 1,2,4-Trichlorobenz	0.583	0.646	0.538	0.598	0.551	0.598	0.586	6.55
98) Hexachlorobutadiene	0.269	0.326	0.256	0.356	0.256	0.278	0.290	14.26
99) Naphthalene	0.806	0.992	0.793	1.128	0.799	0.838	0.893	15.40
100) 1,2,3-Trichlorobenz	0.398	0.543	0.405	0.623	0.382	0.416	0.461	21.32

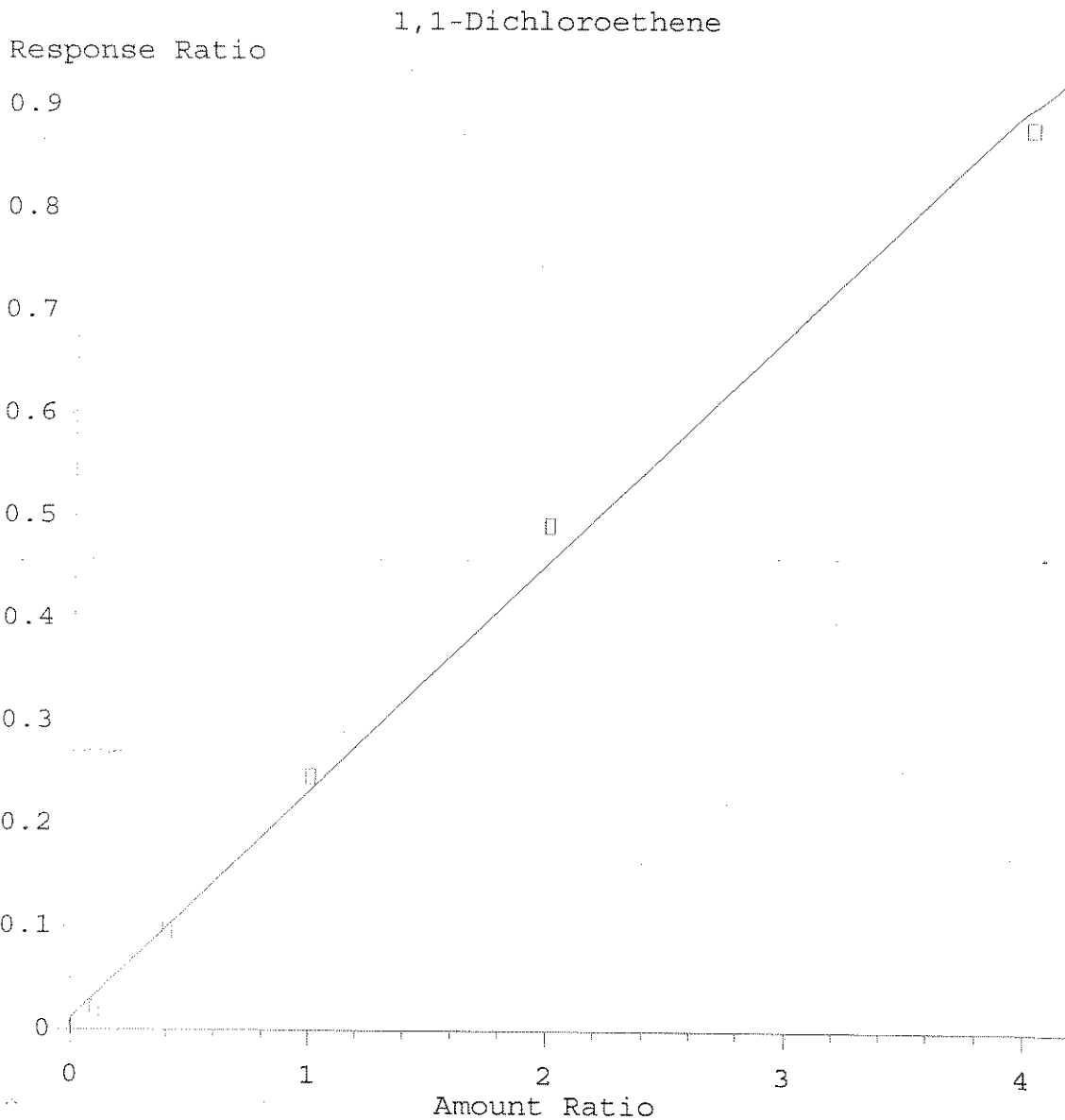


Resp Ratio =  $4.11e-001 * Amt + 5.59e-003$   
Coef of Det ( $r^2$ ) = 0.998    Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\HI062706.M  
Calibration Table Last Updated: Wed Jun 28 07:34:21 2006



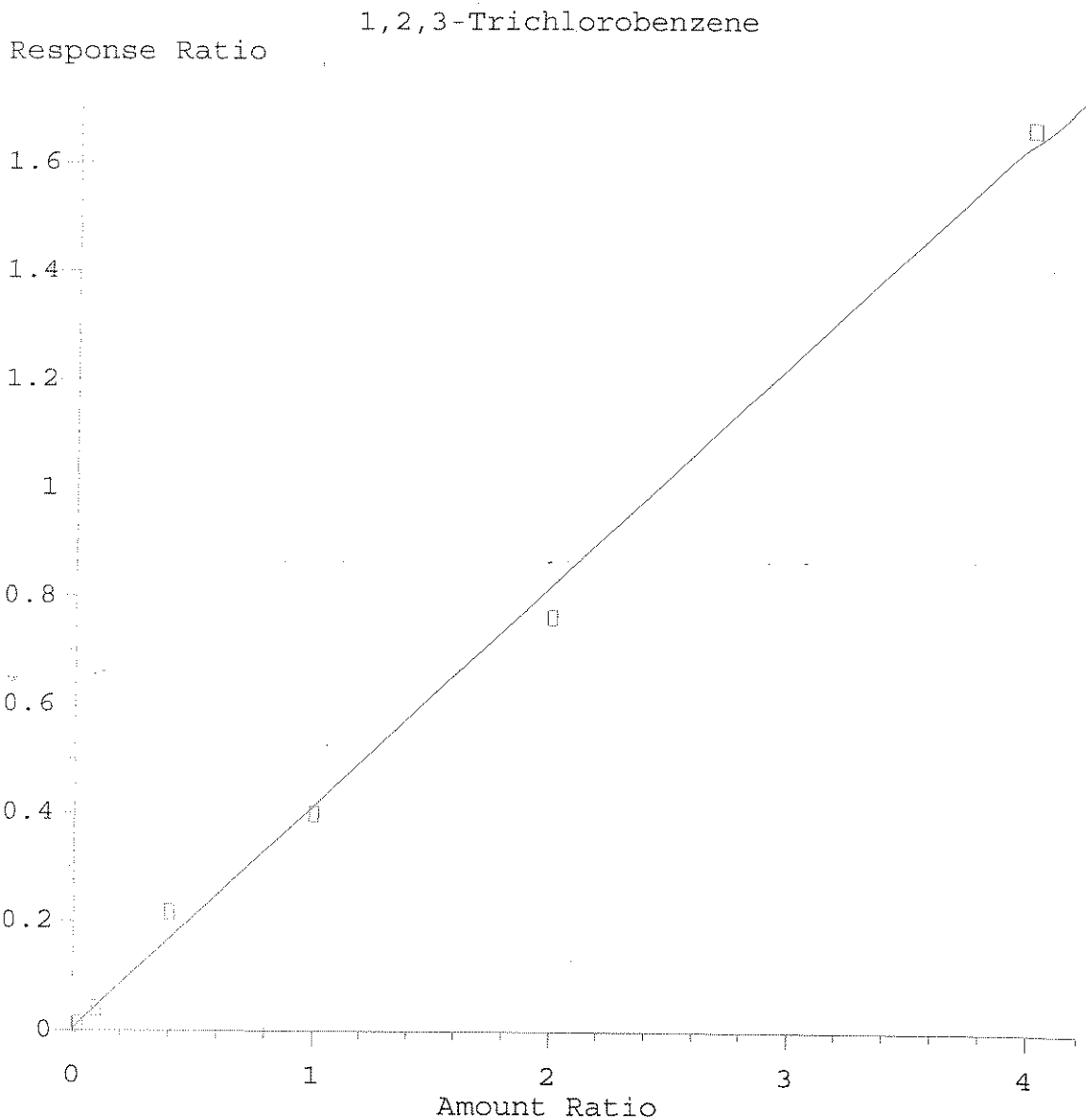
Method Name: C:\HPCHEM\1\METHODS\HI062706.M  
Calibration Table Last Updated: Wed Jun 28 07:22:08 2006



Resp Ratio =  $2.22e-001 * Amt + 1.12e-002$   
Coef of Det ( $r^2$ ) = 0.996    Curve Fit: Linear

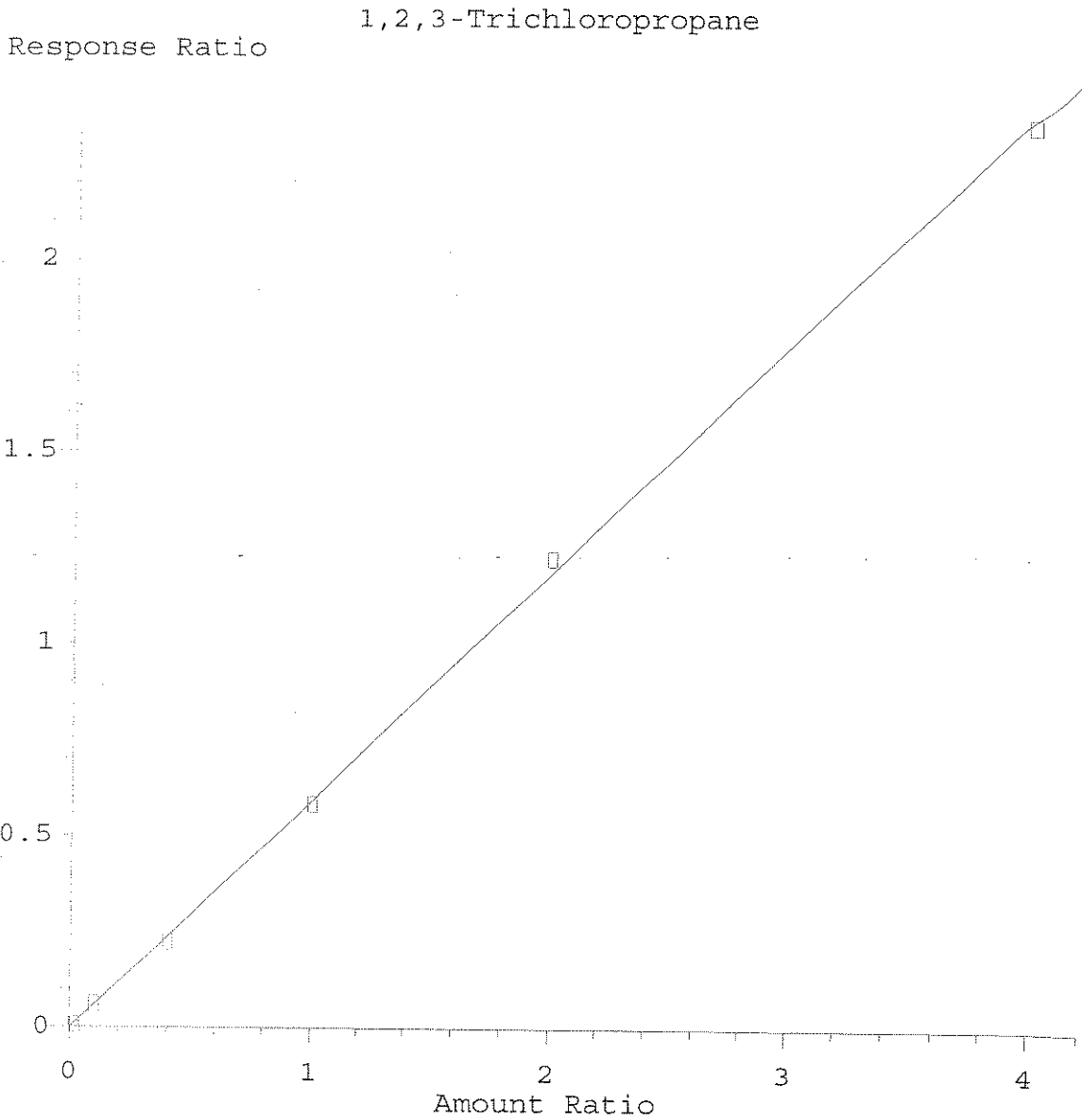
Method Name: C:\HPCHEM\1\METHODS\HI062706.M  
Calibration Table Last Updated: Wed Jun 28 06:56:36 2006





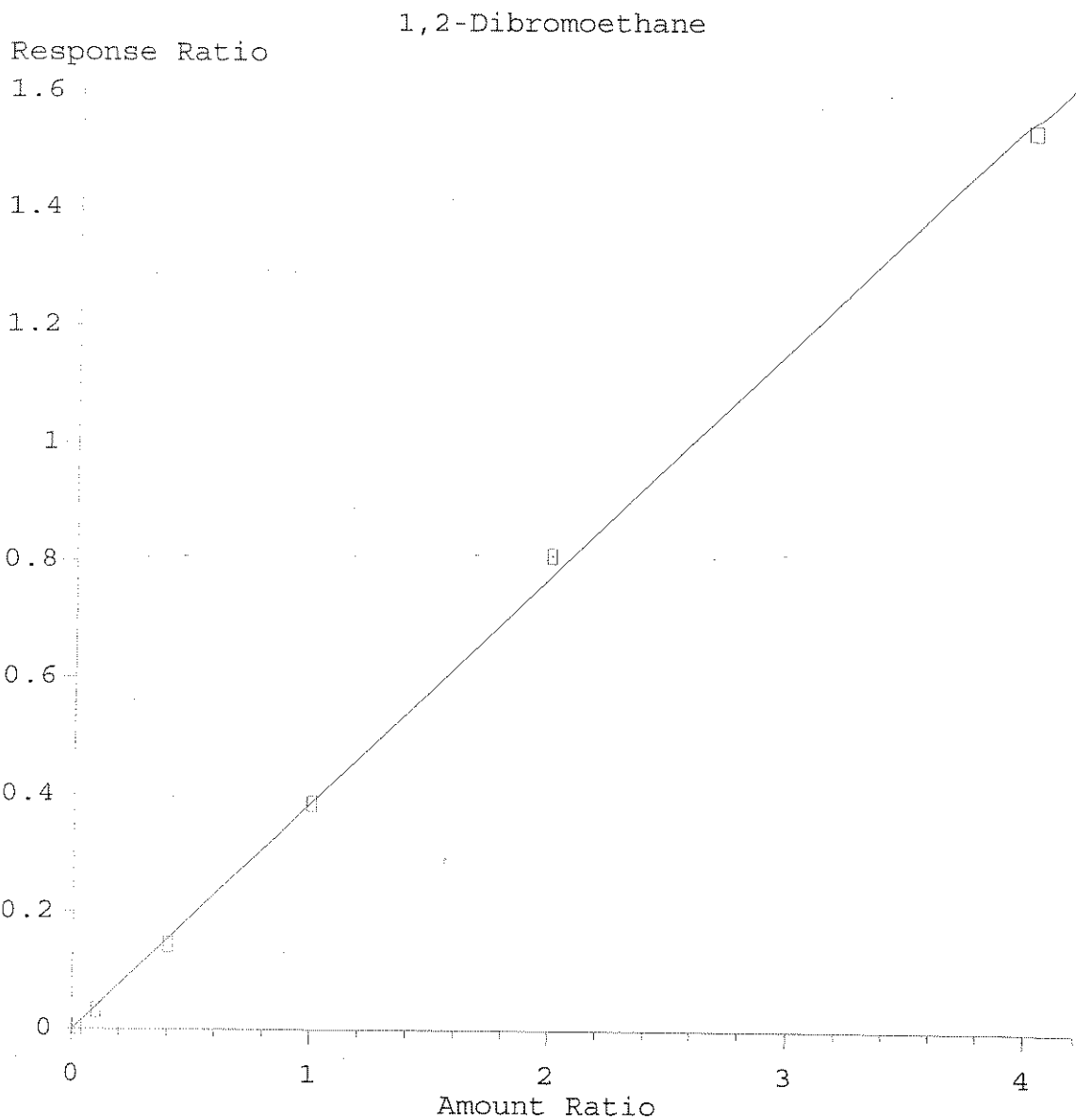
Resp Ratio =  $4.08e-001 * Amt + 4.45e-003$   
Coef of Det ( $r^2$ ) = 0.997    Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\HI062706.M  
Calibration Table Last Updated: Wed Jun 28 07:25:16 2006



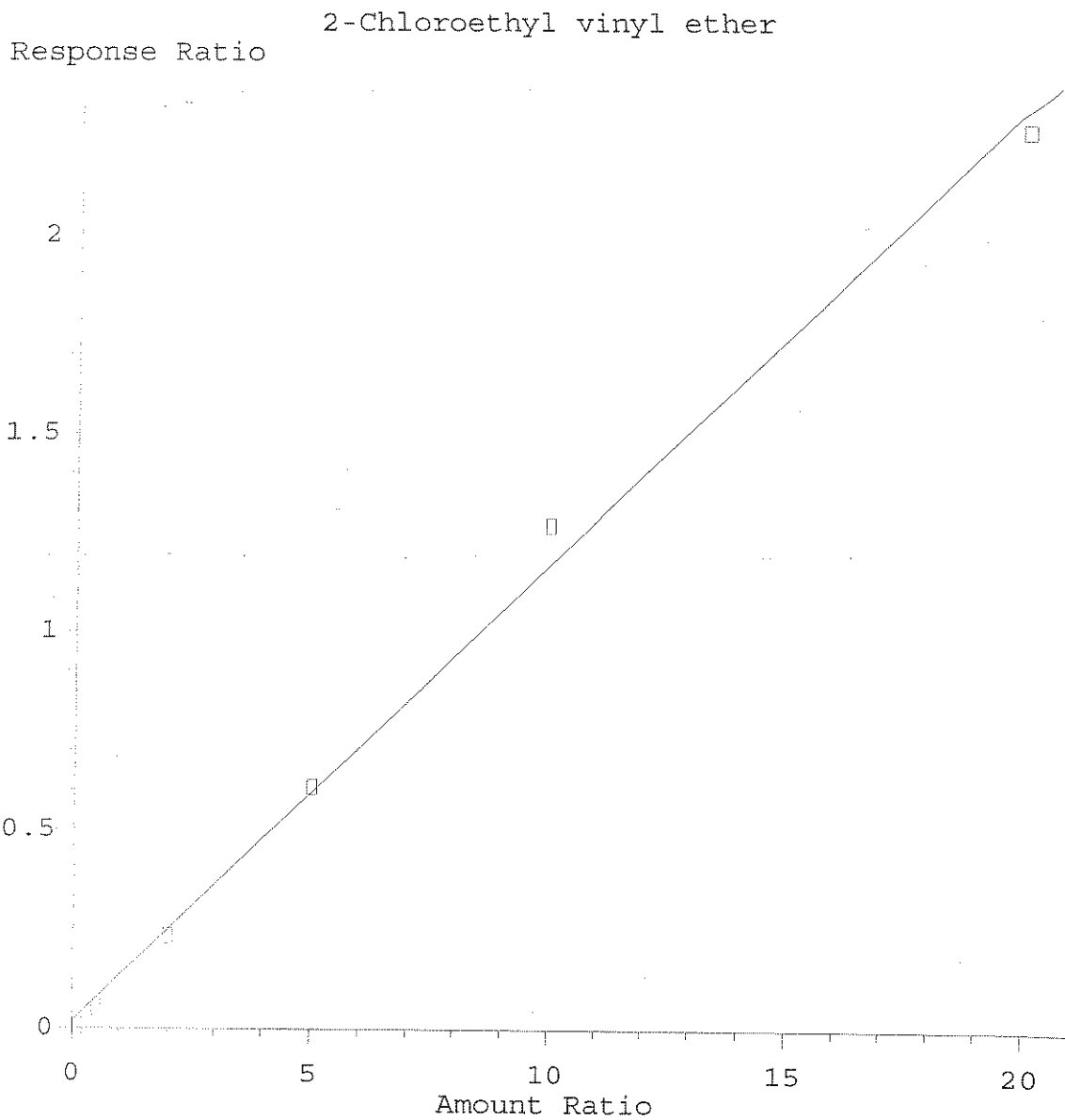
Resp Ratio = 5.93e-001 \* Amt - 1.22e-003  
Coef of Det (r<sup>2</sup>) = 1.000 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\HI062706.M  
Calibration Table Last Updated: Wed Jun 28 07:23:38 2006



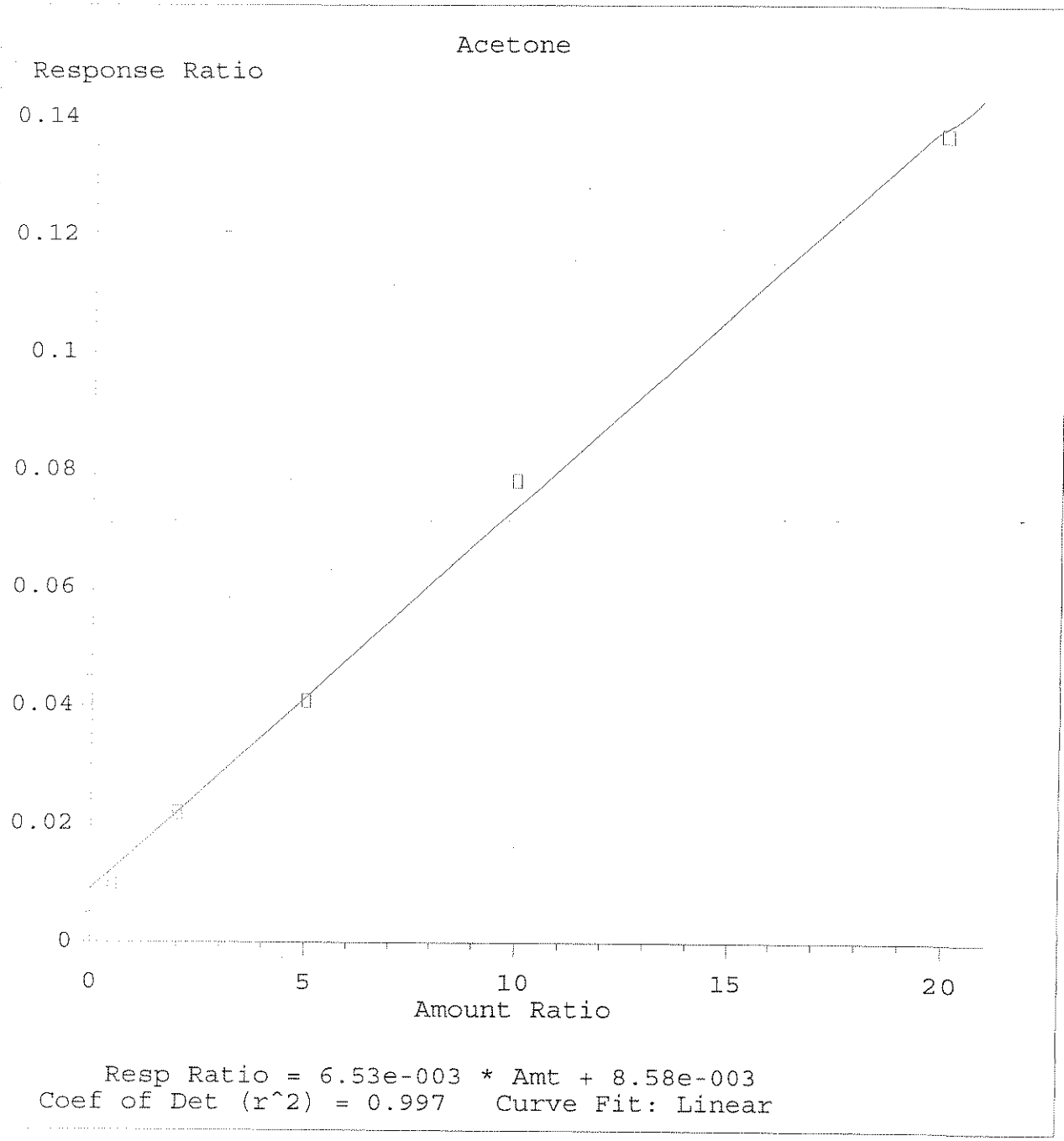
Resp Ratio =  $3.88e-001 * Amt - 1.02e-003$   
Coef of Det ( $r^2$ ) = 0.999    Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\HI062706.M  
Calibration Table Last Updated: Wed Jun 28 07:21:41 2006

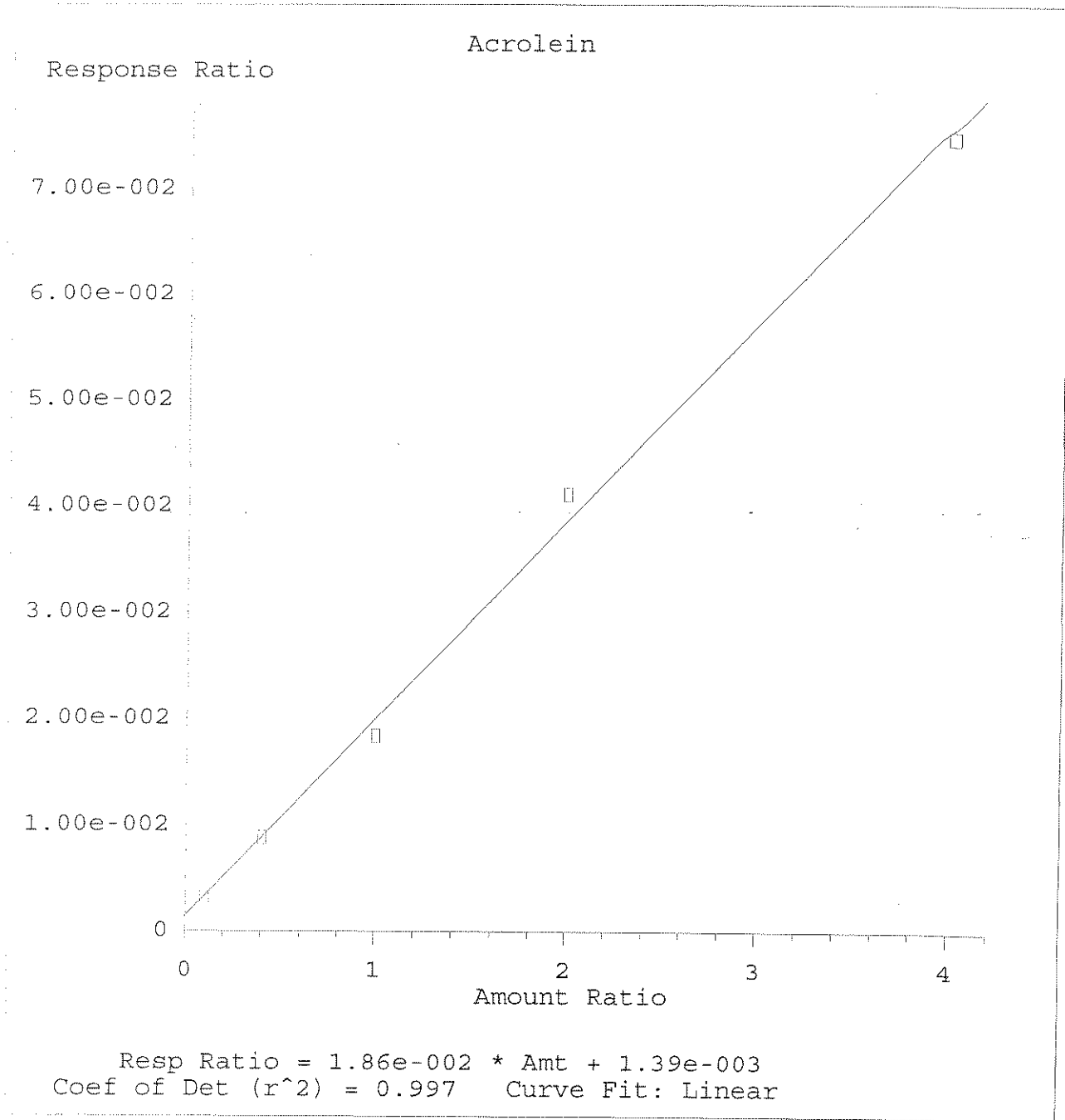


Resp Ratio = 1.15e-001 \* Amt + 1.93e-002  
Coef of Det (r<sup>2</sup>) = 0.996 Curve Fit: Linear

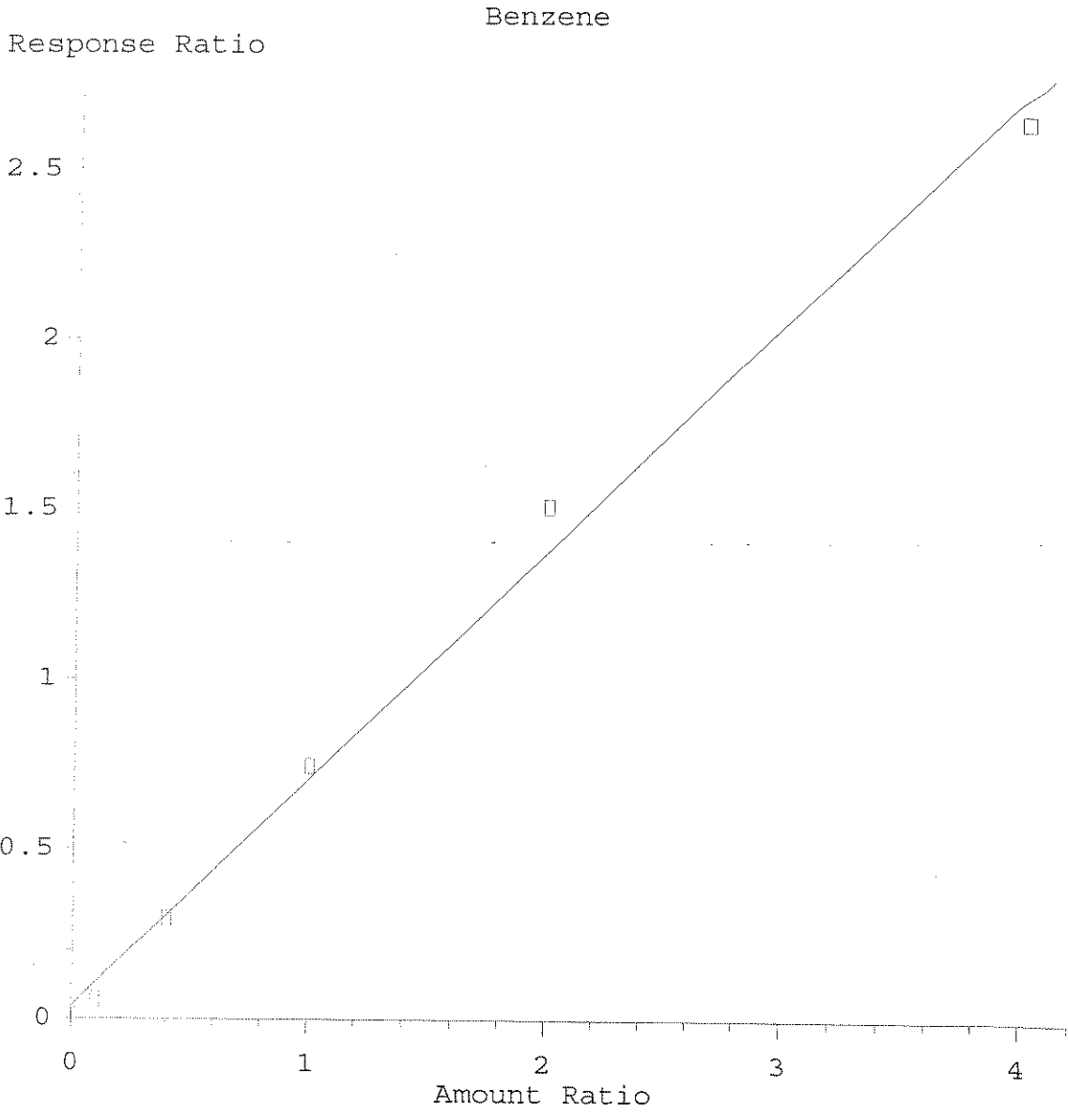
Method Name: C:\HPCHEM\1\METHODS\HI062706.M  
Calibration Table Last Updated: Wed Jun 28 07:18:27 2006



Method Name: C:\HPCHEM\1\METHODS\HI062706.M  
Calibration Table Last Updated: Wed Jun 28 06:53:51 2006

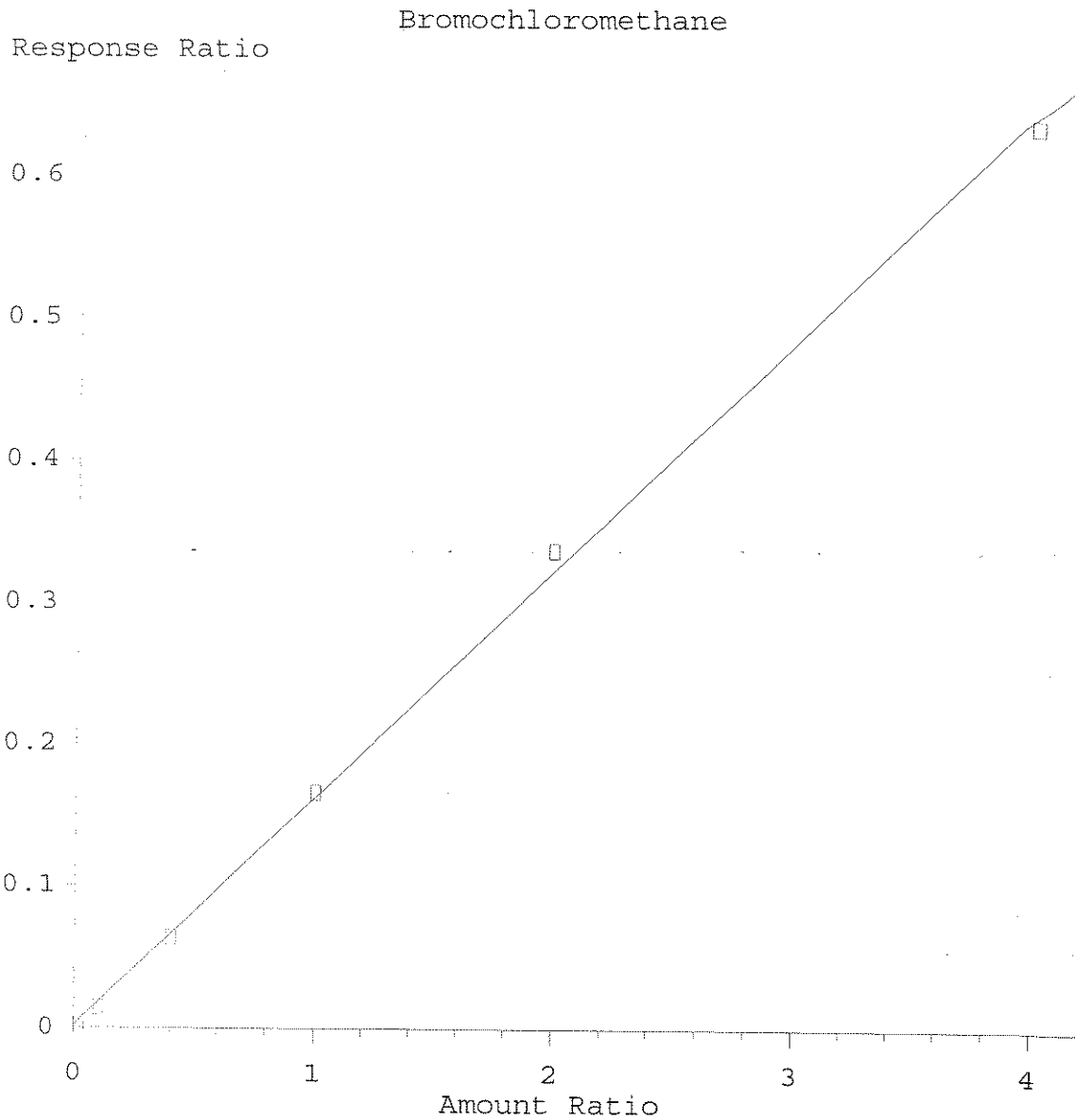


Method Name: C:\HPCHEM\1\METHODS\HI062706.M  
Calibration Table Last Updated: Wed Jun 28 06:53:04 2006



Resp Ratio =  $6.70e-001 * Amt + 3.70e-002$   
Coef of Det ( $r^2$ ) = 0.995    Curve Fit: Linear

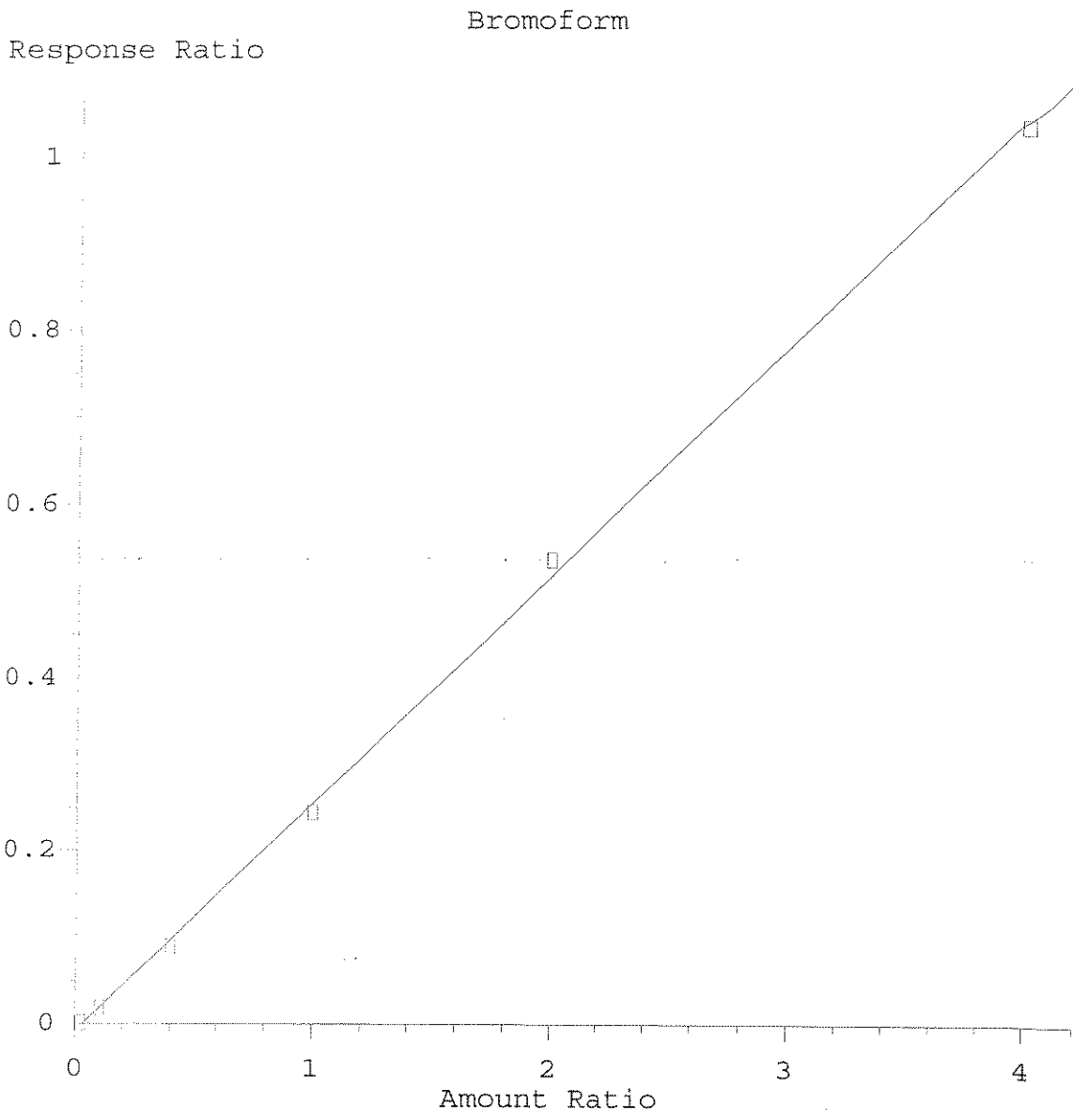
Method Name: C:\HPCHEM\1\METHODS\HI062706.M  
Calibration Table Last Updated: Wed Jun 28 07:17:16 2006



Resp Ratio =  $1.60e-001 * Amt + 2.25e-003$   
Coef of Det ( $r^2$ ) = 0.999    Curve Fit: Linear

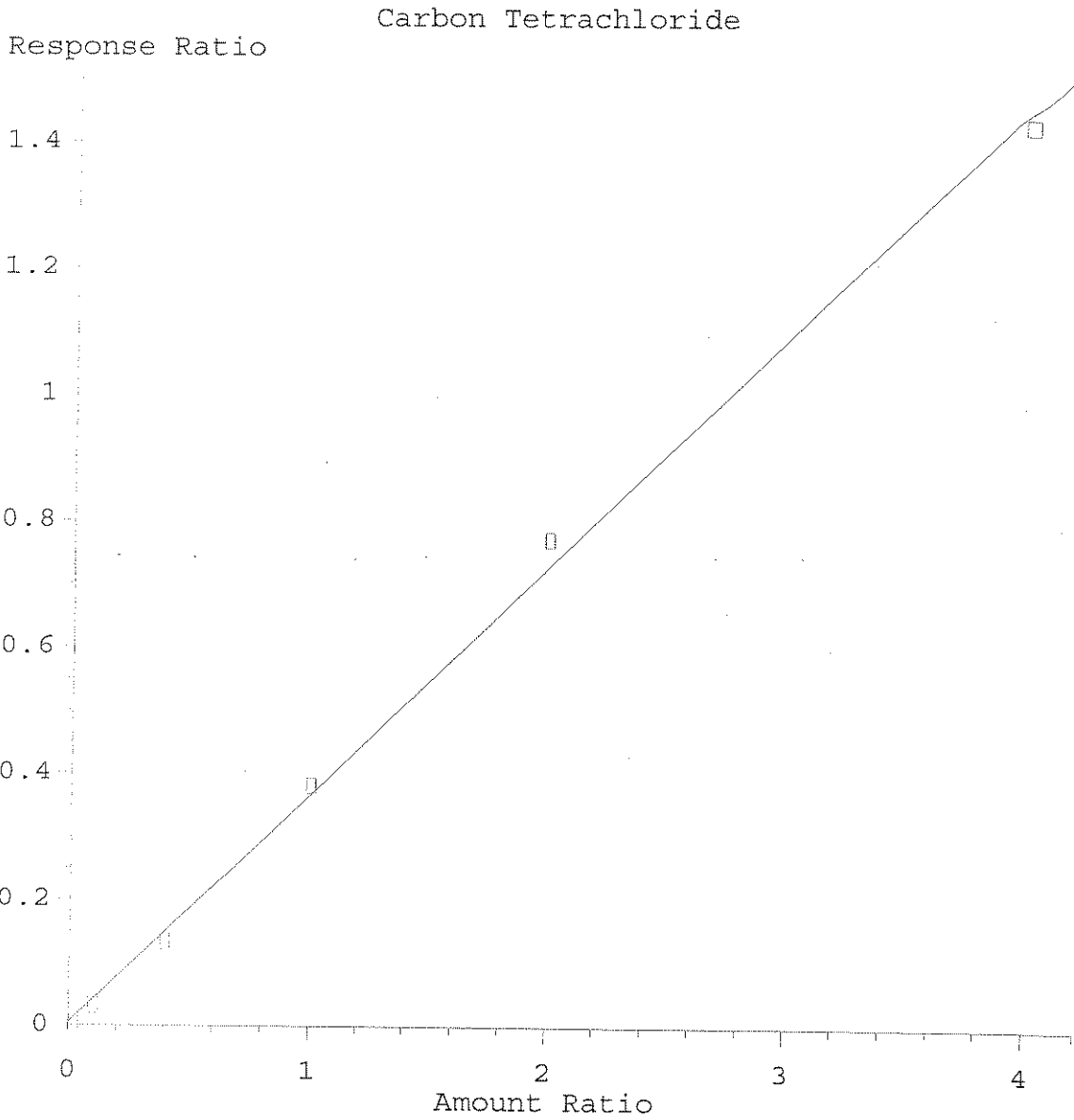
Method Name: C:\HPCHEM\1\METHODS\HI062706.M  
Calibration Table Last Updated: Wed Jun 28 06:58:52 2006





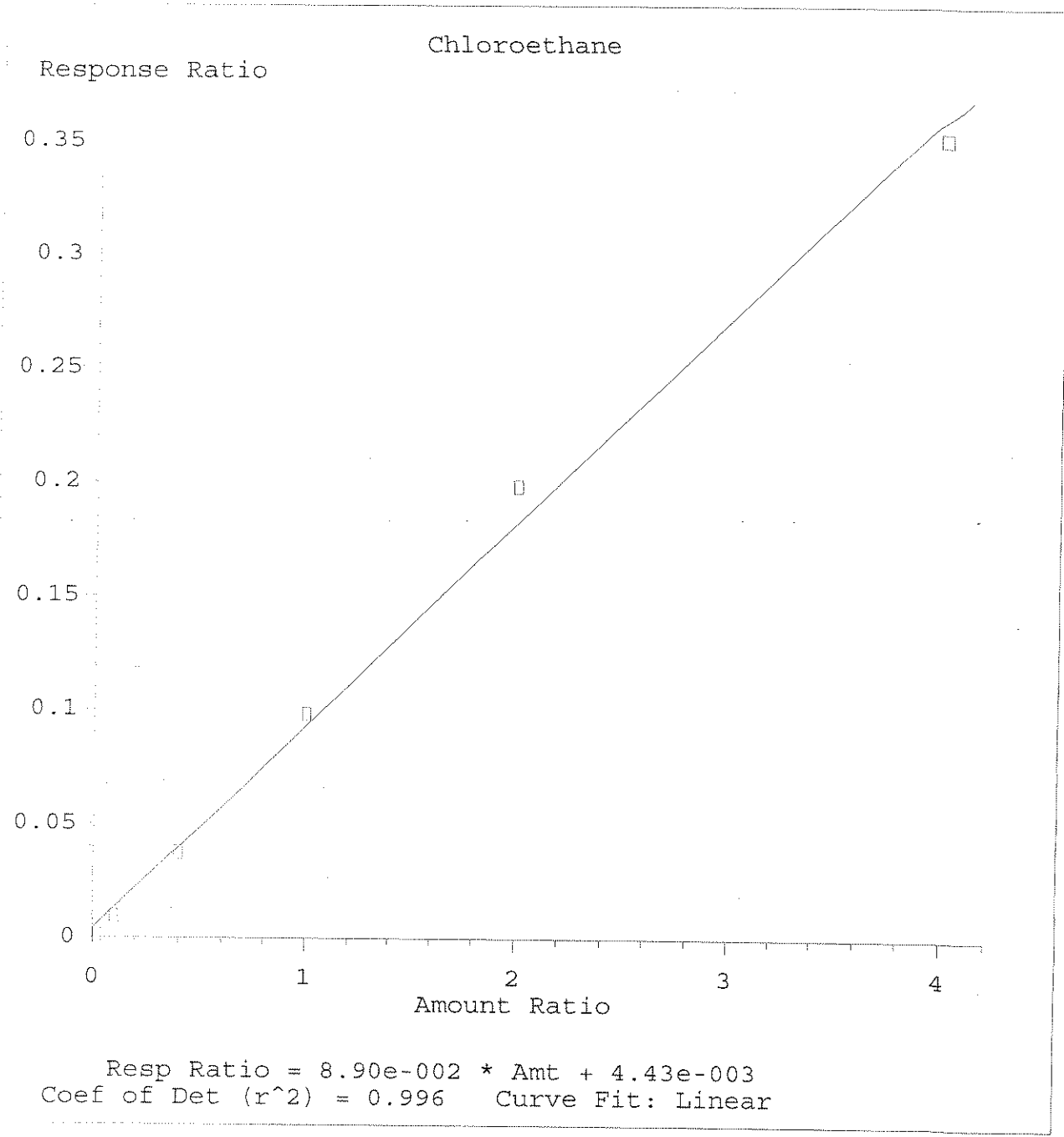
Resp Ratio = 2.63e-001 \* Amt - 8.29e-003  
Coef of Det (r<sup>2</sup>) = 0.999    Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\HI062706.M  
Calibration Table Last Updated: Wed Jun 28 07:22:38 2006

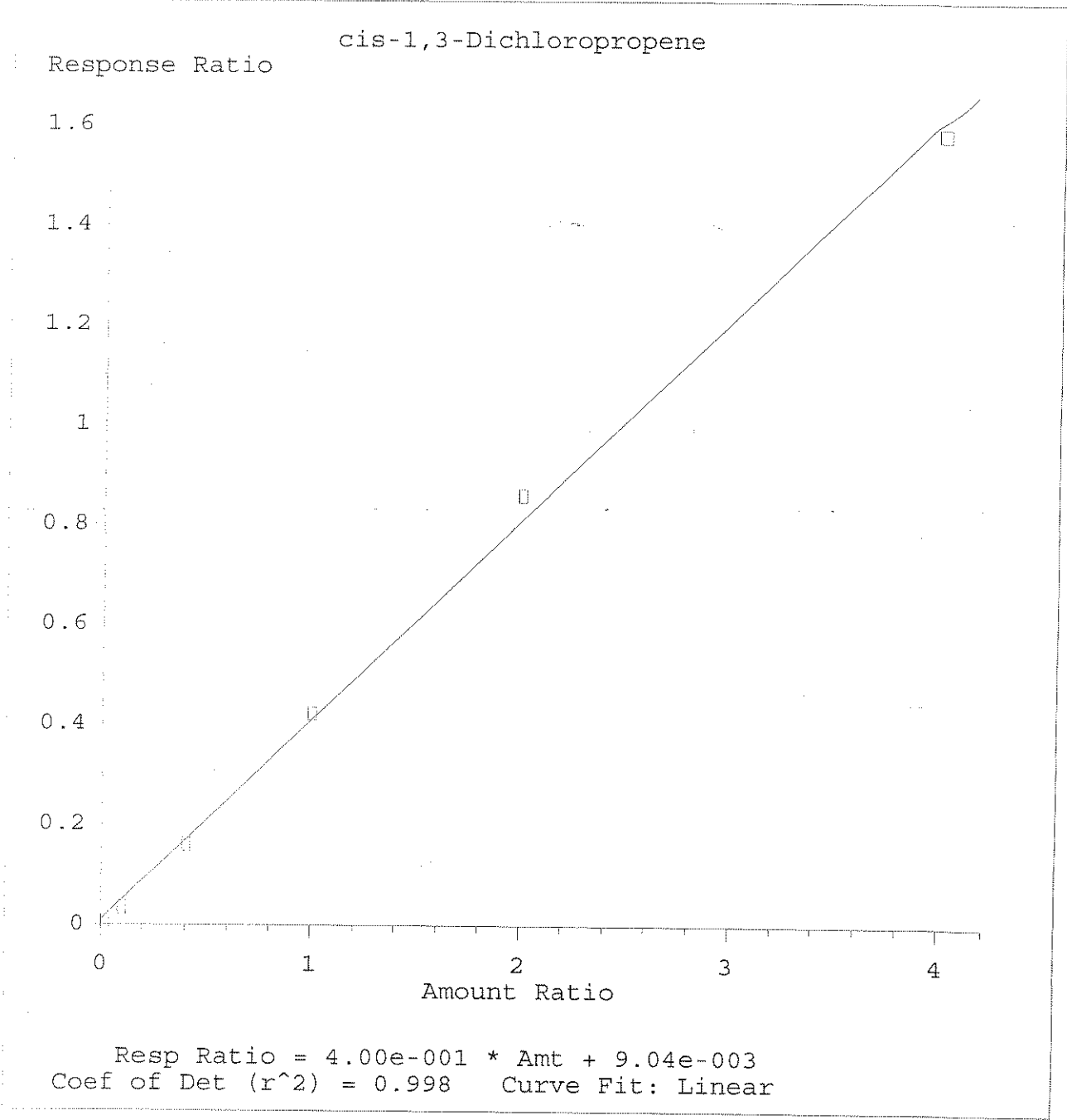


Resp Ratio =  $3.62e-001 * Amt + 5.03e-003$   
Coef of Det ( $r^2$ ) = 0.998    Curve Fit: Linear

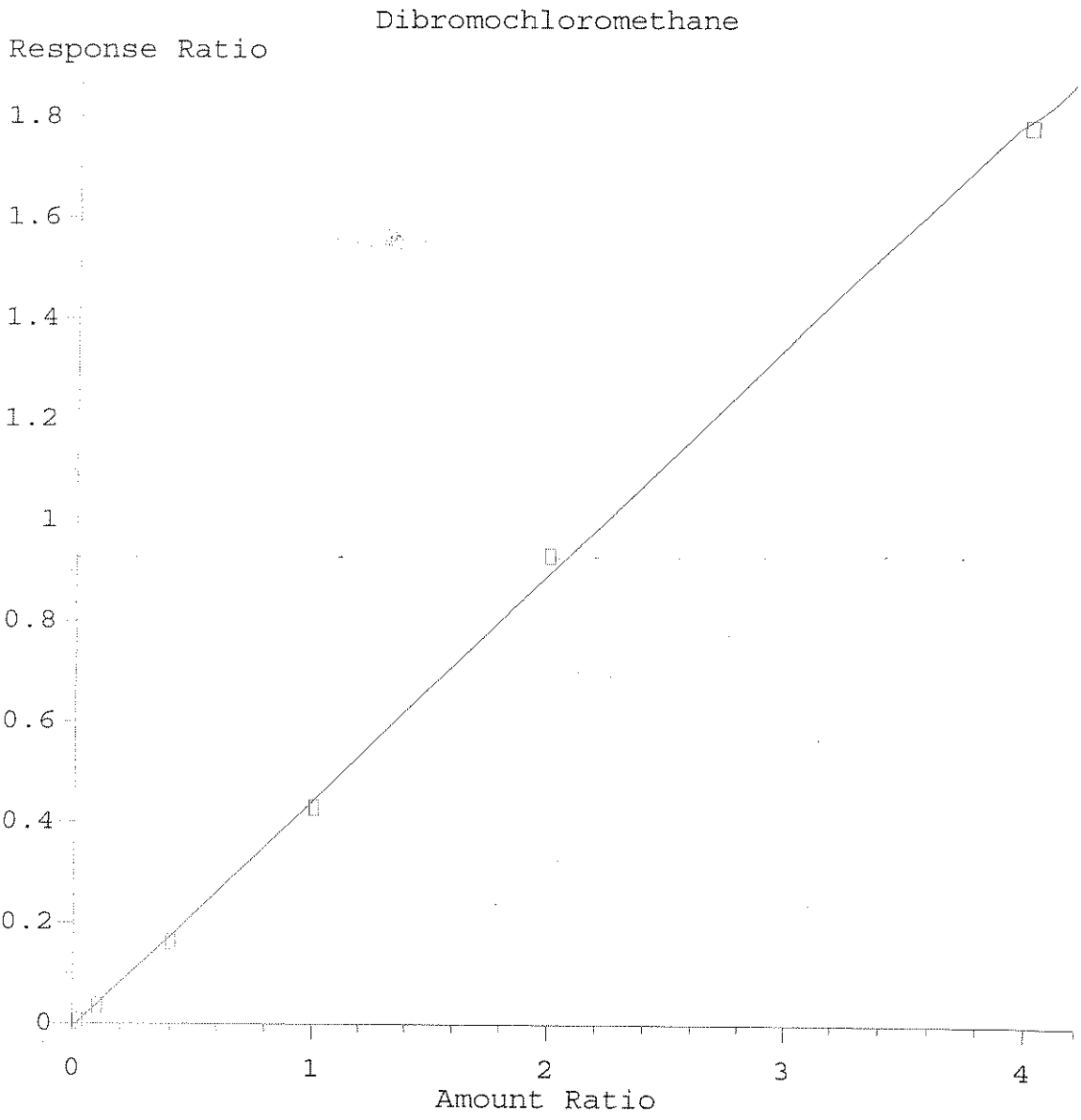
Method Name: C:\HPCHEM\1\METHODS\HI062706.M  
Calibration Table Last Updated: Wed Jun 28 07:10:08 2006



Method Name: C:\HPCHEM\1\METHODS\HI062706.M  
Calibration Table Last Updated: Wed Jun 28 06:51:34 2006

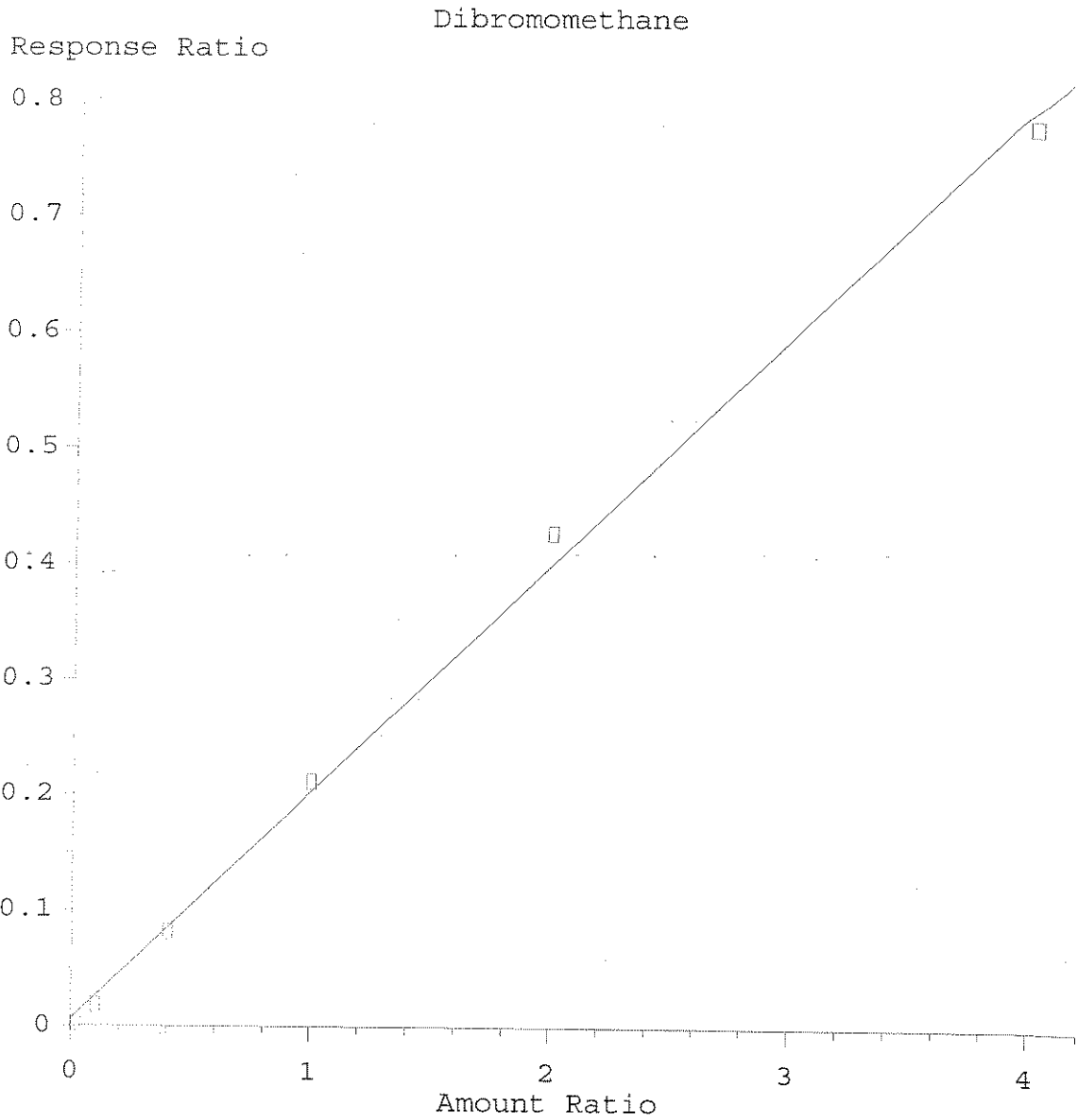


Method Name: C:\HPCHEM\1\METHODS\HI062706.M  
Calibration Table Last Updated: Wed Jun 28 07:19:51 2006



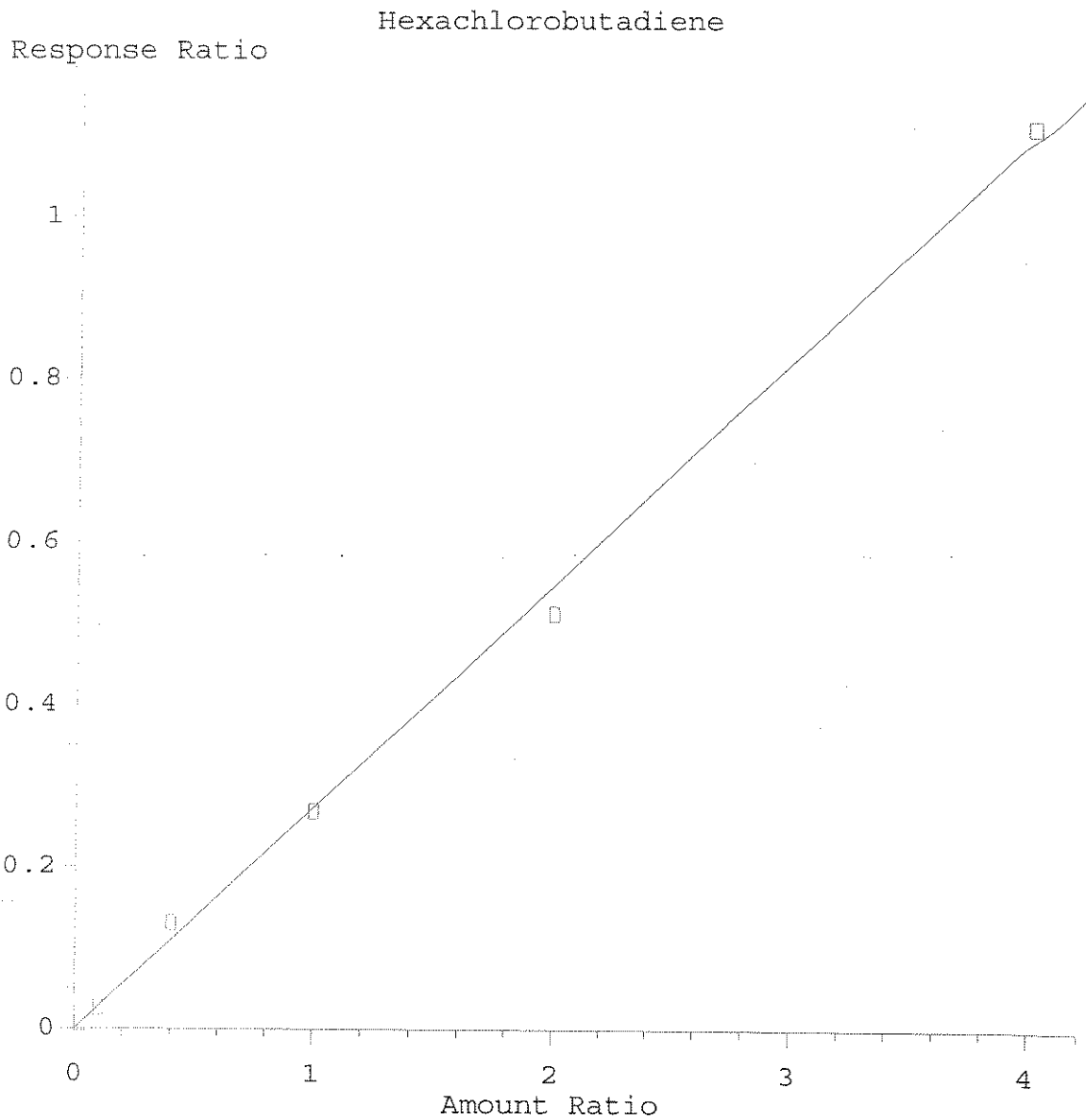
Resp Ratio =  $4.51e-001 * Amt - 7.46e-003$   
Coef of Det ( $r^2$ ) = 0.999    Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\HI062706.M  
Calibration Table Last Updated: Wed Jun 28 07:21:28 2006



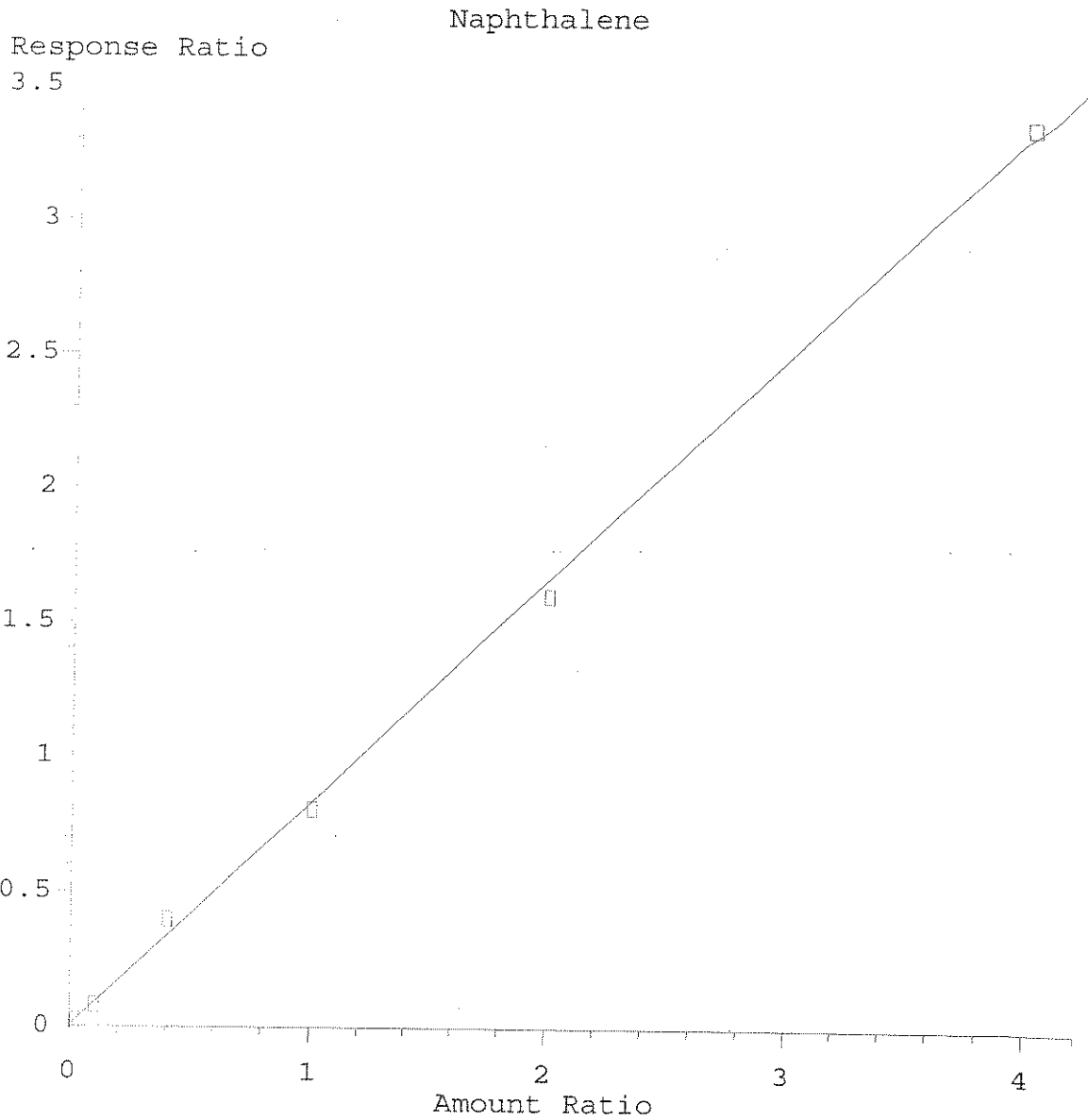
Resp Ratio = 1.97e-001 \* Amt + 6.48e-003  
Coef of Det (r<sup>2</sup>) = 0.997    Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\HI062706.M  
Calibration Table Last Updated: Wed Jun 28 07:17:47 2006



Resp Ratio = 2.74e-001 \* Amt - 7.36e-004  
Coef of Det (r<sup>2</sup>) = 0.998    Curve Fit: Linear

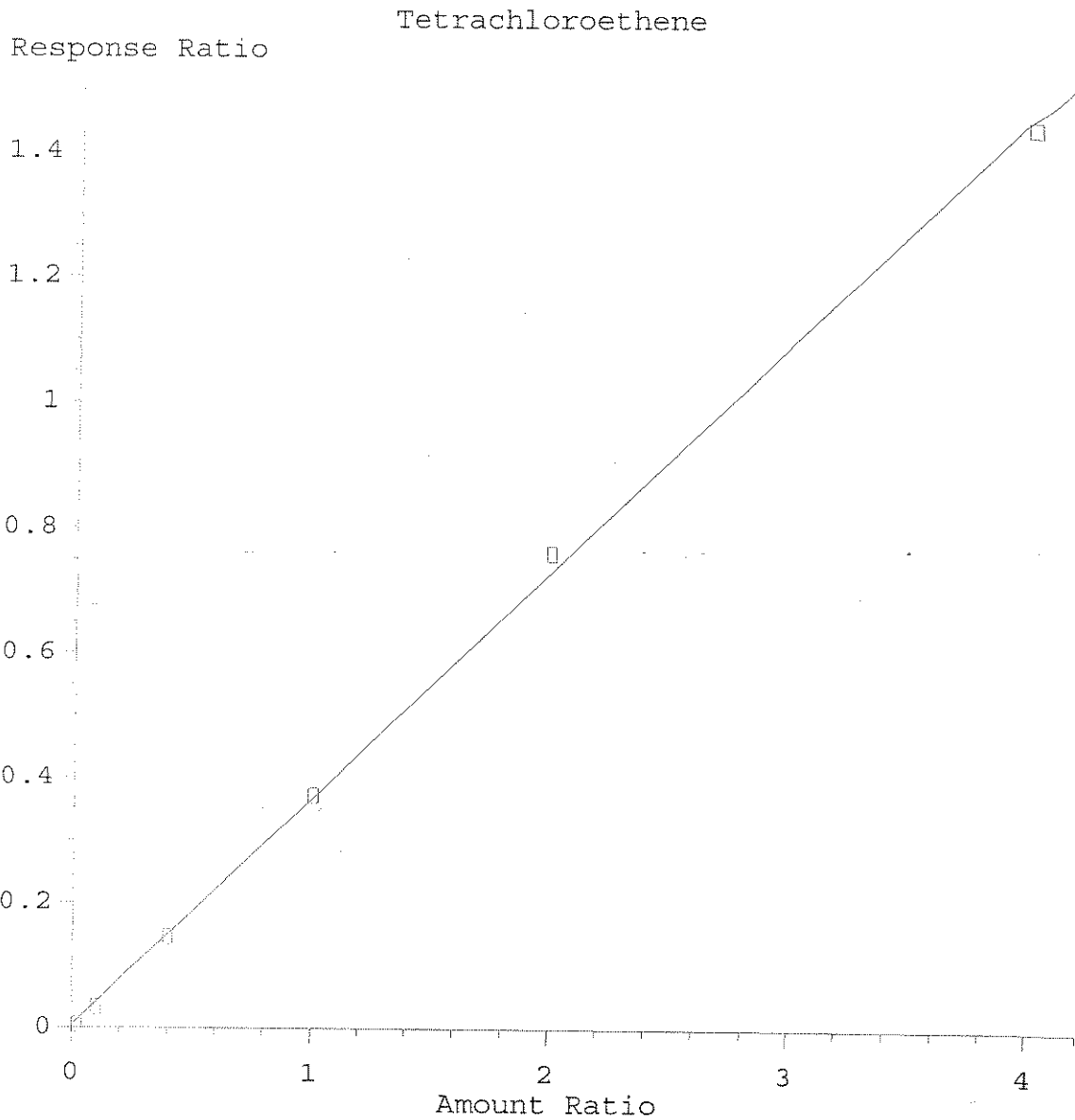
Method Name: C:\HPCHEM\1\METHODS\HI062706.M  
Calibration Table Last Updated: Wed Jun 28 07:24:47 2006



Resp Ratio =  $8.29e-001 * Amt + 3.45e-003$   
Coef of Det ( $r^2$ ) = 0.999    Curve Fit: Linear

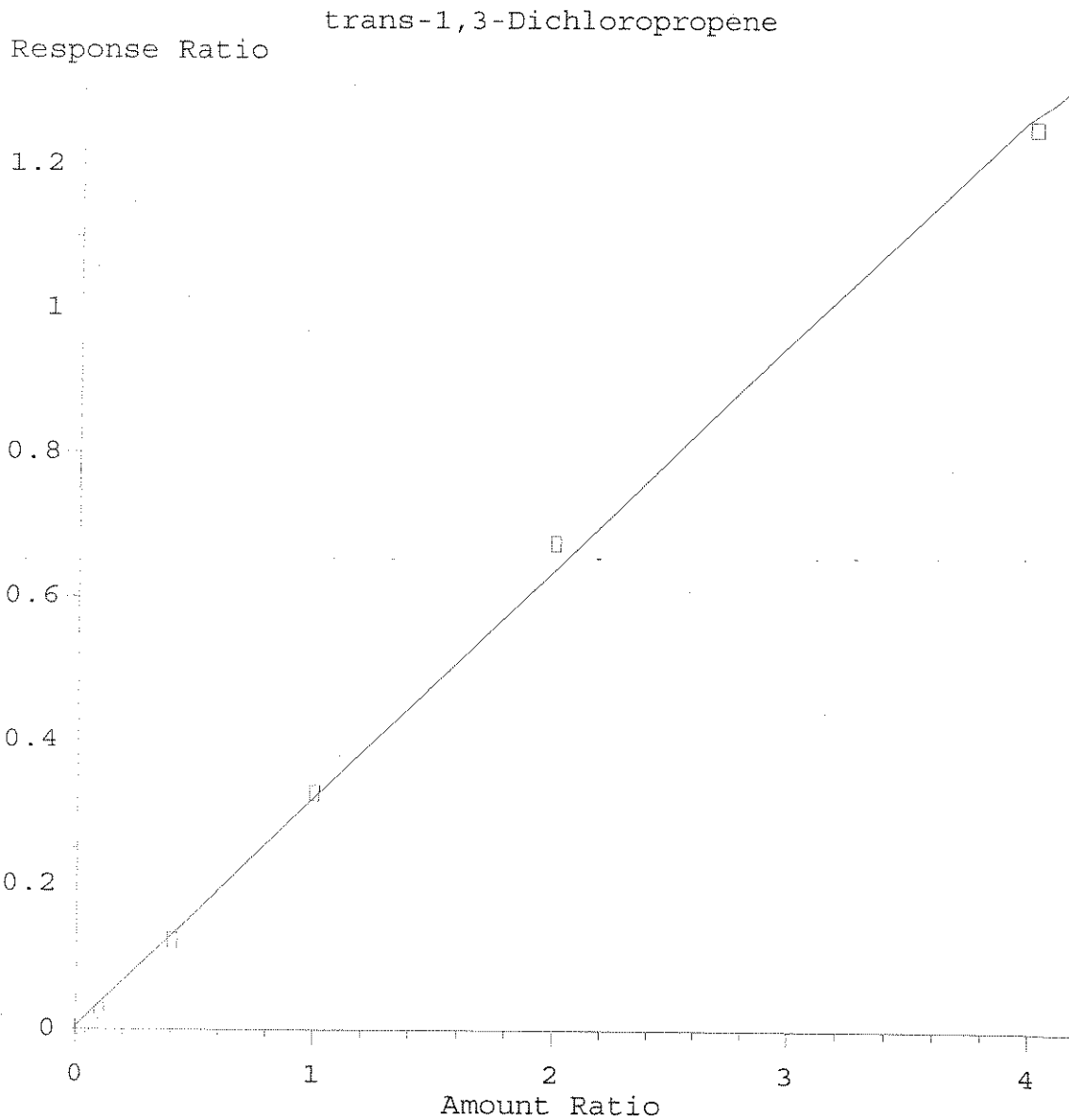
Method Name: C:\HPCHEM\1\METHODS\HI062706.M  
Calibration Table Last Updated: Wed Jun 28 07:25:06 2006





Resp Ratio =  $3.64e-001 * Amt + 4.28e-003$   
Coef of Det ( $r^2$ ) = 0.999    Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\HI062706.M  
Calibration Table Last Updated: Wed Jun 28 07:20:48 2006



Resp Ratio =  $3.17e-001 * Amt + 4.02e-003$   
Coef of Det ( $r^2$ ) = 0.998 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\HI062706.M  
Calibration Table Last Updated: Wed Jun 28 07:20:19 2006

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1\_MA\MA0606\MA062706\M1041046.D Vial : 9  
 Acq On : 27 Jun 106 7:32 pm Operator : RES  
 Sample : BPF0223-SCV1 Inst : VOA MASS  
 Misc : Multiplr : 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M  
 Title : Element ID: 0606001  
 Last Update : Wed Jun 28 07:34:21 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Fluorobenzene	1.000	1.000	0.0	109	0.00
2	Dichlorodifluoromethane	0.432	0.421	2.6	96	0.00
3	Chloromethane	0.277	0.246	10.9	95	-0.01
4	Vinyl Chloride	0.238	0.234	1.4	97	0.00
5	Bromomethane	0.228	0.216	5.1	107	0.00
6	Chloroethane	0.087	0.098	-13.0	109	0.00
7	Trichlorofluoromethane	0.478	0.471	1.3	101	0.01
8	Diethyl ether	0.140	0.138	0.8	102	-0.01
9	Acrolein	0.022	0.010	53.6#	62	0.00
10	1,1,2-Trichloro-1,2,2-trifl	0.444	0.437	1.6	98	0.00
11	Acetone	0.011	0.008	28.7	101	-0.01
12	Iodomethane	0.642	0.636	1.0	108	0.00
13	Carbon Disulfide	0.626	0.629	-0.5	100	0.00
14 M	1,1-Dichloroethene	0.220	0.241	-9.7	107	0.00
15	Allyl Chloride	0.369	0.343	7.1	94	0.00
16	Methyl Acetate	0.104	0.108	-4.0	121	-0.01
17	Methylene Chloride	0.252	0.255	-1.3	102	0.00
18	Methyl tert-Butyl Ether	0.444	0.437	1.6	102	0.00
19	Acrylonitrile	0.035	0.032	8.7	93	-0.01
20	trans-1,2-Dichloroethene	0.254	0.264	-3.6	103	0.00
21	1,1-Dichloroethane	0.407	0.404	0.7	100	-0.01
22	Vinyl Acetate	0.761	0.657	13.7	88	0.00
23	Chloroprene	0.287	0.000	100.0#	0#	-0.02
24	Di-isopropyl ether	0.919	0.905	1.5	103	-0.01
25	Ethyl tertiary-butyl ether	0.685	0.659	3.7	99	0.00
26	2-Butanone	0.011	0.010	8.4	93	-0.02
27	cis-1,2 Dichloroethene	0.247	0.263	-6.6	108	0.00
28	2,2-Dichloropropane	0.362	0.326	10.1	94	0.00
29	Methyl Acrylate	0.122	0.113	7.7	97	-0.01
30	Bromochloromethane	0.149	0.156	-4.8	103	0.00
31	Methacrylonitrile	0.077	0.070	9.8	99	-0.01
32	Tetrahydrofuran	0.031	0.028	9.7	102	-0.01
33	Chloroform	0.446	0.440	1.4	103	0.00
34 S	Dibromofluoromethane (SURR)	0.437	0.402	8.0	93	0.00
35	1,1,1-Trichloroethane	0.393	0.396	-1.0	100	0.00
36	Cyclohexane	0.228	0.219	4.1	94	0.01
37	1-Chlorobutane	0.487	0.500	-2.8	110	0.00
38	1,1-Dichloropropene	0.301	0.297	1.5	95	0.00
39	Carbon Tetrachloride	0.332	0.350	-5.6	100	0.00
40 M	Benzene	0.659	0.704	-6.9	103	0.00
41 S	1,2-Dichloroethane-d4 (SURR)	0.191	0.166	13.4	86	0.00
42	1,2-Dichloroethane	0.232	0.212	8.4	99	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1\_MA\MA0606\MA062706\M1041046.D Vial : 9  
 Acq On : 27 Jun 106 7:32 pm Operator: RES  
 Sample : BPF0223-SCV1 Inst : VOA MASS  
 Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M  
 Title : Element ID: 0606001  
 Last Update : Wed Jun 28 07:34:21 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
43	Tertiary-amyl methyl ether	0.593	0.571	3.8	100	0.00
44 M	Trichloroethene	0.329	0.327	0.7	103	0.00
45	Methyl Cyclohexane	0.274	0.283	-3.0	104	0.00
46	1,2-Dichloropropane	0.265	0.264	0.4	99	0.00
47	Dibromomethane	0.187	0.198	-5.8	102	0.00
48	Methyl Methacrylate	0.164	0.157	4.4	98	-0.01
49	1,4-Dioxane	0.005	0.001	78.8#	88	0.01
50	Bromodichloromethane	0.436	0.458	-5.2	106	0.00
51	2-Nitropropane	0.033	0.031	4.8	100	0.00
52	2-Chloroethyl vinyl ether	0.110	0.021	80.6#	19#	0.00
53	4-Methyl-2-Pentanone	0.063	0.060	4.8	97	0.00
54	cis-1,3-Dichloropropene	0.377	0.374	0.9	97	0.00
55	Toluene	0.549	0.557	-1.4	101	0.00
56	trans-1,3-Dichloropropene	0.290	0.267	7.6	89	0.00
57	1,1,2-Trichloroethane	0.171	0.175	-2.1	101	0.00
58 I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00
59 S	Toluene-d8 (SURR)	1.053	1.004	4.6	92	0.00
60	2-Hexanone	0.126	0.121	4.0	98	0.00
61	Ethyl Methacrylate	0.345	0.347	-0.6	100	0.00
62	1,3-Dichloropropane	0.386	0.407	-5.6	101	0.00
63	Tetrachloroethene	0.340	0.360	-5.9	99	0.00
64	Dibromochloromethane	0.396	0.426	-7.5	102	0.00
65	1,2-Dibromoethane	0.349	0.365	-4.7	97	0.00
66	1-Chlorohexane	0.416	0.411	1.1	98	0.00
67 M	Chlorobenzene	0.843	0.868	-3.0	98	0.00
68	1,1,1,2-Tetrachloroethane	0.355	0.376	-5.8	98	0.00
69	Ethylbenzene	1.233	1.296	-5.2	101	0.00
70	Xylene P,M	0.527	0.546	-3.7	100	0.01
71	Xylene O	0.502	0.532	-6.1	100	0.00
72	Styrene	0.877	0.931	-6.2	100	0.00
73	Bromoform	0.207	0.238	-15.2	100	0.00
74	cis1,4-Dichloro-2-butene	0.046	0.000	100.0#	0#	-11.84#
75 S	Bromofluorobenzene (SURR)	0.617	0.567	8.1	90	0.00
76 I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	103	0.00
77	Isopropylbenzene	2.684	2.594	3.3	92	0.00
78	Trans-1,4-Dichloro-2-Butene	0.131	0.115	12.6	94	0.00
79	1,2,3-Trichloropropane	0.552	0.549	0.6	97	-0.01
80	Bromobenzene	0.784	0.838	-6.9	103	0.00
81	1,1,2,2-Tetrachloroethane	0.667	0.656	1.6	98	0.00
82	n-Propylbenzene	2.859	2.959	-3.5	97	0.00

(#) = Out of Range

532

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1\_MA\MA0606\MA062706\M1041046.D Vial : 9  
 Acq On : 27 Jun 106 7:32 pm Operator: RES  
 Sample : BPF0223-SCV1 Inst : VOA MASS  
 Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M  
 Title : Element ID: 0606001  
 Last Update : Wed Jun 28 07:34:21 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	2-Chlorotoluene	2.062	2.096	-1.6	98	0.00
84	4-Chlorotoluene	2.277	2.235	1.8	97	0.00
85	1,3,5-Trimethylbenzene	2.079	2.130	-2.4	100	0.00
86	tert-Butylbenzene	2.542	2.654	-4.4	100	0.00
87	Pentachloroethane	2.542	2.654	-4.4	100	0.00
88	1,2,4-Trimethylbenzene	2.096	2.196	-4.8	100	0.00
89	sec-Butylbenzene	2.559	2.618	-2.3	99	0.00
90	1,3 Dichlorobenzene	1.332	1.351	-1.5	97	0.00
91	4-Isopropyltoluene	2.066	2.101	-1.7	98	0.00
92	1,4 Dichlorobenzene	1.435	1.423	0.9	96	0.00
93	n-Butylbenzene	1.669	1.649	1.2	99	0.00
94	1,2 Dichlorobenzene	1.153	1.192	-3.3	99	0.00
95	Hexachloroethane	0.454	0.455	-0.2	101	0.00
96	1,2-Dibromo-3-Chloropropane	0.092	0.086	6.2	96	0.00
97	1,2,4-Trichlorobenzene	0.586	0.581	0.9	103	0.00
98	Hexachlorobutadiene	0.290	0.281	3.3	108	0.00
99	Naphthalene	0.893	0.822	7.9	105	0.00
100	1,2,3-Trichlorobenzene	0.461	0.423	8.2	110	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

M1041046.D HI062706.M

533  
 Thu Jun 29 10:58:52 2006

Quantitation Report

Data File : Q:\VOA\MS1\_MA\MA0606\MA062706\M1041046.D Vial: 9  
 Acq On : 27 Jun 106 7:32 pm Operator: RES  
 Sample : BPF0223-SCV1 Inst : VOA MASS  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 29 10:57 19106

Method : C:\HPCHEM\1\METHODS\HI062706.M  
 Title : Element ID: 0606001  
 Last Update : Wed Jun 28 07:34:21 2006  
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Fluorobenzene	6.07	96	3263352	25.00	ug/l	0.00
58) Chlorobenzene-d5	10.13	117	2603933	25.00	ug/l	0.00
76) 1,4 Dichlorobenzene-D4	13.82	152	1234582	25.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
34) Dibromofluoromethane (SURR)	5.31	111	1310921	23.00	ug/l	91.99%
41) 1,2-Dichloroethane-d4 (SURR)	5.69	65	540117	21.65	ug/l	86.59%
59) Toluene-d8 (SURR)	8.08	98	2615648	23.84	ug/l	95.36%
75) Bromofluorobenzene (SURR)	11.95	95	1476264	22.97	ug/l	91.89%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.56	85	1373407	24.35	ug/l	98
3) Chloromethane	1.74	50	803761	22.27	ug/l	95
4) Vinyl Chloride	1.84	62	764915	24.66	ug/l	98
5) Bromomethane	2.15	94	705855	23.72	ug/l	100
6) Chloroethane	2.24	64	319651	26.26	ug/l	100
7) Trichlorofluoromethane	2.48	101	1538268	24.67	ug/l	100
8) Diethyl ether	2.79	59	451757	24.80	ug/l	97
9) Acrolein	2.93	56	33763	12.05	ug/l	87
10) 1,1,2-Trichloro-1,2,2-trif	2.98	101	1426230	24.61	ug/l	99
11) Acetone	3.08	58	123466	112.04	ug/l	100
12) Iodomethane	3.13	142	2074287	24.76	ug/l	100
13) Carbon Disulfide	3.18	76	2051290	25.12	ug/l	100
14) 1,1-Dichloroethene	2.98	96	787113	25.87	ug/l	98
15) Allyl Chloride	3.34	41	1118062	23.23	ug/l	100
16) Methyl Acetate	3.39	43	351810	26.00	ug/l	98
17) Methylene Chloride	3.47	84	832892	25.33	ug/l	95
18) Methyl tert-Butyl Ether	3.76	73	1427628	24.61	ug/l	98
19) Acrylonitrile	3.74	53	103746	22.82	ug/l	94
20) trans-1,2-Dichloroethene	3.74	96	860439	25.91	ug/l	99
21) 1,1-Dichloroethane	4.16	63	1319290	24.83	ug/l	100
22) Vinyl Acetate	4.24	43	2143627	21.57	ug/l	99
24) Di-isopropyl ether	4.25	45	2952553	24.62	ug/l	90
25) Ethyl tertiary-butyl ether	4.64	59	2150905	24.07	ug/l	98
26) 2-Butanone	4.82	72	160171	114.54	ug/l	95
27) cis-1,2 Dichloroethene	4.77	96	859053	26.65	ug/l	96
28) 2,2-Dichloropropane	4.76	77	1062695	22.48	ug/l	98
29) Methyl Acrylate	4.92	55	367967	23.07	ug/l	95
30) Bromochloromethane	5.04	128	510491	24.06	ug/l	95
31) Methacrylonitrile	5.05	41	227986	22.56	ug/l	97
32) Tetrahydrofuran	5.10	42	91317	22.57	ug/l	95
33) Chloroform	5.13	83	1434874	24.65	ug/l	95
35) 1,1,1-Trichloroethane	5.31	97	1293886	25.24	ug/l	98
36) Cyclohexane	5.39	56	713232	23.97	ug/l	m 51

(#) = qualifier out of range (m) = manual integration  
 M1041046.D HI062706.M Thu Jun 29 10:58:02 2006

Quantitation Report

Data File : Q:\VOA\MS1\_MA\MA0606\MA062706\M1041046.D  
 Acq On : 27 Jun 106 7:32 pm  
 Sample : BPF0223-SCV1  
 Misc :  
 Quant Time: Jun 29 10:57 19106

Vial: 9  
 Operator: RES  
 Inst : VOA MASS  
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M  
 Title : Element ID: 0606001  
 Last Update : Wed Jun 28 07:34:21 2006  
 Response via : Multiple Level Calibration

*X/103 6/30/06*

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
37) 1-Chlorobutane	5.44	56	1632399	25.69	ug/l	99
38) 1,1-Dichloropropene	5.49	75	967865	24.63	ug/l	98
39) Carbon Tetrachloride	5.49	117	1143609	23.85	ug/l	99
40) Benzene	5.73	78	2297072	24.87	ug/l	100
42) 1,2-Dichloroethane	5.78	62	693323	22.89	ug/l	99
43) Tertiary-amyl methyl ether	5.89	73	1863061	24.05	ug/l	98
44) Trichloroethene	6.50	95	1065704	24.84	ug/l	96
45) Methyl Cyclohexane	6.72	83	922018	25.75	ug/l	97
46) 1,2-Dichloropropane	6.80	63	860113	24.89	ug/l	97
47) Dibromomethane	6.94	93	645698	24.30	ug/l	96
48) Methyl Methacrylate	6.96	41	511111	23.89	ug/l	99
49) 1,4-Dioxane	7.02	88	70709	340.79	ug/l	98
50) Bromodichloromethane	7.15	83	1495889	26.31	ug/l	97
51) 2-Nitropropane	7.47	43	101548	23.79	ug/l	90
52) 2-Chloroethyl vinyl ether	7.56	63	348375	19.00	ug/l	96
53) 4-Methyl-2-Pentanone	7.98	58	976284	119.02	ug/l	91
54) cis-1,3-Dichloropropene	7.73	75	1219814	22.78	ug/l	98
55) Toluene	8.17	92	1816652	25.35	ug/l	99
56) trans-1,3-Dichloropropene	8.49	75	872878	20.78	ug/l	98
57) 1,1,2-Trichloroethane	8.75	83	571347	25.52	ug/l	96
60) 2-Hexanone	9.13	43	1570771	119.98	ug/l	98
61) Ethyl Methacrylate	8.63	69	903799	25.15	ug/l	98
62) 1,3-Dichloropropane	8.97	76	1060768	26.40	ug/l	97
63) Tetrachloroethene	8.91	164	936223	24.43	ug/l	95
64) Dibromochloromethane	9.30	129	1108938	24.00	ug/l	98
65) 1,2-Dibromoethane	9.46	107	951366	23.60	ug/l	100
66) 1-Chlorohexane	10.16	91	1071444	24.74	ug/l	98
67) Chlorobenzene	10.17	112	2260123	25.75	ug/l	98
68) 1,1,1,2-Tetrachloroethane	10.30	131	978812	23.85	ug/l	97
69) Ethylbenzene	10.34	91	3375967	26.30	ug/l	99
70) Xylene P,M	10.53	106	2845096	51.84	ug/l	100
71) Xylene O	11.13	106	1385728	26.52	ug/l	100
72) Styrene	11.16	104	2424602	26.55	ug/l	98
73) Bromoform	11.44	173	620164	23.43	ug/l	98
77) Isopropylbenzene	11.72	105	3202873	24.16	ug/l	100
78) Trans-1,4-Dichloro-2-Buten	12.31	53	141475	21.86	ug/l	92
79) 1,2,3-Trichloropropane	12.27	75	678290	23.23	ug/l	94
80) Bromobenzene	12.17	156	1034594	26.73	ug/l	96
81) 1,1,2,2-Tetrachloroethane	12.22	83	809473	24.59	ug/l	98
82) n-Propylbenzene	12.37	91	3652789	25.87	ug/l	99
83) 2-Chlorotoluene	12.49	91	2587120	25.40	ug/l	99
84) 4-Chlorotoluene	12.67	91	2759721	24.54	ug/l	100
85) 1,3,5-Trimethylbenzene	12.66	105	2629398	25.61	ug/l	98
86) tert-Butylbenzene	13.19	119	3276993	26.11	ug/l	100

(#) = qualifier out of range (m) = manual integration  
 M1041046.D HI062706.M Thu Jun 29 10:58:04 2006

## Quantitation Report

Data File : Q:\VOA\MS1\_MA\MA0606\MA062706\M1041046.D Vial: 9  
Acq On : 27 Jun 106 7:32 pm Operator: RES  
Sample : BPF0223-SCV1 Inst : VOA MASS  
Misc : Multiplr: 1.00  
Quant Time: Jun 29 10:57 19106

Method : C:\HPCHEM\1\METHODS\HI062706.M  
Title : Element ID: 0606001  
Last Update : Wed Jun 28 07:34:21 2006  
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
87) Pentachloroethane	13.19	119	3276993	26.11	ug/l	98
88) 1,2,4-Trimethylbenzene	13.27	105	2711348	26.20	ug/l	98
89) sec-Butylbenzene	13.54	105	3231924	25.57	ug/l	99
90) 1,3 Dichlorobenzene	13.70	146	1668435	25.37	ug/l	99
91) 4-Isopropyltoluene	13.80	119	2593503	25.42	ug/l	100
92) 1,4 Dichlorobenzene	13.86	146	1756274	24.78	ug/l	97
93) n-Butylbenzene	14.45	91	2035992	24.71	ug/l	99
94) 1,2 Dichlorobenzene	14.44	146	1471576	25.84	ug/l	99
95) Hexachloroethane	14.78	117	561537	25.04	ug/l	97
96) 1,2-Dibromo-3-Chloropropan	15.44	75	106075	23.44	ug/l	90
97) 1,2,4-Trichlorobenzene	16.27	180	716816	24.78	ug/l	94
98) Hexachlorobutadiene	16.44	225	346558	25.67	ug/l	99
99) Naphthalene	16.50	128	1014966	24.69	ug/l	100
100) 1,2,3-Trichlorobenzene	16.75	180	522593	25.65	ug/l	98

(#) = qualifier out of range (m) = manual integration  
M1041046.D HI062706.M Thu Jun 29 10:58:05 2006



## ANALYSIS SEQUENCE

BPF0228

Instrument: VMS1

Calibration ID: 0606042

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0228-TUNI	QC		1		6F28037		
BPF0228-CCVI	QC		2		6F28038	6F22057	
BF62806-BLK1	QC		3			6F22057	
BF62806-BS1	QC		4			6F22057	
BF62806-BSD1	QC		5			6F22057	
BF62806-MS1	QC		6			6F22057	
BF62806-MSD1	QC		7			6F22057	
0606427-02	MA-MCP 5035/8260 ppm V	A	8			6F22057	Gannett Fleming
0606427-01	XMA MCP 5035/8260 ppm	A	9			6F22057	Gannett Fleming
0606427-01	VOC: x5035/8260 ppb VOA	A	10			6F22057	Gannett Fleming
0606427-01	MA-MCP 5035/8260 ppm V	A	11			6F22057	Gannett Fleming
0606427-01	TB: 5035/8260 ppb VOA	A	12			6F22057	Gannett Fleming
0606383-10	VOC: x5035/8260 ppb VOA	E	13			6F22057	MACTEC Engineering & Consulting, Inc
0606383-06	VOC: x5035/8260 ppb VOA	C	14			6F22057	MACTEC Engineering & Consulting, Inc
0606383-05	VOC: x5035/8260 ppb VOA	E	15			6F22057	MACTEC Engineering & Consulting, Inc
0606374-13	VOC: x5035/8260 ppb VOA	D	16			6F22057	MACTEC Engineering & Consulting, Inc
0606374-11	VOC: x5035/8260 ppb VOA	D	17			6F22057	MACTEC Engineering & Consulting, Inc
0606374-09	VOC: x5035/8260 ppb VOA	D	18			6F22057	MACTEC Engineering & Consulting, Inc
0606374-06	VOC: x5035/8260 ppb VOA	D	19			6F22057	MACTEC Engineering & Consulting, Inc
0606374-05	VOC: x5035/8260 ppb VOA	D	20			6F22057	MACTEC Engineering & Consulting, Inc
0606373-15	VOC: x5035/8260 ppb VOA	D	21			6F22057	MACTEC Engineering & Consulting, Inc
0606373-14	VOC: x5035/8260 ppb VOA	D	22			6F22057	MACTEC Engineering & Consulting, Inc
0606373-11	TB: 5035/8260 ppb VOA	A	23			6F22057	MACTEC Engineering & Consulting, Inc
0606373-08	VOC: x5035/8260 ppb VOA	D	24			6F22057	MACTEC Engineering & Consulting, Inc
0606373-01	VOC: x5035/8260 ppb VOA	D	25			6F22057	MACTEC Engineering & Consulting, Inc
0606360-01	VOC: x5035/8260 ppb VOA	B	26			6F22057	Vertex

Samples Loaded By

Date

Data Prepared By

Date

# ESS LABORATORY MS-1 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/28/06	3	M1 041049	BF62806 -BS1	HF062706	6F28039 100X	per
	4	M1 50	BF62806 -DS01		6F28039	
	5	M1 51	TB			
	6	M1 52	TB			
	7	M1 53	BF62806 -B1K1			
	8	M1 54	0606 427-02		15/S TB	D1711
	9	M1 55	0606 373-11		15/S TB	D4023
	10	M1 56	0606 360-01		12.3/S	D4006
	11	M1 57	0606 373-01		7.6/S	D4022 *P4002
	12	M1 58	-08		8.3/S	D3876
	13	M1 59	-14		20.5/S	D3866
	14	M1 60	0606 373-15		18.8/S	D3887
	15	M1 61	0606 374-05		23.1/S	D3859
6/28/06	16	M1 62	0606 374-06	HF062706	24.9/S 100X	per

Run Sequence Confirmation

Surrogate: 6F22055 / soil 6F2050

On-column IS: 6F22057 / 6F27049

# ESS LABORATORY MS-1 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/28/06	17	M1 041063	0606374-09	H062706	9.9/5 100X	ps
	18	M1 64	-11		11.6/5	
	19	M1 65	-12		11.6/5	
	20	M1 66	0606374-13		07.2/5	
	21	M1 67	0606393-05		11.9/5	
	22	M1 68	-06		19.2/5	
	23	M1 69	0606383-10		15.7/5	
	24	M1 70	0606427-01		21.8/5 100X	
	25	M1 71	BP62806-MS1		0.606427-01 100µl/100µl	
6/28/06	26	M1 72	BP62806-MS1	H062706	0.606427-01 100µl/100µl	ps
6/28/06	1	M1 73	BP60238-MS1		6F29034 6F29034 X	
	2	M1 74	BP60238-CCV1		6F29035	
	3	M1 75	BP62904-MS1		6F29036 100X	
6/28/06	4	M1 76	BP62904-MS1	H062706	6F29036 100X	ps

Run Sequence Confirmation

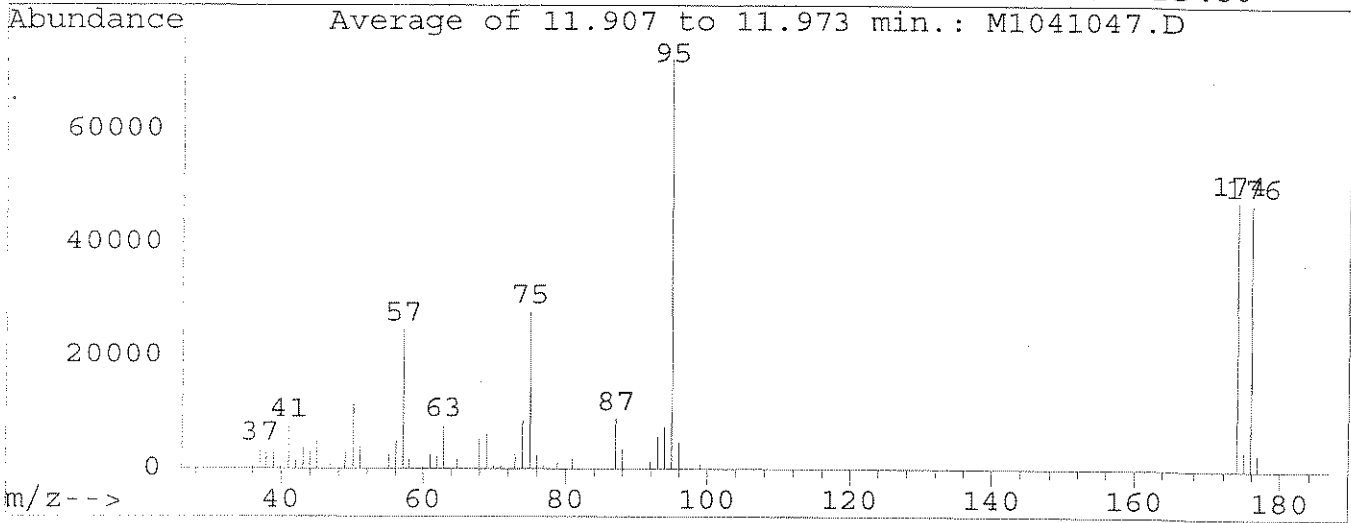
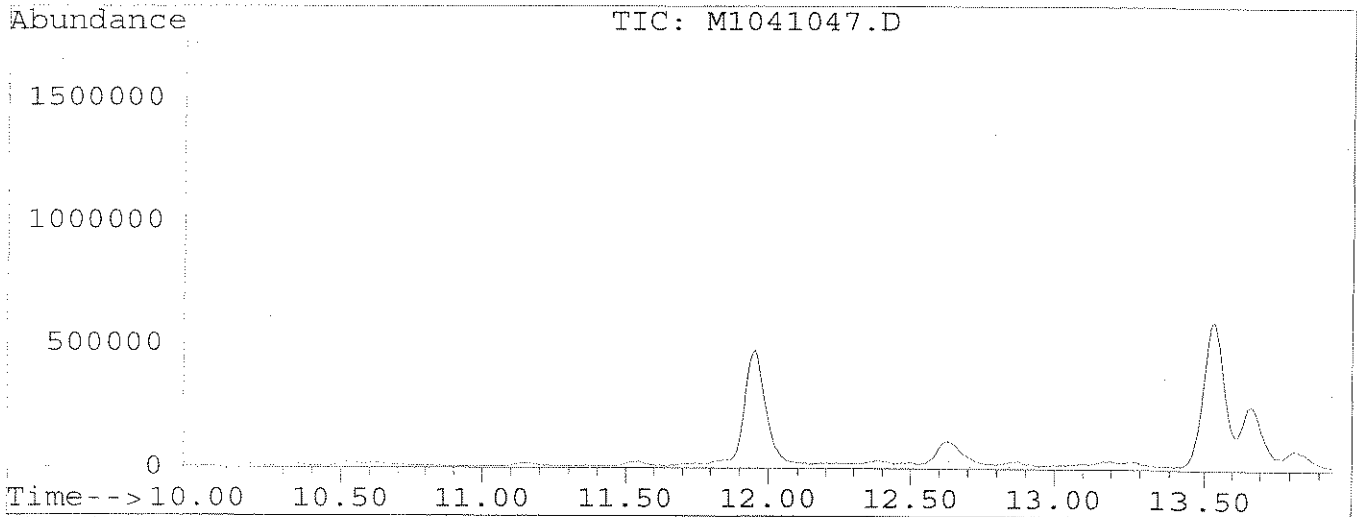
Surrogate: 6F19050  
 On-column IS: 6F27048

20PS 6/29/06

Data File : Q:\VOA\MS1\_MA\MA0606\MA062806\M1041047.D  
 Acq On : 28 Jun 106 7:42 am  
 Sample : BPF0228-TUN1  
 Misc :

Vial: 1  
 Operator: RES  
 Inst : VOA MASS  
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M  
 Title : Element ID: 0606001



Peak Apex is scan: 1316

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.9	11498	PASS
75	95	30	60	38.4	27835	PASS
95	95	100	100	100.0	72540	PASS
96	95	5	9	6.5	4724	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	65.7	47630	PASS
175	174	5	9	7.5	3593	PASS
176	174	95	101	98.9	47083	PASS
177	176	5	9	6.4	3030	PASS

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1\_MA\MA0606\MA062806\M1041048.D Vial : 2  
 Acq On : 28 Jun 106 8:10 am Operator : RES  
 Sample : BPF0228-CCV1 Inst : VOA MASS  
 Misc : Multiplr : 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M  
 Title : Element ID: 0606001  
 Last Update : Wed Jun 28 07:34:21 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
1 I	Fluorobenzene	1.000	1.000	0.0	107	0.00
2	Dichlorodifluoromethane	0.432	0.440	-1.7	98	0.00
3	Chloromethane	0.277	0.302	-9.1	114	-0.01
4	Vinyl Chloride	0.238	0.248	-4.4	101	0.00
5	Bromomethane	0.228	0.182	20.2	88	0.00
6	Chloroethane	0.087	0.089	-2.5	97	0.00
7	Trichlorofluoromethane	0.478	0.464	2.8	98	0.00
8	Diethyl ether	0.140	0.138	0.8	100	0.00
9	Acrolein	0.022	0.020	9.4	118	0.00
10	1,1,2-Trichloro-1,2,2-trifl	0.444	0.459	-3.3	100	0.00
11	Acetone	0.011	0.009	18.7	113	0.01
12	Iodomethane	0.642	0.545	15.1	91	0.01
13	Carbon Disulfide	0.626	0.652	-4.2	101	0.00
14 M	1,1-Dichloroethene	0.220	0.228	-3.9	99	0.00
15	Allyl Chloride	0.369	0.385	-4.4	103	0.00
16	Methyl Acetate	0.104	0.096	7.8	105	0.00
17	Methylene Chloride	0.252	0.248	1.4	97	0.00
18	Methyl tert-Butyl Ether	0.444	0.440	1.0	100	0.00
19	Acrylonitrile	0.035	0.034	2.6	97	0.00
20	trans-1,2-Dichloroethene	0.254	0.260	-2.2	100	0.00
21	1,1-Dichloroethane	0.407	0.412	-1.1	100	0.00
22	Vinyl Acetate	0.761	0.761	-0.0	100	0.00
23	Chloroprene	0.287	0.297	-3.7	100	0.00
24	Di-isopropyl ether	0.919	0.896	2.4	100	0.00
25	Ethyl tertiary-butyl ether	0.685	0.682	0.5	100	0.00
26	2-Butanone	0.011	0.011	1.4	98	0.00
27	cis-1,2 Dichloroethene	0.247	0.246	0.4	98	0.00
28	2,2-Dichloropropane	0.362	0.355	1.8	100	0.00
29	Methyl Acrylate	0.122	0.115	5.6	97	0.00
30	Bromochloromethane	0.149	0.147	1.2	95	0.00
31	Methacrylonitrile	0.077	0.074	5.0	102	0.00
32	Tetrahydrofuran	0.031	0.030	2.1	109	0.02
33	Chloroform	0.446	0.432	3.1	99	0.00
34 S	Dibromofluoromethane (SURR)	0.437	0.437	-0.1	99	0.00
35	1,1,1-Trichloroethane	0.393	0.397	-1.0	98	0.00
36	Cyclohexane	0.228	0.216	5.4	91	0.00
37	1-Chlorobutane	0.487	0.423	13.0	91	0.00
38	1,1-Dichloropropene	0.301	0.299	0.8	94	0.00
39	Carbon Tetrachloride	0.332	0.347	-4.4	97	0.00
40 M	Benzene	0.659	0.660	-0.1	95	0.00
41 S	1,2-Dichloroethane-d4 (SURR)	0.191	0.170	11.2	86	0.00
42	1,2-Dichloroethane	0.232	0.211	9.1	96	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1\_MA\MA0606\MA062806\M1041048.D Vial : 2  
 Acq On : 28 Jun 106 8:10 am Operator : RES  
 Sample : BPF0228-CCV1 Inst : VOA MASS  
 Misc : Multiplr : 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M  
 Title : Element ID: 0606001  
 Last Update : Wed Jun 28 07:34:21 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	Tertiary-amyl methyl ether	0.593	0.595	-0.2	102	0.01
44 M	Trichloroethene	0.329	0.330	-0.4	102	0.00
45	Methyl Cyclohexane	0.274	0.287	-4.7	103	0.00
46	1,2-Dichloropropane	0.265	0.271	-2.2	100	0.00
47	Dibromomethane	0.187	0.193	-3.5	98	0.00
48	Methyl Methacrylate	0.164	0.160	2.4	98	0.00
49	1,4-Dioxane	0.005	0.001	73.1#	110	0.00
50	Bromodichloromethane	0.436	0.438	-0.5	99	0.00
51	2-Nitropropane	0.033	0.036	-10.1	113	0.01
52	2-Chloroethyl vinyl ether	0.110	0.116	-4.9	101	0.00
53	4-Methyl-2-Pentanone	0.063	0.063	-0.6	100	0.00
54	cis-1,3-Dichloropropene	0.377	0.391	-3.6	99	0.00
55	Toluene	0.549	0.551	-0.4	98	0.00
56	trans-1,3-Dichloropropene	0.290	0.306	-5.7	100	0.00
57	1,1,2-Trichloroethane	0.171	0.175	-2.0	99	0.00
58 I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
59 S	Toluene-d8 (SURR)	1.053	1.084	-2.9	98	0.00
60	2-Hexanone	0.126	0.126	-0.0	101	0.00
61	Ethyl Methacrylate	0.345	0.344	0.3	98	0.00
62	1,3-Dichloropropane	0.386	0.408	-5.6	99	0.00
63	Tetrachloroethene	0.340	0.355	-4.6	97	0.00
64	Dibromochloromethane	0.396	0.427	-7.8	101	0.00
65	1,2-Dibromoethane	0.349	0.369	-5.6	97	0.00
66	1-Chlorohexane	0.416	0.422	-1.4	99	0.01
67 M	Chlorobenzene	0.843	0.870	-3.3	97	0.00
68	1,1,1,2-Tetrachloroethane	0.355	0.377	-6.1	98	0.00
69	Ethylbenzene	1.233	1.252	-1.6	97	0.00
70	Xylene P,M	0.527	0.538	-2.0	97	0.01
71	Xylene O	0.502	0.522	-4.0	97	0.00
72	Styrene	0.877	0.906	-3.4	97	0.00
73	Bromoform	0.207	0.243	-17.7	101	0.01
74	cis1,4-Dichloro-2-butene	0.046	0.047	-2.6	109	0.00
75 S	Bromofluorobenzene (SURR)	0.617	0.618	-0.1	97	0.00
76 I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	102	0.00
77	Isopropylbenzene	2.684	2.793	-4.1	98	0.00
78	Trans-1,4-Dichloro-2-Butene	0.131	0.136	-4.1	111	0.00
79	1,2,3-Trichloropropane	0.552	0.603	-9.2	105	0.00
80	Bromobenzene	0.784	0.806	-2.8	97	0.00
81	1,1,2,2-Tetrachloroethane	0.667	0.682	-2.3	100	0.00
82	n-Propylbenzene	2.859	2.917	-2.0	95	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\VOA\MS1\_MA\MA0606\MA062806\M1041048.D Vial: 2  
 Acq On : 28 Jun 106 8:10 am Operator: RES  
 Sample : BPF0228-CCV1 Inst : VOA MASS  
 Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M  
 Title : Element ID: 0606001  
 Last Update : Wed Jun 28 07:34:21 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	2-Chlorotoluene	2.062	2.027	1.7	94	0.00
84	4-Chlorotoluene	2.277	2.284	-0.3	98	0.00
85	1,3,5-Trimethylbenzene	2.079	2.105	-1.2	97	0.00
86	tert-Butylbenzene	2.542	2.632	-3.6	97	0.00
87	Pentachloroethane	2.542	2.632	-3.6	97	0.00
88	1,2,4-Trimethylbenzene	2.096	2.151	-2.6	97	0.00
89	sec-Butylbenzene	2.559	2.643	-3.3	99	0.00
90	1,3 Dichlorobenzene	1.332	1.363	-2.3	97	0.00
91	4-Isopropyltoluene	2.066	2.147	-3.9	99	0.00
92	1,4 Dichlorobenzene	1.435	1.480	-3.2	98	0.00
93	n-Butylbenzene	1.669	1.622	2.8	96	0.00
94	1,2 Dichlorobenzene	1.153	1.175	-1.8	97	0.00
95	Hexachloroethane	0.454	0.478	-5.2	105	0.00
96	1,2-Dibromo-3-Chloropropane	0.092	0.094	-2.9	104	0.00
97	1,2,4-Trichlorobenzene	0.586	0.563	4.0	98	0.00
98	Hexachlorobutadiene	0.290	0.279	4.0	105	0.00
99	Naphthalene	0.893	0.808	9.5	102	0.00
100	1,2,3-Trichlorobenzene	0.461	0.402	12.9	103	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report

Data File : Q:\VOA\MS1\_MA\MA0606\MA062806\M1041048.D Vial: 2  
 Acq On : 28 Jun 106 8:10 am Operator: RES  
 Sample : BPF0228-CCV1 Inst : VOA MASS  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 28 11:18 19106

Method : C:\HPCHEM\1\METHODS\HI062706.M  
 Title : Element ID: 0606001  
 Last Update : Wed Jun 28 07:34:21 2006  
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.07	96	3196558	25.00	ug/l	0.00
58) Chlorobenzene-d5	10.13	117	2576358	25.00	ug/l	0.00
76) 1,4 Dichlorobenzene-D4	13.82	152	1216483	25.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
34) Dibromofluoromethane (SURR)	5.31	111	1397748	25.03	ug/l	100.13%
41) 1,2-Dichloroethane-d4 (SURR)	5.69	65	542335	22.19	ug/l	88.76%
59) Toluene-d8 (SURR)	8.08	98	2793332	25.73	ug/l	102.93%
75) Bromofluorobenzene (SURR)	11.96	95	1591162	25.03	ug/l	100.11%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.56	85	1405290	25.43	ug/l	96
3) Chloromethane	1.74	50	964809	27.28	ug/l	96
4) Vinyl Chloride	1.84	62	792822	26.10	ug/l	97
5) Bromomethane	2.15	94	581464	19.95	ug/l	97
6) Chloroethane	2.24	64	284188	23.72	ug/l	98
7) Trichlorofluoromethane	2.47	101	1484434	24.30	ug/l	98
8) Diethyl ether	2.80	59	442600	24.81	ug/l	96
9) Acrolein	2.93	56	64546	25.29	ug/l	93
10) 1,1,2-Trichloro-1,2,2-trif	2.98	101	1466503	25.83	ug/l	97
11) Acetone	3.11	58	137883	132.34	ug/l	93
12) Iodomethane	3.14	142	1742434	21.23	ug/l	99
13) Carbon Disulfide	3.17	76	2084530	26.06	ug/l	100
14) 1,1-Dichloroethene	2.97	96	729918	24.42	ug/l	98
15) Allyl Chloride	3.34	41	1230486	26.10	ug/l	96
16) Methyl Acetate	3.40	43	305329	23.04	ug/l	99
17) Methylene Chloride	3.48	84	793876	24.65	ug/l	97
18) Methyl tert-Butyl Ether	3.77	73	1406116	24.75	ug/l	98
19) Acrylonitrile	3.74	53	108458	24.36	ug/l	98
20) trans-1,2-Dichloroethene	3.73	96	831293	25.56	ug/l	98
21) 1,1-Dichloroethane	4.16	63	1315866	25.28	ug/l	97
22) Vinyl Acetate	4.25	43	2433942	25.01	ug/l	99
23) Chloroprene	4.25	53	950609	25.92	ug/l	92
24) Di-isopropyl ether	4.26	45	2865311	24.39	ug/l	95
25) Ethyl tertiary-butyl ether	4.64	59	2178657	24.88	ug/l	100
26) 2-Butanone	4.84	72	168792	123.23	ug/l	# 88
27) cis-1,2 Dichloroethene	4.78	96	786109	24.89	ug/l	96
28) 2,2-Dichloropropane	4.77	77	1136322	24.54	ug/l	98
29) Methyl Acrylate	4.93	55	368783	23.61	ug/l	97
30) Bromochloromethane	5.03	128	471430	22.67	ug/l	95
31) Methacrylonitrile	5.06	41	235161	23.75	ug/l	98
32) Tetrahydrofuran	5.13	42	96995	24.47	ug/l	92
33) Chloroform	5.13	83	1380913	24.22	ug/l	98
35) 1,1,1-Trichloroethane	5.32	97	1267836	25.25	ug/l	99

(#) = qualifier out of range (m) = manual integration  
 M1041048.D HI062706.M Wed Jun 28 11:19:37 2006



Quantitation Report

Data File : Q:\VOA\MS1\_MA\MA0606\MA062806\M1041048.D  
 Acq On : 28 Jun 106 8:10 am  
 Sample : BPF0228-CCV1  
 Misc :  
 Quant Time: Jun 28 11:18 19106

Vial: 2  
 Operator: RES  
 Inst : VOA MASS  
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\HI062706.M  
 Title : Element ID: 0606001  
 Last Update : Wed Jun 28 07:34:21 2006  
 Response via : Multiple Level Calibration

*XPS 6/28/06*

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
36) Cyclohexane	5.37	56	689042	23.64	ug/l	51
37) 1-Chlorobutane	5.43	56	1353694	21.75	ug/l	98
38) 1,1-Dichloropropene	5.49	75	954437	24.80	ug/l	98
39) Carbon Tetrachloride	5.49	117	1107639	23.58	ug/l	99
40) Benzene	5.74	78	2108206	23.22	ug/l	100
42) 1,2-Dichloroethane	5.78	62	674459	22.74	ug/l	99
43) Tertiary-amyl methyl ether	5.91	73	1901259	25.06	ug/l	97
44) Trichloroethene	6.50	95	1054619	25.09	ug/l	95
45) Methyl Cyclohexane	6.73	83	917704	26.17	ug/l	98
46) 1,2-Dichloropropane	6.80	63	864688	25.54	ug/l	98
47) Dibromomethane	6.94	93	618439	23.74	ug/l	97
48) Methyl Methacrylate	6.97	41	511404	24.40	ug/l	99
49) 1,4-Dioxane	7.01	88	87739	494.18	ug/l	97
50) Bromodichloromethane	7.16	83	1399411	25.12	ug/l	99
51) 2-Nitropropane	7.49	43	115121	27.53	ug/l	27
52) 2-Chloroethyl vinyl ether	7.55	63	1846599	121.33	ug/l	98
53) 4-Methyl-2-Pentanone	7.98	58	1010364	125.75	ug/l	97
54) cis-1,3-Dichloropropene	7.74	75	1249393	23.85	ug/l	99
55) Toluene	8.17	92	1761061	25.09	ug/l	99
56) trans-1,3-Dichloropropene	8.50	75	978509	23.83	ug/l	97
57) 1,1,2-Trichloroethane	8.75	83	559139	25.50	ug/l	94
60) 2-Hexanone	9.14	43	1619744	125.05	ug/l	98
61) Ethyl Methacrylate	8.64	69	885655	24.91	ug/l	100
62) 1,3-Dichloropropane	8.98	76	1050088	26.41	ug/l	100
63) Tetrachloroethene	8.91	164	915423	24.14	ug/l	99
64) Dibromochloromethane	9.30	129	1100340	24.07	ug/l	99
65) 1,2-Dibromoethane	9.45	107	949839	23.82	ug/l	99
66) 1-Chlorohexane	10.17	91	1086006	25.34	ug/l	99
67) Chlorobenzene	10.17	112	2242309	25.82	ug/l	97
68) 1,1,1,2-Tetrachloroethane	10.31	131	971524	23.92	ug/l	97
69) Ethylbenzene	10.35	91	3226265	25.40	ug/l	98
70) Xylene P,M	10.53	106	2769811	51.01	ug/l	97
71) Xylene O	11.14	106	1344099	26.00	ug/l	98
72) Styrene	11.16	104	2334749	25.84	ug/l	99
73) Bromoform	11.45	173	626578	23.91	ug/l	98
74) cis1,4-Dichloro-2-butene	11.85	75	120341	25.66	ug/l	95
77) Isopropylbenzene	11.72	105	3397647	26.01	ug/l	99
78) Trans-1,4-Dichloro-2-Buten	12.32	53	165899	26.02	ug/l	# 82
79) 1,2,3-Trichloropropane	12.29	75	734100	25.51	ug/l	97
80) Bromobenzene	12.17	156	979991	25.69	ug/l	98
81) 1,1,2,2-Tetrachloroethane	12.23	83	829456	25.57	ug/l	96
82) n-Propylbenzene	12.38	91	3547985	25.51	ug/l	100
83) 2-Chlorotoluene	12.50	91	2466238	24.57	ug/l	100
84) 4-Chlorotoluene	12.68	91	2778590	25.08	ug/l	100

(#) = qualifier out of range (m) = manual integration  
 M1041048.D HI062706.M Wed Jun 28 11:19:40 2006

Quantitation Report

Data File : Q:\VOA\MS1\_MA\MA0606\MA062806\M1041048.D Vial: 2  
 Acq On : 28 Jun 106 8:10 am Operator: RES  
 Sample : BPF0228-CCV1 Inst : VOA MASS  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 28 11:18 19106

Method : C:\HPCHEM\1\METHODS\HI062706.M  
 Title : Element ID: 0606001  
 Last Update : Wed Jun 28 07:34:21 2006  
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
85) 1,3,5-Trimethylbenzene	12.67	105	2560772	25.31	ug/l	99
86) tert-Butylbenzene	13.19	119	3201744	25.89	ug/l	99
87) Pentachloroethane	13.19	119	3201744	25.89	ug/l	98
88) 1,2,4-Trimethylbenzene	13.28	105	2616856	25.66	ug/l	99
89) sec-Butylbenzene	13.56	105	3215676	25.82	ug/l	98
90) 1,3 Dichlorobenzene	13.71	146	1657828	25.58	ug/l	100
91) 4-Isopropyltoluene	13.81	119	2611999	25.98	ug/l	99
92) 1,4 Dichlorobenzene	13.86	146	1800784	25.79	ug/l	99
93) n-Butylbenzene	14.45	91	1973475	24.31	ug/l	99
94) 1,2 Dichlorobenzene	14.45	146	1428869	25.46	ug/l	98
95) Hexachloroethane	14.78	117	580971	26.29	ug/l	97
96) 1,2-Dibromo-3-Chloropropan	15.44	75	114766	25.74	ug/l	90
97) 1,2,4-Trichlorobenzene	16.27	180	684383	24.01	ug/l	99
98) Hexachlorobutadiene	16.44	225	338966	25.48	ug/l	97
99) Naphthalene	16.51	128	982635	24.26	ug/l	100
100) 1,2,3-Trichlorobenzene	16.76	180	488453	24.32	ug/l	98

# Semi-Volatile Organics Data Package

# Semi-Volatile Organics Sample Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3101  
Date Sampled: 06/21/06 10:20  
Percent Solids: 24  
Initial Volume: 19.2  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-01  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	2170	1	06/29/06
2-Methylnaphthalene	ND	ug/Kg dry	2170	1	06/29/06
Acenaphthene	ND	ug/Kg dry	2170	1	06/29/06
Acenaphthylene	ND	ug/Kg dry	2170	1	06/29/06
Anthracene	ND	ug/Kg dry	2170	1	06/29/06
Benzo(a)anthracene	ND	ug/Kg dry	2170	1	06/29/06
Benzo(a)pyrene	ND	ug/Kg dry	2170	1	06/29/06
Benzo(b)fluoranthene	ND	ug/Kg dry	2170	1	06/29/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	2170	1	06/29/06
Benzo(k)fluoranthene	ND	ug/Kg dry	2170	1	06/29/06
Chrysene	ND	ug/Kg dry	2170	1	06/29/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	2170	1	06/29/06
Fluoranthene	ND	ug/Kg dry	2170	1	06/29/06
Fluorene	ND	ug/Kg dry	2170	1	06/29/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	2170	1	06/29/06
Naphthalene	ND	ug/Kg dry	2170	1	06/29/06
Phenanthrene	ND	ug/Kg dry	2170	1	06/29/06
Pyrene	ND	ug/Kg dry	2170	1	06/29/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	71 %		30-130
Surrogate: 2-Fluorobiphenyl	86 %		30-130
Surrogate: Nitrobenzene-d5	79 %		30-130
Surrogate: p-Terphenyl-d14	78 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3104  
Date Sampled: 06/21/06 10:50  
Percent Solids: 75  
Initial Volume: 19.9  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-02  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	670	1	06/29/06
2-Methylnaphthalene	ND	ug/Kg dry	670	1	06/29/06
Acenaphthene	ND	ug/Kg dry	670	1	06/29/06
Acenaphthylene	ND	ug/Kg dry	670	1	06/29/06
Anthracene	ND	ug/Kg dry	670	1	06/29/06
Benzo(a)anthracene	ND	ug/Kg dry	670	1	06/29/06
Benzo(a)pyrene	ND	ug/Kg dry	670	1	06/29/06
Benzo(b)fluoranthene	ND	ug/Kg dry	670	1	06/29/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	670	1	06/29/06
Benzo(k)fluoranthene	ND	ug/Kg dry	670	1	06/29/06
Chrysene	ND	ug/Kg dry	670	1	06/29/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	670	1	06/29/06
Fluoranthene	ND	ug/Kg dry	670	1	06/29/06
Fluorene	ND	ug/Kg dry	670	1	06/29/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	670	1	06/29/06
Naphthalene	ND	ug/Kg dry	670	1	06/29/06
Phenanthrene	ND	ug/Kg dry	670	1	06/29/06
Pyrene	ND	ug/Kg dry	670	1	06/29/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	74 %		30-130
Surrogate: 2-Fluorobiphenyl	79 %		30-130
Surrogate: Nitrobenzene-d5	80 %		30-130
Surrogate: p-Terphenyl-d14	84 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
 Client Project ID: Providence Gorham Site  
 Client Sample ID: SED3001  
 Date Sampled: 06/21/06 13:30  
 Percent Solids: 80  
 Initial Volume: 20.1  
 Final Volume: 1  
 Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
 ESS Laboratory Sample ID: 0606373-03  
 Sample Matrix: Soil  
 Analyst: VSC  
 Prepared: 06/26/06

### 8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	622	1	06/29/06
2-Methylnaphthalene	ND	ug/Kg dry	622	1	06/29/06
Acenaphthene	ND	ug/Kg dry	622	1	06/29/06
Acenaphthylene	ND	ug/Kg dry	622	1	06/29/06
Anthracene	ND	ug/Kg dry	622	1	06/29/06
Benzo(a)anthracene	ND	ug/Kg dry	622	1	06/29/06
Benzo(a)pyrene	ND	ug/Kg dry	622	1	06/29/06
Benzo(b)fluoranthene	ND	ug/Kg dry	622	1	06/29/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	622	1	06/29/06
Benzo(k)fluoranthene	ND	ug/Kg dry	622	1	06/29/06
Chrysene	ND	ug/Kg dry	622	1	06/29/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	622	1	06/29/06
Fluoranthene	ND	ug/Kg dry	622	1	06/29/06
Fluorene	ND	ug/Kg dry	622	1	06/29/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	622	1	06/29/06
Naphthalene	ND	ug/Kg dry	622	1	06/29/06
Phenanthrene	ND	ug/Kg dry	622	1	06/29/06
<b>Pyrene</b>	E <b>810</b>	ug/Kg dry	622	1	06/29/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	56 %		30-130
Surrogate: 2-Fluorobiphenyl	79 %		30-130
Surrogate: Nitrobenzene-d5	69 %		30-130
Surrogate: p-Terphenyl-d14	97 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3004  
Date Sampled: 06/21/06 13:45  
Percent Solids: 47  
Initial Volume: 21  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-04  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	1010	1	06/29/06
2-Methylnaphthalene	ND	ug/Kg dry	1010	1	06/29/06
Acenaphthene	ND	ug/Kg dry	1010	1	06/29/06
Acenaphthylene	ND	ug/Kg dry	1010	1	06/29/06
Anthracene	ND	ug/Kg dry	1010	1	06/29/06
Benzo(a)anthracene	ND	ug/Kg dry	1010	1	06/29/06
Benzo(a)pyrene	ND	ug/Kg dry	1010	1	06/29/06
Benzo(b)fluoranthene	ND	ug/Kg dry	1010	1	06/29/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	1010	1	06/29/06
Benzo(k)fluoranthene	ND	ug/Kg dry	1010	1	06/29/06
Chrysene	ND	ug/Kg dry	1010	1	06/29/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	1010	1	06/29/06
Fluoranthene	ND	ug/Kg dry	1010	1	06/29/06
Fluorene	ND	ug/Kg dry	1010	1	06/29/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	1010	1	06/29/06
Naphthalene	ND	ug/Kg dry	1010	1	06/29/06
Phenanthrene	ND	ug/Kg dry	1010	1	06/29/06
Pyrene	ND	ug/Kg dry	1010	1	06/29/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	72 %		30-130
Surrogate: 2-Fluorobiphenyl	82 %		30-130
Surrogate: Nitrobenzene-d5	84 %		30-130
Surrogate: p-Terphenyl-d14	79 %		30-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2801  
Date Sampled: 06/21/06 14:02  
Percent Solids: 27  
Initial Volume: 20.3  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-05  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	1820	1	06/29/06
2-Methylnaphthalene	ND	ug/Kg dry	1820	1	06/29/06
Acenaphthene	ND	ug/Kg dry	1820	1	06/29/06
Acenaphthylene	ND	ug/Kg dry	1820	1	06/29/06
Anthracene	ND	ug/Kg dry	1820	1	06/29/06
Benzo(a)anthracene	ND	ug/Kg dry	1820	1	06/29/06
Benzo(a)pyrene	ND	ug/Kg dry	1820	1	06/29/06
Benzo(b)fluoranthene	ND	ug/Kg dry	1820	1	06/29/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	1820	1	06/29/06
Benzo(k)fluoranthene	ND	ug/Kg dry	1820	1	06/29/06
Chrysene	ND	ug/Kg dry	1820	1	06/29/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	1820	1	06/29/06
<b>Fluoranthene</b>	<b>2110</b>	ug/Kg dry	1820	1	06/29/06
Fluorene	ND	ug/Kg dry	1820	1	06/29/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	1820	1	06/29/06
Naphthalene	ND	ug/Kg dry	1820	1	06/29/06
Phenanthrene	ND	ug/Kg dry	1820	1	06/29/06
Pyrene	ND	ug/Kg dry	1820	1	06/29/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	68 %		30-130
Surrogate: 2-Fluorobiphenyl	78 %		30-130
Surrogate: Nitrobenzene-d5	73 %		30-130
Surrogate: p-Terphenyl-d14	81 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2803  
Date Sampled: 06/21/06 14:15  
Percent Solids: 11  
Initial Volume: 19.6  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-06  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	4640	1	06/29/06
2-Methylnaphthalene	ND	ug/Kg dry	4640	1	06/29/06
Acenaphthene	ND	ug/Kg dry	4640	1	06/29/06
Acenaphthylene	ND	ug/Kg dry	4640	1	06/29/06
Anthracene	ND	ug/Kg dry	4640	1	06/29/06
Benzo(a)anthracene	ND	ug/Kg dry	4640	1	06/29/06
Benzo(a)pyrene	ND	ug/Kg dry	4640	1	06/29/06
Benzo(b)fluoranthene	ND	ug/Kg dry	4640	1	06/29/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	4640	1	06/29/06
Benzo(k)fluoranthene	ND	ug/Kg dry	4640	1	06/29/06
Chrysene	ND	ug/Kg dry	4640	1	06/29/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	4640	1	06/29/06
Fluoranthene	ND	ug/Kg dry	4640	1	06/29/06
Fluorene	ND	ug/Kg dry	4640	1	06/29/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	4640	1	06/29/06
Naphthalene	ND	ug/Kg dry	4640	1	06/29/06
Phenanthrene	ND	ug/Kg dry	4640	1	06/29/06
Pyrene	ND	ug/Kg dry	4640	1	06/29/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	70 %		30-130
Surrogate: 2-Fluorobiphenyl	83 %		30-130
Surrogate: Nitrobenzene-d5	80 %		30-130
Surrogate: p-Terphenyl-d14	75 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED2901

Date Sampled: 06/21/06 14:42

Percent Solids: 25

Initial Volume: 19.9

Final Volume: 1

Extraction Method: 3541

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-07

Sample Matrix: Soil

Analyst: VSC

Prepared: 06/26/06

### 8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	2010	1	06/29/06
2-Methylnaphthalene	ND	ug/Kg dry	2010	1	06/29/06
Acenaphthene	ND	ug/Kg dry	2010	1	06/29/06
Acenaphthylene	ND	ug/Kg dry	2010	1	06/29/06
Anthracene	ND	ug/Kg dry	2010	1	06/29/06
Benzo(a)anthracene	ND	ug/Kg dry	2010	1	06/29/06
Benzo(a)pyrene	ND	ug/Kg dry	2010	1	06/29/06
Benzo(b)fluoranthene	ND	ug/Kg dry	2010	1	06/29/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	2010	1	06/29/06
Benzo(k)fluoranthene	ND	ug/Kg dry	2010	1	06/29/06
Chrysene	ND	ug/Kg dry	2010	1	06/29/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	2010	1	06/29/06
Fluoranthene	ND	ug/Kg dry	2010	1	06/29/06
Fluorene	ND	ug/Kg dry	2010	1	06/29/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	2010	1	06/29/06
Naphthalene	ND	ug/Kg dry	2010	1	06/29/06
Phenanthrene	ND	ug/Kg dry	2010	1	06/29/06
Pyrene	ND	ug/Kg dry	2010	1	06/29/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	67 %		30-130
Surrogate: 2-Fluorobiphenyl	76 %		30-130
Surrogate: Nitrobenzene-d5	73 %		30-130
Surrogate: p-Terphenyl-d14	68 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2904  
Date Sampled: 06/21/06 14:55  
Percent Solids: 26  
Initial Volume: 20.1  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-08  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	1910	1	06/30/06
2-Methylnaphthalene	ND	ug/Kg dry	1910	1	06/30/06
Acenaphthene	ND	ug/Kg dry	1910	1	06/30/06
Acenaphthylene	ND	ug/Kg dry	1910	1	06/30/06
Anthracene	ND	ug/Kg dry	1910	1	06/30/06
Benzo(a)anthracene	ND	ug/Kg dry	1910	1	06/30/06
Benzo(a)pyrene	ND	ug/Kg dry	1910	1	06/30/06
Benzo(b)fluoranthene	ND	ug/Kg dry	1910	1	06/30/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	1910	1	06/30/06
Benzo(k)fluoranthene	ND	ug/Kg dry	1910	1	06/30/06
Chrysene	ND	ug/Kg dry	1910	1	06/30/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	1910	1	06/30/06
Fluoranthene	ND	ug/Kg dry	1910	1	06/30/06
Fluorene	ND	ug/Kg dry	1910	1	06/30/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	1910	1	06/30/06
Naphthalene	ND	ug/Kg dry	1910	1	06/30/06
Phenanthrene	ND	ug/Kg dry	1910	1	06/30/06
Pyrene	ND	ug/Kg dry	1910	1	06/30/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	73 %		30-130
Surrogate: 2-Fluorobiphenyl	82 %		30-130
Surrogate: Nitrobenzene-d5	80 %		30-130
Surrogate: p-Terphenyl-d14	76 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
 Client Project ID: Providence Gorham Site  
 Client Sample ID: SED3201  
 Date Sampled: 06/21/06 15:22  
 Percent Solids: 72  
 Initial Volume: 20.4  
 Final Volume: 1  
 Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
 ESS Laboratory Sample ID: 0606373-09  
 Sample Matrix: Soil  
 Analyst: VSC  
 Prepared: 06/26/06

### 8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	681	1	06/30/06
2-Methylnaphthalene	ND	ug/Kg dry	681	1	06/30/06
Acenaphthene	ND	ug/Kg dry	681	1	06/30/06
Acenaphthylene	ND	ug/Kg dry	681	1	06/30/06
Anthracene	ND	ug/Kg dry	681	1	06/30/06
Benzo(a)anthracene	ND	ug/Kg dry	681	1	06/30/06
Benzo(a)pyrene	ND	ug/Kg dry	681	1	06/30/06
Benzo(b)fluoranthene	ND	ug/Kg dry	681	1	06/30/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	681	1	06/30/06
Benzo(k)fluoranthene	ND	ug/Kg dry	681	1	06/30/06
Chrysene	ND	ug/Kg dry	681	1	06/30/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	681	1	06/30/06
<b>Fluoranthene</b>	<b>1560</b>	ug/Kg dry	681	1	06/30/06
Fluorene	ND	ug/Kg dry	681	1	06/30/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	681	1	06/30/06
Naphthalene	ND	ug/Kg dry	681	1	06/30/06
<b>Phenanthrene</b>	<b>1230</b>	ug/Kg dry	681	1	06/30/06
<b>Pyrene</b>	<b>1070</b>	ug/Kg dry	681	1	06/30/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	72 %		30-130
Surrogate: 2-Fluorobiphenyl	82 %		30-130
Surrogate: Nitrobenzene-d5	78 %		30-130
Surrogate: p-Terphenyl-d14	70 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
 Client Project ID: Providence Gorham Site  
 Client Sample ID: SED3204  
 Date Sampled: 06/21/06 15:34  
 Percent Solids: 80  
 Initial Volume: 20.2  
 Final Volume: 1  
 Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
 ESS Laboratory Sample ID: 0606373-10  
 Sample Matrix: Soil  
 Analyst: VSC  
 Prepared: 06/26/06

### 8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	619	1	06/30/06
2-Methylnaphthalene	ND	ug/Kg dry	619	1	06/30/06
Acenaphthene	ND	ug/Kg dry	619	1	06/30/06
Acenaphthylene	ND	ug/Kg dry	619	1	06/30/06
Anthracene	ND	ug/Kg dry	619	1	06/30/06
Benzo(a)anthracene	ND	ug/Kg dry	619	1	06/30/06
Benzo(a)pyrene	ND	ug/Kg dry	619	1	06/30/06
Benzo(b)fluoranthene	ND	ug/Kg dry	619	1	06/30/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	619	1	06/30/06
Benzo(k)fluoranthene	ND	ug/Kg dry	619	1	06/30/06
Chrysene	ND	ug/Kg dry	619	1	06/30/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	619	1	06/30/06
Fluoranthene	ND	ug/Kg dry	619	1	06/30/06
Fluorene	ND	ug/Kg dry	619	1	06/30/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	619	1	06/30/06
Naphthalene	ND	ug/Kg dry	619	1	06/30/06
Phenanthrene	ND	ug/Kg dry	619	1	06/30/06
Pyrene	ND	ug/Kg dry	619	1	06/30/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	72 %		30-130
Surrogate: 2-Fluorobiphenyl	80 %		30-130
Surrogate: Nitrobenzene-d5	78 %		30-130
Surrogate: p-Terphenyl-d14	71 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2001  
Date Sampled: 06/22/06 08:40  
Percent Solids: 43  
Initial Volume: 19  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-12  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	1220	1	06/30/06
2-Methylnaphthalene	ND	ug/Kg dry	1220	1	06/30/06
Acenaphthene	ND	ug/Kg dry	1220	1	06/30/06
Acenaphthylene	ND	ug/Kg dry	1220	1	06/30/06
Anthracene	2490	ug/Kg dry	1220	1	06/30/06
Benzo(a)anthracene	7360	ug/Kg dry	1220	1	06/30/06
Benzo(a)pyrene	6270	ug/Kg dry	1220	1	06/30/06
Benzo(b)fluoranthene	5680	ug/Kg dry	1220	1	06/30/06
Benzo(g,h,i)perylene	2540	ug/Kg dry	1220	1	06/30/06
Benzo(k)fluoranthene	5100	ug/Kg dry	1220	1	06/30/06
Chrysene	7150	ug/Kg dry	1220	1	06/30/06
Dibenzo(a,h)Anthracene	1450	ug/Kg dry	1220	1	06/30/06
Fluoranthene	16900	ug/Kg dry	1220	1	06/30/06
Fluorene	ND	ug/Kg dry	1220	1	06/30/06
Indeno(1,2,3-cd)Pyrene	2470	ug/Kg dry	1220	1	06/30/06
Naphthalene	ND	ug/Kg dry	1220	1	06/30/06
Phenanthrene	7660	ug/Kg dry	1220	1	06/30/06
Pyrene	11600	ug/Kg dry	1220	1	06/30/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	74 %		30-130
Surrogate: 2-Fluorobiphenyl	84 %		30-130
Surrogate: Nitrobenzene-d5	80 %		30-130
Surrogate: p-Terphenyl-d14	73 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2003  
Date Sampled: 06/22/06 08:55  
Percent Solids: 23  
Initial Volume: 21  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-13  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	2070	1	06/30/06
2-Methylnaphthalene	ND	ug/Kg dry	2070	1	06/30/06
Acenaphthene	ND	ug/Kg dry	2070	1	06/30/06
Acenaphthylene	ND	ug/Kg dry	2070	1	06/30/06
Anthracene	ND	ug/Kg dry	2070	1	06/30/06
Benzo(a)anthracene	ND	ug/Kg dry	2070	1	06/30/06
Benzo(a)pyrene	ND	ug/Kg dry	2070	1	06/30/06
Benzo(b)fluoranthene	ND	ug/Kg dry	2070	1	06/30/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	2070	1	06/30/06
Benzo(k)fluoranthene	ND	ug/Kg dry	2070	1	06/30/06
Chrysene	ND	ug/Kg dry	2070	1	06/30/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	2070	1	06/30/06
Fluoranthene	ND	ug/Kg dry	2070	1	06/30/06
Fluorene	ND	ug/Kg dry	2070	1	06/30/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	2070	1	06/30/06
Naphthalene	ND	ug/Kg dry	2070	1	06/30/06
Phenanthrene	ND	ug/Kg dry	2070	1	06/30/06
Pyrene	ND	ug/Kg dry	2070	1	06/30/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	80 %		30-130
Surrogate: 2-Fluorobiphenyl	90 %		30-130
Surrogate: Nitrobenzene-d5	88 %		30-130
Surrogate: p-Terphenyl-d14	79 %		30-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED1701

Date Sampled: 06/22/06 09:15

Percent Solids: 71

Initial Volume: 20.1

Final Volume: 1

Extraction Method: 3541

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-14

Sample Matrix: Soil

Analyst: VSC

Prepared: 06/26/06

### 8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	701	1	06/30/06
2-Methylnaphthalene	ND	ug/Kg dry	701	1	06/30/06
Acenaphthene	ND	ug/Kg dry	701	1	06/30/06
Acenaphthylene	ND	ug/Kg dry	701	1	06/30/06
Anthracene	ND	ug/Kg dry	701	1	06/30/06
Benzo(a)anthracene	ND	ug/Kg dry	701	1	06/30/06
Benzo(a)pyrene	ND	ug/Kg dry	701	1	06/30/06
Benzo(b)fluoranthene	ND	ug/Kg dry	701	1	06/30/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	701	1	06/30/06
Benzo(k)fluoranthene	ND	ug/Kg dry	701	1	06/30/06
Chrysene	ND	ug/Kg dry	701	1	06/30/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	701	1	06/30/06
Fluoranthene	ND	ug/Kg dry	701	1	06/30/06
Fluorene	ND	ug/Kg dry	701	1	06/30/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	701	1	06/30/06
Naphthalene	ND	ug/Kg dry	701	1	06/30/06
Phenanthrene	ND	ug/Kg dry	701	1	06/30/06
Pyrene	ND	ug/Kg dry	701	1	06/30/06

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	69 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	77 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	73 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	71 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
 Client Project ID: Providence Gorham Site  
 Client Sample ID: SED1704  
 Date Sampled: 06/22/06 09:30  
 Percent Solids: 81  
 Initial Volume: 20.2  
 Final Volume: 1  
 Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
 ESS Laboratory Sample ID: 0606373-15  
 Sample Matrix: Soil  
 Analyst: VSC  
 Prepared: 06/26/06

### 8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	611	1	06/30/06
2-Methylnaphthalene	ND	ug/Kg dry	611	1	06/30/06
Acenaphthene	ND	ug/Kg dry	611	1	06/30/06
Acenaphthylene	ND	ug/Kg dry	611	1	06/30/06
Anthracene	ND	ug/Kg dry	611	1	06/30/06
Benzo(a)anthracene	ND	ug/Kg dry	611	1	06/30/06
Benzo(a)pyrene	ND	ug/Kg dry	611	1	06/30/06
Benzo(b)fluoranthene	ND	ug/Kg dry	611	1	06/30/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	611	1	06/30/06
Benzo(k)fluoranthene	ND	ug/Kg dry	611	1	06/30/06
Chrysene	ND	ug/Kg dry	611	1	06/30/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	611	1	06/30/06
Fluoranthene	ND	ug/Kg dry	611	1	06/30/06
Fluorene	ND	ug/Kg dry	611	1	06/30/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	611	1	06/30/06
Naphthalene	ND	ug/Kg dry	611	1	06/30/06
Phenanthrene	ND	ug/Kg dry	611	1	06/30/06
Pyrene	ND	ug/Kg dry	611	1	06/30/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	71 %		30-130
Surrogate: 2-Fluorobiphenyl	77 %		30-130
Surrogate: Nitrobenzene-d5	77 %		30-130
Surrogate: p-Terphenyl-d14	70 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1001  
Date Sampled: 06/22/06 09:45  
Percent Solids: 85  
Initial Volume: 19.3  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-16  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	610	1	06/30/06
2-Methylnaphthalene	ND	ug/Kg dry	610	1	06/30/06
Acenaphthene	ND	ug/Kg dry	610	1	06/30/06
Acenaphthylene	ND	ug/Kg dry	610	1	06/30/06
Anthracene	ND	ug/Kg dry	610	1	06/30/06
Benzo(a)anthracene	ND	ug/Kg dry	610	1	06/30/06
Benzo(a)pyrene	ND	ug/Kg dry	610	1	06/30/06
Benzo(b)fluoranthene	ND	ug/Kg dry	610	1	06/30/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	610	1	06/30/06
Benzo(k)fluoranthene	ND	ug/Kg dry	610	1	06/30/06
Chrysene	ND	ug/Kg dry	610	1	06/30/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	610	1	06/30/06
Fluoranthene	ND	ug/Kg dry	610	1	06/30/06
Fluorene	ND	ug/Kg dry	610	1	06/30/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	610	1	06/30/06
Naphthalene	ND	ug/Kg dry	610	1	06/30/06
Phenanthrene	ND	ug/Kg dry	610	1	06/30/06
Pyrene	ND	ug/Kg dry	610	1	06/30/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	73 %		30-130
Surrogate: 2-Fluorobiphenyl	83 %		30-130
Surrogate: Nitrobenzene-d5	83 %		30-130
Surrogate: p-Terphenyl-d14	75 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
 Client Project ID: Providence Gorham Site  
 Client Sample ID: SED1003  
 Date Sampled: 06/22/06 09:55  
 Percent Solids: 73  
 Initial Volume: 19.9  
 Final Volume: 1  
 Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
 ESS Laboratory Sample ID: 0606373-17  
 Sample Matrix: Soil  
 Analyst: VSC  
 Prepared: 06/26/06

### 8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	688	1	07/02/06
2-Methylnaphthalene	ND	ug/Kg dry	688	1	07/02/06
Acenaphthene	ND	ug/Kg dry	688	1	07/02/06
Acenaphthylene	ND	ug/Kg dry	688	1	07/02/06
Anthracene	ND	ug/Kg dry	688	1	07/02/06
Benzo(a)anthracene	ND	ug/Kg dry	688	1	07/02/06
Benzo(a)pyrene	ND	ug/Kg dry	688	1	07/02/06
Benzo(b)fluoranthene	ND	ug/Kg dry	688	1	07/02/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	688	1	07/02/06
Benzo(k)fluoranthene	ND	ug/Kg dry	688	1	07/02/06
Chrysene	ND	ug/Kg dry	688	1	07/02/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	688	1	07/02/06
Fluoranthene	ND	ug/Kg dry	688	1	07/02/06
Fluorene	ND	ug/Kg dry	688	1	07/02/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	688	1	07/02/06
Naphthalene	ND	ug/Kg dry	688	1	07/02/06
Phenanthrene	ND	ug/Kg dry	688	1	07/02/06
Pyrene	ND	ug/Kg dry	688	1	07/02/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	77 %		30-130
Surrogate: 2-Fluorobiphenyl	76 %		30-130
Surrogate: Nitrobenzene-d5	80 %		30-130
Surrogate: p-Terphenyl-d14	69 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1101  
Date Sampled: 06/22/06 10:15  
Percent Solids: 15  
Initial Volume: 20.4  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-18  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	3270	1	07/02/06
2-Methylnaphthalene	ND	ug/Kg dry	3270	1	07/02/06
Acenaphthene	ND	ug/Kg dry	3270	1	07/02/06
Acenaphthylene	ND	ug/Kg dry	3270	1	07/02/06
Anthracene	ND	ug/Kg dry	3270	1	07/02/06
Benzo(a)anthracene	ND	ug/Kg dry	3270	1	07/02/06
Benzo(a)pyrene	ND	ug/Kg dry	3270	1	07/02/06
Benzo(b)fluoranthene	ND	ug/Kg dry	3270	1	07/02/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	3270	1	07/02/06
Benzo(k)fluoranthene	ND	ug/Kg dry	3270	1	07/02/06
Chrysene	ND	ug/Kg dry	3270	1	07/02/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	3270	1	07/02/06
Fluoranthene	ND	ug/Kg dry	3270	1	07/02/06
Fluorene	ND	ug/Kg dry	3270	1	07/02/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	3270	1	07/02/06
Naphthalene	ND	ug/Kg dry	3270	1	07/02/06
Phenanthrene	ND	ug/Kg dry	3270	1	07/02/06
Pyrene	ND	ug/Kg dry	3270	1	07/02/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	73 %		30-130
Surrogate: 2-Fluorobiphenyl	72 %		30-130
Surrogate: Nitrobenzene-d5	76 %		30-130
Surrogate: p-Terphenyl-d14	65 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1103  
Date Sampled: 06/22/06 10:30  
Percent Solids: 75  
Initial Volume: 21  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-19  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	635	1	07/02/06
2-Methylnaphthalene	ND	ug/Kg dry	635	1	07/02/06
Acenaphthene	ND	ug/Kg dry	635	1	07/02/06
Acenaphthylene	ND	ug/Kg dry	635	1	07/02/06
Anthracene	ND	ug/Kg dry	635	1	07/02/06
Benzo(a)anthracene	ND	ug/Kg dry	635	1	07/02/06
Benzo(a)pyrene	ND	ug/Kg dry	635	1	07/02/06
Benzo(b)fluoranthene	ND	ug/Kg dry	635	1	07/02/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	635	1	07/02/06
Benzo(k)fluoranthene	ND	ug/Kg dry	635	1	07/02/06
Chrysene	ND	ug/Kg dry	635	1	07/02/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	635	1	07/02/06
Fluoranthene	ND	ug/Kg dry	635	1	07/02/06
Fluorene	ND	ug/Kg dry	635	1	07/02/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	635	1	07/02/06
Naphthalene	ND	ug/Kg dry	635	1	07/02/06
Phenanthrene	ND	ug/Kg dry	635	1	07/02/06
Pyrene	ND	ug/Kg dry	635	1	07/02/06

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	59 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	58 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	63 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	56 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1201  
Date Sampled: 06/22/06 11:01  
Percent Solids: 45  
Initial Volume: 20.1  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-20  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	1110	1	07/02/06
2-Methylnaphthalene	ND	ug/Kg dry	1110	1	07/02/06
Acenaphthene	ND	ug/Kg dry	1110	1	07/02/06
Acenaphthylene	ND	ug/Kg dry	1110	1	07/02/06
Anthracene	ND	ug/Kg dry	1110	1	07/02/06
Benzo(a)anthracene	ND	ug/Kg dry	1110	1	07/02/06
Benzo(a)pyrene	ND	ug/Kg dry	1110	1	07/02/06
Benzo(b)fluoranthene	ND	ug/Kg dry	1110	1	07/02/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	1110	1	07/02/06
Benzo(k)fluoranthene	ND	ug/Kg dry	1110	1	07/02/06
Chrysene	ND	ug/Kg dry	1110	1	07/02/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	1110	1	07/02/06
<b>Fluoranthene</b>	<b>1520</b>	ug/Kg dry	1110	1	07/02/06
Fluorene	ND	ug/Kg dry	1110	1	07/02/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	1110	1	07/02/06
Naphthalene	ND	ug/Kg dry	1110	1	07/02/06
<b>Phenanthrene</b>	<b>1140</b>	ug/Kg dry	1110	1	07/02/06
Pyrene	ND	ug/Kg dry	1110	1	07/02/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	67 %		30-130
Surrogate: 2-Fluorobiphenyl	66 %		30-130
Surrogate: Nitrobenzene-d5	71 %		30-130
Surrogate: p-Terphenyl-d14	62 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED1203

Date Sampled: 06/22/06 11:15

Percent Solids: 76

Initial Volume: 20.3

Final Volume: 1

Extraction Method: 3541

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-21

Sample Matrix: Soil

Analyst: VSC

Prepared: 06/26/06

### 8270C Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	648	1	07/02/06
2-Methylnaphthalene	ND	ug/Kg dry	648	1	07/02/06
Acenaphthene	ND	ug/Kg dry	648	1	07/02/06
Acenaphthylene	ND	ug/Kg dry	648	1	07/02/06
Anthracene	ND	ug/Kg dry	648	1	07/02/06
Benzo(a)anthracene	ND	ug/Kg dry	648	1	07/02/06
Benzo(a)pyrene	ND	ug/Kg dry	648	1	07/02/06
Benzo(b)fluoranthene	ND	ug/Kg dry	648	1	07/02/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	648	1	07/02/06
Benzo(k)fluoranthene	ND	ug/Kg dry	648	1	07/02/06
Chrysene	ND	ug/Kg dry	648	1	07/02/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	648	1	07/02/06
Fluoranthene	ND	ug/Kg dry	648	1	07/02/06
Fluorene	ND	ug/Kg dry	648	1	07/02/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	648	1	07/02/06
Naphthalene	ND	ug/Kg dry	648	1	07/02/06
Phenanthrene	ND	ug/Kg dry	648	1	07/02/06
Pyrene	ND	ug/Kg dry	648	1	07/02/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	72 %		30-130
Surrogate: 2-Fluorobiphenyl	70 %		30-130
Surrogate: Nitrobenzene-d5	76 %		30-130
Surrogate: p-Terphenyl-d14	66 %		30-130



Semi-Volatile Organics  
Quality Control Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8270C Polynuclear Aromatic Hydrocarbons

Batch BF62605 - 3541

#### Blank

1-Methylnaphthalene	ND	500	ug/Kg wet							
2-Methylnaphthalene	ND	500	ug/Kg wet							
Acenaphthene	ND	500	ug/Kg wet							
Acenaphthylene	ND	500	ug/Kg wet							
Anthracene	ND	500	ug/Kg wet							
Benzo(a)anthracene	ND	500	ug/Kg wet							
Benzo(a)pyrene	ND	500	ug/Kg wet							
Benzo(b)fluoranthene	ND	500	ug/Kg wet							
Benzo(g,h,i)perylene	ND	500	ug/Kg wet							
Benzo(k)fluoranthene	ND	500	ug/Kg wet							
Chrysene	ND	500	ug/Kg wet							
Dibenzo(a,h)Anthracene	ND	500	ug/Kg wet							
Fluoranthene	ND	500	ug/Kg wet							
Fluorene	ND	500	ug/Kg wet							
Indeno(1,2,3-cd)Pyrene	ND	500	ug/Kg wet							
Naphthalene	ND	500	ug/Kg wet							
Phenanthrene	ND	500	ug/Kg wet							
Pyrene	ND	500	ug/Kg wet							

Surrogate: 1,2-Dichlorobenzene-d4	3900		ug/Kg wet	5000		78	30-130			
Surrogate: 2-Fluorobiphenyl	4050		ug/Kg wet	5000		81	30-130			
Surrogate: Nitrobenzene-d5	4320		ug/Kg wet	5000		86	30-130			
Surrogate: p-Terphenyl-d14	3720		ug/Kg wet	5000		74	30-130			

#### LCS

2-Methylnaphthalene	3990	500	ug/Kg wet	5000		80	40-140			
Acenaphthene	4040	500	ug/Kg wet	5000		81	40-140			
Acenaphthylene	3930	500	ug/Kg wet	5000		79	40-140			
Anthracene	4420	500	ug/Kg wet	5000		88	40-140			
Benzo(a)anthracene	4290	500	ug/Kg wet	5000		86	40-140			
Benzo(a)pyrene	4510	500	ug/Kg wet	5000		90	40-140			
Benzo(b)fluoranthene	3090	500	ug/Kg wet	5000		62	40-140			
Benzo(g,h,i)perylene	4580	500	ug/Kg wet	5000		92	40-140			
Benzo(k)fluoranthene	4170	500	ug/Kg wet	5000		83	40-140			
Chrysene	4260	500	ug/Kg wet	5000		85	40-140			
Dibenzo(a,h)Anthracene	5160	500	ug/Kg wet	5000		103	40-140			
Fluoranthene	4250	500	ug/Kg wet	5000		85	40-140			
Fluorene	3980	500	ug/Kg wet	5000		80	40-140			
Indeno(1,2,3-cd)Pyrene	4910	500	ug/Kg wet	5000		98	40-140			
Naphthalene	4080	500	ug/Kg wet	5000		82	40-140			
Phenanthrene	4190	500	ug/Kg wet	5000		84	40-140			
Pyrene	3990	500	ug/Kg wet	5000		80	40-140			

Surrogate: 1,2-Dichlorobenzene-d4	4230		ug/Kg wet	5000		85	30-130			
Surrogate: 2-Fluorobiphenyl	4830		ug/Kg wet	5000		97	30-130			
Surrogate: Nitrobenzene-d5	4760		ug/Kg wet	5000		95	30-130			
Surrogate: p-Terphenyl-d14	4390		ug/Kg wet	5000		88	30-130			

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8270C Polynuclear Aromatic Hydrocarbons

Batch BF62605 - 3541

LCS Dup										
2-Methylnaphthalene	4000	500	ug/Kg wet	5000		80	40-140	0	30	
Acenaphthene	4160	500	ug/Kg wet	5000		83	40-140	2	30	
Acenaphthylene	3980	500	ug/Kg wet	5000		80	40-140	1	30	
Anthracene	4450	500	ug/Kg wet	5000		89	40-140	1	30	
Benzo(a)anthracene	4230	500	ug/Kg wet	5000		85	40-140	1	30	
Benzo(a)pyrene	4470	500	ug/Kg wet	5000		89	40-140	1	30	
Benzo(b)fluoranthene	3010	500	ug/Kg wet	5000		60	40-140	3	30	
Benzo(g,h,i)perylene	4650	500	ug/Kg wet	5000		93	40-140	1	30	
Benzo(k)fluoranthene	4070	500	ug/Kg wet	5000		81	40-140	2	30	
Chrysene	4300	500	ug/Kg wet	5000		86	40-140	1	30	
Dibenzo(a,h)Anthracene	5210	500	ug/Kg wet	5000		104	40-140	1	30	
Fluoranthene	4420	500	ug/Kg wet	5000		88	40-140	3	30	
Fluorene	4260	500	ug/Kg wet	5000		85	40-140	6	30	
Indeno(1,2,3-cd)Pyrene	4940	500	ug/Kg wet	5000		99	40-140	1	30	
Naphthalene	4140	500	ug/Kg wet	5000		83	40-140	1	30	
Phenanthrene	4180	500	ug/Kg wet	5000		84	40-140	0	30	
Pyrene	3920	500	ug/Kg wet	5000		78	40-140	3	30	

Surrogate: 1,2-Dichlorobenzene-d4	4300		ug/Kg wet	5000		86	30-130			
Surrogate: 2-Fluorobiphenyl	4770		ug/Kg wet	5000		95	30-130			
Surrogate: Nitrobenzene-d5	4780		ug/Kg wet	5000		96	30-130			
Surrogate: p-Terphenyl-d14	4350		ug/Kg wet	5000		87	30-130			

Matrix Spike	Source: 0606373-10									
2-Methylnaphthalene	5040	631	ug/Kg dry	6310	ND	80	40-140			
Acenaphthene	5090	631	ug/Kg dry	6310	ND	81	40-140			
Acenaphthylene	4900	631	ug/Kg dry	6310	ND	78	40-140			
Anthracene	5620	631	ug/Kg dry	6310	ND	89	40-140			
Benzo(a)anthracene	5400	631	ug/Kg dry	6310	ND	86	40-140			
Benzo(a)pyrene	5620	631	ug/Kg dry	6310	ND	89	40-140			
Benzo(b)fluoranthene	4170	631	ug/Kg dry	6310	ND	66	40-140			
Benzo(g,h,i)perylene	4400	631	ug/Kg dry	6310	ND	70	40-140			
Benzo(k)fluoranthene	6420	631	ug/Kg dry	6310	ND	102	40-140			
Chrysene	5400	631	ug/Kg dry	6310	ND	86	40-140			
Dibenzo(a,h)Anthracene	5120	631	ug/Kg dry	6310	ND	81	40-140			
Fluoranthene	5240	631	ug/Kg dry	6310	ND	83	40-140			
Fluorene	5150	631	ug/Kg dry	6310	ND	82	40-140			
Indeno(1,2,3-cd)Pyrene	4930	631	ug/Kg dry	6310	ND	78	40-140			
Naphthalene	5080	631	ug/Kg dry	6310	ND	81	40-140			
Phenanthrene	5320	631	ug/Kg dry	6310	ND	84	40-140			
Pyrene	5000	631	ug/Kg dry	6310	ND	79	40-140			

Surrogate: 1,2-Dichlorobenzene-d4	5030		ug/Kg dry	6310		80	30-130			
Surrogate: 2-Fluorobiphenyl	5640		ug/Kg dry	6310		89	30-130			
Surrogate: Nitrobenzene-d5	5580		ug/Kg dry	6310		88	30-130			
Surrogate: p-Terphenyl-d14	5290		ug/Kg dry	6310		84	30-130			

Matrix Spike Dup Source: 0606373-10

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>8270C Polynuclear Aromatic Hydrocarbons</b>										
<b>Batch BF62605 - 3541</b>										
2-Methylnaphthalene	4890	638	ug/Kg dry	6380	ND	77	40-140	4	30	
Acenaphthene	5110	638	ug/Kg dry	6380	ND	80	40-140	1	30	
Acenaphthylene	4900	638	ug/Kg dry	6380	ND	77	40-140	1	30	
Anthracene	5530	638	ug/Kg dry	6380	ND	87	40-140	2	30	
Benzo(a)anthracene	5390	638	ug/Kg dry	6380	ND	84	40-140	2	30	
Benzo(a)pyrene	5670	638	ug/Kg dry	6380	ND	89	40-140	0	30	
Benzo(b)fluoranthene	4790	638	ug/Kg dry	6380	ND	75	40-140	13	30	
Benzo(g,h,i)perylene	4530	638	ug/Kg dry	6380	ND	71	40-140	1	30	
Benzo(k)fluoranthene	5750	638	ug/Kg dry	6380	ND	90	40-140	12	30	
Chrysene	5290	638	ug/Kg dry	6380	ND	83	40-140	4	30	
Dibenzo(a,h)Anthracene	5420	638	ug/Kg dry	6380	ND	85	40-140	5	30	
Fluoranthene	5550	638	ug/Kg dry	6380	ND	87	40-140	5	30	
Fluorene	5210	638	ug/Kg dry	6380	ND	82	40-140	0	30	
Indeno(1,2,3-cd)Pyrene	5080	638	ug/Kg dry	6380	ND	80	40-140	3	30	
Naphthalene	5110	638	ug/Kg dry	6380	ND	80	40-140	1	30	
Phenanthrene	5200	638	ug/Kg dry	6380	ND	82	40-140	2	30	
Pyrene	4620	638	ug/Kg dry	6380	ND	72	40-140	9	30	
Surrogate: 1,2-Dichlorobenzene-d4	5020		ug/Kg dry	6380		79	30-130			
Surrogate: 2-Fluorobiphenyl	5630		ug/Kg dry	6380		88	30-130			
Surrogate: Nitrobenzene-d5	5640		ug/Kg dry	6380		88	30-130			
Surrogate: p-Terphenyl-d14	4860		ug/Kg dry	6380		76	30-130			

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

#### Batch BG60519 - 3541

<b>Blank</b>										
1-Methylnaphthalene	ND	25.0	ug/Kg wet							
2-Methylnaphthalene	ND	25.0	ug/Kg wet							
Acenaphthene	ND	25.0	ug/Kg wet							
Acenaphthylene	ND	25.0	ug/Kg wet							
Anthracene	ND	25.0	ug/Kg wet							
Benzo(a)anthracene	ND	25.0	ug/Kg wet							
Benzo(a)pyrene	ND	25.0	ug/Kg wet							
Benzo(b)fluoranthene	ND	25.0	ug/Kg wet							
Benzo(g,h,i)perylene	ND	25.0	ug/Kg wet							
Benzo(k)fluoranthene	ND	25.0	ug/Kg wet							
Chrysene	ND	25.0	ug/Kg wet							
Dibenzo(a,h)Anthracene	ND	25.0	ug/Kg wet							
Fluoranthene	ND	25.0	ug/Kg wet							
Fluorene	ND	25.0	ug/Kg wet							
Indeno(1,2,3-cd)Pyrene	ND	25.0	ug/Kg wet							
Naphthalene	ND	25.0	ug/Kg wet							
Phenanthrene	ND	25.0	ug/Kg wet							
Pyrene	ND	25.0	ug/Kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	4030		ug/Kg wet	5000		81	30-130			
Surrogate: 2-Fluorobiphenyl	5040		ug/Kg wet	5000		101	30-130			

# Semi-Volatile Organics Calibration Data

## ANALYSIS SEQUENCE

BPF0039

Instrument: SVOAMS2

Calibration ID: ~~UNASSIGNED~~ 5V2K6

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0039-TUN1	QC		1		6E31075		
BPF0039-CAL1	QC		2		6E31076	6E26058	
BPF0039-CAL2	QC		3		6E31077	6E26058	
BPF0039-CAL3	QC		4		6E31078	6E26058	
BPF0039-CAL4	QC		5		6E31079	6E26058	
BPF0039-CAL5	QC		6		6E31080	6E26058	
BPF0039-CAL6	QC		7		6E31081	6E26058	
BPF0039-CAL7	QC		8		6E31082	6E26058	
BPF0039-CAL8	QC		9		6E31083	6E26058	
BPF0039-SCV1	QC		10		6E31084	6E26058	

Samples Loaded By

Date

Data Prepared By

Date

**ESS LABORATORY  
GCMS2 RUN LOG**

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/3/06	15	SV2 2956	BE63026-BIK3	PAH2ND	✓	JLS
6/3/06	16	SV2 57	0605455-04	PAH2ND	✓	JLS
6/3/06	17	SV2 58	0605455-05	PAH2ND	✓ BR10X	JLS
6/5/06	1	SV2 59	BPF0027-TUN	DFTPP	✓ 6E31075	JLS
6/5/06	2	SV2 60	BPF0027-COV1	PAH2ND	✓ 6E31107	JLS
6/5/06	3	SV2 61	0605455-05	PAH2ND	10X ✓	JLS
6/5/06	1	SV2 62	<del>BPF0039-TUN</del> BPF0039-TUN	DFTPP	6E31075	MS/EEB
	2	SV2 63	BPF0039-CAL1	SV2KG	6E31076	MS/EEB
	3	SV2 64	-CAL2		77	
	4	SV2 65	-CAL3		78	
	5	SV2 66	-CAL4		79	
	6	SV2 67	-CAL5		80	
	7	SV2 68	-CAL6		81	
	8	SV2 69	-CAL7		82	
	9	SV2 70	-CAL8		83	
6/5/06	10	SV2 71	BPF0039-SLV1	SV2KG	6E31084	MS/EEB
6/6/06	1	SV2 72	BPF0044-TUN	DFTPP	6E31075	JLS
	2	SV2 73	BPF0044-CAL1	SV2KG	6F06044	
	3	SV2 74	BF60226-BLW1			
	4	SV2 75	BF60226-BSP1			
	5	SV2 76	BF60226-BSP1			
	6	SV2 77	0606030-01			
	7	SV2 78	0605467-01			
	8	SV2 79	0605467-02			
	9	SV2 80	0605454-01 <sup>03</sup> 15/6/06			
	10	SV2 81	0605467-03			
	11	SV2 82	0605467-04			
	12	SV2 83	0605467-05			
6/6/06	13	SV2 84	BF60510-BLW1	SV2KG		MS

Control Number 60.0019-0601A

Page \_\_\_\_\_

Response Factor Report GC/MS 2

Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)  
 Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)  
 Last Update : Wed Jul 19 20:51:41 2006  
 Response via : Initial Calibration

Calibration Files

5 =SV212963.D 10 =SV212964.D 50 =SV212966.D  
 80 =SV212967.D 120 =SV212968.D 160 =SV212969.D

Compound	5	10	50	80	120	160	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	-----ISTD-----							
2) N-Nitrosodimethylam	0.314	0.337	0.368	0.366	0.362	0.379	0.358	6.26
3) Pyridine	0.504	0.601	0.624	0.648	0.633	0.685	0.626	9.26
4) S 2-Fluorophenol (SUR	1.334	1.300	1.299	1.290	1.285	1.300	1.301	1.25
5) bis(2-Chloroethyl)e	1.155	1.165	1.124	1.116	1.105	1.094	1.117	3.21
6) S Phenol-d5 (SURRE)	1.693	1.718	1.722	1.696	1.633	1.586	1.669	3.28
7) 2-Chlorophenol	1.438	1.409	1.412	1.405	1.357	1.334	1.386	2.99
8) C Phenol	2.186	2.195	2.069	2.117	2.037	1.991	2.082	4.23#
9) Aniline	1.699	1.856	1.946	2.041	1.983	1.642	1.867	7.49
10) S 2-Chlorophenol-d4(S	1.449	1.433	1.413	1.412	1.362	1.344	1.395	2.88
11) 1,3-Dichlorobenzene	1.387	1.372	1.372	1.425	1.302	1.293	1.344	4.48
12) C 1,4-Dichlorobenzene	1.852	1.769	1.722	1.639	1.666	1.652	1.713	4.22#
13) S 1,2 Dichlorobenzene	0.970	0.925	0.897	0.883	0.841	0.816	0.876	6.77
14) 1,2-Dichlorobenzene	1.516	1.488	1.443	1.435	1.363	1.328	1.411	5.78
15) Benzyl Alcohol	1.189	1.239	1.230	1.234	1.197	1.154	1.208	2.34
16) bis(2-chloroisoprop	2.805	2.762	2.654	2.586	2.480	2.403	2.593	5.79
17) 2-Methylphenol	1.250	1.279	1.266	1.263	1.211	1.176	1.238	2.85
18) Acetophenone	1.800	1.807	1.739	1.703	1.552	1.474	1.658	8.92
19) P n-Nitroso-di-n-prop	1.132	1.137	1.159	1.128	1.100	1.035	1.112	3.43
20) Hexachloroethane	0.682	0.652	0.631	0.631	0.610	0.606	0.629	4.32
21) 3+4-Methylphenol	1.336	1.345	1.328	1.308	1.199	1.135	1.260	7.85
22) Naphthalene-d8	-----ISTD-----							
23) S Nitrobenzene-d5 (SU	0.395	0.389	0.387	0.383	0.383	0.376	0.385	2.00
24) Nitrobenzene	0.413	0.408	0.399	0.397	0.392	0.387	0.397	3.15
25) Isophorone	0.707	0.725	0.734	0.726	0.717	0.704	0.720	1.57
26) C 2-Nitrophenol	0.192	0.198	0.213	0.212	0.212	0.210	0.206	3.82#
27) Benzoic Acid	0.190	0.229	0.275	0.302	0.309	0.307	0.272	16.61
28) 2,4-Dimethylphenol	0.324	0.325	0.329	0.330	0.323	0.310	0.322	2.59
29) bis(2-Chloroethoxy)	0.458	0.460	0.462	0.461	0.452	0.439	0.453	2.40
30) C 2,4-Dichlorophenol	0.266	0.269	0.276	0.282	0.277	0.271	0.272	2.25#
31) 1,2,4-Trichlorobenz	0.305	0.297	0.293	0.287	0.281	0.275	0.287	4.30
32) Naphthalene	1.076	1.046	1.017	0.998	0.944	0.921	0.986	7.04
33) 4-Chloroaniline	0.398	0.428	0.459	0.468	0.435	0.415	0.432	6.66
34) C Hexachlorobutadiene	0.145	0.140	0.141	0.137	0.133	0.132	0.136	5.44#
35) C 4-Chloro-3-methylph	0.281	0.296	0.291	0.302	0.299	0.291	0.293	2.20#
36) 2-Methylnaphthalene	0.650	0.673	0.639	0.644	0.604	0.585	0.626	6.13
37) 1-Methylnaphthalene	0.665	0.670	0.639	0.643	0.583	0.575	0.621	7.80
38) Acenaphthene-d10	-----ISTD-----							
39) P Hexachlorocyclopent	0.264	0.262	0.280	0.279	0.281	0.287	0.278	3.40
40) C 2,4,6-Trichlorophen	0.344	0.355	0.374	0.369	0.354	0.353	0.360	2.81#
41) 2,4,5-Trichlorophen	0.355	0.369	0.392	0.393	0.387	0.392	0.383	3.60
42) S 2-Fluorobiphenyl (S	1.267	1.277	1.312	1.244	1.176	1.136	1.229	5.59
43) Biphenyl	1.509	1.490	1.472	1.378	1.258	1.172	1.358	12.38
44) 2-Chloronaphthalene	1.444	1.375	1.344	1.295	1.196	1.100	1.274	11.51
45) Dimethylphthalate	1.318	1.346	1.345	1.317	1.252	1.222	1.300	3.90
46) Acenaphthylene	1.892	1.966	1.946	1.898	1.782	1.698	1.845	7.75
47) 2,6-Dinitrotoluene	0.351	0.354	0.348	0.344	0.321	0.312	0.333	7.38
48) 2-Nitroaniline	0.514	0.535	0.439	0.439	0.438	0.448	0.474	9.03
49) C Acenaphthene	1.267	1.255	1.233	1.218	1.152	1.127	1.199	5.26#
50) P 2,4-Dinitrophenol	0.088	0.131	0.182	0.198	0.202	0.216	0.176	26.29



Response Factor Report GC/MS 2

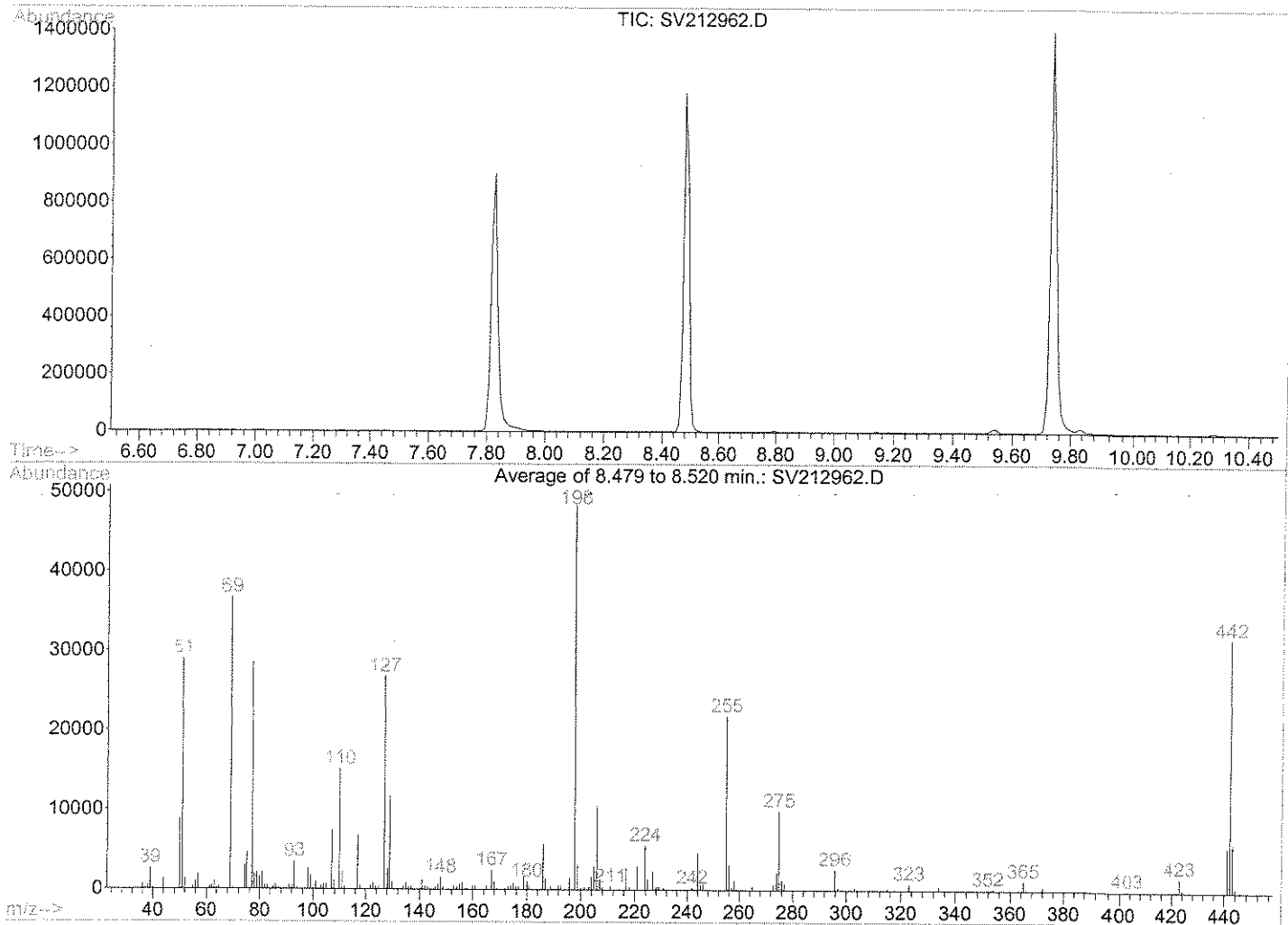
Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)  
 Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)  
 Last Update : Wed Jul 19 20:51:41 2006  
 Response via : Initial Calibration

Calibration Files

5 =SV212963.D 10 =SV212964.D 50 =SV212966.D  
 80 =SV212967.D 120 =SV212968.D 160 =SV212969.D

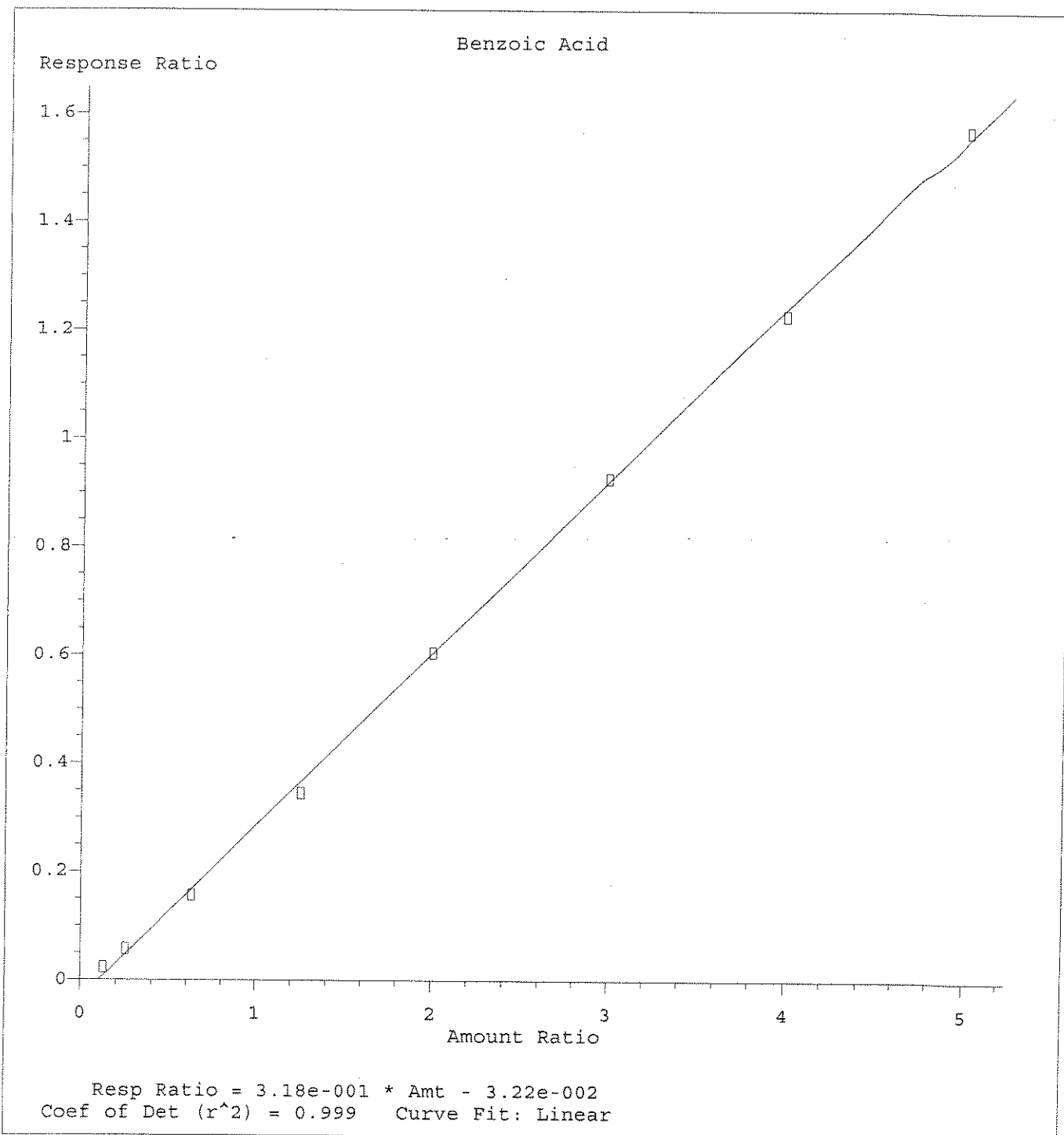
Compound	5	10	50	80	120	160	Avg	%RSD
51) Dibenzofuran	1.660	1.683	1.619	1.616	1.539	1.542	1.601	4.22
52) P 4-Nitrophenol		0.129	0.146	0.157	0.155	0.166	0.152	9.21
53) 3-Nitroaniline	0.362	0.382	0.397	0.417	0.402	0.415	0.398	5.08
54) 2,4-Dinitrotoluene	0.412	0.427	0.428	0.440	0.428	0.441	0.431	2.27
55) Fluorene	1.325	1.342	1.266	1.227	1.094	1.042	1.230	9.62
56) 2,3,4,6-Tetrachloro	0.260	0.279	0.289	0.297	0.285	0.287	0.283	3.83
57) Diethylphthalate	1.312	1.377	1.351	1.375	1.315	1.307	1.337	2.73
58) 4-Chloro-phenyl-phe	0.592	0.579	0.550	0.530	0.471	0.435	0.532	10.96
59) Phenanthrene-d10	-----ISTD-----							
60) 4-Nitroaniline	0.248	0.268	0.284	0.286	0.285	0.288	0.278	5.30
61) 4,6-Dinitro-2-methyl	0.095	0.135	0.173	0.179	0.179	0.182	0.161	19.32
62) C n-Nitrosodiphenylam	0.746	0.776	0.823	0.788	0.750	0.715	0.764	5.59#
63) Azobenzene	1.189	1.162	1.193	1.157	1.219	1.173	1.177	1.83
64) S 2,4,6-Tribromopheno	0.102	0.107	0.117	0.117	0.114	0.110	0.111	4.79
65) 4-Bromophenyl-pheny	0.229	0.216	0.226	0.219	0.211	0.202	0.215	4.86
66) Hexachlorobenzene	0.250	0.248	0.243	0.236	0.224	0.214	0.233	7.23
67) C Pentachlorophenol	0.094	0.112	0.134	0.135	0.136	0.137	0.127	12.51#
68) Phenanthrene	1.269	1.239	1.219	1.194	1.145	1.123	1.189	5.39
69) Anthracene	1.208	1.212	1.234	1.215	1.173	1.132	1.183	4.92
70) Carbazole	1.057	1.125	1.147	1.133	1.105	1.114	1.113	2.88
71) Di-n-butylphthalate	1.349	1.572	1.654	1.644	1.569	1.565	1.568	6.31
72) C Fluoranthene	0.962	1.015	1.043	1.063	1.039	1.067	1.034	3.24#
73) Benzidine		0.110	0.312	0.399	0.410	0.467	0.346	36.84
74) Chrysene-d12	-----ISTD-----							
75) Pyrene	1.841	1.872	1.863	1.754	1.699	1.635	1.768	4.83
76) S Terphenyl-d14 (SURR	1.026	1.104	1.125	1.059	1.031	0.995	1.051	4.22
77) Butylbenzylphthalat	0.784	0.938	1.037	1.010	0.992	0.985	0.966	8.27
78) 3,3'-Dichlorobenzid	0.263	0.331	0.446	0.465	0.466	0.468	0.416	18.68
79) Benzo(a)anthracene	1.186	1.229	1.313	1.324	1.300	1.321	1.287	4.17
80) Chrysene	1.270	1.265	1.267	1.263	1.249	1.253	1.266	0.96
81) bis(2-Ethylhexyl)ph	0.947	1.100	1.359	1.354	1.317	1.311	1.239	11.98
82) Perylene-d12	-----ISTD-----							
83) C Di-n-octylphthalate	1.050	1.371	2.182	2.321	2.323	2.453	1.978	27.18#
84) Benzo(b)fluoranthen	0.880	0.949	1.310	1.336	1.348		1.140	18.82
85) Benzo(k)fluoranthen	1.517	1.575	1.426	1.355	1.272		1.457	8.87
86) C Benzo(a)pyrene	1.094	0.919	1.122	1.152	1.188	1.186	1.126	7.98#
87) Indeno(1,2,3-cd)pyr	0.816	0.843	1.093	1.095	1.089	0.986	1.002	11.28
88) Dibenzo(a,h)anthrac	0.601	0.669	0.897	0.912	0.920	0.818	0.816	14.51
89) Benzo(g,h,i)perylen	0.831	0.796	0.911	0.906	0.906	0.794	0.864	6.53

Data File : Q:\SVOA\MS2\_ME\ME0506\ME060506\SV212962.D Vial: 1  
 Acq On : 5 Jun 2006 6:47 pm Operator: JLS  
 Sample : BPF0039-TUN1 Inst : GC/MS 2  
 Misc : 10 Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)  
 Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)

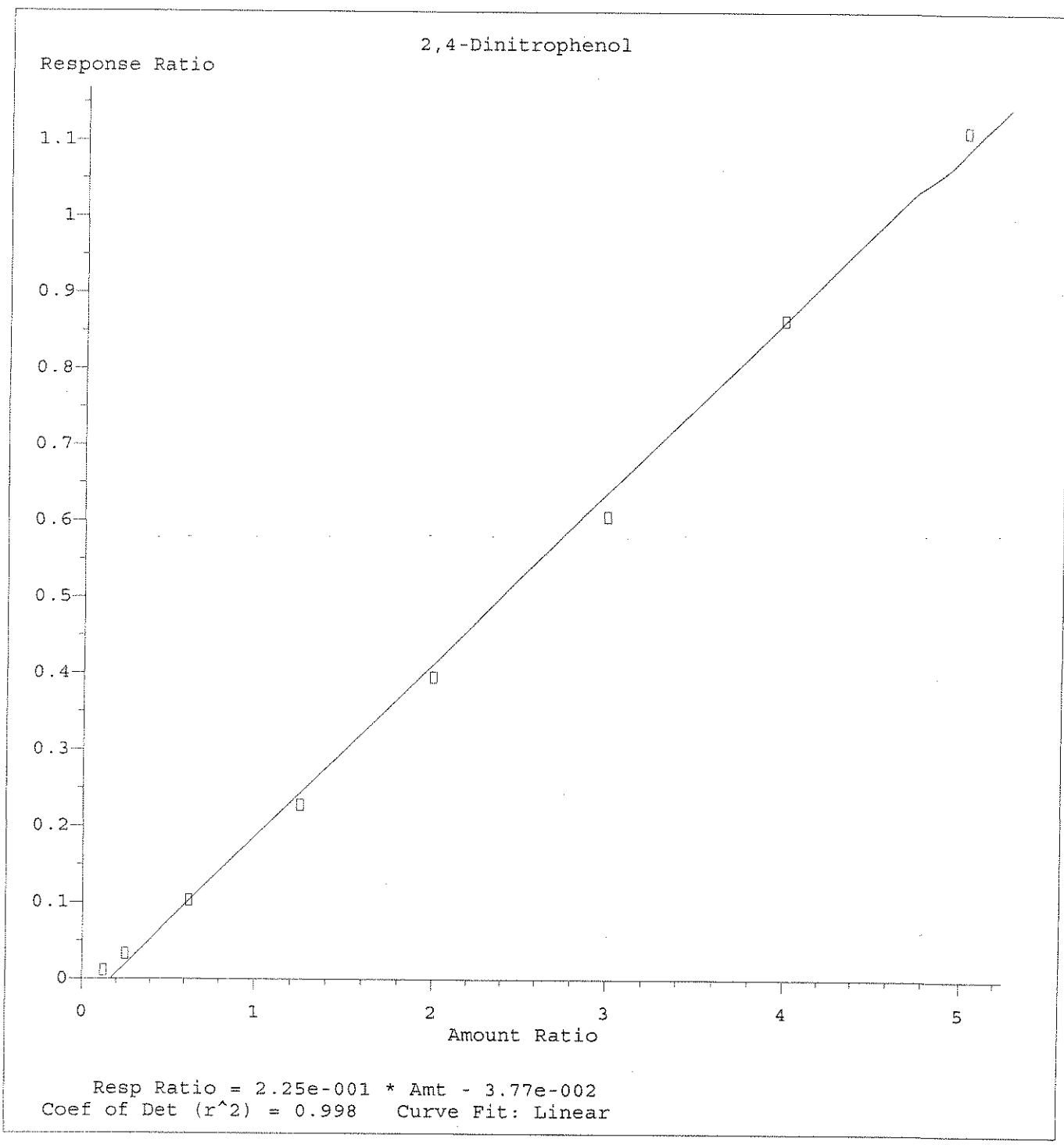


Spectrum Information: Average of 8.479 to 8.520 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	59.9	28972	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	76.0	36742	PASS
70	69	0.00	2	0.3	118	PASS
127	198	40	60	55.4	26789	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	48328	PASS
199	198	5	9	6.5	3142	PASS
275	198	10	30	20.5	9913	PASS
365	198	1	100	2.5	1199	PASS
441	443	0.01	100	93.3	5580	PASS
442	198	40	100	65.9	31832	PASS
443	442	17	23	18.8	5980	PASS



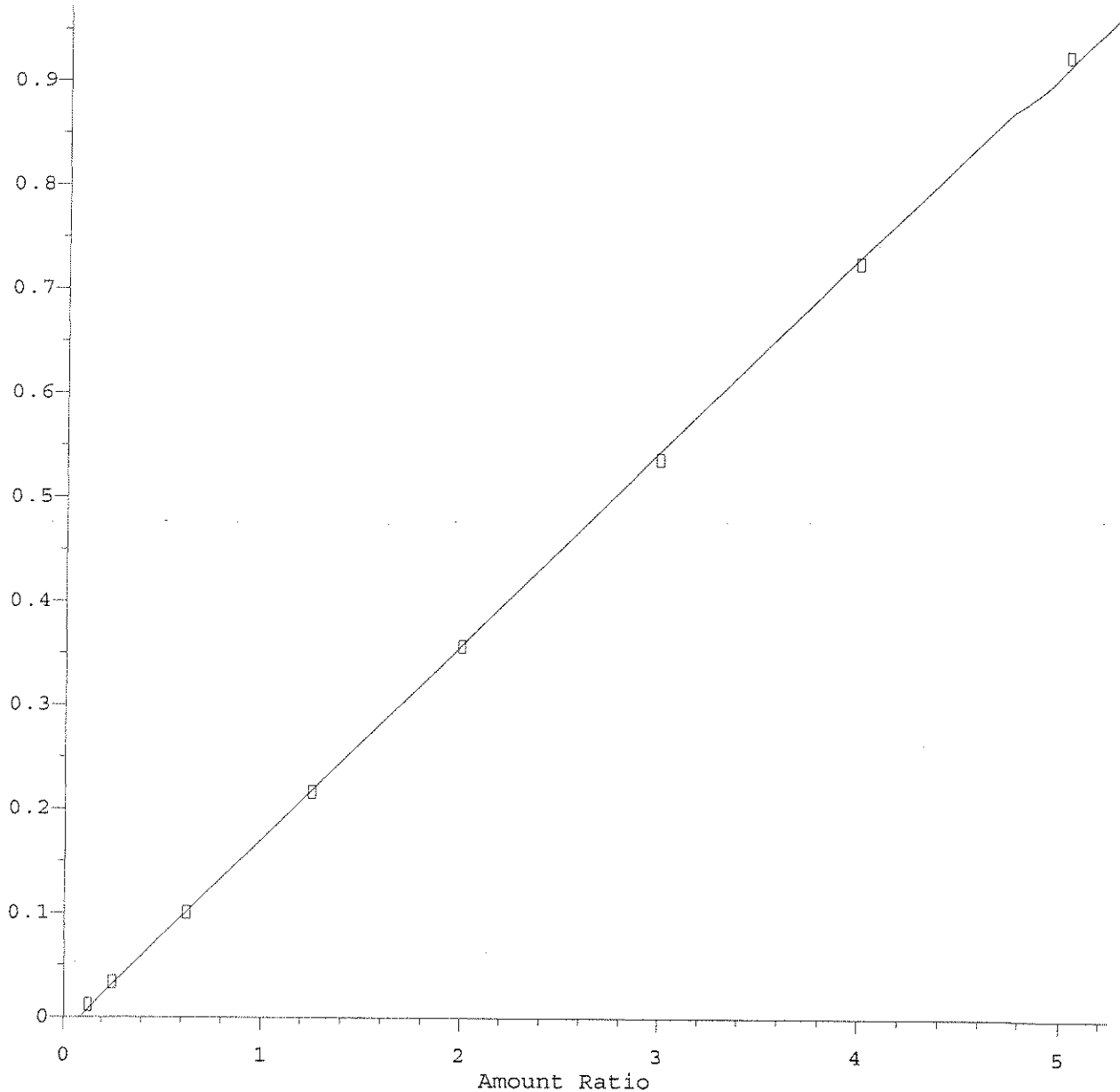
Method Name: C:\HPCHEM\1\METHODS\SV2KG.M  
Calibration Table Last Updated: Wed Jul 19 20:51:41 2006



Method Name: C:\HPCHEM\1\METHODS\SV2KG.M  
Calibration Table Last Updated: Wed Jul 19 20:51:41 2006

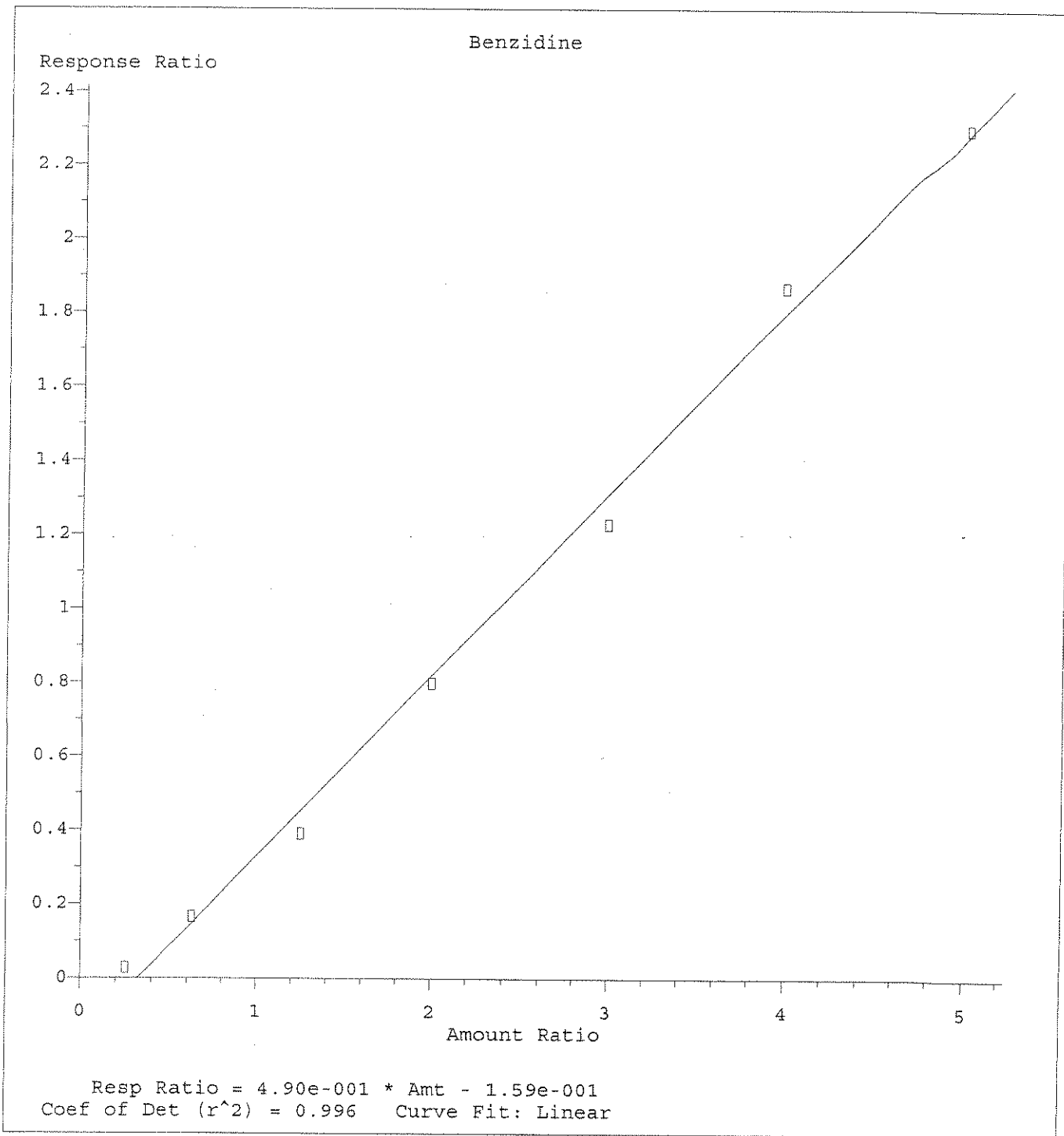
4,6-Dinitro-2-methylphenol

Response Ratio



Resp Ratio = 1.87e-001 \* Amt - 1.53e-002  
Coef of Det (r<sup>2</sup>) = 1.000 Curve Fit: Linear

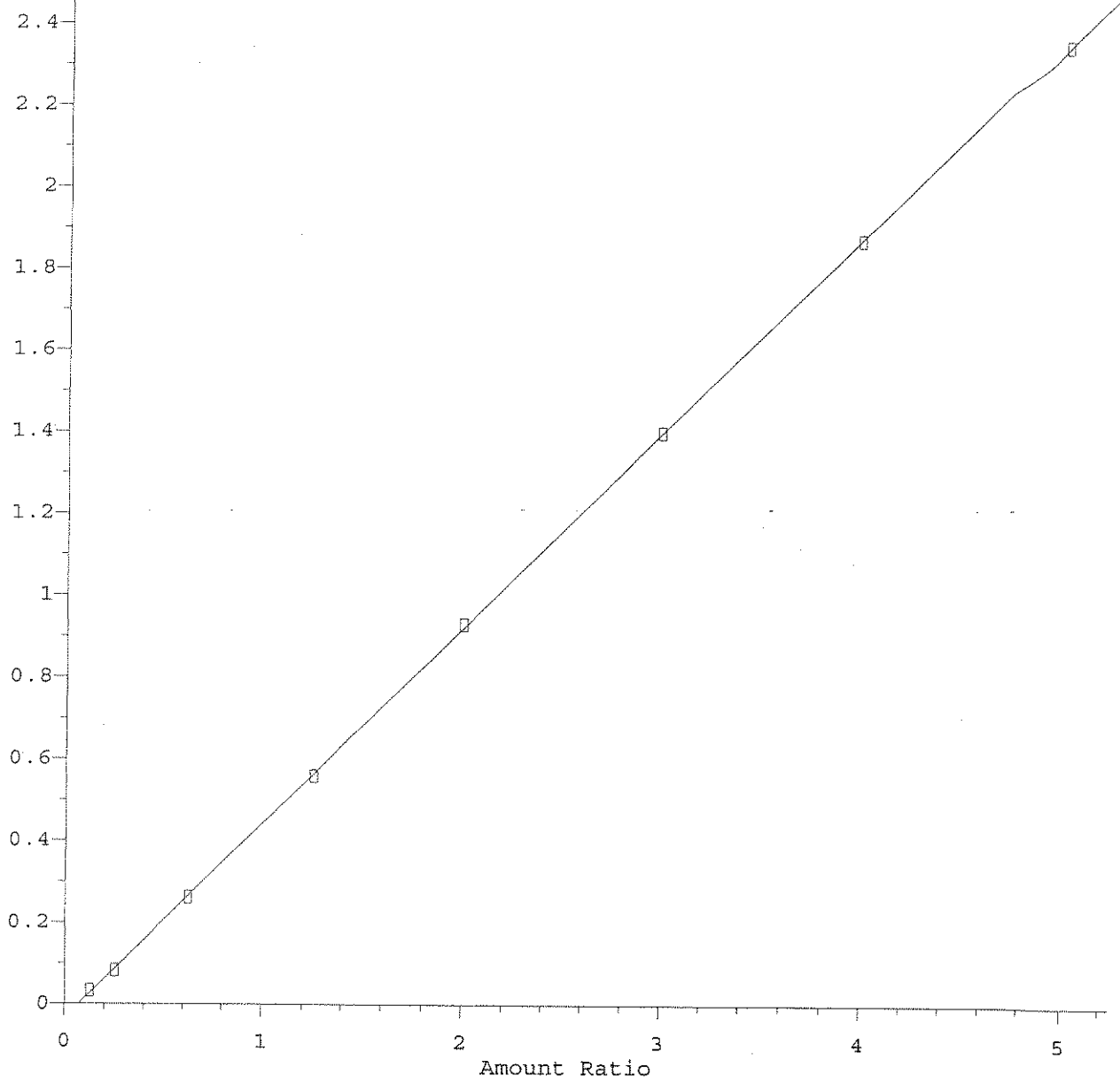
Method Name: C:\HPCHEM\1\METHODS\SV2KG.M  
Calibration Table Last Updated: Wed Jul 19 20:51:41 2006



Method Name: C:\HPCHEM\1\METHODS\SV2KG.M  
Calibration Table Last Updated: Wed Jul 19 20:51:41 2006

3,3'-Dichlorobenzidine

Response Ratio

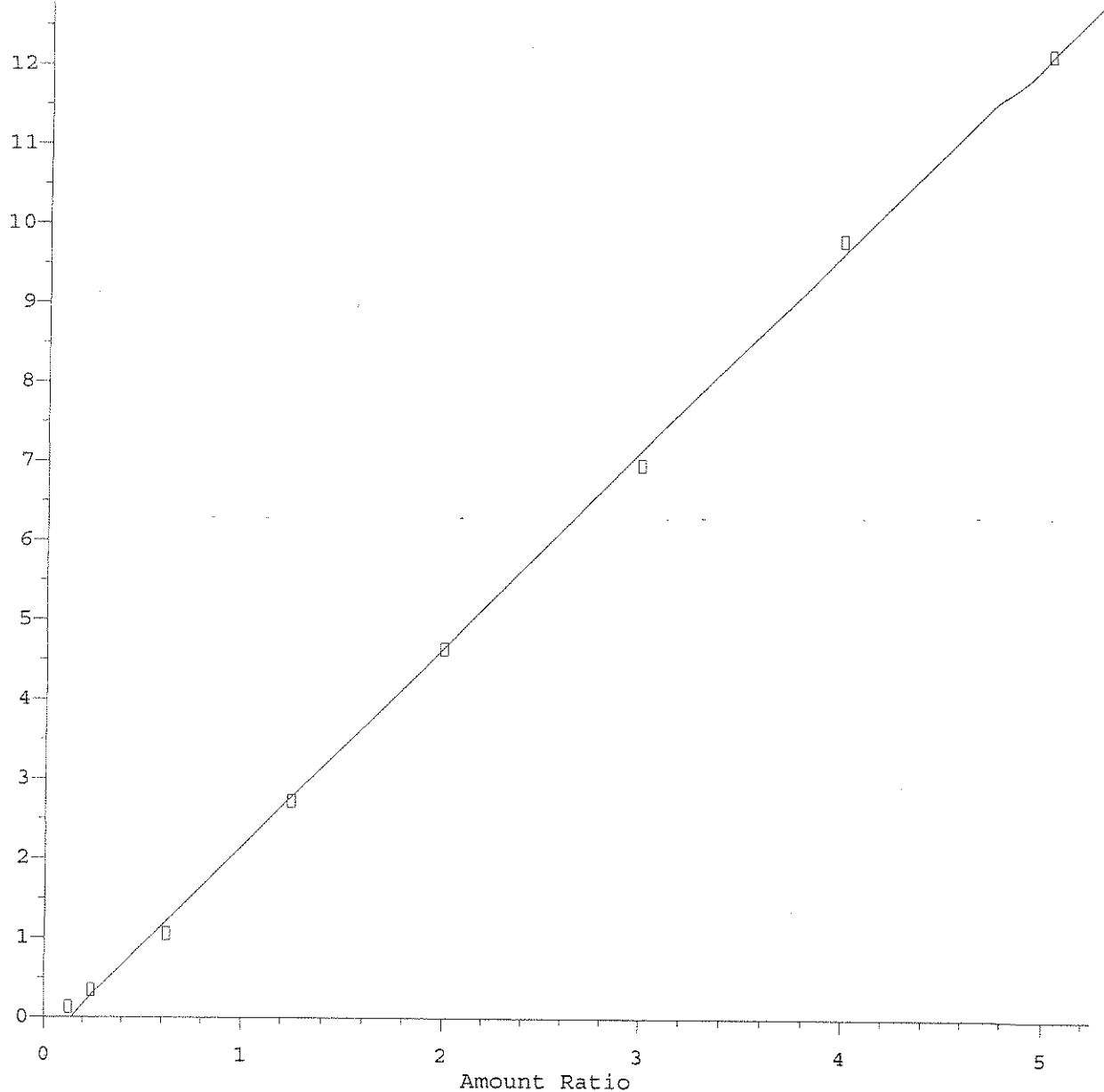


Resp Ratio = 4.77e-001 \* Amt - 3.27e-002  
Coef of Det (r<sup>2</sup>) = 1.000 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\SV2KG.M  
Calibration Table Last Updated: Wed Jul 19 20:51:41 2006

Di-n-octylphthalate

Response Ratio



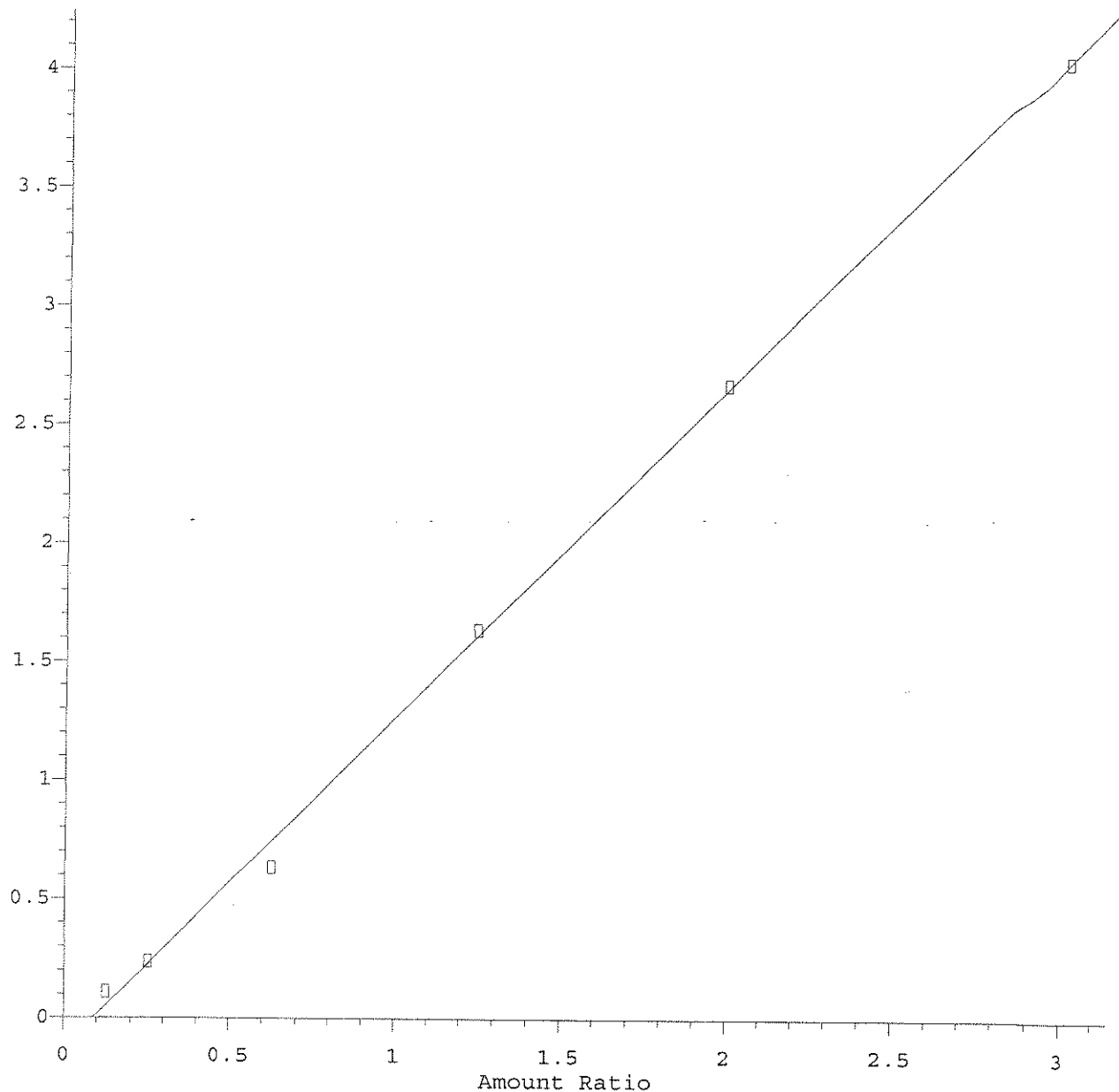
Resp Ratio = 2.50e+000 \* Amt - 3.48e-001  
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\SV2KG.M  
Calibration Table Last Updated: Wed Jul 19 20:51:41 2006



Benzo(b) fluoranthene

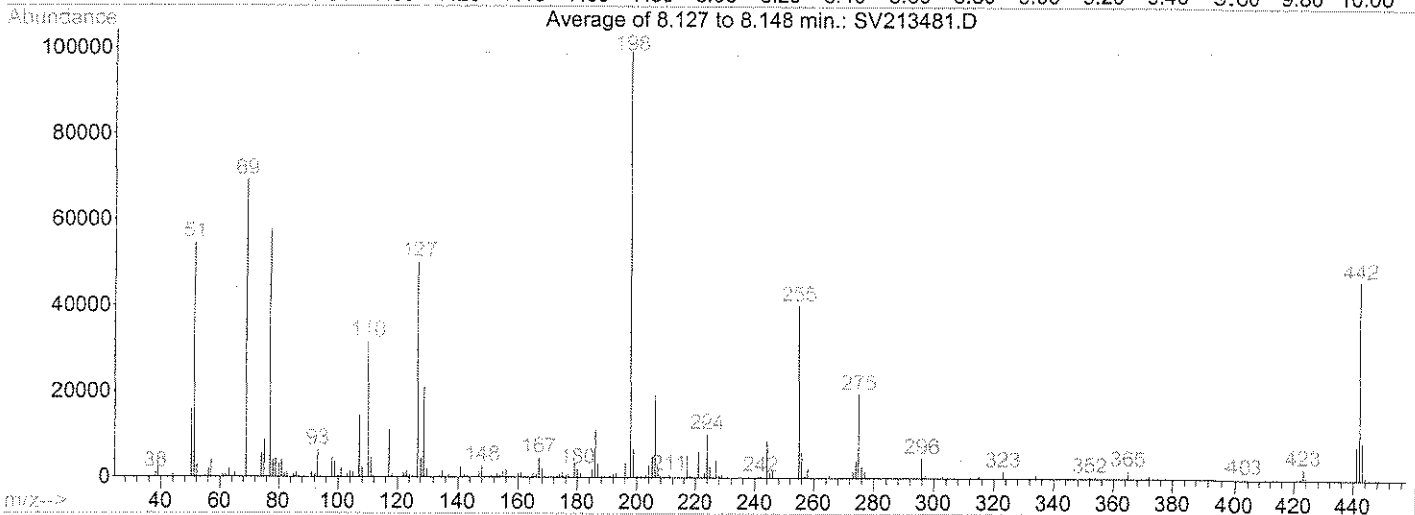
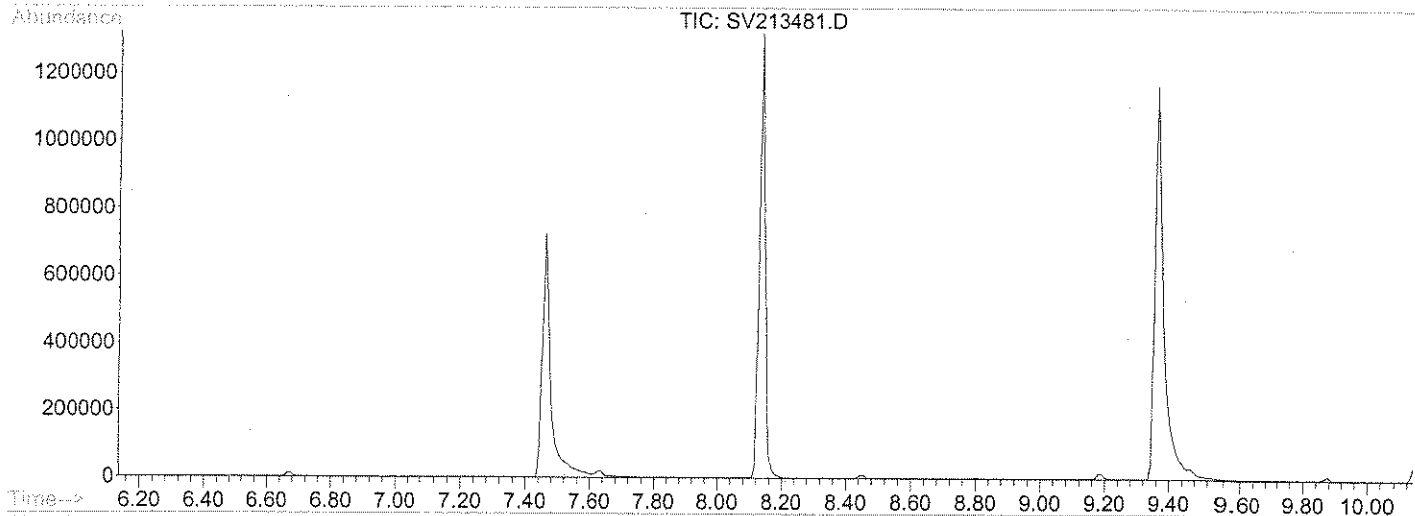
Response Ratio



Resp Ratio = 1.39e+000 \* Amt - 1.23e-001  
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\SV2KG.M  
Calibration Table Last Updated: Wed Jul 19 20:51:41 2006

Data File : Q:\SVOA\MS2\_ME\ME0606\ME062906\SV213481.D Vial: 1  
 Acq On : 29 Jun 2006 6:12 pm Operator: VSC  
 Sample : BPF0250-TUN1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Method : C:\HPCHEM\1\METHODS\PAH2DY.M (RTE Integrator)  
 Title : LL PAH ELEMENT ID 0606036



Spectrum Information: Average of 8.127 to 8.148 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	54.9	54392	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	69.8	69139	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	50.5	49984	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	99045	PASS
199	198	5	9	6.7	6659	PASS
275	198	10	30	19.7	19506	PASS
365	198	1	100	1.9	1898	PASS
441	443	0.01	100	89.8	7832	PASS
442	198	40	100	46.6	46172	PASS
443	442	17	23	18.9	8726	PASS

## ANALYSIS SEQUENCE

BPF0250

Instrument: SVOAMS2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0250-TUN1	QC		1		6F13071		
BPF0250-CCV1	QC		2		6F16053	6F16045	
BF62605-BLK1	QC		3			6F16045	
BF62605-BS1	QC		4			6F16045	
BF62605-BSD1	QC		5			6F16045	
BF62605-MS1	QC		6			6F16045	
BF62605-MSD1	QC		7			6F16045	
0606373-01	SVOC: 8270/3541 ppb PAH	B	8			6F16045	MACTEC Engineering & Consulting, Inc
0606373-02	SVOC: 8270/3541 ppb PAH	B	9			6F16045	MACTEC Engineering & Consulting, Inc
0606373-03	SVOC: 8270/3541 ppb PAH	B	10			6F16045	MACTEC Engineering & Consulting, Inc
0606373-04	SVOC: 8270/3541 ppb PAH	B	11			6F16045	MACTEC Engineering & Consulting, Inc
0606373-05	SVOC: 8270/3541 ppb PAH	B	12			6F16045	MACTEC Engineering & Consulting, Inc
0606373-06	SVOC: 8270/3541 ppb PAH	B	13			6F16045	MACTEC Engineering & Consulting, Inc
0606373-07	SVOC: 8270/3541 ppb PAH	B	14			6F16045	MACTEC Engineering & Consulting, Inc
0606373-08	SVOC: 8270/3541 ppb PAH	B	15			6F16045	MACTEC Engineering & Consulting, Inc
0606373-09	SVOC: 8270/3541 ppb PAH	B	16			6F16045	MACTEC Engineering & Consulting, Inc
0606373-10	SVOC: 8270/3541 ppb PAH	B	17			6F16045	MACTEC Engineering & Consulting, Inc
0606373-12	SVOC: 8270/3541 ppb PAH	B	18			6F16045	MACTEC Engineering & Consulting, Inc
0606373-13	SVOC: 8270/3541 ppb PAH	B	19			6F16045	MACTEC Engineering & Consulting, Inc
0606373-14	SVOC: 8270/3541 ppb PAH	B	20			6F16045	MACTEC Engineering & Consulting, Inc
0606373-15	SVOC: 8270/3541 ppb PAH	B	21			6F16045	MACTEC Engineering & Consulting, Inc
0606373-16	SVOC: 8270/3541 ppb PAH	B	22			6F16045	MACTEC Engineering & Consulting, Inc

# ESS LABORATORY GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/28/06	10	SV2 134 48	0606371-01	✓ PAHADY		NSC
	11	SV2 49	0608746-01	✓		
	12	SV2 50	-02	✓		
	13	SV2 51	-03	✓		
	14	SV2 52	-05	✓		
	15	SV2 53	-06	✓		
	16	SV2 54	-07	✓		
	17	SV2 55	-08	✓		
	18	SV2 56	0606346-09	✓		
	19	SV2 57	0606321-01	✓	10x	
	20	SV2 58	-01	✓	100x RR 500X	
	21	SV2 59	-02	✓	20x	
	22	SV2 60	-03	✓	10X	
6/28/06	23	SV2 61	0606321-04	✓ PAHADY	10X	NSC
6/29/06	1	SV2 62	BPF0242-Turn1	XOPTPP		NSC
	2	SV2 63	BPF0242-CCV1	PAHADY		
	2	SV2 64	BPF0242-CCV1	✓		
	3	SV2 65	BPF2839-BW1	✓		
	4	SV2 66	BPF2839-BW1	✓		
	5	SV2 67	BPF2839-BW1	✓		
	6	SV2 68	0606346-15	✓		
	7	SV2 69	-14	✓		
	8	SV2 70	-13	✓		
	9	SV2 71	-11	✓		
	10	SV2 72	0606346-10	✓		
	11	SV2 73	0606372-03	✓		
	12	SV2 74	0606372-02	✓		
	13	SV2 75	0606372-01	✓		
6/29/06	14	SV2 76	0606383-15	✓ PAHADY		NSC

Control Number 60.0019-0601A

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# ESS LABORATORY GCMS2 RUN LOG

## COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/29/06	15	SV2 134 77	0606321-01	PAH2DY		VSC
	16	SV2 48	0606341-03			VSC
	17	SV2 79	0606346-02			VSC
	18	SV2 80	0606346-07	PAH2DY		VSC
	1	SV2 81	BPF0250-TM1	OFTPP	6:12pm	VSC
	2	SV2 82	BPF0250-CM1	SV2KG		VSC
	3	SV2 83	BF62605-BLH1			
	4	SV2 84	BF62605-B51			
	5	SV2 85	BF62605-B501			
	6	SV2 86	0606373-01			
	7	SV2 87	-02			
	8	SV2 88	-03			
	9	SV2 89	-04			
	10	SV2 90	-05			
	11	SV2 91	-06			
	12	SV2 92	-07			
	13	SV2 93	-08			
	14	SV2 94	-09			
	15	SV2 95	0606373-10			
	16	SV2 96	BF62605-M51			
	17	SV2 97	BF62605-M501			
	18	SV2 98	0606373-12			
	19	SV2 134 99	-13			
	20	SV2 135 00	-14			
	21	SV2 01	-13	SV2KG		
6/29/06	22	SV2 02	0606373-16	SV2KG	4:45 AM	VSC
6/30/06	1	SV2 03	BPF0254-TM1	OFTPP	6/29/06	VSC
6/30/06	2	SV2 04	BPF0256-CM1	SV2KG		VSC
6/30/06	3	SV2 05	BPF0254-CM1	SV2KG		VSC

Data File : Q:\SVOA\MS2\_ME\ME0606\ME062906\SV213482.D Vial: 2  
 Acq On : 29 Jun 2006 6:32 pm Operator: VSC  
 Sample : BPF0250-CCV1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)  
 Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)  
 Last Update : Mon Jul 03 10:33:16 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	81	-0.17
2	N-Nitrosodimethylamine	0.358	0.175	51.1#	39#	0.00
3	Pyridine	0.626	0.276	55.9#	36#	0.00
4 S	2-Fluorophenol (SURR)	1.301	1.488	-14.4	93	0.00
5	bis(2-Chloroethyl)ether	1.117	1.140	-2.1	83	0.00
6 S	Phenol-d5 (SURR)	1.669	1.842	-10.4	87	0.00
7	2-Chlorophenol	1.386	1.464	-5.6	84	0.00
8 C	Phenol	2.082	2.326	-11.7#	92	0.00
9	Aniline	1.867	1.961	-5.0	82	0.00
10 S	2-Chlorophenol-d4 (SURR)	1.395	1.456	-4.4	84	0.00
11	1,3-Dichlorobenzene	1.344	1.420	-5.7	84	0.00
12 C	1,4-Dichlorobenzene	1.713	1.727	-0.8#	82	0.00
13 S	1,2 Dichlorobenzene-d4 (SURR)	0.876	0.917	-4.7	83	0.00
14	1,2-Dichlorobenzene	1.411	1.466	-3.9	83	0.00
15	Benzyl Alcohol	1.208	1.222	-1.2	81	0.00
16	bis(2-chloroisopropyl)ether	2.593	2.812	-8.4	86	0.00
17	2-Methylphenol	1.238	1.354	-9.4	87	0.00
18	Acetophenone	1.658	1.758	-6.0	82	0.00
19 P	n-Nitroso-di-n-propylamine	1.112	1.174	-5.6	82	0.00
20	Hexachloroethane	0.629	0.660	-4.9	85	0.00
21	3+4-Methylphenol	1.260	1.444	-14.6	89	0.00
22	Naphthalene-d8	1.000	1.000	0.0	76	0.00
23 S	Nitrobenzene-d5 (SURR)	0.385	0.437	-13.5	86	0.00
24	Nitrobenzene	0.397	0.427	-7.6	82	0.00
25	Isophorone	0.720	0.860	-19.4	89	0.00
26 C	2-Nitrophenol	0.206	0.218	-5.8#	78	0.00
27	Benzoic Acid	0.272	0.263	3.3	73	0.00
28	2,4-Dimethylphenol	0.322	0.379	-17.7	88	0.00
29	bis(2-Chloroethoxy)methane	0.453	0.541	-19.4	89	0.00
30 C	2,4-Dichlorophenol	0.272	0.306	-12.5#	84	0.00
31	1,2,4-Trichlorobenzene	0.287	0.319	-11.1	83	0.00
32	Naphthalene	0.986	1.030	-4.5	77	0.00
33	4-Chloroaniline	0.432	0.475	-10.0	79	0.00
34 C	Hexachlorobutadiene	0.136	0.147	-8.1#	80	0.00
35 C	4-Chloro-3-methylphenol	0.293	0.344	-17.4#	90	0.00
36	2-Methylnaphthalene	0.626	0.665	-6.2	79	0.00
37	1-Methylnaphthalene	0.621	0.653	-5.2	78	0.00
38	Acenaphthene-d10	1.000	1.000	0.0	82	0.00
39 P	Hexachlorocyclopentadiene	0.278	0.239	14.0	70	0.00
40 C	2,4,6-Trichlorophenol	0.360	0.355	1.4#	78	0.00
41	2,4,5-Trichlorophenol	0.383	0.448	-17.0	94	0.00
42 S	2-Fluorobiphenyl (SURR)	1.229	1.337	-8.8	84	0.00
43	Biphenyl	1.358	1.436	-5.7	80	0.00
44	2-Chloronaphthalene	1.274	1.292	-1.4	79	0.00
45	Dimethylphthalate	1.300	1.345	-3.5	82	0.00
46	Acenaphthylene	1.845	1.962	-6.3	83	0.00
47	2,6-Dinitrotoluene	0.333	0.335	-0.6	79	0.00
48	2-Nitroaniline	0.474	0.442	6.8	83	0.00

(#) = Out of Range

Data File : Q:\SVOA\MS2\_ME\ME0606\ME062906\SV213482.D Vial: 2  
 Acq On : 29 Jun 2006 6:32 pm Operator: VSC  
 Sample : BPF0250-CCV1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)  
 Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)  
 Last Update : Mon Jul 03 10:33:16 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 C	Acenaphthene	1.199	1.221	-1.8#	81	0.00
50 P	2,4-Dinitrophenol	0.176	0.151	14.2	68	0.00
51	Dibenzofuran	1.601	1.644	-2.7	84	0.00
52 P	4-Nitrophenol	0.152	0.143	5.9	81	0.00
53	3-Nitroaniline	0.398	0.370	7.0	77	0.00
54	2,4-Dinitrotoluene	0.431	0.404	6.3	78	0.00
55	Fluorene	1.230	1.288	-4.7	84	0.00
56	2,3,4,6-Tetrachlorophenol	0.283	0.287	-1.4	82	0.00
57	Diethylphthalate	1.337	1.333	0.3	81	0.00
58	4-Chloro-phenyl-phenyl ethe	0.532	0.549	-3.2	82	0.00
59	Phenanthrene-d10	1.000	1.000	0.0	79	0.00
60	4-Nitroaniline	0.278	0.283	-1.8	79	0.00
61	4,6-Dinitro-2-methylphenol	0.161	0.148	8.1	67	0.00
62 C	n-Nitrosodiphenylamine	0.764	0.843	-10.3#	81	0.00
63	Azobenzene	1.177	1.374	-16.7	91	0.00
64 S	2,4,6-Tribromophenol (SURR)	0.111	0.117	-5.4	79	0.00
65	4-Bromophenyl-phenylether	0.215	0.223	-3.7	78	0.00
66	Hexachlorobenzene	0.233	0.260	-11.6	84	0.00
67 C	Pentachlorophenol	0.127	0.115	9.4#	68	0.00
68	Phenanthrene	1.189	1.206	-1.4	78	0.00
69	Anthracene	1.183	1.277	-7.9	82	0.00
70	Carbazole	1.113	1.137	-2.2	78	0.00
71	Di-n-butylphthalate	1.568	1.650	-5.2	79	0.00
72 C	Fluoranthene	1.034	1.028	0.6#	78	0.00
73	Benzidine	0.346	0.369	-6.6	93	0.00
74	Chrysene-d12	1.000	1.000	0.0	82	0.00
75	Pyrene	1.768	1.737	1.8	77	0.00
76 S	Terphenyl-d14 (SURR)	1.051	1.050	0.1	77	0.00
77	Butylbenzylphthalate	0.966	0.962	0.4	76	0.00
78	3,3'-Dichlorobenzidine	0.416	0.479	-15.1	88	0.00
79	Benzo(a)anthracene	1.287	1.246	3.2	78	0.00
80	Chrysene	1.266	1.275	-0.7	83	0.00
81	bis(2-Ethylhexyl)phthalate	1.239	1.268	-2.3	77	0.00
82	Perylene-d12	1.000	1.000	0.0	92	0.00
83 C	Di-n-octylphthalate	1.978	2.258	-14.2#	95	0.00
84	Benzo(b)fluoranthene	1.140	0.897	21.3	63	0.00
85	Benzo(k)fluoranthene	1.457	1.693	-16.2	109	0.00
86 C	Benzo(a)pyrene	1.126	1.213	-7.7#	99	0.00
87	Indeno(1,2,3-cd)pyrene	1.002	1.207	-20.5	102	0.00
88	Dibenzo(a,h)anthracene	0.816	1.002	-22.8	103	0.00
89	Benzo(g,h,i)perylene	0.864	1.016	-17.6	103	0.00

Data File : Q:\SVOA\MS2\_ME\ME0606\ME062906\SV213482.D Vial: 2  
 Acq On : 29 Jun 2006 6:32 pm Operator: VSC  
 Sample : BPF0250-CCV1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 3 10:33 2006

Quant Results File: SV2KG.RES

Quant Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)  
 Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)  
 Last Update : Tue Jun 27 14:30:40 2006  
 Response via : Initial Calibration  
 DataAcq Meth : SV2KG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.48	152	204851m	40.00	ng/uL	-0.19
22) Naphthalene-d8	4.76	136	744723	40.00	ng/uL	-0.03
38) Acenaphthene-d10	7.27	164	391803	40.00	ng/uL	-0.02
59) Phenanthrene-d10	9.90	188	490336	40.00	ng/uL	-0.03
74) Chrysene-d12	15.14	240	297727	40.00	ng/uL	-0.02
82) Perylene-d12	17.79	264	281226	40.00	ng/uL	-0.02

## System Monitoring Compounds

4) 2-Fluorophenol (SURR)	2.31	112	381035	57.20	ng/uL	-0.02
Spiked Amount 150.000			Recovery =	38.13%		
6) Phenol-d5 (SURR)	3.19	99	471710	55.20	ng/uL	-0.03
Spiked Amount 150.000			Recovery =	36.80%		
10) 2-Chlorophenol-d4 (SURR)	3.30	132	372762	52.17	ng/uL	-0.03
Spiked Amount 150.000			Recovery =	34.78%		
13) 1,2 Dichlorobenzene-d4 (SUR)	3.65	152	234751	52.31	ng/uL	-0.02
Spiked Amount 100.000			Recovery =	52.31%		
23) Nitrobenzene-d5 (SURR)	4.02	82	406948	56.85	ng/uL	-0.03
Spiked Amount 100.000			Recovery =	56.85%		
42) 2-Fluorobiphenyl (SURR)	6.20	172	654654	54.38	ng/uL	-0.03
Spiked Amount 100.000			Recovery =	54.38%		
64) 2,4,6-Tribromophenol (SURR)	8.66	330	71627	52.50	ng/uL	-0.03
Spiked Amount 150.000			Recovery =	35.00%		
76) Terphenyl-d14 (SURR)	13.10	244	390608	49.92	ng/uL	-0.02
Spiked Amount 100.000			Recovery =	49.92%		

## Target Compounds

						Qvalue
2) N-Nitrosodimethylamine	0.97	42	44759m	24.43	ng/uL	
3) Pyridine	0.98	79	70717m	22.07	ng/uL	
5) bis(2-Chloroethyl) ether	3.26	63	291975	51.06	ng/uL	94
7) 2-Chlorophenol	3.31	128	374969	52.83	ng/uL	91
8) Phenol	3.20	94	595597	55.85	ng/uL	93
9) Aniline	3.21	93	502095	52.53	ng/uL	68
11) 1,3-Dichlorobenzene	3.43	146	363502	52.82	ng/uL	98
12) 1,4-Dichlorobenzene	3.49	146	442153	50.40	ng/uL	99
14) 1,2-Dichlorobenzene	3.66	146	375445	51.96	ng/uL	99
15) Benzyl Alcohol	3.62	79	312850	50.58	ng/uL	99
16) bis(2-chloroisopropyl) ethe	3.76	45	720081	54.23	ng/uL	98
17) 2-Methylphenol	3.74	108	346804	54.70	ng/uL	96
18) Acetophenone	3.87	105	450117	53.00	ng/uL	90
19) n-Nitroso-di-n-propylamine	3.89	70	300627	52.77	ng/uL	93
20) Hexachloroethane	3.96	117	169046	52.46	ng/uL	91
21) 3+4-Methylphenol	3.88	108	369877	57.34	ng/uL	96
24) Nitrobenzene	4.04	77	397950	53.91	ng/uL	97
25) Isophorone	4.27	82	800856	59.71	ng/uL	95
26) 2-Nitrophenol	4.36	139	202737	52.82	ng/uL	95
27) Benzoic Acid	4.55	105	245127	45.44	ng/uL	95
28) 2,4-Dimethylphenol	4.41	107	353220	58.86	ng/uL	97
29) bis(2-Chloroethoxy) methane	4.50	93	503597	59.68	ng/uL	97
30) 2,4-Dichlorophenol	4.62	162	284526	56.11	ng/uL	97
31) 1,2,4-Trichlorobenzene	4.72	180	297245	55.56	ng/uL	98
32) Naphthalene	4.79	128	959218	52.23	ng/uL	99

(#) = qualifier out of range (m) = manual integration  
 SV213482.D SV2KG.M Mon Jul 03 10:34:58 2006



Data File : Q:\SVOA\MS2\_ME\ME0606\ME062906\SV213482.D Vial: 2  
 Acq On : 29 Jun 2006 6:32 pm Operator: VSC  
 Sample : BPF0250-CCV1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 3 10:33 2006

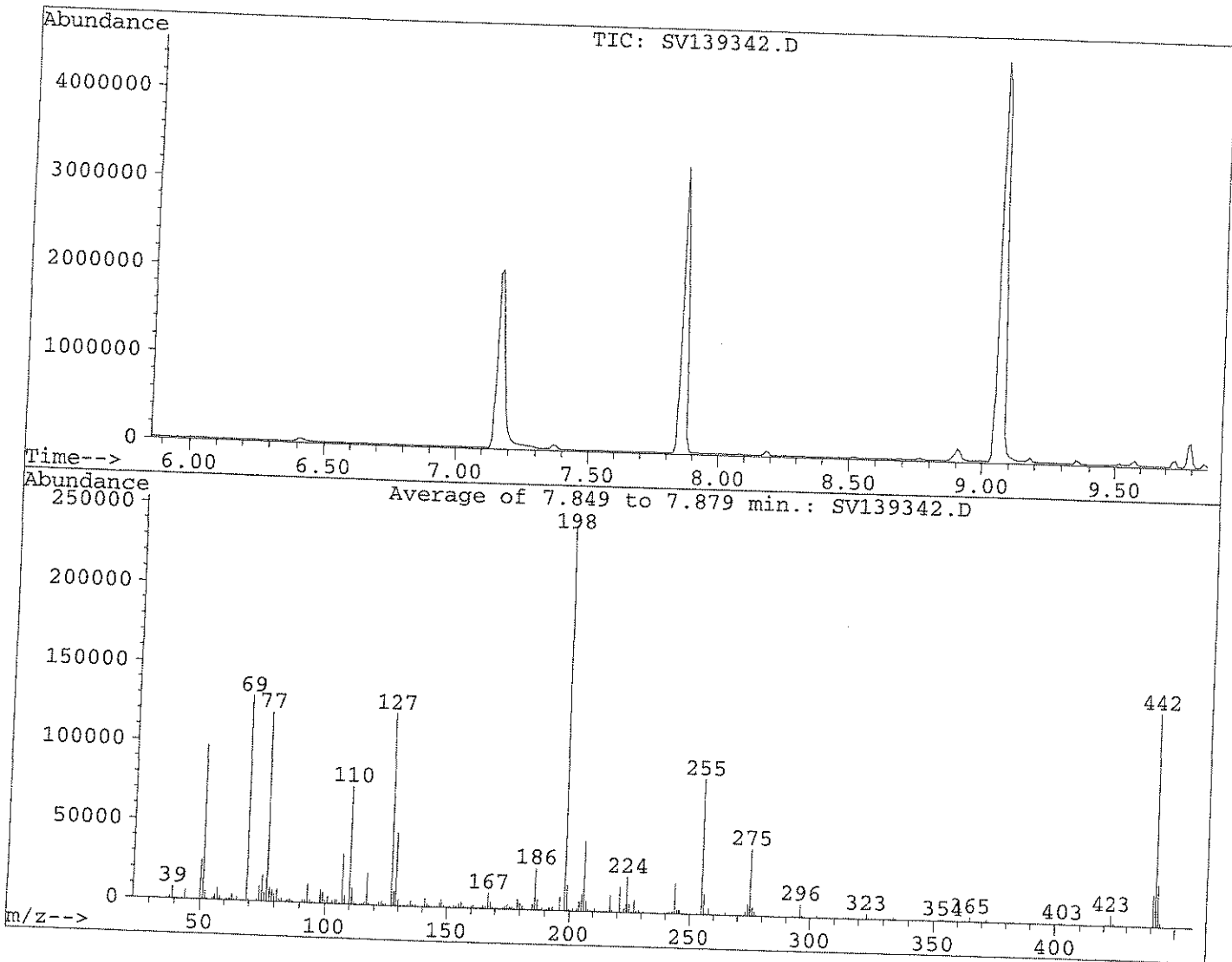
Quant Results File: SV2KG.RES

Quant Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)  
 Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)  
 Last Update : Tue Jun 27 14:30:40 2006  
 Response via : Initial Calibration  
 DataAcq Meth : SV2KG

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
33) 4-Chloroaniline	4.88	127	442562	55.07	ng/uL	99
34) Hexachlorobutadiene	5.00	225	136937	53.99	ng/uL	99
35) 4-Chloro-3-methylphenol	5.49	107	319783	58.56	ng/uL	94
36) 2-Methylnaphthalene	5.65	142	619142	53.14	ng/uL	97
37) 1-Methylnaphthalene	5.81	142	607646	52.55	ng/uL	97
39) Hexachlorocyclopentadiene	5.97	237	117132	43.07	ng/uL	99
40) 2,4,6-Trichlorophenol	6.09	196	173940	49.37	ng/uL	99
41) 2,4,5-Trichlorophenol	6.16	196	219229	58.50	ng/uL	98
43) Biphenyl	6.34	154	703320	52.86	ng/uL	96
44) 2-Chloronaphthalene	6.35	162	632537	50.70	ng/uL	99
45) Dimethylphthalate	6.91	163	658880	51.75	ng/uL	100
46) Acenaphthylene	7.01	152	961047	53.19	ng/uL	96
47) 2,6-Dinitrotoluene	7.01	165	164138	50.36	ng/uL	99
48) 2-Nitroaniline	6.56	65	216424	46.57	ng/uL	98
49) Acenaphthene	7.32	153	598070	50.94	ng/uL	98
50) 2,4-Dinitrophenol	7.40	184	73802	40.19	ng/uL	96
51) Dibenzofuran	7.58	168	805059	51.33	ng/uL	95
52) 4-Nitrophenol	7.56	109	69893m	46.81	ng/uL	
53) 3-Nitroaniline	7.24	138	181267	46.46	ng/uL	96
54) 2,4-Dinitrotoluene	7.67	165	197642	46.86	ng/uL	99
55) Fluorene	8.19	166	630688	52.34	ng/uL	98
56) 2,3,4,6-Tetrachlorophenol	7.89	232	140738	50.71	ng/uL	98
57) Diethylphthalate	8.14	149	652802	49.85	ng/uL	98
58) 4-Chloro-phenyl-phenyl eth	8.21	204	268786	51.62	ng/uL	98
60) 4-Nitroaniline	8.31	138	173414	50.96	ng/uL	92
61) 4,6-Dinitro-2-methylphenol	8.39	198	90779	42.94	ng/uL	87
62) n-Nitrosodiphenylamine	8.44	169	516425	55.17	ng/uL	97
63) Azobenzene	8.48	77	841847	58.34	ng/uL	100
65) 4-Bromophenyl-phenylether	9.09	248	136952	51.90	ng/uL	95
66) Hexachlorobenzene	9.35	284	159332	55.75	ng/uL	90
67) Pentachlorophenol	9.70	266	70499	45.34	ng/uL	98
68) Phenanthrene	9.95	178	739207	50.74	ng/uL	100
69) Anthracene	10.04	178	782526	53.97	ng/uL	99
70) Carbazole	10.37	167	696632	51.04	ng/uL	95
71) Di-n-butylphthalate	11.25	149	1011544	52.62	ng/uL	99
72) Fluoranthene	12.27	202	629858	49.71	ng/uL	99
73) Benzidine	12.59	184	225999	50.67	ng/uL	99
75) Pyrene	12.69	202	646345	49.11	ng/uL	93
77) Butylbenzylphthalate	14.21	149	358052	49.82	ng/uL	99
78) 3,3'-Dichlorobenzidine	15.14	252	178294	52.96	ng/uL	98
79) Benzo(a)anthracene	15.11	228	463641	48.40	ng/uL	99
80) Chrysene	15.18	228	474552	50.38	ng/uL	100
81) bis(2-Ethylhexyl)phthalate	15.44	149	471881	51.16	ng/uL	97
83) Di-n-octylphthalate	16.61	149	793744	50.71	ng/uL	100
84) Benzo(b)fluoranthene	17.14	252	315401	35.83	ng/uL	97
85) Benzo(k)fluoranthene	17.18	252	595053	58.08	ng/uL	99
86) Benzo(a)pyrene	17.68	252	426268	53.85	ng/uL	95
87) Indeno(1,2,3-cd)pyrene	19.46	276	424386	60.27	ng/uL	100
88) Dibenzo(a,h)anthracene	19.49	278	352221	61.38	ng/uL	94
89) Benzo(g,h,i)perylene	19.85	276	357188	58.79	ng/uL	99

(#) = qualifier out of range (m) = manual integration  
 SV213482.D SV2KG.M Mon Jul 03 10:34:59 2006

Data File : Q:\SVOA\MS1\_MD\MD0606\MD062906\SV139342.D Vial: 1  
 Acq On : 29 Jun 106 8:59 am Operator: VSC  
 Sample : BPF0206-TUN1 Inst : SVOA-MS1  
 Misc : Multiplr: 1.00  
 Method : C:\HPCHEM\1\METHODS\DFTPP.M  
 Title : daily instrument eval mix



Peak Apex is scan: 221

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	40.4	97321	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	53.6	129355	PASS
70	69	0	2	0.5	676	PASS
127	198	40	60	50.2	121074	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	241112	PASS
199	198	5	9	6.7	16112	PASS
275	198	10	30	17.3	41821	PASS
365	198	1	100	1.2	2820	PASS
441	443	0	100	75.9	19756	PASS
442	198	40	110	55.9	134702	PASS
443	442	17	23	19.3	26026	PASS

## ANALYSIS SEQUENCE

BPF0206

Instrument: SVOA-MS1

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0206-TUN1	QC		1		6F13071		
BPF0206-CCV1	QC		2		6F27064	6F26097	
BPF0206-CAL1	QC		3		6E31076	6E26058	
BPF0206-CAL2	QC		4		6E31077	6E26058	
BPF0206-CAL3	QC		5		6E31078	6E26058	
BPF0206-CAL4	QC		6		6E31079	6E26058	
BPF0206-CAL5	QC		7		6E31080	6E26058	
BPF0206-CAL6	QC		8		6E31081	6E26058	
BPF0206-CAL7	QC		9		6E31082	6E26058	
BPF0206-CAL8	QC		10		6E31083	6E26058	
BPF0206-SCV1	QC		11		6E31084	6E26058	

Samples Loaded By

Date

595  
Data Processed By

Date

# ESS LABORATORY GCMS1 RUN LOG

## COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/27/06	18	SV139352	0606334-02	CVING	RR	VSC
	19	SV1 53	0606361-01			
	20	SV1 54	BF62702-Blk1			
	21	SV1 55	BF62702-BS1			
	22	SV1 56	BF62702-BS01			
	23	SV1 57	0606375-02			
	24	SV1 58	BF62702-MS1			
	25	SV1 59	BF62702-MS01			
	26	SV1 60	0606405-01			
	27	SV1 61	02			
	28	SV1 62	02ms			
	29	SV1 63	02MSD			
	30	SV1 64	0606405 03			
6/27/06	31	SV1 65	<del>0606405</del> 04 0606405-04	SVING		VSC
6/28/06	1	SV1 37336	BPF0206-CCV1	SVING		SI
	2	SV1 37				
	2	SV1 38				
6/28/06	2	SV1 40	BPF0206-CCV1	SVING		VSC
6/29/06	1	SV1 42	BPF0206-7ml <sup>201</sup>	OFFTOP	6E13071 BPF0204-7ml <sup>AO</sup>	VSC
	2	SV1 43	-CCV1	SVING	6E27064	
	2	SV1 44	-cal4		6E31076	
	3	SV1 45	-cal1		77	
	4	SV1 46	-cal2		78	
	5	SV1 47	-cal3		79	
	6	SV1 48	-cal5		80	
	7	SV1 49	-cal6		81	
	8	SV1 50	-cal7		82	
	9	SV1 51	-cal8		83	
	10	SV1 52	BPF0206 - SV1		6E31084	
6/29/06	11	SV1 53	0606375-01	SVING	Surv. Failed	VSC

# ESS LABORATORY GCMS1 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/29/06	12	SV1393	54 0606334-03 ✓	SVING	6F16045	VSE
	13	SV1	55 0606359-03 ✓	↓	↓	
	14	SV1	56 0606348-01 ✓	↓	↓	
	15	SV1	57 0606334-01 ✓	SVING	6F16045	
	17	SV1	58 <del>0606334-02</del> ✓	DETPP	6F26111	
	27	SV1	59 <del>0606334-01</del> ✓	SVING	6F27064	
	3	SV1	60 BF62702-BLW1 ✓		6F26097	
	4	SV1	61 BF62702-B57 ✓			
	5	SV1	62 BF62702-B5D1 ✓			
	6	SV1	63 0606375-02 ✓			
	7	SV1	64 BF62702-MS1 ✓			
	8	SV1	65 BF62702-MSD1 ✓			
	9	SV1	66 BF62825-BM1 ✓			
	10	SV1	67 BF62825-B51 ✓			
	11	SV1	68 BF62825-B5D1 ✓			
	12	SV1	69 <del>0606334-02</del> ✓			
	13	SV1	70 0606464-02 ✓			
	14	SV1	71 0606464-01 ✓			
	15	SV1	72 0606334-02 ✓		5x PR Bad Int.	
	16	SV1	73 0606361-01 ✓			
	17	SV1	74 0606405-01 ✓			
	18	SV1	75 -03 <del>02</del> ✓			
	19	SV1	76 -04 ✓			
	20	SV1	77 -02 ✓			
	21	SV1	78 -02ms ✓			
6/29/06	22	SV1	79 0606405-02ms ✓	SVING	6F26097	VSE
6/30/06	1	SV1	80 BPF0259-TM1 ✓	DETPP	6F26111	VSE
	2	SV1	81 BPF0259-CCV1 ✓	SVING	6F27064	
	3	SV1	82 BNA MSQC ✓	SVING	6F26097	
6/30/06	4	SV1	83 0606334-02 ✓	SVING	5x 6F26097	VSE

Response Factor Report SVOA-MS1

Method : C:\HPCHEM\1\METHODS\SV1NG.M  
 Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)  
 Last Update : Thu Jun 29 15:16:49 2006  
 Response via : Initial Calibration

Calibration Files  
 5 =SV139345.D 80 =SV139348.D 50 =SV139344.D  
 200 =SV139351.D 120 =SV139349.D 160 =SV139350.D

Compound	5	80	50	200	120	160	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	-----ISTD-----							
2) N-Nitrosodimethylam	0.088	0.113	0.111	0.132	0.123	0.119	0.111	13.45
3) Pyridine	0.171	0.201	0.185	0.214	0.202	0.209	0.190	10.58
4) S 2-Fluorophenol (SUR	1.447	1.514	1.488	1.523	1.527	1.532	1.483	3.58
5) bis(2-Chloroethyl)e	1.746	1.668	1.677	1.416	1.541	1.517	1.633	7.83
6) S Phenol-d5 (SURR)	1.971	1.821	1.907	1.690	1.713	1.703	1.833	6.55
7) M 2-Chlorophenol	1.595	1.438	1.500	1.326	1.366	1.357	1.454	6.78
8) MC Phenol	2.479	2.203	2.323	2.012	2.055	2.062	2.245	8.46
9) Aniline	2.510	2.293	2.353	2.074	2.115	2.106	2.318	8.90
10) S 2-Chlorophenol-d4(S	1.577	1.431	1.506	1.271	1.349	1.323	1.441	8.16
11) 1,3-Dichlorobenzene	1.666	1.534	1.560	1.447	1.481	1.484	1.547	4.83
12) MC 1,4-Dichlorobenzene	1.675	1.579	1.585	1.454	1.515	1.475	1.566	4.96
13) S 1,2 Dichlorobenzene	0.945	0.835	0.873	0.698	0.763	0.754	0.838	10.98
14) 1,2-Dichlorobenzene	1.569	1.391	1.433	1.174	1.306	1.264	1.394	9.89
15) Benzyl Alcohol	1.303	1.181	1.214	1.007	1.106	1.081	1.171	8.39
16) bis(2-chloroisoprop	2.254	2.042	2.101	1.829	1.953	1.950	2.050	6.59
17) 2-Methylphenol	1.427	1.305	1.328	1.243	1.279	1.263	1.319	4.59
18) Acetophenone	1.970	1.775	1.801	1.684	1.675	1.709	1.796	6.00
19) MP N-Nitroso-Di-n-Prop	1.129	1.022	1.053	0.878	0.961	0.928	1.016	8.60#
20) Hexachloroethane	0.663	0.613	0.626	0.515	0.569	0.547	0.601	8.56
21) 3+4-Methylphenol	1.474	1.341	1.393	1.268	1.291	1.306	1.369	5.85
22) I Naphthalene-d8	-----ISTD-----							
23) S Nitrobenzene-d5 (SU	0.371	0.363	0.369	0.371	0.363	0.363	0.364	1.81
24) Nitrobenzene	0.385	0.357	0.361	0.360	0.354	0.353	0.364	2.92
25) Isophorone	0.803	0.743	0.743	0.777	0.748	0.749	0.764	2.98
26) C 2-Nitrophenol	0.169	0.211	0.204	0.226	0.219	0.220	0.203	9.95
27) Benzoic Acid	0.142	0.280	0.231	0.314	0.327	0.310	0.244	30.59 L
28) 2,4-Dimethylphenol	0.356	0.336	0.327	0.341	0.330	0.331	0.340	3.28
29) bis(2-Chloroethoxy)	0.523	0.495	0.495	0.506	0.489	0.493	0.505	2.77
30) C 2,4-Dichlorophenol	0.276	0.269	0.273	0.275	0.266	0.265	0.273	2.31
31) M 1,2,4-Trichlorobenz	0.284	0.270	0.271	0.261	0.265	0.263	0.273	3.63
32) Naphthalene	1.096	0.949	0.977	0.871	0.884	0.880	0.968	9.01
33) 4-Chloroaniline	0.477	0.429	0.454	0.369	0.399	0.390	0.434	10.04
34) C Hexachlorobutadiene	0.134	0.118	0.122	0.110	0.113	0.111	0.121	7.97
35) MC 4-Chloro-3-Methylph	0.314	0.313	0.300	0.296	0.302	0.291	0.304	2.74
36) 2-Methylnaphthalene	0.700	0.626	0.646	0.586	0.604	0.586	0.640	7.41
37) 1-Methylnaphthalene	0.697	0.622	0.638	0.591	0.588	0.581	0.635	7.37
38) I Acenaphthene-d10	-----ISTD-----							
39) P Hexachlorocyclopent	0.273	0.275	0.228	0.251	0.258	0.259	0.262	6.47#
40) C 2,4,6-Trichlorophen	0.377	0.373	0.377	0.384	0.367	0.383	0.377	1.52
41) 2,4,5-Trichlorophen	0.400	0.397	0.406	0.373	0.393	0.394	0.397	3.02
42) S 2-Fluorobiphenyl (S	1.398	1.201	1.287	1.113	1.167	1.159	1.245	8.03
43) Biphenyl	1.692	1.368	1.532	1.256	1.206	1.576	1.471	13.26 - 200
14) 2-Chloronaphthalene	1.472	1.206	1.318	1.126	1.174	1.175	1.289	10.65
15) Dimethylphthalate	1.454	1.305	1.349	1.266	1.294	1.310	1.349	4.96
16) Acenaphthylene	2.251	1.897	1.993	1.775	1.826	1.830	1.979	8.88
17) 2,6-Dinitrotoluene	0.271	0.310	0.317	0.303	0.303	0.304	0.304	5.03
18) 2-Nitroaniline	0.391	0.380	0.376	0.391	0.390	0.398	0.386	3.31
19) MC Acenaphthene	1.344	1.160	1.220	1.073	1.111	1.123	1.195	7.89
0) P 2,4-Dinitrophenol	0.159	0.107	0.210	0.188	0.204	0.085	0.159	32.92#L - 10,5
1) Dibenzofuran	1.775	1.586	1.640	1.502	1.539	1.544	1.628	6.24
2) MP 4-Nitrophenol	0.205	0.264	0.253	0.274	0.285	0.292	0.254	12.34#
3) 3-Nitroaniline	0.433	0.465	0.471	0.453	0.461	0.451	0.457	3.18
4) M 2,4-Dinitrotoluene	0.278	0.422	0.390	0.435	0.428	0.440	0.388	14.99 L

! = Out of Range ### Number of calibration levels exceeded format ###  
 SV1NG.M Thu Jun 29 15:19:13 2006 598

Method : C:\HPCHEM\1\METHODS\SV1NG.M  
 Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)  
 Last Update : Thu Jun 29 15:16:49 2006  
 Response via : Initial Calibration

Calibration Files

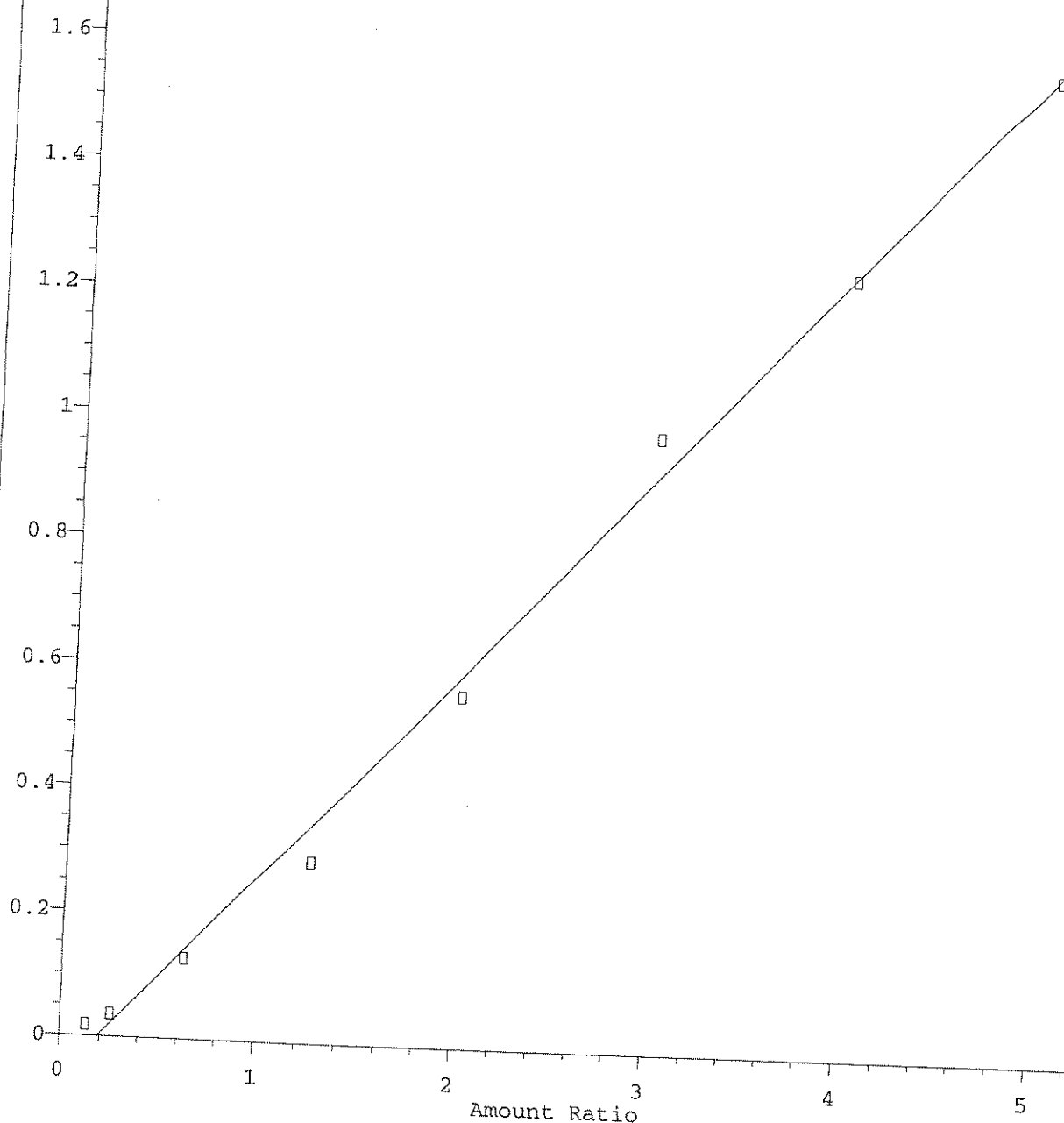
5 =SV139345.D 80 =SV139348.D 50 =SV139344.D  
 200 =SV139351.D 120 =SV139349.D 160 =SV139350.D

Compound	5	80	50	200	120	160	Avg	%RSD
55) Fluorene	1.435	1.202	1.301	1.016	1.118	1.101	1.237	12.14
56) 2,3,4,6-Tetrachloro	0.277	0.280	0.281	0.275	0.270	0.277	0.280	2.96
57) Diethylphthalate	1.577	1.377	1.442	1.314	1.338	1.333	1.418	6.62
58) 4-Chloro-phenyl-phe	0.614	0.518	0.567	0.474	0.466	0.583	0.546	11.03
59) I Phenanthrene-d10	-----ISTD-----							
60) 4-Nitroaniline	0.262	0.319	0.311	0.318	0.320	0.308	0.302	7.27
61) 4,6-Dinitro-2-Methy	0.041	0.163	0.128	0.178	0.176	0.177	0.131	40.35
62) C N-nitrosodiphenylam	0.869	0.723	0.770	0.656	0.679	0.649	0.742	10.61
63) Azobenzene	1.269	1.142	1.105	1.085	1.122	1.096	1.141	5.09
64) S 2,4,6-Tribromopheno	0.088	0.106	0.104	0.108	0.106	0.105	0.103	6.40
65) 4-Bromophenyl-pheny	0.215	0.197	0.199	0.186	0.187	0.183	0.198	5.83
66) Hexachlorobenzene	0.240	0.223	0.220	0.217	0.214	0.213	0.224	4.51
67) MC Pentachlorophenol	0.096	0.136	0.126	0.146	0.135	0.139	0.128	12.33
68) Phenanthrene	1.328	1.120	1.191	1.065	1.062	1.055	1.165	9.00
69) Anthracene	1.362	1.146	1.211	1.024	1.085	1.038	1.179	10.70
70) Carbazole	1.363	1.197	1.229	1.147	1.134	1.119	1.220	7.15
71) Di-n-butylphthalate	1.946	1.720	1.760	1.650	1.691	1.637	1.762	6.28
72) C Fluoranthene	1.250	1.149	1.154	1.094	1.124	1.076	1.160	5.38
73) Benzidine	0.558	0.616	0.554	0.551	0.494	0.526	0.582	13.64
74) I Chrysene-d12	-----ISTD-----							
75) M Pyrene	1.776	1.698	1.704	1.701	1.711	1.684	1.718	1.99
76) S Terphenyl-d14 (SURR)	1.066	1.005	1.024	1.008	0.996	1.004	1.023	2.48
77) Butylbenzylphthalat	1.137	1.097	1.114	1.080	1.087	1.086	1.103	2.35
78) 3,3'-Dichlorobenzid	0.536	0.522	0.536	0.504	0.520	0.496	0.520	2.77
79) Benzo(a)anthracene	1.540	1.487	1.481	1.583	1.522	1.514	1.514	2.30
80) Chrysene	1.401	1.347	1.344	1.310	1.316	1.333	1.351	2.50
81) bis(2-Ethylhexyl)ph	1.524	1.455	1.493	1.442	1.454	1.437	1.480	2.84
82) I Perylene-d12	-----ISTD-----							
83) C Di-n-octylphthalate	2.585	2.267	2.439	2.217	2.114	2.109	2.352	8.47
84) Benzo(b)fluoranthen	1.500	1.588	1.315	1.587	1.553	1.504	1.491	6.15
85) Benzo(k)fluoranthen	1.281	0.755	0.972	0.582	1.160	1.209	0.993	27.88
86) C Benzo(a)pyrene	1.281	1.159	1.203	1.085	1.116	1.090	1.179	6.61
87) Indeno(1,2,3-Cd)Pyr	1.290	1.293	1.300	1.043	0.936	1.324	1.213	12.88
88) Dibenzo(a,h)Anthrac	1.098	1.056	1.109	0.851	0.782	1.133	1.021	13.99
89) Benzo(g,h,i)perylen	1.119	1.125	1.125	0.816	1.131	1.143	1.076	11.89

#) = Out of Range ### Number of calibration levels exceeded format ###  
 SV1NG.M Thu Jun 29 15:19:20 2006 599

Response Ratio

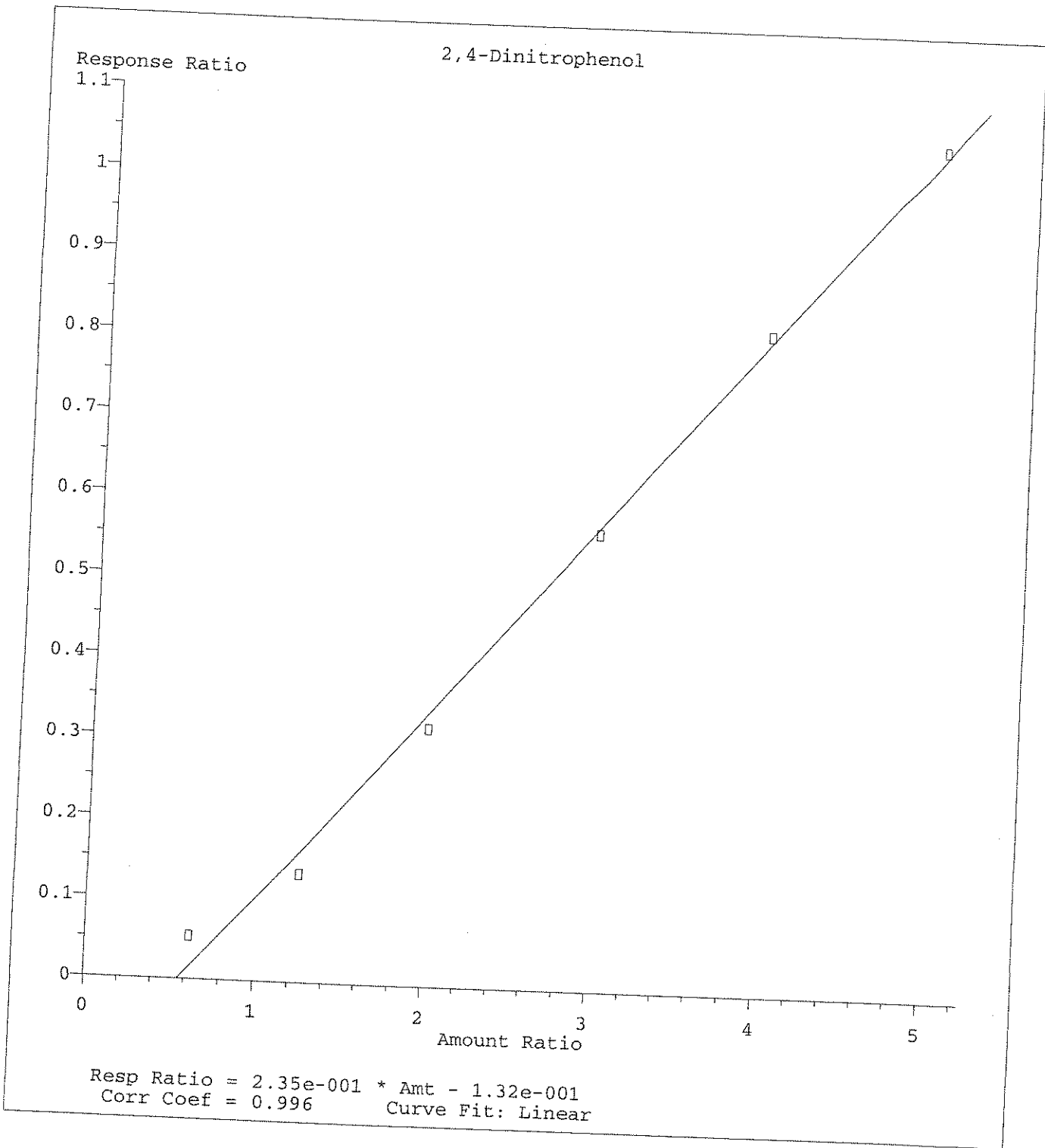
Benzoic Acid



Resp Ratio =  $3.27e-001 * Amt - 6.14e-002$   
Corr Coef = 0.996  
Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\SV1NG.M  
Calibration Table Last Updated: Thu Jun 29 15:16:49 2006

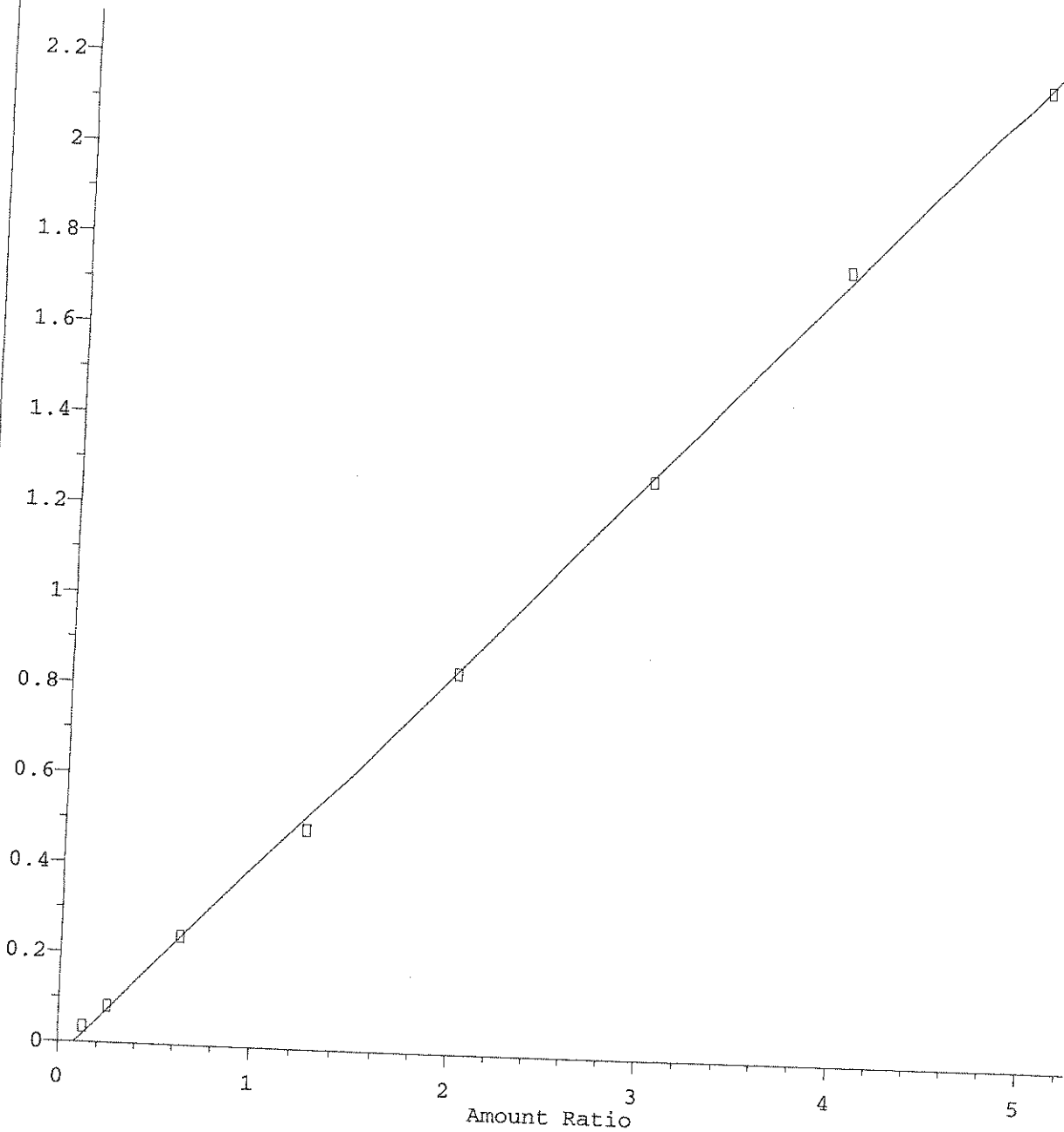




Method Name: C:\HPCHEM\1\METHODS\SV1NG.M  
Calibration Table Last Updated: Thu Jun 29 15:16:49 2006

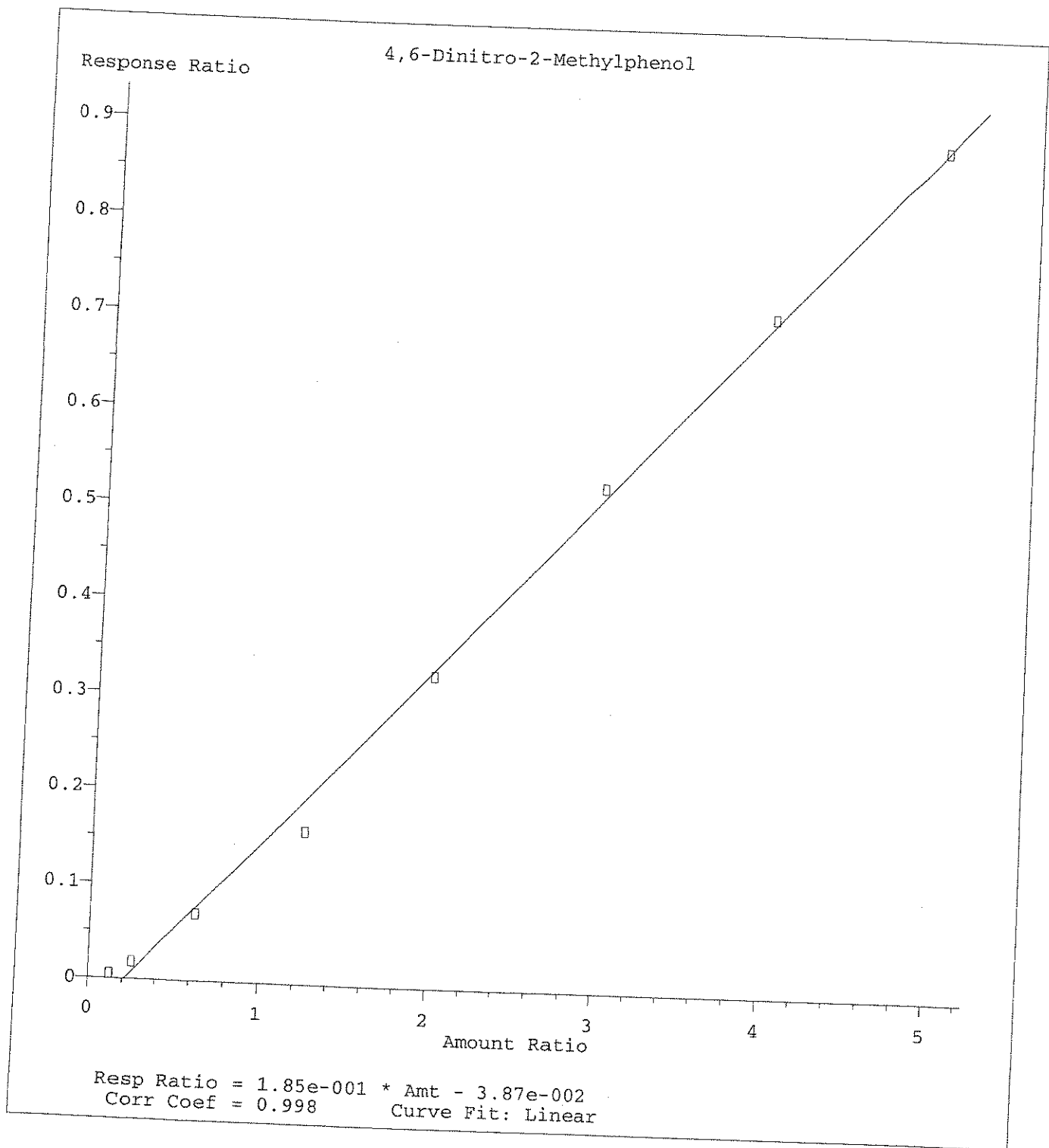
Response Ratio

2,4-Dinitrotoluene

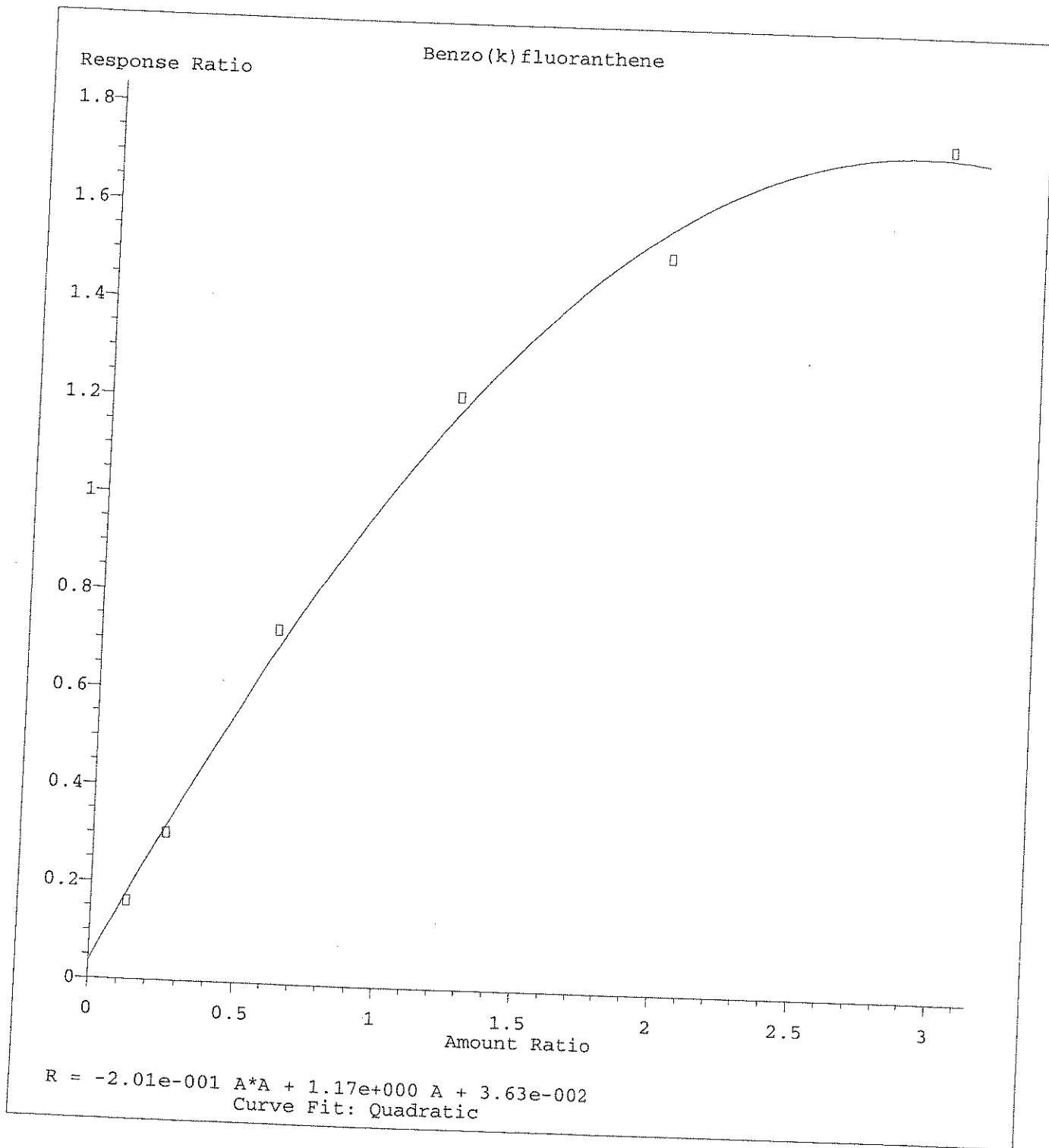


Resp Ratio = 4.44e-001 \* Amt - 3.74e-002  
Corr Coef = 1.000      Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\SV1NG.M  
Calibration Table Last Updated: Thu Jun 29 15:16:49 2006



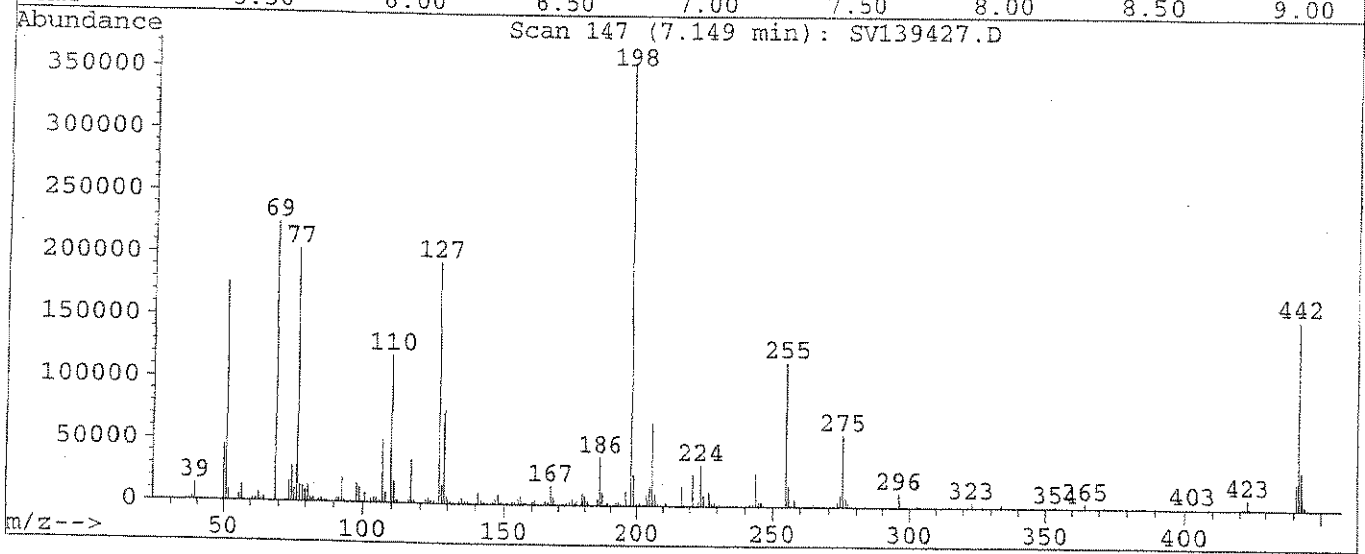
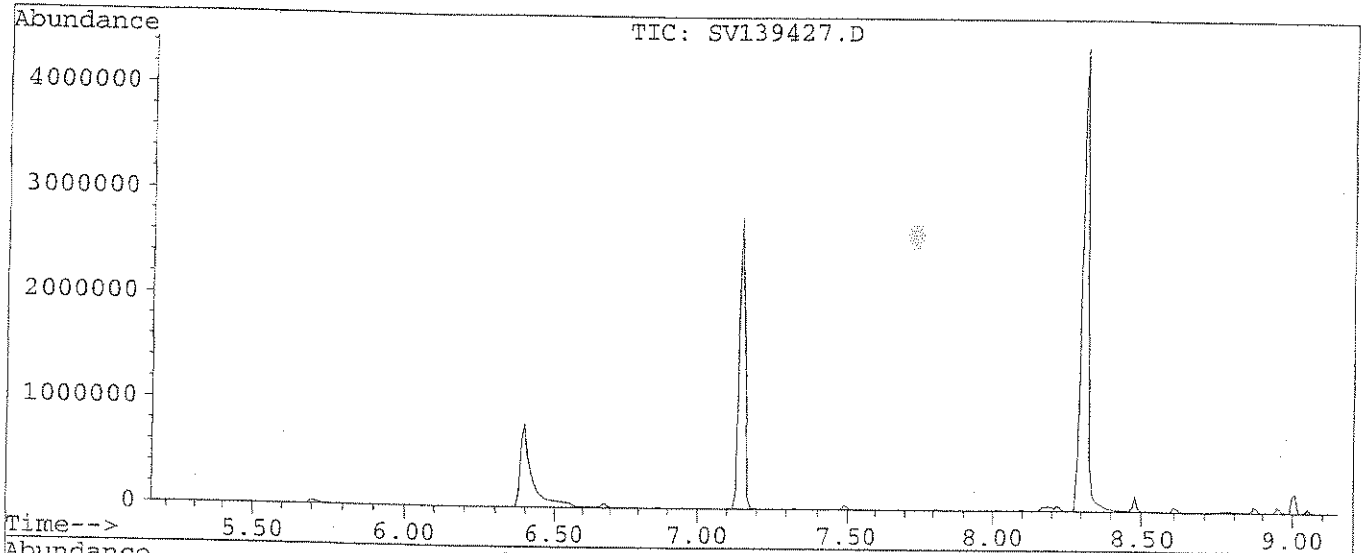
Method Name: C:\HPCHEM\1\METHODS\SV1NG.M  
Calibration Table Last Updated: Thu Jun 29 15:16:49 2006



Method Name: C:\HPCHEM\1\METHODS\SV1NG.M  
Calibration Table Last Updated: Thu Jun 29 15:16:49 2006

Data File : Q:\SVOA\MS1\_MD\MD0706\MD070206\SV139427.D Vial: 1  
 Acq On : 2 Jul 106 2:41 pm Operator: VSC  
 Sample : BPG0003-TUN1 Inst : SVOA-MS1  
 Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NG.M  
 Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)



Peak Apex is scan: 147

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	49.7	176192	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	63.4	224896	PASS
70	69	0	2	0.0	0	PASS
127	198	40	60	54.8	194304	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	354624	PASS
199	198	5	9	7.0	24904	PASS
275	198	10	30	16.3	57928	PASS
365	198	1	100	1.1	3959	PASS
441	443	0	100	71.7	21664	PASS
442	198	40	100	43.0	152640	PASS
443	442	17	23	19.8	30224	PASS

## ANALYSIS SEQUENCE

BPG0003

Instrument: SVOA-MS1

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0003-TUN1	QC		1		6F13071		
BPG0003-CCV1	QC		2		6F16053	6F16045	
BG60520-BLK1	QC		3			6F16045	
BG60520-BS1	QC		4			6F16045	
0606374-01	SVOC: 8270/3541 ppb PAH	B	5			6F16045	MACTEC Engineering & Consulting, Inc.
0606374-02	SVOC: 8270/3541 ppb PAH	B	6			6F16045	MACTEC Engineering & Consulting, Inc.
0606374-03	SVOC: 8270/3541 ppb PAH	B	7			6F16045	MACTEC Engineering & Consulting, Inc.
0606374-04	SVOC: 8270/3541 ppb PAH	B	8			6F16045	MACTEC Engineering & Consulting, Inc.
0606374-05	SVOC: 8270/3541 ppb PAH	B	9			6F16045	MACTEC Engineering & Consulting, Inc.
0606374-07	SVOC: 8270/3541 ppb PAH	B	10			6F16045	MACTEC Engineering & Consulting, Inc.
0606374-06	SVOC: 8270/3541 ppb PAH	B	11			6F16045	MACTEC Engineering & Consulting, Inc.
0606373-17	SVOC: 8270/3541 ppb PAH	B	12			6F16045	MACTEC Engineering & Consulting, Inc.
0606373-18	SVOC: 8270/3541 ppb PAH	B	13			6F16045	MACTEC Engineering & Consulting, Inc.
0606373-19	SVOC: 8270/3541 ppb PAH	B	14			6F16045	MACTEC Engineering & Consulting, Inc.
0606373-20	SVOC: 8270/3541 ppb PAH	B	15			6F16045	MACTEC Engineering & Consulting, Inc.
0606373-21	SVOC: 8270/3541 ppb PAH	A	16			6F16045	MACTEC Engineering & Consulting, Inc.
0606503-05	SVOC: 8270 ppb PAH	A	17			6F16045	Vanasse Hangen Brustlin, Inc.
0606503-07	SVOC: 8270 ppb PAH	A	18			6F16045	Vanasse Hangen Brustlin, Inc.

Samples Loaded By

Date

606  
Data Processed By

Date

# ESS LABORATORY GCMS1 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
7/1/06		SV1 44	060650302		6F16045	
		SV1 45	0606376-04		10x	
		SV1 46	0606503-07			
7/1/06		SV1 47	-05			
7/2/06	1	SV1 2648	BPG003-TUN1	DETPP	✓	JLS
	1	SV1 27	BPG003-TUN1	DETPP	BPG003-TUN1 (M) 6F2611	
	2	SV1 28	BPG003-CCV1	SVING1	✓ CCV1 ↓ 6F27064	
	3	SV1 29	BF62117-BK1		✓ 6F2697	
	4	SV1 30	-BS1		✓	
	5	SV1 31	-BS1		✓ (RE) BAD INJECTION	
	6	SV1 32	0606374-01		✓ (RE) OK	
	7	SV1 33	-02		✓	
	8	SV1 34	-03		✓ (RE) OK	
	9	SV1 35	-04		✓	
	10	SV1 36	-05		✓	
	11	SV1 37	-06		✓	
	12	SV1 38	0606374 -07		✓ (RE) OK	
	13	SV1 39	0606373 -0117		✓ JLS 7/2/06	
	14	SV1 40	-18		✓ (RE) OK	
	15	SV1 41	-19		✓ JLS 7/2/06	
	16	SV1 42	-20		✓	
	17	SV1 43	0606373 -21		✓	
	18	SV1 44	0606503-02		✓ X10 (RE) 20x	
	19	SV1 45	-02		✓ X20	
	20	SV1 46	0606376-04		10x	
	21	SV1 47	0606503-07		✓ (RE) 10x	
7/2/06	22	SV1 48	-05	SVING1	✓	JLS
7/3/06	1	SV1 49	(SOI) BPG0030-TUN1	DETPP	6F2611 BPG0031(M)	JLS
7/3/06	5	SV1 50	BPG0030-CAL4	EPHRIAC	✓ 6F300195	JLS
7/3/06	32	SV1 51	BPG0030-CAL1	EPHRIAC	✓ 6F30002	JLS

Data File : Q:\SVOA\MS1\_MD\MD0706\MD070206\SV139428.D Vial: 2  
 Acq On : 2 Jul 106 3:31 pm Operator: VSC  
 Sample : BPG0003-CCV1 Inst : SVOA-MS1  
 Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NG.M  
 Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)  
 Last Update : Sun Jul 02 16:00:24 2006  
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00
2	N-Nitrosodimethylamine	0.111	0.075	31.8#	75	0.00
3	Pyridine	0.190	0.142	25.3	85	0.00
4 S	2-Fluorophenol (SURR)	1.483	1.556	-4.9	116	0.00
5	bis(2-Chloroethyl) ether	1.633	1.755	-7.5	116	0.00
6 S	Phenol-d5 (SURR)	1.833	1.970	-7.5	114	0.00
7 M	2-Chlorophenol	1.454	1.568	-7.8	116	0.00
8 MC	Phenol	2.245	2.448	-9.1	116	0.00
9	Aniline	2.318	2.543	-9.7	119	0.00
10 S	2-Chlorophenol-d4 (SURR)	1.441	1.549	-7.5	114	0.00
11	1,3-Dichlorobenzene	1.547	1.618	-4.6	115	0.00
12 MC	1,4-Dichlorobenzene	1.566	1.645	-5.0	115	0.00
13 S	1,2 Dichlorobenzene-d4 (SURR)	0.838	0.866	-3.4	110	0.00
14	1,2-Dichlorobenzene	1.394	1.442	-3.4	111	0.00
15	Benzyl Alcohol	1.171	1.174	-0.3	107	0.00
16	bis(2-chloroisopropyl) Ether	2.050	2.159	-5.3	114	0.00
17	2-Methylphenol	1.319	1.376	-4.3	114	0.00
18	Acetophenone	1.796	1.885	-5.0	116	0.00
19 MP	N-Nitroso-Di-n-Propylamine	1.016	1.021	-0.5	107	0.00
20	Hexachloroethane	0.601	0.631	-5.1	111	0.00
21	3+4-Methylphenol	1.369	1.352	1.2	107	0.00
22 I	Naphthalene-d8	1.000	1.000	0.0	110	0.00
23 S	Nitrobenzene-d5 (SURR)	0.364	0.417	-14.4	125	0.00
24	Nitrobenzene	0.364	0.396	-9.0	121	0.00
25	Isophorone	0.764	0.789	-3.3	117	0.00
26 C	2-Nitrophenol	0.203	0.239	-17.9	130	0.00
27	Benzoic Acid	0.244	0.260	-6.4	124	0.00
28	2,4-Dimethylphenol	0.340	0.371	-9.2	126	0.00
29	bis(2-Chloroethoxy)methane	0.505	0.521	-3.3	116	0.00
30 C	2,4-Dichlorophenol	0.273	0.289	-5.8	117	0.00
31 M	1,2,4-Trichlorobenzene	0.273	0.278	-2.1	113	0.00
32	Naphthalene	0.968	0.991	-2.4	112	0.00
33	4-Chloroaniline	0.434	0.459	-5.9	112	0.00
34 C	Hexachlorobutadiene	0.121	0.125	-3.3	113	0.00
35 MC	4-Chloro-3-Methylphenol	0.304	0.327	-7.6	120	0.00
36	2-Methylnaphthalene	0.640	0.669	-4.6	114	0.00
37	1-Methylnaphthalene	0.635	0.660	-3.9	114	0.00
38 I	Acenaphthene-d10	1.000	1.000	0.0	113	0.00
39 P	Hexachlorocyclopentadiene	0.262	0.279	-6.3	138	0.00
40 C	2,4,6-Trichlorophenol	0.377	0.398	-5.5	120	0.00
41	2,4,5-Trichlorophenol	0.397	0.426	-7.3	119	0.00
42 S	2-Fluorobiphenyl (SURR)	1.245	1.280	-2.8	113	0.00
43	Biphenyl	1.471	1.422	3.3	105	0.00
44	2-Chloronaphthalene	1.289	1.230	4.6	106	0.00
45	Dimethylphthalate	1.349	1.391	-3.1	117	0.00
46	Acenaphthylene	1.979	2.084	-5.3	119	0.00
47	2,6-Dinitrotoluene	0.304	0.360	-18.4	129	0.00
48	2-Nitroaniline	0.386	0.434	-12.5	131	0.00
49 MC	Acenaphthene	1.195	1.216	-1.8	113	0.00
50 P	2,4-Dinitrophenol	0.159	0.136	14.4	144	0.00
51	Dibenzofuran	1.628	1.665	-2.2	115	0.00
52	4-Nitrophenol	0.254	0.283	-11.2	127	0.00
53 MP	3-Nitroaniline	0.457	0.483	-5.8	116	0.00

#) = Out of Range  
 V139428.D SV1NG.M



Data File : Q:\SVOA\MS1\_MD\MD0706\MD070206\SV139428.D Vial: 2  
Acq On : 2 Jul 106 3:31 pm Operator: VSC  
Sample : BPG0003-CCV1 Inst : SVOA-MS1  
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NG.M  
Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)  
Last Update : Sun Jul 02 16:00:24 2006  
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
54 M	2,4-Dinitrotoluene	0.388	0.471	-21.4	137	0.00
55	Fluorene	1.237	1.278	-3.3	111	0.00
56	2,3,4,6-Tetrachlorophenol	0.280	0.294	-4.9	119	0.00
57	Diethylphthalate	1.418	1.420	-0.1	112	0.00
58	4-Chloro-phenyl-phenyl ethe	0.546	0.600	-9.9	120	0.00
59 I	Phenanthrene-d10	1.000	1.000	0.0	114	0.00
60	4-Nitroaniline	0.302	0.348	-15.1	127	0.00
61	4,6-Dinitro-2-Methylphenol	0.131	0.170	-30.3#	151	0.00
62 C	N-nitrosodiphenylamine	0.742	0.780	-5.0	115	0.00
63	Azobenzene	1.141	1.260	-10.4	129	0.00
64 S	2,4,6-Tribromophenol (SURR)	0.103	0.114	-11.1	124	0.00
65	4-Bromophenyl-phenylether	0.198	0.204	-3.4	116	0.00
66	Hexachlorobenzene	0.224	0.231	-3.1	119	0.00
67 MC	Pentachlorophenol	0.128	0.104	18.5	94	0.00
68	Phenanthrene	1.165	1.206	-3.5	115	0.00
69	Anthracene	1.179	1.229	-4.2	115	0.00
70	Carbazole	1.220	1.252	-2.6	116	0.00
71	Di-n-butylphthalate	1.762	1.784	-1.2	115	0.00
72 C	Fluoranthene	1.160	1.201	-3.5	118	0.00
73	Benzidine	0.582	0.686	-18.0	140	0.00
74 I	Chrysene-d12	1.000	1.000	0.0	128	0.00
75 M	Pyrene	1.718	1.562	9.1	118	0.00
76 S	Terphenyl-d14 (SURR)	1.023	0.938	8.2	118	0.00
77	Butylbenzylphthalate	1.103	1.002	9.2	115	0.00
78	3,3'-Dichlorobenzidine	0.520	0.487	6.4	117	0.00
79	Benzo(a)anthracene	1.514	1.380	8.9	120	0.00
80	Chrysene	1.351	1.217	9.9	116	0.00
81	bis(2-Ethylhexyl)phthalate	1.480	1.369	7.5	118	0.00
82 I	Perylene-d12	1.000	1.000	0.0	122	0.00
83 C	Di-n-octylphthalate	2.352	2.297	2.3	115	0.00
84	Benzo(b)fluoranthene	1.491	1.548	-3.8	143	0.00
85	Benzo(k)fluoranthene	0.993	0.909	8.5	114	0.00
86 C	Benzo(a)pyrene	1.179	1.174	0.4	119	0.00
7	Indeno(1,2,3-Cd)Pyrene	1.213	1.281	-5.6	120	0.00
8	Dibenzo(a,h)Anthracene	1.021	1.065	-4.4	117	0.00
9	Benzo(g,h,i)perylene	1.076	1.068	0.8	116	0.00

#) = Out of Range  
SV139428.D SV1NG.M

Data File : Q:\SVOA\MS1\_MD\MD0706\MD070206\SV139428.D Vial: 2  
 Acq On : 2 Jul 106 3:31 pm Operator: VSC  
 Sample : BPG0003-CCV1 Inst : SVOA-MS1  
 Misc : Multiplr: 1.00  
 Quant Time: Jul 2 15:57 19106

Method : C:\HPCHEM\1\METHODS\SV1NG.M  
 Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)  
 Last Update : Sun Jul 02 15:56:01 2006  
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.79	152	531670	40.00	ng/uL	0.00
22) Naphthalene-d8	5.14	136	1987137	40.00	ng/uL	0.00
38) Acenaphthene-d10	7.54	164	904471	40.00	ng/uL	0.00
59) Phenanthrene-d10	10.10	188	1308121	40.00	ng/uL	0.00
74) Chrysene-d12	15.24	240	1072660	40.00	ng/uL	0.00
82) Perylene-d12	17.86	264	1124961	40.00	ng/uL	-1.12

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
4) 2-Fluorophenol (SURR)	1.91	112	1034161	52.45	ng/uL	34.97%
6) Phenol-d5 (SURR)	3.49	99	1309553	53.74	ng/uL	35.83%
10) 2-Chlorophenol-d4 (SURR)	3.58	132	1029121	53.73	ng/uL	35.82%
13) 1,2-Dichlorobenzene-d4 (SUR)	3.99	152	575781	51.71	ng/uL	51.71%
23) Nitrobenzene-d5 (SURR)	4.40	82	1036081	57.22	ng/uL	57.22%
42) 2-Fluorobiphenyl (SURR)	6.54	172	1446709	51.38	ng/uL	51.38%
64) 2,4,6-Tribromophenol (SURR)	8.89	330	186294	55.56	ng/uL	37.04%
76) Terphenyl-d14 (SURR)	13.26	244	1258009	45.88	ng/uL	45.88%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) N-Nitrosodimethylamine	0.80	74	50089	34.08	ng/uLm	0
3) Pyridine	0.80	79	94125	37.33	ng/uLm	0
5) bis(2-Chloroethyl)ether	3.57	93	1166436	53.73	ng/uL	98
7) 2-Chlorophenol	3.60	128	1042167	53.92	ng/uL	93
8) Phenol	3.51	94	1627183	54.54	ng/uL	82
9) Aniline	3.48	93	1689933	54.84	ng/uL	99
11) 1,3-Dichlorobenzene	3.75	146	1075099	52.29	ng/uL	99
12) 1,4-Dichlorobenzene	3.81	146	1093187	52.52	ng/uL	100
14) 1,2-Dichlorobenzene	4.00	146	958563	51.72	ng/uL	99
15) Benzyl Alcohol	3.99	79	780497	50.16	ng/uL	93
16) bis(2-chloroisopropyl)Ethe	4.15	45	1434956	52.66	ng/uL	96
17) 2-Methylphenol	4.14	108	914546	52.17	ng/uL	99
18) Acetophenone	4.25	105	1252647	52.48	ng/uL	98
19) N-Nitroso-Di-n-Propylamine	4.30	70	678848	50.26	ng/uL	98
20) Hexachloroethane	4.31	117	419567	52.54	ng/uL	100
21) 3+4-Methylphenol	4.30	108	898492	49.39	ng/uL	98
24) Nitrobenzene	4.42	77	984436	54.51	ng/uL	93
25) Isophorone	4.67	82	1960880	51.65	ng/uL	98
26) 2-Nitrophenol	4.75	139	593939	58.95	ng/uL	98
27) Benzoic Acid	5.02	105	645797	47.27	ng/uL	99
28) 2,4-Dimethylphenol	4.83	107	921539	54.58	ng/uL	98
29) bis(2-Chloroethoxy)methane	4.92	93	1295225	51.66	ng/uL	98
30) 2,4-Dichlorophenol	5.01	162	717540	52.88	ng/uL	97
31) 1,2,4-Trichlorobenzene	5.10	180	691494	51.05	ng/uL	100
32) Naphthalene	5.16	128	2462744	51.19	ng/uL	99
33) 4-Chloroaniline	5.25	127	1141077	52.93	ng/uL	99
34) Hexachlorobutadiene	5.37	225	310651	51.67	ng/uL	99
35) 4-Chloro-3-Methylphenol	5.87	107	812746	53.79	ng/uL	98
36) 2-Methylnaphthalene	5.99	142	1662218	52.30	ng/uL	100
37) 1-Methylnaphthalene	6.14	142	1638657	51.97	ng/uL	100
39) Hexachlorocyclopentadiene	6.31	237	315068	53.16	ng/uL	97
40) 2,4,6-Trichlorophenol	6.43	196	450355	52.77	ng/uL	99
41) 2,4,5-Trichlorophenol	6.50	196	481343	53.64	ng/uL	99
43) Biphenyl	6.67	154	1607596	48.34	ng/uL	99
44) 2-Chloronaphthalene	6.67	162	1390285	47.70	ng/uL	97
45) Dimethylphthalate	7.23	163	1572390	51.55	ng/uL	99
46) Acenaphthylene	7.29	152	2356218	52.65	ng/uL	99
47) 2,6-Dinitrotoluene	7.32	165	406936	59.21	ng/uL	92
48) 2-Nitroaniline	6.87	65	491154	56.25	ng/uL	99

(#) = qualifier out of range (m) = manual integration  
 SV139428.D SV1NG.M Sun Jul 02 15:58:061006

Data File : Q:\SVOA\MS1\_MD\MD0706\MD070206\SV139428.D Vial: 2  
 Acq On : 2 Jul 106 3:31 pm Operator: VSC  
 Sample : BPG0003-CCV1 Inst : SVOA-MS1  
 Misc : Multiplr: 1.00  
 Quant Time: Jul 2 15:57 19106

Method : C:\HPCHEM\1\METHODS\SV1NG.M  
 Title : ELEMENT ID: 0606031(SOIL) 0606032(AQUEOUS)  
 Last Update : Sun Jul 02 15:56:01 2006  
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49) Acenaphthene	7.59	153	1374878	50.88	ng/uL	100
50) 2,4-Dinitrophenol	7.69	184	153478	51.45	ng/uL	98
51) Dibenzofuran	7.85	168	1881903	51.12	ng/uL	77
52) 4-Nitrophenol	7.86	65	320039	55.62	ng/uL	91
53) 3-Nitroaniline	7.53	65	546188	52.88	ng/uL	96
54) 2,4-Dinitrotoluene	7.95	165	532789	56.48	ng/uL	99
55) Fluorene	8.43	166	1444851	51.65	ng/uL	100
56) 2,3,4,6-Tetrachlorophenol	8.15	232	332383	52.44	ng/ul	97
57) Diethylphthalate	8.42	149	1605239	50.06	ng/uL	99
58) 4-Chloro-phenyl-phenyl eth	8.47	204	678272	54.95	ng/uL	99
60) 4-Nitroaniline	8.58	138	569196	57.57	ng/uL	92
61) 4,6-Dinitro-2-Methylphenol	8.65	198	278359	54.26	ng/uL	82
62) N-nitrosodiphenylamine	8.70	169	1275105	52.52	ng/uL	99
63) Azobenzene	8.74	77	2060835	55.22	ng/ul	100
65) 4-Bromophenyl-phenylether	9.32	248	334188	51.70	ng/uL	96
66) Hexachlorobenzene	9.56	284	378052	51.54	ng/uL	97
67) Pentachlorophenol	9.91	266	170346	40.75	ng/uL	98
68) Phenanthrene	10.15	178	1971349	51.76	ng/uL	99
69) Anthracene	10.23	178	2009505	52.12	ng/uL	100
70) Carbazole	10.57	167	2046712	51.28	ng/uL	100
71) Di-n-butylphthalate	11.48	149	2917430	50.62	ng/uL	100
72) Fluoranthene	12.41	202	1963601	51.77	ng/uL	91
73) Benzidine	12.76	184	1122007	58.98	ng/ul	96
75) Pyrene	12.83	202	2094362	45.46	ng/uL	97
77) Butylbenzylphthalate	14.38	149	1343271	45.42	ng/uLm	48
78) 3,3'-Dichlorobenzidine	15.27	252	652926	46.80	ng/uLm	0
79) Benzo(a)anthracene	15.20	228	1849826	45.55	ng/uLm	53
80) Chrysene	15.29	228	1631802	45.03	ng/uLm	51
81) bis(2-Ethylhexyl)phthalate	15.62	149	1835586	46.26	ng/uLm	49
83) Di-n-octylphthalate	16.78	149	3230317	48.84	ng/uLm	73
84) Benzo(b)fluoranthene	17.23	252	2176775	51.91	ng/uLm	53
85) Benzo(k)fluoranthene	17.27	252	1278104	47.33	ng/uLm	48
86) Benzo(a)pyrene	17.76	252	1650586	49.79	ng/uLm	1
87) Indeno(1,2,3-Cd)Pyrene	19.51	276	1801620	52.81	ng/uLm	0
88) Dibenzo(a,h)Anthracene	19.55	278	1497789	52.18	ng/uLm	0
89) Benzo(g,h,i)perylene	19.87	276	1502209	49.62	ng/uLm	0

# Semi-Volatile Organics Logbooks

# ESS Organic Preparation Logbook

Project #: 6100377  
 Prep Date: 10/26/10  
 Batch ID: SAFL2605  
 Extraction Method: 3541

Surrogate ID# A16P08077 Matrix Spike ID# U11077  
 B NA C NA

Analytical Matrix: AD1  
 Extraction Time: Start: 0900 Finish: 1100

Split Extraction\*   
 \* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH<sub>2</sub>Cl<sub>2</sub>) is transferred as Volume 2.

ESS ID	Vol (ml) Wt (g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Extract Vol (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Vol #1 (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Vol #2 (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Date	Bath Temp (C)	pH	Discard bottle*	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
SAFL2605-0	20.0	1	NA	1	NA	NA	10/26/10	UD	NA	NA		SA	NA	JS
-01	20.0	1	1	1	1	1								
-02	20.0	1	1	1	1	1								
-03	20.0	1	1	1	1	1								
-04	20.0	1	1	1	1	1								
-05	20.0	1	1	1	1	1								
-06	20.0	1	1	1	1	1								
-07	20.0	1	1	1	1	1								
-08	20.0	1	1	1	1	1								
-09	20.0	1	1	1	1	1								
-10	20.0	1	1	1	1	1								
-11	20.0	1	1	1	1	1								
-12	20.0	1	1	1	1	1								
-13	20.0	1	1	1	1	1								
-14	20.0	1	1	1	1	1								
-15	20.0	1	1	1	1	1								
-16	20.0	1	1	1	1	1								
-17	20.0	1	1	1	1	1								
-18	20.0	1	1	1	1	1								
-19	20.0	1	1	1	1	1								

- Analysis Performed
- PCB
  - B/N SVOA
  - SVOA
  - LL PAH
  - REST
  - TP GC
  - B/S-2
  - PAH

Prepared By: BEA Glasswool: PTBBLWVF Method #(s): 737D CH<sub>2</sub>Cl<sub>2</sub> lot # 69497 NaOH ID# NA  
 Hexane lot# NA Acetone lot# NA Na<sub>2</sub>SO<sub>4</sub> ID# PTBBLW200C  
 Control #50.0001-0603A BATCH ID/Test: BE62605 BATCH ID/Test: PTBBLW194 Page 1

\*\*Check off column if entire sample used and bottle discarded.

*continued from pg 138*  
**ESS Organic Preparation Logbook**

Project #: 060373  
 Prep Date: 1/24/07  
 Batch ID: 060373  
 Extraction Method: SMI

Surrogate ID# A 060373  
 Matrix Spike ID# D 060373  
 Analytical Matrix: 001

Extraction Time: 03:00  
 Start: 03:00  
 Finish: 06:00

**Split Extraction\***   
 \* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH<sub>2</sub>Cl<sub>2</sub>) is transferred as Volume 2.

ESS ID	Vol(ml)/Wt (g)	Surrogate (oil or #H)	Matrix Spike (ul or ml)	Extract Vol (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Vol #1 (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Vol #2 (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
<del>060373-29</del>	<del>20.1</del>	<del>1</del>	<del>NA</del>	<del>1</del>	<del>1</del>	<del>NA</del>	<del>06/24/07</del>	<del>ND</del>	<del>NA</del>	<del>NA</del>	<del>SMI</del>	<del>SMI</del>	<del>SMI</del>	
<del>060373-28</del>	<del>20.3</del>	<del>1</del>	<del>NA</del>	<del>1</del>	<del>1</del>	<del>NA</del>	<del>06/24/07</del>	<del>ND</del>	<del>NA</del>	<del>NA</del>	<del>SMI</del>	<del>SMI</del>	<del>SMI</del>	

- Analysis Performed
- PCB
  - B/N SVOA
  - SVOA
  - LL PAH
  - PEST
  - TPH/630
  - BIS-2
  - PAH

Prepared By: ELN Glasswool 060373 Method #(s): 0320

Acid Washed: Y  N  H<sub>2</sub>SO<sub>4</sub> ID# NA  
 Cu Cleaned: Y  N  Cu ID# NA  
 Florisil: Y  N  Lot# NA  
 Silica Column/Carbon prep: Y  N  Lot# NA

CH<sub>2</sub>Cl<sub>2</sub> lot# CO475 NaOH ID# NA  
 Hexane lot# NA Na<sub>2</sub>SO<sub>4</sub> ID# 060373  
 Acetone lot# NA

BATCH ID/Test: 060373 BATCH ID/Test: 060373

Control #50.0001-0603A

# Semi-Volatile Organics Data Package

LL PAM (SIMS)

*Needs PAM 207*

*SCAL*

*Seq*

*+ Run by*

# Semi-Volatile Organics Sample Data



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3101  
Date Sampled: 06/21/06 10:20  
Percent Solids: 24  
Initial Volume: 19.2  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-01  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	109	1	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	109	1	07/05/06
Acenaphthene	ND	ug/Kg dry	109	1	07/05/06
Acenaphthylene	ND	ug/Kg dry	109	1	07/05/06
Anthracene	171	ug/Kg dry	109	1	07/05/06
Benzo(a)anthracene	671	ug/Kg dry	109	1	07/05/06
Benzo(a)pyrene	503	ug/Kg dry	109	1	07/05/06
Benzo(b)fluoranthene	1180	ug/Kg dry	109	1	07/05/06
Benzo(g,h,i)perylene	124	ug/Kg dry	109	1	07/05/06
Benzo(k)fluoranthene	326	ug/Kg dry	109	1	07/05/06
Chrysene	579	ug/Kg dry	109	1	07/05/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	109	1	07/05/06
Fluoranthene	1510	ug/Kg dry	109	1	07/05/06
Fluorene	ND	ug/Kg dry	109	1	07/05/06
Indeno(1,2,3-cd)Pyrene	128	ug/Kg dry	109	1	07/05/06
Naphthalene	ND	ug/Kg dry	109	1	07/05/06
Phenanthrene	757	ug/Kg dry	109	1	07/05/06
Pyrene	953	ug/Kg dry	109	1	07/05/06

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	34 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	45 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	47 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	34 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3104  
Date Sampled: 06/21/06 10:50  
Percent Solids: 75  
Initial Volume: 19.9  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-02  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	33.5	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	33.5	1	07/03/06
Acenaphthene	ND	ug/Kg dry	33.5	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	33.5	1	07/03/06
Anthracene	ND	ug/Kg dry	33.5	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	33.5	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	33.5	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	33.5	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	33.5	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	33.5	1	07/03/06
Chrysene	ND	ug/Kg dry	33.5	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	33.5	1	07/03/06
Fluoranthene	ND	ug/Kg dry	33.5	1	07/03/06
Fluorene	ND	ug/Kg dry	33.5	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	33.5	1	07/03/06
Naphthalene	ND	ug/Kg dry	33.5	1	07/03/06
Phenanthrene	ND	ug/Kg dry	33.5	1	07/03/06
Pyrene	ND	ug/Kg dry	33.5	1	07/03/06

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>61 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>81 %</i>		<i>30-130</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>83 %</i>		<i>30-130</i>
<i>Surrogate: p-Terphenyl-d14</i>	<i>86 %</i>		<i>30-130</i>

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3001  
Date Sampled: 06/21/06 13:30  
Percent Solids: 80  
Initial Volume: 20.1  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-03  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	31.1	1	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	31.1	1	07/05/06
Acenaphthene	ND	ug/Kg dry	31.1	1	07/05/06
Acenaphthylene	ND	ug/Kg dry	31.1	1	07/05/06
<b>Anthracene</b>	<b>85.2</b>	ug/Kg dry	31.1	1	07/05/06
<b>Benzo(a)anthracene</b>	<b>376</b>	ug/Kg dry	31.1	1	07/05/06
<b>Benzo(a)pyrene</b>	<b>239</b>	ug/Kg dry	31.1	1	07/05/06
<b>Benzo(b)fluoranthene</b>	<b>433</b>	ug/Kg dry	31.1	1	07/05/06
<b>Benzo(g,h,i)perylene</b>	<b>152</b>	ug/Kg dry	31.1	1	07/05/06
<b>Benzo(k)fluoranthene</b>	<b>137</b>	ug/Kg dry	31.1	1	07/05/06
Chrysene	299	ug/Kg dry	31.1	1	07/05/06
Dibenzo(a,h)Anthracene	40.4	ug/Kg dry	31.1	1	07/05/06
Fluoranthene	E 703	ug/Kg dry	31.1	1	07/05/06
Fluorene	80.2	ug/Kg dry	31.1	1	07/05/06
Indeno(1,2,3-cd)Pyrene	124	ug/Kg dry	31.1	1	07/05/06
Naphthalene	34.2	ug/Kg dry	31.1	1	07/05/06
Phenanthrene	466	ug/Kg dry	31.1	1	07/05/06
Pyrene	E 1290	ug/Kg dry	31.1	1	07/05/06

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	48 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	73 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	72 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	112 %		30-130

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JUL 21 2006

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3001  
Date Sampled: 06/21/06 13:30  
Percent Solids: 80  
Initial Volume: 20.1  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-03RE1  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	155	5	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	155	5	07/05/06
Acenaphthene	ND	ug/Kg dry	155	5	07/05/06
Acenaphthylene	ND	ug/Kg dry	155	5	07/05/06
Anthracene	ND	ug/Kg dry	155	5	07/05/06
<b>Benzo(a)anthracene</b>	<b>243</b>	ug/Kg dry	155	5	07/05/06
Benzo(a)pyrene	ND	ug/Kg dry	155	5	07/05/06
<b>Benzo(b)fluoranthene</b>	<b>382</b>	ug/Kg dry	155	5	07/05/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	155	5	07/05/06
Benzo(k)fluoranthene	ND	ug/Kg dry	155	5	07/05/06
<b>Chrysene</b>	<b>199</b>	ug/Kg dry	155	5	07/05/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	155	5	07/05/06
<b>Fluoranthene</b>	<b>535</b>	ug/Kg dry	155	5	07/05/06
Fluorene	ND	ug/Kg dry	155	5	07/05/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	155	5	07/05/06
Naphthalene	ND	ug/Kg dry	155	5	07/05/06
<b>Phenanthrene</b>	<b>295</b>	ug/Kg dry	155	5	07/05/06
<b>Pyrene</b>	<b>420</b>	ug/Kg dry	155	5	07/05/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	38 %		30-130
Surrogate: 2-Fluorobiphenyl	53 %		30-130
Surrogate: Nitrobenzene-d5	49 %		30-130
Surrogate: p-Terphenyl-d14	52 %		30-130

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JUL 24 2006

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED3004

Date Sampled: 06/21/06 13:45

Percent Solids: 47

Initial Volume: 21

Final Volume: 1

Extraction Method: 3541

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-04

Sample Matrix: Soil

Analyst: VSC

Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	50.7	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	50.7	1	07/03/06
Acenaphthene	ND	ug/Kg dry	50.7	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	50.7	1	07/03/06
Anthracene	ND	ug/Kg dry	50.7	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	50.7	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	50.7	1	07/03/06
<b>Benzo(b)fluoranthene</b>	<b>52.7</b>	ug/Kg dry	50.7	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	50.7	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	50.7	1	07/03/06
Chrysene	ND	ug/Kg dry	50.7	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	50.7	1	07/03/06
<b>Fluoranthene</b>	<b>82.1</b>	ug/Kg dry	50.7	1	07/03/06
Fluorene	ND	ug/Kg dry	50.7	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	50.7	1	07/03/06
Naphthalene	ND	ug/Kg dry	50.7	1	07/03/06
Phenanthrene	ND	ug/Kg dry	50.7	1	07/03/06
<b>Pyrene</b>	<b>65.9</b>	ug/Kg dry	50.7	1	07/03/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	67 %		30-130
Surrogate: 2-Fluorobiphenyl	87 %		30-130
Surrogate: Nitrobenzene-d5	92 %		30-130
Surrogate: p-Terphenyl-d14	83 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2801  
Date Sampled: 06/21/06 14:02  
Percent Solids: 27  
Initial Volume: 20.3  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-05  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	91.2	1	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	91.2	1	07/05/06
Acenaphthene	ND	ug/Kg dry	91.2	1	07/05/06
Acenaphthylene	ND	ug/Kg dry	91.2	1	07/05/06
Anthracene	403	ug/Kg dry	91.2	1	07/05/06
Benzo(a)anthracene	1290	ug/Kg dry	91.2	1	07/05/06
Benzo(a)pyrene	993	ug/Kg dry	91.2	1	07/05/06
Benzo(b)fluoranthene	E 1610	ug/Kg dry	91.2	1	07/05/06
Benzo(g,h,i)perylene	296	ug/Kg dry	91.2	1	07/05/06
Benzo(k)fluoranthene	668	ug/Kg dry	91.2	1	07/05/06
Chrysene	1160	ug/Kg dry	91.2	1	07/05/06
Dibenzo(a,h)Anthracene	91.2	ug/Kg dry	91.2	1	07/05/06
Fluoranthene	E 2760	ug/Kg dry	91.2	1	07/05/06
Fluorene	135	ug/Kg dry	91.2	1	07/05/06
Indeno(1,2,3-cd)Pyrene	314	ug/Kg dry	91.2	1	07/05/06
Naphthalene	ND	ug/Kg dry	91.2	1	07/05/06
Phenanthrene	E 1600	ug/Kg dry	91.2	1	07/05/06
Pyrene	E 1630	ug/Kg dry	91.2	1	07/05/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	61 %		30-130
Surrogate: 2-Fluorobiphenyl	83 %		30-130
Surrogate: Nitrobenzene-d5	52 %		30-130
Surrogate: p-Terphenyl-d14	70 %		30-130

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JUL 27 2006

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2801  
Date Sampled: 06/21/06 14:02  
Percent Solids: 27  
Initial Volume: 20.3  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-05RE1  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	456	5	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	456	5	07/05/06
Acenaphthene	ND	ug/Kg dry	456	5	07/05/06
Acenaphthylene	ND	ug/Kg dry	456	5	07/05/06
Anthracene	ND	ug/Kg dry	456	5	07/05/06
<b>Benzo(a)anthracene</b>	<b>912</b>	ug/Kg dry	456	5	07/05/06
<b>Benzo(a)pyrene</b>	<b>538</b>	ug/Kg dry	456	5	07/05/06
<b>Benzo(b)fluoranthene</b>	<b>1490</b>	ug/Kg dry	456	5	07/05/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	456	5	07/05/06
Benzo(k)fluoranthene	ND	ug/Kg dry	456	5	07/05/06
<b>Chrysene</b>	<b>812</b>	ug/Kg dry	456	5	07/05/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	456	5	07/05/06
<b>Fluoranthene</b>	<b>2310</b>	ug/Kg dry	456	5	07/05/06
Fluorene	ND	ug/Kg dry	456	5	07/05/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	456	5	07/05/06
Naphthalene	ND	ug/Kg dry	456	5	07/05/06
<b>Phenanthrene</b>	<b>1140</b>	ug/Kg dry	456	5	07/05/06
<b>Pyrene</b>	<b>1290</b>	ug/Kg dry	456	5	07/05/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	52 %		30-130
Surrogate: 2-Fluorobiphenyl	66 %		30-130
Surrogate: Nitrobenzene-d5	65 %		30-130
Surrogate: p-Terphenyl-d14	58 %		30-130

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JUL 2 2006

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2803  
Date Sampled: 06/21/06 14:15  
Percent Solids: 11  
Initial Volume: 19.6  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-06  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	232	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	232	1	07/03/06
Acenaphthene	ND	ug/Kg dry	232	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	232	1	07/03/06
Anthracene	ND	ug/Kg dry	232	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	232	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	232	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	232	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	232	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	232	1	07/03/06
Chrysene	ND	ug/Kg dry	232	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	232	1	07/03/06
Fluoranthene	ND	ug/Kg dry	232	1	07/03/06
Fluorene	ND	ug/Kg dry	232	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	232	1	07/03/06
Naphthalene	ND	ug/Kg dry	232	1	07/03/06
Phenanthrene	ND	ug/Kg dry	232	1	07/03/06
Pyrene	ND	ug/Kg dry	232	1	07/03/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	67 %		30-130
Surrogate: 2-Fluorobiphenyl	93 %		30-130
Surrogate: Nitrobenzene-d5	91 %		30-130
Surrogate: p-Terphenyl-d14	79 %		30-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2901  
Date Sampled: 06/21/06 14:42  
Percent Solids: 25  
Initial Volume: 19.9  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-07  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	101	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	101	1	07/03/06
Acenaphthene	ND	ug/Kg dry	101	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	101	1	07/03/06
<b>Anthracene</b>	<b>169</b>	ug/Kg dry	101	1	07/03/06
<b>Benzo(a)anthracene</b>	<b>687</b>	ug/Kg dry	101	1	07/03/06
<b>Benzo(a)pyrene</b>	<b>543</b>	ug/Kg dry	101	1	07/03/06
<b>Benzo(b)fluoranthene</b>	<b>882</b>	ug/Kg dry	101	1	07/03/06
<b>Benzo(g,h,i)perylene</b>	<b>117</b>	ug/Kg dry	101	1	07/03/06
<b>Benzo(k)fluoranthene</b>	<b>396</b>	ug/Kg dry	101	1	07/03/06
<b>Chrysene</b>	<b>617</b>	ug/Kg dry	101	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	101	1	07/03/06
<b>Fluoranthene</b>	<b>1340</b>	ug/Kg dry	101	1	07/03/06
Fluorene	ND	ug/Kg dry	101	1	07/03/06
<b>Indeno(1,2,3-cd)Pyrene</b>	<b>125</b>	ug/Kg dry	101	1	07/03/06
Naphthalene	ND	ug/Kg dry	101	1	07/03/06
<b>Phenanthrene</b>	<b>689</b>	ug/Kg dry	101	1	07/03/06
<b>Pyrene</b>	<b>874</b>	ug/Kg dry	101	1	07/03/06

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	75 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	105 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	108 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	81 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2904  
Date Sampled: 06/21/06 14:55  
Percent Solids: 26  
Initial Volume: 20.1  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-08  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	95.7	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	95.7	1	07/03/06
Acenaphthene	ND	ug/Kg dry	95.7	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	95.7	1	07/03/06
Anthracene	ND	ug/Kg dry	95.7	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	95.7	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	95.7	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	95.7	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	95.7	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	95.7	1	07/03/06
Chrysene	ND	ug/Kg dry	95.7	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	95.7	1	07/03/06
Fluoranthene	ND	ug/Kg dry	95.7	1	07/03/06
Fluorene	ND	ug/Kg dry	95.7	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	95.7	1	07/03/06
Naphthalene	ND	ug/Kg dry	95.7	1	07/03/06
Phenanthrene	ND	ug/Kg dry	95.7	1	07/03/06
Pyrene	ND	ug/Kg dry	95.7	1	07/03/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	67 %		30-130
Surrogate: 2-Fluorobiphenyl	91 %		30-130
Surrogate: Nitrobenzene-d5	97 %		30-130
Surrogate: p-Terphenyl-d14	84 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3201  
Date Sampled: 06/21/06 15:22  
Percent Solids: 72  
Initial Volume: 20.4  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-09  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>		<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene		ND	ug/Kg dry	34.0	1	07/05/06
2-Methylnaphthalene		ND	ug/Kg dry	34.0	1	07/05/06
Acenaphthene		120	ug/Kg dry	34.0	1	07/05/06
Acenaphthylene		ND	ug/Kg dry	34.0	1	07/05/06
Anthracene		438	ug/Kg dry	34.0	1	07/05/06
Benzo(a)anthracene	E	1090	ug/Kg dry	34.0	1	07/05/06
Benzo(a)pyrene	E	633	ug/Kg dry	34.0	1	07/05/06
Benzo(b)fluoranthene	E	786	ug/Kg dry	34.0	1	07/05/06
Benzo(g,h,i)perylene		191	ug/Kg dry	34.0	1	07/05/06
Benzo(k)fluoranthene		430	ug/Kg dry	34.0	1	07/05/06
Chrysene	E	763	ug/Kg dry	34.0	1	07/05/06
Dibenzo(a,h)Anthracene		66.7	ug/Kg dry	34.0	1	07/05/06
Fluoranthene	E	1990	ug/Kg dry	34.0	1	07/05/06
Fluorene		156	ug/Kg dry	34.0	1	07/05/06
Indeno(1,2,3-cd)Pyrene		207	ug/Kg dry	34.0	1	07/05/06
Naphthalene		45.6	ug/Kg dry	34.0	1	07/05/06
Phenanthrene	E	1520	ug/Kg dry	34.0	1	07/05/06
Pyrene	E	1180	ug/Kg dry	34.0	1	07/05/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	71 %		30-130
Surrogate: 2-Fluorobiphenyl	90 %		30-130
Surrogate: Nitrobenzene-d5	53 %		30-130
Surrogate: p-Terphenyl-d14	67 %		30-130

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3201  
Date Sampled: 06/21/06 15:22  
Percent Solids: 72  
Initial Volume: 20.4  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-09RE1  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	170	5	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	170	5	07/05/06
Acenaphthene	ND	ug/Kg dry	170	5	07/05/06
Acenaphthylene	ND	ug/Kg dry	170	5	07/05/06
<b>Anthracene</b>	<b>364</b>	ug/Kg dry	170	5	07/05/06
<b>Benzo(a)anthracene</b>	<b>640</b>	ug/Kg dry	170	5	07/05/06
<b>Benzo(a)pyrene</b>	<b>497</b>	ug/Kg dry	170	5	07/05/06
<b>Benzo(b)fluoranthene</b>	<b>892</b>	ug/Kg dry	170	5	07/05/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	170	5	07/05/06
<b>Benzo(k)fluoranthene</b>	<b>306</b>	ug/Kg dry	170	5	07/05/06
<b>Chrysene</b>	<b>551</b>	ug/Kg dry	170	5	07/05/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	170	5	07/05/06
<b>Fluoranthene</b>	<b>1560</b>	ug/Kg dry	170	5	07/05/06
Fluorene	ND	ug/Kg dry	170	5	07/05/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	170	5	07/05/06
Naphthalene	ND	ug/Kg dry	170	5	07/05/06
<b>Phenanthrene</b>	<b>1060</b>	ug/Kg dry	170	5	07/05/06
<b>Pyrene</b>	<b>895</b>	ug/Kg dry	170	5	07/05/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	64 %		30-130
Surrogate: 2-Fluorobiphenyl	69 %		30-130
Surrogate: Nitrobenzene-d5	73 %		30-130
Surrogate: p-Terphenyl-d14	53 %		30-130

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3204  
Date Sampled: 06/21/06 15:34  
Percent Solids: 80  
Initial Volume: 20.2  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-10  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	30.9	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	30.9	1	07/03/06
Acenaphthene	ND	ug/Kg dry	30.9	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	30.9	1	07/03/06
Anthracene	ND	ug/Kg dry	30.9	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	30.9	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	30.9	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	30.9	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	30.9	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	30.9	1	07/03/06
Chrysene	ND	ug/Kg dry	30.9	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	30.9	1	07/03/06
Fluoranthene	ND	ug/Kg dry	30.9	1	07/03/06
Fluorene	ND	ug/Kg dry	30.9	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	30.9	1	07/03/06
Naphthalene	ND	ug/Kg dry	30.9	1	07/03/06
Phenanthrene	ND	ug/Kg dry	30.9	1	07/03/06
Pyrene	ND	ug/Kg dry	30.9	1	07/03/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	59 %		30-130
Surrogate: 2-Fluorobiphenyl	76 %		30-130
Surrogate: Nitrobenzene-d5	79 %		30-130
Surrogate: p-Terphenyl-d14	74 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2001  
Date Sampled: 06/22/06 08:40  
Percent Solids: 43  
Initial Volume: 19  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-12  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	61.2	1	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	61.2	1	07/05/06
Acenaphthene	153	ug/Kg dry	61.2	1	07/05/06
Acenaphthylene	781	ug/Kg dry	61.2	1	07/05/06
Anthracene	E 3090	ug/Kg dry	61.2	1	07/05/06
Benzo(a)anthracene	E 15100	ug/Kg dry	61.2	1	07/05/06
Benzo(a)pyrene	E 7870	ug/Kg dry	61.2	1	07/05/06
Benzo(b)fluoranthene	E 14800	ug/Kg dry	61.2	1	07/05/06
Benzo(g,h,i)perylene	E 1920	ug/Kg dry	61.2	1	07/05/06
Benzo(k)fluoranthene	E 4460	ug/Kg dry	61.2	1	07/05/06
Chrysene	E 8940	ug/Kg dry	61.2	1	07/05/06
Dibenzo(a,h)Anthracene	895	ug/Kg dry	61.2	1	07/05/06
Fluoranthene	E 28800	ug/Kg dry	61.2	1	07/05/06
Fluorene	863	ug/Kg dry	61.2	1	07/05/06
Indeno(1,2,3-cd)Pyrene	E 2130	ug/Kg dry	61.2	1	07/05/06
Naphthalene	ND	ug/Kg dry	61.2	1	07/05/06
Phenanthrene	E 11800	ug/Kg dry	61.2	1	07/05/06
Pyrene	E 15200	ug/Kg dry	61.2	1	07/05/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	77 %		30-130
Surrogate: 2-Fluorobiphenyl	101 %		30-130
Surrogate: Nitrobenzene-d5	57 %		30-130
Surrogate: p-Terphenyl-d14	83 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2003  
Date Sampled: 06/22/06 08:55  
Percent Solids: 23  
Initial Volume: 21  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-13  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	104	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	104	1	07/03/06
Acenaphthene	ND	ug/Kg dry	104	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	104	1	07/03/06
Anthracene	ND	ug/Kg dry	104	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	104	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	104	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	104	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	104	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	104	1	07/03/06
Chrysene	ND	ug/Kg dry	104	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	104	1	07/03/06
Fluoranthene	ND	ug/Kg dry	104	1	07/03/06
Fluorene	ND	ug/Kg dry	104	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	104	1	07/03/06
Naphthalene	ND	ug/Kg dry	104	1	07/03/06
Phenanthrene	ND	ug/Kg dry	104	1	07/03/06
Pyrene	ND	ug/Kg dry	104	1	07/03/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	67 %		30-130
Surrogate: 2-Fluorobiphenyl	93 %		30-130
Surrogate: Nitrobenzene-d5	93 %		30-130
Surrogate: p-Terphenyl-d14	80 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1701  
Date Sampled: 06/22/06 09:15  
Percent Solids: 71  
Initial Volume: 20.1  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-14  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	35.0	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	35.0	1	07/03/06
Acenaphthene	ND	ug/Kg dry	35.0	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	35.0	1	07/03/06
Anthracene	ND	ug/Kg dry	35.0	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	35.0	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	35.0	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	35.0	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	35.0	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	35.0	1	07/03/06
Chrysene	ND	ug/Kg dry	35.0	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	35.0	1	07/03/06
Fluoranthene	ND	ug/Kg dry	35.0	1	07/03/06
Fluorene	ND	ug/Kg dry	35.0	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	35.0	1	07/03/06
Naphthalene	ND	ug/Kg dry	35.0	1	07/03/06
Phenanthrene	ND	ug/Kg dry	35.0	1	07/03/06
Pyrene	ND	ug/Kg dry	35.0	1	07/03/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	61 %		30-130
Surrogate: 2-Fluorobiphenyl	83 %		30-130
Surrogate: Nitrobenzene-d5	83 %		30-130
Surrogate: p-Terphenyl-d14	73 %		30-130



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1704  
Date Sampled: 06/22/06 09:30  
Percent Solids: 81  
Initial Volume: 20.2  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-15  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	30.6	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	30.6	1	07/03/06
Acenaphthene	ND	ug/Kg dry	30.6	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	30.6	1	07/03/06
Anthracene	ND	ug/Kg dry	30.6	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	30.6	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	30.6	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	30.6	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	30.6	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	30.6	1	07/03/06
Chrysene	ND	ug/Kg dry	30.6	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	30.6	1	07/03/06
Fluoranthene	ND	ug/Kg dry	30.6	1	07/03/06
Fluorene	ND	ug/Kg dry	30.6	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	30.6	1	07/03/06
Naphthalene	ND	ug/Kg dry	30.6	1	07/03/06
Phenanthrene	ND	ug/Kg dry	30.6	1	07/03/06
Pyrene	ND	ug/Kg dry	30.6	1	07/03/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	59 %		30-130
Surrogate: 2-Fluorobiphenyl	76 %		30-130
Surrogate: Nitrobenzene-d5	81 %		30-130
Surrogate: p-Terphenyl-d14	69 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1001  
Date Sampled: 06/22/06 09:45  
Percent Solids: 85  
Initial Volume: 19.3  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-16  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	30.5	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	30.5	1	07/03/06
Acenaphthene	ND	ug/Kg dry	30.5	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	30.5	1	07/03/06
Anthracene	ND	ug/Kg dry	30.5	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	30.5	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	30.5	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	30.5	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	30.5	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	30.5	1	07/03/06
Chrysene	ND	ug/Kg dry	30.5	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	30.5	1	07/03/06
Fluoranthene	ND	ug/Kg dry	30.5	1	07/03/06
Fluorene	ND	ug/Kg dry	30.5	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	30.5	1	07/03/06
Naphthalene	ND	ug/Kg dry	30.5	1	07/03/06
Phenanthrene	ND	ug/Kg dry	30.5	1	07/03/06
Pyrene	ND	ug/Kg dry	30.5	1	07/03/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	64 %		30-130
Surrogate: 2-Fluorobiphenyl	86 %		30-130
Surrogate: Nitrobenzene-d5	91 %		30-130
Surrogate: p-Terphenyl-d14	78 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1003  
Date Sampled: 06/22/06 09:55  
Percent Solids: 73  
Initial Volume: 19.9  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-17  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	34.4	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	34.4	1	07/03/06
Acenaphthene	ND	ug/Kg dry	34.4	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	34.4	1	07/03/06
Anthracene	ND	ug/Kg dry	34.4	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	34.4	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	34.4	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	34.4	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	34.4	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	34.4	1	07/03/06
Chrysene	ND	ug/Kg dry	34.4	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	34.4	1	07/03/06
Fluoranthene	ND	ug/Kg dry	34.4	1	07/03/06
Fluorene	ND	ug/Kg dry	34.4	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	34.4	1	07/03/06
Naphthalene	ND	ug/Kg dry	34.4	1	07/03/06
Phenanthrene	ND	ug/Kg dry	34.4	1	07/03/06
Pyrene	ND	ug/Kg dry	34.4	1	07/03/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	60 %		30-130
Surrogate: 2-Fluorobiphenyl	77 %		30-130
Surrogate: Nitrobenzene-d5	81 %		30-130
Surrogate: p-Terphenyl-d14	80 %		30-130

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
 Client Project ID: Providence Gorham Site  
 Client Sample ID: SED1101  
 Date Sampled: 06/22/06 10:15  
 Percent Solids: 15  
 Initial Volume: 20.4  
 Final Volume: 1  
 Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
 ESS Laboratory Sample ID: 0606373-18  
 Sample Matrix: Soil  
 Analyst: VSC  
 Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	163	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	163	1	07/03/06
Acenaphthene	ND	ug/Kg dry	163	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	163	1	07/03/06
Anthracene	ND	ug/Kg dry	163	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	163	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	163	1	07/03/06
<b>Benzo(b)fluoranthene</b>	<b>245</b>	ug/Kg dry	163	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	163	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	163	1	07/03/06
Chrysene	ND	ug/Kg dry	163	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	163	1	07/03/06
<b>Fluoranthene</b>	<b>327</b>	ug/Kg dry	163	1	07/03/06
Fluorene	ND	ug/Kg dry	163	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	163	1	07/03/06
Naphthalene	ND	ug/Kg dry	163	1	07/03/06
Phenanthrene	ND	ug/Kg dry	163	1	07/03/06
<b>Pyrene</b>	<b>258</b>	ug/Kg dry	163	1	07/03/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	64 %		30-130
Surrogate: 2-Fluorobiphenyl	85 %		30-130
Surrogate: Nitrobenzene-d5	93 %		30-130
Surrogate: p-Terphenyl-d14	74 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1103  
Date Sampled: 06/22/06 10:30  
Percent Solids: 75  
Initial Volume: 21  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-19  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	31.7	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	31.7	1	07/03/06
Acenaphthene	ND	ug/Kg dry	31.7	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	31.7	1	07/03/06
Anthracene	ND	ug/Kg dry	31.7	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	31.7	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	31.7	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	31.7	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	31.7	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	31.7	1	07/03/06
Chrysene	ND	ug/Kg dry	31.7	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	31.7	1	07/03/06
Fluoranthene	ND	ug/Kg dry	31.7	1	07/03/06
Fluorene	ND	ug/Kg dry	31.7	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	31.7	1	07/03/06
Naphthalene	ND	ug/Kg dry	31.7	1	07/03/06
Phenanthrene	ND	ug/Kg dry	31.7	1	07/03/06
Pyrene	ND	ug/Kg dry	31.7	1	07/03/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	68 %		30-130
Surrogate: 2-Fluorobiphenyl	90 %		30-130
Surrogate: Nitrobenzene-d5	94 %		30-130
Surrogate: p-Terphenyl-d14	80 %		30-130

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1201  
Date Sampled: 06/22/06 11:01  
Percent Solids: 45  
Initial Volume: 20.1  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-20  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>		<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene		ND	ug/Kg dry	55.3	1	07/03/06
2-Methylnaphthalene		ND	ug/Kg dry	55.3	1	07/03/06
Acenaphthene		56.4	ug/Kg dry	55.3	1	07/03/06
Acenaphthylene		ND	ug/Kg dry	55.3	1	07/03/06
Anthracene		276	ug/Kg dry	55.3	1	07/03/06
Benzo(a)anthracene	E	1030	ug/Kg dry	55.3	1	07/03/06
Benzo(a)pyrene		862	ug/Kg dry	55.3	1	07/03/06
Benzo(b)fluoranthene	E	1160	ug/Kg dry	55.3	1	07/03/06
Benzo(g,h,i)perylene		244	ug/Kg dry	55.3	1	07/03/06
Benzo(k)fluoranthene		636	ug/Kg dry	55.3	1	07/03/06
Chrysene	E	964	ug/Kg dry	55.3	1	07/03/06
Dibenzo(a,h)Anthracene		80.7	ug/Kg dry	55.3	1	07/03/06
Fluoranthene	E	2220	ug/Kg dry	55.3	1	07/03/06
Fluorene		107	ug/Kg dry	55.3	1	07/03/06
Indeno(1,2,3-cd)Pyrene		259	ug/Kg dry	55.3	1	07/03/06
Naphthalene		ND	ug/Kg dry	55.3	1	07/03/06
Phenanthrene	E	1490	ug/Kg dry	55.3	1	07/03/06
Pyrene	E	1480	ug/Kg dry	55.3	1	07/03/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	73 %		30-130
Surrogate: 2-Fluorobiphenyl	101 %		30-130
Surrogate: Nitrobenzene-d5	105 %		30-130
Surrogate: p-Terphenyl-d14	80 %		30-130

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JUL 27 2006

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1201  
Date Sampled: 06/22/06 11:01  
Percent Solids: 45  
Initial Volume: 20.1  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-20RE1  
Sample Matrix: Soil  
Analyst: VSC  
Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	276	5	07/05/06
2-Methylnaphthalene	ND	ug/Kg dry	276	5	07/05/06
Acenaphthene	ND	ug/Kg dry	276	5	07/05/06
Acenaphthylene	ND	ug/Kg dry	276	5	07/05/06
Anthracene	ND	ug/Kg dry	276	5	07/05/06
<b>Benzo(a)anthracene</b>	<b>685</b>	ug/Kg dry	276	5	07/05/06
<b>Benzo(a)pyrene</b>	<b>647</b>	ug/Kg dry	276	5	07/05/06
<b>Benzo(b)fluoranthene</b>	<b>1410</b>	ug/Kg dry	276	5	07/05/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	276	5	07/05/06
<b>Benzo(k)fluoranthene</b>	<b>448</b>	ug/Kg dry	276	5	07/05/06
<b>Chrysene</b>	<b>625</b>	ug/Kg dry	276	5	07/05/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	276	5	07/05/06
<b>Fluoranthene</b>	<b>1920</b>	ug/Kg dry	276	5	07/05/06
Fluorene	ND	ug/Kg dry	276	5	07/05/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	276	5	07/05/06
Naphthalene	ND	ug/Kg dry	276	5	07/05/06
<b>Phenanthrene</b>	<b>1070</b>	ug/Kg dry	276	5	07/05/06
<b>Pyrene</b>	<b>1010</b>	ug/Kg dry	276	5	07/05/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	67 %		30-130
Surrogate: 2-Fluorobiphenyl	77 %		30-130
Surrogate: Nitrobenzene-d5	84 %		30-130
Surrogate: p-Terphenyl-d14	59 %		30-130

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JUL 21 2006

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED1203

Date Sampled: 06/22/06 11:15

Percent Solids: 76

Initial Volume: 20.3

Final Volume: 1

Extraction Method: 3541

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-21

Sample Matrix: Soil

Analyst: VSC

Prepared: 06/26/06

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
1-Methylnaphthalene	ND	ug/Kg dry	32.4	1	07/03/06
2-Methylnaphthalene	ND	ug/Kg dry	32.4	1	07/03/06
Acenaphthene	ND	ug/Kg dry	32.4	1	07/03/06
Acenaphthylene	ND	ug/Kg dry	32.4	1	07/03/06
Anthracene	ND	ug/Kg dry	32.4	1	07/03/06
Benzo(a)anthracene	ND	ug/Kg dry	32.4	1	07/03/06
Benzo(a)pyrene	ND	ug/Kg dry	32.4	1	07/03/06
Benzo(b)fluoranthene	ND	ug/Kg dry	32.4	1	07/03/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	32.4	1	07/03/06
Benzo(k)fluoranthene	ND	ug/Kg dry	32.4	1	07/03/06
Chrysene	ND	ug/Kg dry	32.4	1	07/03/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	32.4	1	07/03/06
Fluoranthene	ND	ug/Kg dry	32.4	1	07/03/06
Fluorene	ND	ug/Kg dry	32.4	1	07/03/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	32.4	1	07/03/06
Naphthalene	ND	ug/Kg dry	32.4	1	07/03/06
Phenanthrene	ND	ug/Kg dry	32.4	1	07/03/06
Pyrene	ND	ug/Kg dry	32.4	1	07/03/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: 1,2-Dichlorobenzene-d4	62 %		30-130
Surrogate: 2-Fluorobiphenyl	80 %		30-130
Surrogate: Nitrobenzene-d5	85 %		30-130
Surrogate: p-Terphenyl-d14	80 %		30-130



# Semi-Volatile Organics Quality Control Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>8270C Polynuclear Aromatic Hydrocarbons</b>										
<b>Batch BF62605 - 3541</b>										
2-Methylnaphthalene	4890	638	ug/Kg dry	6380	ND	77	40-140	4	30	
Acenaphthene	5110	638	ug/Kg dry	6380	ND	80	40-140	1	30	
Acenaphthylene	4900	638	ug/Kg dry	6380	ND	77	40-140	1	30	
Anthracene	5530	638	ug/Kg dry	6380	ND	87	40-140	2	30	
Benzo(a)anthracene	5390	638	ug/Kg dry	6380	ND	84	40-140	2	30	
Benzo(a)pyrene	5670	638	ug/Kg dry	6380	ND	89	40-140	0	30	
Benzo(b)fluoranthene	4790	638	ug/Kg dry	6380	ND	75	40-140	13	30	
Benzo(g,h,i)perylene	4530	638	ug/Kg dry	6380	ND	71	40-140	1	30	
Benzo(k)fluoranthene	5750	638	ug/Kg dry	6380	ND	90	40-140	12	30	
Chrysene	5290	638	ug/Kg dry	6380	ND	83	40-140	4	30	
Dibenzo(a,h)Anthracene	5420	638	ug/Kg dry	6380	ND	85	40-140	5	30	
Fluoranthene	5550	638	ug/Kg dry	6380	ND	87	40-140	5	30	
Fluorene	5210	638	ug/Kg dry	6380	ND	82	40-140	0	30	
Indeno(1,2,3-cd)Pyrene	5080	638	ug/Kg dry	6380	ND	80	40-140	3	30	
Naphthalene	5110	638	ug/Kg dry	6380	ND	80	40-140	1	30	
Phenanthrene	5200	638	ug/Kg dry	6380	ND	82	40-140	2	30	
Pyrene	4620	638	ug/Kg dry	6380	ND	72	40-140	9	30	

Surrogate: 1,2-Dichlorobenzene-d4	5020		ug/Kg dry	6380		79	30-130			
Surrogate: 2-Fluorobiphenyl	5630		ug/Kg dry	6380		88	30-130			
Surrogate: Nitrobenzene-d5	5640		ug/Kg dry	6380		88	30-130			
Surrogate: p-Terphenyl-d14	4860		ug/Kg dry	6380		76	30-130			

### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

#### Batch BG60519 - 3541

#### Blank

1-Methylnaphthalene	ND	25.0	ug/Kg wet							
2-Methylnaphthalene	ND	25.0	ug/Kg wet							
Acenaphthene	ND	25.0	ug/Kg wet							
Acenaphthylene	ND	25.0	ug/Kg wet							
Anthracene	ND	25.0	ug/Kg wet							
Benzo(a)anthracene	ND	25.0	ug/Kg wet							
Benzo(a)pyrene	ND	25.0	ug/Kg wet							
Benzo(b)fluoranthene	ND	25.0	ug/Kg wet							
Benzo(g,h,i)perylene	ND	25.0	ug/Kg wet							
Benzo(k)fluoranthene	ND	25.0	ug/Kg wet							
Chrysene	ND	25.0	ug/Kg wet							
Dibenzo(a,h)Anthracene	ND	25.0	ug/Kg wet							
Fluoranthene	ND	25.0	ug/Kg wet							
Fluorene	ND	25.0	ug/Kg wet							
Indeno(1,2,3-cd)Pyrene	ND	25.0	ug/Kg wet							
Naphthalene	ND	25.0	ug/Kg wet							
Phenanthrene	ND	25.0	ug/Kg wet							
Pyrene	ND	25.0	ug/Kg wet							

Surrogate: 1,2-Dichlorobenzene-d4	4030		ug/Kg wet	5000		81	30-130			
Surrogate: 2-Fluorobiphenyl	5040		ug/Kg wet	642 5000		101	30-130			

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8270C(SIM) Polynuclear Aromatic Hydrocarbons

Batch **BG60519 - 3541**

Surrogate: Nitrobenzene-d5	5460		ug/Kg wet	5000		109	30-130			
Surrogate: p-Terphenyl-d14	5020		ug/Kg wet	5000		100	30-130			

#### LCS

2-Methylnaphthalene	103	25.0	ug/Kg wet	125		82	40-140			
Acenaphthene	108	25.0	ug/Kg wet	125		86	40-140			
Acenaphthylene	103	25.0	ug/Kg wet	125		82	40-140			
Anthracene	111	25.0	ug/Kg wet	125		89	40-140			
Benzo(a)anthracene	110	25.0	ug/Kg wet	125		88	40-140			
Benzo(a)pyrene	108	25.0	ug/Kg wet	125		86	40-140			
Benzo(b)fluoranthene	112	25.0	ug/Kg wet	125		90	40-140			
Benzo(g,h,i)perylene	82.0	25.0	ug/Kg wet	125		66	40-140			
Benzo(k)fluoranthene	127	25.0	ug/Kg wet	125		102	40-140			
Chrysene	124	25.0	ug/Kg wet	125		99	40-140			
Dibenzo(a,h)Anthracene	77.0	25.0	ug/Kg wet	125		62	40-140			
Fluoranthene	113	25.0	ug/Kg wet	125		90	40-140			
Fluorene	107	25.0	ug/Kg wet	125		86	40-140			
Indeno(1,2,3-cd)Pyrene	78.5	25.0	ug/Kg wet	125		63	40-140			
Naphthalene	102	25.0	ug/Kg wet	125		82	40-140			
Phenanthrene	109	25.0	ug/Kg wet	125		87	40-140			
Pyrene	95.5	25.0	ug/Kg wet	125		76	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	112		ug/Kg wet	125		90	30-130			
Surrogate: 2-Fluorobiphenyl	129		ug/Kg wet	125		103	30-130			
Surrogate: Nitrobenzene-d5	128		ug/Kg wet	125		102	30-130			
Surrogate: p-Terphenyl-d14	108		ug/Kg wet	125		86	30-130			

#### LCS Dup

2-Methylnaphthalene	114	25.0	ug/Kg wet	125		91	40-140	10	30	
Acenaphthene	116	25.0	ug/Kg wet	125		93	40-140	8	30	
Acenaphthylene	112	25.0	ug/Kg wet	125		90	40-140	9	30	
Anthracene	120	25.0	ug/Kg wet	125		96	40-140	8	30	
Benzo(a)anthracene	131	25.0	ug/Kg wet	125		105	40-140	18	30	
Benzo(a)pyrene	118	25.0	ug/Kg wet	125		94	40-140	9	30	
Benzo(b)fluoranthene	125	25.0	ug/Kg wet	125		100	40-140	11	30	
Benzo(g,h,i)perylene	92.0	25.0	ug/Kg wet	125		74	40-140	11	30	
Benzo(k)fluoranthene	130	25.0	ug/Kg wet	125		104	40-140	2	30	
Chrysene	132	25.0	ug/Kg wet	125		106	40-140	7	30	
Dibenzo(a,h)Anthracene	86.0	25.0	ug/Kg wet	125		69	40-140	11	30	
Fluoranthene	121	25.0	ug/Kg wet	125		97	40-140	7	30	
Fluorene	122	25.0	ug/Kg wet	125		98	40-140	13	30	
Indeno(1,2,3-cd)Pyrene	88.5	25.0	ug/Kg wet	125		71	40-140	12	30	
Naphthalene	104	25.0	ug/Kg wet	125		83	40-140	1	30	
Phenanthrene	122	25.0	ug/Kg wet	125		98	40-140	12	30	
Pyrene	118	25.0	ug/Kg wet	125		94	40-140	21	30	

Surrogate: 1,2-Dichlorobenzene-d4	120		ug/Kg wet	125		96	30-130			
Surrogate: 2-Fluorobiphenyl	130		ug/Kg wet	125		104	30-130			
Surrogate: Nitrobenzene-d5	134		ug/Kg wet	125		107	30-130			

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
---------	--------	-----	-------	-------------	---------------	------	-------------	-----	-----------	-----------

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Batch **BG60519 - 3541**

Surrogate: <i>p</i> -Terphenyl-d14	122		ug/Kg wet	125		98	30-130			
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# Semi-Volatile Organics Calibration Data

ESS LABORATORY  
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
7/1/06	4	SV2 35	06006221-04	✓ PAMADY	50X	
	5	SV2 36	BF60269-CAL4	SVUKH		
	6	SV2 37	-CAL1			
	7	SV2 38	-CAL2			
	8	SV2 39	-CAL3			
	9	SV2 40	-CAL5			
	10	SV2 41	-CAL6			
	11	SV2 42	-CAL7			
	12	SV2 43	-CAL8			
7/1/06	13	SV2 44	-SCV1	✓		
7/2/06	1	SV2 45	JLS 713106 BPG60004-TUN1	DETPP	✓ 6F26111	JCS
	2	SV2 46	CCV1	PAMADZY	X	
	3	SV2 47	BPG60004	CAL1 PAMADZY	✓ 6E22059	
	4	SV2 48		CAL2	✓ 58	
	5	SV2 49		CAL3	✓ 57	
	6	SV2 50		CAL4	✓ 56	
	7	SV2 51		CAL5	✓ 54	
	8	SV2 52		CAL6	✓ 53	
	9	SV2 53		CAL7	✓ 52	
7/2/06	10	SV2 54	BPG60004-SCV1	PAMADZ	✓ 6E22060	JCS
7/3/06	1	SV2 55	BPG60005 TUN1	DETPP	✓	JCS
	2	SV2 56	CCV1	PAMADZ		
	3	SV2 57	BPG60005 CCV1		✓	
	4	SV2 58	SBF62605-BIK1		✓	
	5	SV2 59	-BS1		✓	
	6	SV2 60	-BSD1		✓	
	7	SV2 61	0600373-02		✓	
	8	SV2 62	-04	✓	✓	
7/3/06	8	SV2 63	-06	✓ PAMADZ		JCS

Control Number 60.0019-0601A

Page \_\_\_\_\_

## ANALYSIS SEQUENCE

BPG0004

Instrument: SVOAMS2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0004-CAL1	QC		1		6E22059	6D26044	
BPG0004-CAL2	QC		2		6E22058	6D26044	
BPG0004-CAL3	QC		3		6E22057	6D26044	
BPG0004-CAL4	QC		4		6E22056	6D26044	
BPG0004-CAL5	QC		5		6E22054	6D26044	
BPG0004-CAL6	QC		6		6E22053	6D26044	
BPG0004-CAL7	QC		7		6E22052	6D26044	
BPG0004-SCV1	QC		8		6E22060	6D26044	
BPG0004-TUN1	QC		9		6F26111		

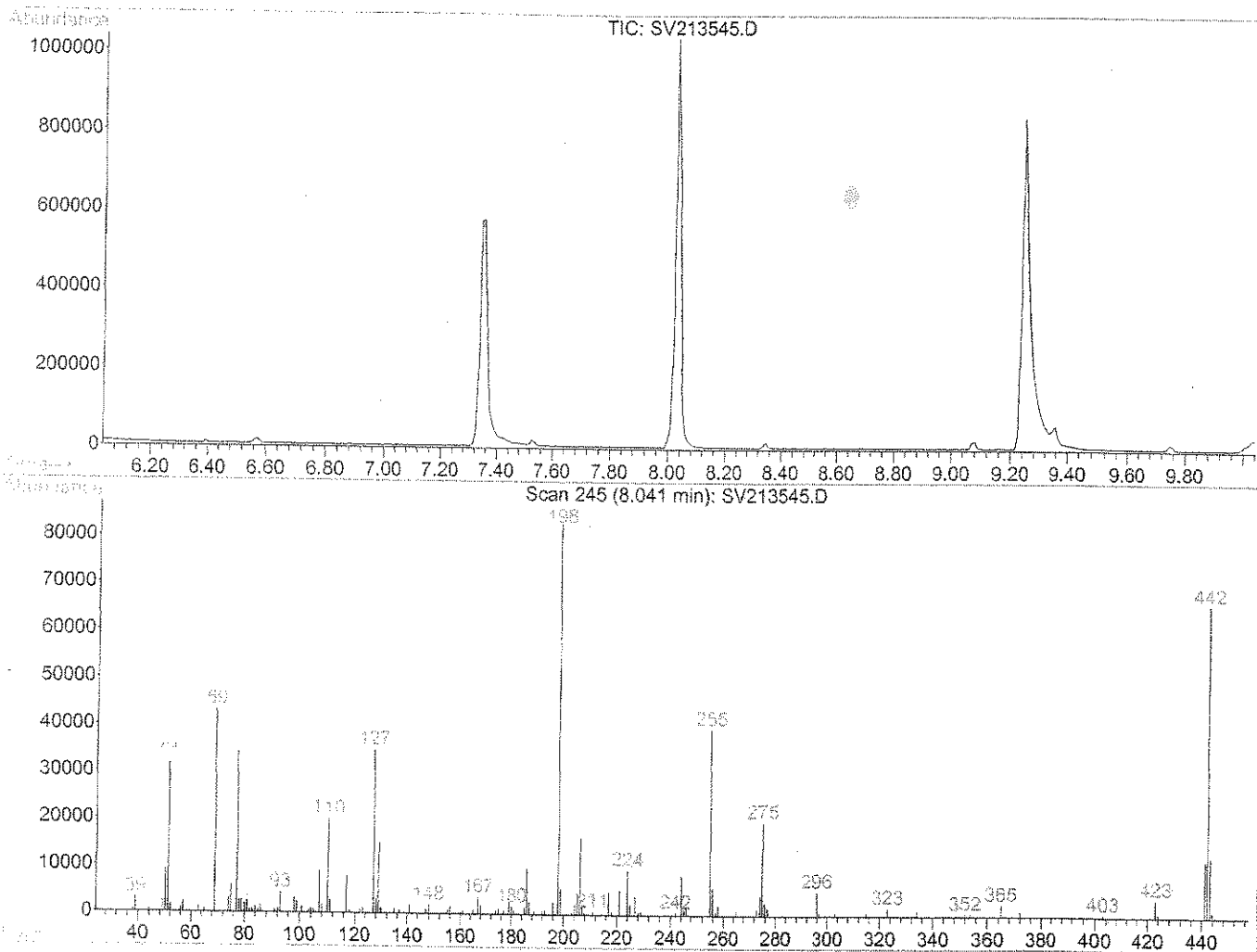
Samples Loaded By

Date

647  
Data Processed By

Date

Data File : Q:\SVOA\MS2\_ME\ME0706\ME070206\SV213545.D Vial: 1  
 Acq On : 2 Jul 2006 10:49 am Operator: JLS  
 Sample : BPG0004-TUN1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Method : C:\HPCHEM\1\METHODS\PAH2EC.M (RTE Integrator)  
 Title : LL PAH ELEMENT ID 0607033



Spectrum Information: Scan 245

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	38.2	31712	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	52.0	43144	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	41.9	34784	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	82936	PASS
199	198	5	9	6.4	5303	PASS
275	198	10	30	24.0	19920	PASS
365	198	1	100	3.1	2558	PASS
441	443	0.01	100	94.2	11872	PASS
442	198	40	100	79.9	66248	PASS
443	442	17	23	19.0	12609	PASS



Response Factor Report GC/MS 2

Method : C:\HPCHEM\1\METHODS\PAH2DZ.M (RTE Integrator)  
 Title : LL PAH ELEMENT ID 0606036  
 Last Update : Mon Jul 03 06:13:54 2006  
 Response via : Initial Calibration

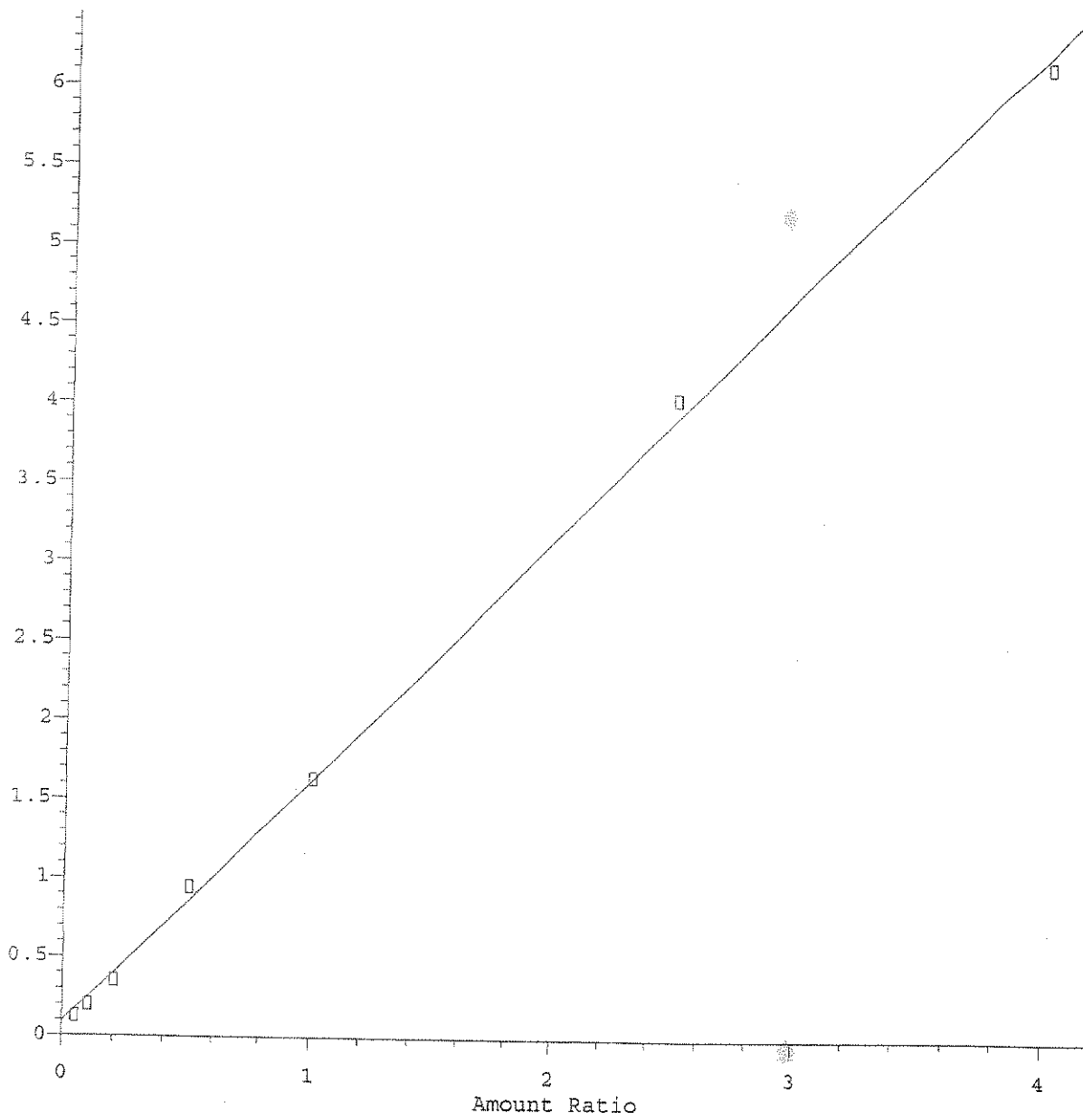
Calibration Files

0.2 =SV213547.D 0.4 =SV213548.D 1.0 =SV213550.D  
 2.0 =SV213551.D 5.0 =SV213552.D 8.0 =SV213553.D

Compound	0.2	0.4	1.0	2.0	5.0	8.0	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	-----ISTD-----							
2) S 1,2 Dichlorobenzene	0.865	0.807	1.007	0.849	0.832	0.792	0.883	10.80
3) Naphthalene-d8	-----ISTD-----							
4) S Nitrobenzene-d5 (SU	0.395	0.363	0.383	0.355	0.370	0.368	0.381	7.19
5) Naphthalene	1.122	1.011	1.042	0.980	0.993	0.951	1.065	13.05
6) 2-Methylnaphthalene	0.618	0.567	0.634	0.586	0.607	0.581	0.616	8.27
7) 1-Methylnaphthalene	0.645	0.604	0.648	0.586	0.599	0.571	0.631	10.25
8) Acenaphthene-d10	-----ISTD-----							
9) S 2-Fluorobiphenyl (S	1.177	1.252	1.346	1.208	1.225	1.188	1.244	5.13
10) Acenaphthylene	1.765	1.766	1.904	1.772	1.864	1.802	1.863	7.75
11) C Acenaphthene	1.213	1.126	1.219	1.111	1.146	1.112	1.191	8.85#
12) Fluorene	1.157	1.113	1.184	1.119	1.191	1.134	1.182	7.73
13) Phenanthrene-d10	-----ISTD-----							
14) S 2,4,6-Tribromopheno	0.162	0.078	0.121	0.071	0.068	0.084	0.117	53.04
15) C Pentachlorophenol	0.025	0.019	0.053	0.036	0.046	0.064	0.043#	39.62#
16) Phenanthrene	0.932	0.892	0.927	0.887	0.955	0.926	0.942	6.67
17) Anthracene	1.330	1.219	1.298	1.181	1.198	1.149	1.264	8.98
18) C Fluoranthene	0.956	0.921	0.911	0.851	0.880	0.858	0.933	11.20#
19) Chrysene-d12	-----ISTD-----							
20) Pyrene	1.768	1.514	1.805	1.670	1.632	1.614	1.735	11.83
21) S Terphenyl-d14 (SURR	0.900	0.790	0.899	0.828	0.804	0.764	0.865	12.16
22) Benzo(a)anthracene	0.837	0.816	0.858	0.888	1.033	0.997	0.908	9.03
23) Chrysene	1.998	1.768	1.897	1.635	1.618	1.536	1.854	18.23
24) Perylene-d12	-----ISTD-----							
25) Benzo(b)fluoranthen	0.483	0.436	0.640	0.647	0.697	0.732	1.121	121.96
26) Benzo(k)fluoranthen	3.072	2.527	2.950	2.360	2.295	2.180	2.799	25.23
27) C Benzo(a)pyrene	1.641	1.296	1.373	1.264	1.327	1.305	1.467	19.80#
28) Indeno(1,2,3-cd)pyr	1.754	1.205	1.001	0.849	0.940	0.932	1.347	51.28
29) Dibenzo(a,h)anthrac	1.331	0.974	0.760	0.660	0.737	0.735	1.069	54.52
30) Benzo(g,h,i)perylene	1.405	0.995	0.815	0.714	0.757	0.737	1.144	59.39

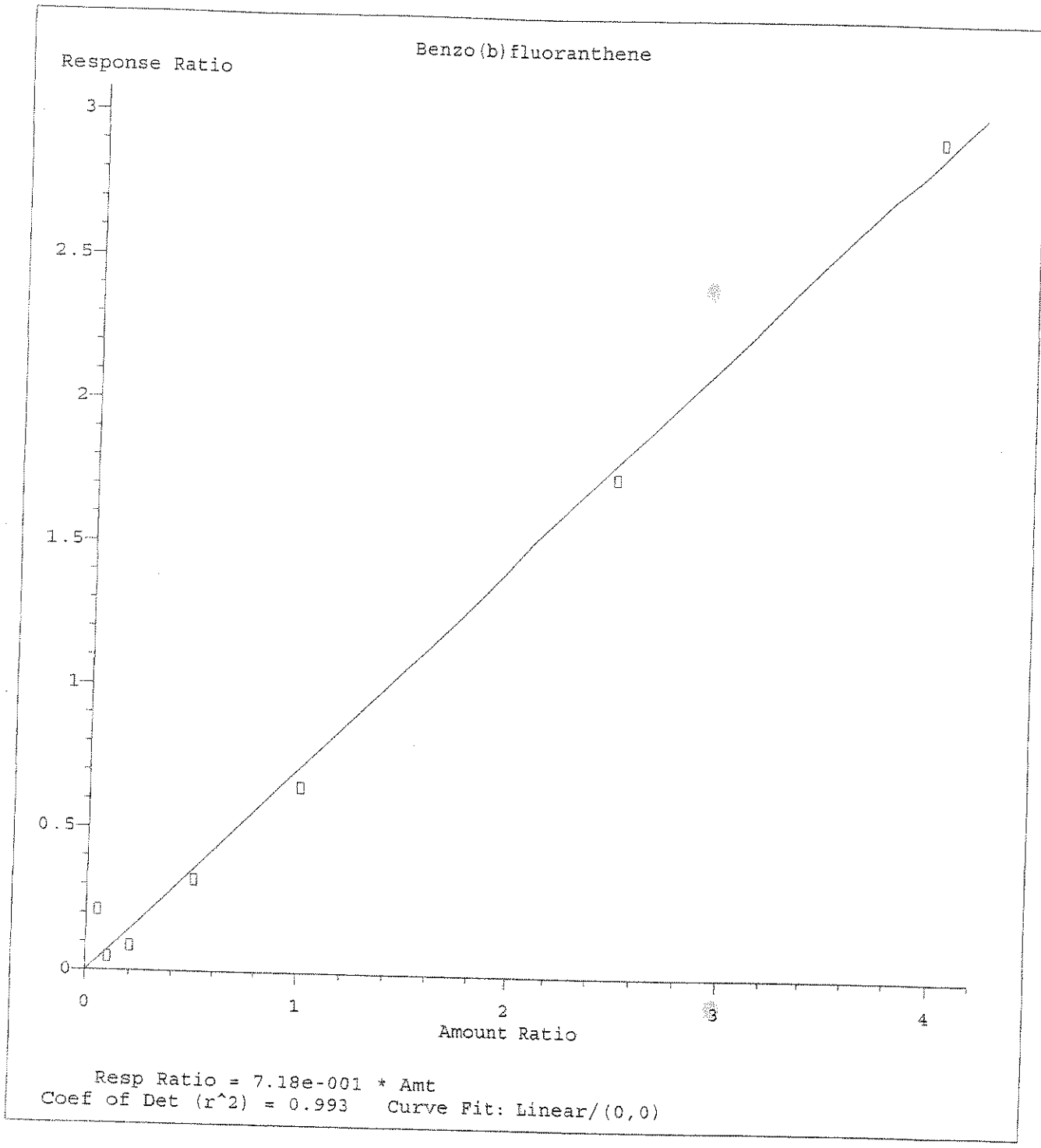
Response Ratio

Chrysene

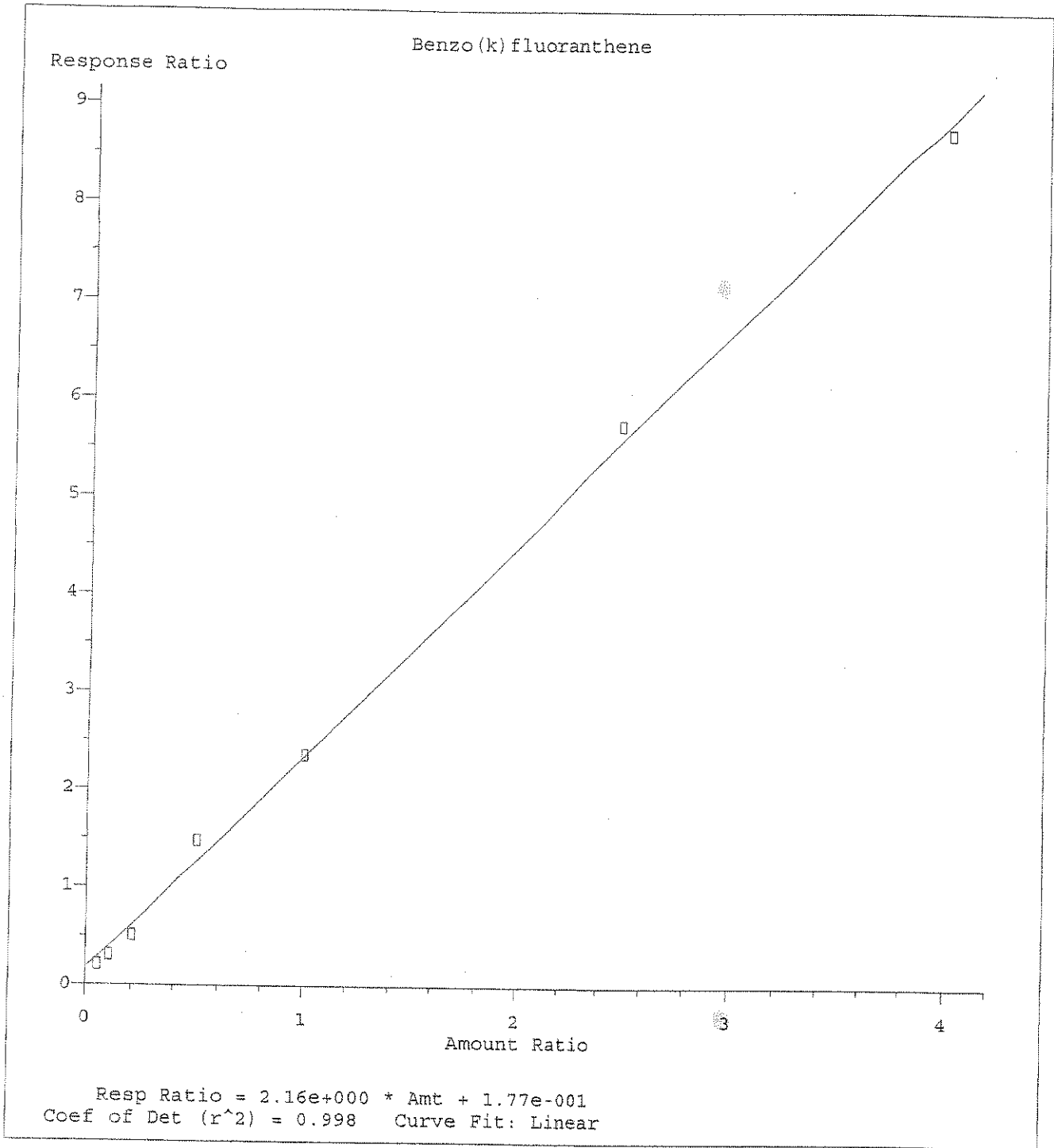


Resp Ratio = 1.53e+000 \* Amt + 9.21e-002  
Coef of Det (r<sup>2</sup>) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\PAH2DZ.M  
Calibration Table Last Updated: Mon Jul 03 06:13:54 2006



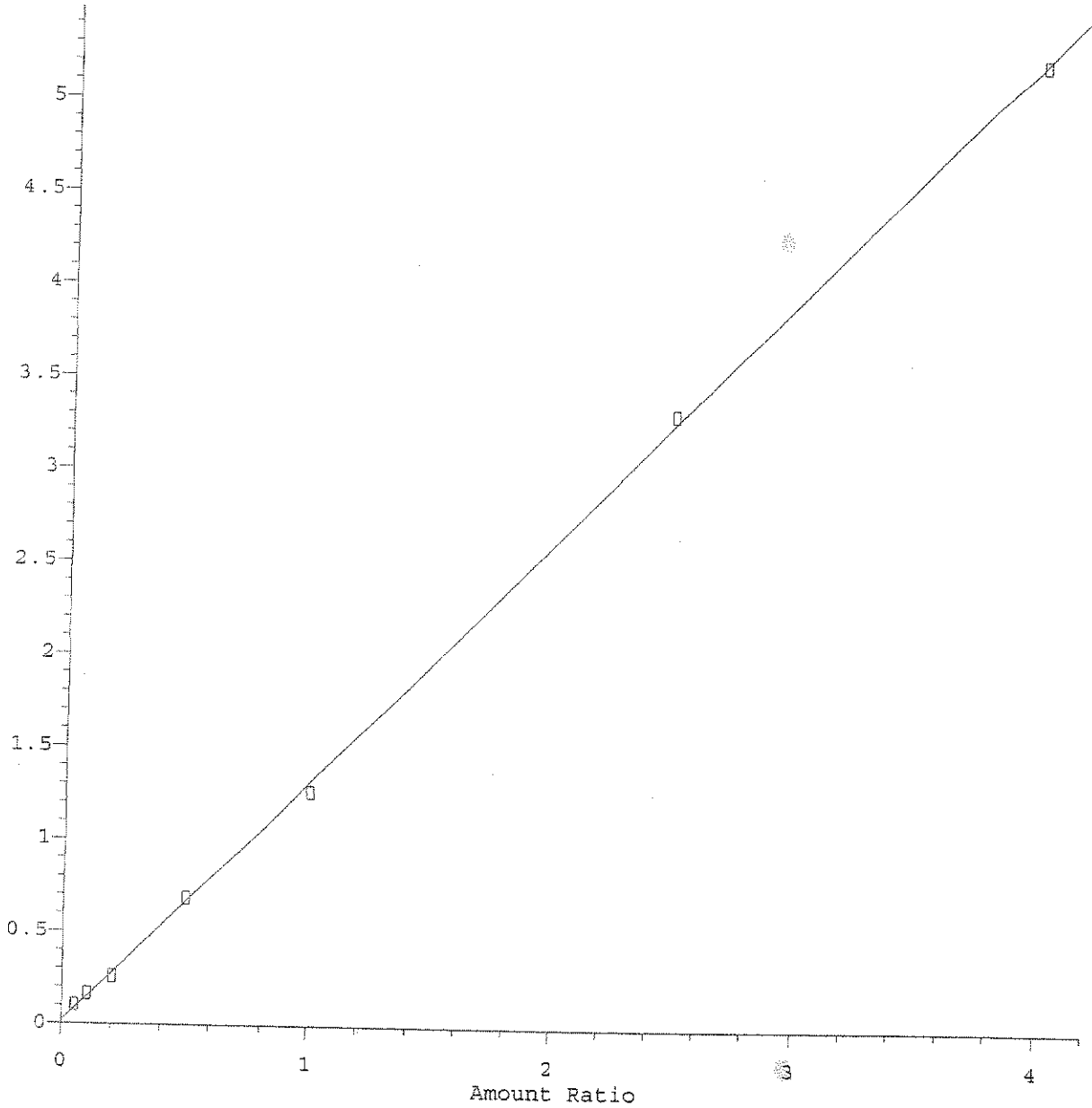
Method Name: C:\HPCHEM\1\METHODS\PAH2DZ.M  
Calibration Table Last Updated: Mon Jul 03 06:13:54 2006



Method Name: C:\HPCHEM\1\METHODS\PAH2DZ.M  
Calibration Table Last Updated: Mon Jul 03 06:13:54 2006

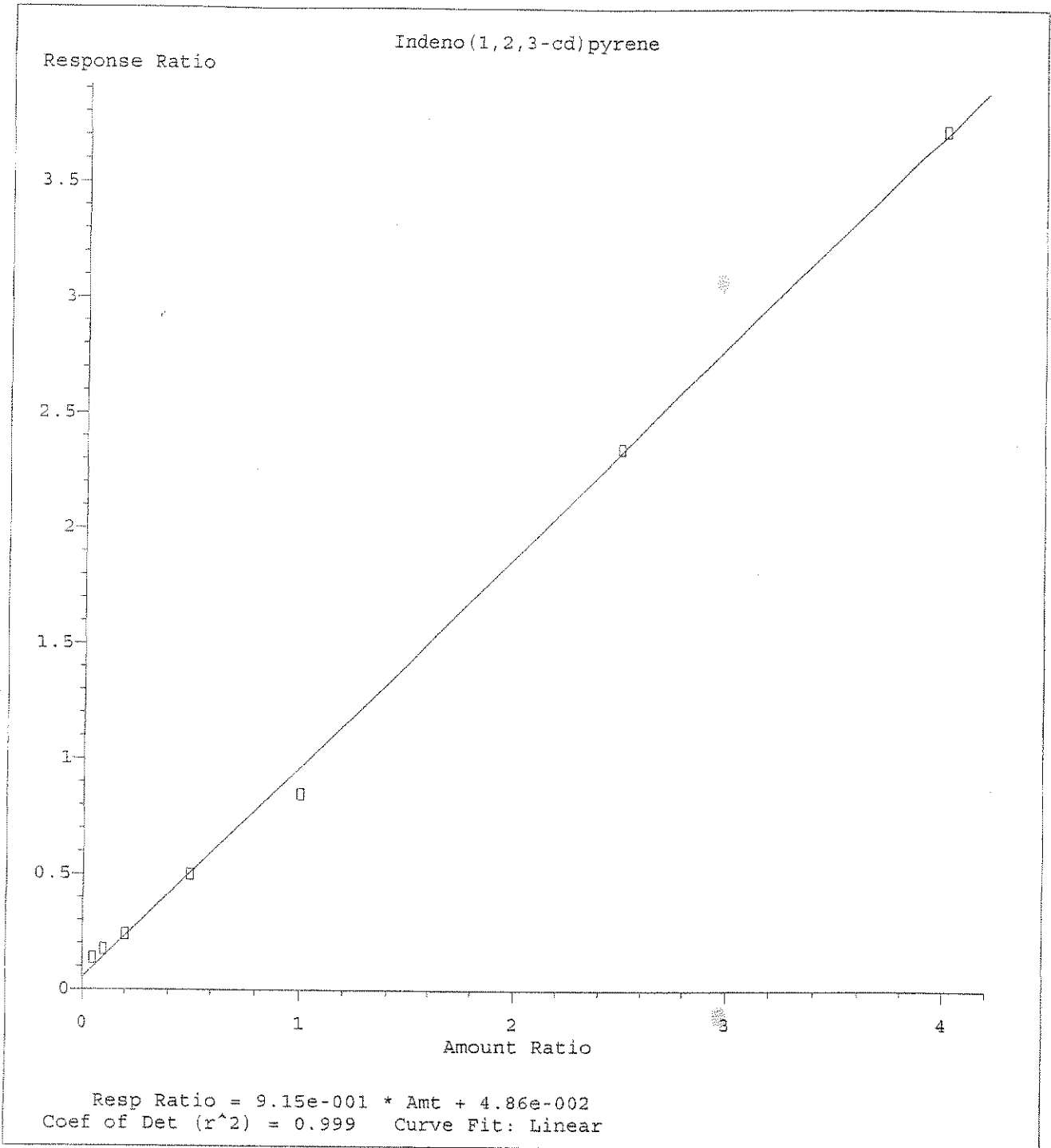
Response Ratio

Benzo(a)pyrene



Resp Ratio = 1.30e+000 \* Amt + 1.87e-002  
Coef of Det (r^2) = 1.000 Curve Fit: Linear

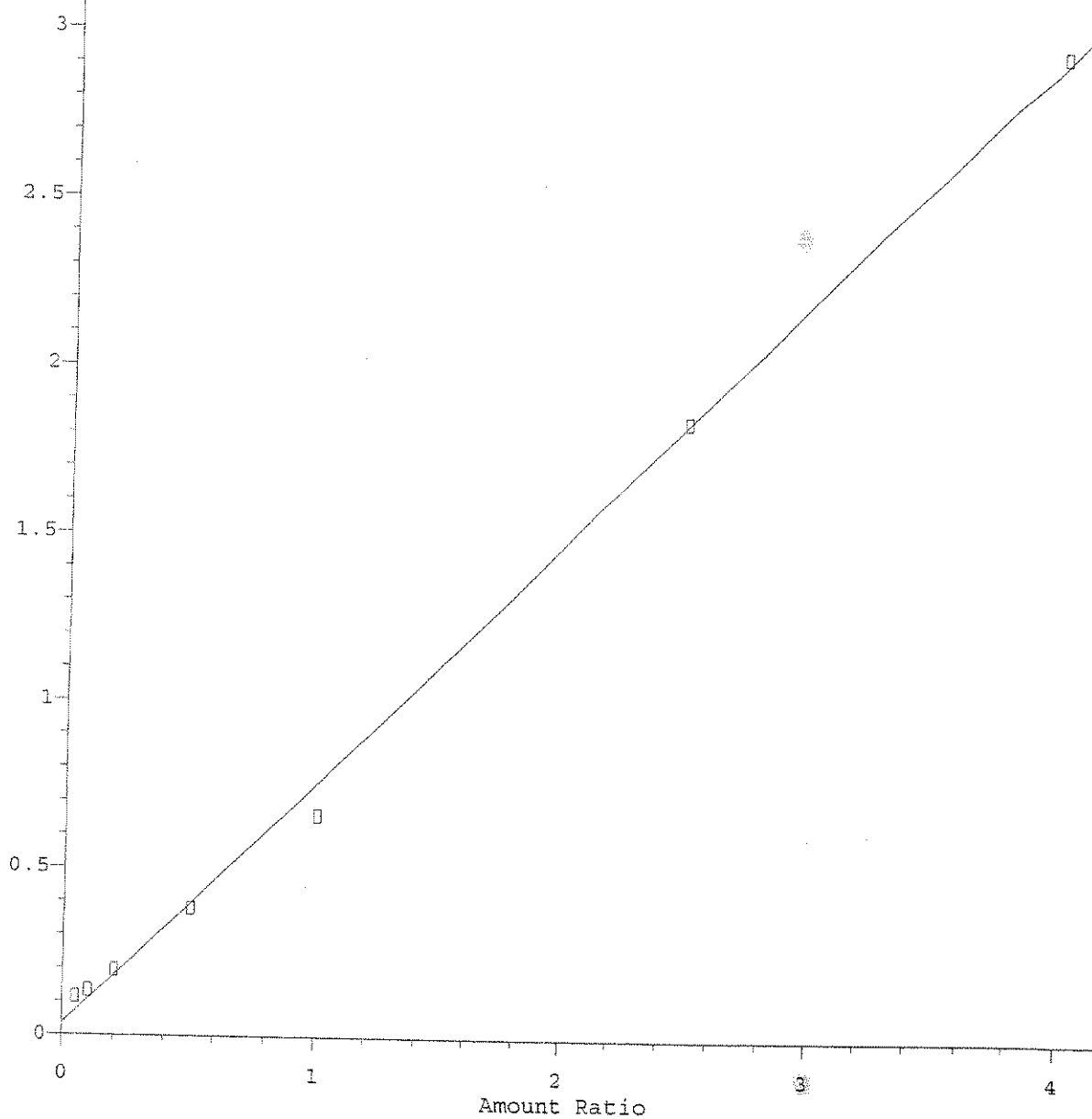
Method Name: C:\HPCHEM\1\METHODS\PAH2DZ.M  
Calibration Table Last Updated: Mon Jul 03 06:13:54 2006



Method Name: C:\HPCHEM\1\METHODS\PAH2DZ.M  
Calibration Table Last Updated: Mon Jul 03 06:13:54 2006

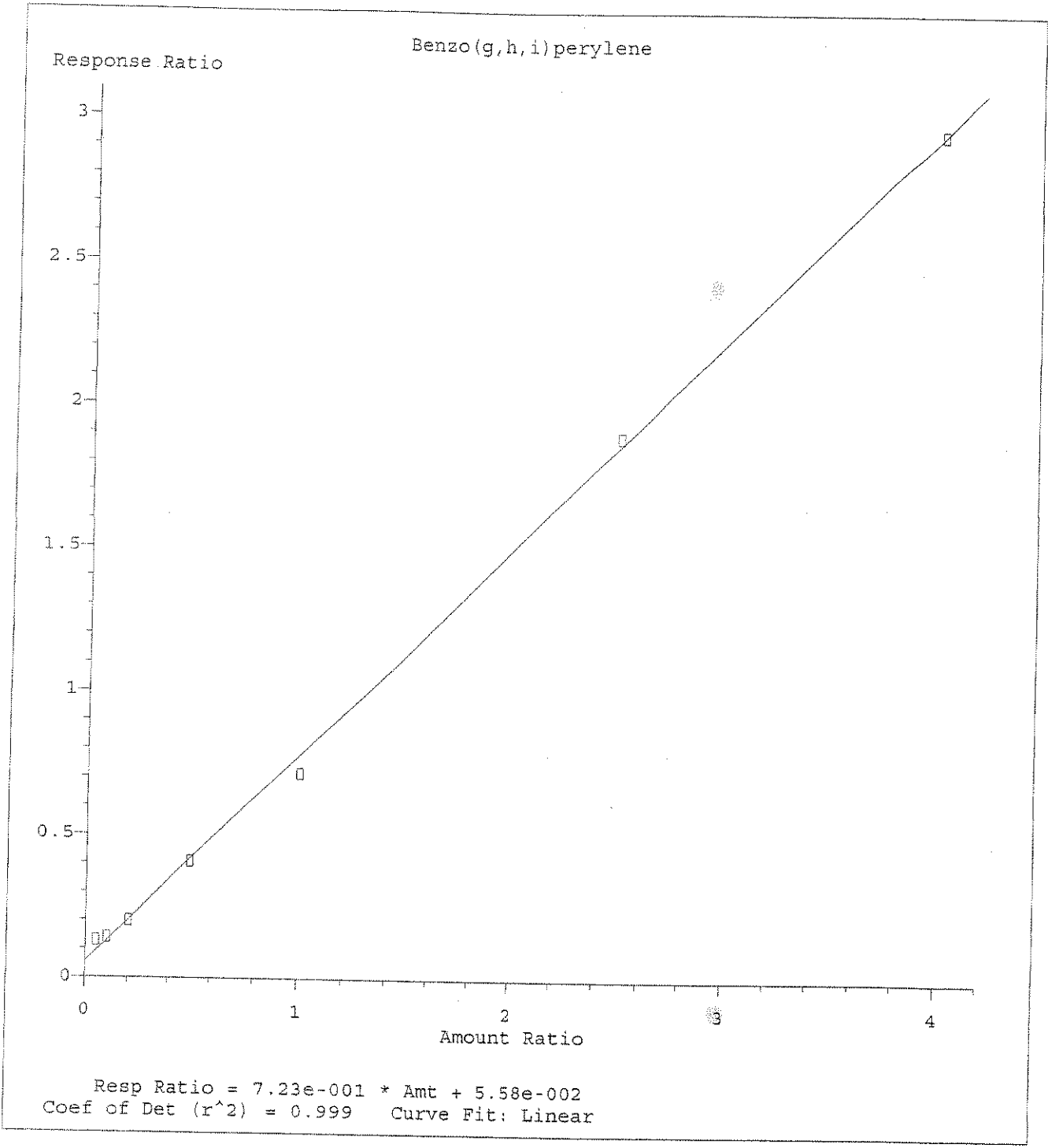
Response Ratio

Dibenzo(a,h)anthracene



Resp Ratio =  $7.22e-001 * Amt + 3.46e-002$   
Coef of Det ( $r^2$ ) = 0.998 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\PAH2DZ.M  
Calibration Table Last Updated: Mon Jul 03 06:13:54 2006

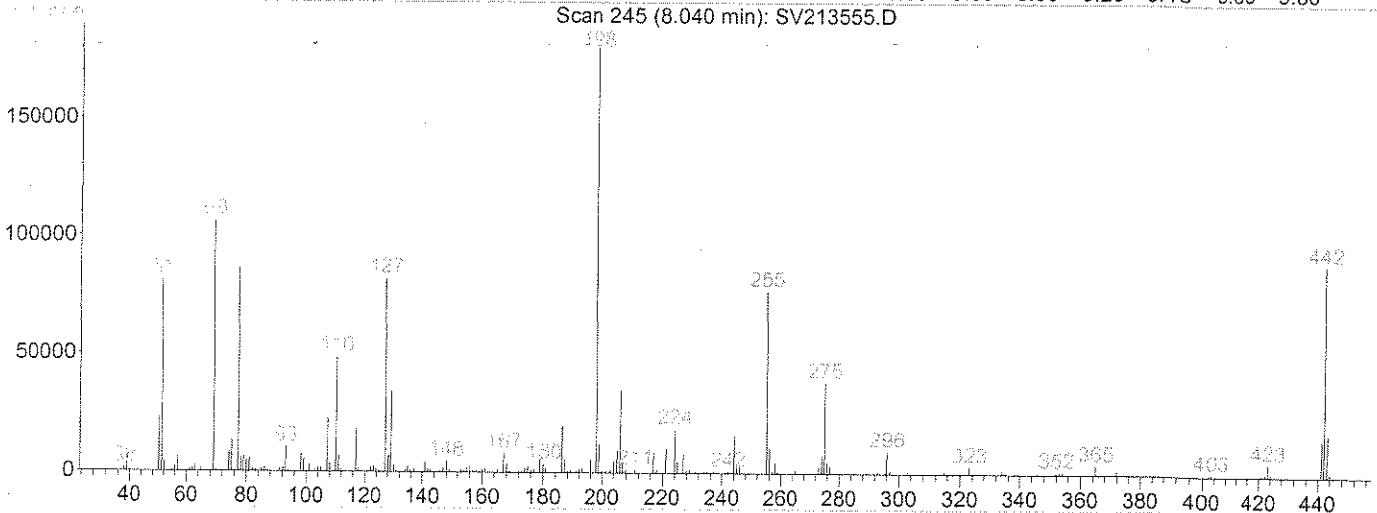
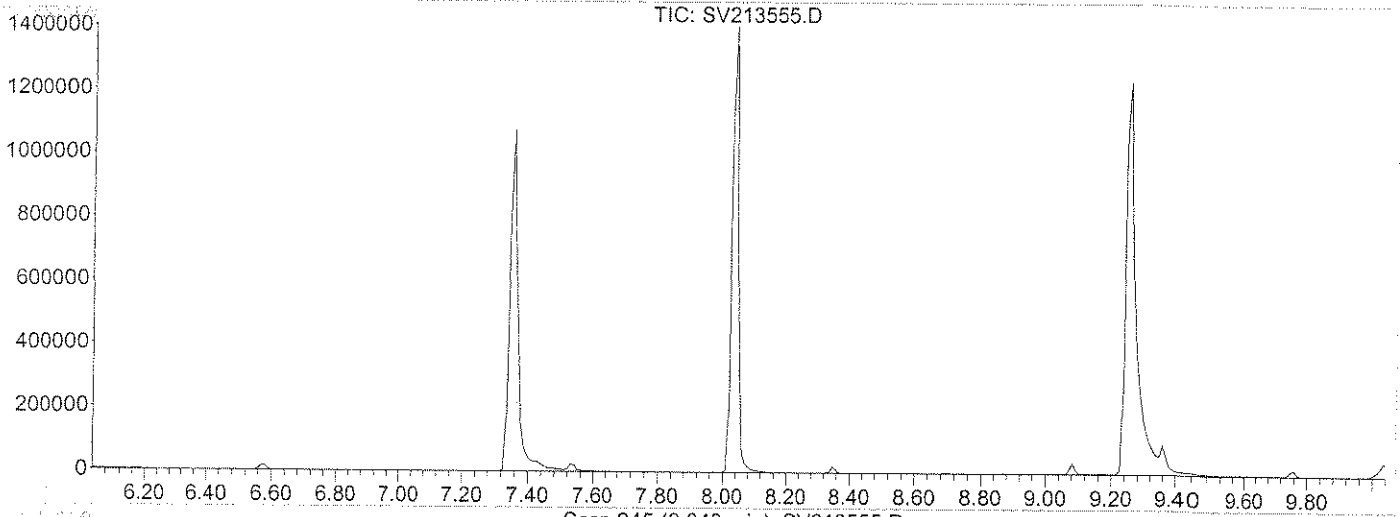


Method Name: C:\HPCHEM\1\METHODS\PAH2DZ.M  
Calibration Table Last Updated: Mon Jul 03 06:13:54 2006



DFTPP

Data File : Q:\SVOA\MS2\_ME\ME0706\ME070306\SV213555.D Vial: 1  
 Acq On : 3 Jul 2006 6:21 am Operator: JLS  
 Sample : BPG0005-TUN1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Method : C:\HPCHEM\1\METHODS\DFTPP.M (RTE Integrator)  
 Title : 8270



Spectrum Information: Scan 245

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.1	81328	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	58.9	106256	PASS
70	69	0.00	2	0.5	514	PASS
127	198	40	60	45.5	82112	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	180352	PASS
199	198	5	9	6.7	12113	PASS
275	198	10	30	21.3	38368	PASS
365	198	1	100	2.2	4053	PASS
441	443	0.01	100	87.5	15162	PASS
442	198	40	100	49.5	89304	PASS
443	442	17	23	19.4	17328	PASS

## ANALYSIS SEQUENCE

BPG0005

Instrument: SVOAMS2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0005-TUN1	QC		1		6F26111		
BPG0005-CCV1	QC		2		6F28045	6F13054	
0606373-02	/OC: 8270/3541 ppb PAH SI	B	3			6F13054	MACTEC Engineering & Consulting, Inc
0606373-04	/OC: 8270/3541 ppb PAH SI	B	4			6F13054	MACTEC Engineering & Consulting, Inc
0606373-06	/OC: 8270/3541 ppb PAH SI	B	5			6F13054	MACTEC Engineering & Consulting, Inc
0606373-07	/OC: 8270/3541 ppb PAH SI	B	6			6F13054	MACTEC Engineering & Consulting, Inc
0606373-08	/OC: 8270/3541 ppb PAH SI	B	7			6F13054	MACTEC Engineering & Consulting, Inc
0606373-10	/OC: 8270/3541 ppb PAH SI	B	8			6F13054	MACTEC Engineering & Consulting, Inc
0606373-13	/OC: 8270/3541 ppb PAH SI	B	9			6F13054	MACTEC Engineering & Consulting, Inc
0606373-14	/OC: 8270/3541 ppb PAH SI	B	10			6F13054	MACTEC Engineering & Consulting, Inc
0606373-15	/OC: 8270/3541 ppb PAH SI	B	11			6F13054	MACTEC Engineering & Consulting, Inc
0606373-16	/OC: 8270/3541 ppb PAH SI	B	12			6F13054	MACTEC Engineering & Consulting, Inc
0606373-17	/OC: 8270/3541 ppb PAH SI	B	13			6F13054	MACTEC Engineering & Consulting, Inc
0606373-18	/OC: 8270/3541 ppb PAH SI	B	14			6F13054	MACTEC Engineering & Consulting, Inc
0606373-19	/OC: 8270/3541 ppb PAH SI	B	15			6F13054	MACTEC Engineering & Consulting, Inc
0606373-20	/OC: 8270/3541 ppb PAH SI	B	16			6F13054	MACTEC Engineering & Consulting, Inc
0606373-21	/OC: 8270/3541 ppb PAH SI	B	17			6F13054	MACTEC Engineering & Consulting, Inc
BG60519-BSD1	QC		18			6F13054	
BG60519-BS1	QC		19			6F13054	
BG60519-BLK1	QC		20			6F13054	

Samples Loaded By

Date

Data Processed By

Date

Data File : Q:\SVOA\MS2\_ME\ME0706\ME070306\SV213557.D Vial: 2  
 Acq On : 3 Jul 2006 7:59 am Operator: JLS  
 Sample : BPG0005-CCV1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Quant Time: Jul 3 8:25 2006 Quant Results File: PAH2DZ.RES

Quant Method : C:\HPCHEM\1\METHODS\PAH2DZ.M (RTE Integrator)  
 Title : LL PAH ELEMENT ID 0606036  
 Last Update : Mon Jul 03 06:13:54 2006  
 Response via : Initial Calibration  
 DataAcq Meth : PAH2DY

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.58	152	19255	2.00	ng/uL	0.00
3) Naphthalene-d8	4.93	136	67436	2.00	ng/uL	0.00
8) Acenaphthene-d10	7.58	164	32200	2.00	ng/uL	0.00
13) Phenanthrene-d10	10.38	188	36718	2.00	ng/uL	0.00
19) Chrysene-d12	15.97	240	23835	2.00	ng/uL	0.00
24) Perylene-d12	18.80	264	20896	2.00	ng/uL	0.00

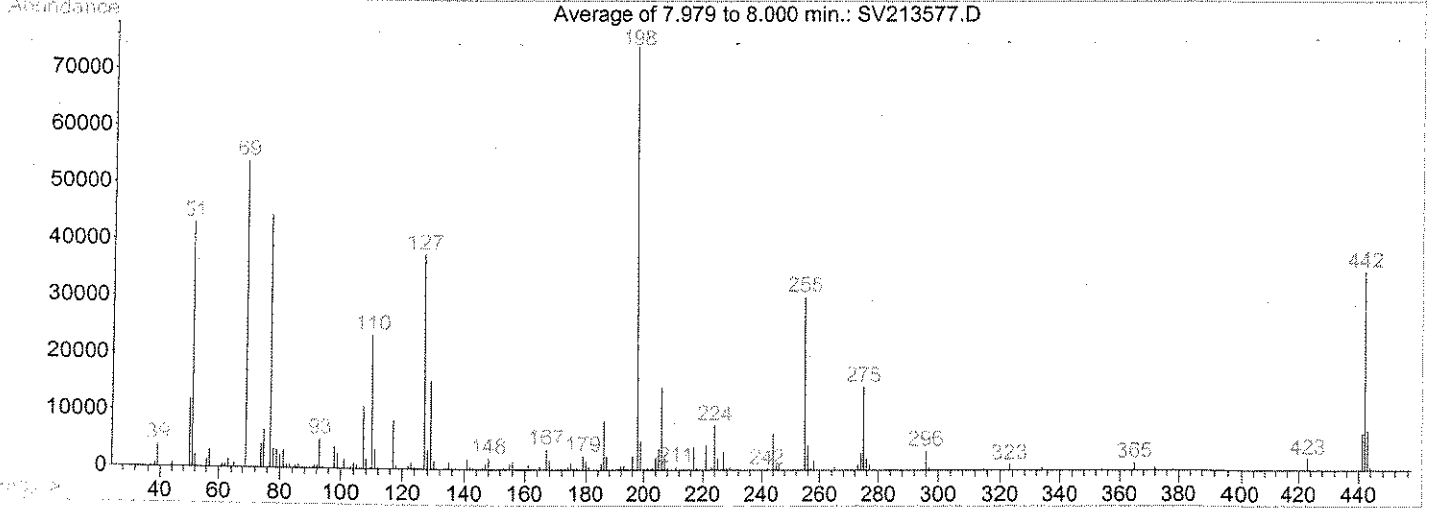
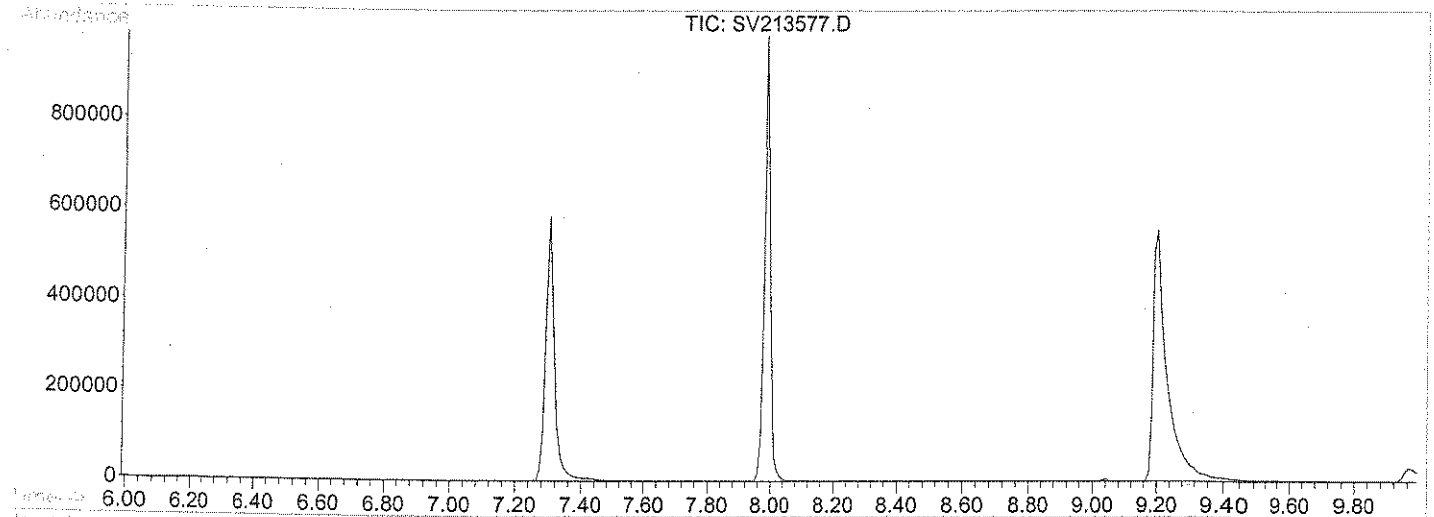
## System Monitoring Compounds

2) 1,2 Dichlorobenzene-d4 (SUR)	3.76	152	8862m	1.04	ng/uL	0.00
Spiked Amount 2.500			Recovery =	41.60%		
4) Nitrobenzene-d5 (SURR)	4.15	82	12501m	0.97	ng/uL	0.00
Spiked Amount 2.500			Recovery =	38.80%		
9) 2-Fluorobiphenyl (SURR)	6.45	172	22059	1.10	ng/uL	0.00
Spiked Amount 2.500			Recovery =	44.00%		
14) 2,4,6-Tribromophenol (SURR)	0.00	330	0d	0.00	ng/uL	
Spiked Amount 3.750			Recovery =	0.00%		
21) Terphenyl-d14 (SURR)	13.79	244	9545	0.93	ng/uL	0.00
Spiked Amount 2.500			Recovery =	37.20%		

## Target Compounds

						Qvalue
5) Naphthalene	4.95	128	34881	0.97	ng/uL#	96
6) 2-Methylnaphthalene	5.87	142	20114	0.97	ng/uL	98
7) 1-Methylnaphthalene	6.03	142	20568	0.97	ng/uL	94
10) Acenaphthylene	7.31	152	30429	1.01	ng/uL#	99
11) Acenaphthene	7.63	153	19544	1.02	ng/uL	98
12) Fluorene	8.55	166	18557	0.97	ng/uL	98
16) Phenanthrene	10.43	178	16796	0.97	ng/uL#	100
17) Anthracene	10.52	178	23983	1.03	ng/uL#	98
18) Fluoranthene	12.90	202	17176	1.00	ng/uL	96
20) Pyrene	13.37	202	17988	0.87	ng/uL	98
22) Benzo(a)anthracene	15.93	228	10351	0.96	ng/uL	97
23) Chrysene	16.02	228	22893	1.13	ng/uL	94
25) Benzo(b)fluoranthene	18.12	252	5775m	0.77	ng/uL	
26) Benzo(k)fluoranthene	18.15	252	27271m	1.04	ng/uL	
27) Benzo(a)pyrene	18.71	252	13827	0.99	ng/uL	95
28) Indeno(1,2,3-cd)pyrene	20.75	276	8428	0.78	ng/uL#	97
29) Dibenzo(a,h)anthracene	20.76	278	6442	0.76	ng/uL#	100
30) Benzo(g,h,i)perylene	21.24	276	7164	0.79	ng/uL#	98

Data File : Q:\SVOA\MS2\_ME\ME0706\ME070406\SV213577.D Vial: 1  
 Acq On : 4 Jul 2006 3:06 pm Operator: JLS  
 Sample : BPG0019-TUN1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Method : C:\HPCHEM\1\METHODS\PAH2DZ.M (RTE Integrator)  
 Title : LL PAH ELEMENT ID 0606036



Spectrum Information: Average of 7.979 to 8.000 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	57.6	42899	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	72.3	53928	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	50.6	37741	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	74541	PASS
199	198	5	9	6.7	4984	PASS
275	198	10	30	19.7	14696	PASS
365	198	1	100	1.8	1308	PASS
441	443	0.01	100	94.5	6514	PASS
442	198	40	100	46.9	34961	PASS
443	442	17	23	19.7	6894	PASS

## ANALYSIS SEQUENCE

BPG0019

Instrument: SVOAMS2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0019-TUN1	QC		1		6F26111		
BPG0019-CCV1	QC		2		6F28045	6F13054	
0606374-01	/OC: 8270/3541 ppb PAH SI	A	3			6F13054	MACTEC Engineering & Consulting, Inc
0606374-02	/OC: 8270/3541 ppb PAH SI	A	4			6F13054	MACTEC Engineering & Consulting, Inc
0606374-03	/OC: 8270/3541 ppb PAH SI	A	5			6F13054	MACTEC Engineering & Consulting, Inc
0606374-04	/OC: 8270/3541 ppb PAH SI	A	6			6F13054	MACTEC Engineering & Consulting, Inc
0606374-05	/OC: 8270/3541 ppb PAH SI	A	7			6F13054	MACTEC Engineering & Consulting, Inc
0606374-06	/OC: 8270/3541 ppb PAH SI	A	8			6F13054	MACTEC Engineering & Consulting, Inc
0606374-07	/OC: 8270/3541 ppb PAH SI	A	9			6F13054	MACTEC Engineering & Consulting, Inc
0606374-08	/OC: 8270/3541 ppb PAH SI	A	10			6F13054	MACTEC Engineering & Consulting, Inc
0606374-09	/OC: 8270/3541 ppb PAH SI	A	11			6F13054	MACTEC Engineering & Consulting, Inc
0606374-10	/OC: 8270/3541 ppb PAH SI	A	12			6F13054	MACTEC Engineering & Consulting, Inc
0606374-11	/OC: 8270/3541 ppb PAH SI	A	13			6F13054	MACTEC Engineering & Consulting, Inc
0606374-12	/OC: 8270/3541 ppb PAH SI	A	14			6F13054	MACTEC Engineering & Consulting, Inc
BF62717-BLK1	QC		15			6F13054	
BF62717-BS1	QC		16			6F13054	
BF62717-BSD1	QC		17			6F13054	
0606373-12	/OC: 8270/3541 ppb PAH SI	B	18			6F13054	MACTEC Engineering & Consulting, Inc
0606373-09	/OC: 8270/3541 ppb PAH SI	B	19			6F13054	MACTEC Engineering & Consulting, Inc
0606373-05	/OC: 8270/3541 ppb PAH SI	B	20			6F13054	MACTEC Engineering & Consulting, Inc
BG60702-BLK1	QC		21			6F13054	
BG60702-BS1	QC		22			6F13054	
BG60702-BSD1	QC		23			6F13054	

Samples Loaded By

Date

661  
Data Processed By

Date

Data File : Q:\SVOA\MS2\_ME\ME0706\ME070406\SV213578.D Vial: 2  
 Acq On : 4 Jul 2006 3:26 pm Operator: JLS  
 Sample : BPG0019-CCV1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00

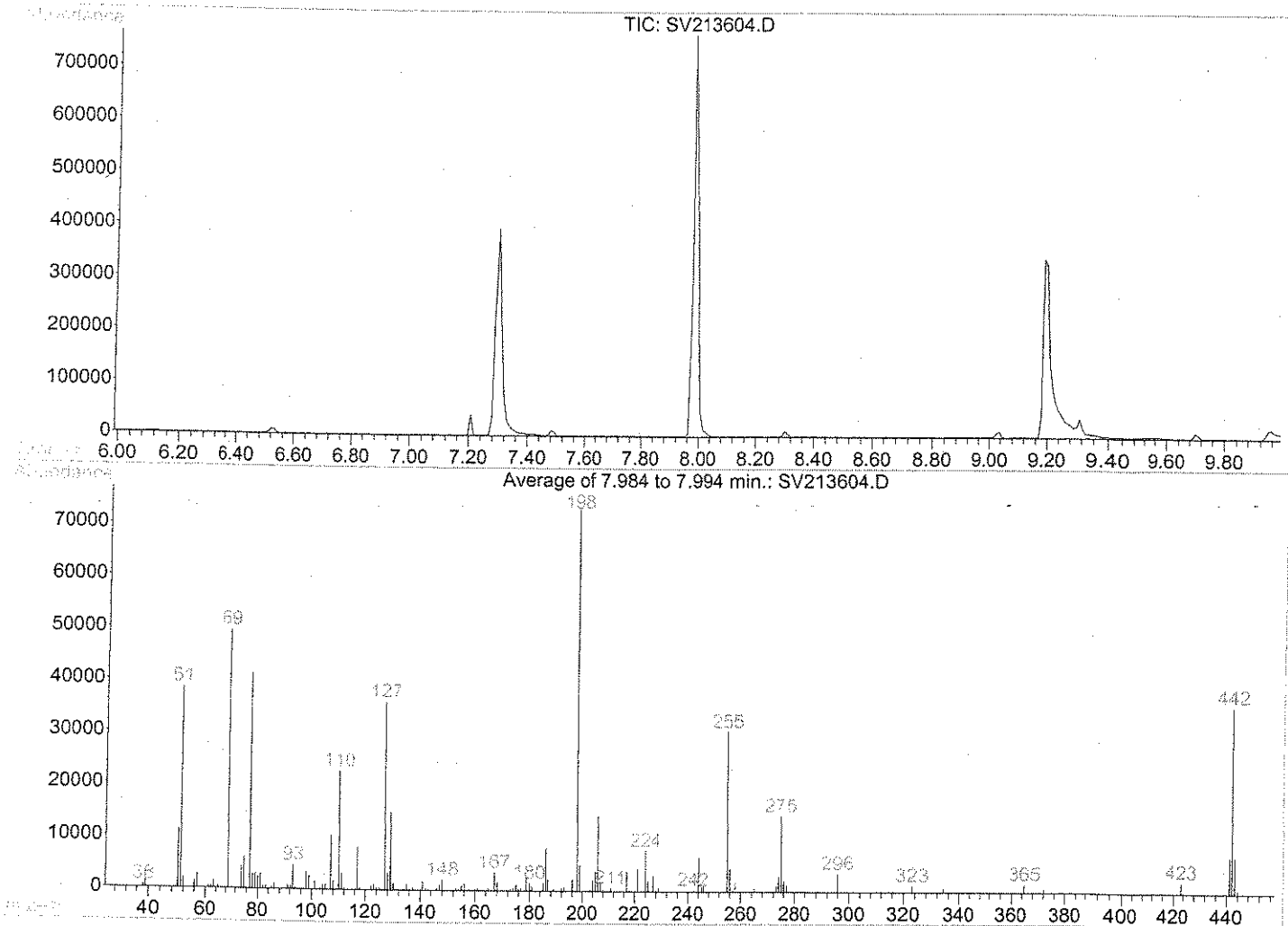
MS Integration Params: rteint.p  
 Quant Time: Jul 4 16:41 2006

Quant Results File: PAH2DZ.RES

Quant Method : C:\HPCHEM\1\METHODS\PAH2DZ.M (RTE Integrator)  
 Title : LL PAH ELEMENT ID 0606036  
 Last Update : Mon Jul 03 06:13:54 2006  
 Response via : Initial Calibration  
 DataAcq Meth : PAH2DY

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	3.55	152	18608	2.00	ng/uL	-0.04
3) Naphthalene-d8	4.89	136	73621	2.00	ng/uL	-0.05
8) Acenaphthene-d10	7.52	164	33177	2.00	ng/uL	-0.06
13) Phenanthrene-d10	10.32	188	39020	2.00	ng/uL	-0.07
19) Chrysene-d12	15.91	240	22888	2.00	ng/uL	-0.07
24) Perylene-d12	18.74	264	28535	2.00	ng/uL	-0.08
System Monitoring Compounds						
2) 1,2 Dichlorobenzene-d4 (SUR)	3.73	152	8518	1.04	ng/uL	-0.04
Spiked Amount	2.500		Recovery	=	41.60%	
4) Nitrobenzene-d5 (SURR)	4.12	82	9117	0.65	ng/uL	-0.03
Spiked Amount	2.500		Recovery	=	26.00%	
9) 2-Fluorobiphenyl (SURR)	6.40	172	21660	1.05	ng/uL	-0.05
Spiked Amount	2.500		Recovery	=	42.00%	
14) 2,4,6-Tribromophenol (SURR)	9.22	330	175	0.01	ng/uL	0.00
Spiked Amount	3.750		Recovery	=	0.27%	
21) Terphenyl-d14 (SURR)	13.73	244	9502	0.96	ng/uL	-0.07
Spiked Amount	2.500		Recovery	=	38.40%	
Target Compounds						
5) Naphthalene	4.91	128	32968	0.84	ng/uL#	96
6) 2-Methylnaphthalene	5.82	142	20003	0.88	ng/uL	99
7) 1-Methylnaphthalene	5.98	142	20317	0.88	ng/uL	94
10) Acenaphthylene	7.25	152	33193	1.07	ng/uL#	94
11) Acenaphthene	7.57	153	19790	1.00	ng/uL	99
12) Fluorene	8.50	166	21172	1.08	ng/uL	99
15) Pentachlorophenol	10.26	266	144	0.44	ng/uL#	100
16) Phenanthrene	10.37	178	17931	0.98	ng/uL#	99
17) Anthracene	10.46	178	26031	1.06	ng/uL#	94
18) Fluoranthene	12.85	202	17697	0.97	ng/uL	97
20) Pyrene	13.31	202	18480	0.93	ng/uL	97
22) Benzo(a)anthracene	15.87	228	9240	0.89	ng/uL	98
23) Chrysene	15.96	228	21853	1.12	ng/uL	93
25) Benzo(b)fluoranthene	18.06	252	8606m	0.84	ng/uL	
26) Benzo(k)fluoranthene	18.08	252	32462m	0.89	ng/uL	
27) Benzo(a)pyrene	18.64	252	18964	0.99	ng/uL	96
28) Indeno(1,2,3-cd)pyrene	20.66	276	15343	1.07	ng/uL#	97
29) Dibenzo(a,h)anthracene	20.68	278	11896	1.06	ng/uL#	95
30) Benzo(g,h,i)perylene	21.14	276	12849	1.09	ng/uL#	100

Data File : Q:\SVOA\MS2\_ME\ME0706\ME070506\SV213604.D Vial: 1  
 Acq On : 5 Jul 2006 8:42 am Operator: VSC  
 Sample : BPG0012-TUN1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00  
 MS Integration Params: rteint.p  
 Method : C:\HPCHEM\1\METHODS\PAH2DZ.M (RTE Integrator)  
 Title : LL PAH ELEMENT ID 0606036



Spectrum Information: Average of 7.984 to 7.994 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	52.6	38508	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	67.6	49536	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	49.2	36028	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	73232	PASS
199	198	5	9	6.6	4860	PASS
275	198	10	30	19.8	14464	PASS
365	198	1	100	2.1	1523	PASS
441	443	0.01	100	98.1	6885	PASS
442	198	40	100	48.8	35772	PASS
443	442	17	23	19.6	7015	PASS

## ANALYSIS SEQUENCE

BPG0012

Instrument: SVOAMS2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0012-TUN1	QC		1		6F26111		
BPG0012-CCV1	QC		2		6F28045	6F13054	
0606374-13	/OC: 8270/3541 ppb PAH SI	A	3			6F13054	MACTEC Engineering & Consulting, Inc
0606374-14	/OC: 8270/3541 ppb PAH SI	A	4			6F13054	MACTEC Engineering & Consulting, Inc
0606374-15	/OC: 8270/3541 ppb PAH SI	A	5			6F13054	MACTEC Engineering & Consulting, Inc
0606374-16	/OC: 8270/3541 ppb PAH SI	A	6			6F13054	MACTEC Engineering & Consulting, Inc
0606373-03	/OC: 8270/3541 ppb PAH SI	B	7			6F13054	MACTEC Engineering & Consulting, Inc
0606373-01	/OC: 8270/3541 ppb PAH SI	B	8			6F13054	MACTEC Engineering & Consulting, Inc
0606383-02	/OC: 8270/3541 ppb PAH SI	A	9			6F13054	MACTEC Engineering & Consulting, Inc
0606383-05	/OC: 8270/3541 ppb PAH SI	A	10			6F13054	MACTEC Engineering & Consulting, Inc
0606383-12	/OC: 8270/3541 ppb PAH SI	A	11			6F13054	MACTEC Engineering & Consulting, Inc
0606383-13	/OC: 8270/3541 ppb PAH SI	A	12			6F13054	MACTEC Engineering & Consulting, Inc
0606373-20RE1	/OC: 8270/3541 ppb PAH SI	B	13			6F13054	MACTEC Engineering & Consulting, Inc
0606373-09RE1	/OC: 8270/3541 ppb PAH SI	B	14			6F13054	MACTEC Engineering & Consulting, Inc
0606373-05RE1	/OC: 8270/3541 ppb PAH SI	B	15			6F13054	MACTEC Engineering & Consulting, Inc
0606373-03RE1	/OC: 8270/3541 ppb PAH SI	B	16			6F13054	MACTEC Engineering & Consulting, Inc

Samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

664  
Data Processed By \_\_\_\_\_ Date \_\_\_\_\_



Data File : Q:\SVOA\MS2\_ME\ME0706\ME070506\SV213605.D Vial: 2  
 Acq On : 5 Jul 2006 9:04 am Operator: VSC  
 Sample : BPG0012-CCV1 Inst : GC/MS 2  
 Misc : Multiplr: 1.00

MS Integration Params: rteint.p

Quant Time: Jul 5 9:31 2006

Quant Results File: PAH2DZ.RES

Quant Method : C:\HPCHEM\1\METHODS\PAH2DZ.M (RTE Integrator)

Title : LL PAH ELEMENT ID 0606036

Last Update : Mon Jul 03 06:13:54 2006

Response via : Initial Calibration

DataAcq Meth : PAH2DZ

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.53	152	25608	2.00	ng/uL	-0.05
3) Naphthalene-d8	4.88	136	83085	2.00	ng/uL	-0.06
8) Acenaphthene-d10	7.51	164	40211	2.00	ng/uL	-0.08
13) Phenanthrene-d10	10.31	188	51255	2.00	ng/uL	-0.08
19) Chrysene-d12	15.88	240	34858	2.00	ng/uL	-0.10
24) Perylene-d12	18.71	264	37299	2.00	ng/uL	-0.10
System Monitoring Compounds						
2) 1,2 Dichlorobenzene-d4 (SUR)	3.71	152	11742	1.04	ng/uL	-0.05
Spiked Amount	2.500		Recovery	=	41.60%	
4) Nitrobenzene-d5 (SURR)	4.10	82	15967m	1.01	ng/uL	-0.06
Spiked Amount	2.500		Recovery	=	40.40%	
9) 2-Fluorobiphenyl (SURR)	6.38	172	26375	1.05	ng/uL	-0.07
Spiked Amount	2.500		Recovery	=	42.00%	
14) 2,4,6-Tribromophenol (SURR)	9.22	330	132	-0.04	ng/uL	0.00
Spiked Amount	3.750		Recovery	=	-1.07%	
21) Terphenyl-d14 (SURR)	13.70	244	14023	0.93	ng/uL	-0.09
Spiked Amount	2.500		Recovery	=	37.20%	
Target Compounds						
5) Naphthalene	4.90	128	42341	0.96	ng/uL#	96
6) 2-Methylnaphthalene	5.81	142	24922	0.97	ng/uL	98
7) 1-Methylnaphthalene	5.96	142	25344	0.97	ng/uL	94
10) Acenaphthylene	7.23	152	38881	1.04	ng/uL#	99
11) Acenaphthene	7.56	153	24405	1.02	ng/uL	98
12) Fluorene	8.48	166	24352	1.02	ng/uL	98
15) Pentachlorophenol	10.24	266	389	0.57	ng/uL#	100
16) Phenanthrene	10.35	178	23947	0.99	ng/uL#	99
17) Anthracene	10.44	178	33434	1.03	ng/uL#	94
18) Fluoranthene	12.83	202	26718	1.12	ng/uL	95
20) Pyrene	13.29	202	28089	0.93	ng/uL	99
22) Benzo(a)anthracene	15.85	228	16227	1.03	ng/uL	98
23) Chrysene	15.93	228	34362	1.17	ng/uL	95
25) Benzo(b)fluoranthene	18.03	252	12513m	0.93	ng/uL	
26) Benzo(k)fluoranthene	18.06	252	44014m	0.93	ng/uL	
27) Benzo(a)pyrene	18.61	252	25874	1.04	ng/uL	98
28) Indeno(1,2,3-cd)pyrene	20.64	276	16950	0.89	ng/uL#	95
29) Dibenzo(a,h)anthracene	20.65	278	13615	0.92	ng/uL#	97
30) Benzo(g,h,i)perylene	21.11	276	14362	0.91	ng/uL#	99

(#) = qualifier out of range (m) = manual integration  
 SV213605.D PAH2DZ.M Wed Jul 05 09:31:58 2006

# Semi-Volatile Organics Logbooks

# ESS Organic Preparation Logbook

Project #: 6604377 Surrogate ID# A1008077 Matrix Spike ID# U11077 Analytical Matrix: Oil  
 Prep Date: 10/26/05 Batch ID: 30402605 Extraction Method: 354 C NA  
 Extraction Method: 354 C NA  
 Start: 09:00 Finish: 11:00  
 \* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH<sub>2</sub>Cl<sub>2</sub>) is transferred as Volume 2.

ESS ID	Vol (ml) Wt (g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Extract Vol (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Vol #1 (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Vol #2 (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Date	Bath Temp (C)	pH	Discard	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.	Analysis Performed
S04FL1405-0	20.0	1	NA	1	1	NA	10/26/05	UD	NA	NA	NA	NA	NA	NA	PCB <input type="checkbox"/>
-01	20.0	1	1	1	1	1									B/N SVOA <input type="checkbox"/>
-02	20.0	1	1	1	1	1									SVOA <input checked="" type="checkbox"/>
-03	20.0	1	0.001	1	1	1									LL PAH <input checked="" type="checkbox"/>
-04	20.0	1	0.001	1	1	1									PEST <input checked="" type="checkbox"/>
0604377-01	19.2	1	NA	1	1	1									TPH/GC <input type="checkbox"/>
-05	19.9	1	1	1	1	1									BIS-2 <input type="checkbox"/>
-06	20.1	1	1	1	1	1									PAH <input type="checkbox"/>
-07	20.4	1	1	1	1	1									
-08	20.2	1	NA	1	1	1									
-09	19.8	1	1	1	1	1									
-10	19.6	1	1	1	1	1									
-11	19.0	1	NA	1	1	1									
-12	21.0	1	1	1	1	1									
-13	20.1	1	1	1	1	1									
-14	20.2	1	1	1	1	1									
-15	19.3	1	1	1	1	1									
-16	19.9	1	1	1	1	1									
-17	20.4	1	1	1	1	1									
-18	21.0	1	NA	1	1	NA	10/26/05	UD	NA	NA	NA	NA	NA	NA	

Split Extraction\*   
 CH<sub>2</sub>Cl<sub>2</sub> lot # C0497 NaOH ID# NA  
 Hexane lot# NA Na<sub>2</sub>SO<sub>4</sub> ID# 100422006  
 Acetone lot# NA  
 BATCH ID/Test: 3662605 Page       
 Prepared By EL Glasswool: FEEDBACK Method #(s): 1070  
 Acid Washed: Y(N) Florisil: Y(N) Silica Column/Carbon prep: Y(N)  
 H<sub>2</sub>SO<sub>4</sub> ID# NA Lot# NA

\*\*Check off column if entire sample used and bottle discarded.

*continued from page 138*

**ESS Organic Preparation Logbook**

Project #: 060373  
 Prep Date: 6/26/06  
 Batch ID: X0602605  
 Extraction Method: 3041

Surrogate ID# NA  
 Matrix Spike ID# NA  
 Analytical Matrix: AD1  
 Extraction Time: 0900  
 Start: 0900  
 Finish: NA

**Split Extraction\***   
 \* Half of the final extract volume (0.5ml) is exchanged into 5ml Hexane and transferred as Vol 1. The other half (0.5ml CH<sub>2</sub>Cl<sub>2</sub>) is transferred as Volume 2.

- Analysis Performed
- PCB
  - B/N SVOA
  - SVOA
  - LL PAH
  - PEST
  - TPH/GC
  - BIS-2
  - PAH

ESS ID	Vol(ml)/Wt(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Extract Vol (ml) Hex/Ph <sub>2</sub> S	Transfer Vol #1 (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Vol #2 (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Date	Bath Temp (C)	pH	Discard bottle #	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
<u>060373-26</u>	<u>20.1</u>	<u>1</u>	<u>NA</u>	<u>1</u>	<u>1</u>	<u>NA</u>	<u>6/26/06</u>	<u>40</u>	<u>NA</u>	<u>NA</u>		<u>RM</u>	<u>MM</u>	<u>JS</u>
<u>-21</u>	<u>20.3</u>	<u>1</u>	<u>NA</u>	<u>1</u>	<u>1</u>	<u>NA</u>	<u>6/26/06</u>	<u>40</u>	<u>NA</u>	<u>NA</u>		<u>RM</u>	<u>MM</u>	<u>JS</u>
<i>Handwritten notes and scribbles</i>														

Acid Washed: Y Florisil: Y Silica Column/Carbon prep: Y  
 H<sub>2</sub>SO<sub>4</sub> ID# NA Lot# NA Lot # NA

Prepared By: EM Glasswool: AD1614 Method #(s): 2072  
 CH<sub>2</sub>Cl<sub>2</sub> lot # CQ179 NaOH ID# NA  
 Hexane lot# NA Na<sub>2</sub>SO<sub>4</sub> ID# AD1614  
 Acetone lot# NA

\*\*Check off column if entire sample used and bottle discarded.

# Pesticides Data Package

# Pesticides Sample Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3101  
Date Sampled: 06/21/06 10:20  
Percent Solids: 24  
Initial Volume: 20.1  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-01  
Sample Matrix: Soil  
Analyst: SEP  
Prepared: 06/23/06

### 8081A Organochlorine Pesticides

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
4,4'-DDD	ND	ug/Kg dry	20.7	1	06/26/06
4,4'-DDE	ND	ug/Kg dry	20.7	1	06/26/06
4,4'-DDT	ND	ug/Kg dry	20.7	1	06/26/06
Aldrin	ND	ug/Kg dry	20.7	1	06/26/06
alpha-BHC	ND	ug/Kg dry	20.7	1	06/26/06
alpha-Chlordane	ND	ug/Kg dry	20.7	1	06/26/06
beta-BHC	ND	ug/Kg dry	20.7	1	06/26/06
Chlordane (Total)	ND	ug/Kg dry	20.7	1	06/26/06
delta-BHC	ND	ug/Kg dry	20.7	1	06/26/06
Dieldrin	ND	ug/Kg dry	20.7	1	06/26/06
Endosulfan I	ND	ug/Kg dry	20.7	1	06/26/06
Endosulfan II	ND	ug/Kg dry	20.7	1	06/26/06
Endosulfan Sulfate	ND	ug/Kg dry	20.7	1	06/26/06
Endrin	ND	ug/Kg dry	20.7	1	06/26/06
Endrin Aldehyde	ND	ug/Kg dry	20.7	1	06/26/06
Endrin Ketone	ND	ug/Kg dry	20.7	1	06/26/06
gamma-BHC (Lindane)	ND	ug/Kg dry	20.7	1	06/26/06
gamma-Chlordane	ND	ug/Kg dry	20.7	1	06/26/06
Heptachlor	ND	ug/Kg dry	20.7	1	06/26/06
Heptachlor Epoxide	ND	ug/Kg dry	20.7	1	06/26/06
Hexachlorobenzene	ND	ug/Kg dry	20.7	1	06/26/06
Methoxychlor	ND	ug/Kg dry	20.7	1	06/26/06
Toxaphene	ND	ug/Kg dry	1040	1	06/26/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	95 %		30-150
Surrogate: Decachlorobiphenyl [2C]	74 %		30-150
Surrogate: Tetrachloro-m-xylene	70 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	60 %		30-150

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3001  
Date Sampled: 06/21/06 13:30  
Percent Solids: 80  
Initial Volume: 19.7  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-03  
Sample Matrix: Soil  
Analyst: SEP  
Prepared: 06/23/06

### 8081A Organochlorine Pesticides

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
4,4'-DDD	ND	ug/Kg dry	6.35	1	06/26/06
4,4'-DDE	ND	ug/Kg dry	6.35	1	06/26/06
4,4'-DDT	ND	ug/Kg dry	6.35	1	06/26/06
Aldrin	ND	ug/Kg dry	6.35	1	06/26/06
alpha-BHC	ND	ug/Kg dry	6.35	1	06/26/06
alpha-Chlordane	ND	ug/Kg dry	6.35	1	06/26/06
beta-BHC	ND	ug/Kg dry	6.35	1	06/26/06
Chlordane (Total)	ND	ug/Kg dry	63.5	1	06/26/06
delta-BHC	ND	ug/Kg dry	6.35	1	06/26/06
Dieldrin	ND	ug/Kg dry	6.35	1	06/26/06
Endosulfan I	ND	ug/Kg dry	6.35	1	06/26/06
Endosulfan II	ND	ug/Kg dry	6.35	1	06/26/06
Endosulfan Sulfate	ND	ug/Kg dry	6.35	1	06/26/06
Endrin	ND	ug/Kg dry	6.35	1	06/26/06
Endrin Aldehyde	ND	ug/Kg dry	6.35	1	06/26/06
Endrin Ketone	ND	ug/Kg dry	6.35	1	06/26/06
gamma-BHC (Lindane)	ND	ug/Kg dry	6.35	1	06/26/06
gamma-Chlordane	ND	ug/Kg dry	6.35	1	06/26/06
Heptachlor	ND	ug/Kg dry	6.35	1	06/26/06
Heptachlor Epoxide	ND	ug/Kg dry	6.35	1	06/26/06
Hexachlorobenzene	ND	ug/Kg dry	6.35	1	06/26/06
Methoxychlor	ND	ug/Kg dry	6.35	1	06/26/06
Toxaphene	ND	ug/Kg dry	317	1	06/26/06

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	109 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	82 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	69 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	59 %		30-150



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
 Client Project ID: Providence Gorham Site  
 Client Sample ID: SED2801  
 Date Sampled: 06/21/06 14:02  
 Percent Solids: 27  
 Initial Volume: 19.2  
 Final Volume: 10  
 Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
 ESS Laboratory Sample ID: 0606373-05  
 Sample Matrix: Soil  
 Analyst: SEP  
 Prepared: 06/23/06

### 8081A Organochlorine Pesticides

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
4,4'-DDD	ND	ug/Kg dry	19.3	1	06/26/06
4,4'-DDE	ND	ug/Kg dry	19.3	1	06/26/06
4,4'-DDT	ND	ug/Kg dry	19.3	1	06/26/06
Aldrin	ND	ug/Kg dry	19.3	1	06/26/06
alpha-BHC	ND	ug/Kg dry	19.3	1	06/26/06
alpha-Chlordane	ND	ug/Kg dry	19.3	1	06/26/06
beta-BHC	ND	ug/Kg dry	19.3	1	06/26/06
Chlordane (Total)	ND	ug/Kg dry	19.3	1	06/26/06
delta-BHC	ND	ug/Kg dry	19.3	1	06/26/06
Dieldrin	ND	ug/Kg dry	19.3	1	06/26/06
Endosulfan I	ND	ug/Kg dry	19.3	1	06/26/06
Endosulfan II	ND	ug/Kg dry	19.3	1	06/26/06
Endosulfan Sulfate	ND	ug/Kg dry	19.3	1	06/26/06
Endrin	ND	ug/Kg dry	19.3	1	06/26/06
Endrin Aldehyde	ND	ug/Kg dry	19.3	1	06/26/06
Endrin Ketone	ND	ug/Kg dry	19.3	1	06/26/06
gamma-BHC (Lindane)	ND	ug/Kg dry	19.3	1	06/26/06
gamma-Chlordane	ND	ug/Kg dry	19.3	1	06/26/06
Heptachlor	ND	ug/Kg dry	19.3	1	06/26/06
Heptachlor Epoxide	ND	ug/Kg dry	19.3	1	06/26/06
Hexachlorobenzene	ND	ug/Kg dry	19.3	1	06/26/06
Methoxychlor	ND	ug/Kg dry	19.3	1	06/26/06
Toxaphene	ND	ug/Kg dry	965	1	06/26/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	121 %		30-150
Surrogate: Decachlorobiphenyl [2C]	101 %		30-150
Surrogate: Tetrachloro-m-xylene	84 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	72 %		30-150

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2901  
Date Sampled: 06/21/06 14:42  
Percent Solids: 25  
Initial Volume: 19  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-07  
Sample Matrix: Soil  
Analyst: SEP  
Prepared: 06/23/06

### 8081A Organochlorine Pesticides

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
4,4'-DDD	ND	ug/Kg dry	21.1	1	06/26/06
4,4'-DDE	ND	ug/Kg dry	21.1	1	06/26/06
4,4'-DDT	ND	ug/Kg dry	21.1	1	06/26/06
Aldrin	ND	ug/Kg dry	21.1	1	06/26/06
alpha-BHC	ND	ug/Kg dry	21.1	1	06/26/06
alpha-Chlordane	ND	ug/Kg dry	21.1	1	06/26/06
beta-BHC	ND	ug/Kg dry	21.1	1	06/26/06
Chlordane (Total)	ND	ug/Kg dry	21.1	1	06/26/06
delta-BHC	ND	ug/Kg dry	21.1	1	06/26/06
Dieldrin	ND	ug/Kg dry	21.1	1	06/26/06
Endosulfan I	ND	ug/Kg dry	21.1	1	06/26/06
Endosulfan II	ND	ug/Kg dry	21.1	1	06/26/06
Endosulfan Sulfate	ND	ug/Kg dry	21.1	1	06/26/06
Endrin	ND	ug/Kg dry	21.1	1	06/26/06
Endrin Aldehyde	ND	ug/Kg dry	21.1	1	06/26/06
Endrin Ketone	ND	ug/Kg dry	21.1	1	06/26/06
gamma-BHC (Lindane)	ND	ug/Kg dry	21.1	1	06/26/06
gamma-Chlordane	ND	ug/Kg dry	21.1	1	06/26/06
Heptachlor	ND	ug/Kg dry	21.1	1	06/26/06
Heptachlor Epoxide	ND	ug/Kg dry	21.1	1	06/26/06
Hexachlorobenzene	ND	ug/Kg dry	21.1	1	06/26/06
Methoxychlor	ND	ug/Kg dry	21.1	1	06/26/06
Toxaphene	ND	ug/Kg dry	1050	1	06/26/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	110 %		30-150
Surrogate: Decachlorobiphenyl [2C]	99 %		30-150
Surrogate: Tetrachloro-m-xylene	81 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	73 %		30-150

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3201  
Date Sampled: 06/21/06 15:22  
Percent Solids: 72  
Initial Volume: 20.5  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-09  
Sample Matrix: Soil  
Analyst: SEP  
Prepared: 06/23/06

### 8081A Organochlorine Pesticides

<u>Analyte</u>		<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
4,4'-DDD		30.1	ug/Kg dry	6.78	1	06/26/06
4,4'-DDE	P	10.9	ug/Kg dry	6.78	1	06/26/06
4,4'-DDT	E	72.6	ug/Kg dry	6.78	1	06/26/06
Aldrin		ND	ug/Kg dry	6.78	1	06/26/06
alpha-BHC		ND	ug/Kg dry	6.78	1	06/26/06
alpha-Chlordane		ND	ug/Kg dry	6.78	1	06/26/06
beta-BHC		ND	ug/Kg dry	6.78	1	06/26/06
Chlordane (Total)		ND	ug/Kg dry	67.8	1	06/26/06
delta-BHC		ND	ug/Kg dry	6.78	1	06/26/06
Dieldrin		ND	ug/Kg dry	6.78	1	06/26/06
Endosulfan I		ND	ug/Kg dry	6.78	1	06/26/06
Endosulfan II		ND	ug/Kg dry	6.78	1	06/26/06
Endosulfan Sulfate		ND	ug/Kg dry	6.78	1	06/26/06
Endrin		ND	ug/Kg dry	6.78	1	06/26/06
Endrin Aldehyde		ND	ug/Kg dry	6.78	1	06/26/06
Endrin Ketone		ND	ug/Kg dry	6.78	1	06/26/06
gamma-BHC (Lindane)		ND	ug/Kg dry	6.78	1	06/26/06
gamma-Chlordane		ND	ug/Kg dry	6.78	1	06/26/06
Heptachlor		ND	ug/Kg dry	6.78	1	06/26/06
Heptachlor Epoxide		ND	ug/Kg dry	6.78	1	06/26/06
Hexachlorobenzene		ND	ug/Kg dry	6.78	1	06/26/06
Methoxychlor		ND	ug/Kg dry	6.78	1	06/26/06
Toxaphene		ND	ug/Kg dry	339	1	06/26/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	122 %		30-150
Surrogate: Decachlorobiphenyl [2C]	96 %		30-150
Surrogate: Tetrachloro-m-xylene	89 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	70 %		30-150

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JUL 25 2006

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3201  
Date Sampled: 06/21/06 15:22  
Percent Solids: 72  
Initial Volume: 20.5  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-09RE1  
Sample Matrix: Soil  
Analyst: ML  
Prepared: 06/23/06

### 8081A Organochlorine Pesticides

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
4,4'-DDD	ND	ug/Kg dry	6.78	1	06/27/06
4,4'-DDE	ND	ug/Kg dry	6.78	1	06/27/06
<b>4,4'-DDT</b>	<b>31.7</b>	ug/Kg dry	6.78	1	06/27/06
Aldrin	ND	ug/Kg dry	6.78	1	06/27/06
alpha-BHC	ND	ug/Kg dry	6.78	1	06/27/06
alpha-Chlordane	ND	ug/Kg dry	6.78	1	06/27/06
beta-BHC	ND	ug/Kg dry	6.78	1	06/27/06
Chlordane (Total)	ND	ug/Kg dry	67.8	1	06/27/06
delta-BHC	ND	ug/Kg dry	6.78	1	06/27/06
Dieldrin	ND	ug/Kg dry	6.78	1	06/27/06
Endosulfan I	ND	ug/Kg dry	6.78	1	06/27/06
Endosulfan II	ND	ug/Kg dry	6.78	1	06/27/06
Endosulfan Sulfate	ND	ug/Kg dry	6.78	1	06/27/06
Endrin	ND	ug/Kg dry	6.78	1	06/27/06
Endrin Aldehyde	ND	ug/Kg dry	6.78	1	06/27/06
Endrin Ketone	ND	ug/Kg dry	6.78	1	06/27/06
gamma-BHC (Lindane)	ND	ug/Kg dry	6.78	1	06/27/06
gamma-Chlordane	ND	ug/Kg dry	6.78	1	06/27/06
Heptachlor	ND	ug/Kg dry	6.78	1	06/27/06
Heptachlor Epoxide	ND	ug/Kg dry	6.78	1	06/27/06
Hexachlorobenzene	ND	ug/Kg dry	6.78	1	06/27/06
Methoxychlor	ND	ug/Kg dry	6.78	1	06/27/06
Toxaphene	ND	ug/Kg dry	339	1	06/27/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	47 %		30-150
Surrogate: Decachlorobiphenyl [2C]	40 %		30-150
Surrogate: Tetrachloro-m-xylene	49 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	33 %		30-150

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JUL 25 2006

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
 Client Project ID: Providence Gorham Site  
 Client Sample ID: SED2001  
 Date Sampled: 06/22/06 08:40  
 Percent Solids: 43  
 Initial Volume: 20.7  
 Final Volume: 10  
 Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
 ESS Laboratory Sample ID: 0606373-12  
 Sample Matrix: Soil  
 Analyst: SEP  
 Prepared: 06/23/06

### 8081A Organochlorine Pesticides

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
4,4'-DDD	P 29.2	ug/Kg dry	11.2	1	06/26/06
4,4'-DDE	ND	ug/Kg dry	11.2	1	06/26/06
4,4'-DDT	ND	ug/Kg dry	11.2	1	06/26/06
Aldrin	ND	ug/Kg dry	11.2	1	06/26/06
alpha-BHC	ND	ug/Kg dry	11.2	1	06/26/06
alpha-Chlordane	ND	ug/Kg dry	11.2	1	06/26/06
beta-BHC	ND	ug/Kg dry	11.2	1	06/26/06
Chlordane (Total)	ND	ug/Kg dry	11.2	1	06/26/06
delta-BHC	ND	ug/Kg dry	11.2	1	06/26/06
Dieldrin	ND	ug/Kg dry	11.2	1	06/26/06
Endosulfan I	ND	ug/Kg dry	11.2	1	06/26/06
Endosulfan II	ND	ug/Kg dry	11.2	1	06/26/06
Endosulfan Sulfate	ND	ug/Kg dry	11.2	1	06/26/06
Endrin	ND	ug/Kg dry	11.2	1	06/26/06
Endrin Aldehyde	ND	ug/Kg dry	11.2	1	06/26/06
Endrin Ketone	ND	ug/Kg dry	11.2	1	06/26/06
gamma-BHC (Lindane)	ND	ug/Kg dry	11.2	1	06/26/06
gamma-Chlordane	ND	ug/Kg dry	11.2	1	06/26/06
Heptachlor	ND	ug/Kg dry	11.2	1	06/26/06
Heptachlor Epoxide	ND	ug/Kg dry	11.2	1	06/26/06
Hexachlorobenzene	ND	ug/Kg dry	11.2	1	06/26/06
Methoxychlor	ND	ug/Kg dry	11.2	1	06/26/06
Toxaphene	ND	ug/Kg dry	562	1	06/26/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	90 %		30-150
Surrogate: Decachlorobiphenyl [2C]	75 %		30-150
Surrogate: Tetrachloro-m-xylene	66 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	58 %		30-150

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1701  
Date Sampled: 06/22/06 09:15  
Percent Solids: 71  
Initial Volume: 21  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-14  
Sample Matrix: Soil  
Analyst: SEP  
Prepared: 06/23/06

### 8081A Organochlorine Pesticides

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
4,4'-DDD	ND	ug/Kg dry	6.71	1	06/26/06
4,4'-DDE	ND	ug/Kg dry	6.71	1	06/26/06
4,4'-DDT	ND	ug/Kg dry	6.71	1	06/26/06
Aldrin	ND	ug/Kg dry	6.71	1	06/26/06
alpha-BHC	ND	ug/Kg dry	6.71	1	06/26/06
alpha-Chlordane	ND	ug/Kg dry	6.71	1	06/26/06
beta-BHC	ND	ug/Kg dry	6.71	1	06/26/06
Chlordane (Total)	ND	ug/Kg dry	6.71	1	06/26/06
delta-BHC	ND	ug/Kg dry	6.71	1	06/26/06
Dieldrin	ND	ug/Kg dry	6.71	1	06/26/06
Endosulfan I	ND	ug/Kg dry	6.71	1	06/26/06
Endosulfan II	ND	ug/Kg dry	6.71	1	06/26/06
Endosulfan Sulfate	ND	ug/Kg dry	6.71	1	06/26/06
Endrin	ND	ug/Kg dry	6.71	1	06/26/06
Endrin Aldehyde	ND	ug/Kg dry	6.71	1	06/26/06
Endrin Ketone	ND	ug/Kg dry	6.71	1	06/26/06
gamma-BHC (Lindane)	ND	ug/Kg dry	6.71	1	06/26/06
gamma-Chlordane	ND	ug/Kg dry	6.71	1	06/26/06
Heptachlor	ND	ug/Kg dry	6.71	1	06/26/06
Heptachlor Epoxide	ND	ug/Kg dry	6.71	1	06/26/06
Hexachlorobenzene	ND	ug/Kg dry	6.71	1	06/26/06
Methoxychlor	ND	ug/Kg dry	6.71	1	06/26/06
Toxaphene	ND	ug/Kg dry	335	1	06/26/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	115 %		30-150
Surrogate: Decachlorobiphenyl [2C]	88 %		30-150
Surrogate: Tetrachloro-m-xylene	67 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	63 %		30-150

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1001  
Date Sampled: 06/22/06 09:45  
Percent Solids: 85  
Initial Volume: 21  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-16  
Sample Matrix: Soil  
Analyst: SEP  
Prepared: 06/23/06

### 8081A Organochlorine Pesticides

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
4,4'-DDD	ND	ug/Kg dry	5.60	1	06/26/06
4,4'-DDE	ND	ug/Kg dry	5.60	1	06/26/06
4,4'-DDT	ND	ug/Kg dry	5.60	1	06/26/06
Aldrin	ND	ug/Kg dry	5.60	1	06/26/06
alpha-BHC	ND	ug/Kg dry	5.60	1	06/26/06
alpha-Chlordane	ND	ug/Kg dry	5.60	1	06/26/06
beta-BHC	ND	ug/Kg dry	5.60	1	06/26/06
Chlordane (Total)	ND	ug/Kg dry	56.0	1	06/26/06
delta-BHC	ND	ug/Kg dry	5.60	1	06/26/06
Dieldrin	ND	ug/Kg dry	5.60	1	06/26/06
Endosulfan I	ND	ug/Kg dry	5.60	1	06/26/06
Endosulfan II	ND	ug/Kg dry	5.60	1	06/26/06
Endosulfan Sulfate	ND	ug/Kg dry	5.60	1	06/26/06
Endrin	ND	ug/Kg dry	5.60	1	06/26/06
Endrin Aldehyde	ND	ug/Kg dry	5.60	1	06/26/06
Endrin Ketone	ND	ug/Kg dry	5.60	1	06/26/06
gamma-BHC (Lindane)	ND	ug/Kg dry	5.60	1	06/26/06
gamma-Chlordane	ND	ug/Kg dry	5.60	1	06/26/06
Heptachlor	ND	ug/Kg dry	5.60	1	06/26/06
Heptachlor Epoxide	ND	ug/Kg dry	5.60	1	06/26/06
Hexachlorobenzene	ND	ug/Kg dry	5.60	1	06/26/06
Methoxychlor	ND	ug/Kg dry	5.60	1	06/26/06
Toxaphene	ND	ug/Kg dry	280	1	06/26/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	127 %		30-150
Surrogate: Decachlorobiphenyl [2C]	94 %		30-150
Surrogate: Tetrachloro-m-xylene	83 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	76 %		30-150

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
 Client Project ID: Providence Gorham Site  
 Client Sample ID: SED1101  
 Date Sampled: 06/22/06 10:15  
 Percent Solids: 15  
 Initial Volume: 19  
 Final Volume: 10  
 Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
 ESS Laboratory Sample ID: 0606373-18  
 Sample Matrix: Soil  
 Analyst: SEP  
 Prepared: 06/23/06

### 8081A Organochlorine Pesticides

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
4,4'-DDD	ND	ug/Kg dry	35.1	1	06/26/06
4,4'-DDE	ND	ug/Kg dry	35.1	1	06/26/06
4,4'-DDT	ND	ug/Kg dry	35.1	1	06/26/06
Aldrin	ND	ug/Kg dry	35.1	1	06/26/06
alpha-BHC	ND	ug/Kg dry	35.1	1	06/26/06
alpha-Chlordane	ND	ug/Kg dry	35.1	1	06/26/06
beta-BHC	ND	ug/Kg dry	35.1	1	06/26/06
Chlordane (Total)	ND	ug/Kg dry	35.1	1	06/26/06
delta-BHC	ND	ug/Kg dry	35.1	1	06/26/06
Dieldrin	ND	ug/Kg dry	35.1	1	06/26/06
Endosulfan I	ND	ug/Kg dry	35.1	1	06/26/06
Endosulfan II	ND	ug/Kg dry	35.1	1	06/26/06
Endosulfan Sulfate	ND	ug/Kg dry	35.1	1	06/26/06
Endrin	ND	ug/Kg dry	35.1	1	06/26/06
Endrin Aldehyde	ND	ug/Kg dry	35.1	1	06/26/06
Endrin Ketone	ND	ug/Kg dry	35.1	1	06/26/06
gamma-BHC (Lindane)	ND	ug/Kg dry	35.1	1	06/26/06
gamma-Chlordane	ND	ug/Kg dry	35.1	1	06/26/06
Heptachlor	ND	ug/Kg dry	35.1	1	06/26/06
Heptachlor Epoxide	ND	ug/Kg dry	35.1	1	06/26/06
Hexachlorobenzene	ND	ug/Kg dry	35.1	1	06/26/06
Methoxychlor	ND	ug/Kg dry	35.1	1	06/26/06
Toxaphene	ND	ug/Kg dry	1750	1	06/26/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	97 %		30-150
Surrogate: Decachlorobiphenyl [2C]	80 %		30-150
Surrogate: Tetrachloro-m-xylene	65 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	56 %		30-150



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
 Client Project ID: Providence Gorham Site  
 Client Sample ID: SED1201  
 Date Sampled: 06/22/06 11:01  
 Percent Solids: 45  
 Initial Volume: 19.9  
 Final Volume: 10  
 Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
 ESS Laboratory Sample ID: 0606373-20  
 Sample Matrix: Soil  
 Analyst: SEP  
 Prepared: 06/23/06

### 8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	P 21.4	ug/Kg dry	11.2	1	06/26/06
4,4'-DDE	ND	ug/Kg dry	11.2	1	06/26/06
4,4'-DDT	ND	ug/Kg dry	11.2	1	06/26/06
Aldrin	ND	ug/Kg dry	11.2	1	06/26/06
alpha-BHC	ND	ug/Kg dry	11.2	1	06/26/06
alpha-Chlordane	ND	ug/Kg dry	11.2	1	06/26/06
beta-BHC	ND	ug/Kg dry	11.2	1	06/26/06
Chlordane (Total)	ND	ug/Kg dry	11.2	1	06/26/06
delta-BHC	ND	ug/Kg dry	11.2	1	06/26/06
Dieldrin	ND	ug/Kg dry	11.2	1	06/26/06
Endosulfan I	ND	ug/Kg dry	11.2	1	06/26/06
Endosulfan II	ND	ug/Kg dry	11.2	1	06/26/06
Endosulfan Sulfate	ND	ug/Kg dry	11.2	1	06/26/06
Endrin	ND	ug/Kg dry	11.2	1	06/26/06
Endrin Aldehyde	ND	ug/Kg dry	11.2	1	06/26/06
Endrin Ketone	ND	ug/Kg dry	11.2	1	06/26/06
gamma-BHC (Lindane)	ND	ug/Kg dry	11.2	1	06/26/06
gamma-Chlordane	ND	ug/Kg dry	11.2	1	06/26/06
Heptachlor	ND	ug/Kg dry	11.2	1	06/26/06
Heptachlor Epoxide	ND	ug/Kg dry	11.2	1	06/26/06
Hexachlorobenzene	ND	ug/Kg dry	11.2	1	06/26/06
Methoxychlor	ND	ug/Kg dry	11.2	1	06/26/06
Toxaphene	ND	ug/Kg dry	558	1	06/26/06

Surrogate	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	83 %		30-150
Surrogate: Decachlorobiphenyl [2C]	80 %		30-150
Surrogate: Tetrachloro-m-xylene	67 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	60 %		30-150

# Pesticides Quality Control

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>5035/8260B Volatile Organic Compounds / Methanol</b>										
<b>Batch BF62806 - 5035</b>										
sec-Butylbenzene	27.1		ug/L	25.0		108	70-130	7	20	
Styrene	26.9		ug/L	25.0		108	70-130	5	20	
tert-Butylbenzene	27.2		ug/L	25.0		109	70-130	7	20	
Tertiary-amyl methyl ether	26.5		ug/L	25.0		106	70-130	6	20	
Tetrachloroethene	25.2		ug/L	25.0		101	70-130	7	20	
Tetrahydrofuran	22.6		ug/L	25.0		90	70-130	2	20	
Toluene	26.5		ug/L	25.0		106	70-130	6	20	
trans-1,2-Dichloroethene	27.0		ug/L	25.0		108	70-130	6	20	
trans-1,3-Dichloropropene	21.9		ug/L	25.0		88	70-130	5	20	
Trichloroethene	25.7		ug/L	25.0		103	70-130	7	20	
Trichlorofluoromethane	24.2		ug/L	25.0		97	70-130	7	20	
Vinyl Acetate	22.7		ug/L	25.0		91	70-130	6	20	
Vinyl Chloride	25.9		ug/L	25.0		104	70-130	6	20	
Xylene O	27.3		ug/L	25.0		109	70-130	7	20	
Xylene P,M	53.2		ug/L	50.0		106	70-130	4	20	
Surrogate: 1,2-Dichloroethane-d4	2380		ug/Kg wet	2500		95	70-130			
Surrogate: 4-Bromofluorobenzene	2500		ug/Kg wet	2500		100	70-130			
Surrogate: Dibromofluoromethane	2530		ug/Kg wet	2500		101	70-130			
Surrogate: Toluene-d8	2630		ug/Kg wet	2500		105	70-130			

### 8081A Organochlorine Pesticides

#### Batch BF62723 - 3541

Blank			
4,4'-DDD	ND	5.00	ug/Kg wet
4,4'-DDE	ND	5.00	ug/Kg wet
4,4'-DDT	ND	5.00	ug/Kg wet
Aldrin	ND	5.00	ug/Kg wet
alpha-BHC	ND	5.00	ug/Kg wet
alpha-Chlordane	ND	5.00	ug/Kg wet
beta-BHC	ND	5.00	ug/Kg wet
Chlordane (Total)	ND	50.0	ug/Kg wet
delta-BHC	ND	5.00	ug/Kg wet
Dieldrin	ND	5.00	ug/Kg wet
Endosulfan I	ND	5.00	ug/Kg wet
Endosulfan II	ND	5.00	ug/Kg wet
Endosulfan Sulfate	ND	5.00	ug/Kg wet
Endrin	ND	5.00	ug/Kg wet
Endrin Aldehyde	ND	5.00	ug/Kg wet
Endrin Ketone	ND	5.00	ug/Kg wet
gamma-BHC (Lindane)	ND	5.00	ug/Kg wet
gamma-Chlordane	ND	5.00	ug/Kg wet
Heptachlor	ND	5.00	ug/Kg wet
Heptachlor Epoxide	ND	5.00	ug/Kg wet
Hexachlorobenzene	ND	5.00	ug/Kg wet
Methoxychlor	ND	5.00	ug/Kg wet
Toxaphene	ND	250	ug/Kg wet

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8081A Organochlorine Pesticides

Batch BF62723 - 3541

Surrogate: Decachlorobiphenyl	34.7		ug/Kg wet	25.0		139	30-150			
Surrogate: Decachlorobiphenyl [2C]	30.8		ug/Kg wet	25.0		123	30-150			
Surrogate: Tetrachloro-m-xylene	23.6		ug/Kg wet	25.0		94	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	21.6		ug/Kg wet	25.0		86	30-150			

#### LCS

4,4'-DDD	27.8	5.00	ug/Kg wet	25.0		111	40-140			
4,4'-DDE	27.2	5.00	ug/Kg wet	25.0		109	40-140			
4,4'-DDT	34.5	5.00	ug/Kg wet	25.0		138	40-140			
Aldrin	24.3	5.00	ug/Kg wet	25.0		97	40-140			
alpha-BHC	22.7	5.00	ug/Kg wet	25.0		91	40-140			
alpha-Chlordane	27.1	5.00	ug/Kg wet	25.0		108	40-140			
beta-BHC	25.1	5.00	ug/Kg wet	25.0		100	40-140			
delta-BHC	16.6	5.00	ug/Kg wet	25.0		66	40-140			
Dieldrin	29.3	5.00	ug/Kg wet	25.0		117	40-140			
Endosulfan I	30.3	5.00	ug/Kg wet	25.0		121	40-140			
Endosulfan II	28.6	5.00	ug/Kg wet	25.0		114	40-140			
Endosulfan Sulfate	28.5	5.00	ug/Kg wet	25.0		114	40-140			
Endrin	29.3	5.00	ug/Kg wet	25.0		117	40-140			
Endrin Aldehyde	34.3	5.00	ug/Kg wet	25.0		137	40-140			
Endrin Ketone	31.5	5.00	ug/Kg wet	25.0		126	40-140			
gamma-BHC (Lindane)	24.9	5.00	ug/Kg wet	25.0		100	40-140			
gamma-Chlordane	32.9	5.00	ug/Kg wet	25.0		132	40-140			
Heptachlor	24.2	5.00	ug/Kg wet	25.0		97	40-140			
Heptachlor Epoxide	29.1	5.00	ug/Kg wet	25.0		116	40-140			
Hexachlorobenzene	11.9	5.00	ug/Kg wet	25.0		48	40-140			
Methoxychlor	32.6	5.00	ug/Kg wet	25.0		130	40-140			

Surrogate: Decachlorobiphenyl	35.2		ug/Kg wet	25.0		141	30-150			
Surrogate: Decachlorobiphenyl [2C]	28.3		ug/Kg wet	25.0		113	30-150			
Surrogate: Tetrachloro-m-xylene	22.3		ug/Kg wet	25.0		89	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	21.6		ug/Kg wet	25.0		86	30-150			

#### LCS Dup

4,4'-DDD	28.9	5.00	ug/Kg wet	25.0		116	40-140	4	30	
4,4'-DDE	27.2	5.00	ug/Kg wet	25.0		109	40-140	0	30	
4,4'-DDT	33.7	5.00	ug/Kg wet	25.0		135	40-140	2	30	
Aldrin	25.9	5.00	ug/Kg wet	25.0		104	40-140	6	30	
alpha-BHC	22.5	5.00	ug/Kg wet	25.0		90	40-140	0.9	30	
alpha-Chlordane	25.8	5.00	ug/Kg wet	25.0		103	40-140	5	30	
beta-BHC	27.3	5.00	ug/Kg wet	25.0		109	40-140	8	30	
delta-BHC	18.5	5.00	ug/Kg wet	25.0		74	40-140	11	30	
Dieldrin	25.9	5.00	ug/Kg wet	25.0		104	40-140	12	30	
Endosulfan I	29.1	5.00	ug/Kg wet	25.0		116	40-140	4	30	
Endosulfan II	31.4	5.00	ug/Kg wet	25.0		126	40-140	9	30	
Endosulfan Sulfate	25.1	5.00	ug/Kg wet	25.0		100	40-140	13	30	
Endrin	27.1	5.00	ug/Kg wet	25.0		108	40-140	8	30	
Endrin Aldehyde	30.5	5.00	ug/Kg wet	25.0		122	40-140	12	30	

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8081A Organochlorine Pesticides

##### Batch BF62723 - 3541

Endrin Ketone	28.9	5.00	ug/Kg wet	25.0		116	40-140	9	30	
gamma-BHC (Lindane)	24.1	5.00	ug/Kg wet	25.0		96	40-140	3	30	
gamma-Chlordane	29.9	5.00	ug/Kg wet	25.0		120	40-140	10	30	
Heptachlor	24.7	5.00	ug/Kg wet	25.0		99	40-140	2	30	
Heptachlor Epoxide	27.5	5.00	ug/Kg wet	25.0		110	40-140	6	30	
Hexachlorobenzene	11.0	5.00	ug/Kg wet	25.0		44	40-140	8	30	
Methoxychlor	33.0	5.00	ug/Kg wet	25.0		132	40-140	1	30	

Surrogate: Decachlorobiphenyl	32.8		ug/Kg wet	25.0		131	30-150			
Surrogate: Decachlorobiphenyl [2C]	26.1		ug/Kg wet	25.0		104	30-150			
Surrogate: Tetrachloro-m-xylene	22.1		ug/Kg wet	25.0		88	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	20.1		ug/Kg wet	25.0		80	30-150			

##### Matrix Spike Source: 0606373-16

4,4'-DDD	26.1	5.60	ug/Kg dry	28.0	ND	93	30-150			
4,4'-DDE	23.0	5.60	ug/Kg dry	28.0	ND	82	30-150			
4,4'-DDT	26.7	5.60	ug/Kg dry	28.0	ND	95	30-150			
Aldrin	21.9	5.60	ug/Kg dry	28.0	ND	78	30-150			
alpha-BHC	26.7	5.60	ug/Kg dry	28.0	ND	95	30-150			
alpha-Chlordane	23.1	5.60	ug/Kg dry	28.0	ND	82	30-150			
beta-BHC	26.8	5.60	ug/Kg dry	28.0	ND	96	30-150			
delta-BHC	17.5	5.60	ug/Kg dry	28.0	ND	62	30-150			
Dieldrin	24.5	5.60	ug/Kg dry	28.0	ND	88	30-150			
Endosulfan I	25.3	5.60	ug/Kg dry	28.0	ND	90	30-150			
Endosulfan II	22.0	5.60	ug/Kg dry	28.0	ND	79	30-150			
Endosulfan Sulfate	22.5	5.60	ug/Kg dry	28.0	ND	80	30-150			
Endrin	24.2	5.60	ug/Kg dry	28.0	ND	86	30-150			
Endrin Aldehyde	24.2	5.60	ug/Kg dry	28.0	ND	86	30-150			
Endrin Ketone	27.0	5.60	ug/Kg dry	28.0	ND	96	30-150			
gamma-BHC (Lindane)	25.2	5.60	ug/Kg dry	28.0	ND	90	30-150			
gamma-Chlordane	28.2	5.60	ug/Kg dry	28.0	ND	101	30-150			
Heptachlor	21.2	5.60	ug/Kg dry	28.0	ND	76	30-150			
Heptachlor Epoxide	23.1	5.60	ug/Kg dry	28.0	ND	82	30-150			
Hexachlorobenzene	19.0	5.60	ug/Kg dry	28.0	ND	68	30-150			
Methoxychlor	29.7	5.60	ug/Kg dry	28.0	ND	106	30-150			

Surrogate: Decachlorobiphenyl	29.9		ug/Kg dry	28.0		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	26.3		ug/Kg dry	28.0		94	30-150			
Surrogate: Tetrachloro-m-xylene	21.1		ug/Kg dry	28.0		75	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	20.3		ug/Kg dry	28.0		72	30-150			

##### Matrix Spike Dup Source: 0606373-16

4,4'-DDD	24.1	5.85	ug/Kg dry	29.3	ND	82	30-150	8	30	
4,4'-DDE	27.3	5.85	ug/Kg dry	29.3	ND	93	30-150	17	30	
4,4'-DDT	30.1	5.85	ug/Kg dry	29.3	ND	103	30-150	12	30	
Aldrin	25.3	5.85	ug/Kg dry	29.3	ND	86	30-150	14	30	
alpha-BHC	25.8	5.85	ug/Kg dry	29.3	ND	88	30-150	3	30	
alpha-Chlordane	27.3	5.85	ug/Kg dry	29.3	ND	93	30-150	17	30	
beta-BHC	26.5	5.85	ug/Kg dry	29.3	ND	90	30-150	1	30	

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8081A Organochlorine Pesticides

##### Batch BF62723 - 3541

delta-BHC	19.7	5.85	ug/Kg dry	29.3	ND	67	30-150	12	30	
Dieldrin	28.0	5.85	ug/Kg dry	29.3	ND	96	30-150	13	30	
Endosulfan I	28.6	5.85	ug/Kg dry	29.3	ND	98	30-150	12	30	
Endosulfan II	30.3	5.85	ug/Kg dry	29.3	ND	103	30-150	32	30	
Endosulfan Sulfate	30.5	5.85	ug/Kg dry	29.3	ND	104	30-150	30	30	+
Endrin	29.1	5.85	ug/Kg dry	29.3	ND	99	30-150	18	30	
Endrin Aldehyde	33.8	5.85	ug/Kg dry	29.3	ND	115	30-150	33	30	+
Endrin Ketone	31.3	5.85	ug/Kg dry	29.3	ND	107	30-150	15	30	
gamma-BHC (Lindane)	23.0	5.85	ug/Kg dry	29.3	ND	78	30-150	9	30	
gamma-Chlordane	30.7	5.85	ug/Kg dry	29.3	ND	105	30-150	8	30	
Heptachlor	24.5	5.85	ug/Kg dry	29.3	ND	84	30-150	14	30	
Heptachlor Epoxide	25.8	5.85	ug/Kg dry	29.3	ND	88	30-150	11	30	
Hexachlorobenzene	23.4	5.85	ug/Kg dry	29.3	ND	80	30-150	21	30	
Methoxychlor	33.3	5.85	ug/Kg dry	29.3	ND	114	30-150	11	30	

Surrogate: Decachlorobiphenyl	35.2		ug/Kg dry	29.3		120	30-150			
Surrogate: Decachlorobiphenyl [2C]	30.4		ug/Kg dry	29.3		104	30-150			
Surrogate: Tetrachloro-m-xylene	24.9		ug/Kg dry	29.3		85	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	21.6		ug/Kg dry	29.3		74	30-150			

#### 8082 Polychlorinated Biphenyls (PCB)

##### Batch BF62329 - 3541

##### Blank

Aroclor 1016	ND	33.3	ug/Kg wet							
Aroclor 1221	ND	33.3	ug/Kg wet							
Aroclor 1232	ND	33.3	ug/Kg wet							
Aroclor 1242	ND	33.3	ug/Kg wet							
Aroclor 1248	ND	33.3	ug/Kg wet							
Aroclor 1254	ND	33.3	ug/Kg wet							
Aroclor 1260	ND	33.3	ug/Kg wet							
Aroclor 1262	ND	33.3	ug/Kg wet							
Aroclor 1268	ND	33.3	ug/Kg wet							

Surrogate: Decachlorobiphenyl	17.3		ug/Kg wet	16.7		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	16.9		ug/Kg wet	16.7		101	30-150			
Surrogate: Tetrachloro-m-xylene	14.6		ug/Kg wet	16.7		87	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	14.9		ug/Kg wet	16.7		89	30-150			

##### LCS

Aroclor 1016	328	33.3	ug/Kg wet	333		98	40-140			
Aroclor 1260	349	33.3	ug/Kg wet	333		105	40-140			

Surrogate: Decachlorobiphenyl	17.5		ug/Kg wet	16.7		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	17.2		ug/Kg wet	16.7		103	30-150			
Surrogate: Tetrachloro-m-xylene	15.5		ug/Kg wet	16.7		93	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	15.3		ug/Kg wet	16.7		92	30-150			

##### LCS Dup

Aroclor 1016	333	33.3	ug/Kg wet	333		100	40-140	2	50	
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# Pesticides Calibration Data

## ANALYSIS SEQUENCE

BPG0249

Instrument: SVOAGC6

Calibration ID: UNASSIGNED

8081EH

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0249-PEM1	QC		1		6E02036		
BPG0249-CAL1	QC		2		6E30081		
BPG0249-CAL2	QC		3		6E30082		
BPG0249-CAL3	QC		4		6E30083		
BPG0249-CAL4	QC		5		6E30084		
BPG0249-CAL5	QC		6		6E30085		
BPG0249-CAL6	QC		7		6E30086		
BPG0249-CAL7	QC		8		6E30087		
BPG0249-SCV1	QC		9		6E30089		

Samples Loaded By

Date

Data Processed By

Date



ESS LABORATORY  
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/21/06	GE062066-1	1	Prime	8081EG		SR
	2	2	Pen	↓	high baseline.	
	3	3	Pest Spcb	↓		
	GE0621CA	1	Prime	8081EH		
	2	2	Pen	✓		03:32 PM
	3	3	Pest Spcb	✓	6F21084 CALI	
	4	4	10ppb	✓	087 2	
	5	5	20ppb	✓	088 3	
	6	6	50ppb	✓	089 4	
	7	7	60ppb	✓	090 5	
	8	8	80ppb	✓	091 6 Threshold set	
	9	9	100ppb	✓	092 7	
	10	10	SS	↓	093	
	11	11	Pest SS	✓	6F21094 SCVI	
	12	12	BFG1910-BIK1	✓		
	13	13	BS1	✓		
	14	14	BS01	✓		
	15	15	0606233-01	✓		
	16	16	01MS	✓		
	17	17	02 <del>MS</del>	✓		
	18	18	03	✓		
	19	19	04	✓		
	20	20	05	✓		
	21	21	06	✓		
	22	22	Hexane			↓
6/21/06	GE0621CA 23	23	Pest 20 ppb	8081EH	6F21085	01:21 AM SR

CONTROL NUMBER 60.0012-0602A

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**ESS LABORATORY**  
**GC 3 Front/Rear RUN LOG**

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/21/06	23	GE06216A-23	Pest 20 ppb	8081EH	6F21085	JR
↓	27	↓ 27	Chlor 250 ppb ✓	↓	6F21095	↓
6/21/06	25	↓ 25	Tox 2500 ppb ✓	8081EH	6F21096	SR
6/21/06	26	GE06216A-26	Pest MS 6F21098 ✓	8081EH		SR
6/22/06	1	GE062200-1	Prime	8081EH		SR
	2	↓ 2	Pem ✓			
	3	↓ 3	Pest 50 cc ✓			
	3	↓ 3	Pest 50 cc			
	4	↓ 4	BFG 1422-BIK1			
	5	↓ 5	↓ BSI			
	6	↓ 6	↓ BSD1			
	7	↓ 7	0606200-01			
	8	↓ 8	02			
	9	↓ 9	02MS			
	10	↓ 10	02MSD			
	11	↓ 11	03			
	12	↓ 12	03MS			
	13	↓ 13	03MSD			
	14	↓ 14	04			
	15	↓ 15	05			
	16	↓ 16	06			
	17	↓ 17	07			
	18	↓ 18	07MS			
	19	↓ 19	07MSD			
	20	↓ 20	↓ 08			
6/22/06	21	GE062200-21	0606200-09	8081EH		SR

CONTROL NUMBER 60.0012-0602A

PAGE \_\_\_\_\_

Signal #1 : Q:\SVOA\GC3\_GE\DATA\GE06216A\002F0101.D Vial: 2  
 Signal #2 : Q:\SVOA\GC3\_GE\DATA\GE06216A\002R0101.D\002R0101.D  
 Acq On : 21 Jun 06 03:32 PM Operator: [GC]2R0101.D\DATA.MS  
 Sample : PEM Inst : GC3  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 22 7:28 19106

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Title :  
 Last Update : Thu Jun 22 06:59:52 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 3 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xylen	7.65	8.77	2882628	1075954	47.270	49.039
			Recovery	=	94.54%	98.08%
23) S Decachlorobiphenyl	18.14	20.79	1742144	864520	38.565m	36.560
			Recovery	=	77.13%	73.12%
Target Compounds						
2) M Hexachlorobenzene	0.00	0.00	0	0	N.D.d	N.D.d
3) M alpha-BHC	0.00	0.00	0	0	N.D.d	N.D.d
4) M gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.d	N.D.d
5) M beta-BHC	0.00	0.00	0	0	N.D.d	N.D.d
6) M delta-BHC	0.00	0.00	0	0	N.D.d	N.D.d
7) M Heptachlor	0.00	0.00	0	0	N.D.d	N.D.d
8) M Aldrin	0.00	0.00	0	0	N.D.d	N.D.d
9) M Heptachlor Epoxide	0.00	0.00	0	0	N.D.d	N.D.d
10) M gamma-Chlordane	0.00	0.00	0	0	N.D.d	N.D.d
11) M alpha-Chlordane	0.00	0.00	0	0	N.D.d	N.D.d
12) M 4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13) M Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
14) M Dieldrin	0.00	0.00	0	0	N.D.	N.D.
15) M Endrin	14.06	15.37	4811339	1683303	117.714m	108.165m
16) M 4,4'-DDD	14.17	15.49	114493	46650	3.305m	5.002m#
17) M Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18) M 4,4'-DDT	14.61	16.00	4127673	1612906	106.239	113.549
19) M Endrin Aldehyde	15.16	0.00	10512	0	1.231m	N.D.d#
20) M Methoxychlor	0.00	0.00	0	0	N.D.d	N.D.d
21) M Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22) M Endrin Ketone	16.36	17.85	15292	7242	1.562m	2.756m#

$$\Sigma \frac{25804}{4837173} = 0.533\% \text{ DDT} \quad \frac{114493}{4242166} = 2.69\%$$

$$\Sigma \frac{7242}{1690545} = 0.43\% \text{ DDT} \quad \frac{46650}{1659556} = 2.80\%$$

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Title :  
 Last Update : Thu Jun 22 06:59:52 2006  
 Response via : Initial Calibration

## Calibration Files

10 =004F0101.D 20 =005F0101.D 5 =003F0101.D  
 60 =007F0101.D = 100 =009F0101.D

	Compound	10	20	5	60	100	Avg		%RSD
1) S	Tetrachloro-m-xylen	51.0	62.9	55.4	63.0	60.2	61.8	59.0 E3	8.21
2) M	Hexachlorobenzene	93.2	105.8	95.6	102.3	91.7	99.0	97.9 E3	5.58
3) M	alpha-BHC	57.2	68.9	58.7	77.2	73.4	74.2	68.3 E3	12.36
4) M	gamma-BHC (Lindane)	54.7	64.8	60.0	72.5	67.8	68.5	64.7 E3	9.96
5) M	beta-BHC	28.9	35.3	31.1	36.9	34.4	36.0	33.8 E3	9.14
6) M	delta-BHC	49.9	61.8	53.4	71.6	67.4	68.4	62.1 E3	14.11
7) M	Heptachlor	50.1	59.9	52.1	65.8	61.5	62.6	58.7 E3	10.59
8) M	Aldrin	53.1	60.6	53.4	63.7	59.6	61.9	58.7 E3	7.61
9) M	Heptachlor Epoxide	49.6	56.1	51.8	59.0	55.1	59.2	55.1 E3	7.02
10) M	gamma-Chlordane	46.3	59.8	50.0	59.9	56.4	59.5	55.3 E3	10.50
11) M	alpha-Chlordane	49.3	57.8	52.1	56.5	53.1	55.7	54.1 E3	5.88
12) M	4,4'-DDE	46.9	55.0	56.5	56.5	53.3	55.0	53.9 E3	6.74
13) M	Endosulfan I	46.9	55.2	54.6	57.6	56.4	55.8	54.4 E3	7.03
14) M	Dieldrin	45.5	51.9	48.0	54.9	52.0	53.3	50.9 E3	6.88
15) M	Endrin	34.6	39.6	36.1	42.8	40.0	41.3	39.1 E3	8.04
16) M	4,4'-DDD	38.0	44.3	34.8	47.8	45.1	45.8	42.6 E3	11.86
17) M	Endosulfan II	36.2	43.2	41.9	47.7	44.6	45.7	43.2 E3	9.20
18) M	4,4'-DDT	27.7	34.4	31.1	40.4	38.0	39.2	35.1 E3	14.16
19) M	Endrin Aldehyde	30.1	34.6	30.9	37.5	36.0	36.2	34.2 E3	8.93
20) M	Methoxychlor	14.3	17.2	18.1	22.0	20.6	20.5	18.8 E3	15.03
21) M	Endosulfan Sulfate	41.2	39.9	30.7	43.7	41.4	42.3	39.8 E3	11.72
22) M	Endrin Ketone	38.1	47.1	34.8	51.5	48.7	49.3	44.9 E3	15.13
23) S	Decachlorobiphenyl	37.2	47.5	39.9	47.4	43.5	46.8	43.7 E3	9.95

Used  
Linear  
Curve

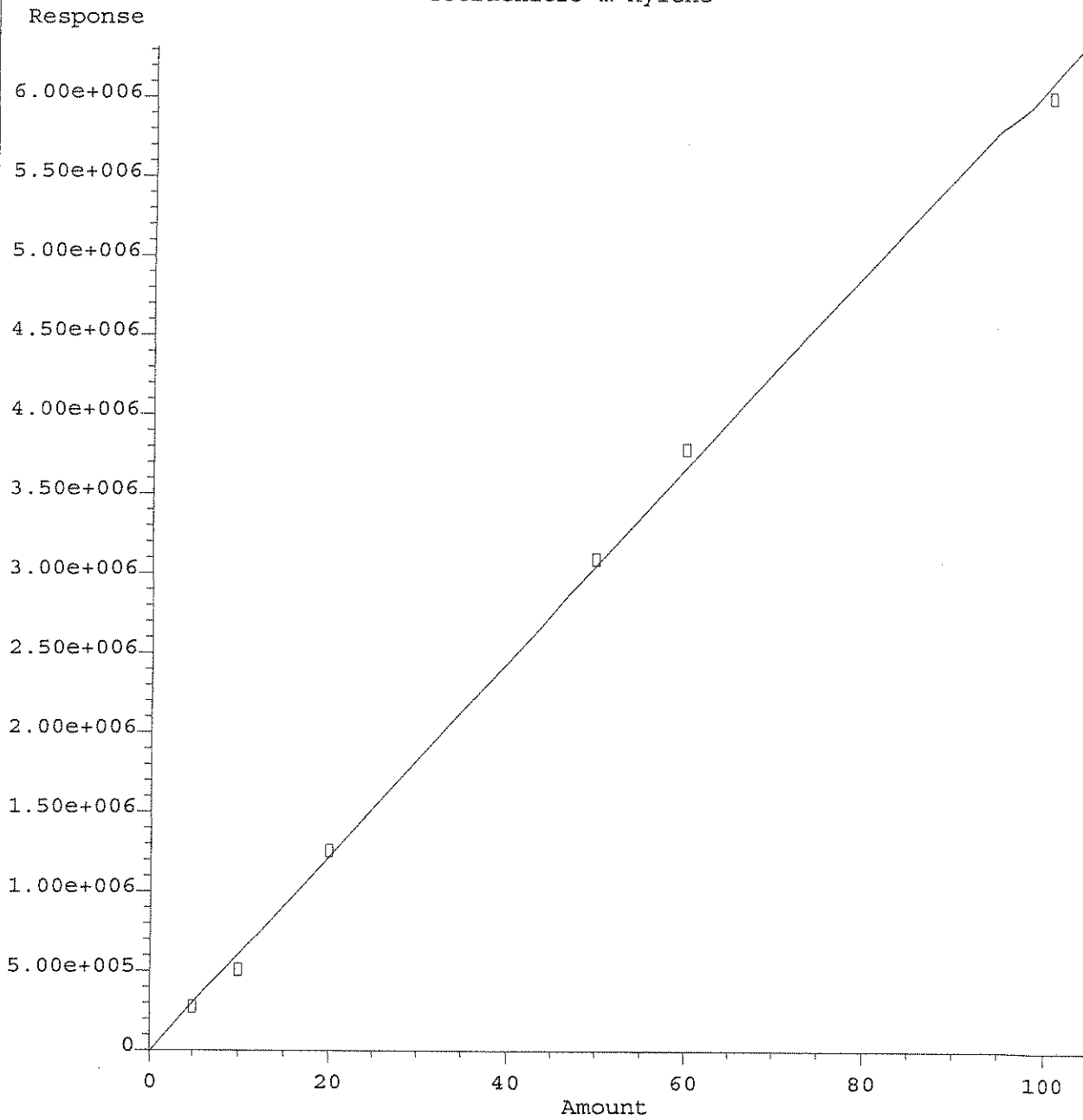
## Signal #2 Calibration Files

10 =004R0101.D 20 =005R0101.D 5 =003R0101.D  
 60 =007R0101.D = 100 =009R0101.D

	Compound	10	20	5	60	100	Avg		%RSD
1) S	Tetrachloro-m-xylen	17.8	21.1	19.3	23.1	21.6	22.3	20.9 E3	9.56
2) M	Hexachlorobenzene	34.9	38.5	35.4	39.7	35.9	38.8	37.2 E3	5.42
3) M	alpha-BHC	15.6	20.8	15.7	28.3	28.2	26.3	22.5 E3	26.50
4) M	gamma-BHC (Lindane)	16.2	20.9	16.8	26.9	26.3	25.2	22.1 E3	21.61
5) M	beta-BHC	11.6	12.6	11.5	14.3	13.5	13.6	12.9 E3	8.86
6) M	delta-BHC	15.0	19.6	15.9	26.3	25.8	24.4	21.2 E3	23.75
7) M	Heptachlor	16.0	19.9	17.8	24.4	23.7	22.8	20.8 E3	16.45
8) M	Aldrin	16.6	20.0	17.7	24.0	23.3	22.8	20.8 E3	14.94
9) M	Heptachlor Epoxide	17.7	20.4	21.6	23.2	22.1	22.2	21.2 E3	9.24
10) M	gamma-Chlordane	18.0	21.0	18.9	23.5	22.3	22.6	21.1 E3	10.34
11) M	alpha-Chlordane	18.4	21.6	19.7	23.8	22.4	22.9	21.5 E3	9.52
12) M	4,4'-DDE	16.5	19.8	17.5	23.0	21.9	21.8	20.1 E3	13.04
13) M	Endosulfan I	15.7	18.7	15.7	21.7	20.7	20.6	18.9 E3	13.86
14) M	Dieldrin	15.0	18.0	15.4	21.6	21.0	20.4	18.6 E3	15.40
15) M	Endrin	10.6	12.7	12.5	15.7	15.5	14.7	13.6 E3	14.66
16) M	4,4'-DDD	12.4	15.0	13.2	18.0	17.6	16.9	15.5 E3	15.15
17) M	Endosulfan II	16.2	19.1	19.8	20.8	19.5	20.5	19.3 E3	8.61
18) M	4,4'-DDT	6.8	9.5	6.6	14.0	14.2	12.6	10.6 E3	32.81
19) M	Endrin Aldehyde	13.9	16.1	14.7	17.7	16.4	16.9	15.9 E3	8.82
20) M	Methoxychlor	5.5	6.9	5.1	9.6	9.2	8.8	7.5 E3	25.85
21) M	Endosulfan Sulfate	14.1	16.6	14.8	18.7	17.9	17.8	16.7 E3	10.99
22) M	Endrin Ketone	15.1	20.0	16.7	23.5	23.3	23.5	20.3 E3	18.31
23) S	Decachlorobiphenyl	21.7	24.7	24.2	24.7	22.7	23.9	23.6 E3	5.09

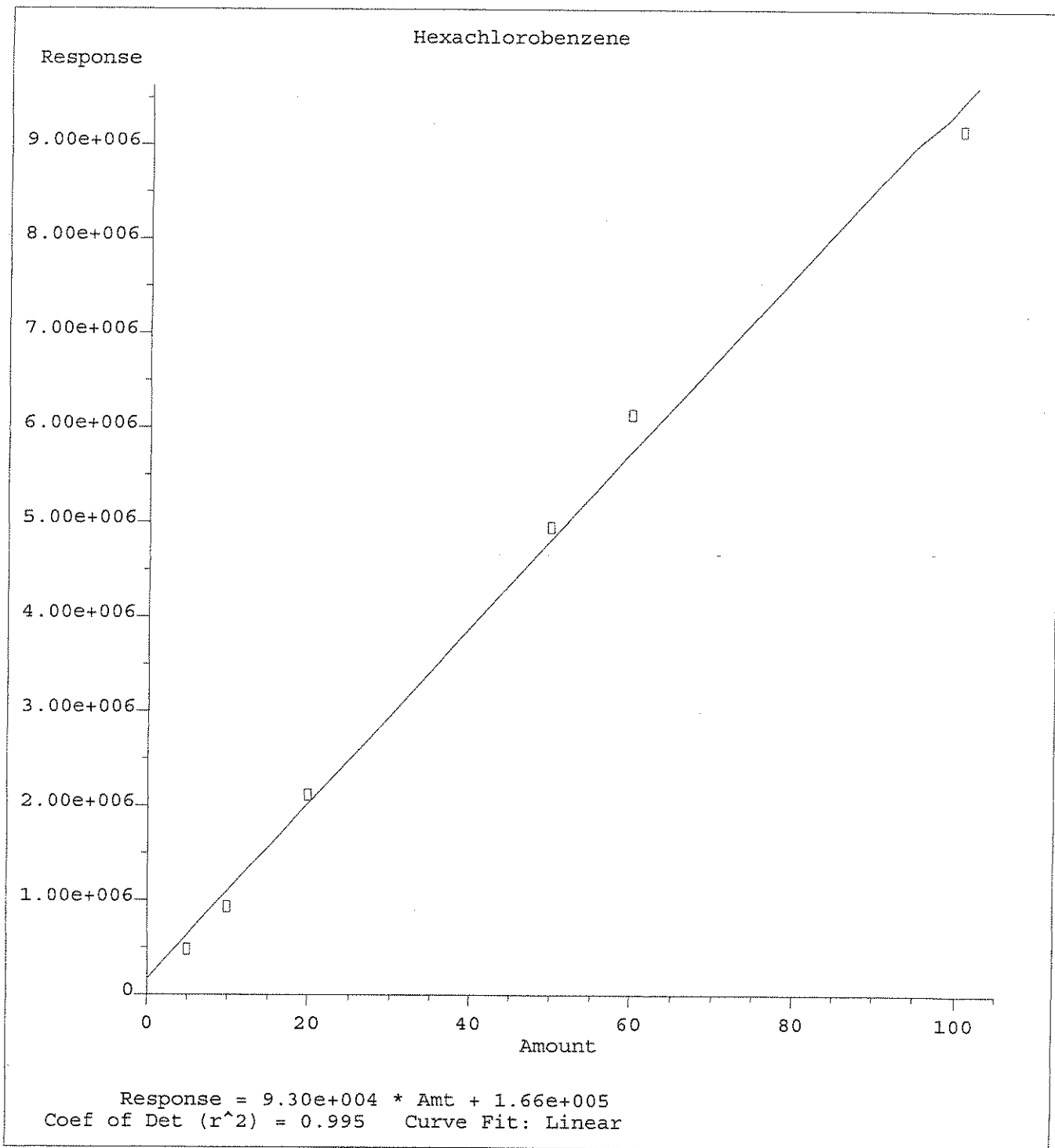
(#) = Out of Range ### Number of calibration levels exceeded format ###  
 8081EH.M Thu Jun 22 07:32:42 2006

Tetrachloro-m-xylene

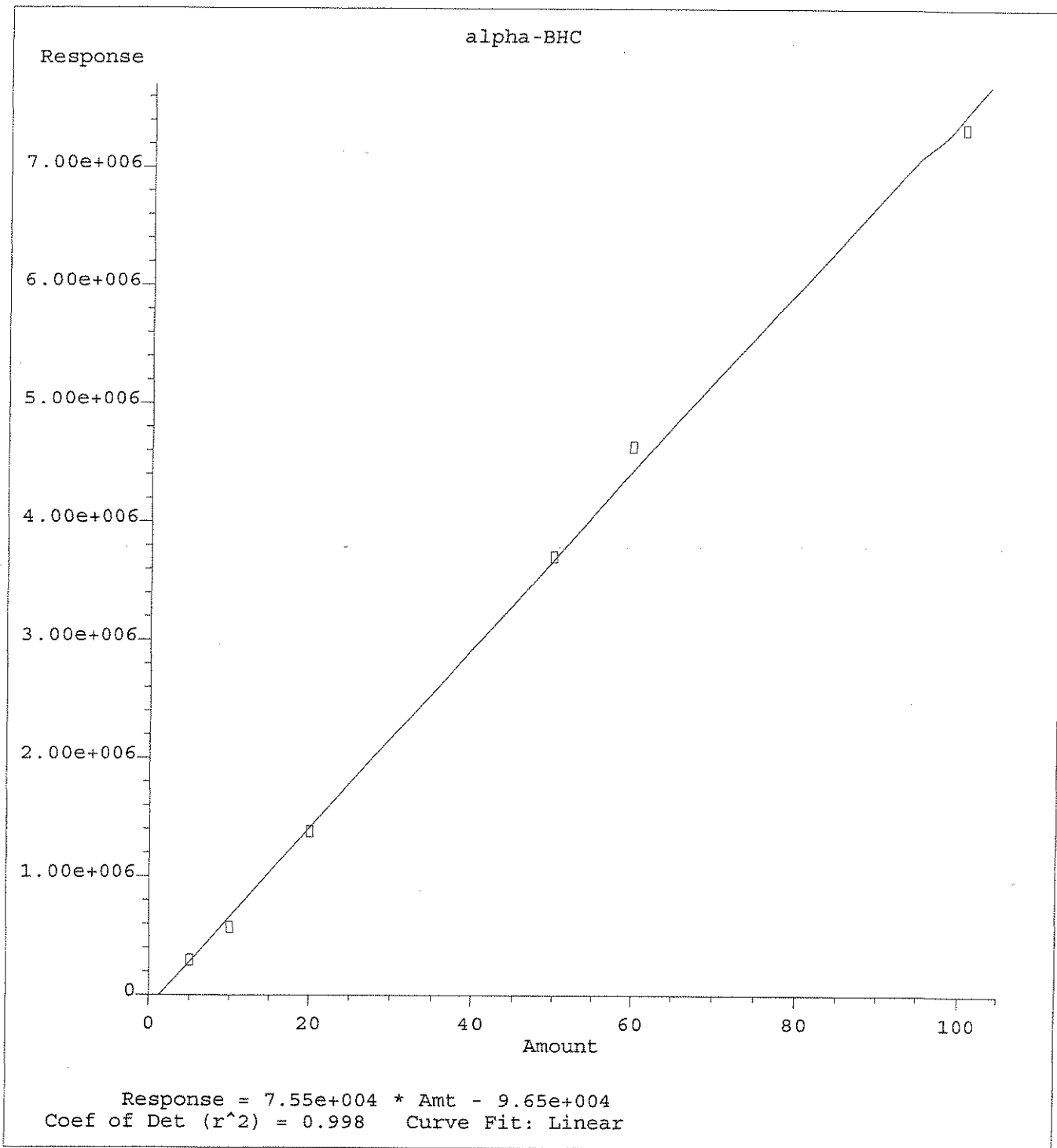


Response = 6.12e+004 \* Amt - 8.47e+003  
Coef of Det (r^2) = 0.999    Curve Fit: Linear

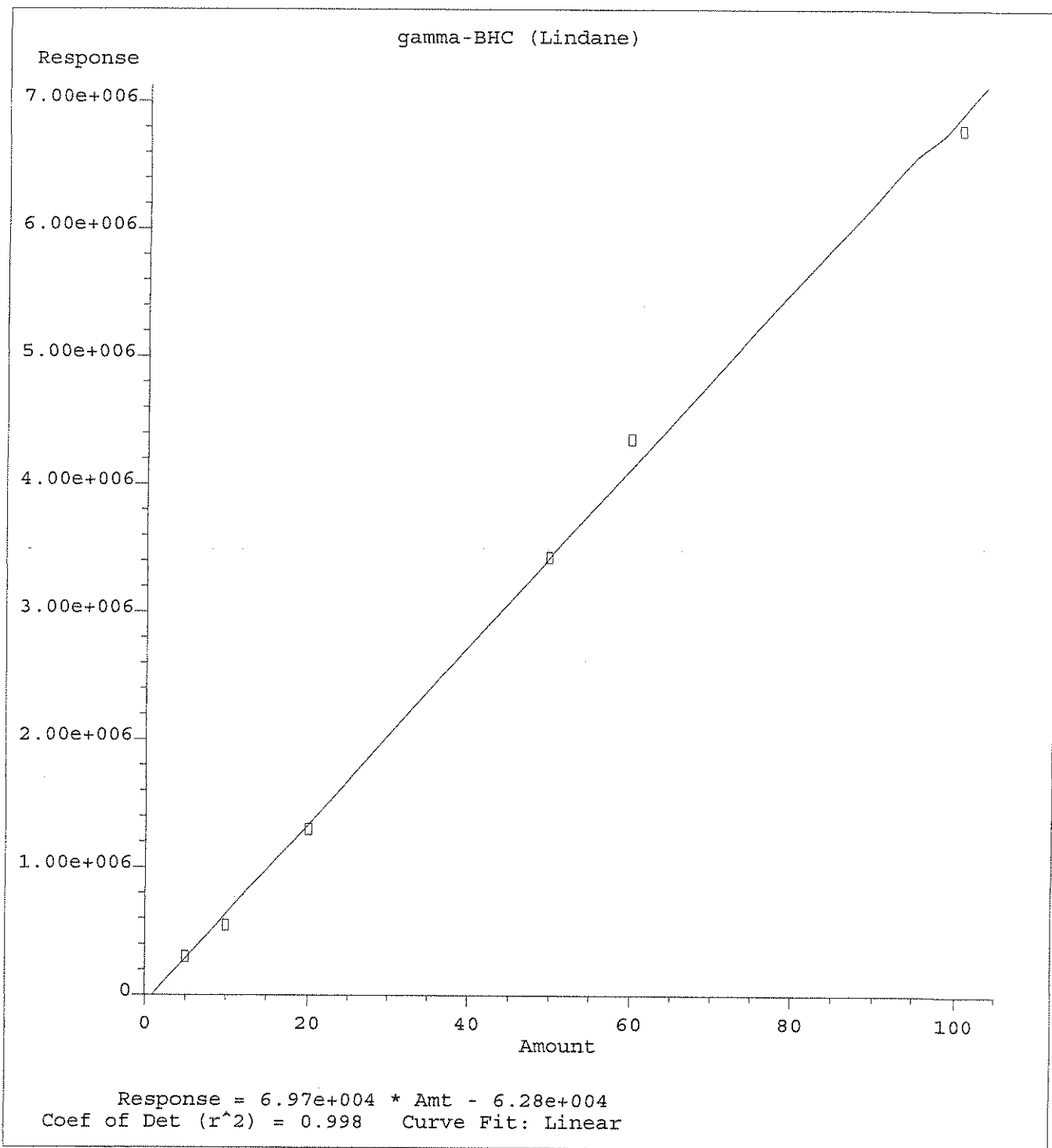
Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

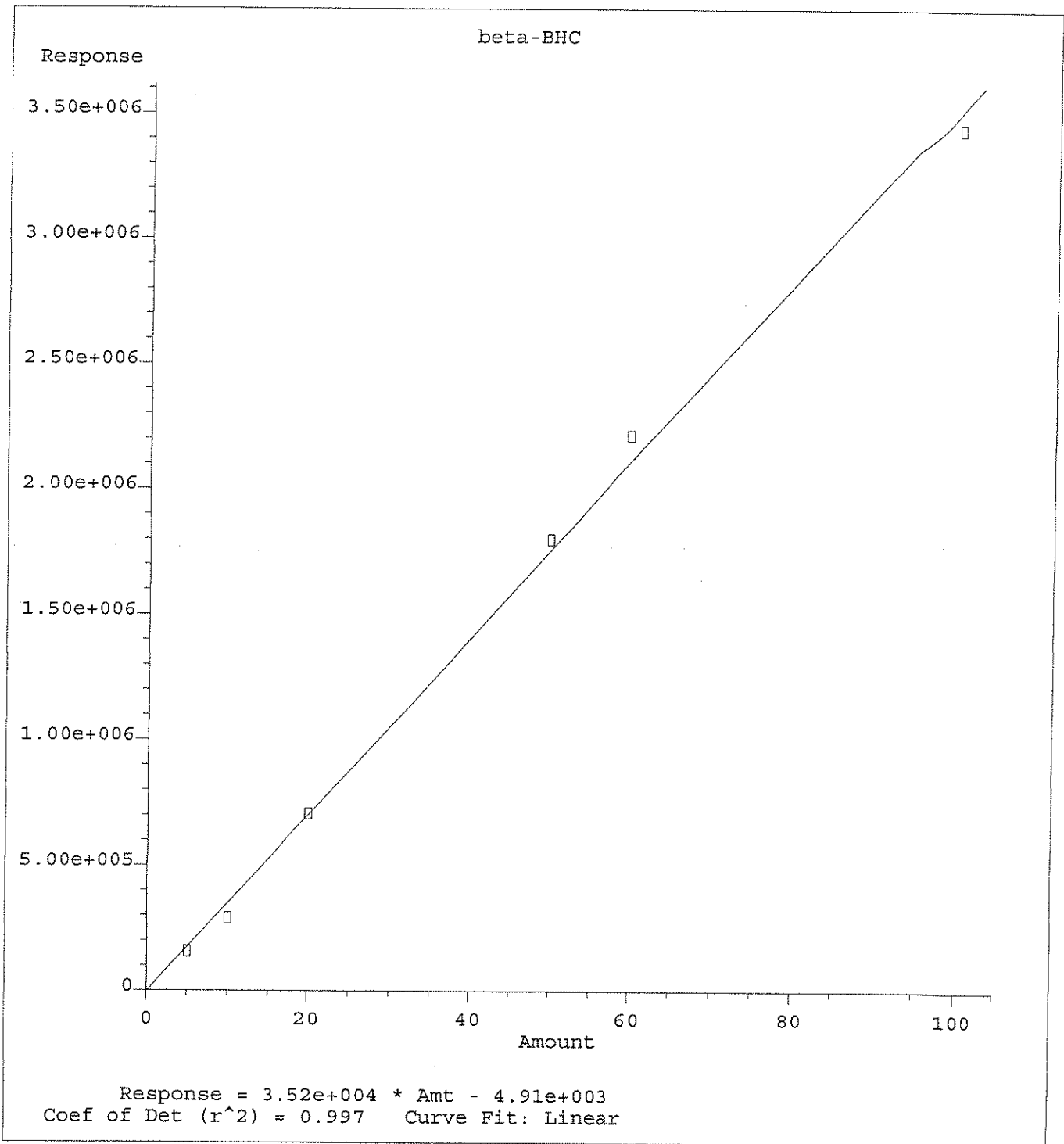


Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

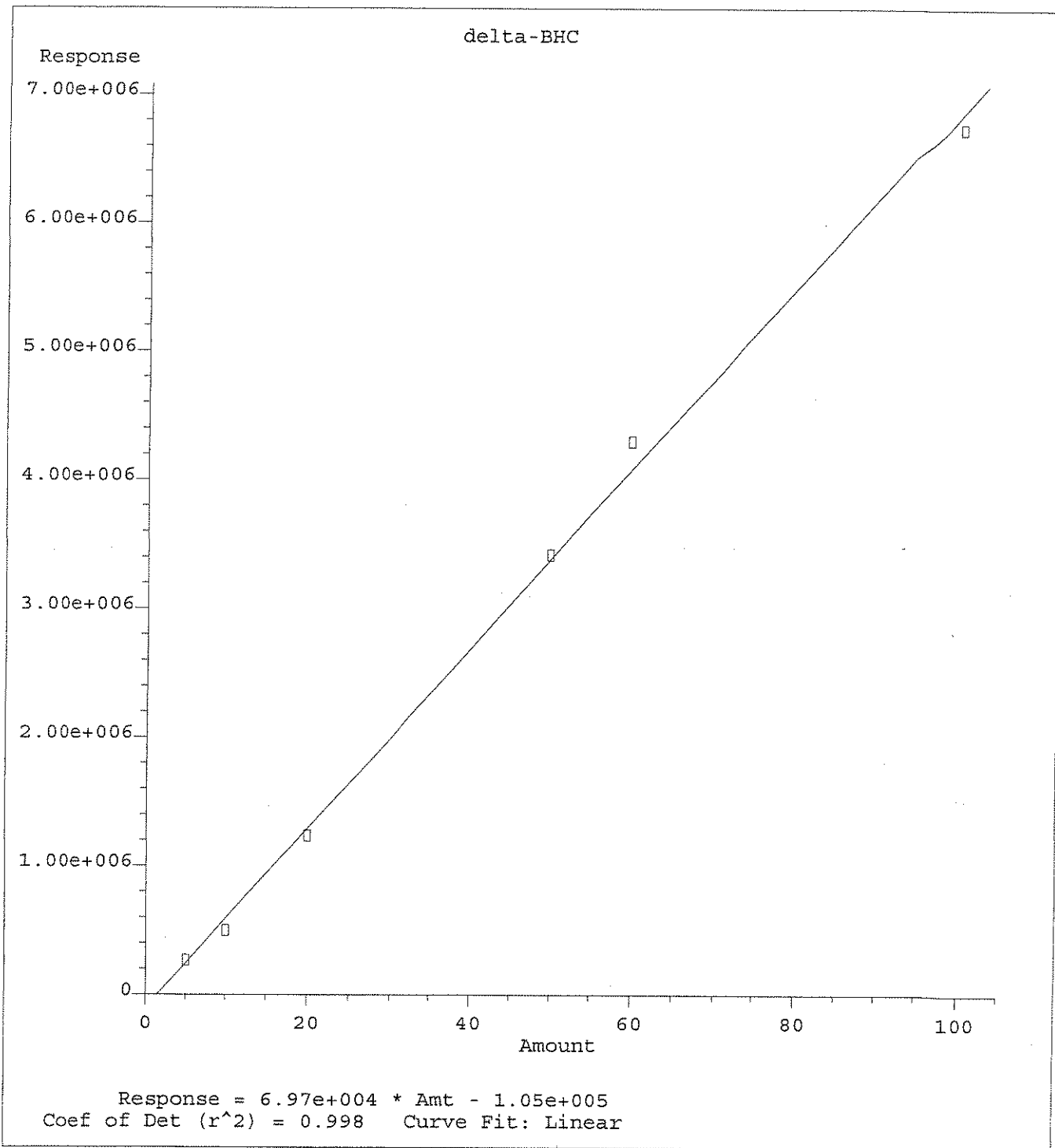


Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



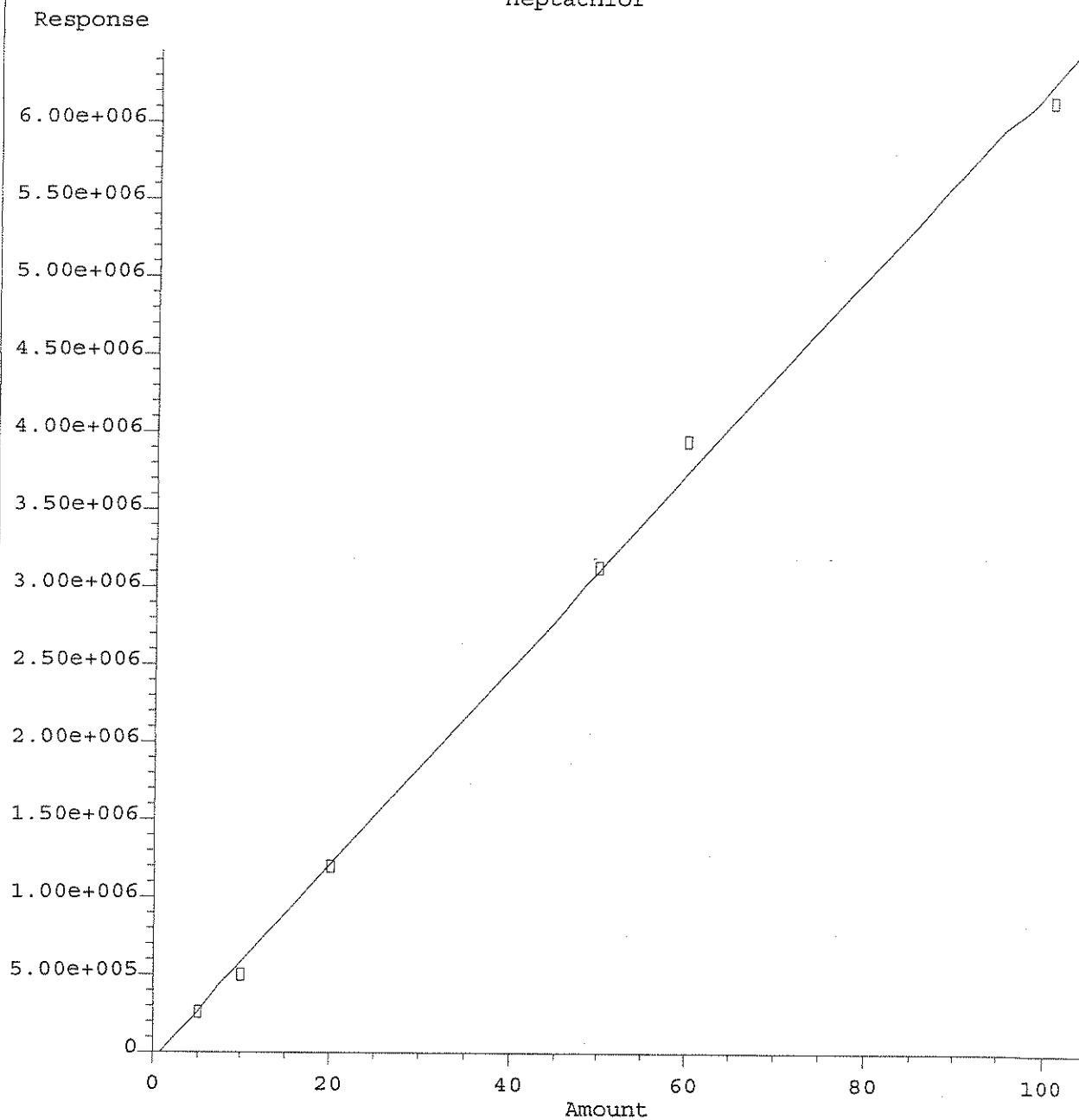


Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

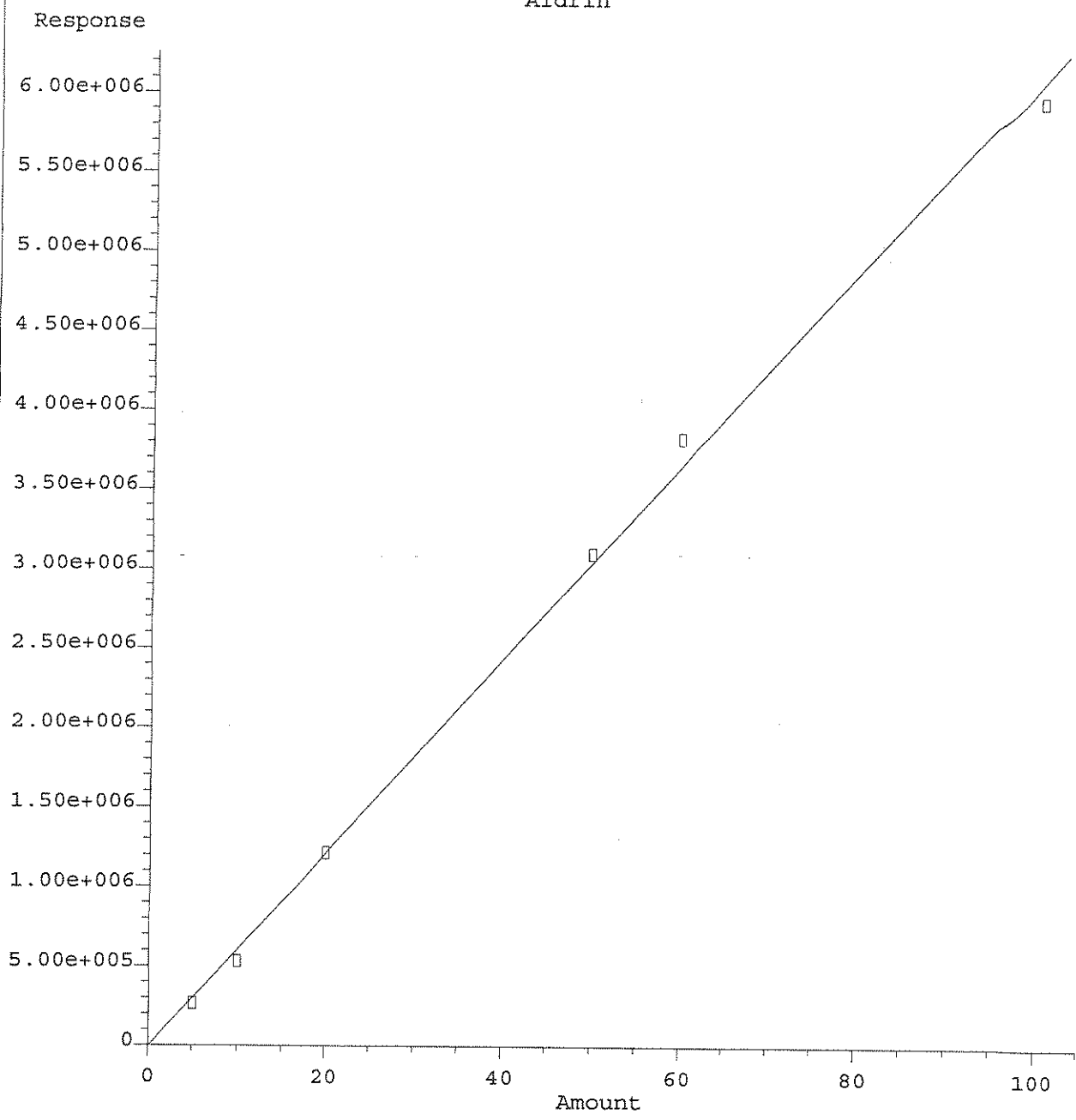
Heptachlor



Response = 6.32e+004 \* Amt - 5.04e+004  
Coef of Det (r^2) = 0.998 Curve Fit: Linear

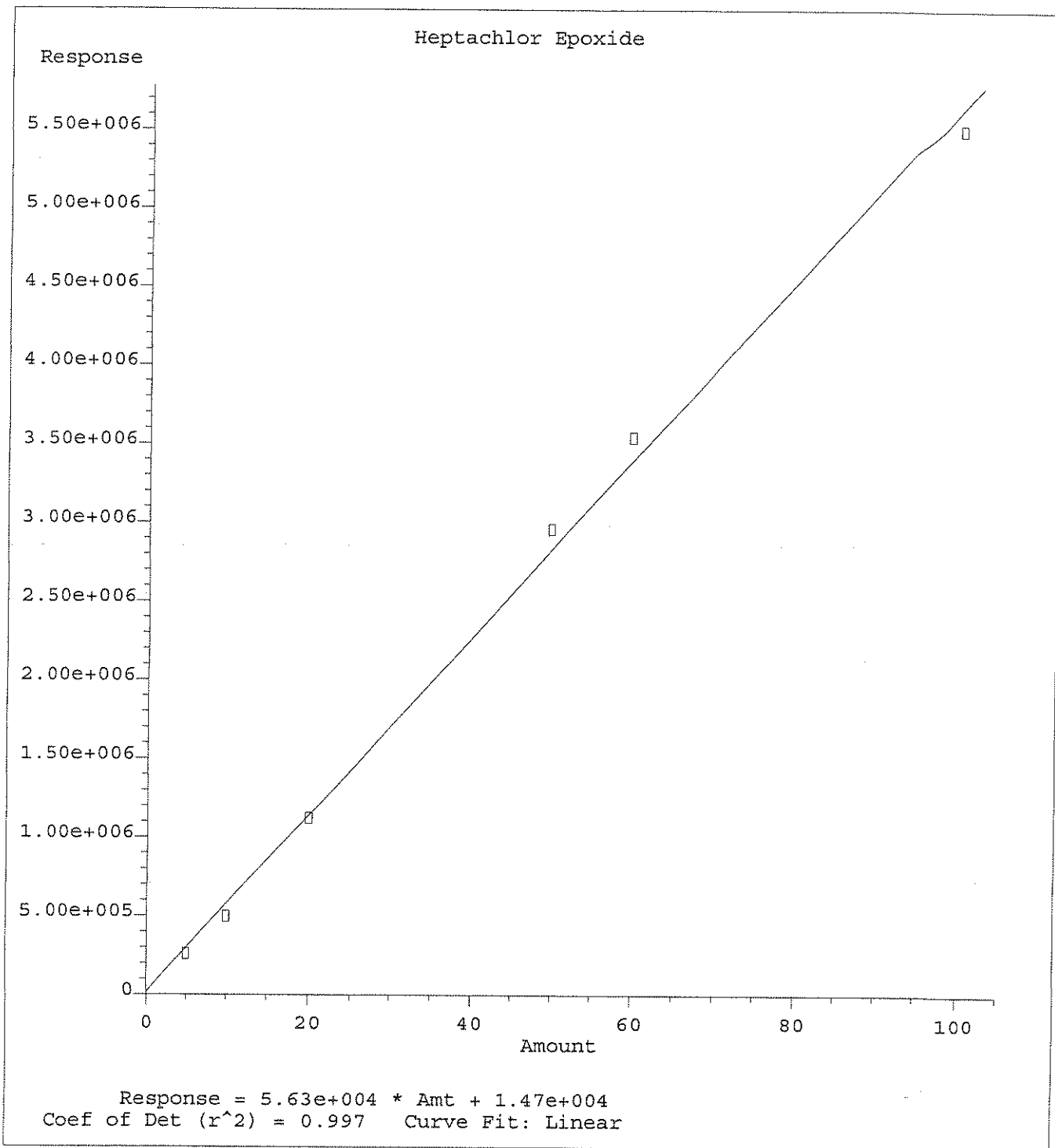
Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

Aldrin



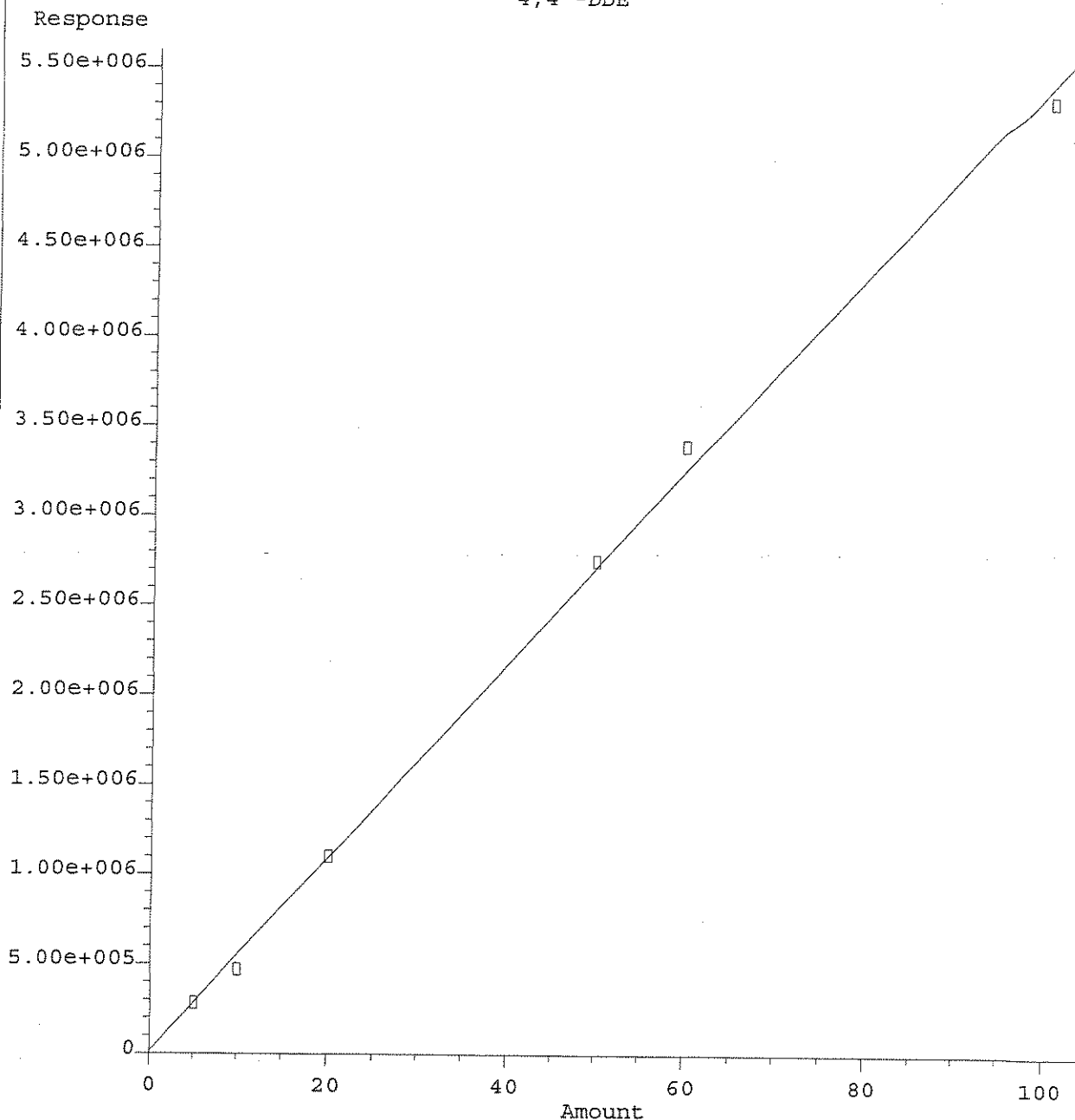
Response = 6.09e+004 \* Amt - 3.78e+003  
Coef of Det (r<sup>2</sup>) = 0.998    Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



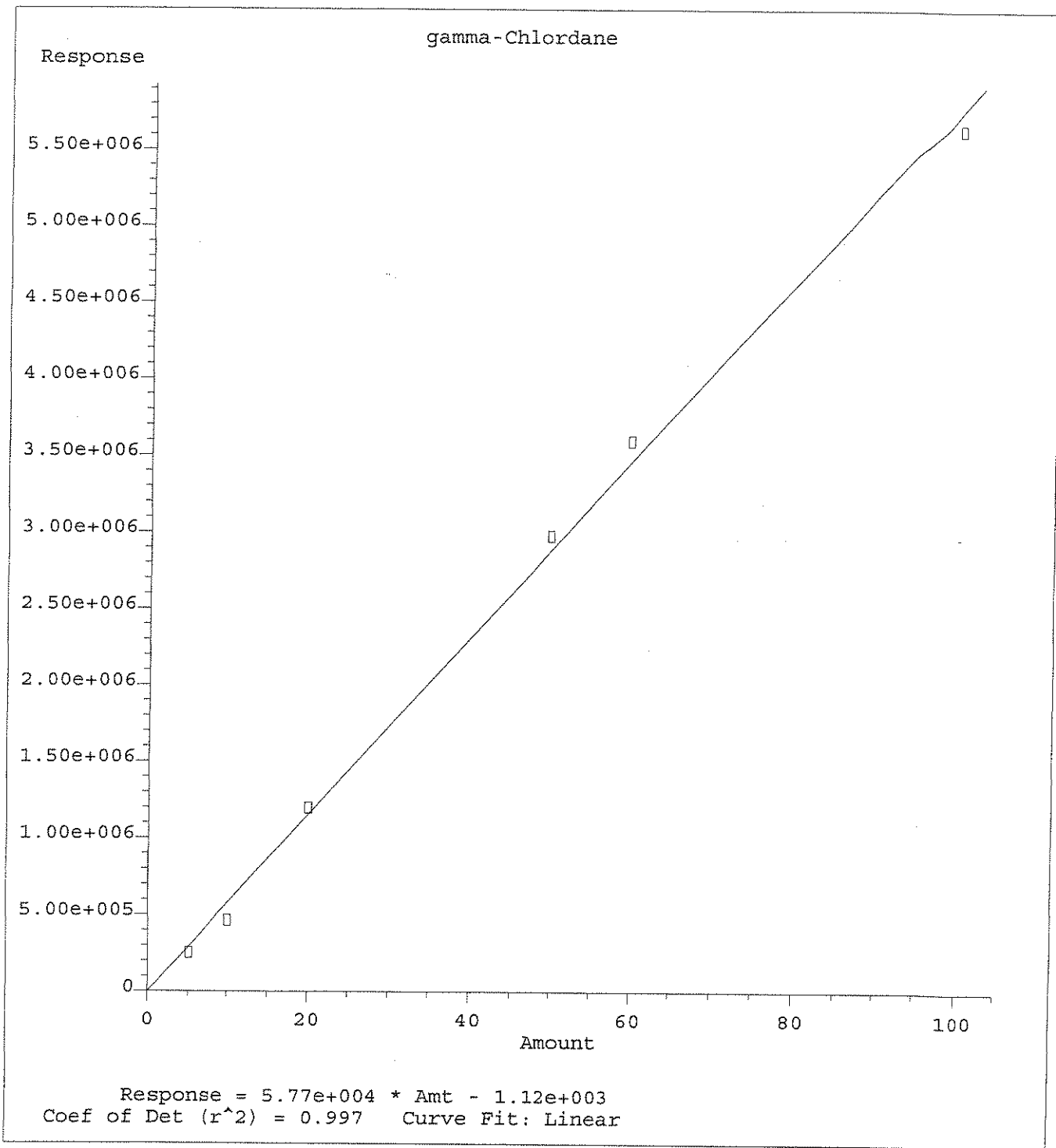
Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

4,4'-DDE



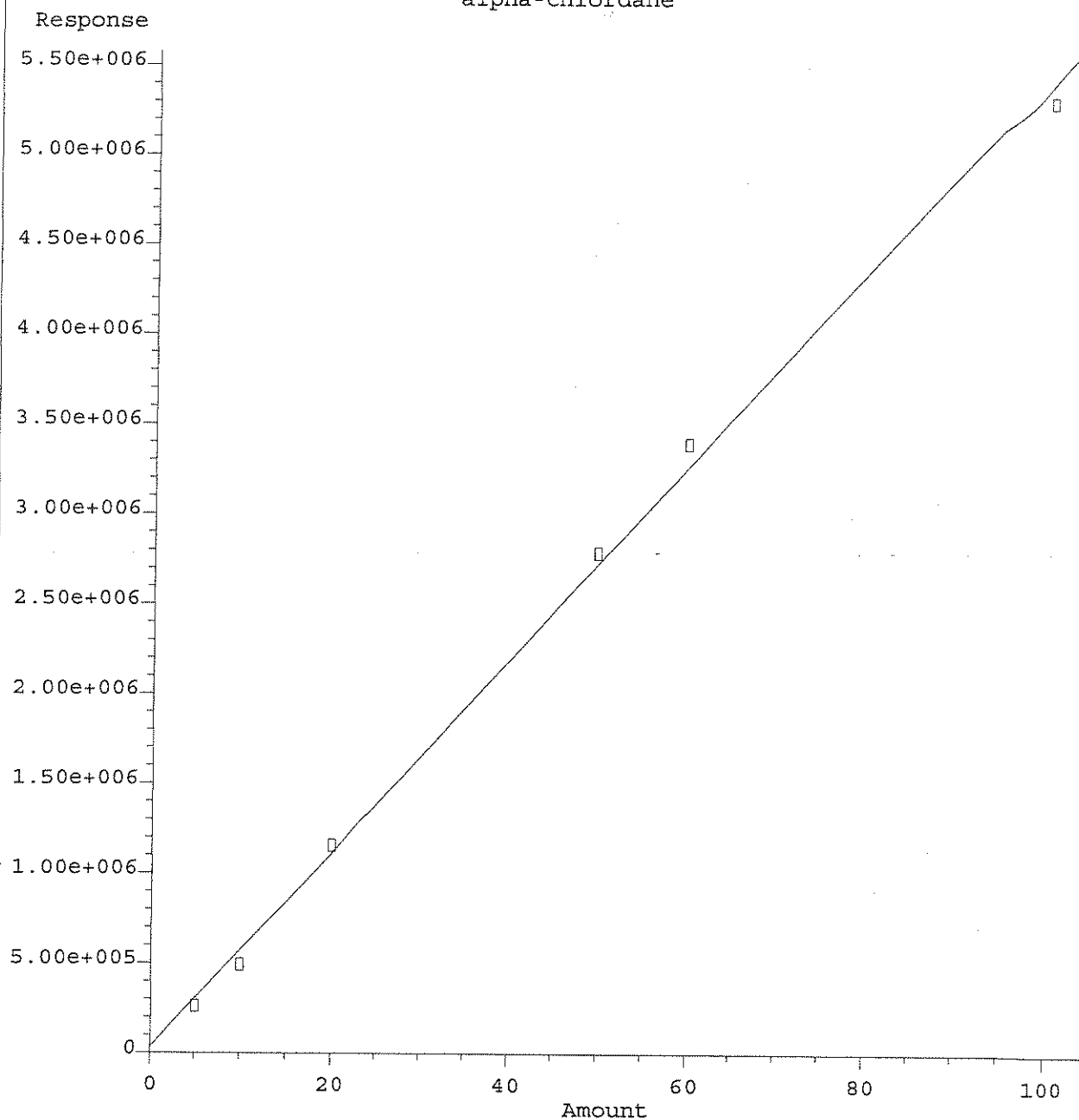
Response = 5.41e+004 \* Amt + 1.25e+004  
Coef of Det (r^2) = 0.998 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

alpha-Chlordane

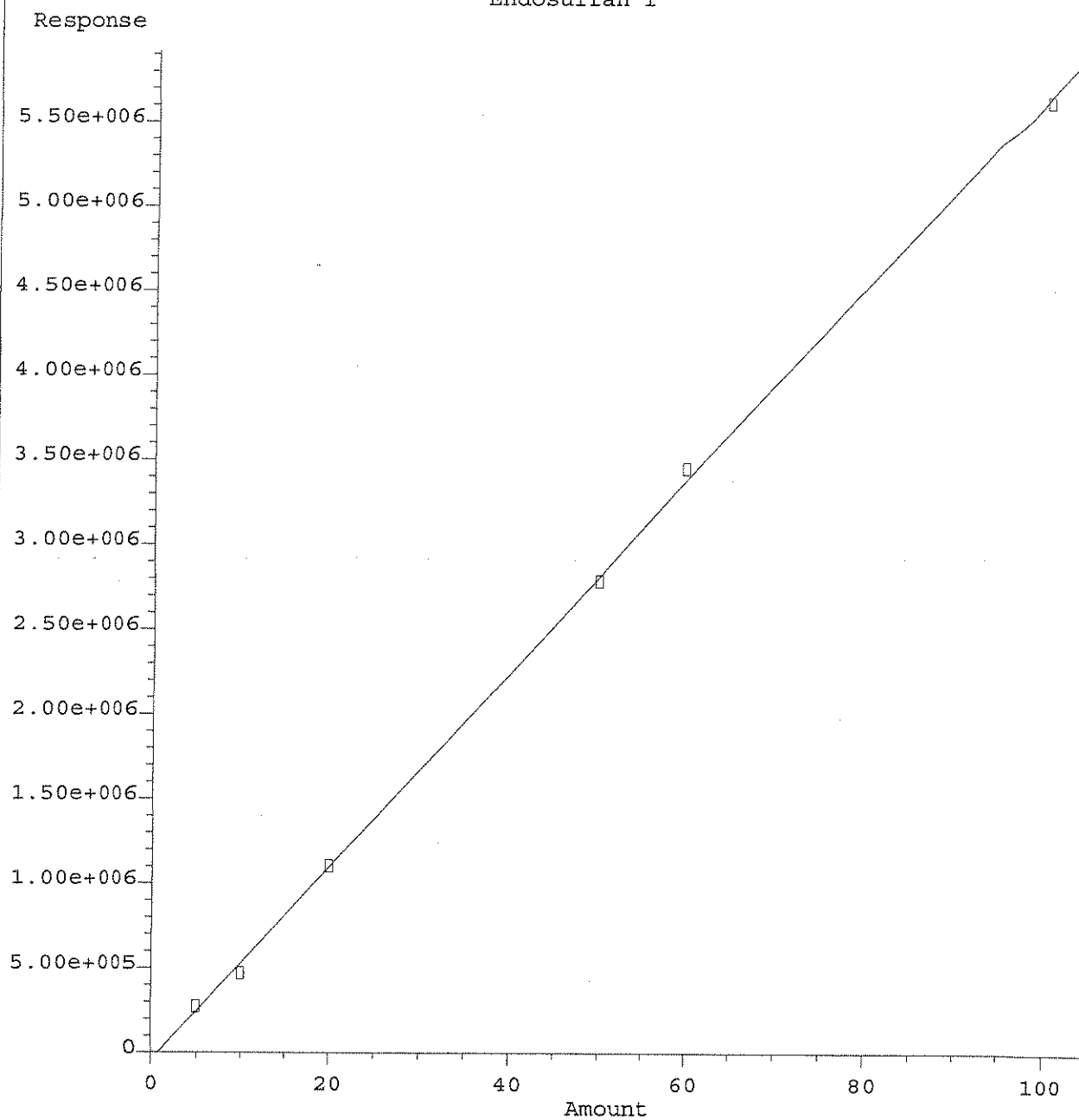


Response = 5.38e+004 \* Amt + 3.64e+004  
Coef of Det (r^2) = 0.998 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

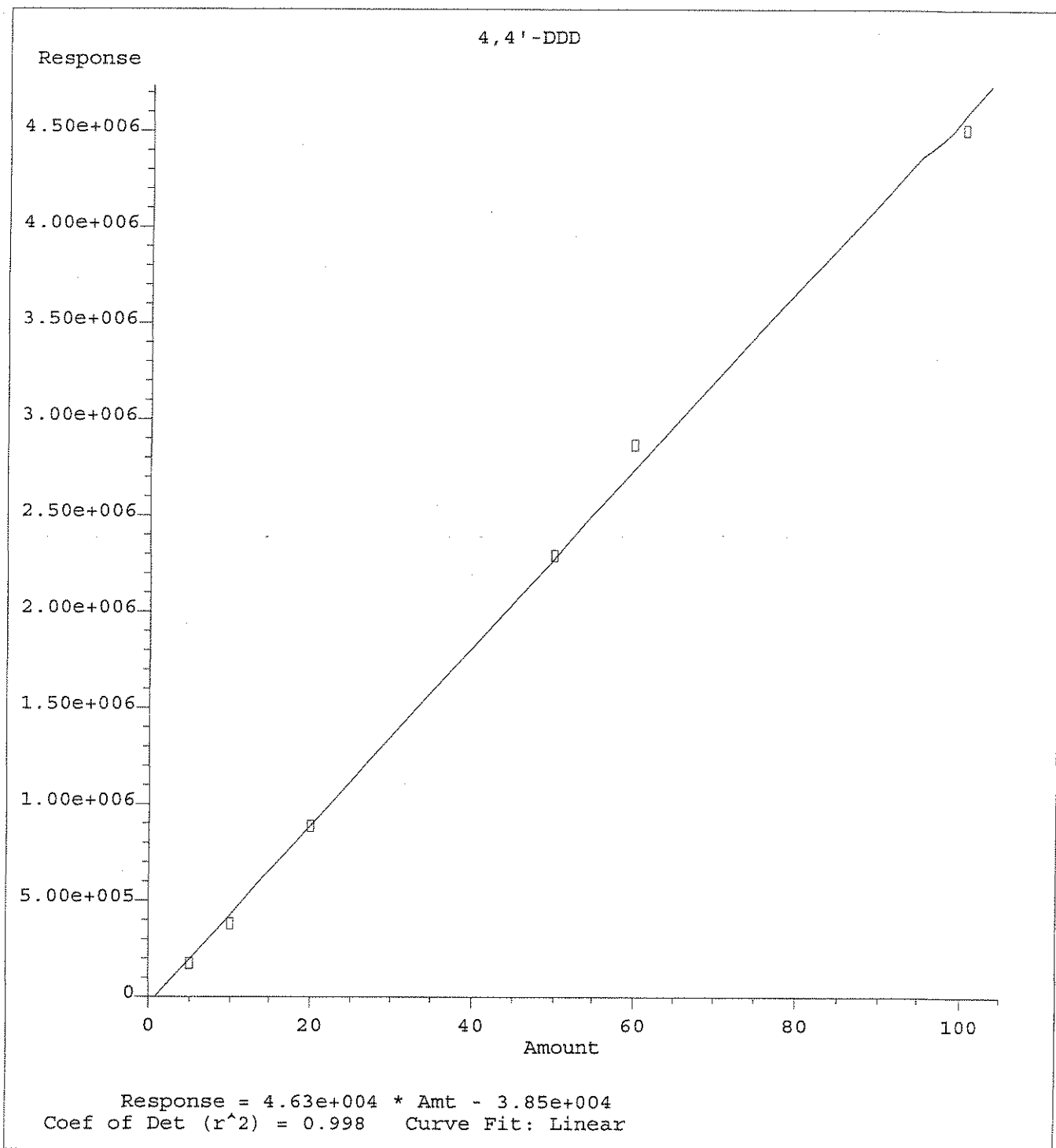


Endosulfan I



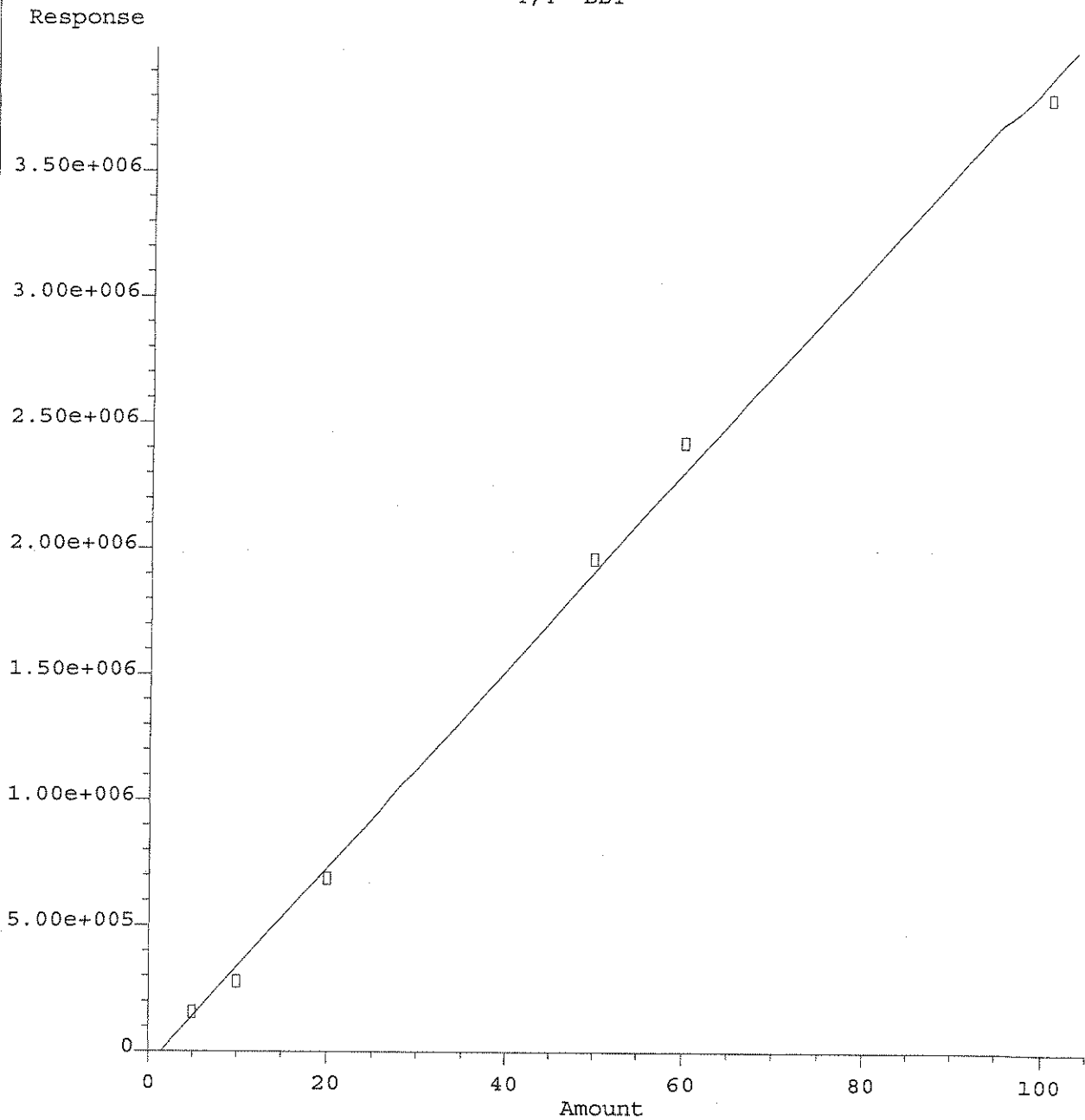
Response = 5.71e+004 \* Amt - 4.39e+004  
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



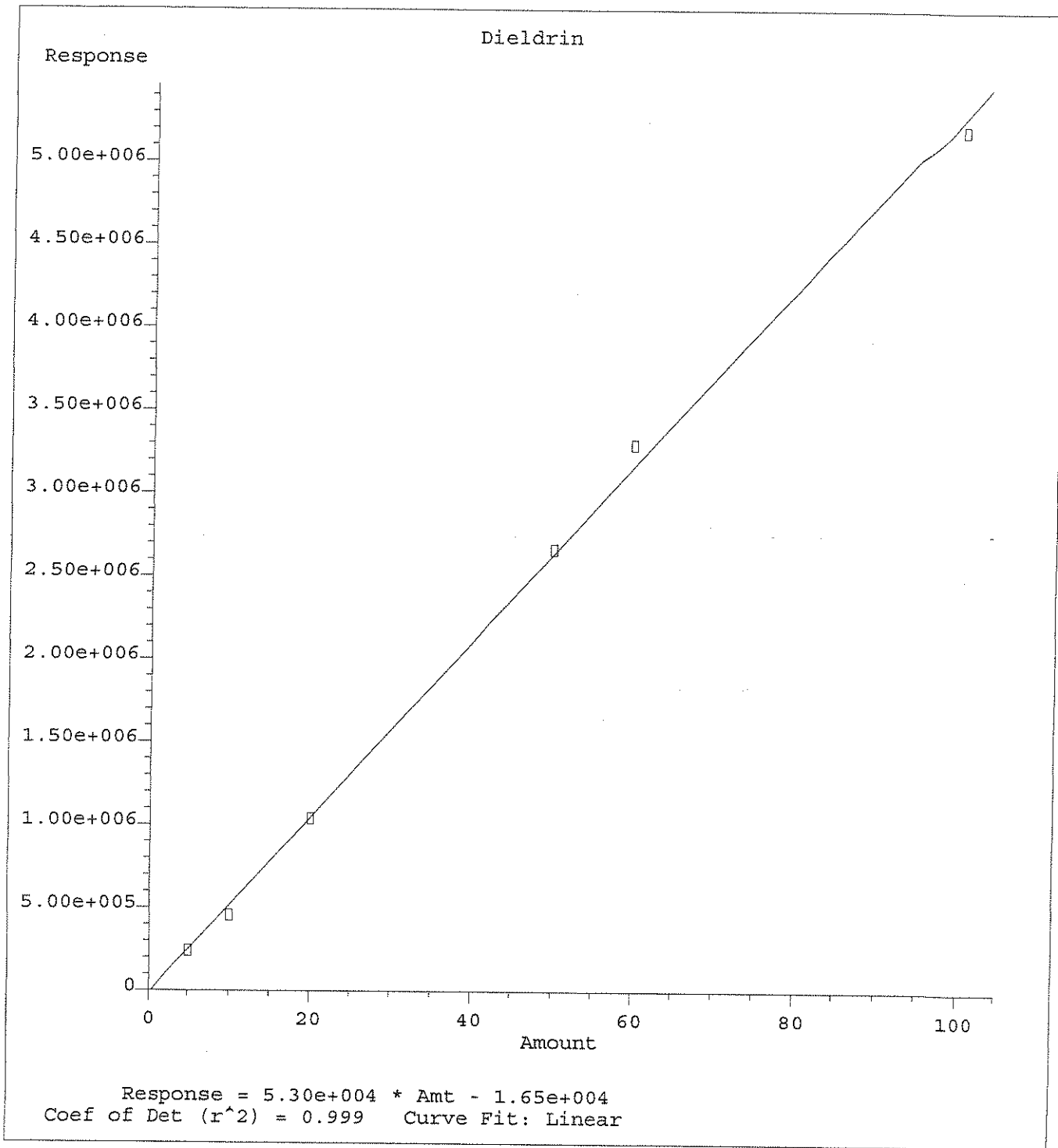
Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

4,4'-DDT



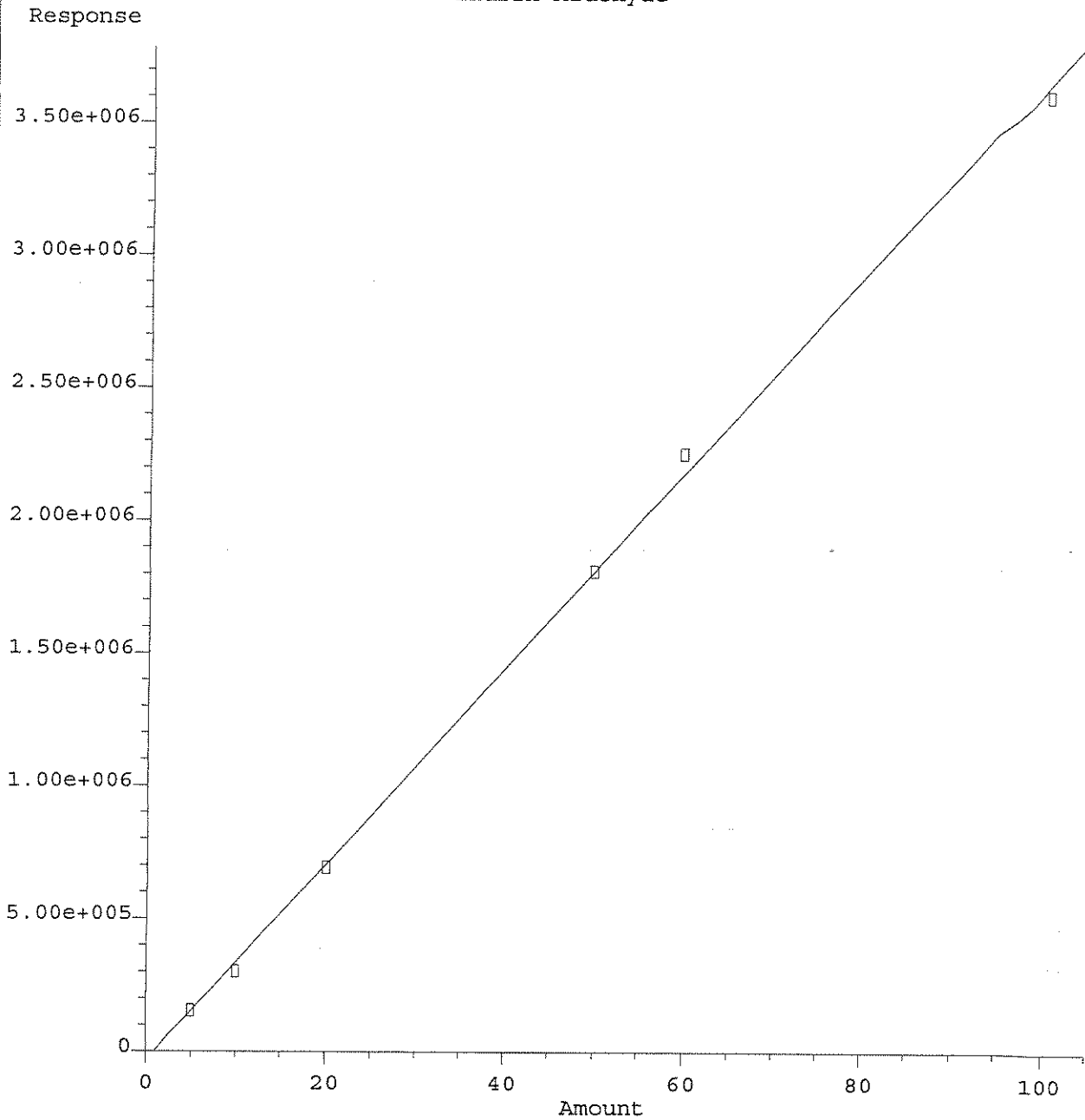
Response = 3.94e+004 \* Amt - 5.79e+004  
Coef of Det (r<sup>2</sup>) = 0.997 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



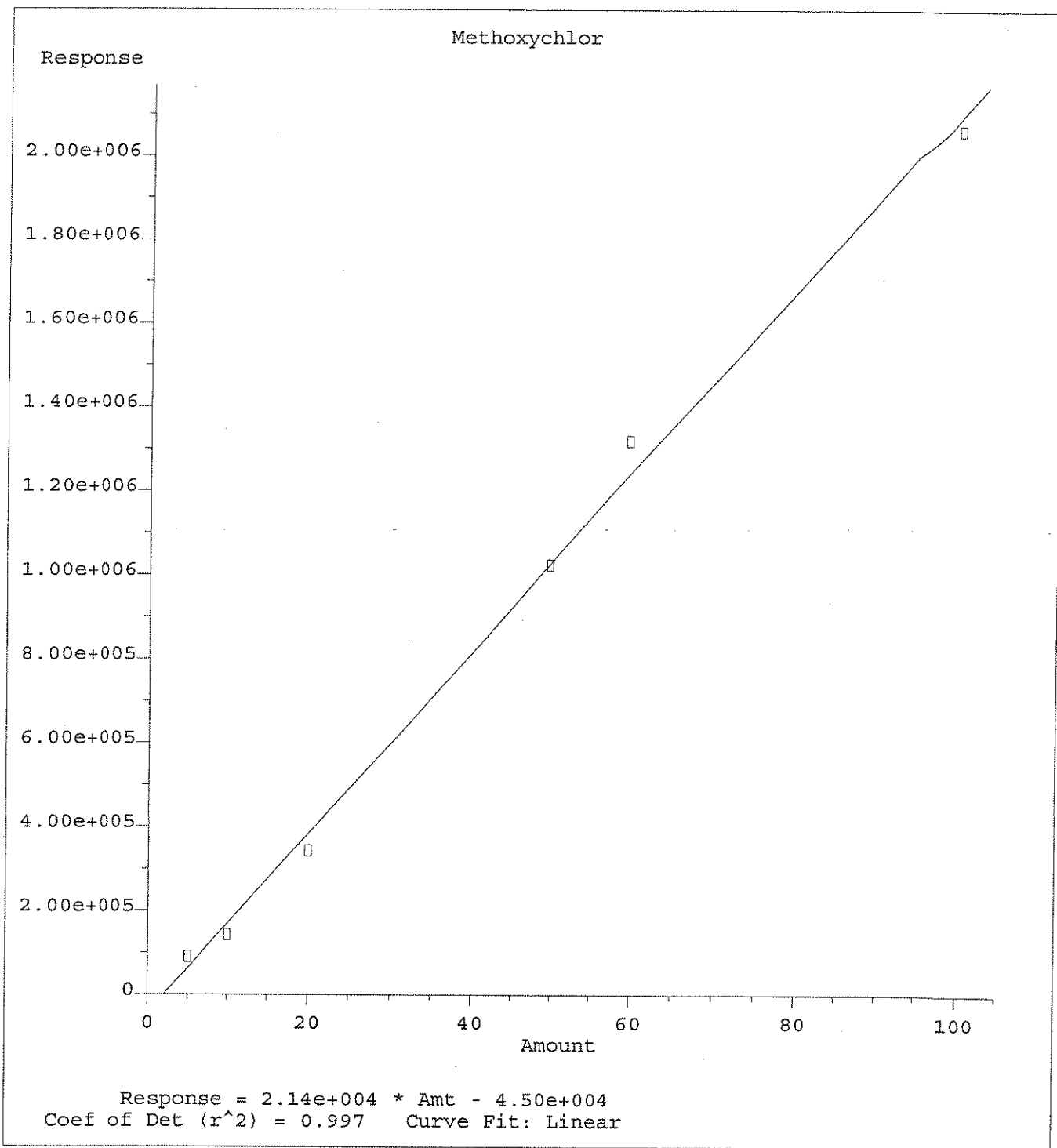
Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

Endrin Aldehyde

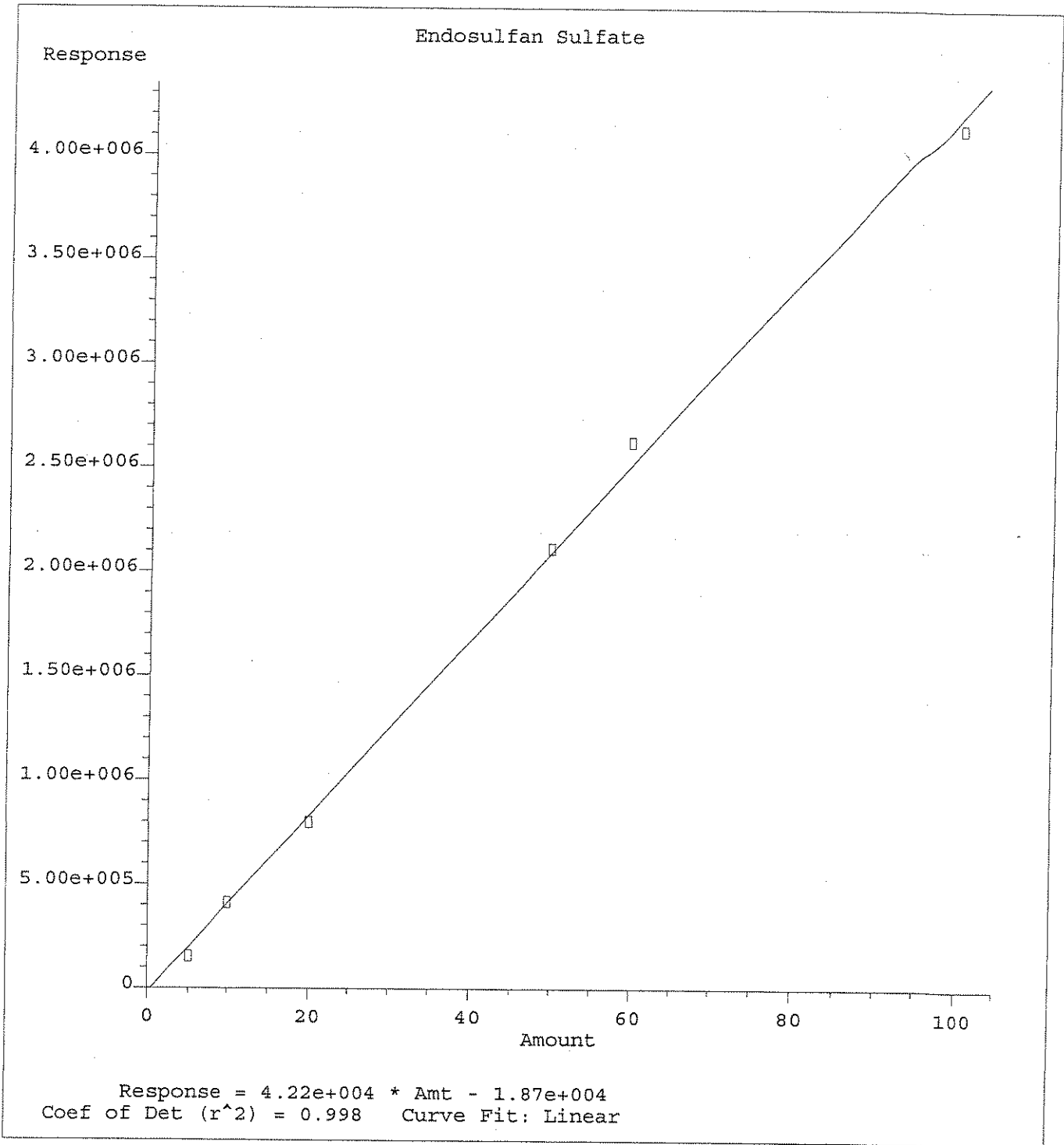


Response =  $3.68e+004 * Amt - 3.48e+004$   
Coef of Det ( $r^2$ ) = 0.999    Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

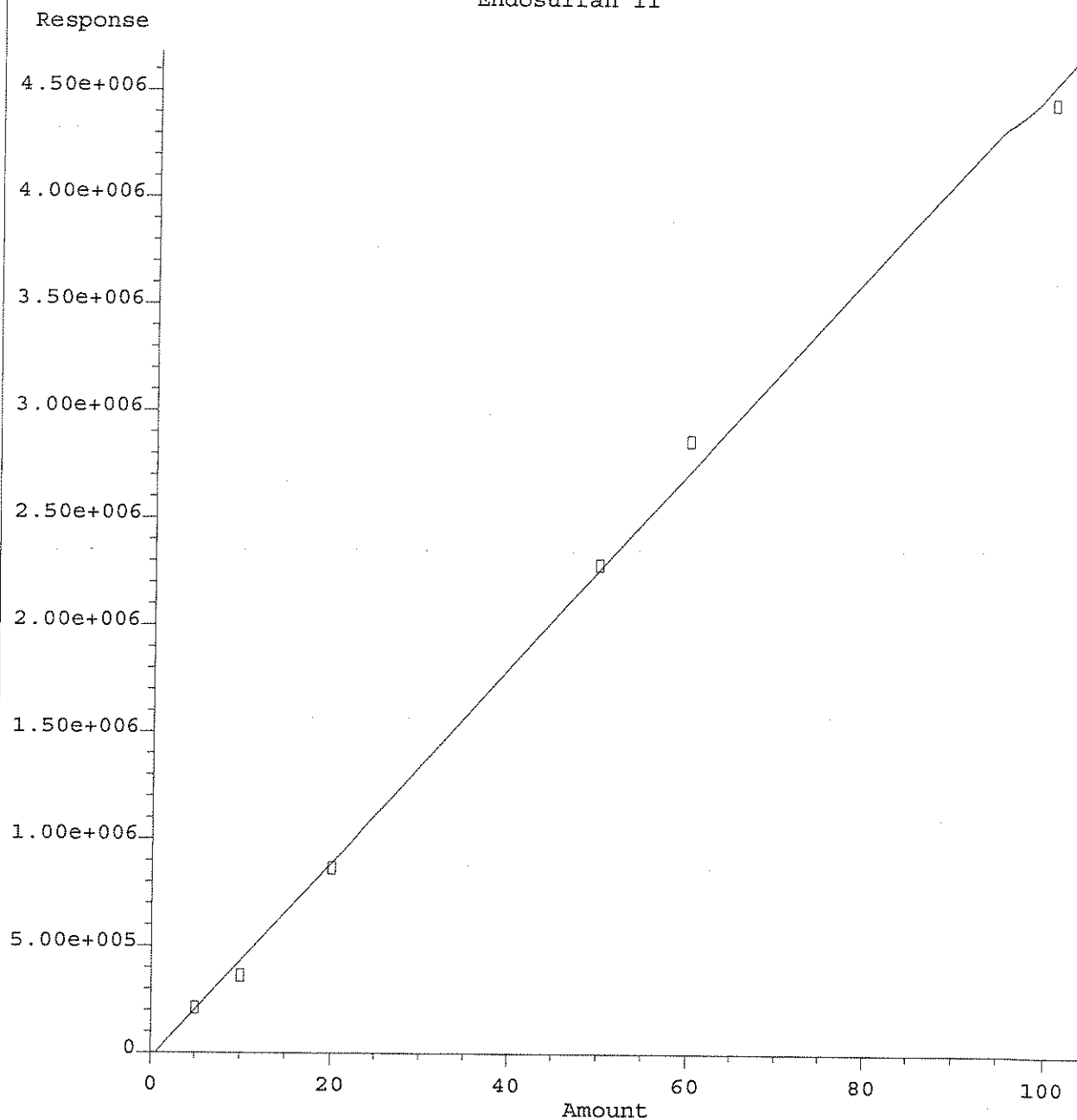


Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

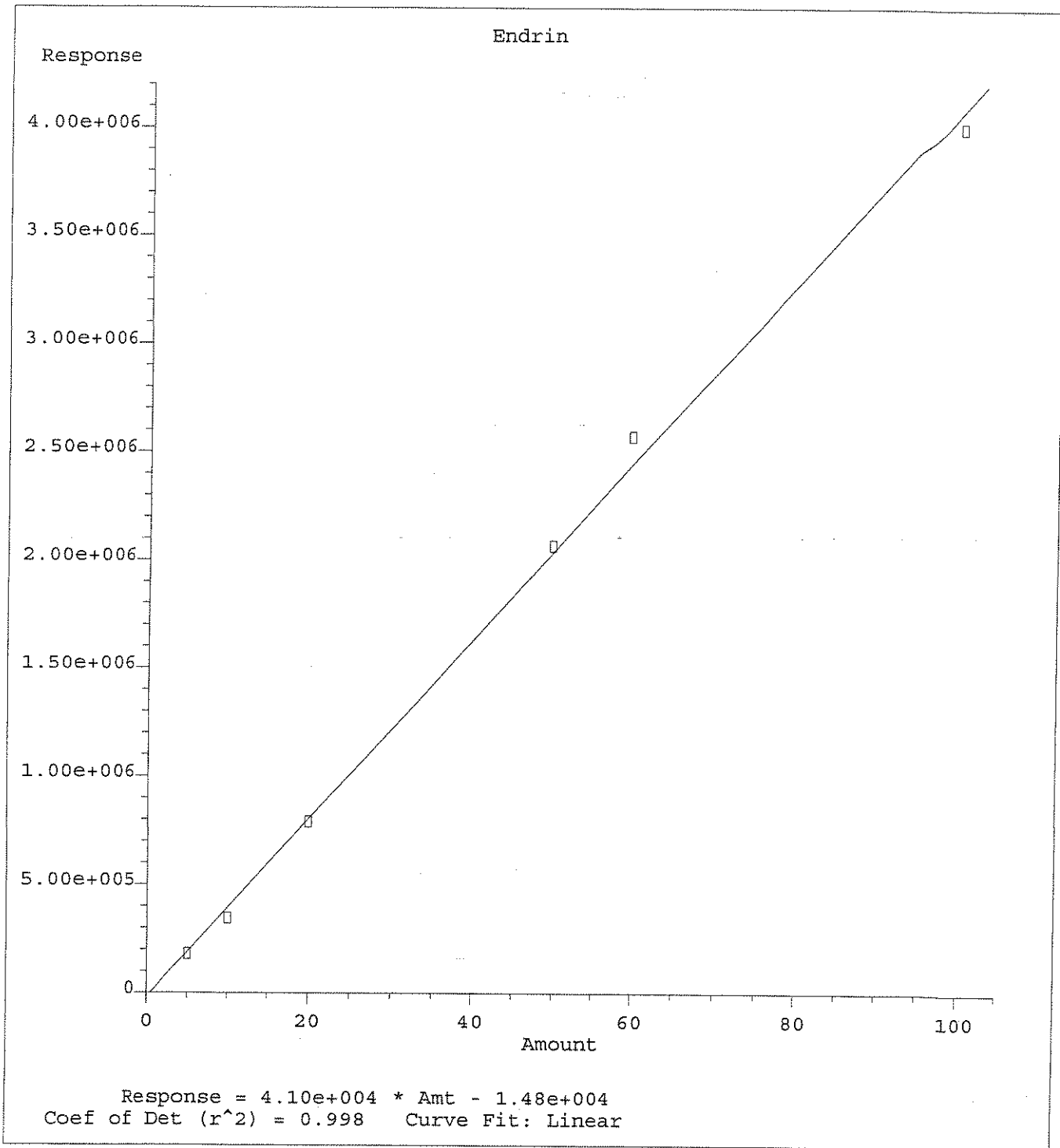
Endosulfan II



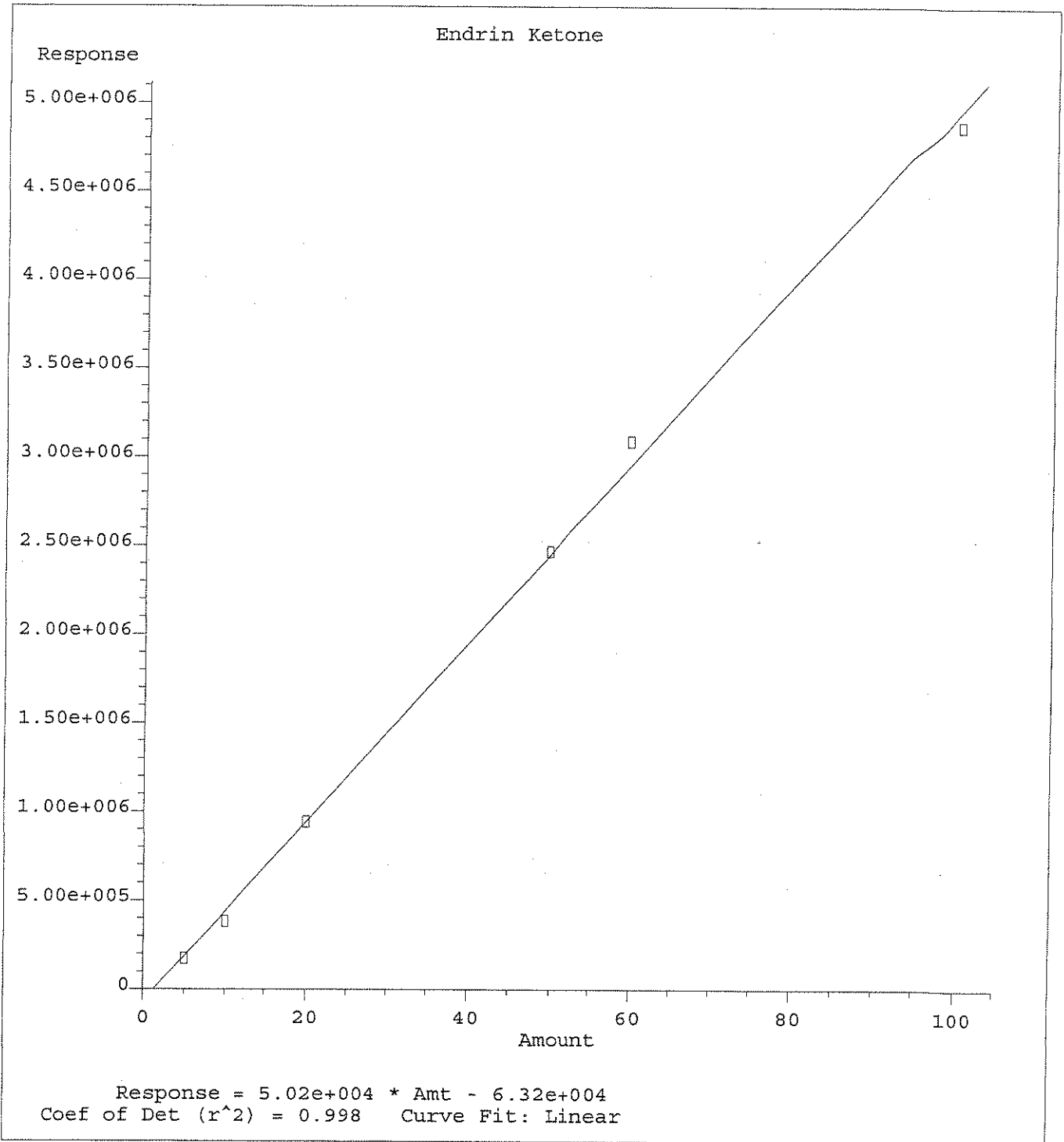
Response =  $4.58e+004 * Amt - 2.81e+004$   
Coef of Det ( $r^2$ ) = 0.997 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

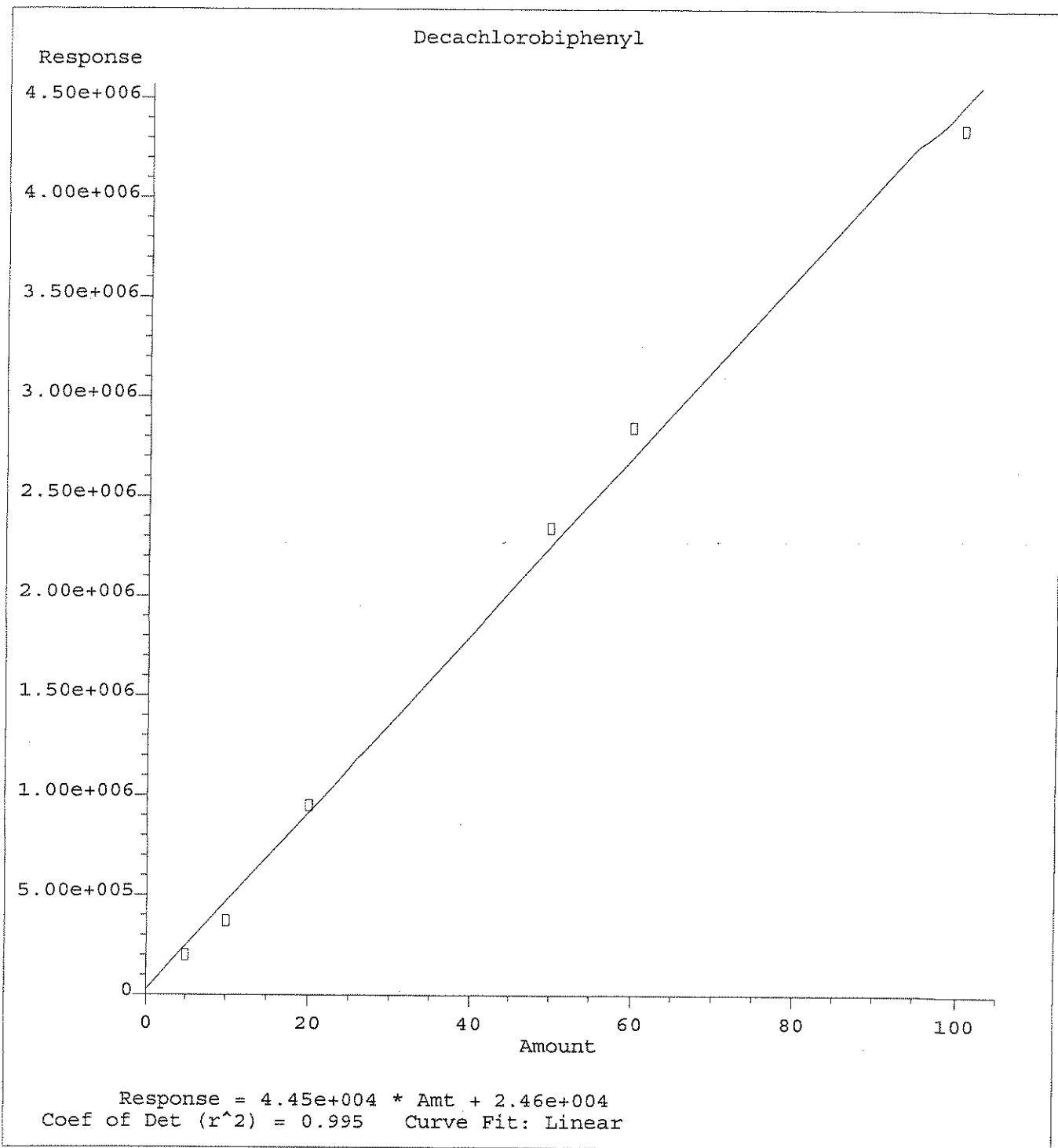




Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

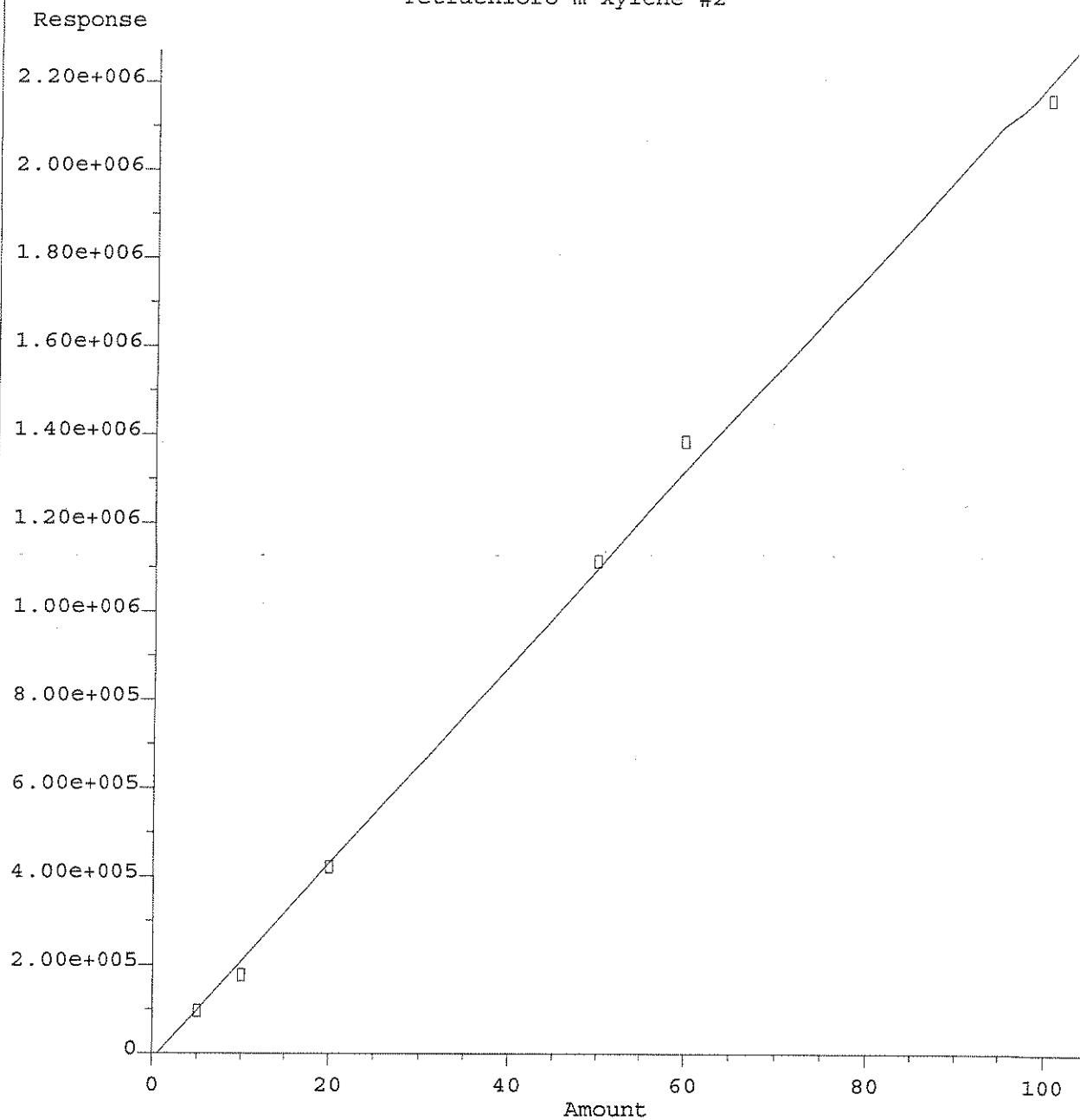


Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



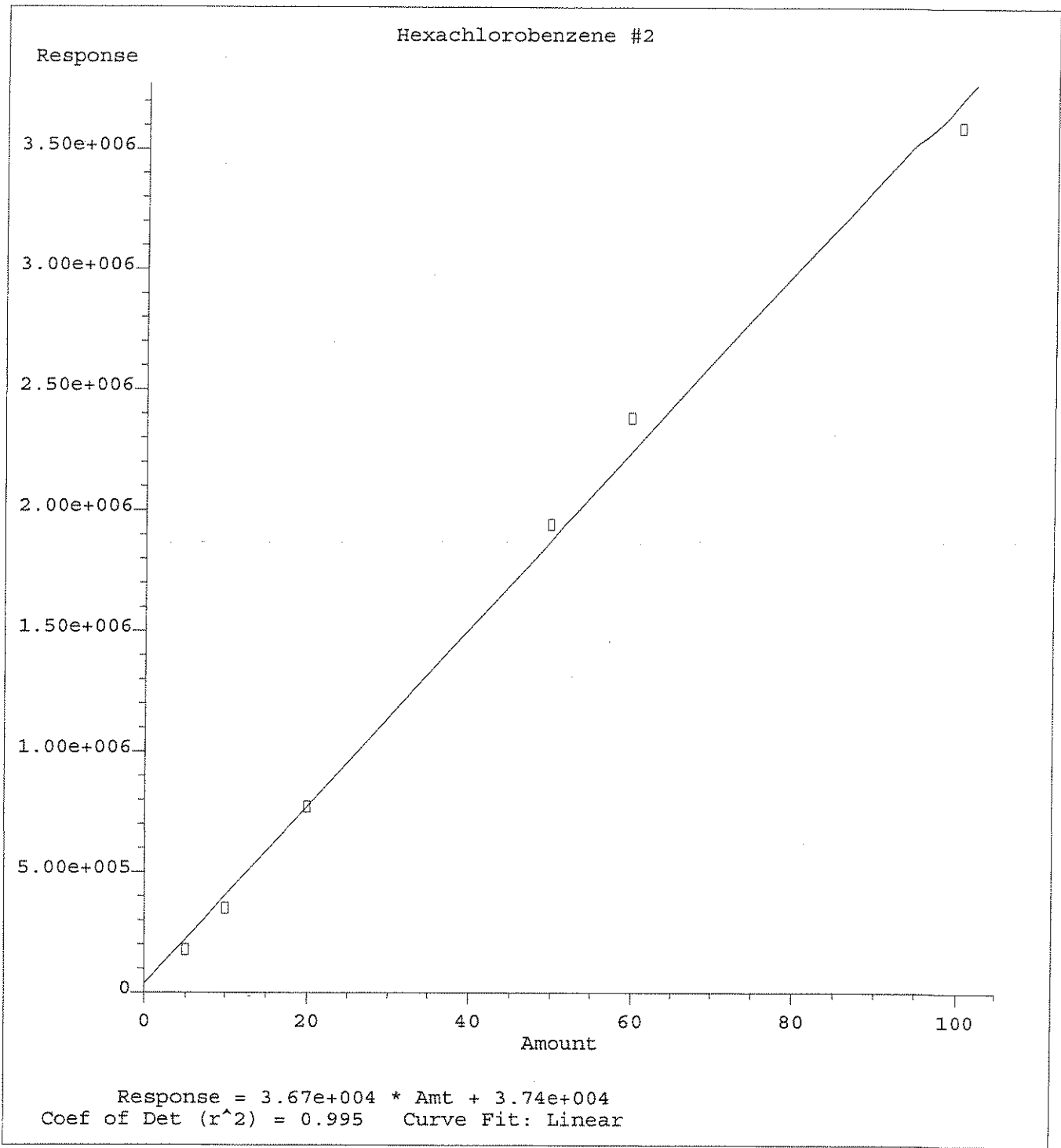
Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

Tetrachloro-m-xylene #2

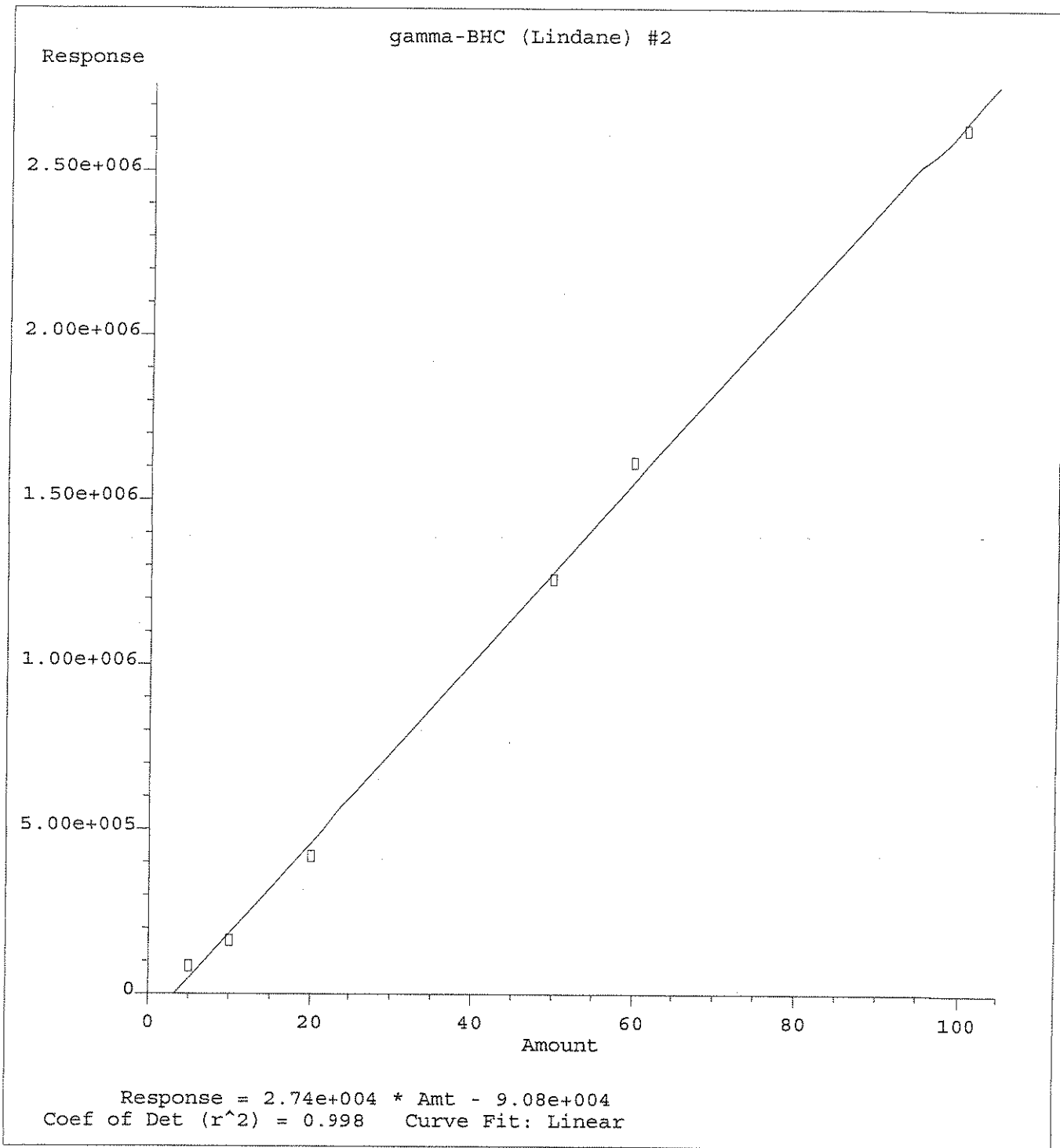


Response = 2.22e+004 \* Amt - 1.37e+004  
Coef of Det (r^2) = 0.998 Curve Fit: Linear

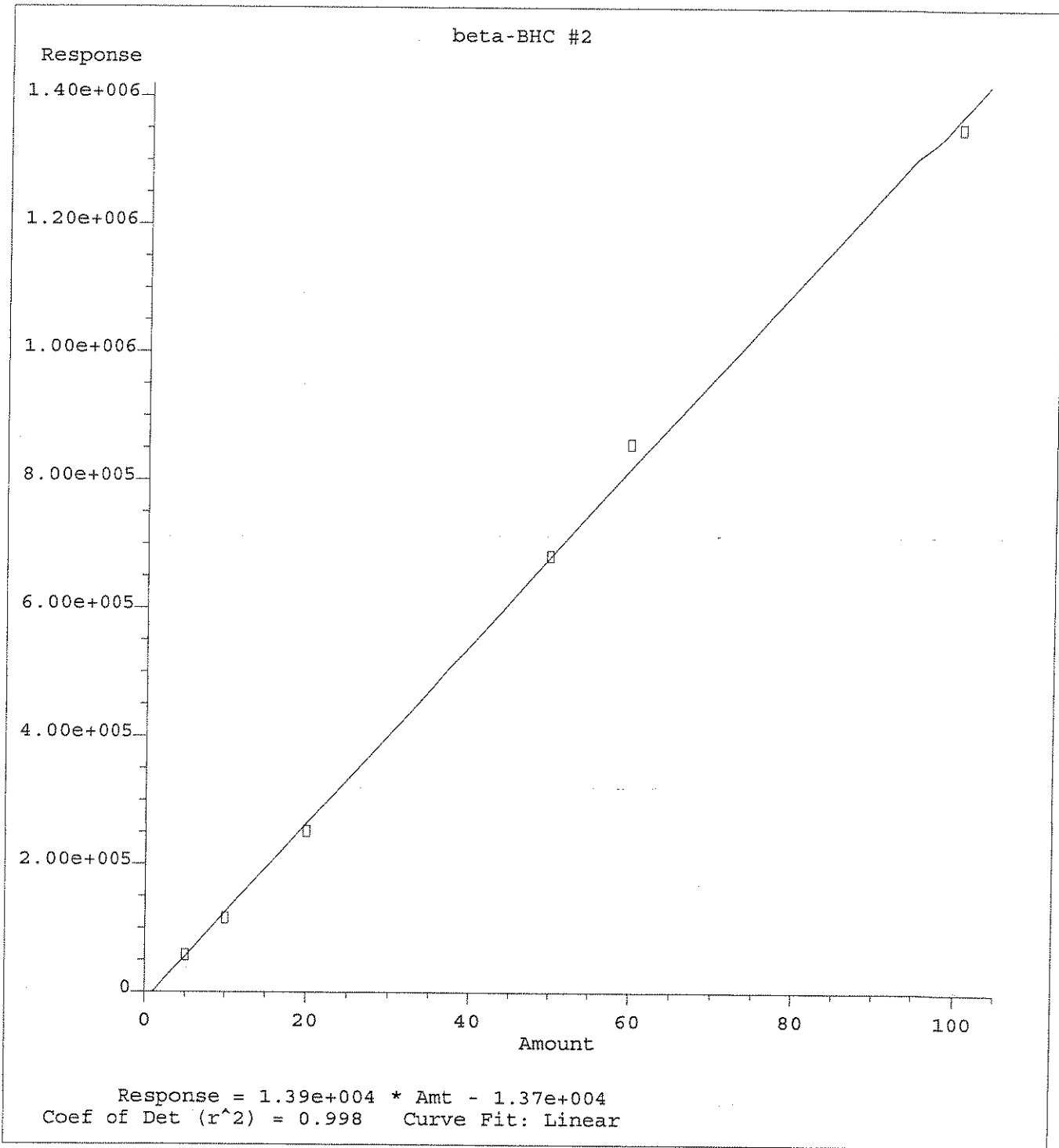
Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



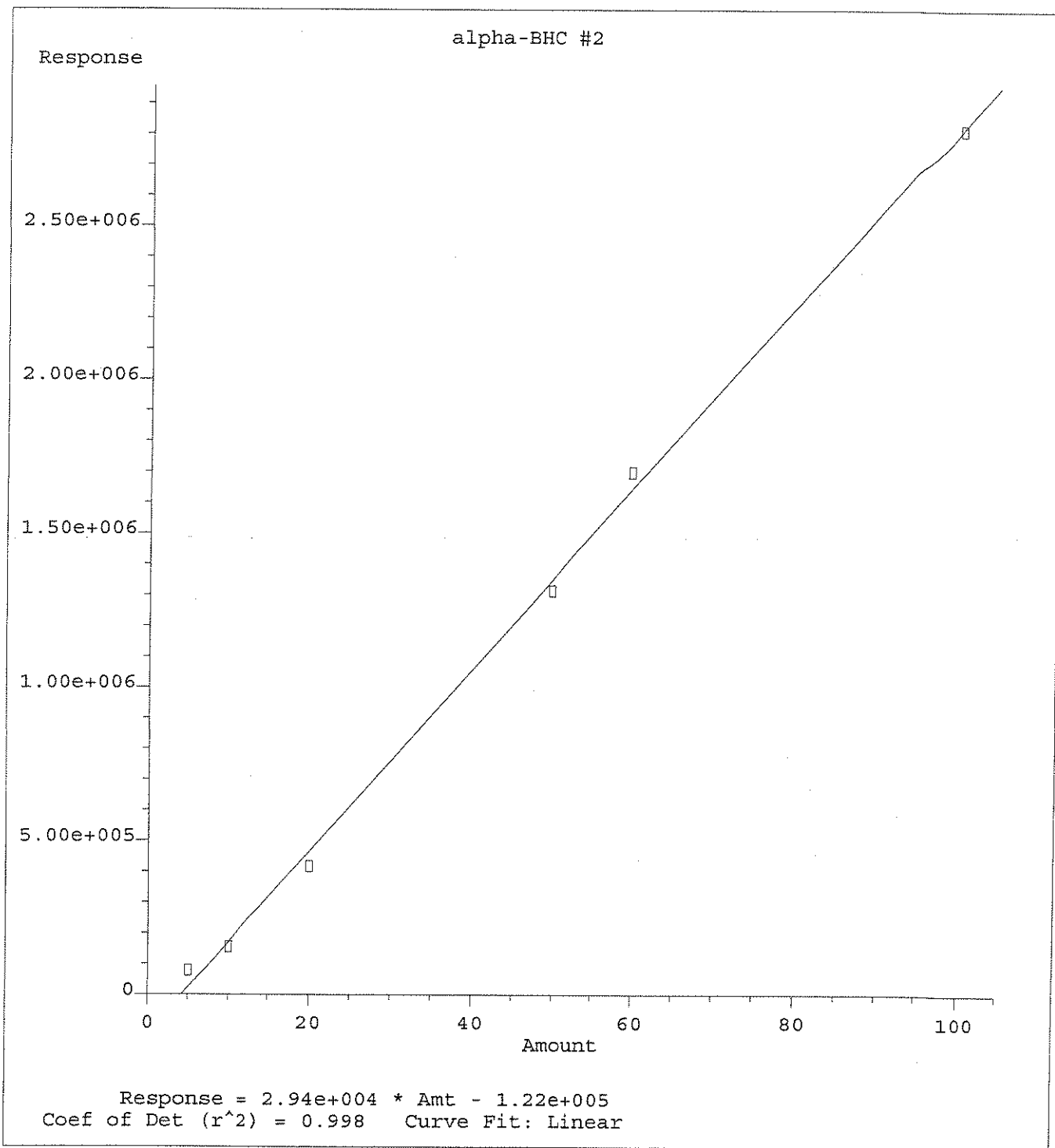
Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

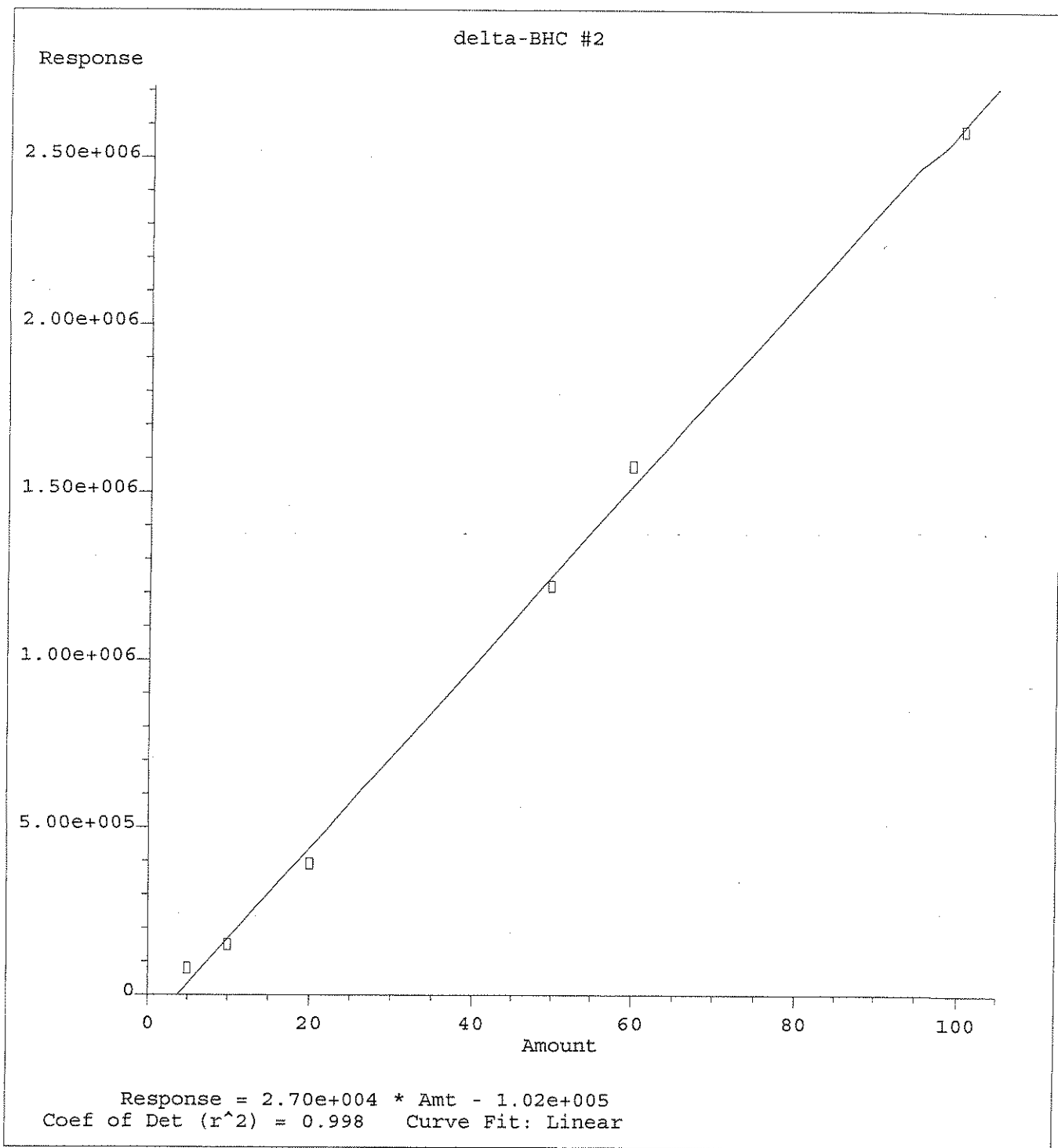


Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

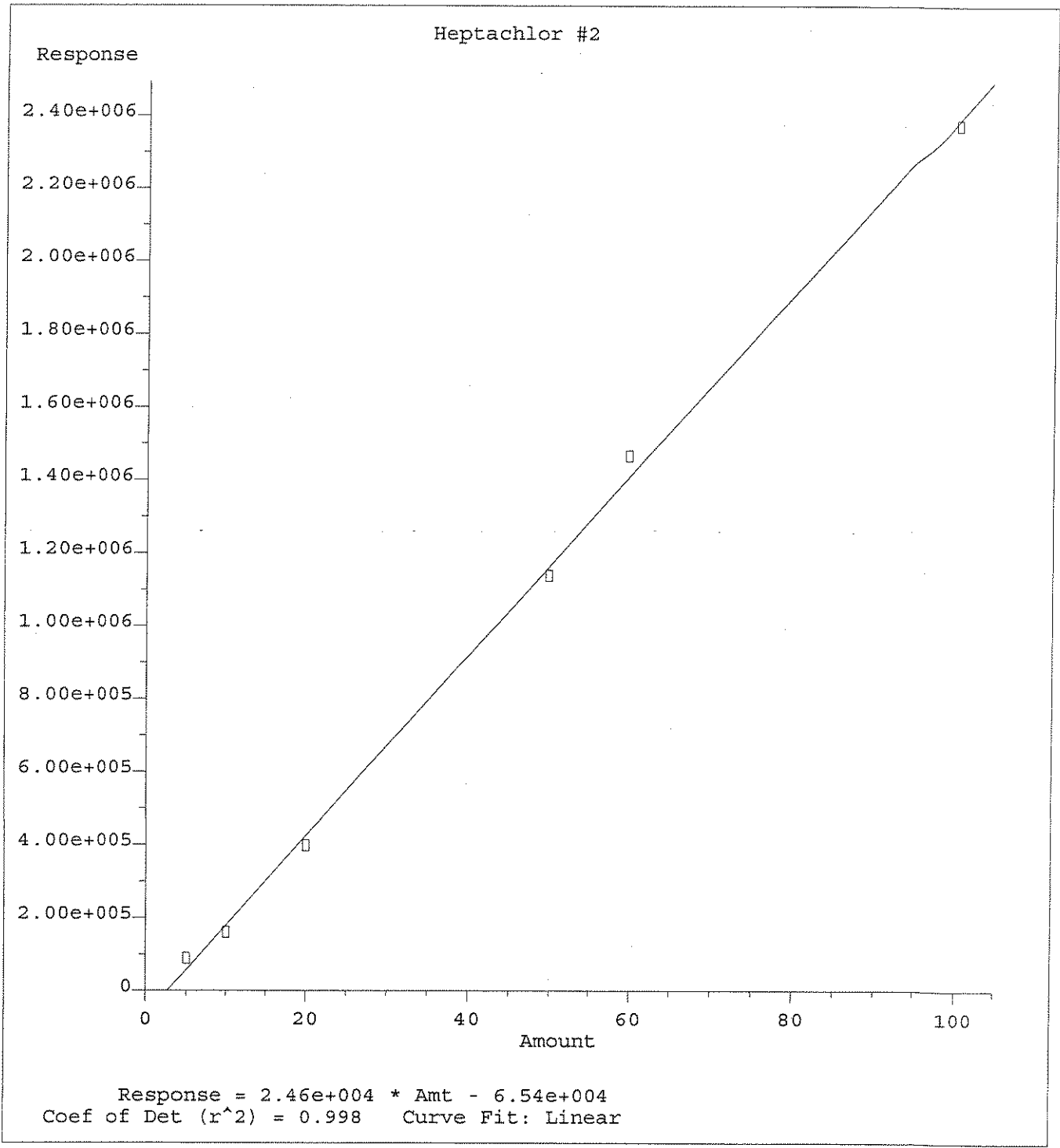


Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



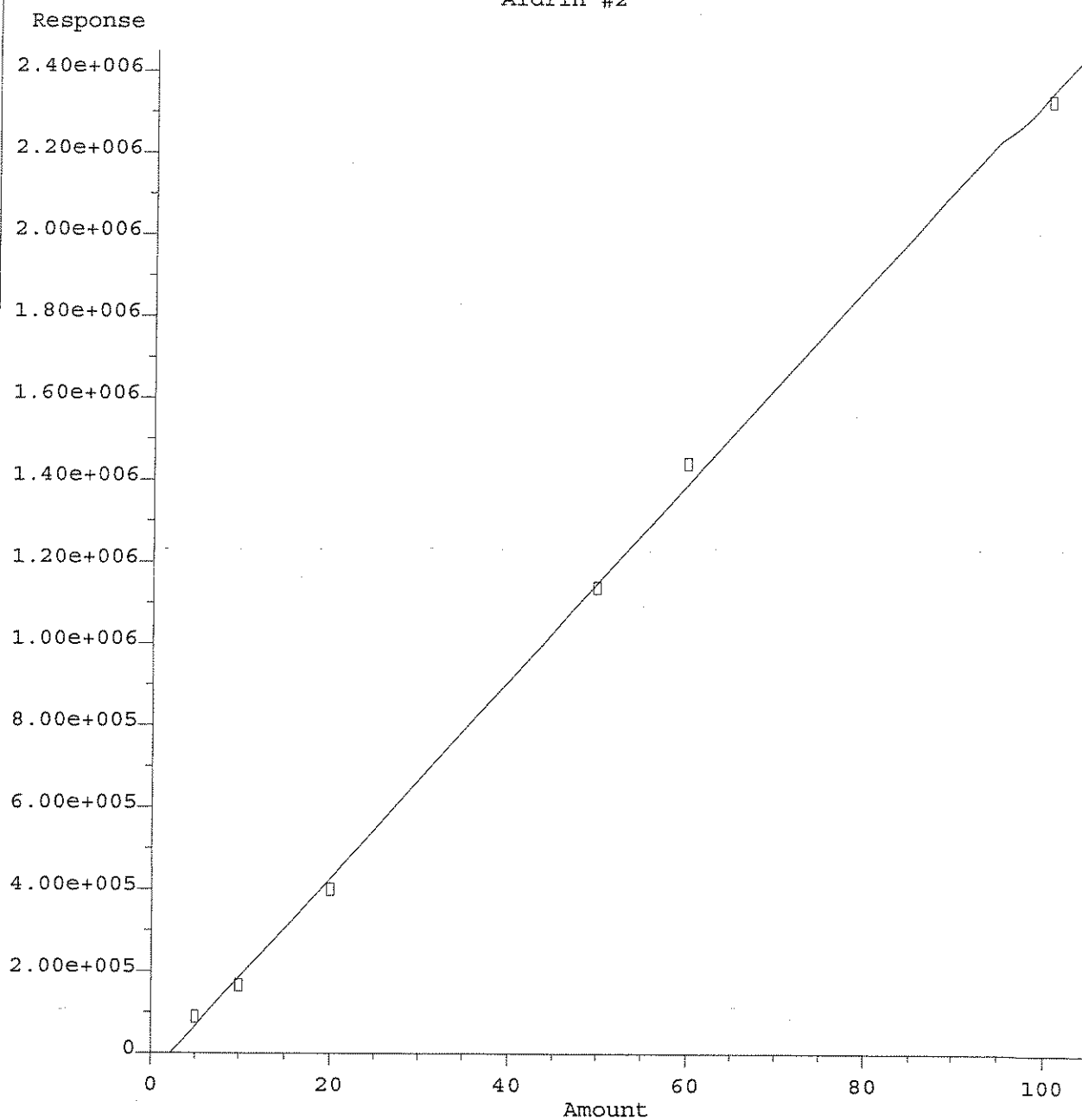


Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



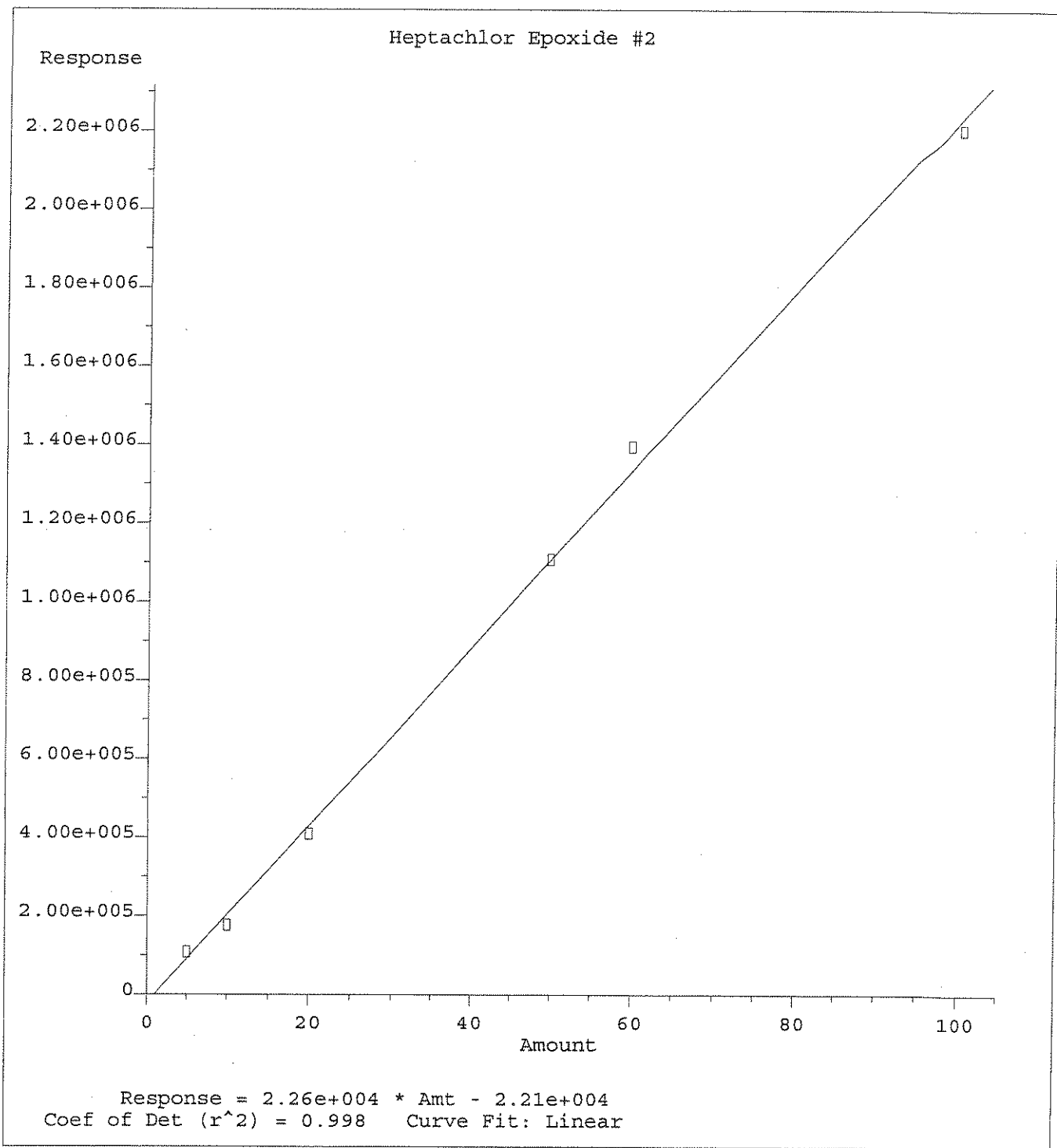
Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

Aldrin #2

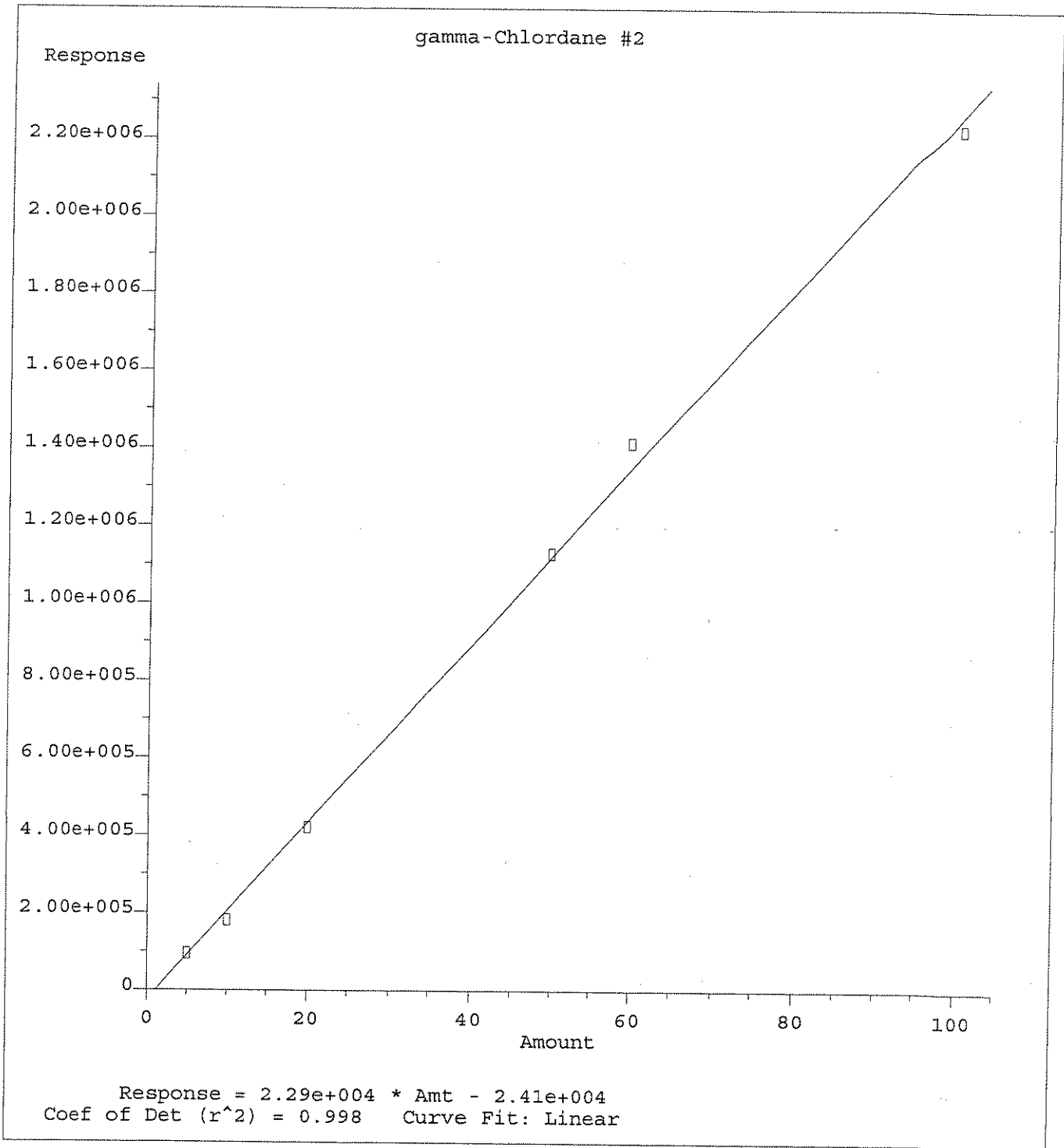


Response =  $2.41e+004 * Amt - 5.54e+004$   
Coef of Det ( $r^2$ ) = 0.999 Curve Fit: Linear

Method Name: Q:\SVOA\GC3 GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

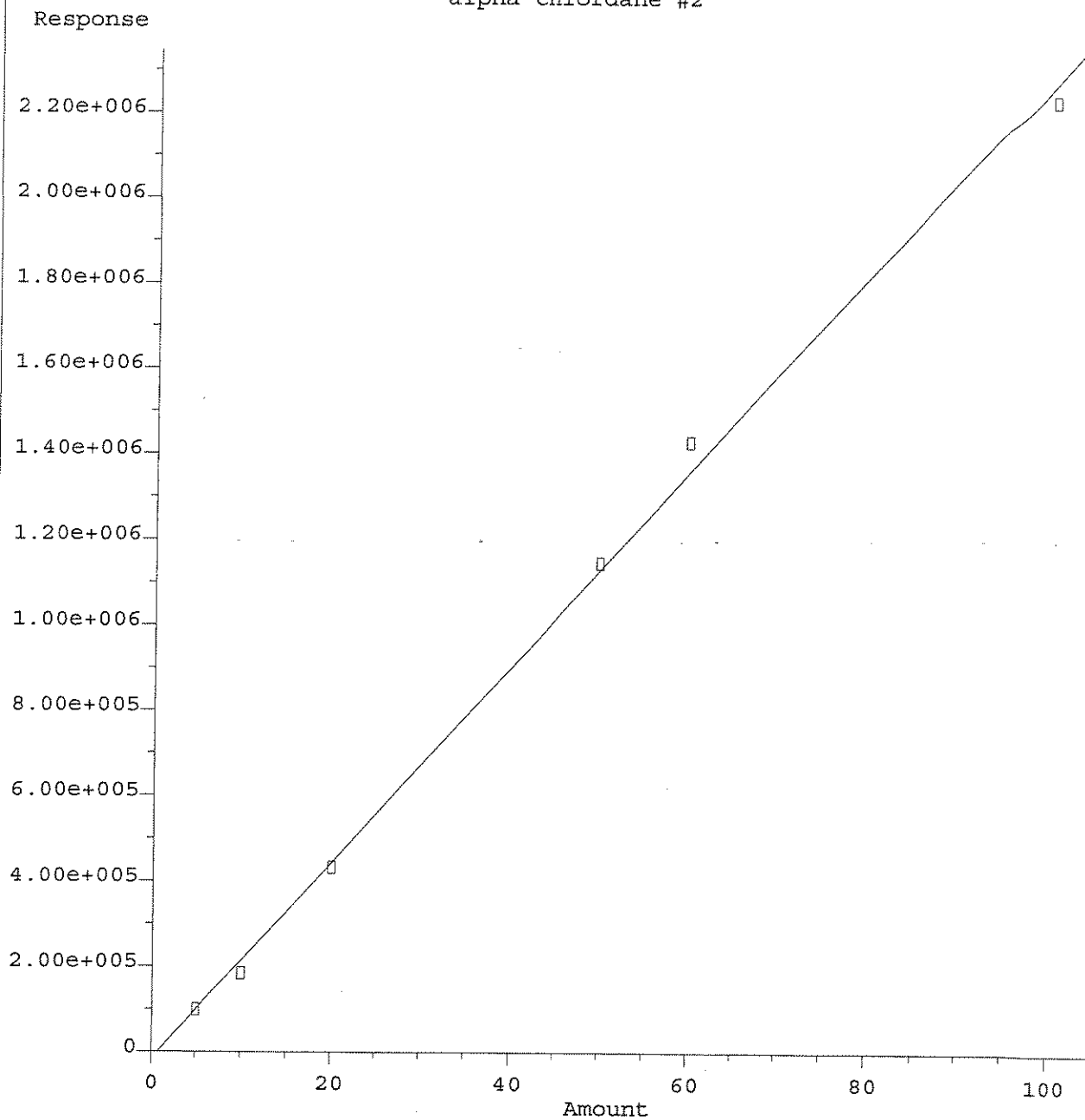


Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

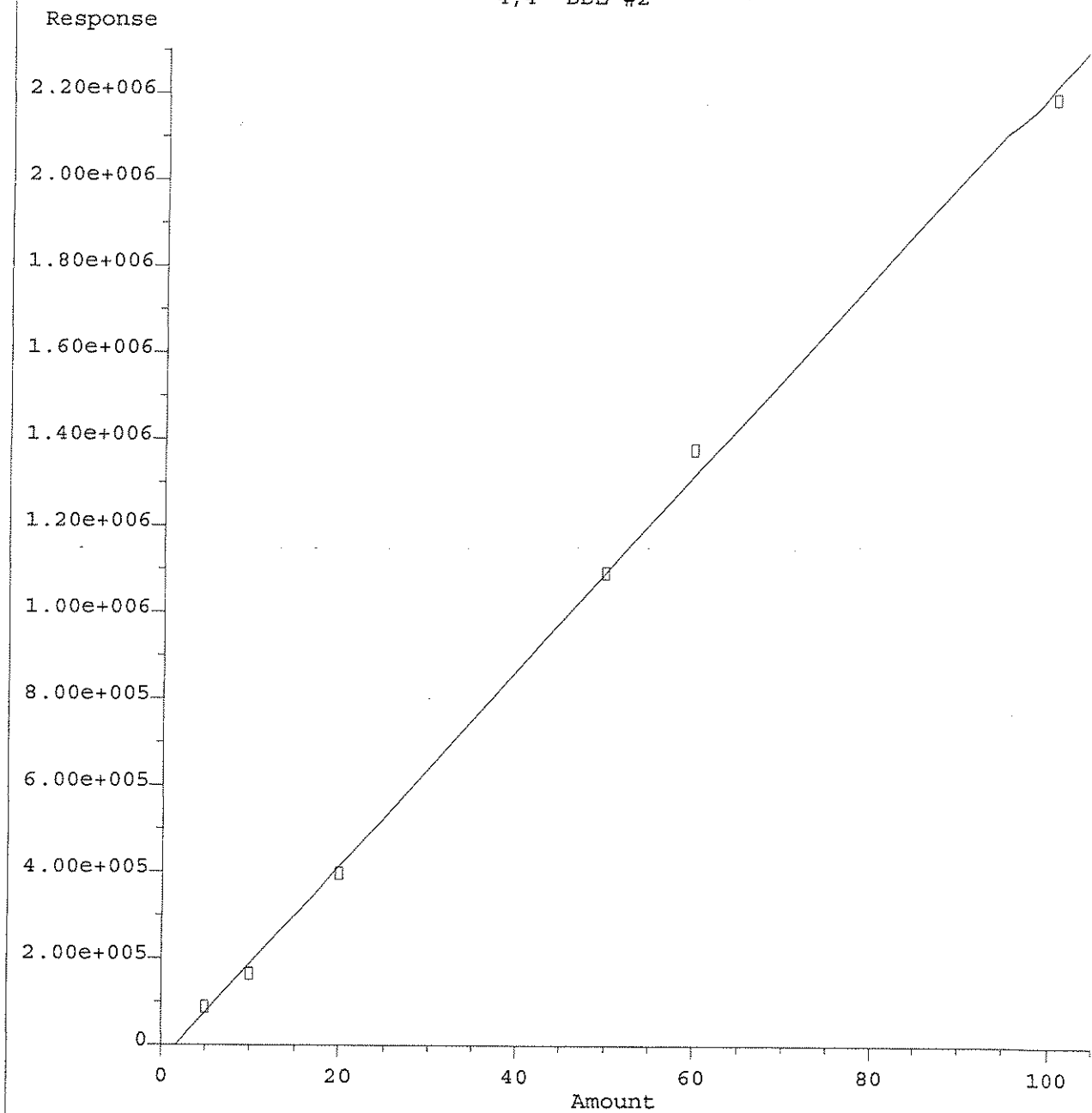
alpha-Chlordane #2



Response = 2.29e+004 \* Amt - 1.60e+004  
Coef of Det (r^2) = 0.998    Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

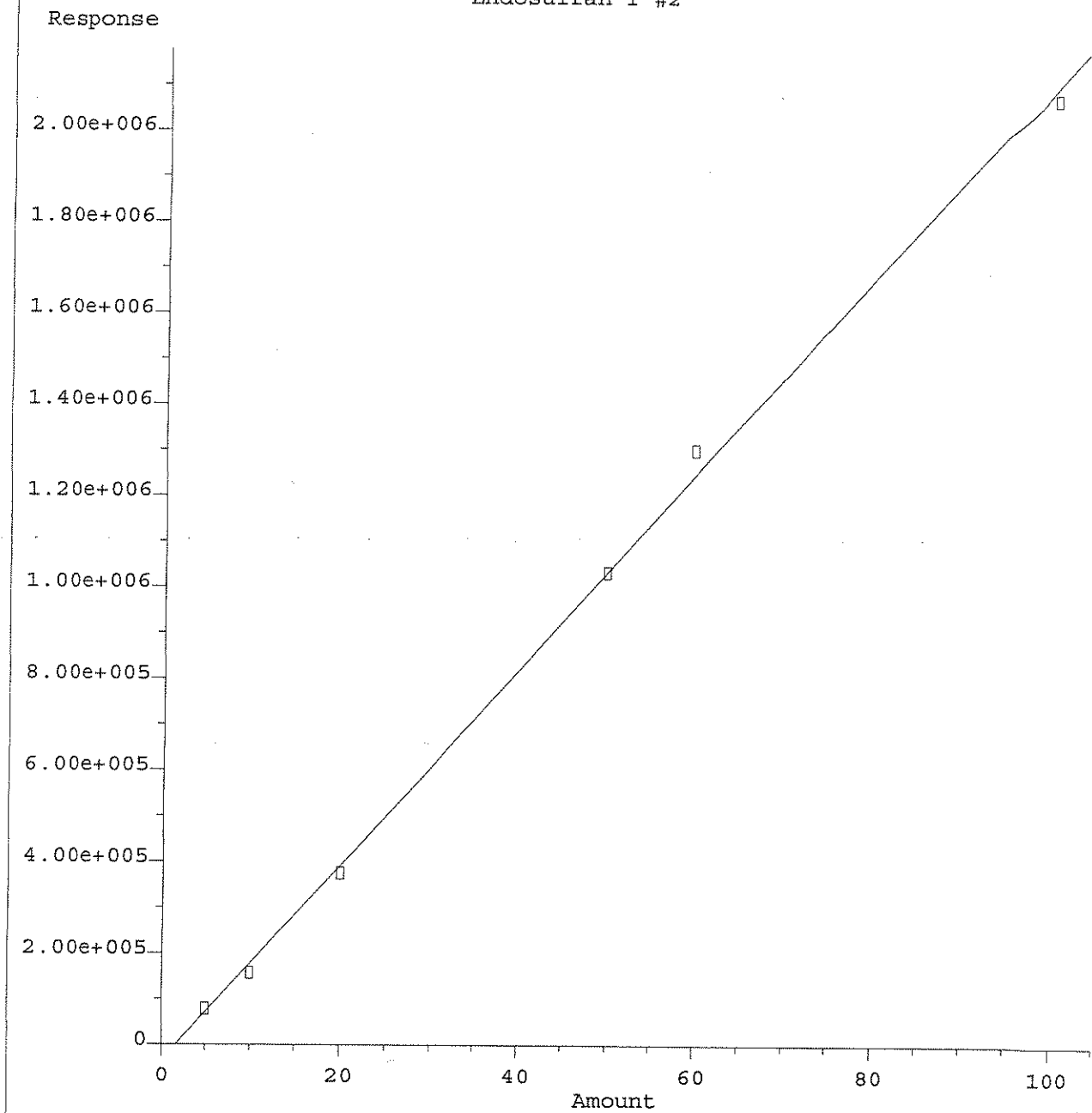
4,4'-DDE #2



Response = 2.26e+004 \* Amt - 3.79e+004  
Coef of Det (r^2) = 0.998 Curve Fit: Linear

Method Name: Q:\SVOA\GC3 GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

Endosulfan I #2

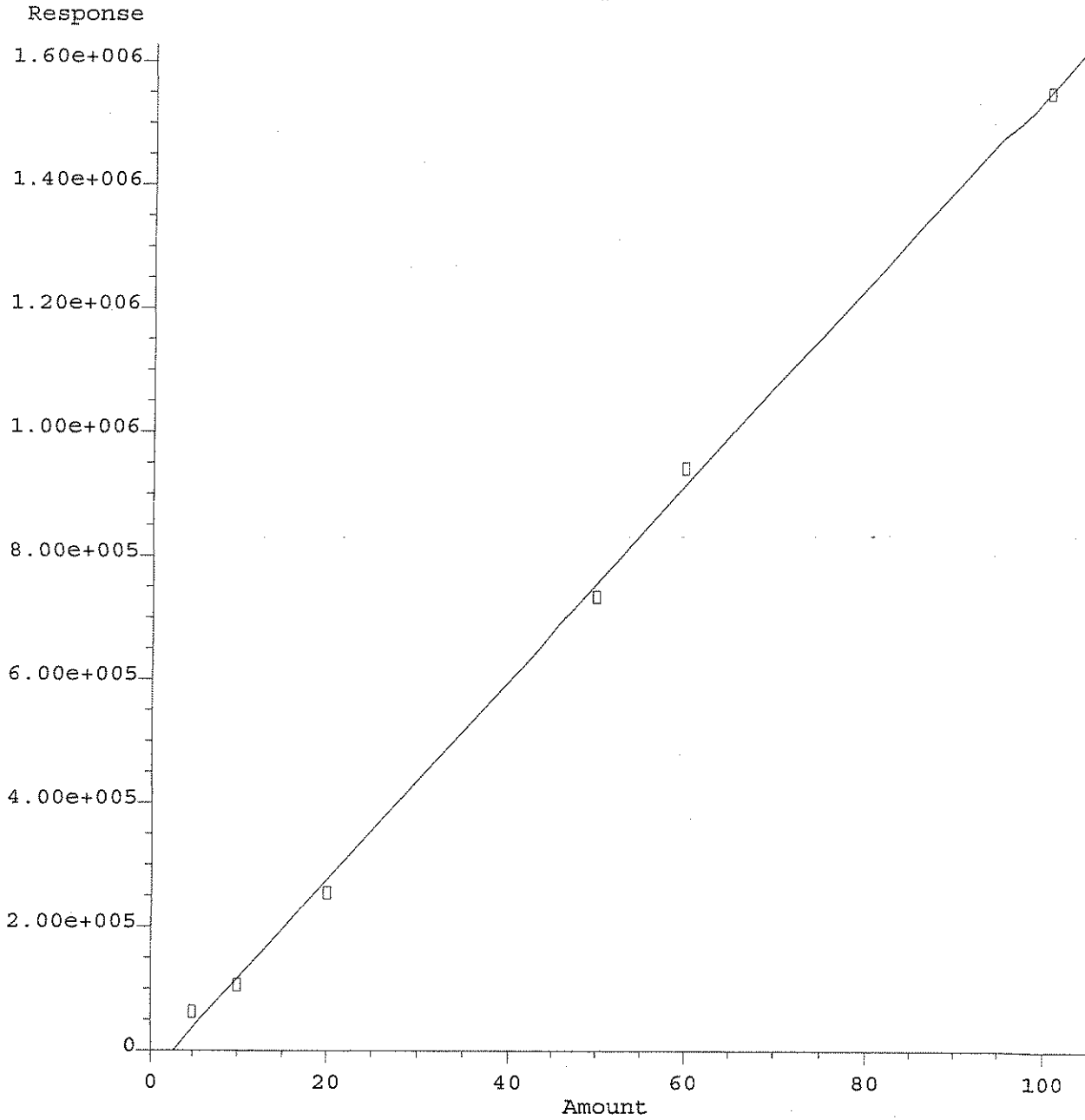


Response = 2.14e+004 \* Amt - 3.70e+004  
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



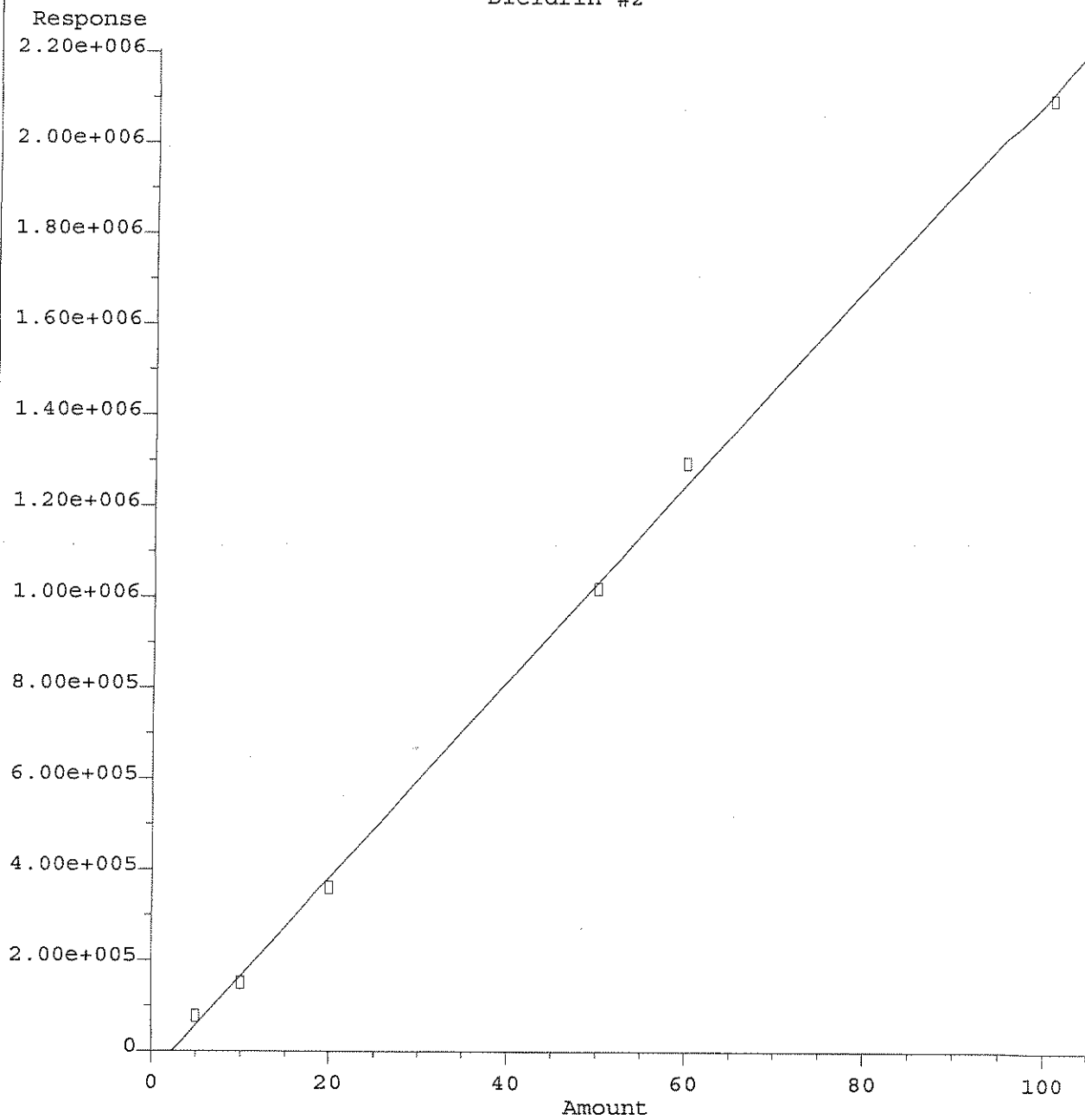
Endrin #2



Response = 1.60e+004 \* Amt - 4.38e+004  
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

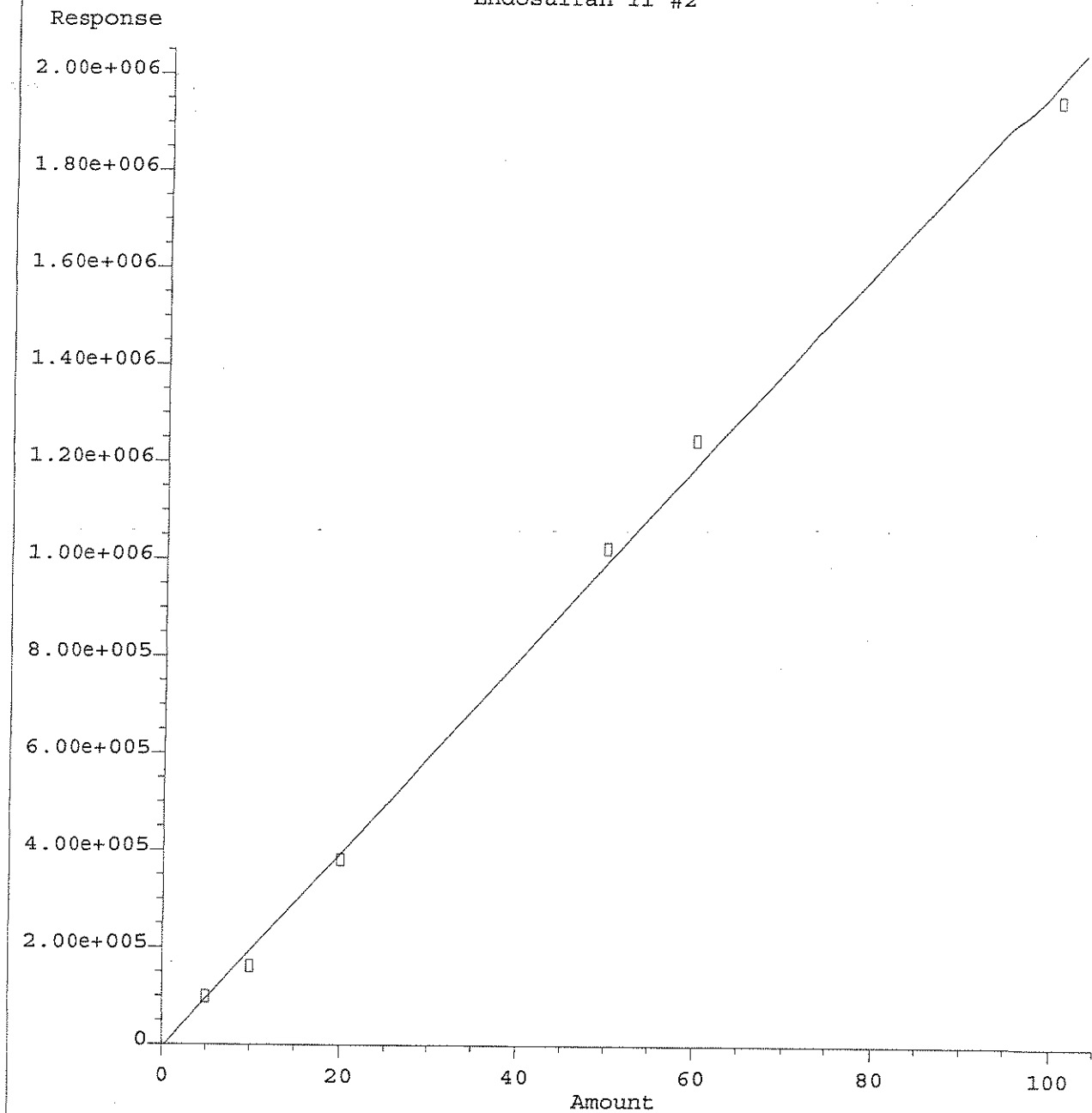
Dieldrin #2



Response = 2.17e+004 \* Amt - 5.14e+004  
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

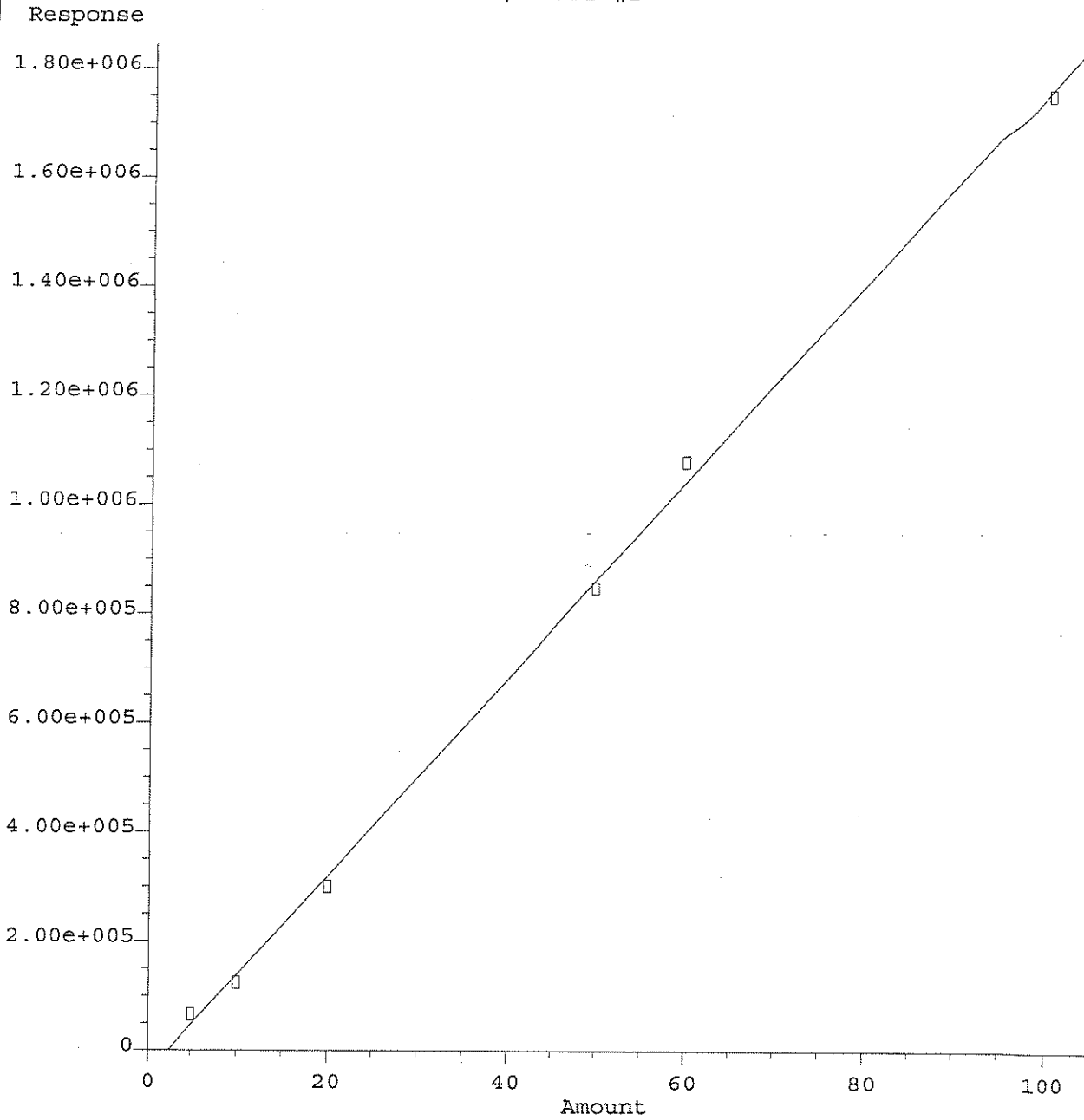
Endosulfan II #2



Response = 2.00e+004 \* Amt - 5.23e+003  
Coef of Det (r^2) = 0.997 Curve Fit: Linear

Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

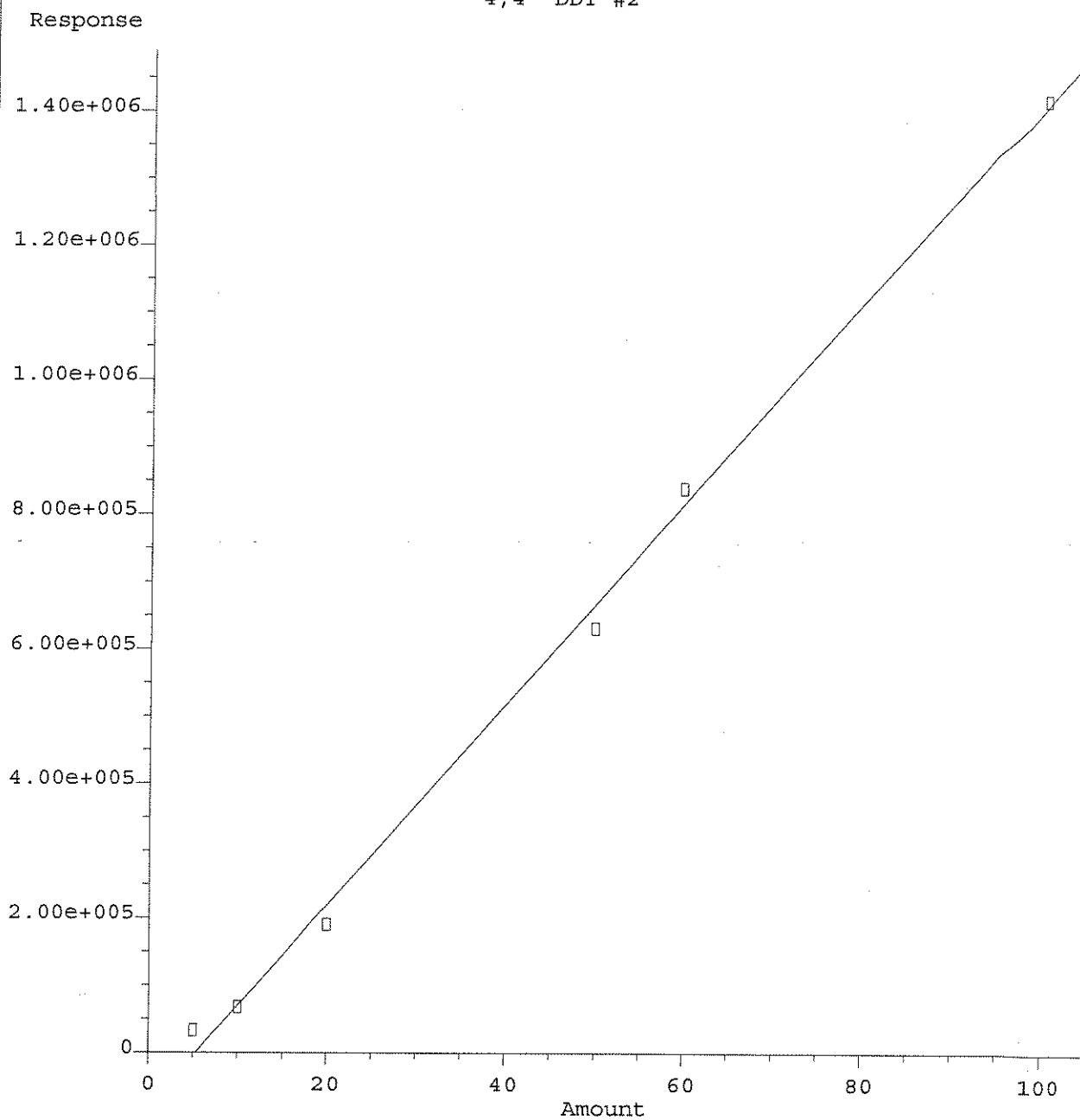
4,4'-DDD #2



Response =  $1.81e+004 * Amt - 4.39e+004$   
Coef of Det ( $r^2$ ) = 0.999    Curve Fit: Linear

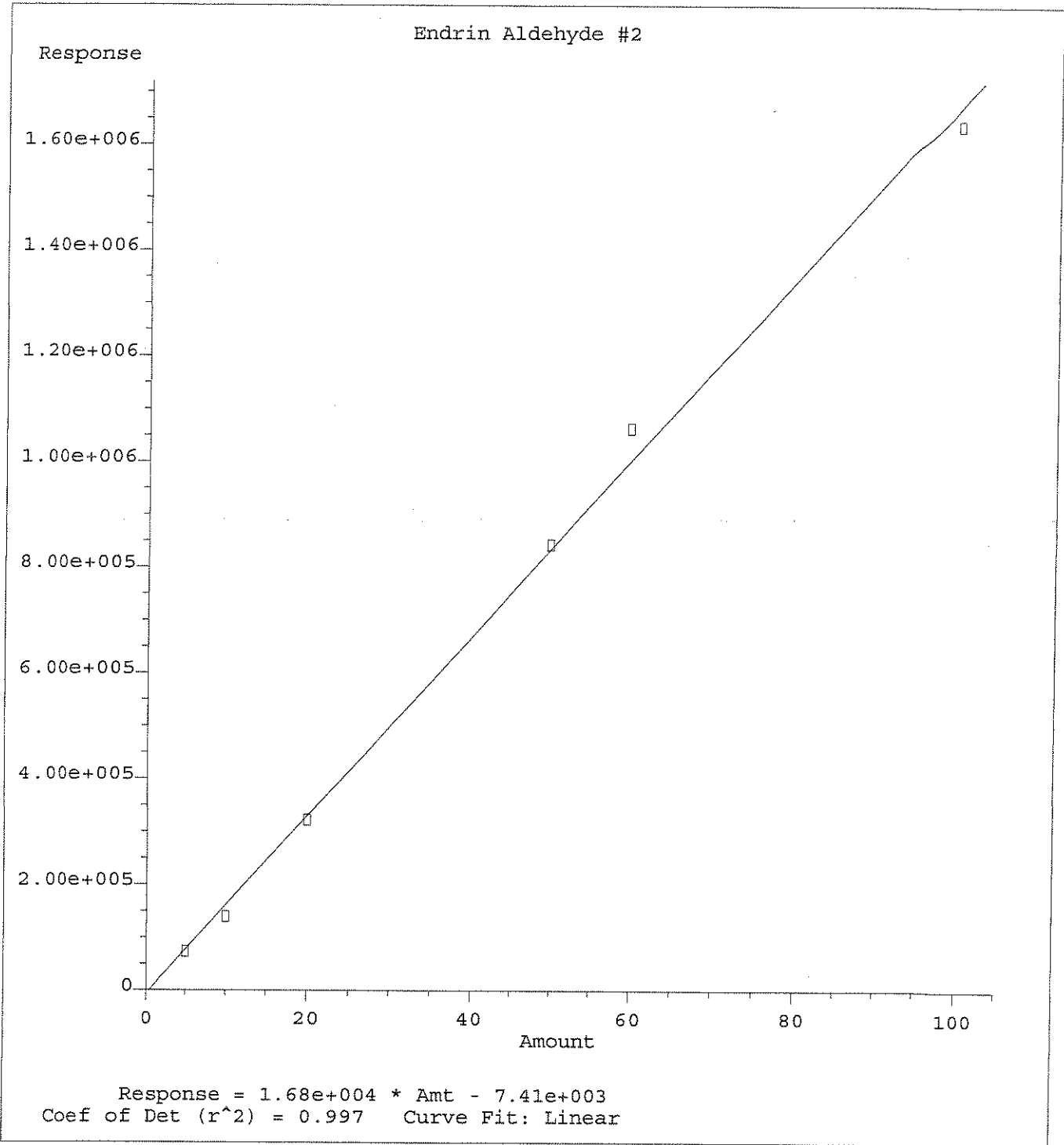
Method Name: Q:\SVOA\GC3 GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

4,4'-DDT #2

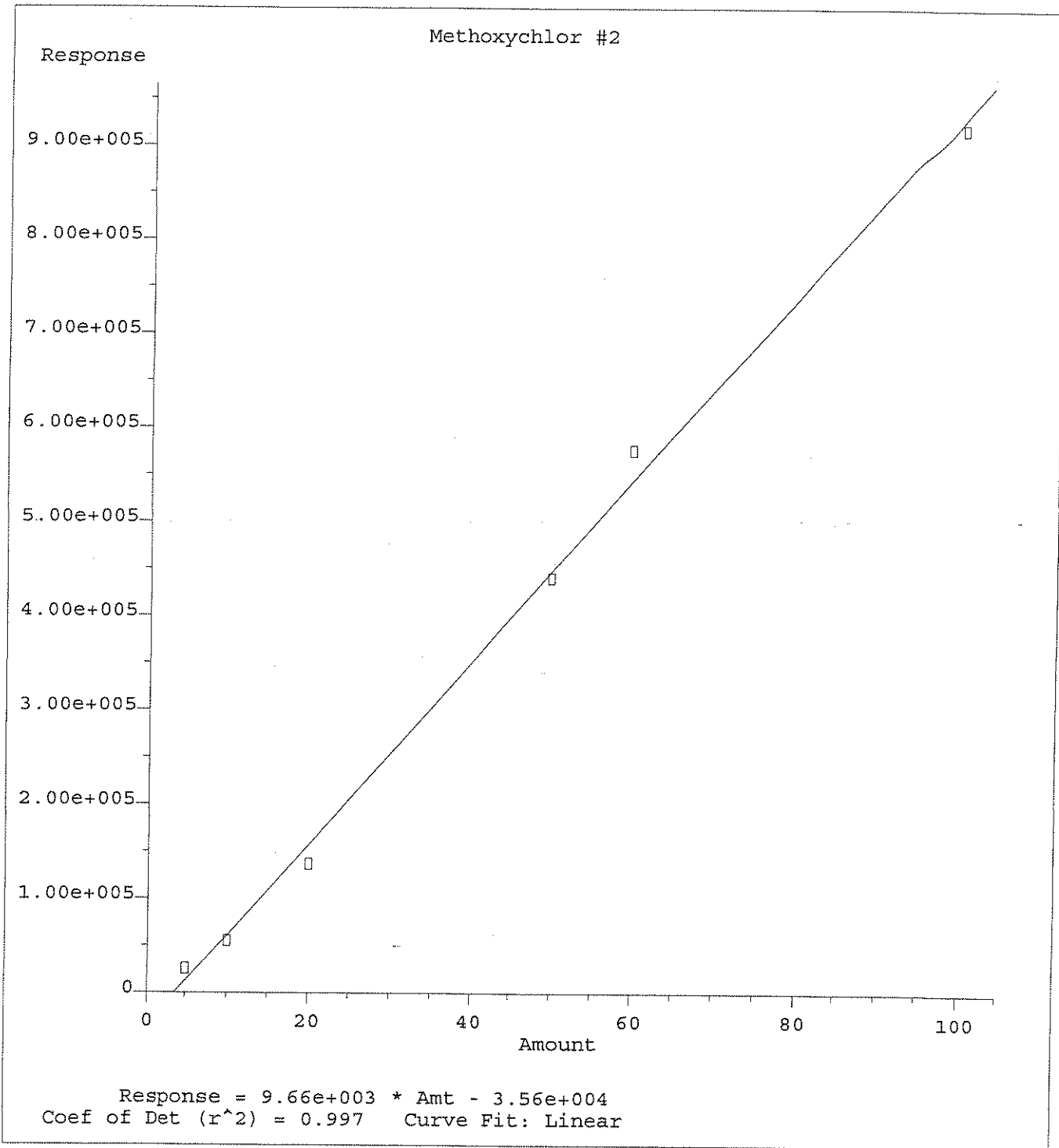


Response = 1.49e+004 \* Amt - 7.82e+004  
Coef of Det (r^2) = 0.997 Curve Fit: Linear

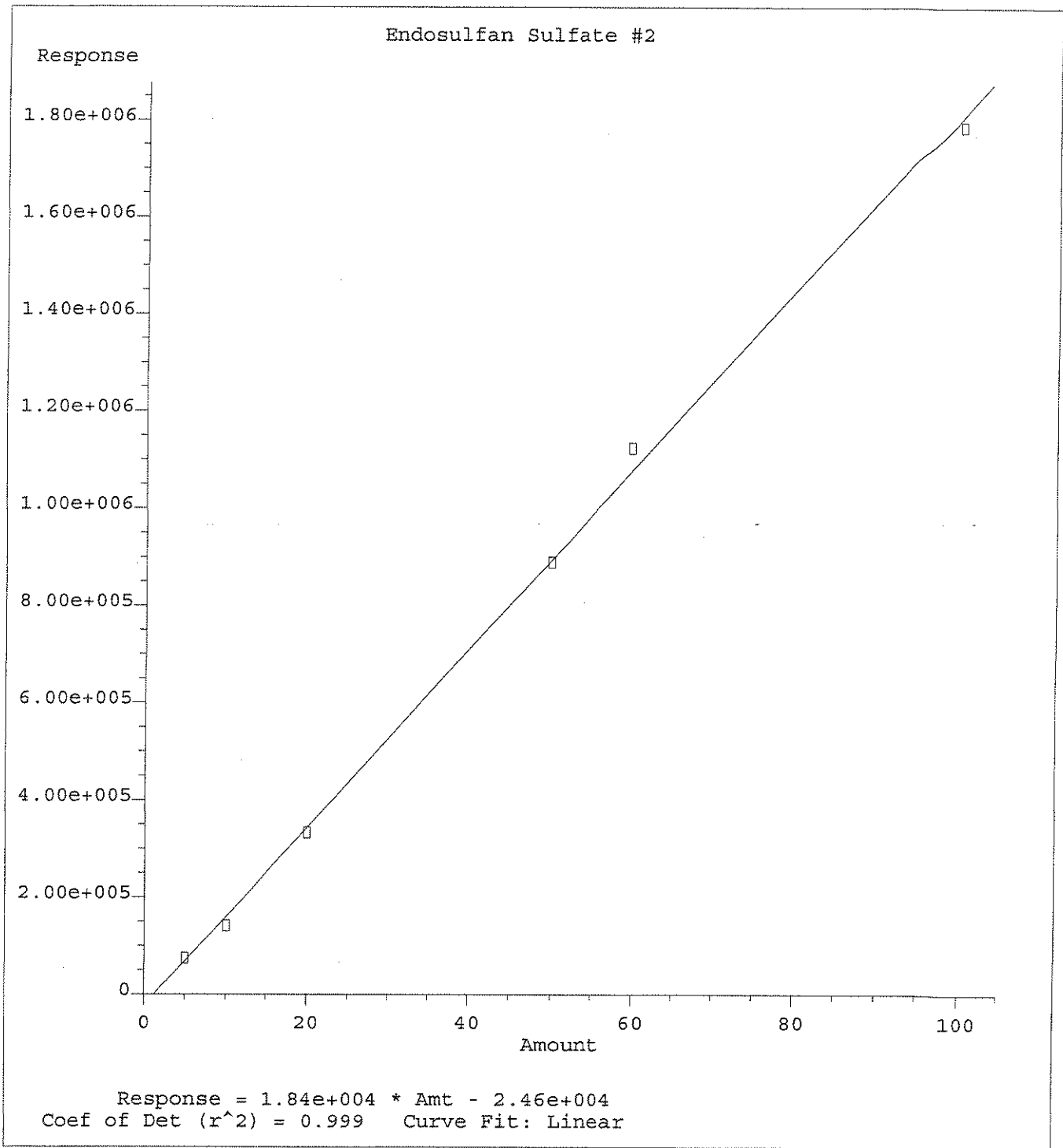
Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

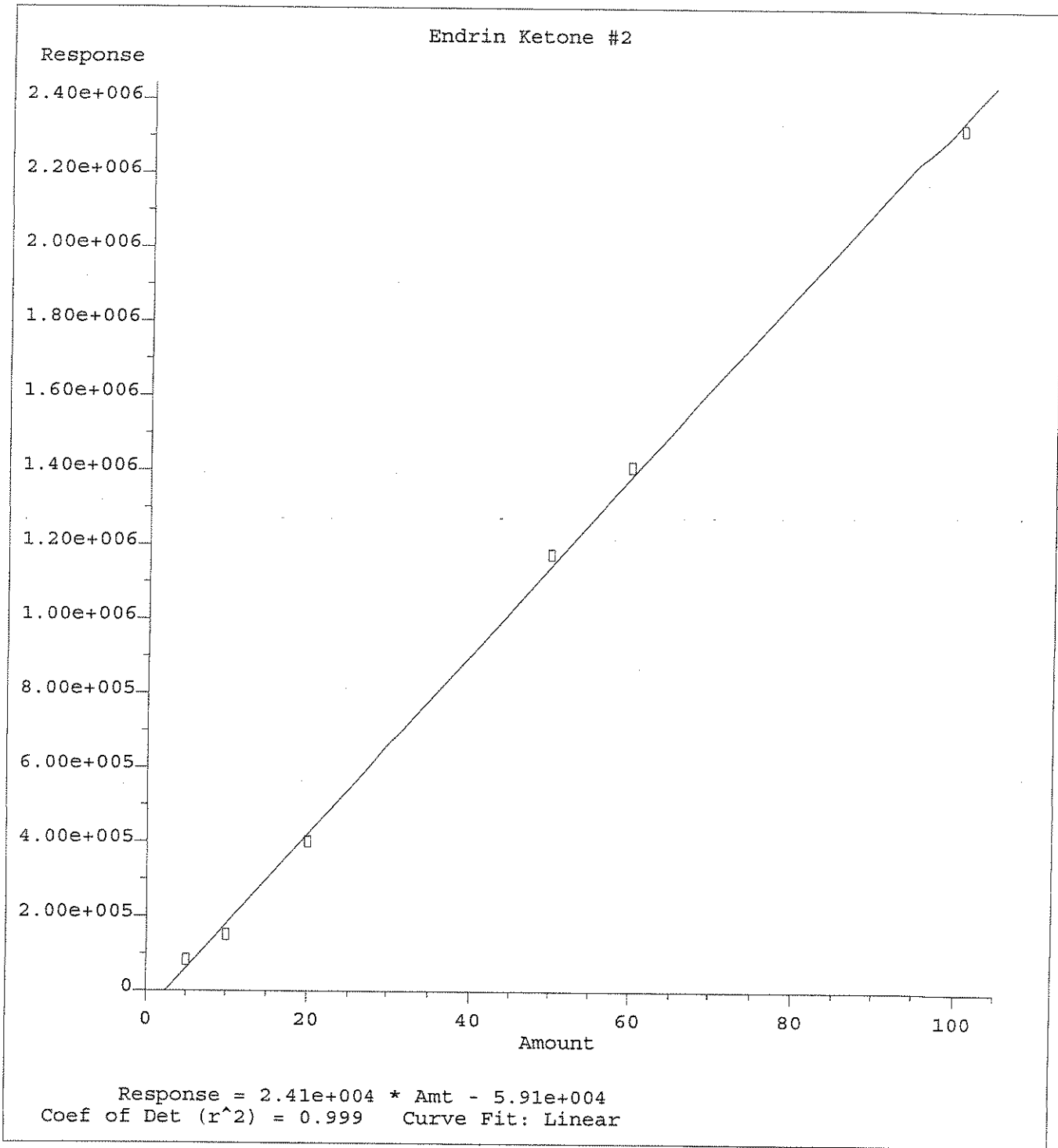


Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

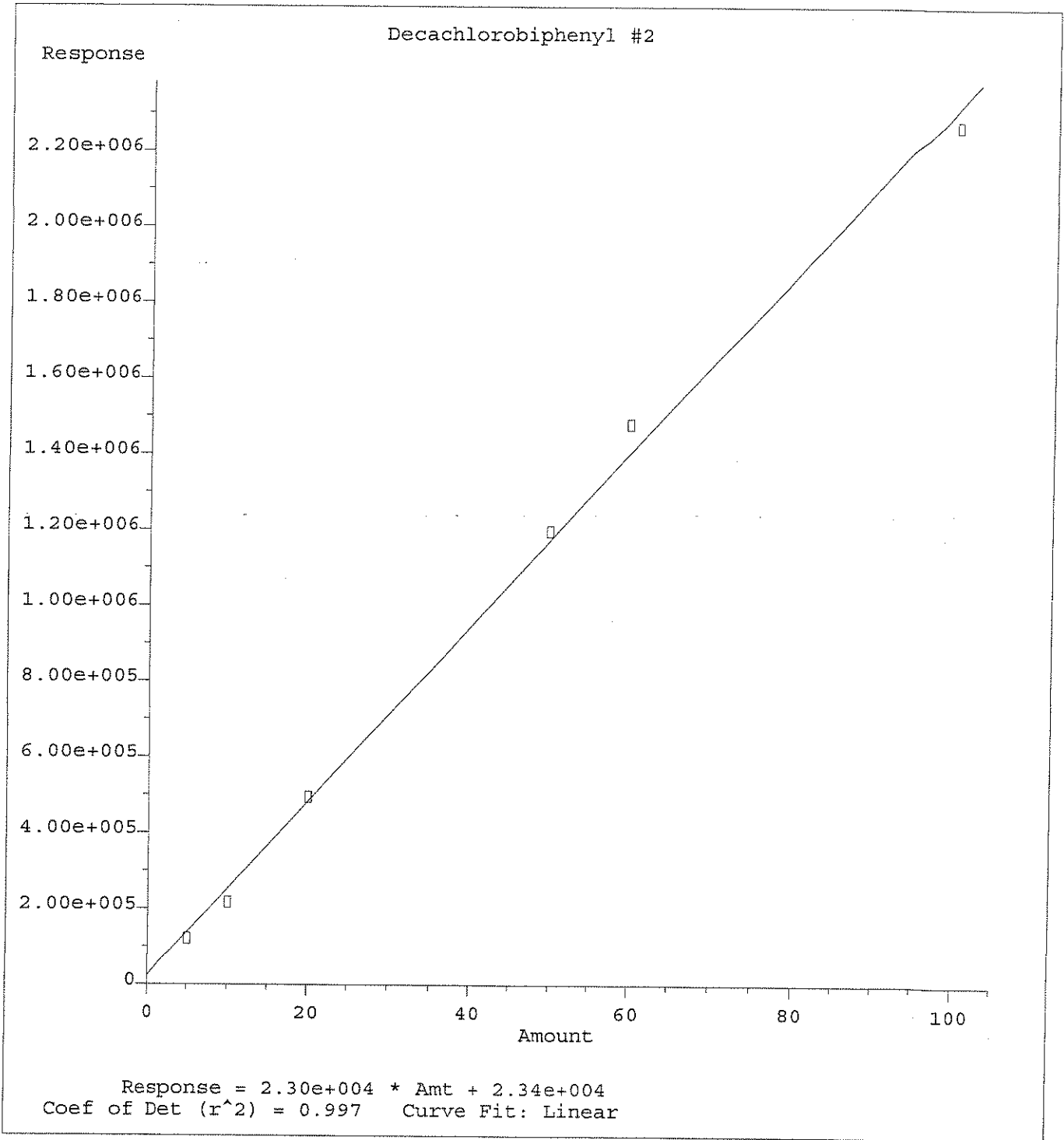


Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006





Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006



Method Name: Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Calibration Table Last Updated: Thu Jun 22 06:59:52 2006

## ANALYSIS SEQUENCE

BPG0295

Instrument: SVOAGC3

Calibration ID: UNASSIGNED 8081 EH

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0295-PEM1	QC		1		6E02036		
BPG0295-CCV1	QC		2		6F26099		
BF62329-BLK1	QC		3				
BF62329-BS1	QC		4				
BF62329-BSD1	QC		5				
0606373-01	SVOC: 8082 ppb PCB	A	6				MACTEC Engineering & Consulting, In
0606373-03	SVOC: 8082 ppb PCB	A	7				MACTEC Engineering & Consulting, In
0606373-05	SVOC: 8082 ppb PCB	A	8				MACTEC Engineering & Consulting, In
0606373-07	SVOC: 8082 ppb PCB	A	9				MACTEC Engineering & Consulting, In
0606373-09	SVOC: 8082 ppb PCB	A	10				MACTEC Engineering & Consulting, In
0606373-12	SVOC: 8082 ppb PCB	A	11				MACTEC Engineering & Consulting, In
0606373-14	SVOC: 8082 ppb PCB	A	12				MACTEC Engineering & Consulting, In
0606373-16	SVOC: 8082 ppb PCB	A	13				MACTEC Engineering & Consulting, In
BF62329-MS1	QC		14				
BF62329-MSD1	QC		15				
BPG0295-PEM2	QC		16		6E02036		
BPG0295-CCV2	QC		17		6F26099		
0606373-18	SVOC: 8082 ppb PCB	A	18				MACTEC Engineering & Consulting, In
0606373-20	SVOC: 8082 ppb PCB	A	19				MACTEC Engineering & Consulting, In
BPG0295-CCV3	QC		20		6F26099		

\* SVOC: 8081 ppb Pesticide

Samples Loaded By

Date

Data Processed By

Date

ESS LABORATORY  
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/23/06	25	6E062306-25	BFG2315-BIKI	SORTEN	TKLP	SK
	26	26	BS1			
	27	27	BSD1			
	28	28	0606310-01			
	29	29	02			
	30	30	02MS			
	31	31	03			
	32	32	04			
	33	33	05			
	34	34	06			
	35	35	07			
	11	11	Pest SD CL		6F23069 2:24 AM	
6/23/06	11	11	Pest SD CL	SORTEN		SK
6/26/06	1	6E062606-01	Prime			SK
	2	02	Pem		6E02036 ref: BPG0295 09:34 AM	
	3	03	Pest SD CL		6F26099 10:02 AM	
	3	03	Pest SD CL		L 699	
	4	04	chlor 250		6F26100	
	5	05	BFG2333-BIKI			
	6	06	BS1			
	7	07	BSD1			
	8	08	0606372-03			
	9	09	BFG2329-BIKI			
	10	10	BS1			
	11	11	BSD1			
6/26/06	12	6E062606-12	0606373-01	SORTEN		SK

CONTROL NUMBER 60.0012-0602A

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ESS LABORATORY  
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/26/06	13	6E062586-13	0606373-03	✓ 8081EH		SJP
	14	14	05	✓		
	15	15	07	✓		
	16	16	09	✓	(R2)	
	17	17	12	✓		
	18	18	14	✓		
	19	19	16	✓		
	20	20	16MSD	✓		
	21	21	↓ 16MSD	✓		
	1	1	Hexane			
	2	2	Pent	✓		
	3	3	Pest 50 CC	✓	7:53 PM	
	3	3	Pest 50 CC	✓	6F26099 8:21 PM	
	4	4	Chlor 250 ml	✓	↓ 099	
	22	22	0606373-18	✓	6F26100	
	23	23	20	✓		
	24	24	0606374-01	✓		
	25	25	03	✓		
	26	26	05	✓		
	27	27	07	✓		
	28	28	09	✓		
	29	29	11	✓		
	30	30	13	✓		
	31	31	↓ 15	✓		
	32	32	Hexane			
	03	03	Pest 50 CC	✓	6F26099	
	03	03	Pest 50 CC	✓	↓ 099	2:25 AM
	04	6E062460-01	Chlor 250 ml	✓ 8081EH	6F26100	2:50 AM

CONTROL NUMBER 60.0012-0602A

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Signal #1 : Q:\SVOA\GC3\_GE\DATA\GE062606\002F0101.D Vial: 2  
 Signal #2 : Q:\SVOA\GC3\_GE\DATA\GE062606\002F0101.D\002R0101.D  
 Acq On : 26 Jun 06 09:34 AM Operator: [GC]2R0101.D\DATA.MS  
 Sample : PEM Inst : GC3  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 26 11:05 19106

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Title :  
 Last Update : Thu Jun 22 06:59:52 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 3 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xylene	7.63	8.75	2963709	1044618	48.596	47.629
			Recovery =		97.19%	95.26%
23) S Decachlorobiphenyl	18.12	20.76	1725777	852478	38.197m	36.037
			Recovery =		76.39%	72.07%
Target Compounds						
2) M Hexachlorobenzene	0.00	0.00	0	0	N.D.	N.D.
3) M alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
4) M gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.d	N.D.d
5) M beta-BHC	0.00	0.00	0	0	N.D.	N.D.
6) M delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7) M Heptachlor	0.00	0.00	0	0	N.D.d	N.D.d
8) M Aldrin	0.00	0.00	0	0	N.D.	N.D.
9) M Heptachlor Epoxide	0.00	0.00	0	0	N.D.d	N.D.d
0) M gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
1) M alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
2) M 4,4'-DDE	0.00	0.00	0	0	N.D.d	N.D.d
3) M Endosulfan I	0.00	0.00	0	0	N.D.d	N.D.d
4) M Dieldrin	0.00	0.00	0	0	N.D.d	N.D.d
5) M Endrin	14.04	15.35	4749513	1601775	116.206m	103.059m
6) M 4,4'-DDD	14.16	15.47	153854	85679	4.156m	7.157m#
7) M Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
8) M 4,4'-DDT	14.60	15.99	4527356	1558222	116.384	109.877
9) M Endrin Aldehyde	15.13	16.25	15917	7514	1.377m	0.887m#
0) M Methoxychlor	0.00	0.00	0	0	N.D.d	N.D.d
1) M Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
2) M Endrin Ketone	16.32	17.81	249218	87351	6.222	6.082m

$$\Sigma \frac{265135}{5814648} = 5.28\%$$

$$\text{DDT} \frac{153854}{4681210} = 3.29\%$$

$$\Sigma \frac{94865}{1696640} = 5.59\%$$

$$\text{DDT} \frac{85679}{1643901} = 5.21\%$$

Signal #1 : Q:\SVOA\GC3\_GE\DATA\GE062606\003F0101.D Vial: 3  
 Signal #2 : Q:\SVOA\GC3\_GE\DATA\GE062606\003F0101.D\003R0101.D  
 Acq On : 26 Jun 06 10:02 AM Operator: [GC]3R0101.D\DATA.MS  
 Sample : PEST 50CC Inst : GC3  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 26 11:01 19106

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Title :  
 Last Update : Thu Jun 22 06:59:52 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 3 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xylen	7.63	8.75	3054860	1074785	50.087	48.987
			Recovery	=	100.17%	97.97%
13) S Decachlorobiphenyl	18.12	20.76	2418639	1204160	53.754m	51.323
			Recovery	=	107.51%	102.65%
Target Compounds						
2) M Hexachlorobenzene	8.64	9.92	4991605	1893038	51.884m	50.571
3) M alpha-BHC	9.07	10.25	3820067	1273884	51.867m	47.423
4) M gamma-BHC (Lindane)	9.79	11.03	3612633	1240020	52.722	48.580
5) M beta-BHC	10.01	11.21	1871221	675317	53.248	49.683
6) M delta-BHC	10.38	11.80	3526055	1156415	52.065	46.629
7) M Heptachlor	10.78	11.95	3324889	1145725	53.385	49.309
8) M Aldrin	11.37	12.58	3250591	1118788	53.473m	48.751
9) M Heptachlor Epoxide	12.52	13.64	3085037	1105882	54.525	49.927
0) M gamma-Chlordane	12.74	13.97	3145800	1138148	54.571	50.776
1) M alpha-Chlordane	12.98	14.22	2964795	1153008	54.424	50.942
2) M 4,4'-DDE	13.11	14.46	2814013	1108442	51.804	50.697
3) M Endosulfan I	13.22	14.35	3100120	1035266	55.063	50.160
4) M Dieldrin	13.64	14.82	2821658	1010728	53.532	48.978
5) M Endrin	14.04	15.35	2130985	700476	52.337	46.611
6) M 4,4'-DDD	14.13	15.45	2558099	869973	56.093	50.463
7) M Endosulfan II	14.43	15.70	2446948	960683	54.086m	48.297
8) M 4,4'-DDT	14.60	15.99	1886999	612382	49.365	46.369
9) M Endrin Aldehyde	15.13	16.27	1963871	867185	54.277	51.980
0) M Methoxychlor	15.38	17.15	1005703	423359	48.997	47.503
1) M Endosulfan Sulfate	15.86	16.78	2185776	885965	52.200m	49.620
2) M Endrin Ketone	16.34	17.84	2700680	1160730	55.047	50.649m

Signal #1 : Q:\SVOA\GC3\_GE\DATA\GE062606\002F0301.D Vial: 2  
 Signal #2 : Q:\SVOA\GC3\_GE\DATA\GE062606\002F0301.D\002R0301.D  
 Acq On : 26 Jun 06 07:53 PM Operator: [GC]2R0301.D\DATA.MS  
 Sample : PEM Inst : GC3  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 27 8:00 19106

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Title :  
 Last Update : Thu Jun 22 06:59:52 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 3 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xylen	7.63	8.75	2993422	1031934	49.082	47.058
			Recovery	=	98.16%	94.12%
13) S Decachlorobiphenyl	18.12	20.76	1750403	863712	38.750m	36.525
			Recovery	=	77.50%	73.05%
Target Compounds						
2) M Hexachlorobenzene	0.00	0.00	0	0	N.D.	N.D.
3) M alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
4) M gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.
5) M beta-BHC	0.00	0.00	0	0	N.D.	N.D.
6) M delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7) M Heptachlor	0.00	0.00	0	0	N.D.	N.D.
8) M Aldrin	0.00	0.00	0	0	N.D.	N.D.
9) M Heptachlor Epoxide	0.00	0.00	0	0	N.D.d	N.D.d
10) M gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11) M alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
12) M 4,4'-DDE	0.00	0.00	0	0	N.D.d	N.D.d
13) M Endosulfan I	0.00	0.00	0	0	N.D.d	N.D.d
14) M Dieldrin	0.00	0.00	0	0	N.D.d	N.D.d
15) M Endrin	14.04	15.35	4860207	1622706	118.906m	104.369m
16) M 4,4'-DDD	14.15	15.46	137679	69619	3.806m	6.270m#
17) M Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18) M 4,4'-DDT	14.60	15.98	4074200	1485962	104.882	105.025
19) M Endrin Aldehyde	15.11	16.25	8147	6185	1.166m	0.808m#
20) M Methoxychlor	0.00	0.00	0	0	N.D.d	N.D.d
21) M Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22) M Endrin Ketone	16.33	17.82	279846	104688	6.832	6.802m

$$\Sigma \frac{287993}{5148200} = 5.59\% \quad \text{DDT} \quad \frac{137679}{4211879} = 3.27\%$$

$$\Sigma \frac{110873}{1733579} = 6.40\% \quad \text{DDT} \quad \frac{69619}{1505131} = 4.63\%$$



Signal #1 : Q:\SVOA\GC3\_GE\DATA\GE062606\003F0301.D Vial: 3  
 Signal #2 : Q:\SVOA\GC3\_GE\DATA\GE062606\003R0301.D\003R0301.D  
 Acq On : 26 Jun 06 08:21 PM Operator: [GC]3R0301.D\DATA.MS  
 Sample : PEST 50CC Inst : GC3  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 27 7:46 19106

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Title :  
 Last Update : Thu Jun 22 06:59:52 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 3 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xylen	7.63	8.75	3121102	1075752	51.170	49.030
			Recovery	=	102.34%	98.06%
3) S Decachlorobiphenyl	18.12	20.76	2456384	1215549	54.601m	51.818
			Recovery	=	109.20%	103.64%
Target Compounds						
2) M Hexachlorobenzene	8.64	9.92	4696317	1908580	48.709	50.995
3) M alpha-BHC	9.07	10.25	3923843	1287121	53.241	47.872
4) M gamma-BHC (Lindane)	9.79	11.03	3633481	1262185	53.021	49.389
5) M beta-BHC	10.01	11.21	1914237	682434	54.469	50.196
6) M delta-BHC	10.38	11.80	3606975	1172619	53.225	47.230
7) M Heptachlor	10.78	11.94	3314792	1108974	53.225	47.812
8) M Aldrin	11.37	12.58	3274178	1127820	53.861	49.126
9) M Heptachlor Epoxide	12.52	13.63	3079181	1109818	54.421	50.101
0) M gamma-Chlordane	12.74	13.97	3146183	1140112	54.577	50.862
1) M alpha-Chlordane	12.98	14.22	2928689	1154321	53.753	51.000
2) M 4,4'-DDE	13.11	14.46	2817614	1111081	51.870	50.814
3) M Endosulfan I	13.22	14.35	3116542	1037851	55.351	50.281
4) M Dieldrin	13.64	14.82	2774920	1012483	52.650	49.059
5) M Endrin	14.04	15.35	2178394	716365	53.494	47.606
6) M 4,4'-DDD	14.13	15.45	2555283	861173	56.032	49.977
7) M Endosulfan II	14.42	15.70	2504265	959082	55.339m	48.217
8) M 4,4'-DDT	14.60	15.98	1842492	613840	48.236	46.467
9) M Endrin Aldehyde	15.13	16.27	1926328	837940	53.257	50.242
0) M Methoxychlor	15.38	17.15	1020574	420929	49.690	47.252
1) M Endosulfan Sulfate	15.86	16.78	2181536	884263	52.099	49.527
2) M Endrin Ketone	16.34	17.84	2610257	1215126	53.246	52.907

Signal #1 : Q:\SVOA\GC3\_GE\DATA\GE062606\003F0601.D Vial: 3  
 Signal #2 : Q:\SVOA\GC3\_GE\DATA\GE062606\003F0601.D\003R0601.D  
 Acq On : 27 Jun 06 02:25 AM Operator: [GC]3R0601.D\DATA.MS  
 Sample : PEST 50CC Inst : GC3  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 27 11:46 19106

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
 Title :  
 Last Update : Thu Jun 22 06:59:52 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 3 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xylene	7.63	8.75	3190880	1087943	52.311	49.579
			Recovery	=	104.62%	99.16%
23) S Decachlorobiphenyl	18.12	20.76	2565161	1209821	57.044m	51.569
			Recovery	=	114.09%	103.14%
Target Compounds						
2) M Hexachlorobenzene	8.63	9.92	5175366	1907315	53.860m	50.960
3) M alpha-BHC	9.07	10.25	3933833	1259771	53.373	46.943
4) M gamma-BHC (Lindane)	9.79	11.03	3724710	1215431	54.329	47.683
5) M beta-BHC	10.01	11.21	1948627	659034	55.445	48.509
6) M delta-BHC	10.37	11.80	3559332	1136267	52.542	45.883
7) M Heptachlor	10.78	11.94	3033600	1021898	48.778	44.267
8) M Aldrin	11.37	12.58	3305148	1115651	54.370	48.620
9) M Heptachlor Epoxide	12.52	13.63	3003734	1105488	53.081	49.910
0) M gamma-Chlordane	12.74	13.97	3189697	1135630	55.332	50.666
1) M alpha-Chlordane	12.97	14.22	2934810	1152815	53.867	50.934
2) M 4,4'-DDE	13.11	14.46	2831063	1107468	52.119	50.654
3) M Endosulfan I	13.22	14.35	3091204	1040426	54.907	50.402
4) M Dieldrin	13.64	14.82	2715366	1014806	51.527	49.166
5) M Endrin	14.04	15.35	2171245	715126	53.319	47.528
6) M 4,4'-DDD	14.13	15.45	2588679	861174	56.754	49.977
7) M Endosulfan II	14.42	15.70	2288771	967160	50.630	48.621
8) M 4,4'-DDT	14.59	15.98	1439741	559267	38.013m	42.803m
9) M Endrin Aldehyde	15.13	16.27	1821421	769379	50.408	46.167
0) M Methoxychlor	15.38	17.15	879723	376843	43.122m	42.689
1) M Endosulfan Sulfate	15.86	16.78	2244546	894312	53.591m	50.075
2) M Endrin Ketone	16.34	17.84	2661387	1188821	54.264	51.815

ANALYSIS SEQUENCE

BPG0296

Instrument: SVOAGC3

Calibration ID: UNASSIGNED 8081EH

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0296-PEM1	QC		1		6E02036		
BPG0296-CCV1	QC		2		6F27062		
BPG0296-CCV2	QC <i>21.0 3/15/06</i>		3		6F27062		
0606373-09RE1	SVOC: 8082 ppb PCB <i>8081 A PEST</i>	A	4				MACTEC Engineering & Consulting, Inc

Samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

Data Prepared By 747 \_\_\_\_\_ Date \_\_\_\_\_



Signal #1 : Q:\SVOA\GC3\_GE\DATA\GE062706\002F0101.D Vial: 2  
Signal #2 : Q:\SVOA\GC3\_GE\DATA\GE062706\002F0101.D\002R0101.D  
Acq On : 27 Jun 06 10:16 AM Operator: [GC]2R0101.D\DATA.MS  
Sample : PEM Inst : GC3  
Misc : Multiplr: 1.00  
Quant Time: Jun 27 14:07 19106

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M  
Title :  
Last Update : Thu Jun 22 06:59:52 2006  
Response via : Multiple Level Calibration

Volume Inj. : 3 uL  
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
Signal #1 Info : 0.53 Signal #2 Info : 0.53

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xylen	7.61	8.73	2700636	908218	44.295	41.491
			Recovery	=	88.59%	82.98%
13) S Decachlorobiphenyl	18.09	20.72	-665609	715777	N.D.	30.095
			Recovery	=	0.00%	60.19%
Target Compounds						
2) M Hexachlorobenzene	0.00	0.00	0	0	N.D.	N.D.
3) M alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
4) M gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.
5) M beta-BHC	0.00	0.00	0	0	N.D.	N.D.
6) M delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7) M Heptachlor	0.00	0.00	0	0	N.D.d	N.D.d
8) M Aldrin	0.00	0.00	0	0	N.D.	N.D.
9) M Heptachlor Epoxide	0.00	0.00	0	0	N.D.	N.D.
10) M gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11) M alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
12) M 4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13) M Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
14) M Dieldrin	0.00	0.00	0	0	N.D.	N.D.
15) M Endrin	14.01	15.33	4554893	1506023	111.459m	97.062m
16) M 4,4'-DDD	14.12	15.45	118547	50433	3.393m	5.211m#
17) M Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18) M 4,4'-DDT	14.57	15.96	3544955	1353931	91.449	96.160
19) M Endrin Aldehyde	15.13	16.26	8145	1891	1.166m	0.553m#
20) M Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21) M Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22) M Endrin Ketone	16.29	17.79	108073	44241	3.410	4.292m#

$$\Sigma \frac{116216}{467111} = 2.49\% \text{ DDT} \quad \frac{118547}{366352} = 3.23\%$$

$$\Sigma \frac{46132}{155215} = 2.97\% \text{ DDT} \quad \frac{50433}{1404364} = 3.59\%$$

Signal #1 : Q:\SVOA\GC3\_GE\DATA\GE062706\003F0101.D Vial: 3
Signal #2 : Q:\SVOA\GC3\_GE\DATA\GE062706\003F0101.D\003R0101.D
Acq On : 27 Jun 06 10:44 AM Operator: [GC]3R0101.D\DATA.MS
Sample : PEST 50CC Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 27 11:34 19106

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

Table with 7 columns: Compound, RT#1, RT#2, Resp#1, Resp#2, PPB, PPB. It lists System Monitoring Compounds (Tetrachloro-m-xylene, Decachlorobiphenyl) and Target Compounds (Hexachlorobenzene, alpha-BHC, gamma-BHC, beta-BHC, delta-BHC, Heptachlor, Aldrin, Heptachlor Epoxide, gamma-Chlordane, alpha-Chlordane, 4,4'-DDE, Endosulfan I, Dieldrin, Endrin, 4,4'-DDD, Endosulfan II, 4,4'-DDT, Endrin Aldehyde, Methoxychlor, Endosulfan Sulfate, Endrin Ketone).

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
003F0101.D 8081EH.M Tue Jun 27 11:34:55 2006

Signal #1 : Q:\SVOA\GC3\_GE\DATA\GE062706\006F0201.D Vial: 6
Signal #2 : Q:\SVOA\GC3\_GE\DATA\GE062706\006R0201.D\006R0201.D
Acq On : 27 Jun 06 12:36 PM Operator: [GC]6R0201.D\DATA.MS
Sample : PEST 50CC Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 27 14:10 19106

Method : Q:\SVOA\GC3\_GE\METHODS\8081EH.M
Title :
Last Update : Thu Jun 22 06:59:52 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

Table with 7 columns: Compound, RT#1, RT#2, Resp#1, Resp#2, PPB, PPB. Rows include System Monitoring Compounds (Tetrachloro-m-xylene, Decachlorobiphenyl) and Target Compounds (Hexachlorobenzene, alpha-BHC, gamma-BHC, etc.).

Handwritten note: 6/27/06 JH

# Pesticides Logbooks



# ESS Organic Preparation Logbook

Project #: 0606373-000334 Surrogate ID# 000334 Matrix Spike ID# 001 Split Extraction\*   
 Prep Date: 06/23/06 A: 0606373 D: 0605037 Extraction Time: \_\_\_\_\_  
 Batch ID: 0606373-000334 B: NA E: 0620098 Start: 1400  
 Extraction Method: 354 C: NA F: NA Finish: \_\_\_\_\_

\* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH<sub>2</sub>Cl<sub>2</sub>) is transferred as Volume 2.

ESS ID	Vol (ml) Wt (g)	Surrogate (ul or mg)	Matrix Spike (ul or mg)	Extract Vol (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Vol #1 (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Vol #2 (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Date	Bath Temp (C)	pH	Discard	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
PTX0606373-01	20.0	1	NA	10	10	NA	6/24/06	40	NA	NA		EM		JS
PTX0606373-02	20.0	1	1	10	10	1								
PTX0606373-03	20.0	1	1	10	10	1								
PTX0606373-04	20.0	1	1	10	10	1								
PTX0606373-05	20.1	1	NA	10	10	1								
PTX0606373-06	19.7	1	1	10	10	1								
PTX0606373-07	19.2	1	1	10	10	1								
PTX0606373-08	19.0	1	1	10	10	1								
PTX0606373-09	20.5	1	NA	10	10	1								
PTX0606373-10	20.1	1	1	10	10	1								
PTX0606373-11	19.9	1	1	10	10	1								
PTX0606373-12	20.7	1	NA	10	10	1								
PTX0606373-13	21.0	1	NA	10	10	1								
PTX0606373-14	21.0	1	1	10	10	1								
PTX0606373-15	21.0	1	1	10	10	1								
PTX0606373-16	21.0	1	NA	10	10	1								
PTX0606373-17	19.0	1	1	10	10	1								
PTX0606373-18	19.9	1	1	10	10	1								
PTX0606373-19	19.8	1	1	10	10	1								
PTX0606373-20	20.0	1	1	10	10	1								
PTX0606373-21	20.8	1	1	10	10	1								
PTX0606373-22	20.0	1	1	10	10	1								
PTX0606373-23	19.0	1	1	10	10	1								
PTX0606373-24	19.3	1	NA	10	10	NA	6/24/06	40	NA	NA		EM		JS

Analysis Performed: PCB  BIN SVOA  SVOA  LL PAH  PEST  TPH/GC  BIS-2  PAH

CH<sub>2</sub>Cl<sub>2</sub> lot # NA NaOH ID# NA  
 Hexane lot# 02914 Na<sub>2</sub>SO<sub>4</sub> ID# 060617060  
 Acetone lot# 01611  
 BATCH ID/Test: 0606373

Prepared By: EM Glasswool: 06061406 Method #(s): 001/002  
 Acid Washed  H<sub>2</sub>SO<sub>4</sub> ID# 06061406 Cu Cleaned:  Florisil:  Silica Column/Carbon prep:   
 Lot# NA Lot# NA Lot# 1808

\*\*Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A Page \_\_\_\_\_



PCB  
Data Package

# PCB Sample Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3101  
Date Sampled: 06/21/06 10:20  
Percent Solids: 24  
Initial Volume: 20.1  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-01  
Sample Matrix: Soil  
Analyst: JLS  
Prepared: 06/23/06

### 8082 Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Aroclor 1016	ND	ug/Kg dry	207	1	06/26/06
Aroclor 1221	ND	ug/Kg dry	207	1	06/26/06
Aroclor 1232	ND	ug/Kg dry	207	1	06/26/06
Aroclor 1242	ND	ug/Kg dry	207	1	06/26/06
Aroclor 1248	ND	ug/Kg dry	207	1	06/26/06
Aroclor 1254	ND	ug/Kg dry	207	1	06/26/06
Aroclor 1260	ND	ug/Kg dry	207	1	06/26/06
Aroclor 1262	ND	ug/Kg dry	207	1	06/26/06
Aroclor 1268	ND	ug/Kg dry	207	1	06/26/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	63 %		30-150
Surrogate: Decachlorobiphenyl [2C]	80 %		30-150
Surrogate: Tetrachloro-m-xylene	62 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	81 %		30-150

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3001  
Date Sampled: 06/21/06 13:30  
Percent Solids: 80  
Initial Volume: 19.7  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-03  
Sample Matrix: Soil  
Analyst: JLS  
Prepared: 06/23/06

### 8082 Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Aroclor 1016	ND	ug/Kg dry	63.4	1	06/26/06
Aroclor 1221	ND	ug/Kg dry	63.4	1	06/26/06
Aroclor 1232	ND	ug/Kg dry	63.4	1	06/26/06
Aroclor 1242	ND	ug/Kg dry	63.4	1	06/26/06
Aroclor 1248	ND	ug/Kg dry	63.4	1	06/26/06
<b>Aroclor 1254</b>	<b>528</b>	ug/Kg dry	63.4	1	06/26/06
Aroclor 1260	ND	ug/Kg dry	63.4	1	06/26/06
Aroclor 1262	ND	ug/Kg dry	63.4	1	06/26/06
Aroclor 1268	ND	ug/Kg dry	63.4	1	06/26/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	80 %		30-150
Surrogate: Decachlorobiphenyl [2C]	109 %		30-150
Surrogate: Tetrachloro-m-xylene	56 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	62 %		30-150

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2801  
Date Sampled: 06/21/06 14:02  
Percent Solids: 27  
Initial Volume: 19.2  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-05  
Sample Matrix: Soil  
Analyst: JLS  
Prepared: 06/23/06

### 8082 Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Aroclor 1016	ND	ug/Kg dry	193	1	06/26/06
Aroclor 1221	ND	ug/Kg dry	193	1	06/26/06
Aroclor 1232	ND	ug/Kg dry	193	1	06/26/06
Aroclor 1242	ND	ug/Kg dry	193	1	06/26/06
Aroclor 1248	ND	ug/Kg dry	193	1	06/26/06
Aroclor 1254	ND	ug/Kg dry	193	1	06/26/06
Aroclor 1260	ND	ug/Kg dry	193	1	06/26/06
Aroclor 1262	ND	ug/Kg dry	193	1	06/26/06
Aroclor 1268	ND	ug/Kg dry	193	1	06/26/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	76 %		30-150
Surrogate: Decachlorobiphenyl [2C]	91 %		30-150
Surrogate: Tetrachloro-m-xylene	80 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	76 %		30-150

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2901  
Date Sampled: 06/21/06 14:42  
Percent Solids: 25  
Initial Volume: 19  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-07  
Sample Matrix: Soil  
Analyst: JLS  
Prepared: 06/23/06

### 8082 Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Aroclor 1016	ND	ug/Kg dry	210	1	06/26/06
Aroclor 1221	ND	ug/Kg dry	210	1	06/26/06
Aroclor 1232	ND	ug/Kg dry	210	1	06/26/06
Aroclor 1242	ND	ug/Kg dry	210	1	06/26/06
Aroclor 1248	ND	ug/Kg dry	210	1	06/26/06
Aroclor 1254	ND	ug/Kg dry	210	1	06/26/06
Aroclor 1260	ND	ug/Kg dry	210	1	06/26/06
Aroclor 1262	ND	ug/Kg dry	210	1	06/26/06
Aroclor 1268	ND	ug/Kg dry	210	1	06/26/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	77 %		30-150
Surrogate: Decachlorobiphenyl [2C]	90 %		30-150
Surrogate: Tetrachloro-m-xylene	77 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	79 %		30-150

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3201  
Date Sampled: 06/21/06 15:22  
Percent Solids: 72  
Initial Volume: 20.5  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-09  
Sample Matrix: Soil  
Analyst: JLS  
Prepared: 06/23/06

### 8082 Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Aroclor 1016	ND	ug/Kg dry	67.7	1	06/26/06
Aroclor 1221	ND	ug/Kg dry	67.7	1	06/26/06
Aroclor 1232	ND	ug/Kg dry	67.7	1	06/26/06
Aroclor 1242	ND	ug/Kg dry	67.7	1	06/26/06
Aroclor 1248	ND	ug/Kg dry	67.7	1	06/26/06
Aroclor 1254	ND	ug/Kg dry	67.7	1	06/26/06
Aroclor 1260	ND	ug/Kg dry	67.7	1	06/26/06
Aroclor 1262	ND	ug/Kg dry	67.7	1	06/26/06
Aroclor 1268	ND	ug/Kg dry	67.7	1	06/26/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	69 %		30-150
Surrogate: Decachlorobiphenyl [2C]	91 %		30-150
Surrogate: Tetrachloro-m-xylene	74 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	76 %		30-150

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2001  
Date Sampled: 06/22/06 08:40  
Percent Solids: 43  
Initial Volume: 20.7  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-12  
Sample Matrix: Soil  
Analyst: JLS  
Prepared: 06/23/06

### 8082 Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Aroclor 1016	ND	ug/Kg dry	112	1	06/26/06
Aroclor 1221	ND	ug/Kg dry	112	1	06/26/06
Aroclor 1232	ND	ug/Kg dry	112	1	06/26/06
Aroclor 1242	ND	ug/Kg dry	112	1	06/26/06
Aroclor 1248	ND	ug/Kg dry	112	1	06/26/06
Aroclor 1254	ND	ug/Kg dry	112	1	06/26/06
Aroclor 1260	ND	ug/Kg dry	112	1	06/26/06
Aroclor 1262	ND	ug/Kg dry	112	1	06/26/06
Aroclor 1268	ND	ug/Kg dry	112	1	06/26/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	57 %		30-150
Surrogate: Decachlorobiphenyl [2C]	68 %		30-150
Surrogate: Tetrachloro-m-xylene	60 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	68 %		30-150

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1701  
Date Sampled: 06/22/06 09:15  
Percent Solids: 71  
Initial Volume: 21  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-14  
Sample Matrix: Soil  
Analyst: JLS  
Prepared: 06/23/06

### 8082 Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Aroclor 1016	ND	ug/Kg dry	67.0	1	06/26/06
Aroclor 1221	ND	ug/Kg dry	67.0	1	06/26/06
Aroclor 1232	ND	ug/Kg dry	67.0	1	06/26/06
Aroclor 1242	ND	ug/Kg dry	67.0	1	06/26/06
Aroclor 1248	ND	ug/Kg dry	67.0	1	06/26/06
Aroclor 1254	ND	ug/Kg dry	67.0	1	06/26/06
Aroclor 1260	ND	ug/Kg dry	67.0	1	06/26/06
Aroclor 1262	ND	ug/Kg dry	67.0	1	06/26/06
Aroclor 1268	ND	ug/Kg dry	67.0	1	06/26/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	89 %		30-150
Surrogate: Decachlorobiphenyl [2C]	82 %		30-150
Surrogate: Tetrachloro-m-xylene	75 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	71 %		30-150

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1001  
Date Sampled: 06/22/06 09:45  
Percent Solids: 85  
Initial Volume: 21  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-16  
Sample Matrix: Soil  
Analyst: JLS  
Prepared: 06/23/06

### 8082 Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Aroclor 1016	ND	ug/Kg dry	56.0	1	06/26/06
Aroclor 1221	ND	ug/Kg dry	56.0	1	06/26/06
Aroclor 1232	ND	ug/Kg dry	56.0	1	06/26/06
Aroclor 1242	ND	ug/Kg dry	56.0	1	06/26/06
Aroclor 1248	ND	ug/Kg dry	56.0	1	06/26/06
Aroclor 1254	ND	ug/Kg dry	56.0	1	06/26/06
Aroclor 1260	ND	ug/Kg dry	56.0	1	06/26/06
Aroclor 1262	ND	ug/Kg dry	56.0	1	06/26/06
Aroclor 1268	ND	ug/Kg dry	56.0	1	06/26/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	93 %		30-150
Surrogate: Decachlorobiphenyl [2C]	96 %		30-150
Surrogate: Tetrachloro-m-xylene	85 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	86 %		30-150

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1101  
Date Sampled: 06/22/06 10:15  
Percent Solids: 15  
Initial Volume: 19  
Final Volume: 10  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-18  
Sample Matrix: Soil  
Analyst: JLS  
Prepared: 06/23/06

### 8082 Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Aroclor 1016	ND	ug/Kg dry	351	1	06/26/06
Aroclor 1221	ND	ug/Kg dry	351	1	06/26/06
Aroclor 1232	ND	ug/Kg dry	351	1	06/26/06
Aroclor 1242	ND	ug/Kg dry	351	1	06/26/06
Aroclor 1248	ND	ug/Kg dry	351	1	06/26/06
Aroclor 1254	ND	ug/Kg dry	351	1	06/26/06
Aroclor 1260	ND	ug/Kg dry	351	1	06/26/06
Aroclor 1262	ND	ug/Kg dry	351	1	06/26/06
Aroclor 1268	ND	ug/Kg dry	351	1	06/26/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	94 %		30-150
Surrogate: Decachlorobiphenyl [2C]	85 %		30-150
Surrogate: Tetrachloro-m-xylene	69 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	71 %		30-150

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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED1201

Date Sampled: 06/22/06 11:01

Percent Solids: 45

Initial Volume: 19.9

Final Volume: 10

Extraction Method: 3541

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-20

Sample Matrix: Soil

Analyst: JLS

Prepared: 06/23/06

### 8082 Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Aroclor 1016	ND	ug/Kg dry	112	1	06/26/06
Aroclor 1221	ND	ug/Kg dry	112	1	06/26/06
Aroclor 1232	ND	ug/Kg dry	112	1	06/26/06
Aroclor 1242	ND	ug/Kg dry	112	1	06/26/06
Aroclor 1248	ND	ug/Kg dry	112	1	06/26/06
Aroclor 1254	ND	ug/Kg dry	112	1	06/26/06
Aroclor 1260	ND	ug/Kg dry	112	1	06/26/06
Aroclor 1262	ND	ug/Kg dry	112	1	06/26/06
Aroclor 1268	ND	ug/Kg dry	112	1	06/26/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	62 %		30-150
Surrogate: Decachlorobiphenyl [2C]	84 %		30-150
Surrogate: Tetrachloro-m-xylene	64 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	70 %		30-150

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PCB  
Quality Control Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8081A Organochlorine Pesticides

##### Batch BF62723 - 3541

delta-BHC	19.7	5.85	ug/Kg dry	29.3	ND	67	30-150	12	30	
Dieldrin	28.0	5.85	ug/Kg dry	29.3	ND	96	30-150	13	30	
Endosulfan I	28.6	5.85	ug/Kg dry	29.3	ND	98	30-150	12	30	
Endosulfan II	30.3	5.85	ug/Kg dry	29.3	ND	103	30-150	32	30	
Endosulfan Sulfate	30.5	5.85	ug/Kg dry	29.3	ND	104	30-150	30	30	
Endrin	29.1	5.85	ug/Kg dry	29.3	ND	99	30-150	18	30	
Endrin Aldehyde	33.8	5.85	ug/Kg dry	29.3	ND	115	30-150	33	30	+
Endrin Ketone	31.3	5.85	ug/Kg dry	29.3	ND	107	30-150	15	30	
gamma-BHC (Lindane)	23.0	5.85	ug/Kg dry	29.3	ND	78	30-150	9	30	
gamma-Chlordane	30.7	5.85	ug/Kg dry	29.3	ND	105	30-150	8	30	
Heptachlor	24.5	5.85	ug/Kg dry	29.3	ND	84	30-150	14	30	
Heptachlor Epoxide	25.8	5.85	ug/Kg dry	29.3	ND	88	30-150	11	30	
Hexachlorobenzene	23.4	5.85	ug/Kg dry	29.3	ND	80	30-150	21	30	
Methoxychlor	33.3	5.85	ug/Kg dry	29.3	ND	114	30-150	11	30	

Surrogate: Decachlorobiphenyl	35.2		ug/Kg dry	29.3		120	30-150			
Surrogate: Decachlorobiphenyl [2C]	30.4		ug/Kg dry	29.3		104	30-150			
Surrogate: Tetrachloro-m-xylene	24.9		ug/Kg dry	29.3		85	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	21.6		ug/Kg dry	29.3		74	30-150			

#### 8082 Polychlorinated Biphenyls (PCB)

##### Batch BF62329 - 3541

##### Blank

Aroclor 1016	ND	33.3	ug/Kg wet							
Aroclor 1221	ND	33.3	ug/Kg wet							
Aroclor 1232	ND	33.3	ug/Kg wet							
Aroclor 1242	ND	33.3	ug/Kg wet							
Aroclor 1248	ND	33.3	ug/Kg wet							
Aroclor 1254	ND	33.3	ug/Kg wet							
Aroclor 1260	ND	33.3	ug/Kg wet							
Aroclor 1262	ND	33.3	ug/Kg wet							
Aroclor 1268	ND	33.3	ug/Kg wet							

Surrogate: Decachlorobiphenyl	17.3		ug/Kg wet	16.7		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	16.9		ug/Kg wet	16.7		101	30-150			
Surrogate: Tetrachloro-m-xylene	14.6		ug/Kg wet	16.7		87	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	14.9		ug/Kg wet	16.7		89	30-150			

##### LCS

Aroclor 1016	328	33.3	ug/Kg wet	333		98	40-140			
Aroclor 1260	349	33.3	ug/Kg wet	333		105	40-140			

Surrogate: Decachlorobiphenyl	17.5		ug/Kg wet	16.7		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	17.2		ug/Kg wet	16.7		103	30-150			
Surrogate: Tetrachloro-m-xylene	15.5		ug/Kg wet	16.7		93	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	15.3		ug/Kg wet	16.7		92	30-150			

##### LCS Dup

Aroclor 1016	333	33.3	ug/Kg wet	333		100	40-140	2	50	
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# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### 8082 Polychlorinated Biphenyls (PCB)

**Batch BF62329 - 3541**

Aroclor 1260	336	33.3	ug/Kg wet	333		101	40-140	4	50	
Surrogate: Decachlorobiphenyl	17.9		ug/Kg wet	16.7		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	17.8		ug/Kg wet	16.7		107	30-150			
Surrogate: Tetrachloro-m-xylene	15.8		ug/Kg wet	16.7		95	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	15.6		ug/Kg wet	16.7		93	30-150			

**Matrix Spike Source: 0606373-09**

Aroclor 1016	451	69.0	ug/Kg dry	691	ND	65	40-140			
Aroclor 1260	422	69.0	ug/Kg dry	691	ND	61	40-140			
Surrogate: Decachlorobiphenyl	21.0		ug/Kg dry	34.5		61	30-150			
Surrogate: Decachlorobiphenyl [2C]	24.9		ug/Kg dry	34.5		72	30-150			
Surrogate: Tetrachloro-m-xylene	25.5		ug/Kg dry	34.5		74	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	23.0		ug/Kg dry	34.5		67	30-150			

**Matrix Spike Dup Source: 0606373-09**

Aroclor 1016	530	69.7	ug/Kg dry	698	ND	76	40-140	16	50	
Aroclor 1260	504	69.7	ug/Kg dry	698	ND	72	40-140	18	50	
Surrogate: Decachlorobiphenyl	26.7		ug/Kg dry	34.9		77	30-150			
Surrogate: Decachlorobiphenyl [2C]	36.8		ug/Kg dry	34.9		105	30-150			
Surrogate: Tetrachloro-m-xylene	30.3		ug/Kg dry	34.9		87	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	28.5		ug/Kg dry	34.9		82	30-150			

#### 8100M Total Petroleum Hydrocarbons

**Batch BFG2406 - 3541**

<b>Blank</b>										
Total Petroleum Hydrocarbons	ND	37.5	mg/kg wet							
Surrogate: O-Terphenyl	4.19		mg/kg wet	5.00		84	40-140			
<b>LCS</b>										
Total Petroleum Hydrocarbons	671	37.5	mg/kg wet	1000		67	40-140			
Surrogate: O-Terphenyl	5.31		mg/kg wet	5.00		106	40-140			
<b>LCS Dup</b>										
Total Petroleum Hydrocarbons	653	37.5	mg/kg wet	1000		65	40-140	3	50	
Surrogate: O-Terphenyl	5.04		mg/kg wet	5.00		101	40-140			
<b>Matrix Spike Source: 0606373-16</b>										
Total Petroleum Hydrocarbons	953	44.6	mg/kg dry	1190	ND	80	40-140			
Surrogate: O-Terphenyl	5.73		mg/kg dry	5.94		96	40-140			
<b>Matrix Spike Dup Source: 0606373-16</b>										
Total Petroleum Hydrocarbons	1050	43.7	mg/kg dry	1160	ND	91	40-140	10	50	
Surrogate: O-Terphenyl	6.32		mg/kg dry	5.82		109	40-140			

#### 8270C Polynuclear Aromatic Hydrocarbons

**Batch BFG2605 - 3541**

# PCB Calibration Data

## ANALYSIS SEQUENCE

BPG0242

Instrument: SVOAGC5

Calibration ID: UNASSIGNED *8082CX*

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0242-CAL1	QC		1		6F14043		
BPG0242-CAL2	QC		2		6F14044		
BPG0242-CAL3	QC		3		6F14045		
BPG0242-CAL4	QC		4		6F14046		
BPG0242-CAL5	QC		5		6F14047		
BPG0242-CAL6	QC		6		6F14048		
BPG0242-CAL7	QC		7		6F14051		
BPG0242-CAL8	QC		8		6F14053		
BPG0242-CAL9	QC		9		6F14055		
BPG0242-CALA	QC		10		6F14057		
BPG0242-CALB	QC		11		6F14059		
BPG0242-CALC	QC		12		6F14061		
BPG0242-CALD	QC		13		6F14063		
BPG0242-SCV1	QC		14		6F14049		
BPG0242-SCV2	QC		15		6F14052		
BPG0242-SCV3	QC		16		6F14054		
BPG0242-SCV4	QC		17		6F14056		
BPG0242-SCV5	QC		18		6F14058		
BPG0242-SCV6	QC		19		6F14060		
BPG0242-SCV7	QC		20		6F14062		
BPG0242-SCV8	QC		21		6F14064		

Samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

771  
Data Processed By \_\_\_\_\_ Date \_\_\_\_\_

# ESS LABORATORY GC 5 RUN LOG

COLUMN RTX CL Pesticide / RTX CL Pesticide II

Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/4/11	91	6602103-91	166021	8002CW	6FL20 58	M
	92	92	166021		59	
	93	93	166021		60	
	94	94	166021		61	
6/11/11	91	6602103-91	166021	8002CW	6FL20 58 1200 High Sample 0222	M
6/12/11	96	6602103-96	Hex	8002CW		M
	97	-97	166021		6FL30 58	
	98	-98	166021		59	
	99	-99	166021		60	
6/12/11	100	6602103-100	166021	8002CW	6FL30 61	M
6/13/11	96	6602103-96	Hex	8002CW		M
	97	-97	166021		6FL30 58	
	98	-98	166021		59	
	99	-99	166021		60	
	100	-100	166021		61	
6/13/11	97	6602103-97	166021	8002CW	6FL30 58	M
6/23/11	1	6602103A-01	166021	8002 CW	6FL30 58	M
	1	-01	166021		6FL30 58	
	2	-02	166021		6FL40 58	
	3	-03	166021		59	
	4	-04	166021		45	
	5	-05	166021		46	
	6	-06	166021		47	
	7	-07	166021		48	
	8	-08	166021		49	
	9	-09	166021		45 50 12/2/11	
	10	-10	166021		51	
	11	-11	166021		52	
	12	-12	166021		53	
6/23/11	13	6602103A-13	166021	8002 CW	54	M

# ESS LABORATORY GC 5 RUN LOG

COLUMN RTX CL Pesticide / RTX CL Pesticide II

Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/23/06	14	60062306-14	1242	✓ <del>Direct</del>	6F7405T	M
	15	-15	124653	✓	56	
	16	-16	1245	✓	57	
	17	-17	124651	✓	58	
	18	-18	1249	✓	59	
	19	-19	1259 51	✓	60	
	20	-20	1242	✓	61	
	21	-21	124251	✓	62	
	22	-22	1268	✓	63	
6/23/06	23	60062306-23	126851	✓ <del>Direct</del>	6F740 67	
6/24/06	1	60062406-01	1104	✓ <del>Direct</del>		
	2	-02	16604	✓	6F23055 INT: 1035	
	3	-03	124641	✓	59	
	4	-04	12474	✓	60	
	5	-05	124766	✓	61	
	6	-06	BF62115-0116	✓		CV checked
	7	-07	-031	✓		
	8	-08	-0501	✓		
	9	-09	0606332-01	✓	60	
	10	-10	-02	✓	60 ✓ 4L RTX	
	11	-11	-03	✓	42 ✓ 60 ✓ 13 ✓	
	12	-12	-04	✓	420 60 ✓ 4L ✓	
	13	-13	-04M1	✓	420	
	14	-14	-04M10	✓	420	
	15	-15	-04M1	✓		
	16	-16	-04M11	✓		
	17	-17	0606332-02	✓	45 4L	CV checked
	18	-18	1104	✓		
	19	-19	16604	✓	6F23055	
6/24/06	58	06062406-58	12464 773	✓ <del>Direct</del>	59	N

Response Factor Report GC5

Method : Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Title :  
 Last Update : Mon Jul 10 09:21:55 2006  
 Response via : Initial Calibration

Calibration Files

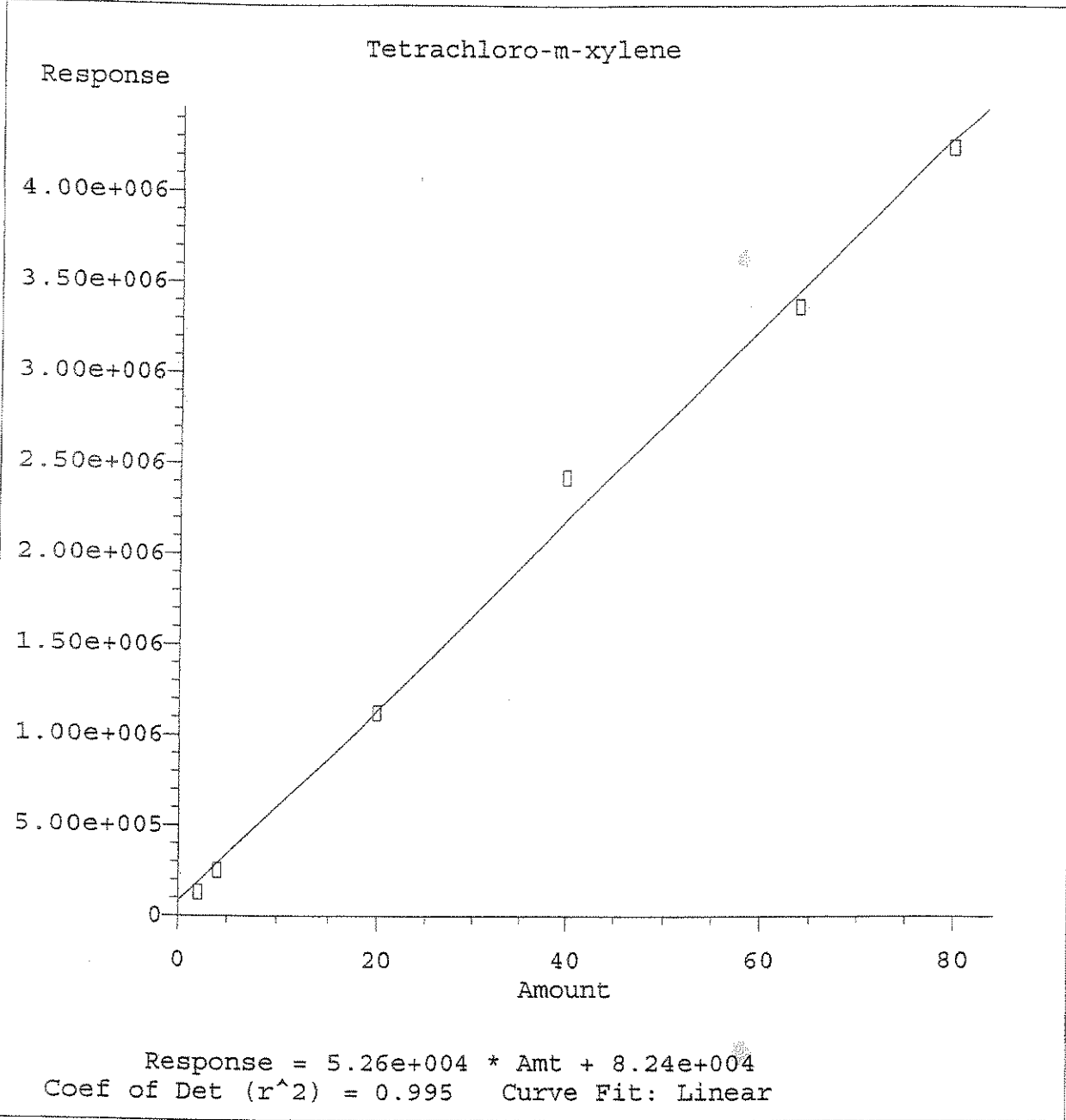
500 =004F0201.D 2000 =007F0201.D 50 =002F0201.D  
 100 =003F0201.D 1000 =002F0101.D 1600 =006F0201.D

Compound		500	2000	50	100	1000	1600	Avg		%RSD
1)	S Tetrachloro-m-xylene	56.2	53.1	65.2	63.2	60.6	52.6	58.5	E3	9.10
2)	LM1 AR1016 (1)	1.2	1.1	1.4	1.3	1.2	1.1	1.2	E3	10.36
3)	LM1 AR1016 (2)	2.2	1.7	3.0	3.1	2.0	1.8	2.3	E3	25.30
4)	LM1 AR1016 (3)	4.1	3.3	6.1	6.0	3.9	3.4	4.5	E3	28.19
5)	LM1 AR1016 (4)	1.1	1.0	1.4	1.4	1.1	1.0	1.2	E3	17.09
6)	LM1 AR1016 (5)	1.1	0.8	0.9	0.9	1.0	0.9	0.9	E3	8.44
7)	LM2 AR1260 (1)	3.1	2.3	4.4	4.2	2.7	2.4	3.2	E3	29.37
8)	LM2 AR1260 (2)	7.3	5.8	8.8	9.3	6.8	6.0	7.4	E3	19.39
9)	LM2 AR1260 (3)	2.5	2.0	2.7	2.8	2.4	2.1	2.4	E3	13.19
10)	LM2 AR1260 (4)	940.1	811.8	984.3	939.8	962.9	833.3	912.0		7.85
11)	LM2 AR1260 (5)	1.6	1.3	2.1	2.0	1.5	1.5	1.7	E3	17.50
12)	S Decachlorobiphenyl	55.8	41.9	77.4	69.3	50.3	43.5	56.4	E3	25.39

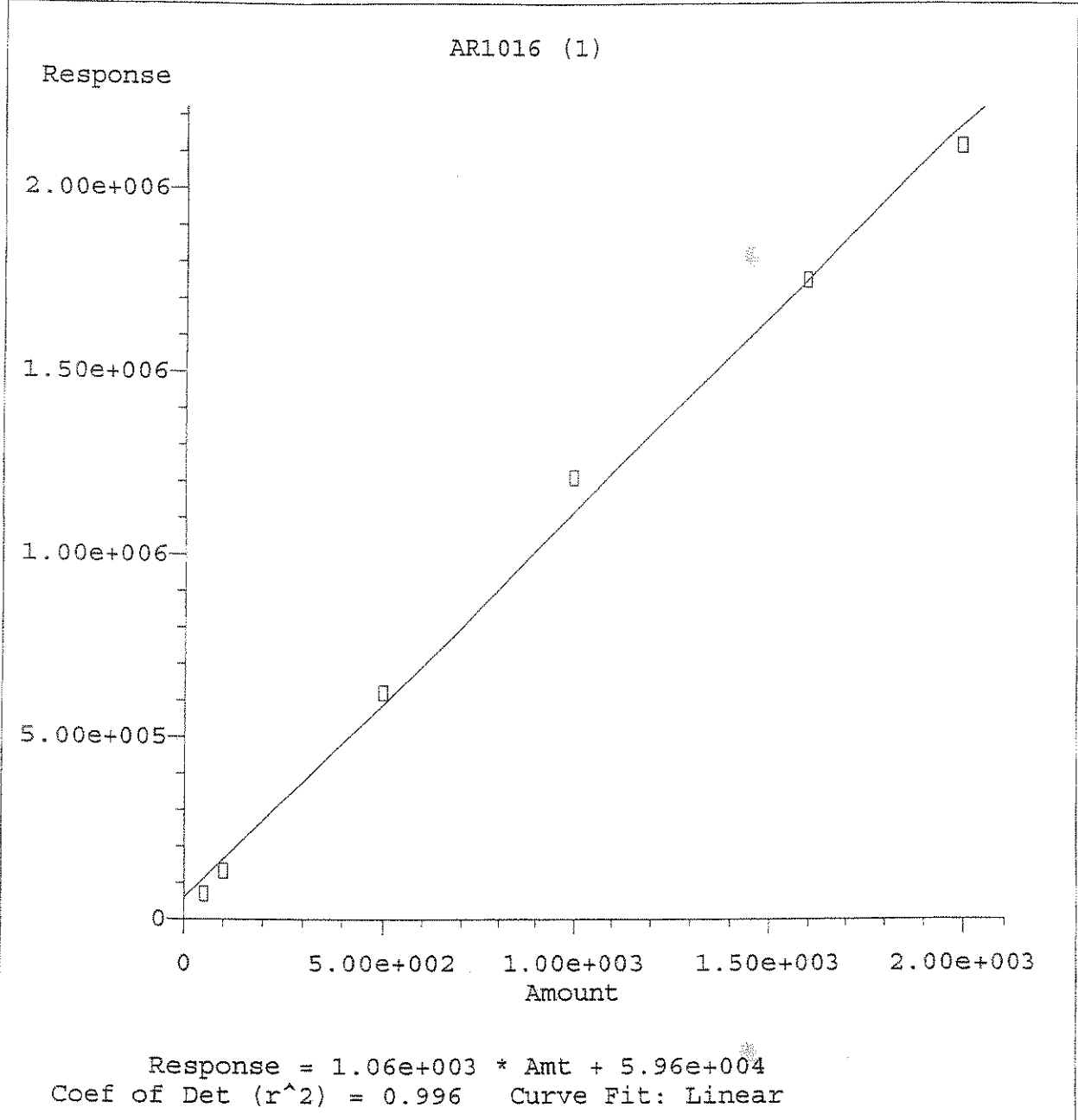
Signal #2 Calibration Files

500 =004R0201.D 2000 =007R0201.D 50 =002R0201.D  
 100 =003R0201.D 1000 =002R0101.D 1600 =006R0201.D

Compound		500	2000	50	100	1000	1600	Avg		%RSD
1)	S Tetrachloro-m-xylene	52.2	46.3	55.7	52.8	50.5	47.0	50.7	E3	7.10
2)	LM1 AR1016 (1)	1.3	1.1	1.3	1.3	1.2	1.1	1.2	E3	8.14
3)	LM1 AR1016 (2)	2.1	1.7	2.4	2.4	1.9	1.7	2.0	E3	16.32
4)	LM1 AR1016 (3)	4.2	3.4	4.3	5.2	3.9	3.5	4.1	E3	16.23
5)	LM1 AR1016 (4)	1.5	1.3	1.4	1.5	1.5	1.4	1.4	E3	6.48
6)	LM1 AR1016 (5)	1.2	1.0	1.6	1.4	1.1	1.0	1.2	E3	19.09
7)	LM2 AR1260 (1)	3.3	2.7	4.4	4.2	3.1	2.8	3.4	E3	21.08
8)	LM2 AR1260 (2)	2.3	2.0	2.9	2.7	2.2	2.0	2.4	E3	15.34
9)	LM2 AR1260 (3)	5.1	4.4	5.9	5.5	4.9	4.4	5.0	E3	12.16
10)	LM2 AR1260 (4)	3.2	2.6	3.8	3.6	3.1	2.9	3.2	E3	14.04
11)	LM2 AR1260 (5)	1.2	1.2	1.2	1.2	1.2	1.2	1.2	E3	3.10
12)	S Decachlorobiphenyl	45.0	36.3	54.3	51.0	42.1	37.4	44.3	E3	16.31

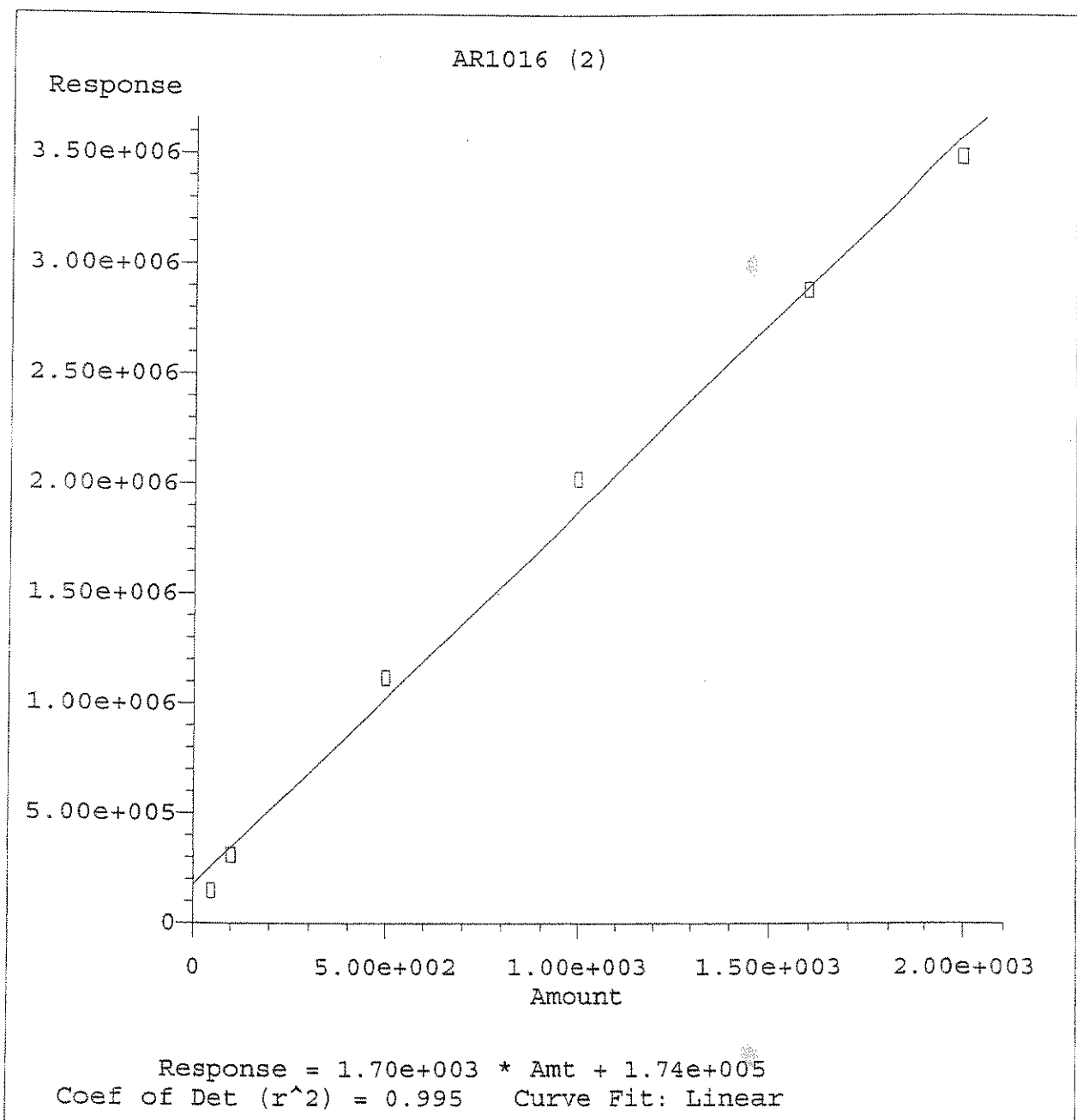


Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

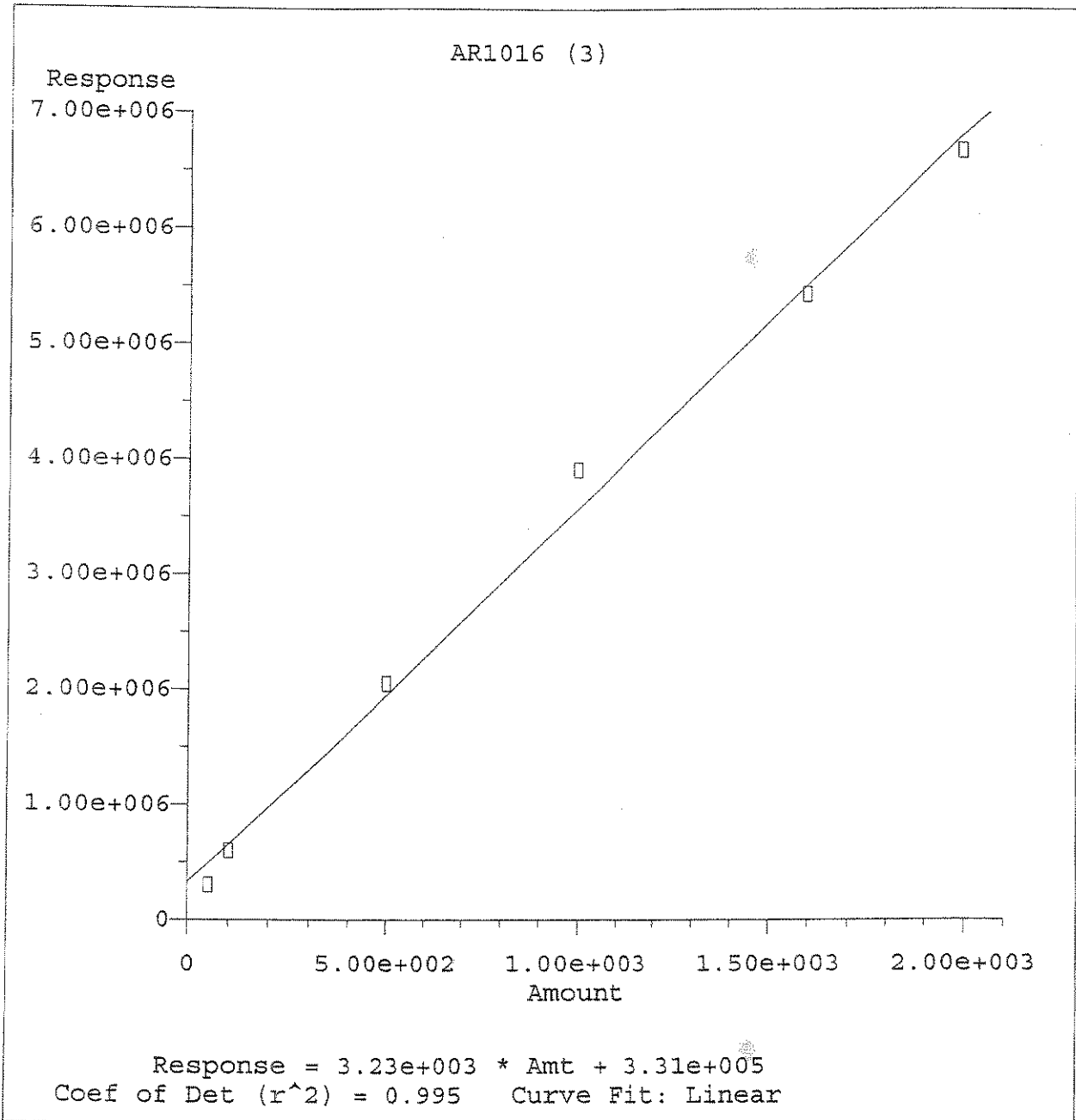


Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

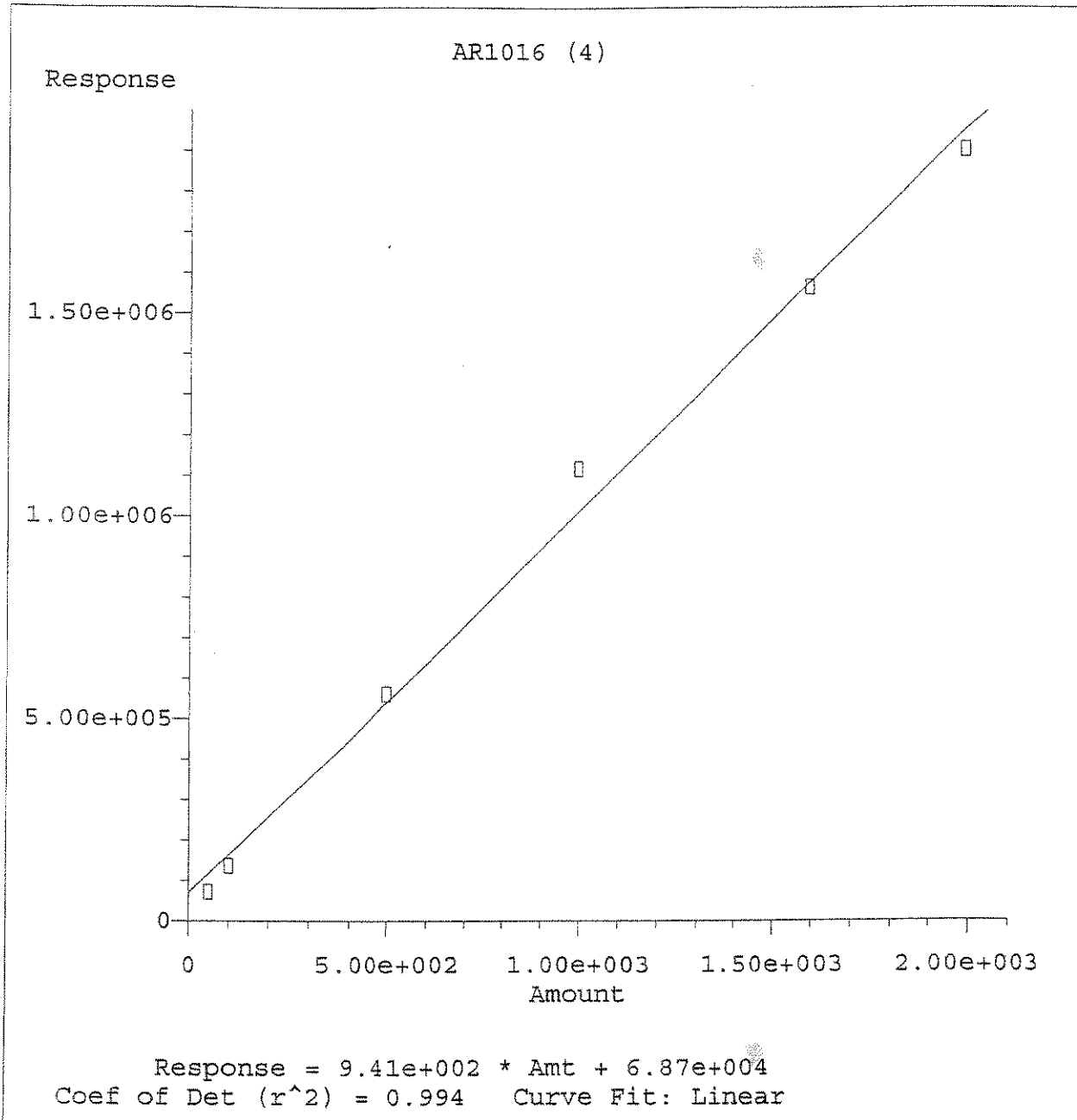




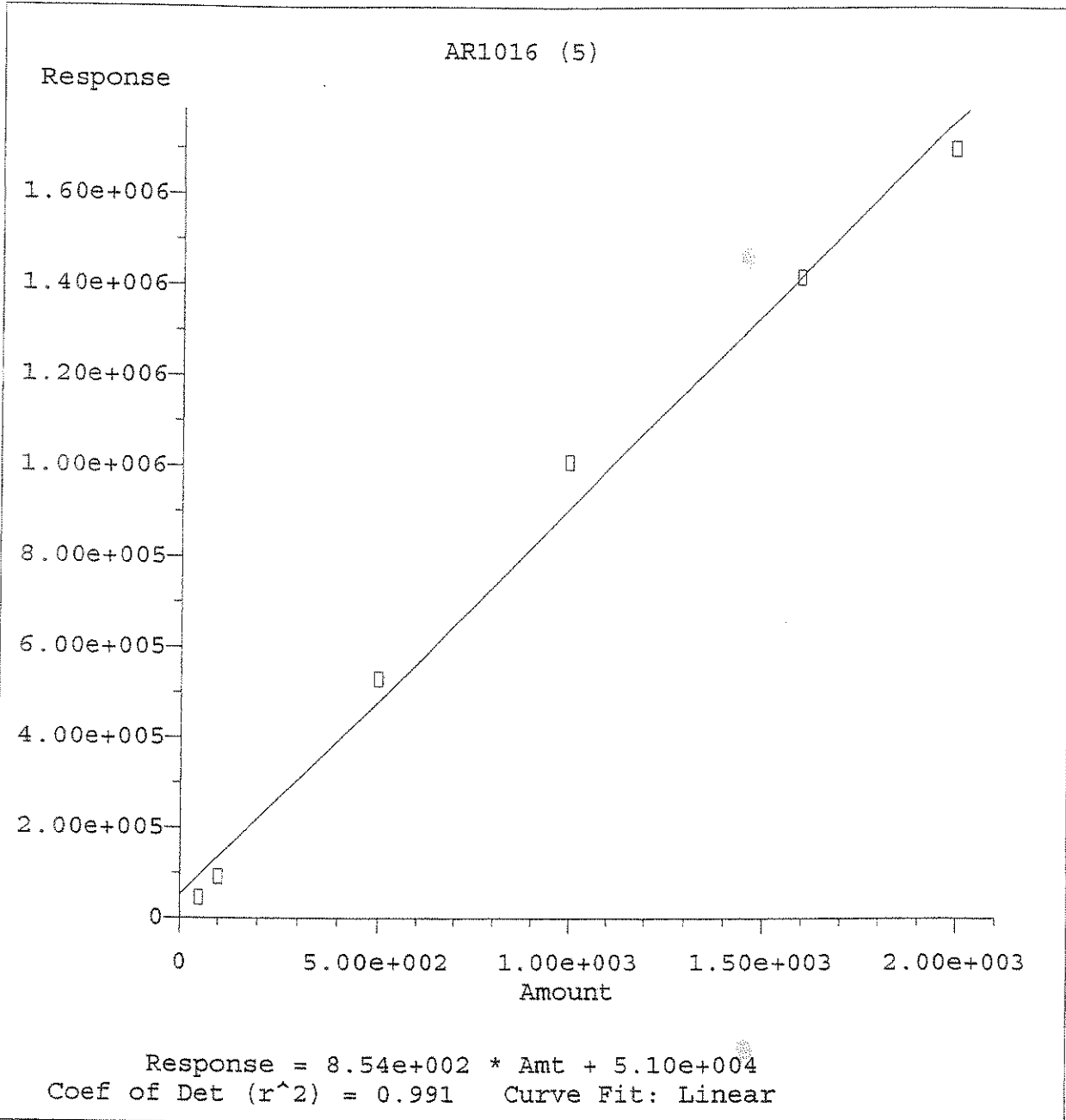
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



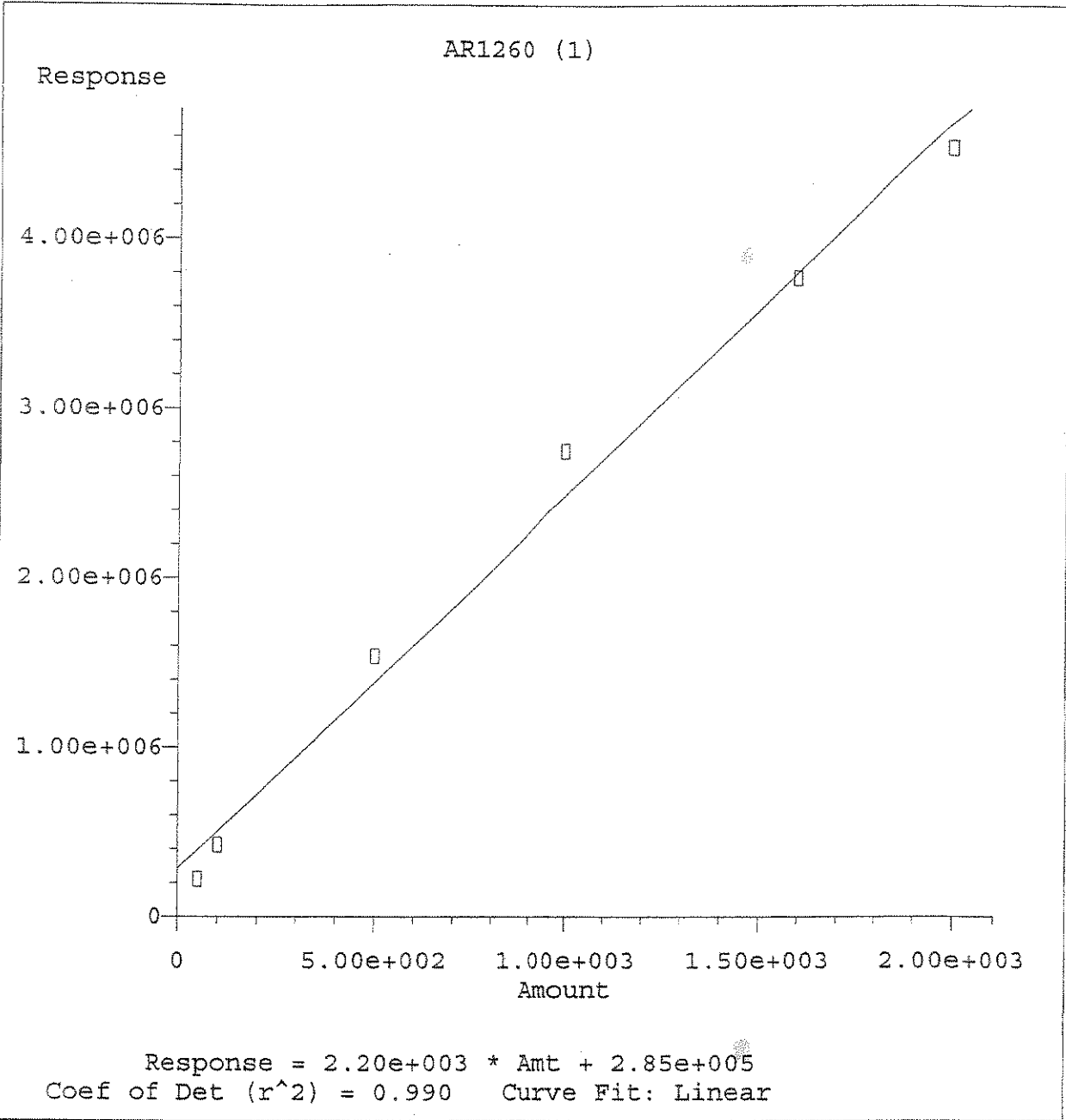
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



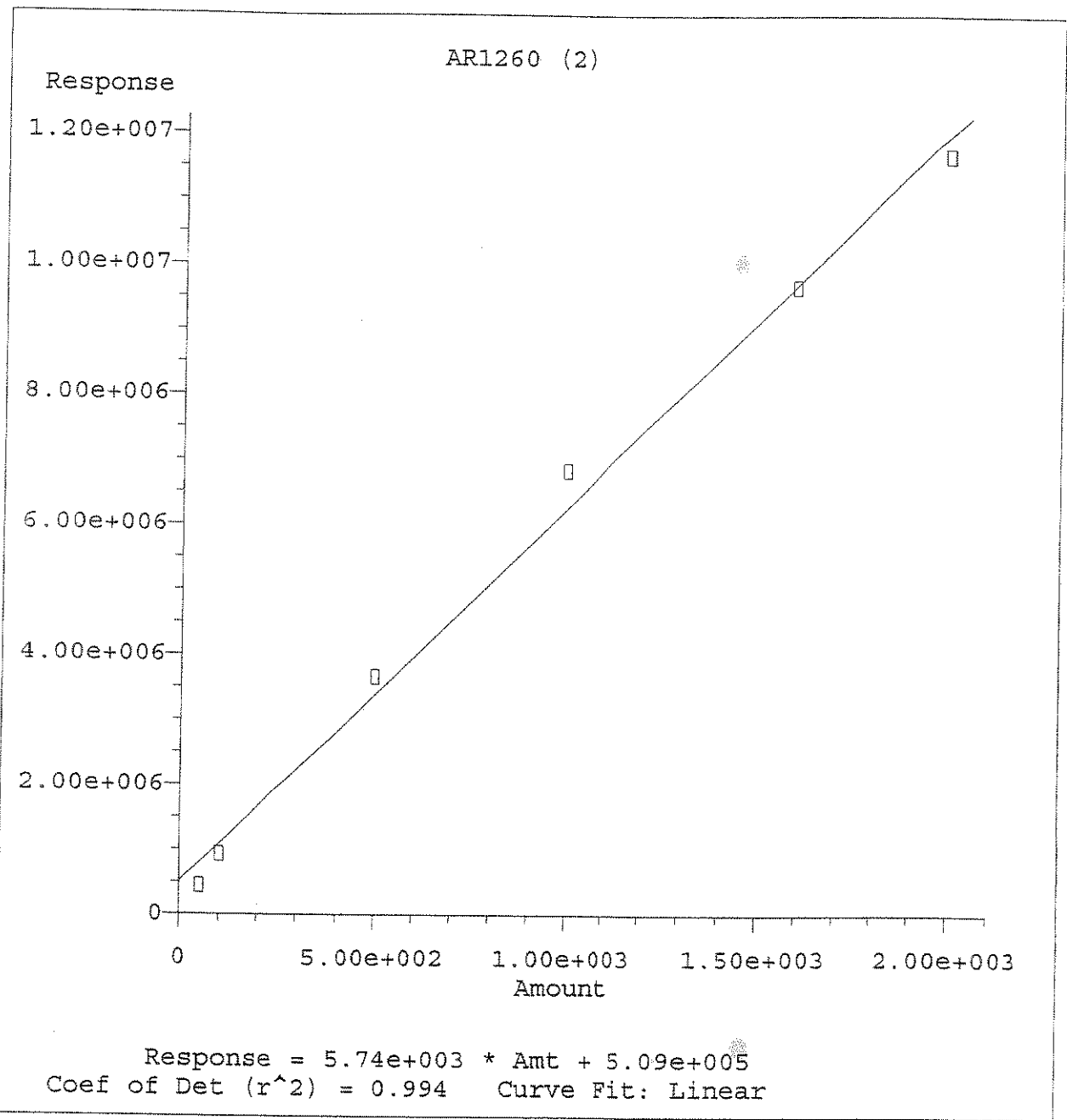
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



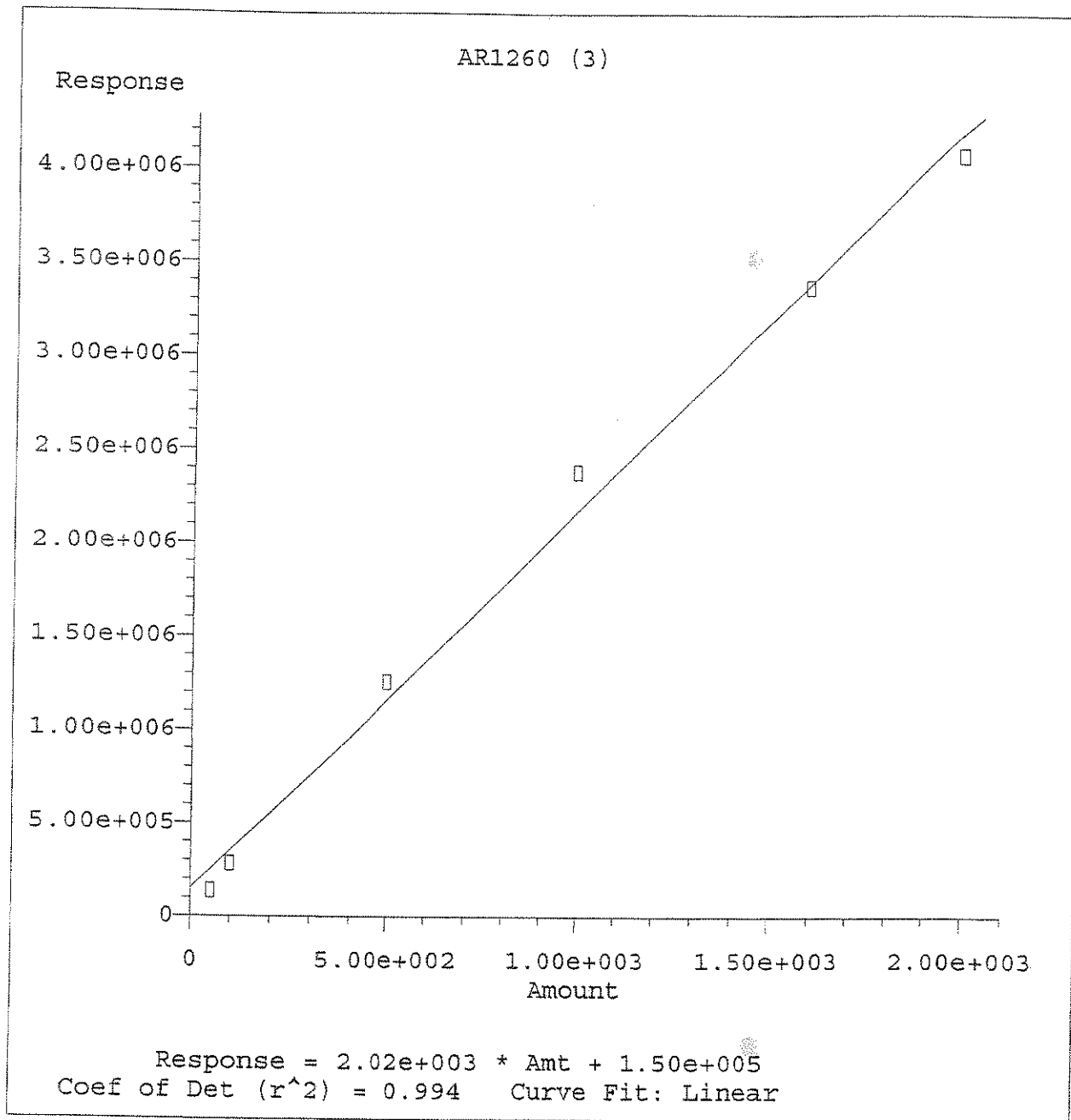
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



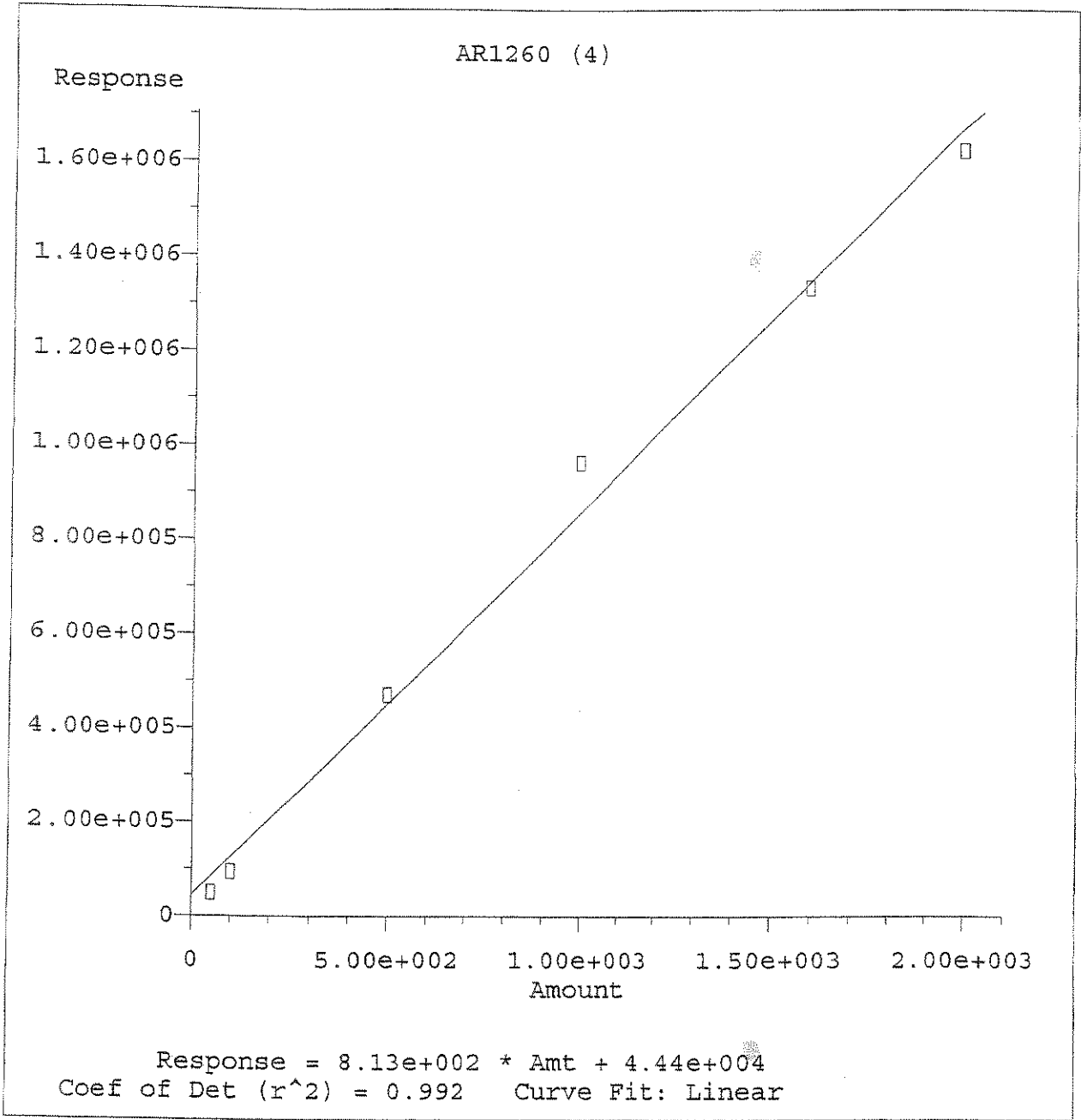
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

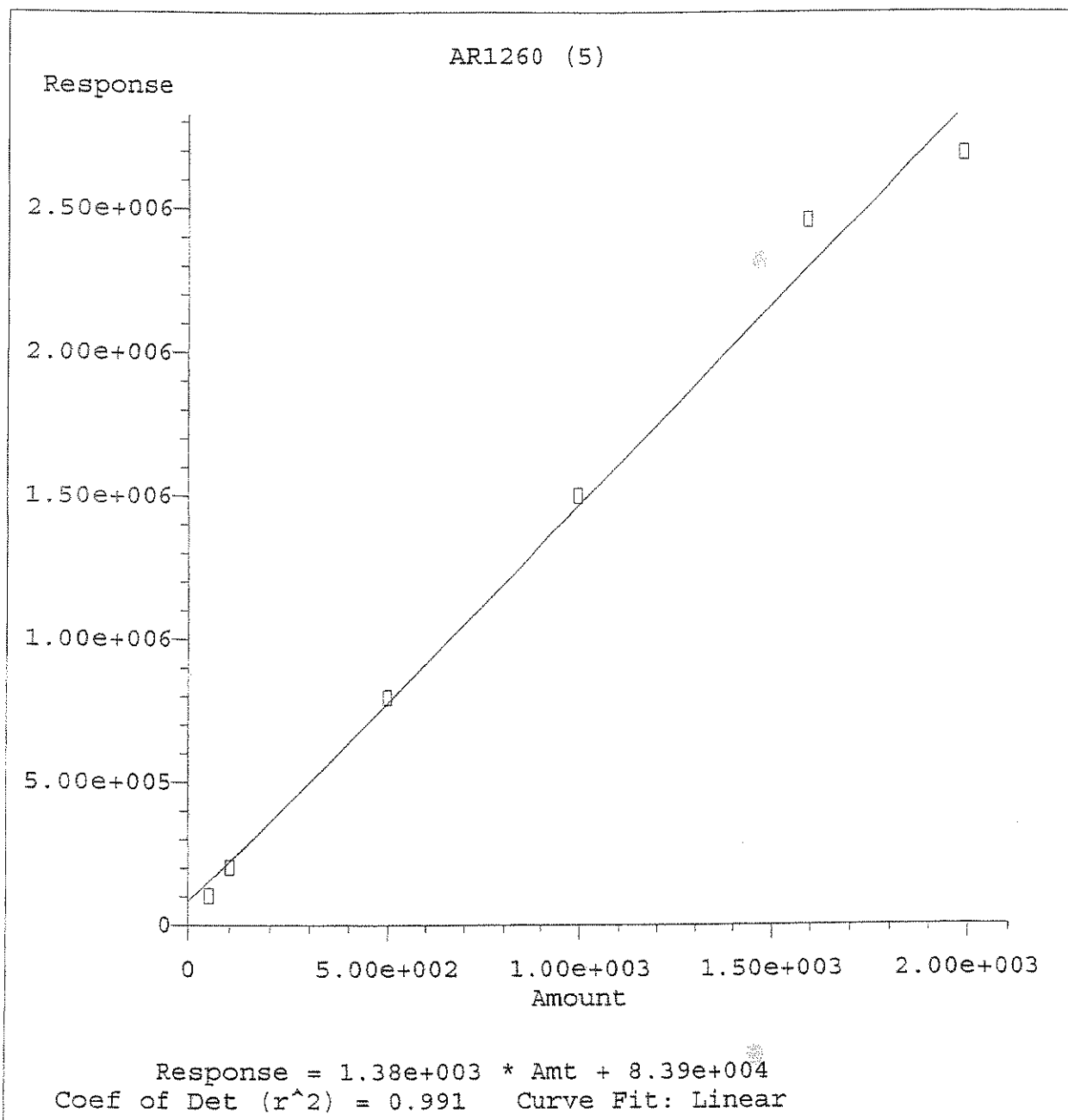


Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

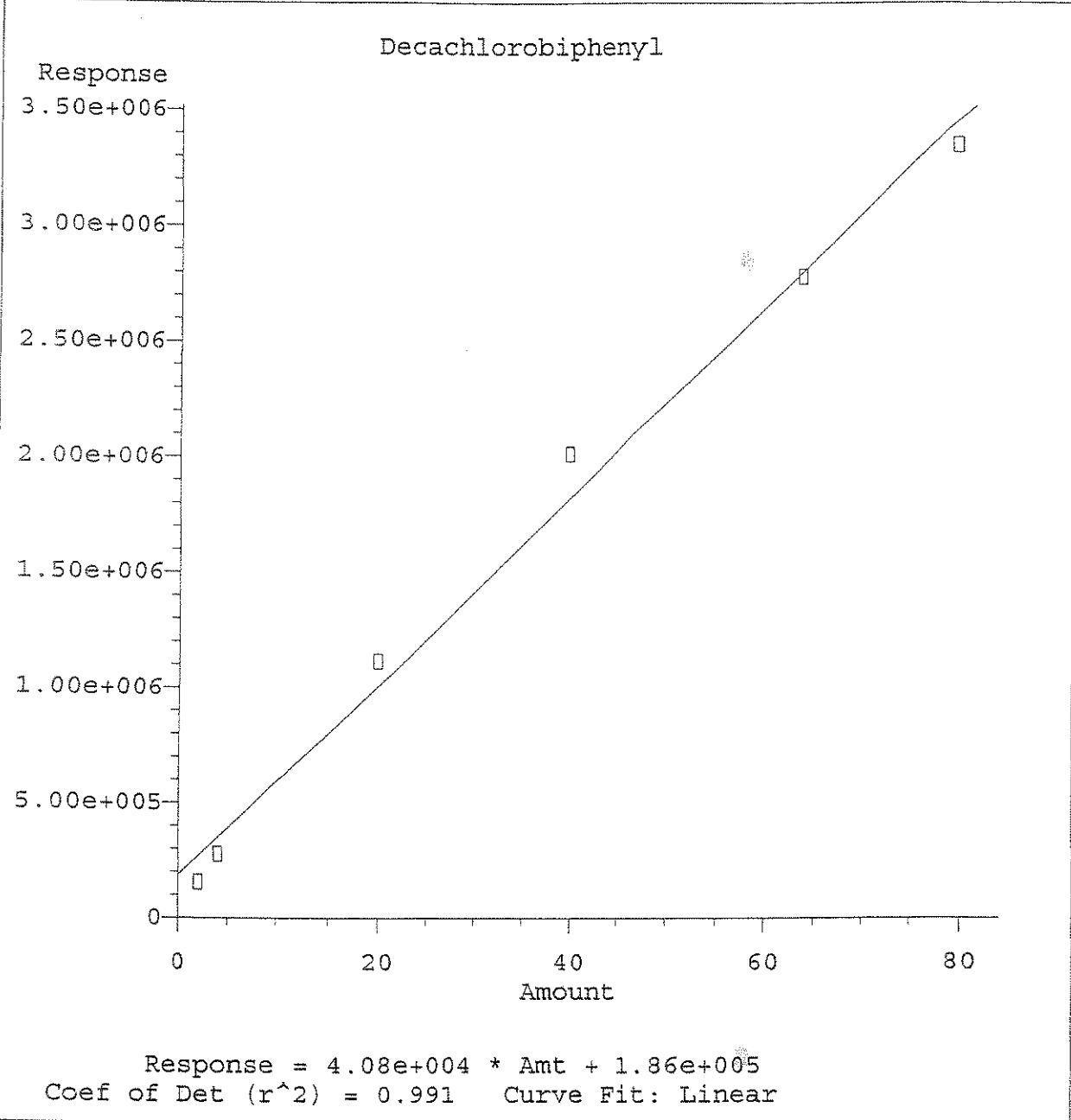


Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

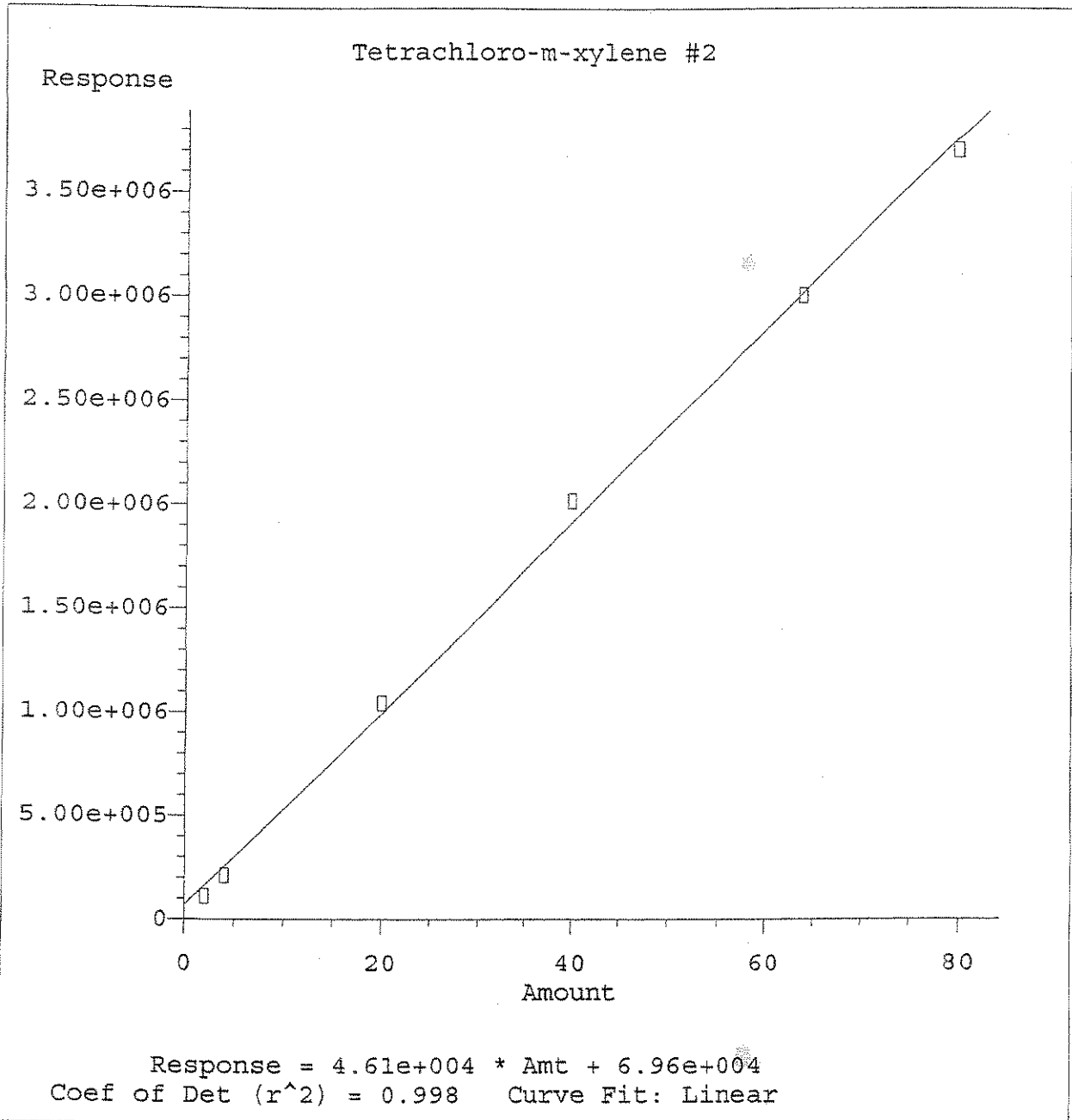




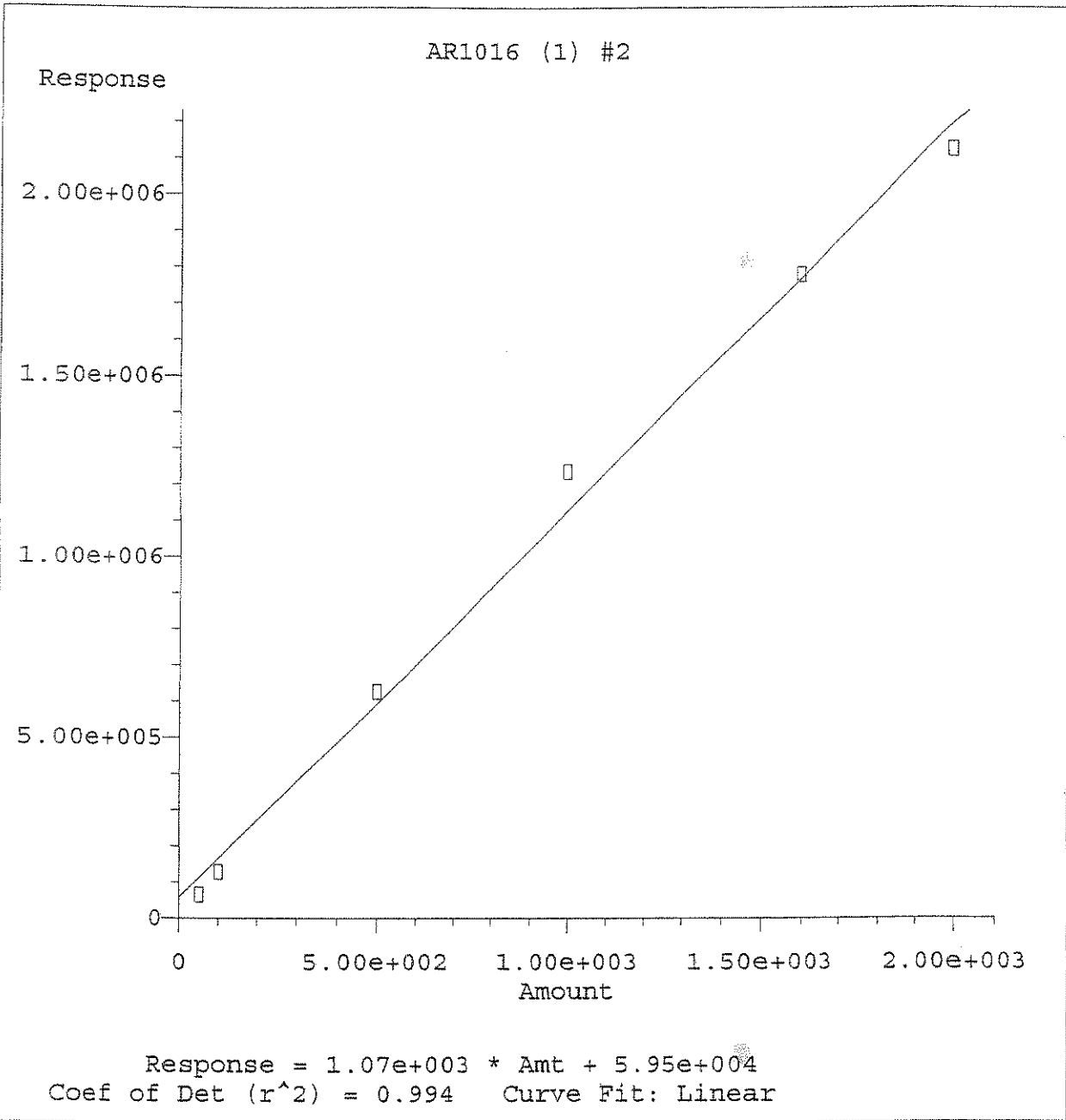
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



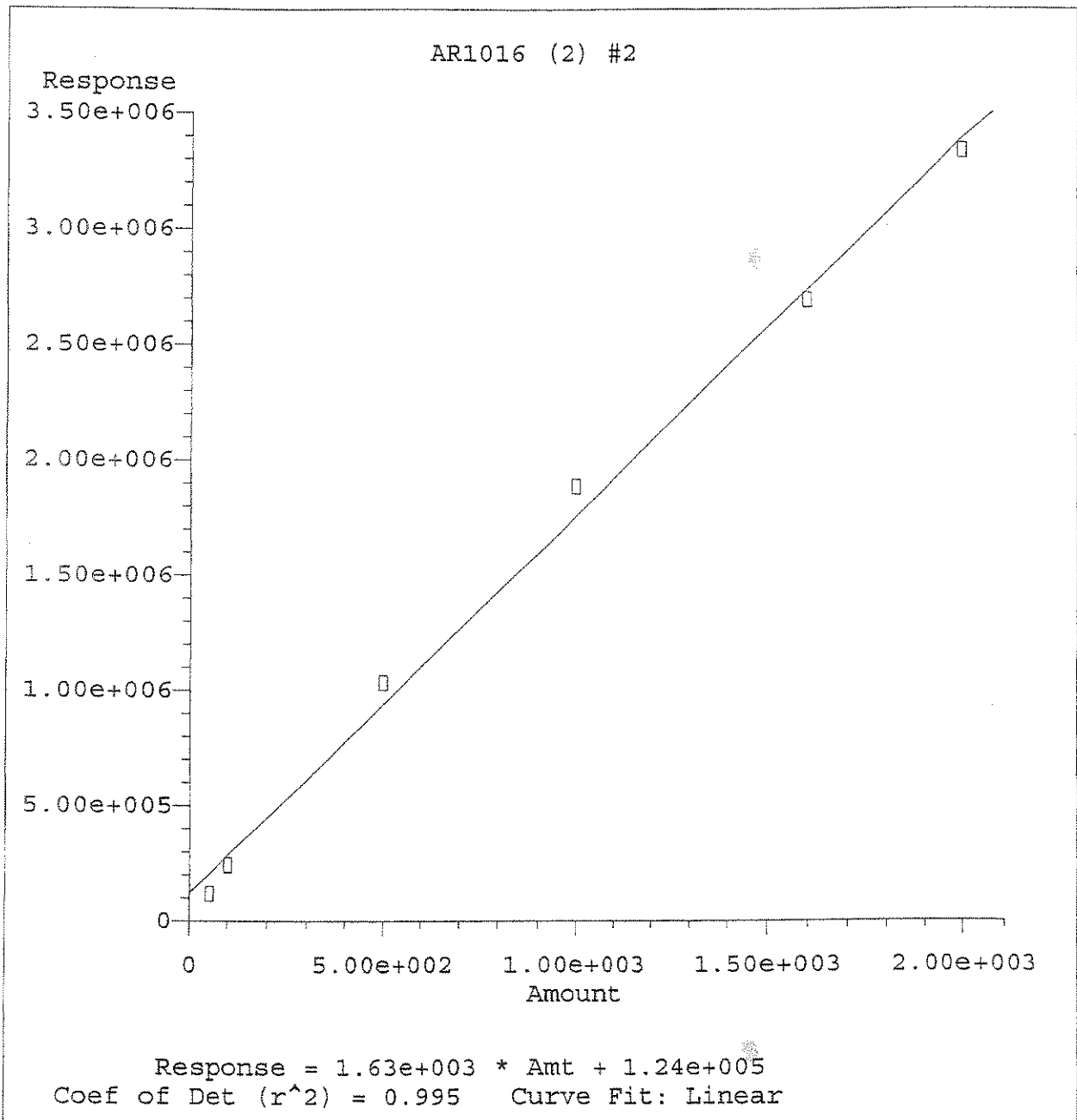
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



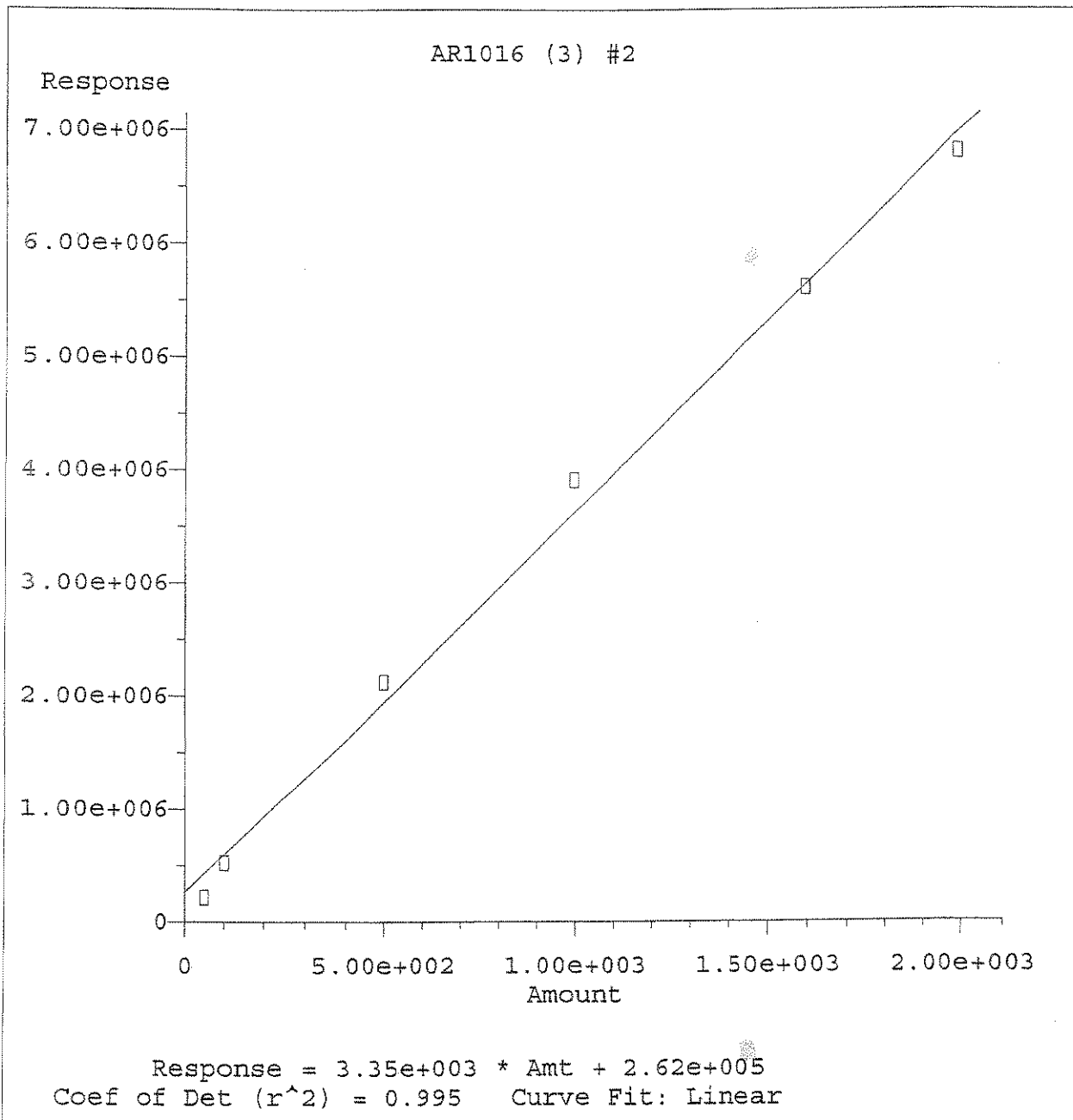
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



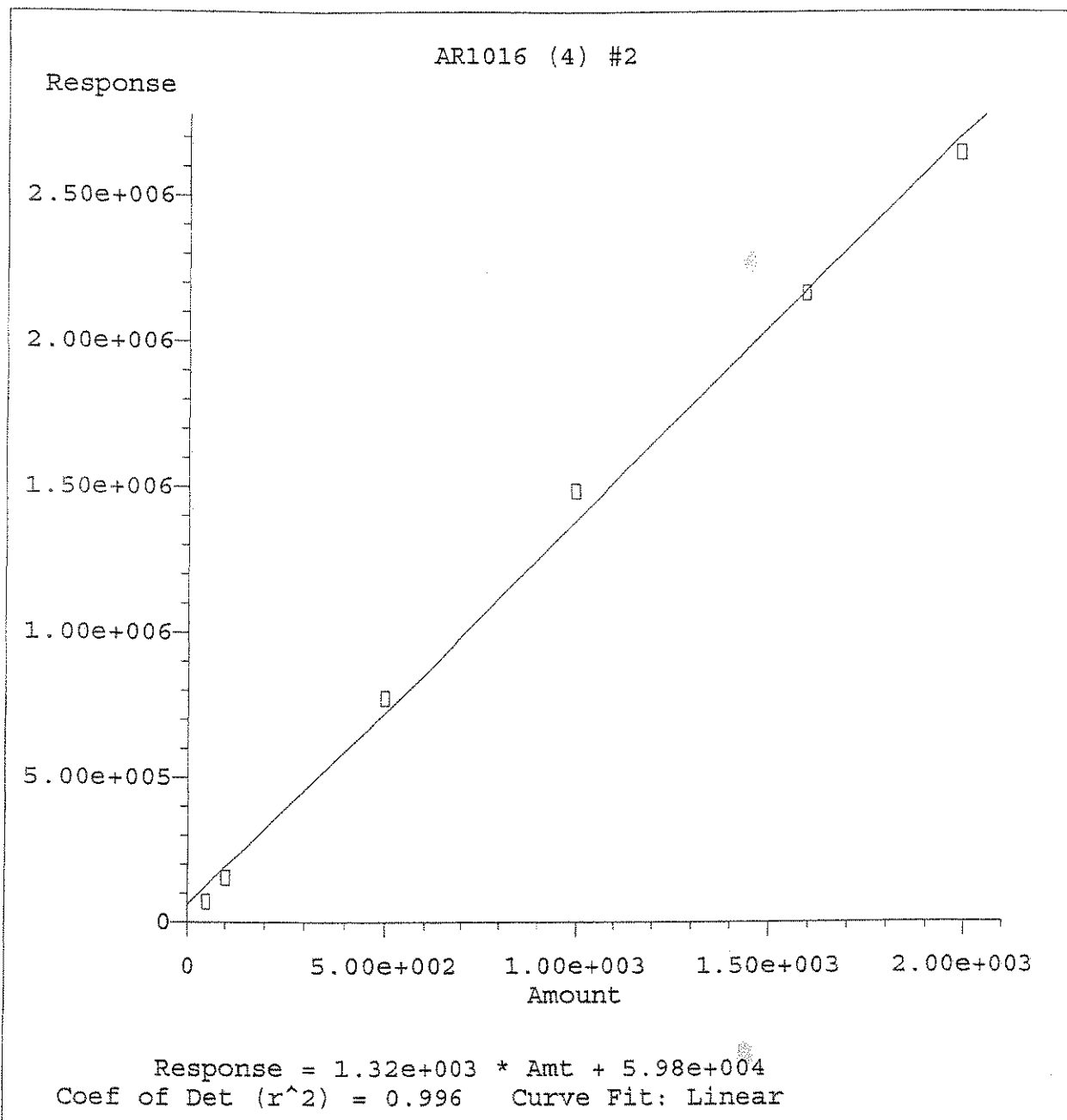
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

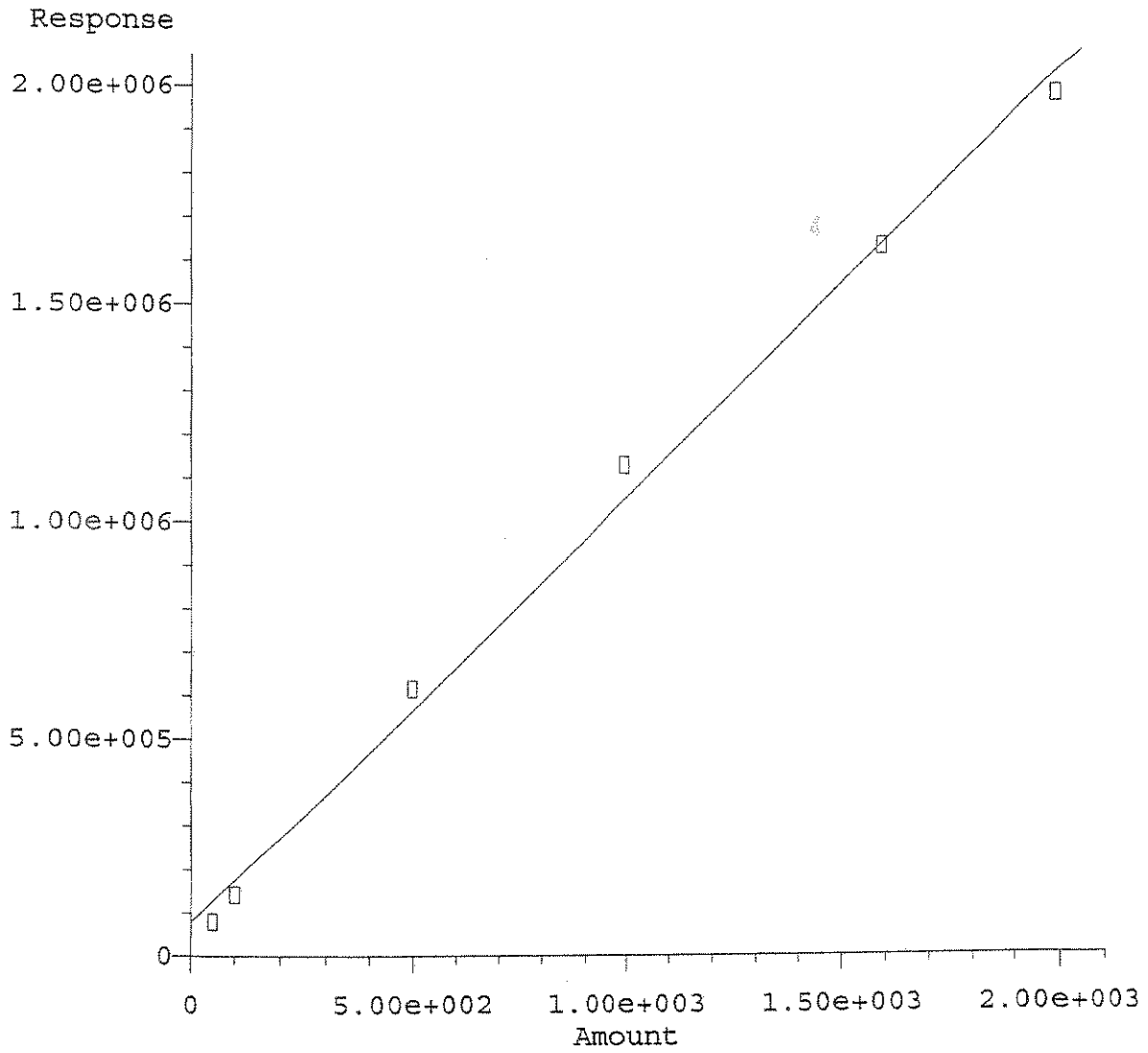


Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

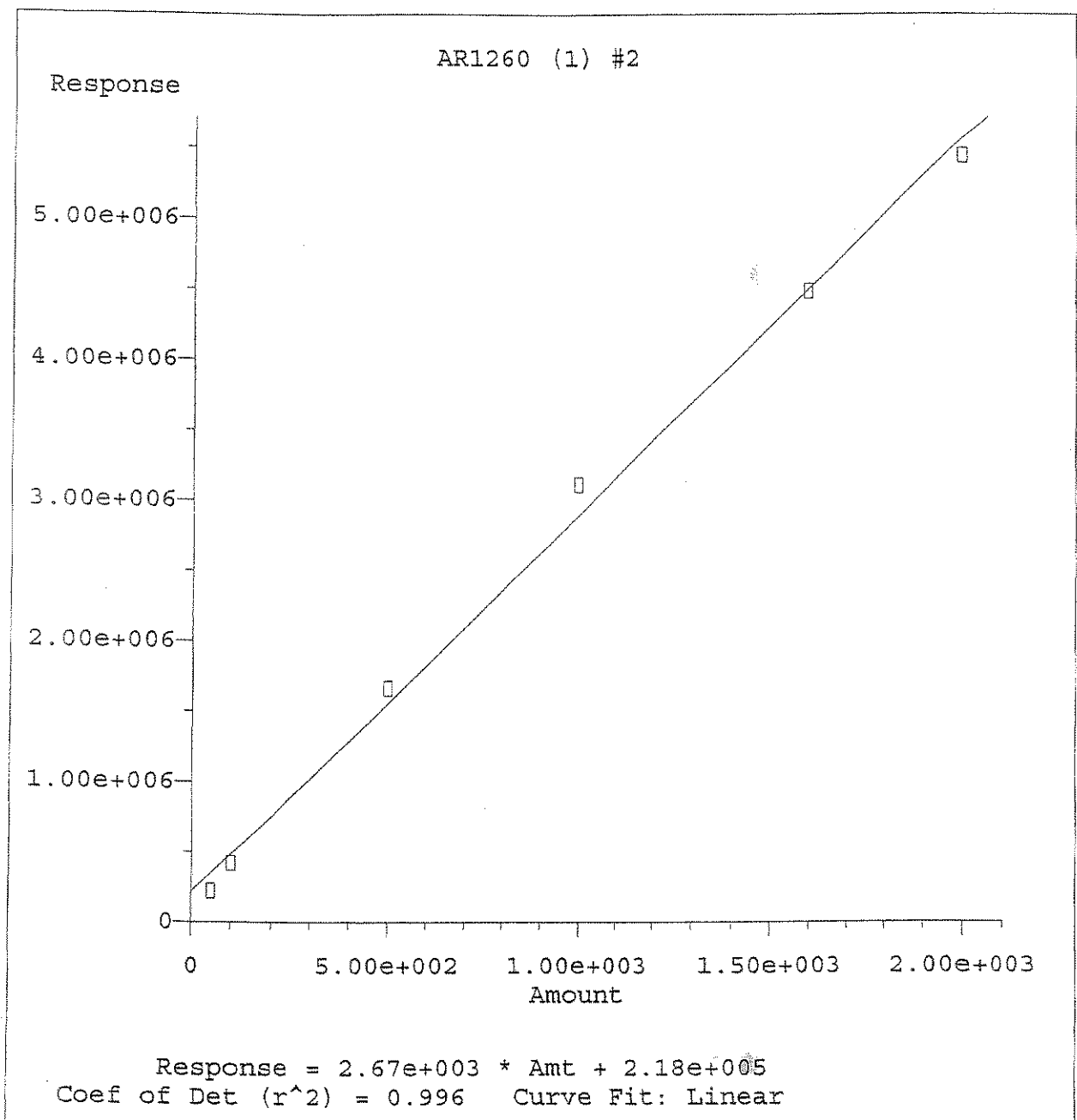
AR1016 (5) #2



Response = 9.71e+002 \* Amt + 7.77e+004  
Coef of Det (r^2) = 0.995 Curve Fit: Linear

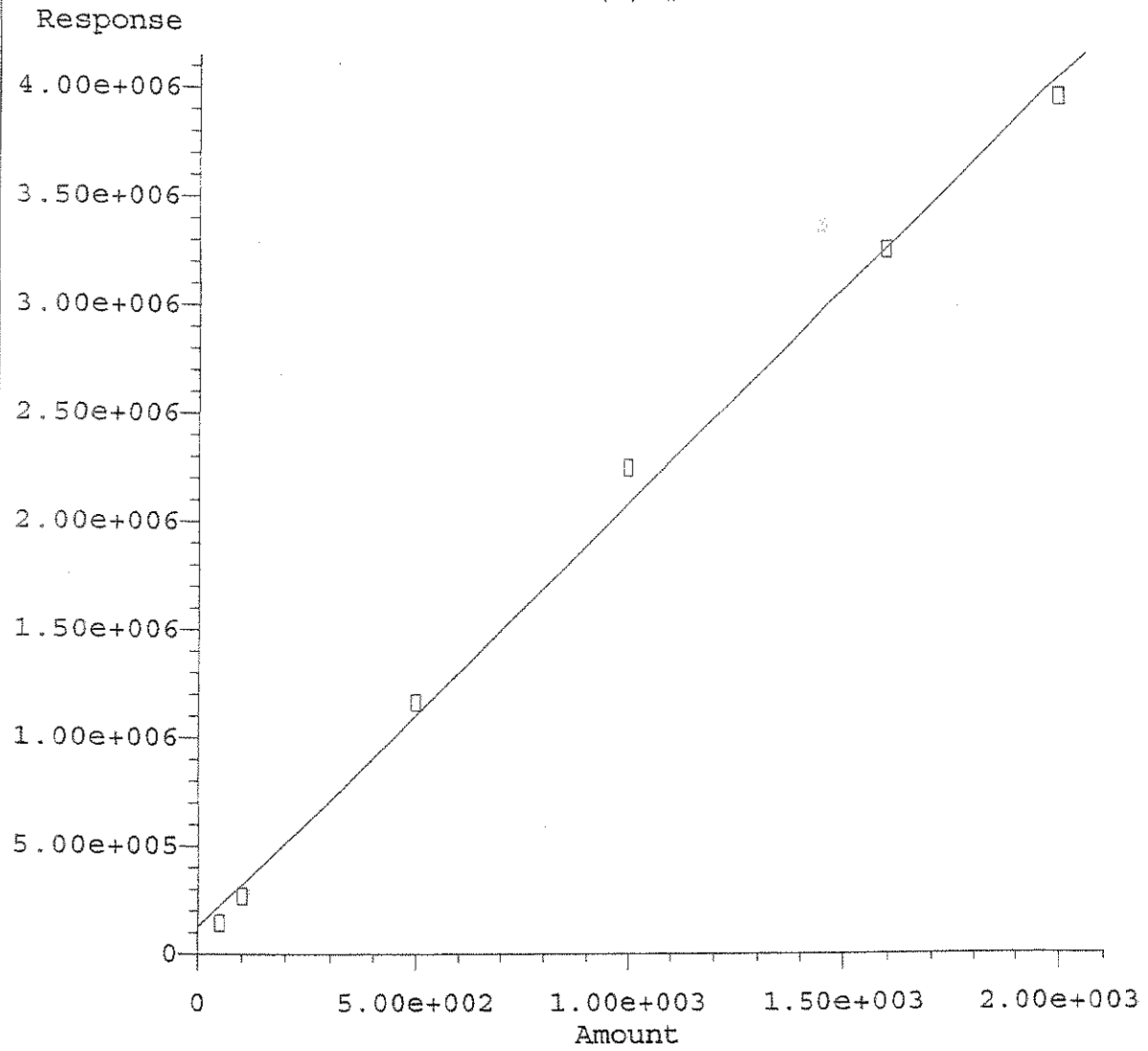
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006





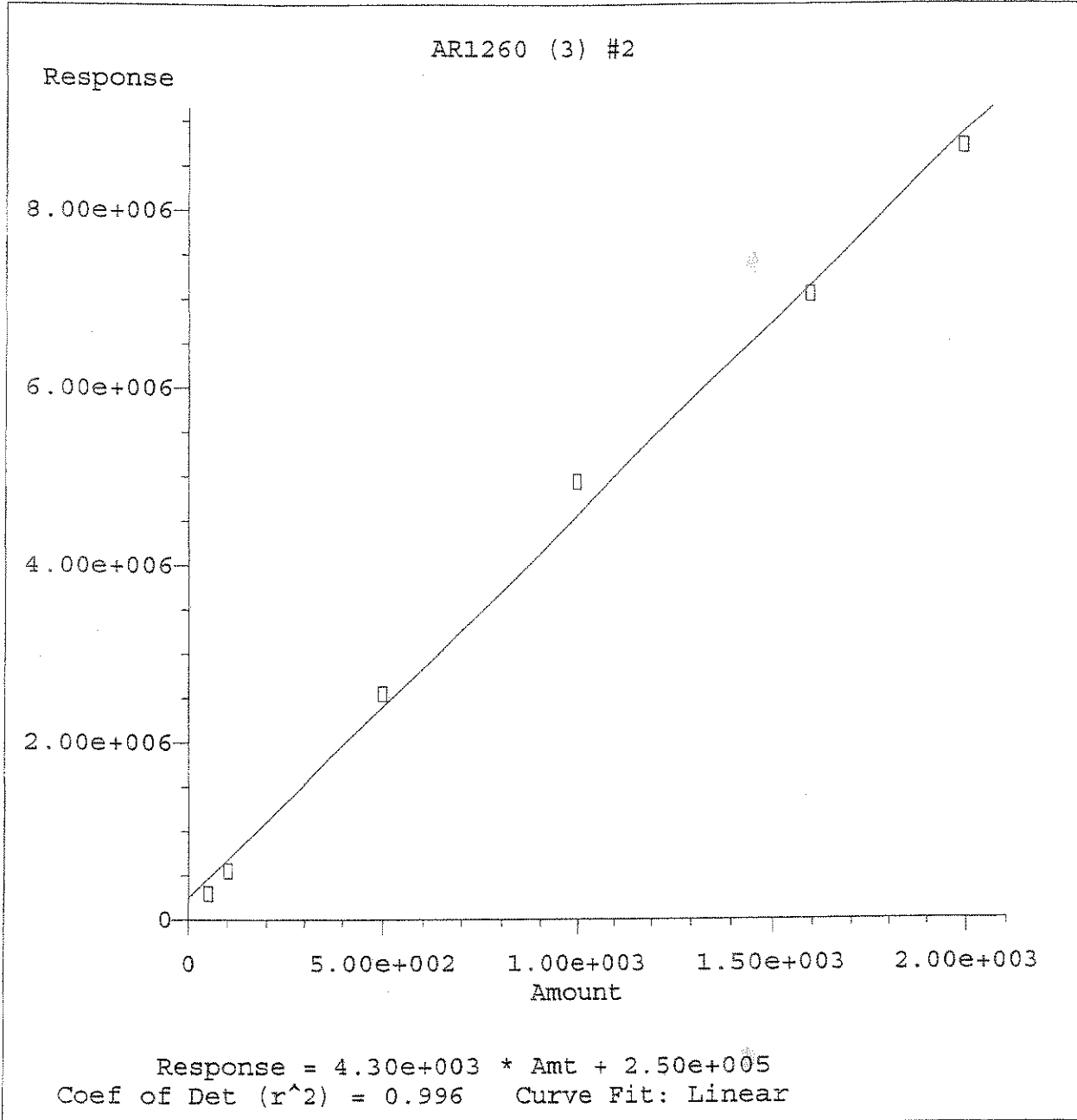
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

AR1260 (2) #2

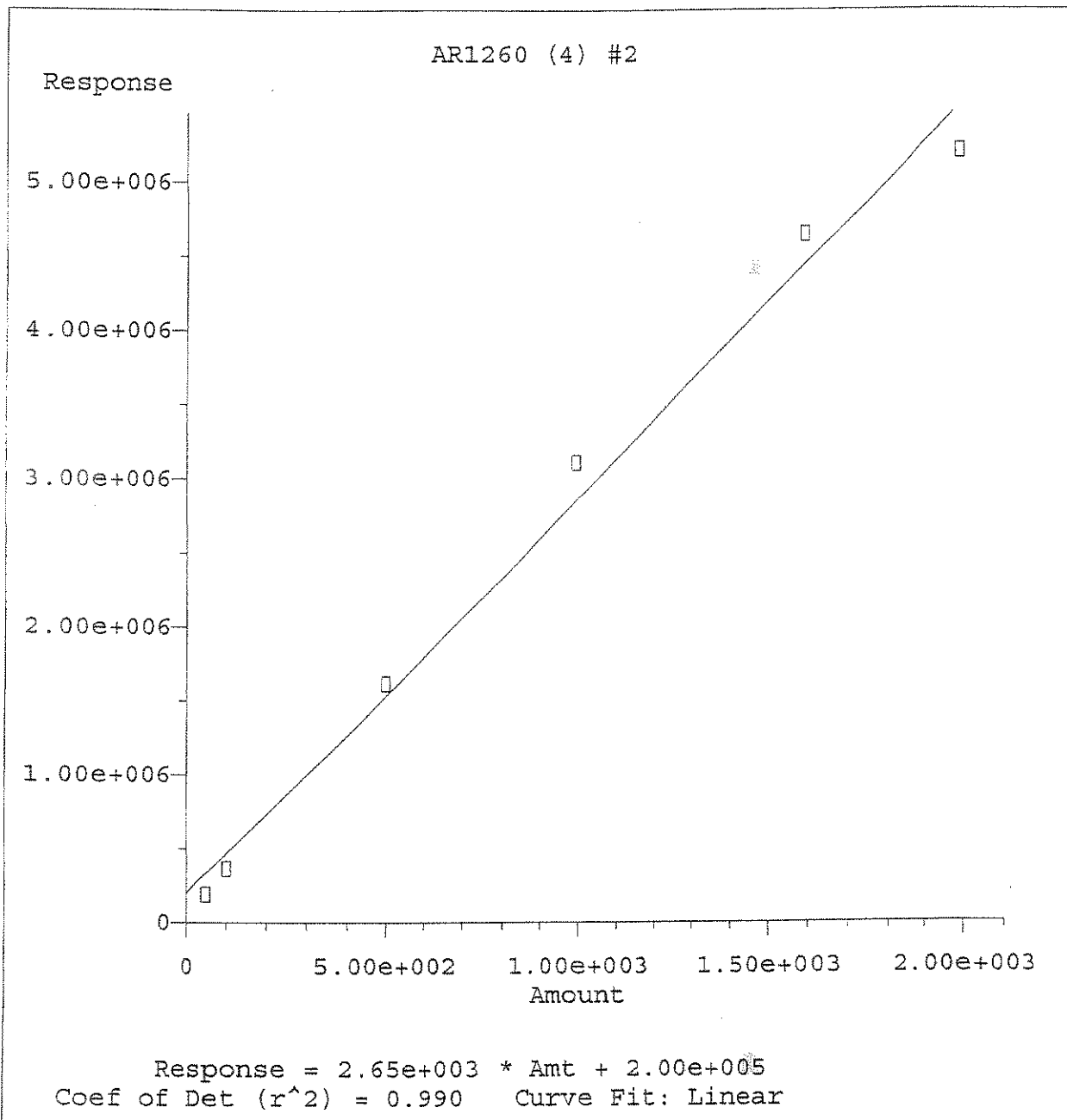


Response = 1.96e+003 \* Amt + 1.25e+005  
Coef of Det (r^2) = 0.996 Curve Fit: Linear

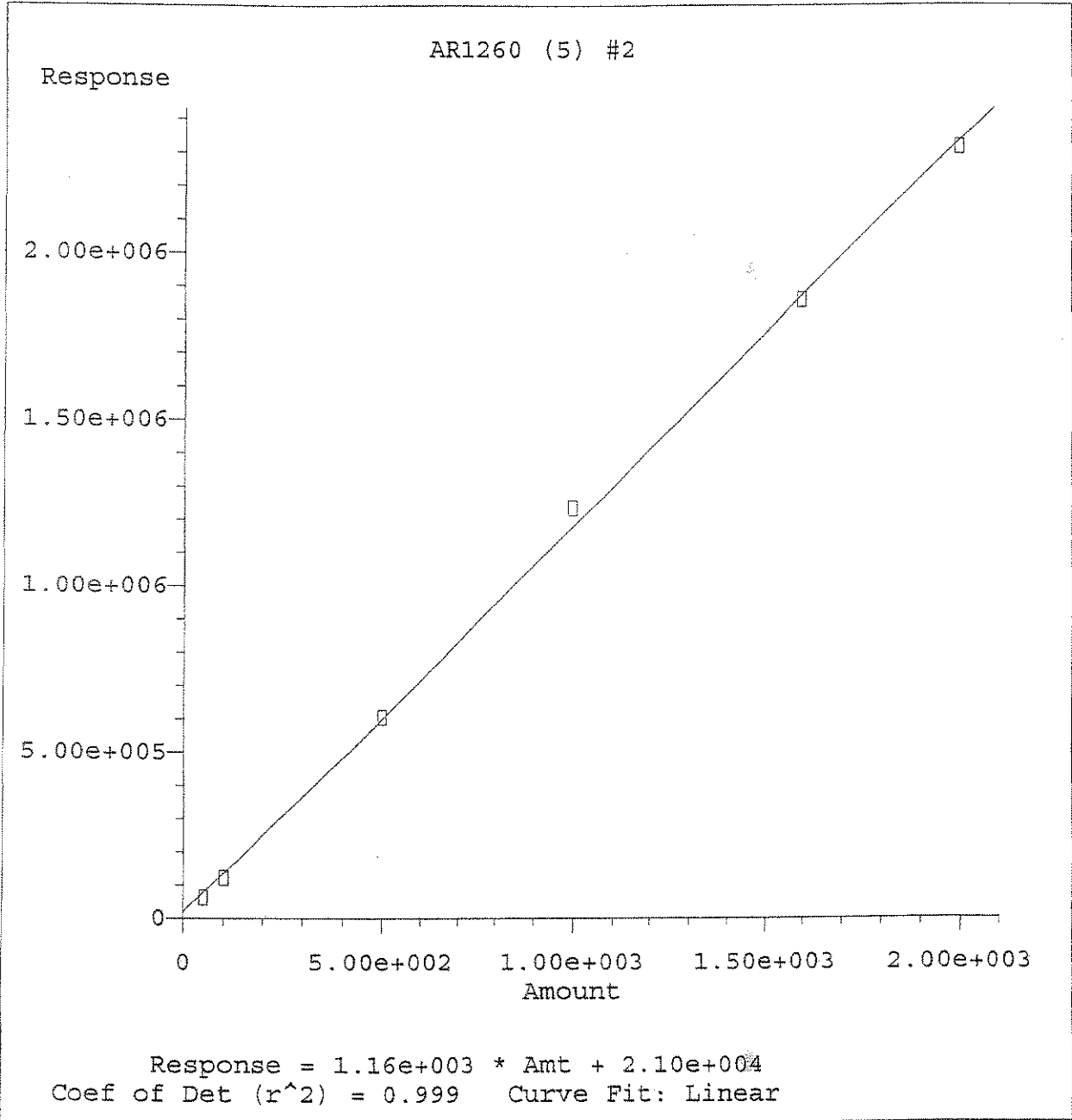
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



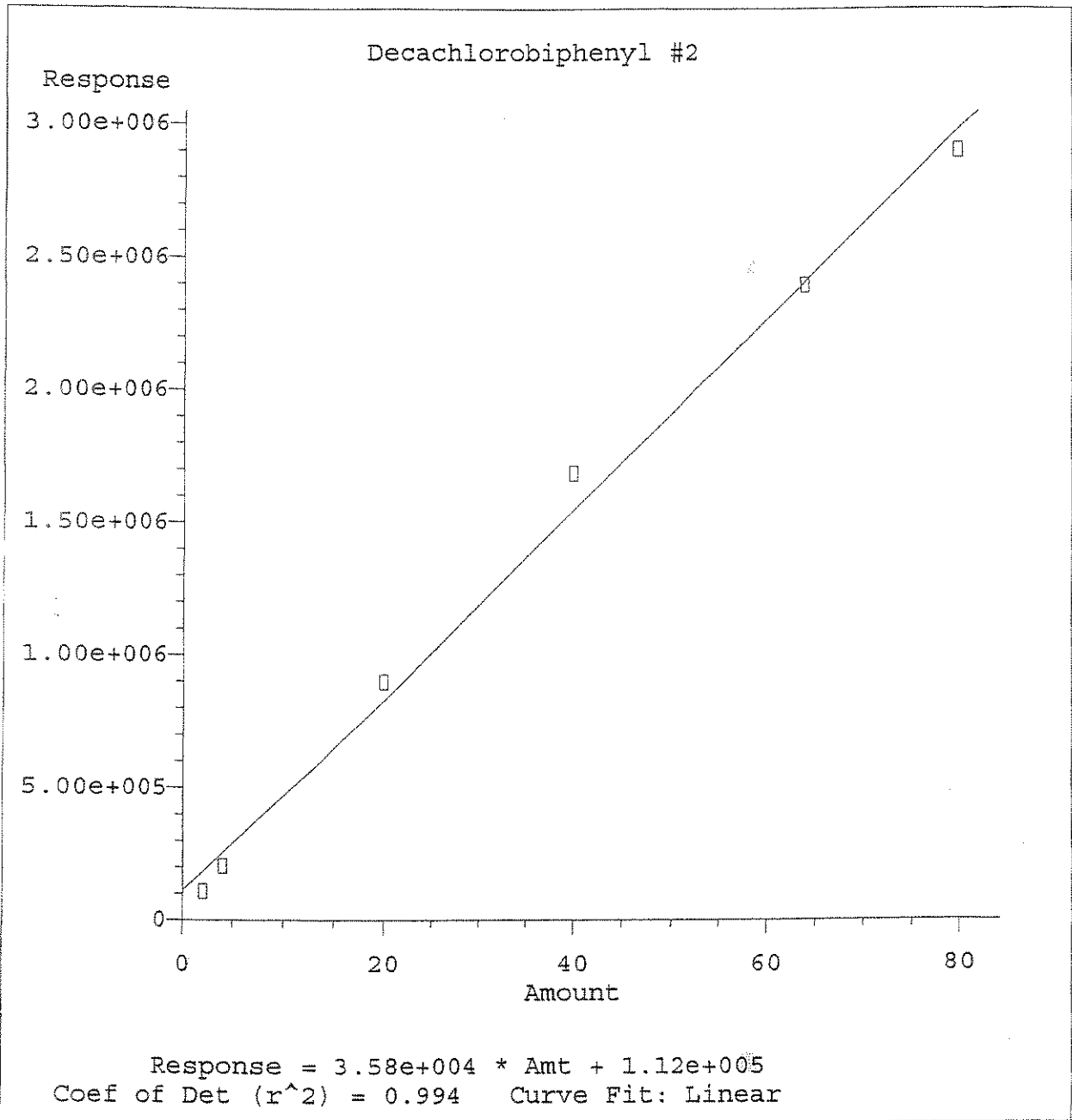
Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006



Method Name: Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Calibration Table Last Updated: Mon Jun 26 11:45:25 2006

## ANALYSIS SEQUENCE

BPG0301

Instrument: SVOAGC5

Calibration ID: UNASSIGNED. 8082-CX

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0301-CCV1	QC		1		6F23058		
BPG0301-CCV2	QC		2		6F23061		
BF62329-BLK1	QC		3				
BF62329-BS1	QC		4				
BF62329-BSD1	QC		5				
0606373-01	SVOC: 8082 ppb PCB	A	6				MACTEC Engineering & Consulting, Inc
0606373-03	SVOC: 8082 ppb PCB	A	7				MACTEC Engineering & Consulting, Inc
0606373-05	SVOC: 8082 ppb PCB	A	8				MACTEC Engineering & Consulting, Inc
0606373-07	SVOC: 8082 ppb PCB	A	9				MACTEC Engineering & Consulting, Inc
0606373-09	SVOC: 8082 ppb PCB	A	10				MACTEC Engineering & Consulting, Inc
BF62329-MS2	QC		11				
BF62329-MSD2	QC		12				
0606373-12	SVOC: 8082 ppb PCB	A	13				MACTEC Engineering & Consulting, Inc
0606373-14	SVOC: 8082 ppb PCB	A	14				MACTEC Engineering & Consulting, Inc
0606373-16	SVOC: 8082 ppb PCB	A	15				MACTEC Engineering & Consulting, Inc
0606373-18	SVOC: 8082 ppb PCB	A	16				MACTEC Engineering & Consulting, Inc
0606373-20	SVOC: 8082 ppb PCB	A	17				MACTEC Engineering & Consulting, Inc
BPG0301-CCV3	QC		18		6F23058		
BPG0301-CCV4	QC		19		6F23061		

Samples Loaded By

Date

Data Prepared By

Date

# ESS LABORATORY GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II

Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/23/06	14	66262306A-14	124L	✓ <del>80024</del>	6F7405T	M
	15	-15	124L53	✓	56	
	16	-16	124T	✓	57	
	17	-17	124557	✓	58	
	18	-18	1257	✓	59	
	19	-19	125757	✓	60	
	20	-20	126L	✓	61	
	21	-21	126257	✓	62	
	22	-22	1268	✓	63	
6/23/06	23	66062306L2	126857	✓ <del>80024</del>	6F740 67	
6/24/06	1	66062406-01	1704	✓ <del>80024</del>		
	2	-02	16604	✓	6F23058	
	3	-03	124L21	✓	59	INT: 1035
	4	-04	124T24	✓	60	
	5	-05	124T24	✓	61	
	6	-06	BF0215-0114	✓		CV cleaned
	7	-07	-031	✓		
	8	-08	-0501	✓		
	9	-09	0606332-01	✓	60	
	10	-10	-02	✓	60 ✓ 42	RTX
	11	-11	-03	✓	42 ✓ 60 ✓ 13	
	12	-12	-04	✓	420 ✓ 60 ✓ 42	
	13	-13	-04M1	✓	420	
	14	-14	-04M10	✓	420	
	15	-15	-04M1	✓		
	16	-16	-04M11	✓		
	17	-17	0606332-02	✓	45 42	CV cleaned
	18	-18	1704	✓		
	19	-19	161001	✓	6F23058 6660301	CV 03:56 PM
6/24/06	19	06062406-19	124L24	✓ <del>80024</del>	59	



# ESS LABORATORY GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II

Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/24/06	99	660666 99	12484	✓ 8002CX	6F23078 6F23060	M
	100	-100	12494	✓	61 CCV2	
6/24/06	91	-92	166000		58	
	18	-18	AF62319-0127	✓		M
	19	-19	-811	✓		
	20	-20	-8501	✓		
	21	-21	0606373-4	✓		
	22	-22	-03	✓	57	
	23	-23	-05	✓		
	24	-24	-07	✓		
	25	-25	-09	✓		
	26	-26	-09M1	✓		
	27	-27	-09M10	✓		
	28	-28	-12	✓		
	29	-29	-14	✓		
	30	-30	-16	✓		
	31	-31	-18	✓		
	32	-32	-20	✓		
	33	-33	0606374-01	✓		
	34	-34	-03	✓		
	35	-35	-05	✓		
	36	-36	-07	✓		
	37	-37	-09	✓		
	91	-91	12484			
	92	-92	166000		6F23078 CCV3 60:04	
	93	-93	12494		59	
	94	-94	12484		60	
	95	-95	12494		61 CCV4	
	96	-96	166000	✓	6F23078 58	
6/24/06	38	-38	0606374-11	✓ 8002CX		

Signal #1 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\097F0101.D Vial: 97  
Signal #2 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\097F0101.D\097R0101.D  
Acq On : 26 Jun 06 03:56 PM Operator: [GC]7R0101.D\DATA.MS  
Sample : 1660 CC Inst : GC5  
Misc : Multiplr: 1.00  
Quant Time: Jun 26 17:09 19106

Method : Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Title :  
Last Update : Mon Jul 10 09:21:55 2006  
Response via : Multiple Level Calibration

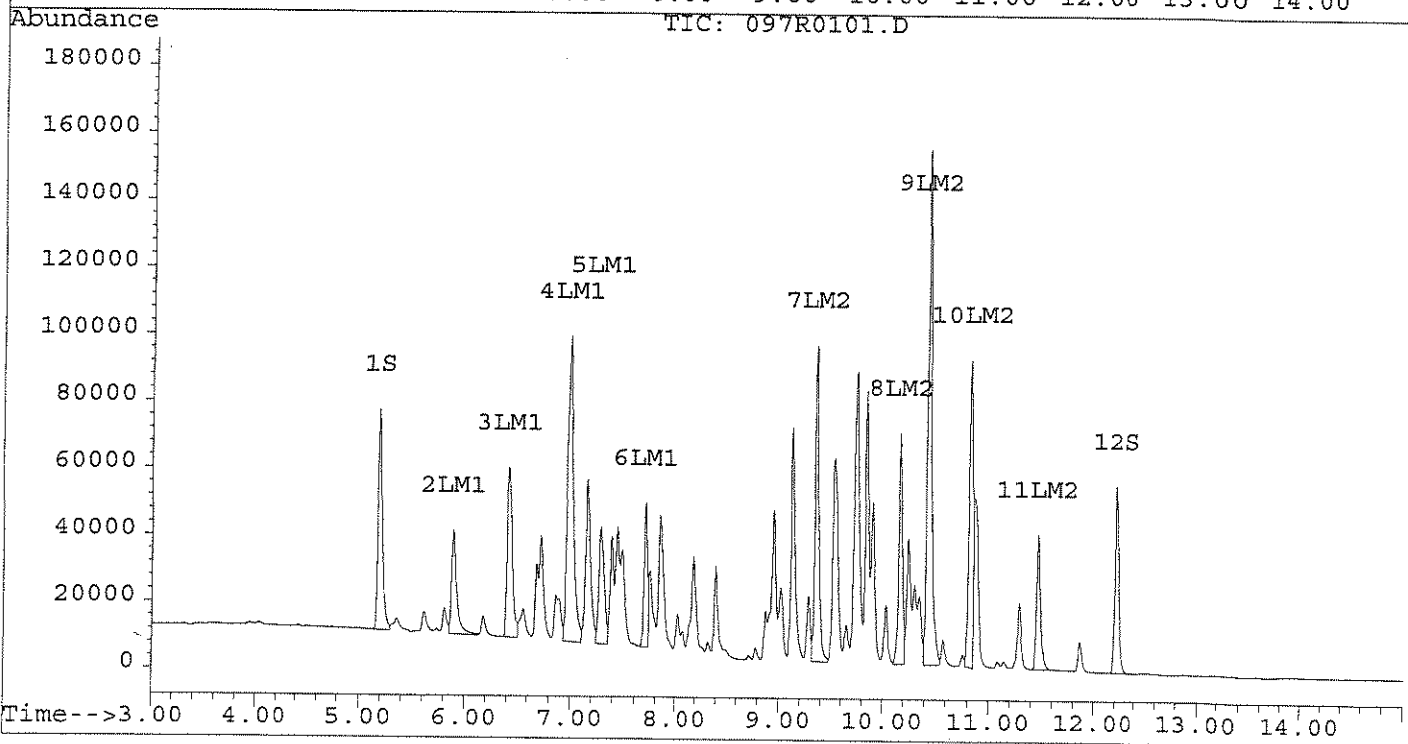
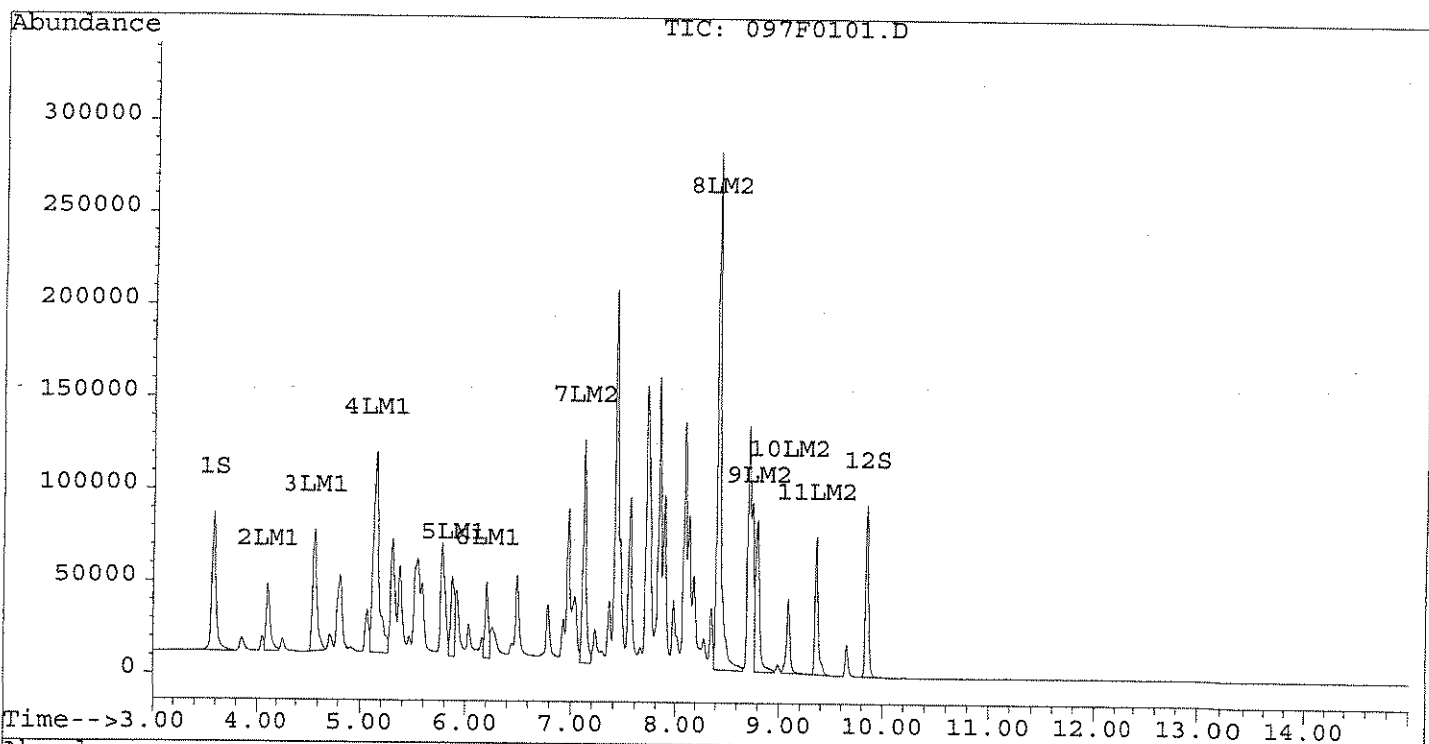
Volume Inj. : 2 uL  
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xylene	3.58	5.18	2195986	1878552	40.180	39.254
			Recovery	=	80.36%	78.51%
12) S Decachlorobiphenyl	9.85	12.22	1811917	1439904	39.815	37.085
			Recovery	=	79.63%	74.17%
Target Compounds						
2) LM1 AR1016 (1)	4.11	5.89	1066316	1093998	953.878	969.567
3) LM1 AR1016 (2)	4.57	6.42	1878385	1756113	1003.022	1000.621
4) LM1 AR1016 (3)	5.14	6.99	4254196	3507397	1213.299	967.711
5) LM1 AR1016 (4)	5.88	7.28	1077851	1234862	1072.128	890.070
6) LM1 AR1016 (5)	6.21	7.70	916309	967038	1012.739	915.566
Total AR1016 (1)			9193056	8559408	5255.066	4743.535
Average AR1016 (1)					1051.013	948.707
7) LM2 AR1260 (1)	7.13	9.35	2664607	2402344	1083.432	817.475
8) LM2 AR1260 (2)	8.42	10.17	6762685	1651150	1088.952	779.687 #
9) LM2 AR1260 (3)	8.80	10.43	2259185	4026094	1044.668	877.368
10) LM2 AR1260 (4)	9.09	10.83	944543	2395212	1107.626	827.542m#
11) LM2 AR1260 (5)	9.36	11.46	1610499	1031775	1106.276	874.585
Total AR1260 (1)			14241518	11506575	5430.954	4176.656
Average AR1260 (1)					1086.191	835.331

Signal #1 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\097F0101.D Vial: 97  
Signal #2 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\097R0101.D  
Acq On : 26 Jun 06 03:56 PM Operator: [GC]7R0101.D\DATA.MS  
Sample : 1660 CC Inst : GC5  
Misc : Multiplr: 1.00  
Quant Time: Jun 26 17:09 19106

Method : Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Title :  
Last Update : Mon Jul 10 09:21:55 2006  
Response via : Multiple Level Calibration

Volume Inj. : 2 uL  
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
Signal #1 Info : 0.32 Signal #2 Info : 0.32



Quantitation Report

Signal #1 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\100F0101.D Vial: 100  
 Signal #2 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\100F0101.D\100R0101.D  
 Acq On : 26 Jun 06 04:51 PM Operator: [GC]0R0101.D\DATA.MS  
 Sample : 1254 CC Inst : GC5  
 Misc : Multiplr: 1.00  
 Quant Time: Jul 14 17:21 19106

Method : Q:\SVOA\GC5\_GG\METHODS\1254CX.M  
 Title :  
 Last Update : Mon Jun 26 14:49:58 2006  
 Response via : Single Level Calibration

Volume Inj. : 2 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.32 Signal #2 Info : 0.32

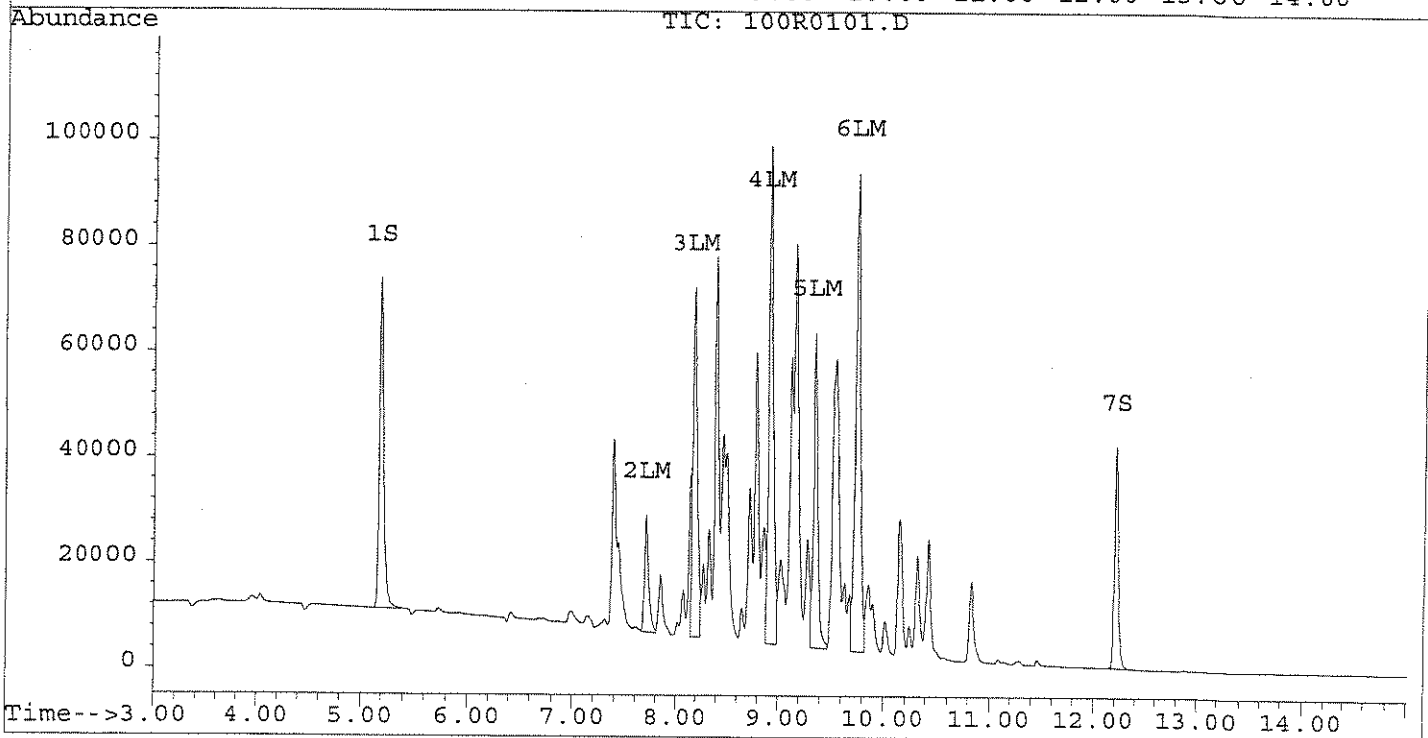
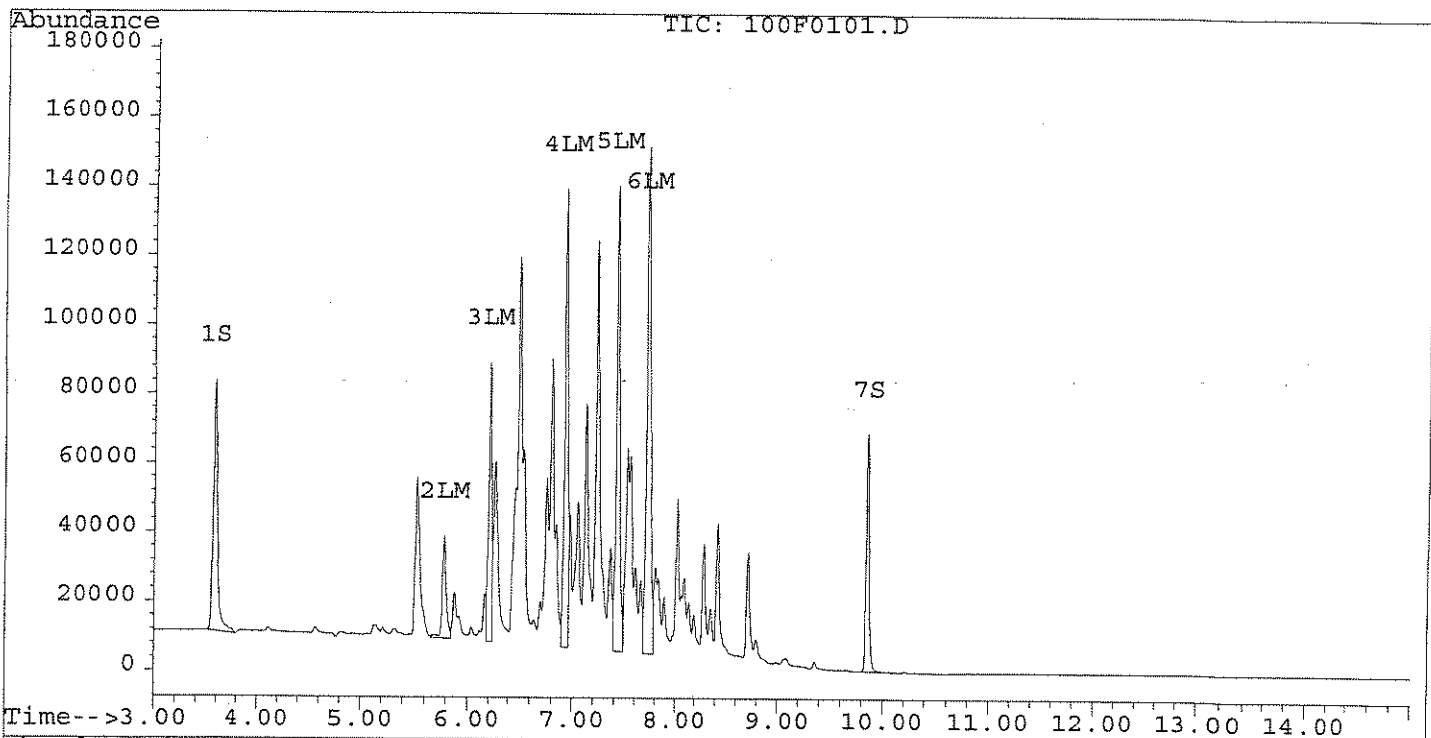
Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xylen	3.58	5.18	2104108	1805184	38.100	38.712
			Recovery	=	76.20%	77.42%
7) S Decachlorobiphenyl	9.85	12.22	1356302	1096709	38.633	37.769
			Recovery	=	77.27%	75.54%
Target Compounds						
2) LM AR1254 (1)	5.78	7.70	754604	623270	1055.307	912.814
3) LM AR1254 (2)	6.21	8.18	1702323	2014746	884.413	1006.749
4) LM AR1254 (3)	6.93	8.92	2874699	2834716	1021.679	929.856
5) LM AR1254 (4)	7.42	9.35	3176591	1659140	1002.095	908.539
6) LM AR1254 (5)	7.72	9.75	4074426	2868095	995.375	915.747
Total AR1254 (1)			12582642	9999966	4958.869	4673.704
Average AR1254 (1)					991.774	934.741

Quantitation Report

Signal #1 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\100F0101.D Vial: 100  
Signal #2 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\100R0101.D  
Acq On : 26 Jun 06 04:51 PM Operator: [GC]0R0101.D\DATA.MS  
Sample : 1254 CC Inst : GC5  
Misc : Multiplr: 1.00  
Quant Time: Jul 14 17:21 19106

Method : Q:\SVOA\GC5\_GG\METHODS\1254CX.M  
Title :  
Last Update : Mon Jun 26 14:49:58 2006  
Response via : Single Level Calibration

Volume Inj. : 2 uL  
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
Signal #1 Info : 0.32 Signal #2 Info : 0.32



Quantitation Report

Signal #1 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\092F0201.D Vial: 92  
 Signal #2 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\092F0201.D\092R0201.D  
 Acq On : 27 Jun 06 00:04 AM Operator: [GC]2R0201.D\DATA.MS  
 Sample : 1660 CC Inst : GC5  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 27 8:17 19106

Method : Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
 Title :  
 Last Update : Mon Jul 10 09:21:55 2006  
 Response via : Multiple Level Calibration

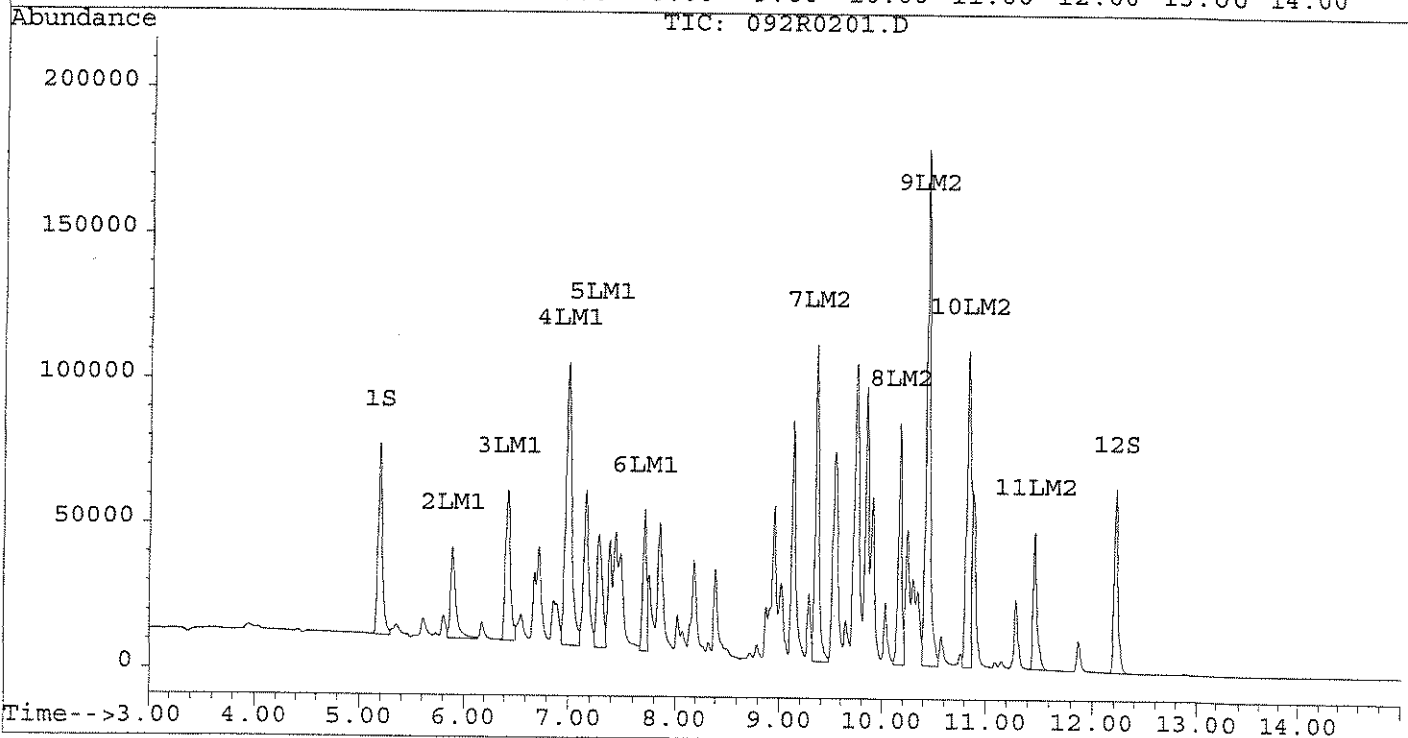
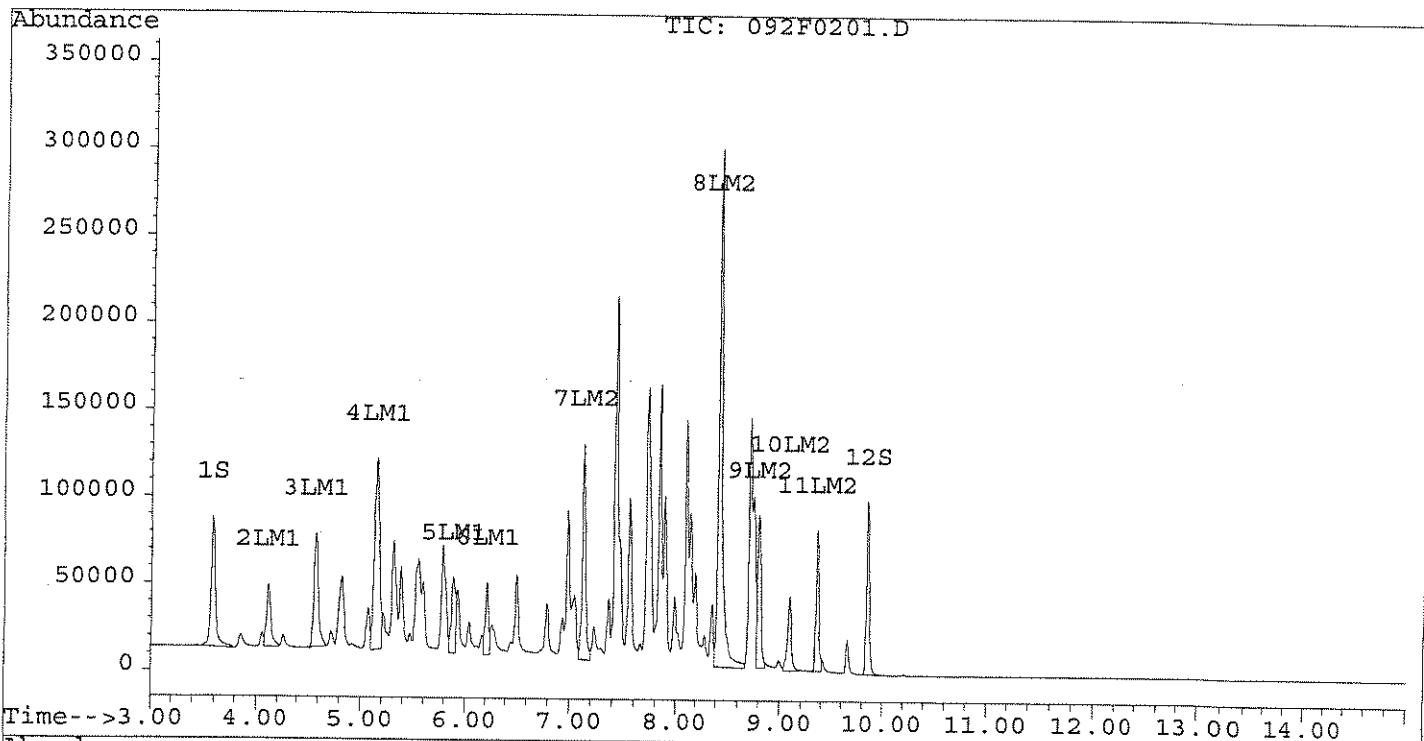
Volume Inj. : 2 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xylen	3.58	5.19	2254638	1892985	41.295	39.568
			Recovery	=	82.59%	79.14%
12) S Decachlorobiphenyl	9.85	12.22	1933789	1655575	42.799	43.108
			Recovery	=	85.60%	86.22%
Target Compounds						
2) LM1 AR1016 (1)	4.11	5.89	1060960	1124695	948.804	998.336
3) LM1 AR1016 (2)	4.57	6.42	1871948	1790976	999.233	1022.000
4) LM1 AR1016 (3)	5.14	6.99	3729006	3821924	1050.894m	1061.494
5) LM1 AR1016 (4)	5.88	7.28	1082096	1435871	1076.637	1042.334
6) LM1 AR1016 (5)	6.21	7.71	923807	1120821	1021.515	1073.893
Total AR1016 (1)			8667817	9294288	5097.082	5198.056
Average AR1016 (1)					1019.416	1039.611
7) LM2 AR1260 (1)	7.13	9.35	2731149	2855291	1113.724	986.976
8) LM2 AR1260 (2)	8.42	10.17	7145142	2028906	1155.545	972.659
9) LM2 AR1260 (3)	8.80	10.43	2159046	4738178	995.076m	1042.800
10) LM2 AR1260 (4)	9.09	10.83	1034918	3079264	1218.838m	1085.370m
11) LM2 AR1260 (5)	9.36	11.46	1613342	1207351	1108.336m	1026.499
Total AR1260 (1)			14683596	13908990	5591.518	5114.305
Average AR1260 (1)					1118.304	1022.861

Signal #1 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\092F0201.D Vial: 92  
Signal #2 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\092R0201.D  
Acq On : 27 Jun 06 00:04 AM Operator: [GC]2R0201.D\DATA.MS  
Sample : 1660 CC Inst : GC5  
Misc : Multiplr: 1.00  
Quant Time: Jun 27 8:17 19106

Method : Q:\SVOA\GC5\_GG\METHODS\8082CX.M  
Title :  
Last Update : Mon Jul 10 09:21:55 2006  
Response via : Multiple Level Calibration

Volume Inj. : 2 uL  
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
Signal #1 Info : 0.32 Signal #2 Info : 0.32



Quantitation Report

Signal #1 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\095F0201.D Vial: 95  
 Signal #2 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\095F0201.D\095R0201.D  
 Acq On : 27 Jun 06 00:59 AM Operator: [GC]5R0201.D\DATA.MS  
 Sample : 1254 CC Inst : GC5  
 Misc : Multiplr: 1.00  
 Quant Time: Jul 14 17:22 19106

Method : Q:\SVOA\GC5\_GG\METHODS\1254CX.M  
 Title :  
 Last Update : Mon Jun 26 14:49:58 2006  
 Response via : Single Level Calibration

Volume Inj. : 2 uL  
 Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
 Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
-----						
System Monitoring Compounds						
1) S Tetrachloro-m-xylen	3.58	5.19	2110630	1820807	38.218	39.047
			Recovery	=	76.44%	78.09%
7) S Decachlorobiphenyl	9.85	12.22	1382870	1168832	39.390	40.253
			Recovery	=	78.78%	80.51%
Target Compounds						
2) LM AR1254 (1)	5.78	7.70	682991	639555	955.157	936.664
3) LM AR1254 (2)	6.21	8.18	1685114	2547191	875.473	1272.806 #
4) LM AR1254 (3)	6.93	8.92	2862248	3010066	1017.253	987.375
5) LM AR1254 (4)	7.42	9.35	3169215	1789996	999.769	980.194
6) LM AR1254 (5)	7.72	9.75	4072838	3103802	994.987	991.005
Total AR1254 (1)			12472405	11090609	4842.638	5168.045
Average AR1254 (1)					968.528	1033.609

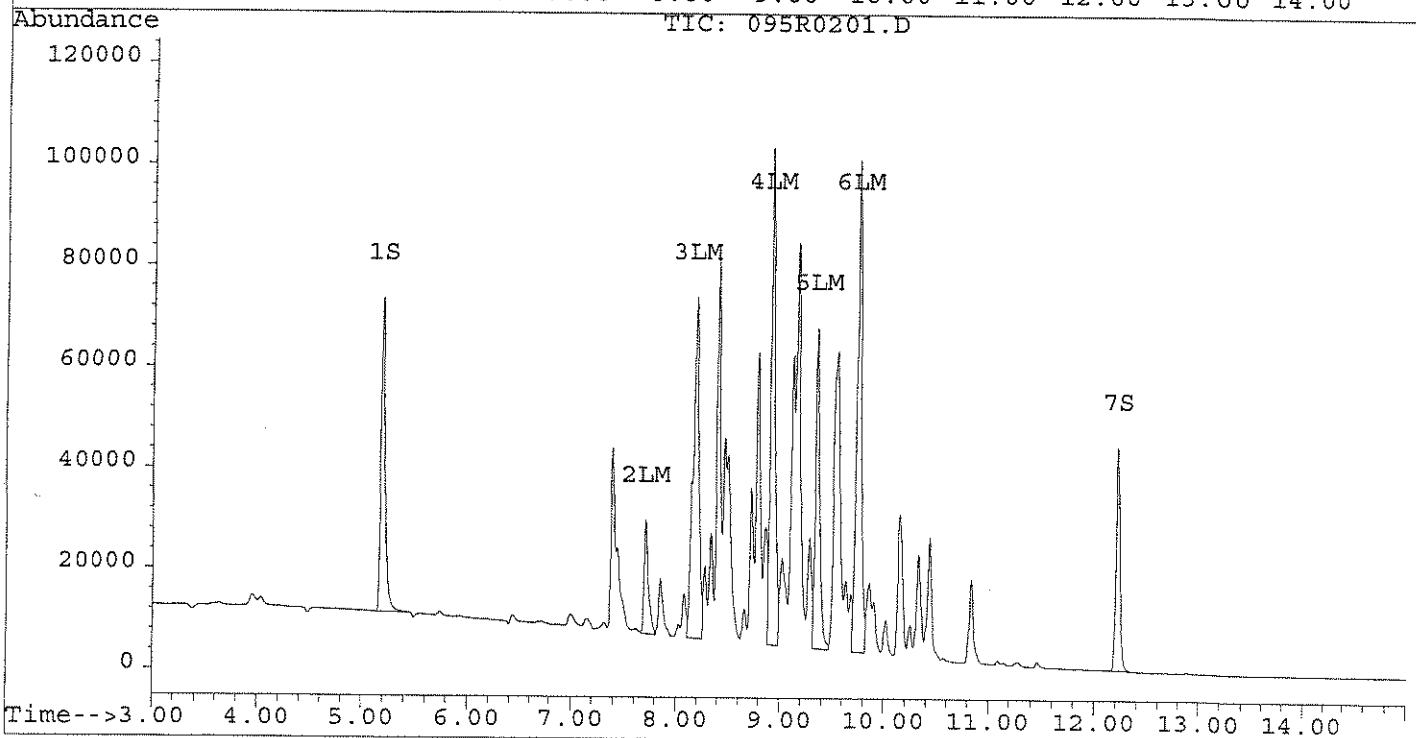
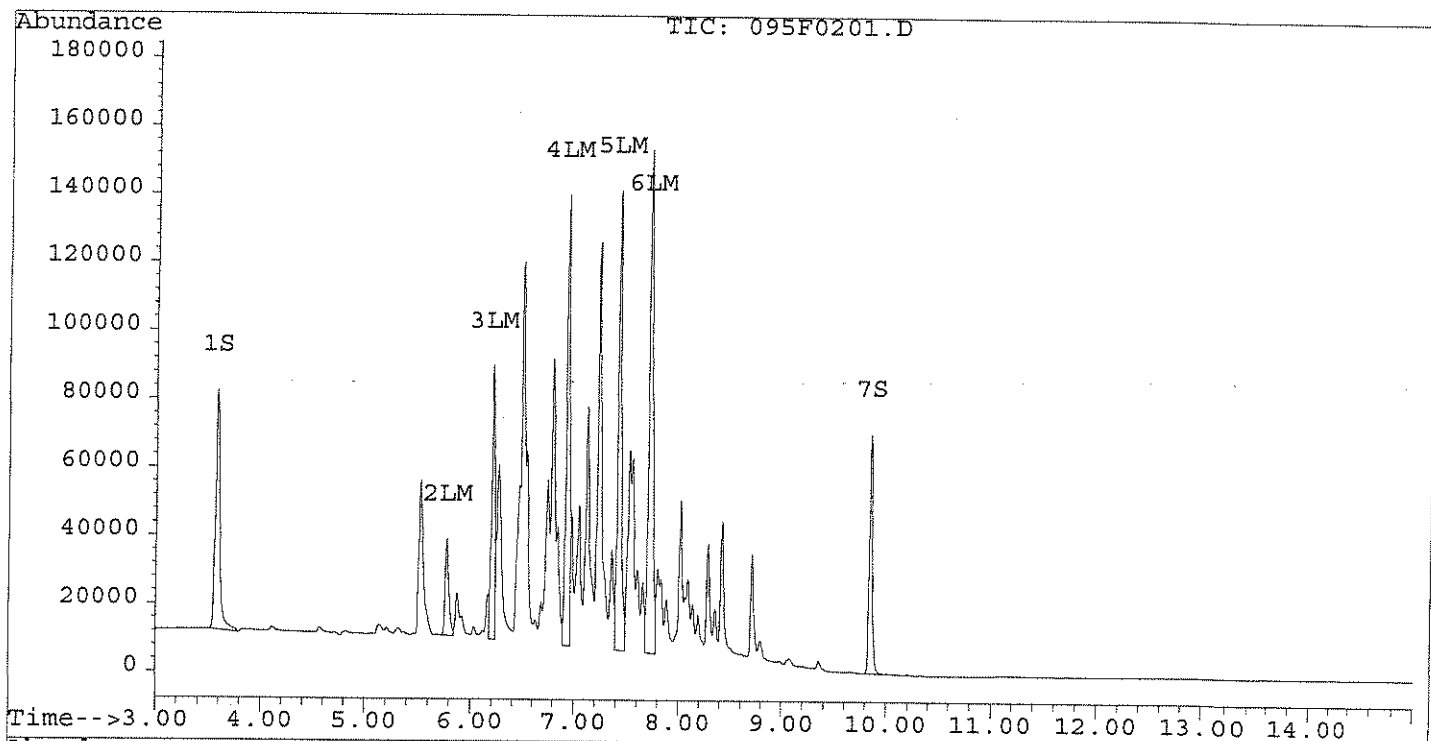


Quantitation Report

Signal #1 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\095F0201.D Vial: 95  
Signal #2 : Q:\SVOA\GC5\_GG\DATA\GG0606\GG062606\095R0201.D  
Acq On : 27 Jun 06 00:59 AM Operator: [GC]5R0201.D\DATA.MS  
Sample : 1254 CC Inst : GC5  
Misc : Multiplr: 1.00  
Quant Time: Jul 14 17:22 19106

Method : Q:\SVOA\GC5\_GG\METHODS\1254CX.M  
Title :  
Last Update : Mon Jun 26 14:49:58 2006  
Response via : Single Level Calibration

Volume Inj. : 2 uL  
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II  
Signal #1 Info : 0.32 Signal #2 Info : 0.32



PCB  
Logbooks

# ESS Organic Preparation Logbook

Project #: 20000373 Surrogate ID# 200037M Matrix Spike ID# AD1 Analytical Matrix: AD1 Split Extraction\*   
 Prep Date: 06/23/06 A 6609078 D 6605037 Extraction Time: \_\_\_\_\_  
 Batch ID: 20000373 B NA E 6621098 Start: 1400  
 Extraction Method: 3541 C NA F NA Finish: \_\_\_\_\_

\* Half of the final extract volume (0.5ml) is exchanged into 5ml  
 5ml hexane and transferred as Vol 1. The other half (0.5ml  
 CH<sub>2</sub>Cl<sub>2</sub>) is transferred as Volume 2.

ESS ID	Vol (ml) Wt (g)	Surrogate (ul or mg)	Matrix Spike (ul or mg)	Extract Vol (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Vol #1 (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Vol #2 (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Date	Bath Temp (C)	pH	Discard Bottle #	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.	Analysis Performed
PTX0606373-0	20.0	1	NA	10	10	NA	6/26/06	40	NA	NA		EM			PCB <input checked="" type="checkbox"/> B/N SVOA <input type="checkbox"/> SVOA <input type="checkbox"/> LL PAH <input type="checkbox"/> PEST <input type="checkbox"/> TPH/GC <input checked="" type="checkbox"/> BIS-2 <input type="checkbox"/> PAH <input type="checkbox"/>
PTX0606373-1	20.0	1	1	10	10										
PTX0606373-2	20.0	1	1	10	10										
PTX0606373-3	20.0	1	1	10	10										
PTX0606373-4	20.0	1	NA	10	10										
PTX0606373-5	20.0	1	NA	10	10										
PTX0606373-6	20.0	1	1	10	10										
PTX0606373-7	20.0	1	1	10	10										
PTX0606373-8	20.0	1	1	10	10										
PTX0606373-9	20.0	1	1	10	10										
PTX0606373-10	20.0	1	1	10	10										
PTX0606373-11	20.0	1	1	10	10										
PTX0606373-12	20.0	1	1	10	10										
PTX0606373-13	20.0	1	1	10	10										
PTX0606373-14	20.0	1	1	10	10										
PTX0606373-15	20.0	1	1	10	10										
PTX0606373-16	20.0	1	1	10	10										
PTX0606373-17	20.0	1	1	10	10										
PTX0606373-18	20.0	1	1	10	10										
PTX0606373-19	20.0	1	1	10	10										
PTX0606373-20	20.0	1	1	10	10										
PTX0606373-21	20.0	1	1	10	10										
PTX0606373-22	20.0	1	1	10	10										
PTX0606373-23	20.0	1	1	10	10										
PTX0606373-24	20.0	1	1	10	10										
PTX0606373-25	20.0	1	1	10	10										
PTX0606373-26	20.0	1	1	10	10										
PTX0606373-27	20.0	1	1	10	10										
PTX0606373-28	20.0	1	1	10	10										
PTX0606373-29	20.0	1	1	10	10										
PTX0606373-30	20.0	1	1	10	10										
PTX0606373-31	20.0	1	1	10	10										
PTX0606373-32	20.0	1	1	10	10										
PTX0606373-33	20.0	1	1	10	10										
PTX0606373-34	20.0	1	1	10	10										
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PTX0606373-36	20.0	1	1	10	10										
PTX0606373-37	20.0	1	1	10	10										
PTX0606373-38	20.0	1	1	10	10										
PTX0606373-39	20.0	1	1	10	10										
PTX0606373-40	20.0	1	1	10	10										
PTX0606373-41	20.0	1	1	10	10										
PTX0606373-42	20.0	1	1	10	10										
PTX0606373-43	20.0	1	1	10	10										
PTX0606373-44	20.0	1	1	10	10										
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PTX0606373-46	20.0	1	1	10	10										
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PTX0606373-63	20.0	1	1	10	10										
PTX0606373-64	20.0	1	1	10	10										
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PTX0606373-76	20.0	1	1	10	10										
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PTX0606373-86	20.0	1	1	10	10										
PTX0606373-87	20.0	1	1	10	10										
PTX0606373-88	20.0	1	1	10	10										
PTX0606373-89	20.0	1	1	10	10										
PTX0606373-90	20.0	1	1	10	10										
PTX0606373-91	20.0	1	1	10	10										
PTX0606373-92	20.0	1	1	10	10										
PTX0606373-93	20.0	1	1	10	10										
PTX0606373-94	20.0	1	1	10	10										
PTX0606373-95	20.0	1	1	10	10										
PTX0606373-96	20.0	1	1	10	10										
PTX0606373-97	20.0	1	1	10	10										
PTX0606373-98	20.0	1	1	10	10										
PTX0606373-99	20.0	1	1	10	10										
PTX0606373-100	20.0	1	1	10	10			</							



# TPH Data Package

# TPH Sample Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3101  
Date Sampled: 06/21/06 10:20  
Percent Solids: 24  
Initial Volume: 20.1  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-01  
Sample Matrix: Soil  
Analyst: JLS  
Prepared: 06/24/06

### 8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Total Petroleum Hydrocarbons	961	mg/kg dry	155	1	06/28/06

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: O-Terphenyl</i>	57 %		40-140

815

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3001  
Date Sampled: 06/21/06 13:30  
Percent Solids: 80  
Initial Volume: 19.9  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-03  
Sample Matrix: Soil  
Analyst: JLS  
Prepared: 06/24/06

### 8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Total Petroleum Hydrocarbons	1240	mg/kg dry	47.1	1	06/28/06

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: O-Terphenyl</i>	66 %		40-140



# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2801  
Date Sampled: 06/21/06 14:02  
Percent Solids: 27  
Initial Volume: 20.5  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-05  
Sample Matrix: Soil  
Analyst: JLS  
Prepared: 06/24/06

### 8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Total Petroleum Hydrocarbons	394	mg/kg dry	136	1	06/28/06

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: O-Terphenyl</i>	81 %		40-140

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2901  
Date Sampled: 06/21/06 14:42  
Percent Solids: 25  
Initial Volume: 19.5  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-07  
Sample Matrix: Soil  
Analyst: JLS  
Prepared: 06/24/06

### 8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Total Petroleum Hydrocarbons	459	mg/kg dry	154	1	06/27/06

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: O-Terphenyl</i>	86 %		40-140

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3201  
Date Sampled: 06/21/06 15:22  
Percent Solids: 72  
Initial Volume: 20.9  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-09  
Sample Matrix: Soil  
Analyst: JLS  
Prepared: 06/24/06

### 8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Total Petroleum Hydrocarbons	209	mg/kg dry	49.8	1	06/28/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: O-Terphenyl	68 %		40-140

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2001  
Date Sampled: 06/22/06 08:40  
Percent Solids: 43  
Initial Volume: 19.7  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-12  
Sample Matrix: Soil  
Analyst: JLS  
Prepared: 06/24/06

### 8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Total Petroleum Hydrocarbons	1810	mg/kg dry	88.5	1	06/28/06
	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>		
<i>Surrogate: O-Terphenyl</i>	36 %	+	40-140		

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1701  
Date Sampled: 06/22/06 09:15  
Percent Solids: 71  
Initial Volume: 20.8  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-14  
Sample Matrix: Soil  
Analyst: JLS  
Prepared: 06/24/06

### 8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Total Petroleum Hydrocarbons	83.4	mg/kg dry	50.8	1	06/27/06

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: O-Terphenyl</i>	93 %		40-140

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1001  
Date Sampled: 06/22/06 09:45  
Percent Solids: 85  
Initial Volume: 20.7  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-16  
Sample Matrix: Soil  
Analyst: JLS  
Prepared: 06/24/06

### 8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Total Petroleum Hydrocarbons	ND	mg/kg dry	42.6	1	06/27/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: O-Terphenyl	89 %		40-140

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1101  
Date Sampled: 06/22/06 10:15  
Percent Solids: 15  
Initial Volume: 19.8  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-18  
Sample Matrix: Soil  
Analyst: JLS  
Prepared: 06/24/06

### 8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Total Petroleum Hydrocarbons	ND	mg/kg dry	253	1	06/27/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: O-Terphenyl	90 %		40-140

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1201  
Date Sampled: 06/22/06 11:01  
Percent Solids: 45  
Initial Volume: 19.6  
Final Volume: 1  
Extraction Method: 3541

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-20  
Sample Matrix: Soil  
Analyst: JLS  
Prepared: 06/24/06

### 8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>DF</u>	<u>Analyzed</u>
Total Petroleum Hydrocarbons	ND	mg/kg dry	85.0	1	06/27/06

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: O-Terphenyl	94 %		40-140



TPH  
Quality Control Data

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606373

### Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
---------	--------	-----	-------	-------------	---------------	------	-------------	-----	-----------	-----------

#### 8082 Polychlorinated Biphenyls (PCB)

##### Batch BF62329 - 3541

Aroclor 1260	336	33.3	ug/Kg wet	333		101	40-140	4	50	
Surrogate: Decachlorobiphenyl	17.9		ug/Kg wet	16.7		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	17.8		ug/Kg wet	16.7		107	30-150			
Surrogate: Tetrachloro-m-xylene	15.8		ug/Kg wet	16.7		95	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	15.6		ug/Kg wet	16.7		93	30-150			

##### Matrix Spike Source: 0606373-09

Aroclor 1016	451	69.0	ug/Kg dry	691	ND	65	40-140			
Aroclor 1260	422	69.0	ug/Kg dry	691	ND	61	40-140			
Surrogate: Decachlorobiphenyl	21.0		ug/Kg dry	34.5		61	30-150			
Surrogate: Decachlorobiphenyl [2C]	24.9		ug/Kg dry	34.5		72	30-150			
Surrogate: Tetrachloro-m-xylene	25.5		ug/Kg dry	34.5		74	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	23.0		ug/Kg dry	34.5		67	30-150			

##### Matrix Spike Dup Source: 0606373-09

Aroclor 1016	530	69.7	ug/Kg dry	698	ND	76	40-140	16	50	
Aroclor 1260	504	69.7	ug/Kg dry	698	ND	72	40-140	18	50	
Surrogate: Decachlorobiphenyl	26.7		ug/Kg dry	34.9		77	30-150			
Surrogate: Decachlorobiphenyl [2C]	36.8		ug/Kg dry	34.9		105	30-150			
Surrogate: Tetrachloro-m-xylene	30.3		ug/Kg dry	34.9		87	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	28.5		ug/Kg dry	34.9		82	30-150			

#### 8100M Total Petroleum Hydrocarbons

##### Batch BF62406 - 3541

<b>Blank</b>										
Total Petroleum Hydrocarbons	ND	37.5	mg/kg wet							
Surrogate: O-Terphenyl	4.19		mg/kg wet	5.00		84	40-140			
<b>LCS</b>										
Total Petroleum Hydrocarbons	671	37.5	mg/kg wet	1000		67	40-140			
Surrogate: O-Terphenyl	5.31		mg/kg wet	5.00		106	40-140			
<b>LCS Dup</b>										
Total Petroleum Hydrocarbons	653	37.5	mg/kg wet	1000		65	40-140	3	50	
Surrogate: O-Terphenyl	5.04		mg/kg wet	5.00		101	40-140			
<b>Matrix Spike Source: 0606373-16</b>										
Total Petroleum Hydrocarbons	953	44.6	mg/kg dry	1190	ND	80	40-140			
Surrogate: O-Terphenyl	5.73		mg/kg dry	5.94		96	40-140			
<b>Matrix Spike Dup Source: 0606373-16</b>										
Total Petroleum Hydrocarbons	1050	43.7	mg/kg dry	1160	ND	91	40-140	10	50	
Surrogate: O-Terphenyl	6.32		mg/kg dry	5.82		109	40-140			

#### 8270C Polynuclear Aromatic Hydrocarbons

826

##### Batch BF62605 - 3541

# TPH Calibration Data

ANALYSIS SEQUENCE

BPG0268

Instrument: SVOAGC2

Calibration ID: UNASSIGNED *Flow RBC*

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0268-CAL1	QC		1		6F15038		
BPG0268-CAL2	QC		2		6F15039		
BPG0268-CAL3	QC		3		6F15040		
BPG0268-CAL4	QC		4		6F15041		
BPG0268-CAL5	QC		5		6F15042		
BPG0268-SCV1	QC		6		6F15043		

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 Samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

826

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 Data Processed By \_\_\_\_\_ Date \_\_\_\_\_

ESS LABORATORY  
GC2 Rear RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS/DILUTION/STANDARD ID	ANALYST
6/20/06	57	57	BF61708-BIKI	8100 FEE <sup>REB</sup>	✓ RR	JLS
	58	58	-BS1		✓	
	59	59	-BS1		✓	
	60	60	0606291-01		✓	
	61	61	-01MS1		✓	
	62	62	-01MS1		RR	
6/20/06	63	63	TPH50	8100 FEE <sup>REB</sup>	HIGH	JLS
6/21/06	51	51	TPH50	8100 REB	✓	
	52	52	BF61708-BIKI		} Samples ran 2x	
	53	53	-BS1			
	54	54	-BS1			
	55	55	0606291-01			
	56	56	-01MS1			
	57	57	-01MS1			
	58	58	solvent			
	59	59	TPH50			
6/21/06	60	60	TPH50	8100 REB	HIGH taking original data	JLS
6/23/06	51	51	TPH50	8100 REB	✓	JLS
	52	52	10		✓ 6F15038 CAL1	
	53	53	50		✓ 39 2	
	54	54	100		✓ 40 3	
	55	55	250		✓ 41 4	
	56	56	500		✓ 42 CAL5	
6/23/06	57	57	TPH 50SS	8100 REB	✓ 6F150 43 SCV1	JLS
	58	58	BF62307-BIKI			
	59	59	-BS1			
	60	60	-BS1			
6/23/06	61	61	0606357-05	8100 REB		JLS

Control Number: 60.0003-0601A

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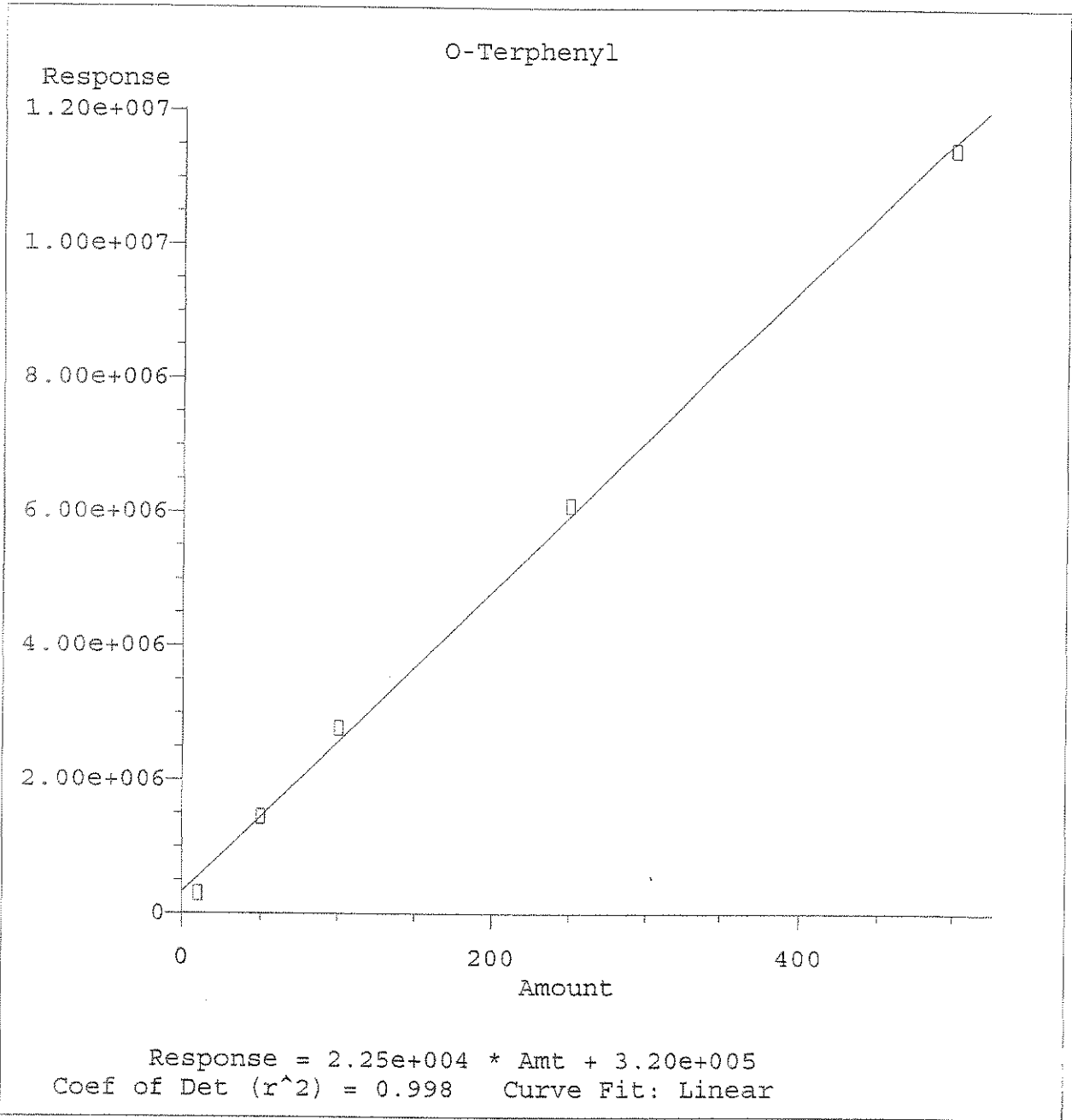
Response Factor Report GC2

Method : Q:\SVOA\TPH\_GC2\METHODS\8100RBC.M  
 Title : ELEMENT ID: 0502007  
 Last Update : Fri Jun 23 10:51:24 2006  
 Response via : Initial Calibration

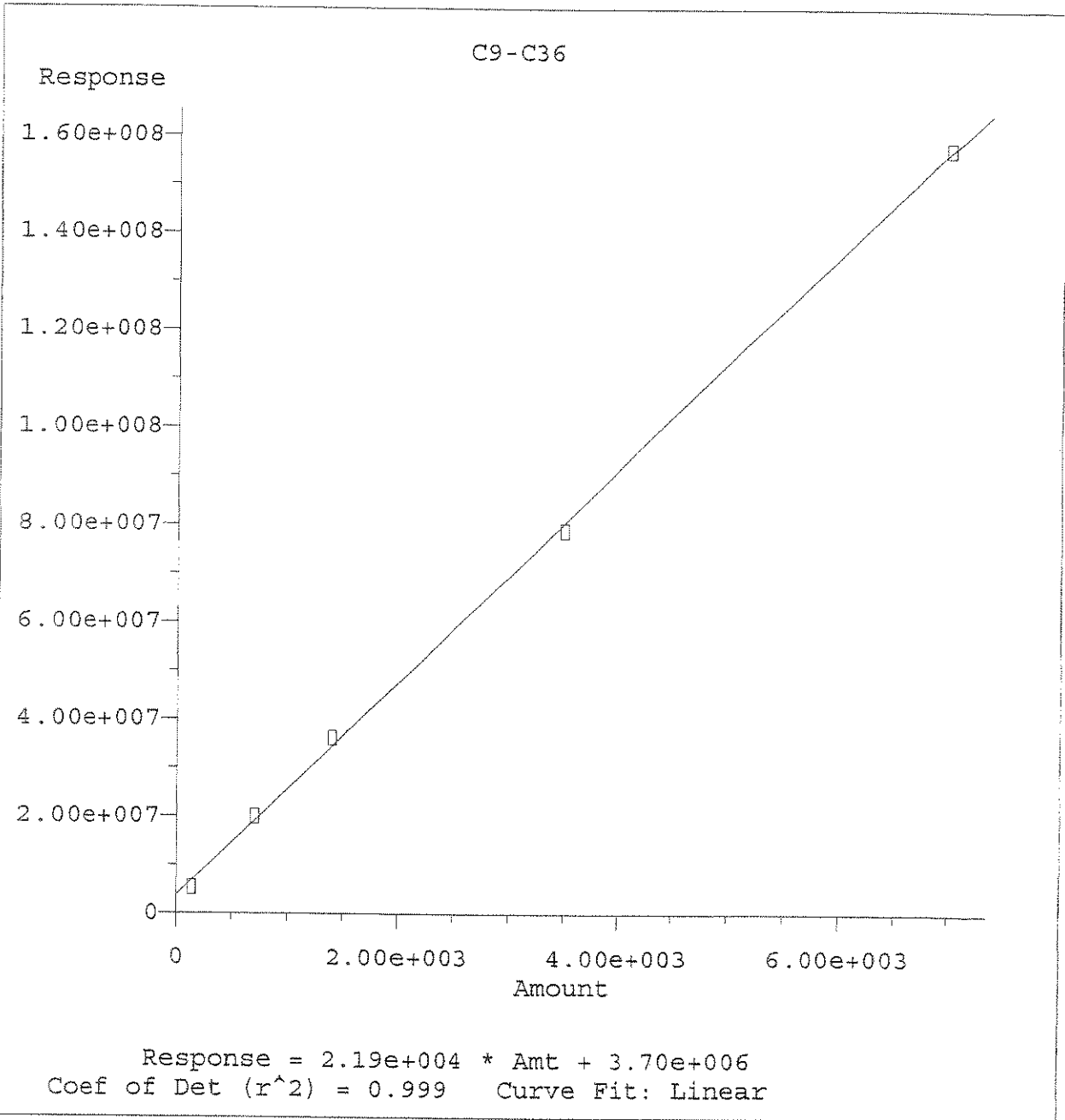
Calibration Files

50 =053R0101.D 10 =052R0101.D 100 =054R0101.D  
 250 =055R0101.D 500 =056R0101.D

Compound		50	10	100	250	500	Avg		%RSD
1) S	O-Terphenyl	29.0	29.8	27.7	24.4	22.9	26.8	E3	11.17 <i>benia</i>
2) H	C9-C36	28.5	38.2	25.8	22.5	22.5	27.5	E3	23.54
3) H	C10-C28	27.0	30.0	25.6	23.0	23.1	25.7	E3	11.40 ↓

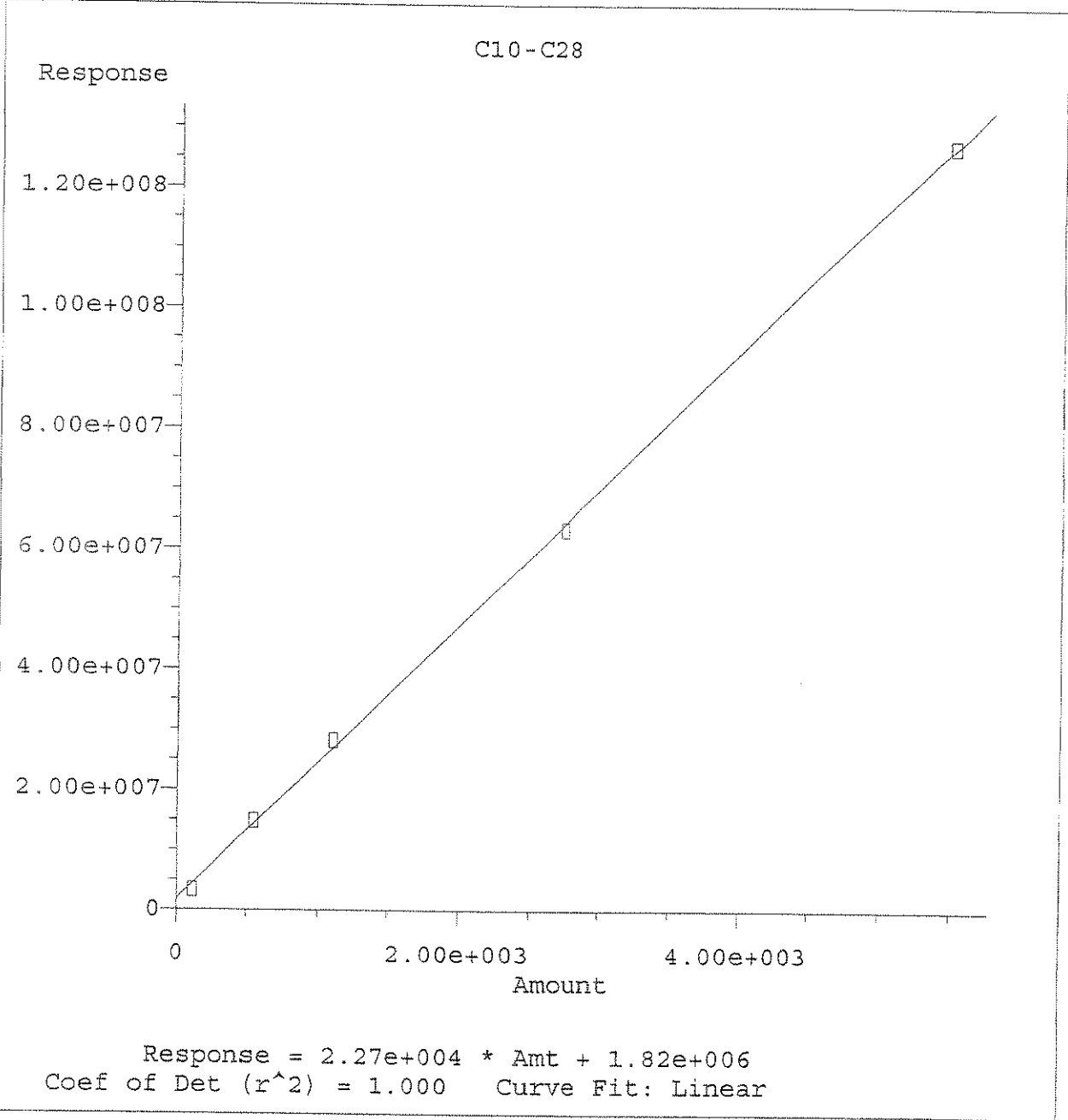


Method Name: Q:\SVOA\TPH\_GC2\METHODS\8100RBC.M  
Calibration Table Last Updated: Fri Jun 23 10:51:24 2006



Method Name: Q:\SVOA\TPH\_GC2\METHODS\8100RBC.M  
Calibration Table Last Updated: Fri Jun 23 10:51:24 2006





Method Name: Q:\SVOA\TPH\_GC2\METHODS\8100RBC.M  
Calibration Table Last Updated: Fri Jun 23 10:51:24 2006

## ANALYSIS SEQUENCE

BPG0267

Instrument: SVOAGC2

Calibration ID: ~~UNASSIGNED~~ 8700 FCL

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0267-CAL1	QC		1		6F15038		
BPG0267-CAL2	QC		2		6F15039		
BPG0267-CAL3	QC		3		6F15040		
BPG0267-CAL4	QC		4		6F15041		
BPG0267-CAL5	QC		5		6F15042		
BPG0267-SCV1	QC		6		6F15043		

Samples Loaded By \_\_\_\_\_ Date \_\_\_\_\_

834  
Data Processed By \_\_\_\_\_ Date \_\_\_\_\_

ESS LABORATORY  
GC2 Front RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/13/06	4	61306	4 TPH 50	8100FCL	New Stock	JCS
	5	5	TPH 10		✓ JCS on 50 6F1750 38 (CV1)	
	6	6	50		✓ 39 7	
	7	7	100		✓ 40 3	
	8	8	250		✓ 41 4	
	9	9	500		✓ 42 5	
	10	10	TPH 50SS		✓ 6F150 43 SCV1	
	11	11	BFW1213-RJK1		✓	
	12	12	-BS1		✓	
	13	13	-BSSD1		✓	
	14	14	0606106-07		✓	
	15	15	BFW1213-MS1		RR	
	16	16	BFW1213-MSD1		✓	
	17	17	solvent			
6/13/06	18	61306	18 TPH 50	8100FCL	✓	JCS
6/14/06	1	61406	1 TPH 50	8100FCL	✓	JCS
	2	2	0606156-02		✓	
	3	3	J <sub>12</sub> 121510C -03		✓	
	4	4	0606139-03		RR	
	5	5	0606106-01MS1		✓ Failed 2nd time running	
	6	6	0606139-02		RR	
	7	7	0606156-04		RR	
	8	8	-05		RR	
	9	9	-08		RR	
	10	10	-01			
	11	11	0606171-03			
	12	12	-02			
	13	13	-01			
	14	14	0606139-01		RR	
6/14/06	15	61406	15 solvent	8100FCL		JCS

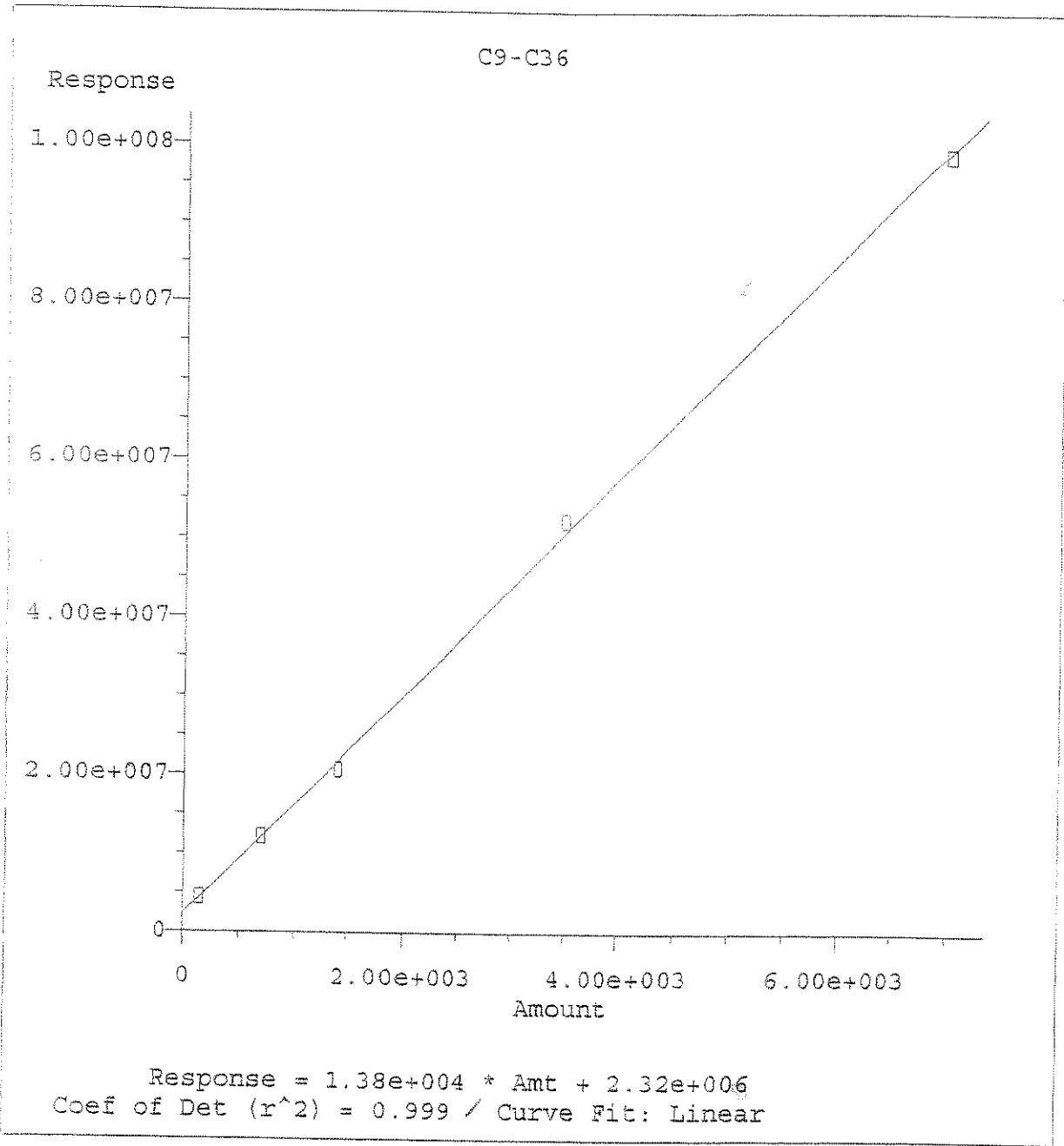
Response Factor Report GC2

Method : Q:\SVOA\TPH\_GC2\METHODS\8100FCL.M  
 Title : ELEMENT ID: 0502008  
 Last Update : Wed Jun 14 05:27:25 2006  
 Response via : Initial Calibration

Calibration Files

50 =006F0101.D 10 =005F0101.D 100 =007F0101.D  
 250 =008F0101.D 500 =009F0101.D

Compound		50	10	100	250	500	Avg	%RSD	
1) S	O-Terphenyl	16.7	14.3	16.0	17.5	17.2	16.4	E3	7.86
2) H	C9-C36	17.3	31.3	14.7	14.9	14.1	18.5	E3	39.47 <i>Line</i>
3) H	C10-C28	15.9	18.0	14.8	16.1	15.6	16.1	E3	7.18



Method Name: Q:\SVOA\TPH\_GC2\METHODS\8100FCL.M  
Calibration Table Last Updated: Wed Jun 14 05:27:25 2006

## ANALYSIS SEQUENCE

BPG0292

Instrument: SVOAGC2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0292-CCV1	QC		1		6F27002		
BF62406-BLK1	QC		2				
BF62406-BS1	QC		3				
BF62406-BSD1	QC		4				
BPG0292-CCV2	QC		5		6F27002		

Samples Loaded By

Date

Data Processed By

Date

ESS LABORATORY  
GC2 Rear RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS/DILUTION/STANDARD ID	ANALYST
6/26/04	55	55	0606361-01	8100RBC	✓	JCS
	56	56	0606335-03		Low CURT	
	57	57	-02		✓	
	58	58	Solvent			
6/26/04	59	59	TPH50	8100RBC		JCS
6/26/04	59	59	TPH50	8100RBC	✓ 627002	
	60		BPG6294-B101		✓	
	61		B51		✓	
	62		B301		✓	
	63		TPH50 0606374-13		✓ 627002 RBR	
	64		0606373-16			
	65		-16m1			
	66		-16m10			
	67		-07			
	68		-14			
	69		-18			
	70		-20		RBR	
	71		0606374-01			
	72		-03			
	73		-05			
	74		-07			
	75		-09			
	76		-11			
	77		-14			
	78		Solvent			
	79		TPH50		Low	
	79		TPH50		Low	

Control Number: 60.0003-0601A

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Quantitation Report

Data File : Q:\SVOA\TPH\_GC2\DATA\GC0606\062606\059R0201.D Vial: 59  
 Acq On : 26 Jun 06 03:40 PM Operator: [GC]A.MS  
 Sample : TPH50 Inst : GC2  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 26 17:10 19106

Method : Q:\SVOA\TPH\_GC2\METHODS\8100RBC.M  
 Title : ELEMENT ID: 0502007  
 Last Update : Fri Jun 23 10:51:24 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 1 ul  
 Signal Phase : RTX-5MS  
 Signal Info : 0.25

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
1) S O-Terphenyl	13.28	1344783	45.585 ppm
		Recovery =	45.59%
Target Compounds			
2) H C9-C36	13.63	20518060	767.380 ppm
3) H C10-C28	13.63	14219955	545.517 ppm



Quantitation Report

Data File : Q:\SVOA\TPH\_GC2\DATA\GC0606\062606A\079R0102.D Vial: 79  
Acq On : 26 Jun 06 09:34 PM Operator: [GC]TA.MS  
Sample : TPH 50 Inst : GC2  
Misc : Multiplr: 1.00  
Quant Time: Jun 27 5:29 19106

Method : Q:\SVOA\TPH\_GC2\METHODS\8100RBC.M  
Title : ELEMENT ID: 0502007  
Last Update : Fri Jun 23 10:51:24 2006  
Response via : Multiple Level Calibration

Volume Inj. : 1 ul  
Signal Phase : RTX-5MS  
Signal Info : 0.25

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
1) S O-Terphenyl	13.28	1344530	45.573 ppm
		Recovery =	45.57%
Target Compounds			
2) H C9-C36	13.63	18855849	691.536 ppm
3) H C10-C28	13.63	13869210	530.089 ppm

## ANALYSIS SEQUENCE

BPG0293

Instrument: SVOAGC2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0293-CCV1	QC		1		6F27002		
0606373-09	TPH: 8100M TPH/GCFID	A	2				MACTEC Engineering & Consulting, In
0606373-12	TPH: 8100M TPH/GCFID	A	3				MACTEC Engineering & Consulting, In
0606373-05	TPH: 8100M TPH/GCFID	A	4				MACTEC Engineering & Consulting, In
0606373-01	TPH: 8100M TPH/GCFID	A	5				MACTEC Engineering & Consulting, In
0606373-03	TPH: 8100M TPH/GCFID	A	6				MACTEC Engineering & Consulting, In
BPG0293-CCV2	QC		7		6F27002		

Samples Loaded By

Date

Data Prepared By

Date

ESS LABORATORY  
GC2 Rear RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS/DILUTION/STANDARD ID	ANALYST
6/28/06	51	62800 51	TPH50	8100RBC		JIS
	52	52	TPH50		✓ 6F27002	
	53	53	DL06374-05		✓	
	54	54	-07		✓	
	55	55	-15		✓	
	56	56	-09		✓	
	57	57	-03		✓	
	58	58	-01		✓	
	59	59	DL06374 -11		✓	
	60	60	DL06373 -09		✓	
	61	61	-12		✓ low surr	
	62	62	-05		✓	
	63	63	-01		✓	
	64	64	DL06373 -03		✓	
	65	65	Solvent			
6/28/06	66	62806 66	TPH50	8100RBC	✓ 6F27002	JCS
6/29/06	51	62900 51	TPH50	8100RBC	✓ 6G3001	JCS
	52	52	Fuel degradation		X	
	53	53	BFL62724-BIKI		RR	
	54	54	-BS1			
	55	55	-BS1			
	56	56	-BS2		RR	
	57	57	DL06383 -03		✓	
	58	58	DL06383 -01		✓	
	59	59	DL06383 -07		✓	
6/29/06	60	60	TPH50	8100RBC	✓ 6G3001	JCS
6/29/06	61	61	BFL62858-BIKI	8100RBC	✓ (6G) skipped <sup>JCS</sup> 6/30/06	JCS
6/29/06	62	62	-BS1	8100RBC	✓	JCS

Control Number: 60.0003-0601A

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Quantitation Report

Data File : Q:\SVOA\TPH\_GC2\DATA\GC0606\062806\052R0101.D Vial: 52  
 Acq On : 28 Jun 06 07:32 AM Operator: [GC]A.MS  
 Sample : TPH 50 Inst : GC2  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 28 8:09 19106

Method : Q:\SVOA\TPH\_GC2\METHODS\8100RBC.M  
 Title : ELEMENT ID: 0502007  
 Last Update : Fri Jun 23 10:51:24 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 1 ul  
 Signal Phase : RTX-5MS  
 Signal Info : 0.25

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
1) S O-Terphenyl	13.25	1388413	47.525 ppm
		Recovery =	47.53%
Target Compounds			
2) H C9-C36	13.63	18575793	678.758 ppm
3) H C10-C28	13.63	14310364	549.494 ppm

Quantitation Report

Data File : Q:\SVOA\TPH\_GC2\DATA\GC0606\062806\066R0101.D Vial: 66  
 Acq On : 28 Jun 06 04:25 PM Operator: [GC]A.MS  
 Sample : TPH50 Inst : GC2  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 28 17:45 19106

Method : Q:\SVOA\TPH\_GC2\METHODS\8100RBC.M  
 Title : ELEMENT ID: 0502007  
 Last Update : Fri Jun 23 10:51:24 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 1 ul  
 Signal Phase : RTX-5MS  
 Signal Info : 0.25

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
1) S O-Terphenyl	13.24f	1465730	50.964 ppm
		Recovery =	50.96%
Target Compounds			
2) H C9-C36	13.63	22079029	838.605 ppm
3) H C10-C28	13.63	15574523	605.100 ppm

## ANALYSIS SEQUENCE

BPG0294

Instrument: SVOAGC2

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0294-CCV1	QC		1		6F27002		
0606373-16	TPH: 8100M TPH/GCFID	A	2				MACTEC Engineering & Consulting, Inc
BF62406-MSI	QC		3				
BF62406-MSD1	QC		4				
0606373-07	TPH: 8100M TPH/GCFID	A	5				MACTEC Engineering & Consulting, Inc
0606373-14	TPH: 8100M TPH/GCFID	A	6				MACTEC Engineering & Consulting, Inc
0606373-18	TPH: 8100M TPH/GCFID	A	7				MACTEC Engineering & Consulting, Inc
0606373-20	TPH: 8100M TPH/GCFID	A	8				MACTEC Engineering & Consulting, Inc
BPG0294-CCV2	QC		9		6F27002		

Samples Loaded By

Date

Data Prepared By

Date

ESS LABORATORY  
GC2 Front RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/26/06	21	62606 21	0606324-05	8100FCL	✓	JLS
6/26/06	22	62606 22	solvent	8100FCL		JLS
6/26/06	23	62606 23	TPH 50	8100FCL	✓	JLS
6/27/06	1	62706 1	TPH 50	8100FCL	✓ 6F27002	JLS
	2	2	BF62621-BIKI		✓	
	3	3	-BSI		✓	
	4	4	-BSDI		✓	
	5	5	0606317-01		✓	
	6	6	0606374- <sup>13</sup> 4		✓ JLS 6/27/06	
	7	7	0606373-16		✓	seg = BPG0294
	8	8	-16MSI		✓	
	9	9	-16MSDI		✓	
	10	10	-07		✓	
	11	11	-14		✓	
	12	12	-18		✓	
	13	13	0606373-20		✓	
	14	14	solvent			
6/27/06	15	15	TPH 50	8100FCL	6F27002	JLS
	16	16	BF62625-BIKI		RR	
	17	17	BF62625-BSI			
	18	18	BF62625-BSDI			
	19	19	0606349-01		RR	
	20	20	-02		RR	
	21	21	-03		RR	
	22	22	-04		RR 20X	
	23	23	-05		RR 10X	
	24	24	0606349-06		RR 20X	
	25	25	BF62625-MSI		RR 20X	
	26	26	0606349-07		RR	
6/27/06	27	62706 27	0606349-08	8100FCL	RR	JLS

CONTROL NUMBER 60.0002-0601A

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Quantitation Report

Data File : Q:\SVOA\TPH\_GC2\DATA\GC0606\062706\001F0101.D Vial: 1  
 Acq On : 27 Jun 06 05:18 AM Operator: [GC]A.MS  
 Sample : TPH 50 Inst : GC2  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 27 5:51 19106

Method : Q:\SVOA\TPH\_GC2\METHODS\8100FCL.M  
 Title : ELEMENT ID: 0502008  
 Last Update : Fri Jul 21 06:41:51 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 1 ul  
 Signal Phase : RTX-5MS  
 Signal Info : 0.25

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
1) S O-Terphenyl	15.29	781738	47.793 ppm
		Recovery =	47.79%
Target Compounds			
2) H C9-C36	15.17	11534010	665.280 ppm
3) H C10-C28	15.17	8347634	519.242 ppm



Quantitation Report

Data File : Q:\SVOA\TPH\_GC2\DATA\GC0606\062706\015F0101.D Vial: 15  
 Acq On : 27 Jun 06 01:35 PM Operator: [GC]A.MS  
 Sample : TPH50 Inst : GC2  
 Misc : Multiplr: 1.00  
 Quant Time: Jun 27 15:00 19106

Method : Q:\SVOA\TPH\_GC2\METHODS\8100FCL.M  
 Title : ELEMENT ID: 0502008  
 Last Update : Fri Jul 21 06:41:51 2006  
 Response via : Multiple Level Calibration

Volume Inj. : 1 ul  
 Signal Phase : RTX-5MS  
 Signal Info : 0.25

Compound	R.T.	Response	Conc Units
-----			
System Monitoring Compounds			
1) S O-Terphenyl	15.28	914668	55.920 ppm
		Recovery =	55.92%
Target Compounds			
2) H C9-C36	15.17	12840344	759.620 ppm
3) H C10-C28	15.17	9569964	595.274 ppm

TPH  
Logbooks

# ESS Organic Preparation Logbook

Project #: 0606373 Surrogate ID# 0606374 Matrix Spike ID# 3001  
 Prep Date: 6/24/06 A 6F06052 D 6508034 Extraction Time: \_\_\_\_\_  
 Batch ID: IX0662406 B MA E MA F \_\_\_\_\_  
 Extraction Method: 354 C \_\_\_\_\_  
 Start: 1300 Finish: \_\_\_\_\_

## Split Extraction\*

\* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH<sub>2</sub>Cl<sub>2</sub>) is transferred as Volume 2.

ESS ID	Vol(ml)/Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Extract Vol (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Vol #1 (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Vol #2 (ml) Hex/CH <sub>2</sub> Cl <sub>2</sub>	Transfer Date	Bath Temp (C)	pH	Discard	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.	Analysis Performed
IX0662406-0	20.0	1	MA	1	1	MA	6/24/06	40	MA	MA		MA	MA	MA	PCB <input type="checkbox"/> BIN SVOA <input type="checkbox"/> SVOA <input type="checkbox"/> LL PAH <input type="checkbox"/> PEST <input type="checkbox"/> TPH/GC <input checked="" type="checkbox"/> BIS-2 <input type="checkbox"/> PAH <input type="checkbox"/>
-13	20.0	1	1	1	1	1									
-132	20.0	1	1	1	1	1									
0606373-01	20.1	1	MA	1	1	1									
-03	19.9	1	1	1	1	1									
-05	20.5	1	1	1	1	1									
-07	19.5	1	1	1	1	1									
-09	20.9	1	1	1	1	1									
-12	19.7	1	1	1	1	1									
-14	20.8	1	1	1	1	1									
-16	20.7	1	MA	1	1	1									
-16MS	19.8	1	1	1	1	1									
-16MSD	20.2	1	1	1	1	1									
-18	19.8	1	MA	1	1	1									
-20	19.6	1	1	1	1	1									
0606374-01	19.5	1	1	1	1	1									
-03	19.6	1	1	1	1	1									
-05	20.6	1	1	1	1	1									
-07	19.5	1	1	1	1	1									
-09	19.8	1	1	1	1	1									
-11	19.5	1	1	1	1	1									
-13	19.7	1	1	1	1	1									
-15	20.7	1	MA	1	1	MA	6/24/06	40	MA	MA		MA	MA	MA	TPH/GC

Acid Washed: Y (N) Florisil: Y (N) Silica Column/Carbon prep: Y (N)  
 H2SO4 ID# MA Cu ID# MA Lot# MA Method # (s): 800

Prepared By: JML/hj Glasswool: RL061406/F CH<sub>2</sub>Cl<sub>2</sub> lot # C0479 NaOH ID# MA  
0606373 Hexane lot# MA Na<sub>2</sub>SO<sub>4</sub> ID# RL060606A

\*\*Check off column if entire sample used and bottle discarded.

**DATA PACKAGE FOR  
GENERAL CHEMISTRY****PROJECT NAME: RI SITE****ESS LABORATORY, INC.  
185 FRANCES AVE  
CRANSTON, RI 02910  
4014617181****CHEMTECH PROJECT NO.  
ATTENTION:****X3430  
Jena Paola**

**CHEMTECH**

234 Sheffield Street Mountainside NJ 07092  
Tel. 908-789-8900

**COVER PAGE**

# COVER PAGE

OrderID: X3430

ProjectID: RI SITE  
CustomerName: ESS Laboratory, inc.

LAB SAMPLE NO.	CLIENT SAMPLE NO
X3430-01	0606373-01
X3430-02	0606373-03
X3430-03	0606373-05
X3430-04	0606373-07
X3430-05	0606373-09
X3430-06	0606373-12
X3430-07	0606373-14
X3430-08	0606373-16
X3430-09	0606373-18
X3430-10	0606373-20

I certify that the data package is in compliance with the terms and conditions of the contract both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature

Signature: Mildred V. Keys Name: Mildred V. Keys  
Date: 7/6/06 Title: QA/QC

# CHEMTECH

## QA/QC DELIVERABLES CHECKLIST

Project Number: X3430

THIS FORM HAS BEEN COMPLETED BY CHEMTECH LABORATORY AND ACCOMPANIES ALL DATA DELIVERABLES PACKAGES.

The following laboratory deliverables are included in this analytical report. Any deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non-Conformance Summary.

	Yes	NA
I. Report Cover Page, Laboratory Certification and Field Sample to Lab Sample ID Cross Reference	<input checked="" type="checkbox"/>	<input type="checkbox"/>
II. Table of Contents	<input checked="" type="checkbox"/>	<input type="checkbox"/>
III. Chain of Custody Documents	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IV. Methodology Summaries	<input checked="" type="checkbox"/>	<input type="checkbox"/>
V. Laboratory Chronicle and Hold Time Checks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VI. Non-Conformance Summary	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VII. Tabulated Analytical Results	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VIII. Initial and Continuing Calibration Information	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IX. Tune and Internal Standard Area Summaries (GC/MS)	<input type="checkbox"/>	<input checked="" type="checkbox"/>
X. Quality Control Summary Reports	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XI. Surrogate Recovery Summary	<input type="checkbox"/>	<input checked="" type="checkbox"/>
XII. Raw Data Chromatogram, Blank, Samples and QC when applicable	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XIII. Subcontract Data	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Zh. Bohani  
QA/QC Data Reviewer

07/03/06  
Date

110 Route 4  
Englewood, NJ 07631  
Phone: 201.568.7400 Fax: 201.567.3231

855

284 Sheffield Street  
Mountainside, NJ 07092  
Tel 908.789.8900 Fax: 908.789.8922

**TABLE OF CONTENTS**  
**PROJECT NUMBER: X3430RQ**

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**CHEMTECH**

284 Sheffield Street Mountainside NJ 07092  
Tel. 908-789-8900

**CHAIN OF  
CUSTODY  
RECORD**



Tracking Number 8576 2807 5443

Form ID No. 0215

Recipients Copy

1 From This portion can be removed for Recipient's records.

Date 6-22-00 FedEx Tracking Number 857628075443

Sender's Name ESS Laboratory Phone 401-467-4159

Company THIELSON ENGINEERING PACIFIC  
Address 195 FRANCIS AVE

City CRANSTON State RI ZIP 02914

2 Your Internal Billing Reference 7.3

3 To Recipient's Name Sample/Archieving Phone 908 784 8908

Company ChemTech

Recipient's Address 284 Shetfield Street  
We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address Mountain side State NJ ZIP 07092



8576 2807 5443

4a Express Package Service

**FedEx Priority Overnight**  
Next business morning. \* Friday shipments will be shipped on Monday unless SATURDAY Delivery is selected.

**FedEx Standard Overnight**  
Next business afternoon. \* Saturday Delivery NOT available.

**FedEx Express Saver**  
Third business day. \* Thursday and Friday Saturday Delivery NOT available.

**FedEx 2Day**  
Second business day. \* Thursday and Friday Saturday Delivery NOT available.

**FedEx 3Day Freight**  
Third business day. \* Saturday Delivery NOT available.

4b Express Freight Service

**FedEx 1Day Freight\***  
Next business day. \* Friday shipments will be shipped on Monday unless SATURDAY Delivery is selected.

**FedEx 2Day Freight**  
Second business day. \* Thursday and Friday Saturday Delivery NOT available.

**FedEx 3Day Freight**  
Third business day. \* Saturday Delivery NOT available.

5 Packaging

**FedEx Envelope\***

**FedEx Pak\***  
Includes Small Pak, FedEx Large Pak, and FedEx Surety Pak.

6 Special Handling

**HOLD Saturday at FedEx Location**  
Available ONLY for FedEx Priority Overnight and FedEx 2Day to select recipients.

**HOLD Weekday at FedEx Location**  
Not available for FedEx Standard Overnight, Express Saver, or FedEx 2Day Freight.

7 Payment

**Sender** Acct. No. in Section 8

**Recipient** Enter FedEx Acct. No. or Credit Card No. below.

**Third Party** Enter Acct. No. in Section 8

**Cash/Check** Obtain Receipt

8 NEW Residential Delivery Signature Options

**No Signature Required**  
Package will be left without obtaining a signature for delivery.

**Direct Signature**  
Anyone at recipient's address may sign for delivery. *Fee applies.*

**Indirect Signature**  
If no one is available at recipient's address, anyone at a neighboring address may sign for delivery. *Fee applies.*

519

Rev. Date 11/05/99 #15827P ©1994-2005 FedEx-PRINTED IN U.S.A. 335

**Laboratory Certification**

<b>State</b>	<b>License No.</b>
New Jersey	20012
New York	11376
Arizona	AZ0653
Connecticut	PH-0649
Florida	E87935
Kansas	E-10355
Maryland	296
Massachusetts	M-NJ503
Maine	NJ0503
North Carolina	630
Oklahoma	9705
Pennsylvania	68-548
Rhode Island	LAO00259

QA Control Code: A2070148

**DATA REPORTING QUALIFIERS- INORGANIC**

For reporting results, the following " Results Qualifiers" are used:

- J If the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
- U If the analyte was analyzed for, but not detected.
- E The reported value is estimated because of the presence of interference
- M Duplicate injection precision not met.
- N Spiked sample recovery not within control limits.
- S The reported value was determined by the Method of Standard Addition (MSA).
- W Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while absorbance is less than 50% of spike absorbance.
- \* Duplicate analysis not within control limits.
- + Correlation coefficient for the MSA is less than 0.995.
- \*\*\* Entering "S", "W" or "+" is mutually exclusive. NO combination of these qualifiers can appear in the same field for an analyte.
- D The reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
- M Method qualifiers  
"P" for ICP instrument  
"A" for Flame AA  
"PM" for ICP when Microwave Digestion is used  
"AM" for flame AA when Microwave Digestion is used  
"FM" for furnace AA when Microwave Digestion is used  
"CV" for Manual Cold Vapor AA  
"AV" for automated Cold Vapor AA  
"CA" for MIDI-Distillation Spectrophotometric  
"AS" for Semi -Automated Spectrophotometric  
"C" for Manual Spectrophotometric  
"T" for Titrimetric  
"NR" for analyte not required to be analyzed
- OR Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: X3430

Completed

For thorough review, the report must have the following:

GENERAL:

- Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page)
- Check chain-of-custody for proper relinquish/return of samples
- Is the chain of custody signed and complete
- Check internal chain-of-custody for proper relinquish/return of samples /sample extracts
- Collect information for each project id from server. Were all requirements followed

COVER PAGE:

- Do numbers of samples correspond to the number of samples in the Chain of Custody and on login page
- Do lab numbers and client Ids on cover page agree with the Chain of Custody

CHAIN OF CUSTODY:

- Do requested analyses on Chain of Custody agree with form I results
- Do requested analyses on Chain of Custody agree with the log-in page
- Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody
- Were the samples received within hold time
- Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

ANALYTICAL:

- Was method requirement followed?
- Was client requirement followed?
- Does the case narrative summarize all QC failure?

1<sup>st</sup> Level QA Review Signature: Zh. Rohani Date: 07/06/06

2<sup>nd</sup> Level QA Review Signature: Mildred Reyes Date: 7/6/06

**CHEMTECH**

284 Sheffield Street Mountainside, NJ 07092  
Tel: 908-789-8900

**METHODOLOGY  
REVIEW  
&  
LABORATORY  
CHRONICLE**

# CHEMTECH

## Lab Chronicle

Order ID: X3430      Order Date: 6/23/2006 10:18:01 AM  
Client: ESS Laboratory, inc.      Project: RI SITE  
Contact: Jena Paola      Location: O53

Lab ID	Client ID	Matrix	Test	Method	Sample Date	PrepDate	AnalDate	Received
X3430-01	0606373-01	SOIL	TOC	9060	06/21/06	06/26/06	06/26/06	06/23/06
X3430-02	0606373-03	SOIL	TOC	9060	06/21/06	06/26/06	06/26/06	06/23/06
X3430-03	0606373-05	SOIL	TOC	9060	06/21/06	06/26/06	06/26/06	06/23/06
X3430-04	0606373-07	SOIL	TOC	9060	06/21/06	06/26/06	06/26/06	06/23/06
X3430-05	0606373-09	SOIL	TOC	9060	06/21/06	06/26/06	06/26/06	06/23/06
X3430-06	0606373-12	SOIL	TOC	9060	06/22/06	06/26/06	06/26/06	06/23/06
X3430-07	0606373-14	SOIL	TOC	9060	06/22/06	06/26/06	06/26/06	06/23/06
X3430-08	0606373-16	SOIL	TOC	9060	06/22/06	06/26/06	06/26/06	06/23/06
X3430-09	0606373-18	SOIL	TOC	9060	06/22/06	06/26/06	06/26/06	06/23/06
X3430-10	0606373-20	SOIL	TOC	9060	06/22/06	06/26/06	06/26/06	06/23/06



**CHEMTECH**

284 Sheffield Street Mountainside NJ 07092  
Tel. 908-789-8900

**CONFORMANCE/  
NON-  
CONFORMANCE  
SUMMARY**

GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: X3430

MATRIX: Solid

METHOD: 9060

- |   | NA | NO | YES |
|---|----|----|-----|
| 1. Blank Contamination - If yes, list compounds and concentrations in each blank:   |    | ✓  |     |
| 2. Matrix Spike Duplicate Recoveries Met Criteria<br>If not met, list those compounds and their recoveries which fall outside the acceptable range.   |    |    | ✓   |
| 3. Sample Duplicate Analysis Met QC Criteria<br>If not met, list those compounds and their recoveries which fall outside the acceptable range.<br>The Duplicate analysis met criteria for all samples except for TOC. |    | ✓  |     |
| 4. Digestion Holding Time Met<br>If not met, list number of days exceeded for each sample:  |    |    | ✓   |

ADDITIONAL COMMENTS:

Zh. Rohani  
QA REVIEW

07/06/06  
Date

**TABULATED ANALYTICAL RESULTS  
GENERAL CHEMISTRY**

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

---

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3101  
Date Sampled: 06/21/06 10:20  
Percent Solids: 24

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-01  
Sample Matrix: Soil

### Classical Chemistry

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>Analyst</u>	<u>Analyzed</u>
Total Organic Carbon	46000	mg/kg	1200	§	§	06/26/06



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

### Report of Analysis

Client:	ESS Laboratory, inc.	Date Collected:	6/21/2006
Project:	RI SITE	Date Received:	6/23/2006
Client Sample ID:	0606373-01	SDG No.:	X3430
Lab Sample ID:	X3430-01	Matrix:	SOIL
% Solids:	20.60		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
TOC	46000		1200	mg/Kg	1	6/26/2006	9060 TOC SOLID

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

---

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3001  
Date Sampled: 06/21/06 13:30  
Percent Solids: 80

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-03  
Sample Matrix: Soil

### Classical Chemistry

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>Analyst</u>	<u>Analyzed</u>
Total Organic Carbon	6700	mg/kg	320	§	§	06/26/06



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### Report of Analysis

Client:	ESS Laboratory, inc.	Date Collected:	6/21/2006
Project:	RI SITE	Date Received:	6/23/2006
Client Sample ID:	0606373-03	SDG No.:	X3430
Lab Sample ID:	X3430-02	Matrix:	SOIL
% Solids:	77.30		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
TOC	6700		320	mg/Kg	1	6/26/2006	9060 TOC SOLID

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

---

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2801  
Date Sampled: 06/21/06 14:02  
Percent Solids: 27

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-05  
Sample Matrix: Soil

### Classical Chemistry

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>Analyst</u>	<u>Analyzed</u>
Total Organic Carbon	41000	mg/kg	1000	§	§	06/26/06





284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

### Report of Analysis

Client:	ESS Laboratory, inc.	Date Collected:	6/21/2006
Project:	RI SITE	Date Received:	6/23/2006
Client Sample ID:	0606373-05	SDG No.:	X3430
Lab Sample ID:	X3430-03	Matrix:	SOIL
% Solids:	24.80		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
TOC	41000		1000	mg/Kg	1	6/26/2006	9060 TOC SOLID

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

---

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2901  
Date Sampled: 06/21/06 14:42  
Percent Solids: 25

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-07  
Sample Matrix: Soil

### Classical Chemistry

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>Analyst</u>	<u>Analyzed</u>
Total Organic Carbon	45000	mg/kg	1100	§	§	06/26/06



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

### Report of Analysis

Client:	ESS Laboratory, inc.	Date Collected:	6/21/2006
Project:	RI SITE	Date Received:	6/23/2006
Client Sample ID:	0606373-07	SDG No.:	X3430
Lab Sample ID:	X3430-04	Matrix:	SOIL
% Solids:	23.80		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
TOC	45000		1100	mg/Kg	1	6/26/2006	9060 TOC SOLID

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

---

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3201  
Date Sampled: 06/21/06 15:22  
Percent Solids: 72

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-09  
Sample Matrix: Soil

### Classical Chemistry

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>Analyst</u>	<u>Analyzed</u>
Total Organic Carbon	7000	mg/kg	350	§	§	06/26/06



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

### Report of Analysis

Client: ESS Laboratory, inc.

Date Collected: 6/21/2006

Project: RI SITE

Date Received: 6/23/2006

Client Sample ID: 0606373-09

SDG No.: X3430

Lab Sample ID: X3430-05

Matrix: SOIL

% Solids: 72.30

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
TOC	7000		350	mg/Kg	1	6/26/2006	9060 TOC SOLID

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

---

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2001  
Date Sampled: 06/22/06 08:40  
Percent Solids: 43

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-12  
Sample Matrix: Soil

### Classical Chemistry

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>Analyst</u>	<u>Analyzed</u>
Total Organic Carbon	26000	mg/kg	610	§	§	06/26/06



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

### Report of Analysis

Client:	ESS Laboratory, inc.	Date Collected:	6/22/2006
Project:	RI SITE	Date Received:	6/23/2006
Client Sample ID:	0606373-12	SDG No.:	X3430
Lab Sample ID:	X3430-06	Matrix:	SOIL
% Solids:	40.90		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
TOC	26000		610	mg/Kg	1	6/26/2006	9060 TOC SOLID

# ESS Laboratory

Division of Thielsch Engineering, Inc.

---

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1701  
Date Sampled: 06/22/06 09:15  
Percent Solids: 71

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-14  
Sample Matrix: Soil

### Classical Chemistry

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>Analyst</u>	<u>Analyzed</u>
Total Organic Carbon	5800	mg/kg	380	§	§	06/26/06





284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

### Report of Analysis

Client:	ESS Laboratory, inc.	Date Collected:	6/22/2006
Project:	RI SITE	Date Received:	6/23/2006
Client Sample ID:	0606373-14	SDG No.:	X3430
Lab Sample ID:	X3430-07	Matrix:	SOIL
% Solids:	66.60		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
TOC	5800		380	mg/Kg	1	6/26/2006	9060 TOC SOLID

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1001  
Date Sampled: 06/22/06 09:45  
Percent Solids: 85

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-16  
Sample Matrix: Soil

### Classical Chemistry

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>Analyst</u>	<u>Analyzed</u>
Total Organic Carbon	780	mg/kg	300	§	§	06/26/06



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

### Report of Analysis

Client:	ESS Laboratory, inc.	Date Collected:	6/22/2006
Project:	RI SITE	Date Received:	6/23/2006
Client Sample ID:	0606373-16	SDG No.:	X3430
Lab Sample ID:	X3430-08	Matrix:	SOIL
% Solids:	84.20		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
TOC	780		300	mg/Kg	1	6/26/2006	9060 TOC SOLID

# ESS Laboratory

Division of Thielsch Engineering, Inc.

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## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1101  
Date Sampled: 06/22/06 10:15  
Percent Solids: 15

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-18  
Sample Matrix: Soil

### Classical Chemistry

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>Analyst</u>	<u>Analyzed</u>
Total Organic Carbon	65000	mg/kg	1700	§	§	06/26/06



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

### Report of Analysis

Client:	ESS Laboratory, inc.	Date Collected:	6/22/2006
Project:	RI SITE	Date Received:	6/23/2006
Client Sample ID:	0606373-18	SDG No.:	X3430
Lab Sample ID:	X3430-09	Matrix:	SOIL
% Solids:	14.70		

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
TOC	65000		1700	mg/Kg	1	6/26/2006	9060 TOC SOLID

# ESS Laboratory

Division of Thielsch Engineering, Inc.

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1201  
Date Sampled: 06/22/06 11:01  
Percent Solids: 45

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-20  
Sample Matrix: Soil

### Classical Chemistry

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>Analyst</u>	<u>Analyzed</u>
Total Organic Carbon	2300	mg/kg	310	§	§	06/26/06



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908-789-8900 Fax: 908-789-8922

### Report of Analysis

Client: ESS Laboratory, inc.

Date Collected: 6/22/2006

Project: RI SITE

Date Received: 6/23/2006

Client Sample ID: 0606373-20

SDG No.: X3430

Lab Sample ID: X3430-10

Matrix: SOIL

% Solids: 81.30

Analyte	Result	Qualifier	RL	Units	DF	Date Analyzed	Method
TOC	2300		310	mg/Kg	1	6/26/2006	9060 TOC SOLID

**QUALITY CONTROL SUMMARY  
REPORTS  
GENERAL CHEMISTRY**



**Method Detection Limits**

Client: ESS Laboratory, inc.

SDG No.: X3430

Project:

Analyte	Units	MDL	RDL
Method: 9060 TOC SOLID		MDL Date: 1/15/2006	
Matrix Category: SOLIDS			
TOC	mg/Kg	250.00	250.00

**Initial and Continuing Calibration Verification**

Client: ESS Laboratory, inc.

SDG No.: X3430

Project:

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TOC	mg/L	2062.0	2000.0	103.0	80-120	6/2/2006
Sample ID: CCV1 TOC	mg/L	2049.0	2000.0	102.5	80-120	6/26/2006
Sample ID: CCV2 TOC	mg/L	1914.0	2000.0	95.7	80-120	6/26/2006

**Initial and Continuing Calibration Blank Summary**

Client: ESS Laboratory, inc.

SDG No.: X3430

Project:

Analyte	Units	Result	Acceptance Limits	Conc Qual	RDL	Analysis Date
<b>Sample ID: ICB1</b>						
TOC	mg/L	< 0.40	+/-0.40	U	0.40	6/2/2006
<b>Sample ID: CCBI</b>						
TOC	mg/L	< 0.40	+/-0.40	U	0.40	6/26/2006
<b>Sample ID: CCB2</b>						
TOC	mg/L	< 0.40	+/-0.40	U	0.40	6/26/2006

**Preparation Blank Summary**

<b>Client:</b> ESS Laboratory, inc.	<b>SDG No.:</b> X3430
<b>Project:</b>	

Analyte	Units	Result	Acceptance Limits	Conc Qual	RDL	Analysis Date
<b>Sample ID: LB10006</b>						
TOC	mg/Kg	< 250.00	+/-250.00	U	250.00	6/26/2006



### Matrix Spike Summary

<b>Client:</b> ESS Laboratory, inc.	<b>SDG No.:</b> X3430
<b>Project:</b>	<b>Sample ID:</b> X3430-02
<b>Client ID:</b> 0606373-03S	<b>Percent Solids for Spike Sample:</b> 77.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	Dilution Factor	% Rec	Qual	Date Analyzed
TOC	mg/Kg	75-125	11333.8		8710.0		2587.3	1	101.4		6/26/2006

### Duplicate Sample Summary

Client: ESS Laboratory, inc.

SDG No.: X3430

Project:

Sample ID: X3430-02

Client ID: 0606373-03D

Percent Solids for Spike Sample: 77.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	Dilution Factor	RPD/ AD	Qual	Date Analyzed
TOC	mg/Kg	+/-20	8710.0		6666.2		1	26.6		6/26/2006

**CHEMTECH**

284 Sheffield Street Mountainside, NJ 07092  
Tel . (908) 789-8900 Fax (908) 789-8922

**END OF ANALYTICAL RESULTS**

**DETERMINATION OF PCDD/PCDF LEVELS**

**Prepared for:**  
**ESS Laboratory**  
**Attn: Jena Paola**  
**185 Frances Avenue**  
**Cranston, RI 02910-2211**



This report contains 25 pages.

The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

**Project: Chemical Analysis**

**Client Project Number: 0606373**

**REPORT OF LABORATORY ANALYSIS**

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**REPORT OF: CHEMICAL ANALYSES**

**PROJECT:** PCDD/PCDF ANALYSES

**DATE:** July 12, 2006

**ISSUED TO:** ESS Laboratory  
Attn: Jena Paola  
185 Frances Avenue  
Cranston, RI 02910-2211

**REPORT NO:** 06-1034231

**INTRODUCTION**

This report presents the results from the analyses performed on ten samples submitted by a representative of ESS Laboratory. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290.

**SAMPLE IDENTIFICATION**

<u>Client ID</u>	<u>Sample Type</u>	<u>Date Received</u>	<u>PACE ID</u>
0606373-01	Solid	06/23/06	1034231001
0606373-03	Solid	06/23/06	1034231002
0606373-05	Solid	06/23/06	1034231003
0606373-07	Solid	06/23/06	1034231004
0606373-09	Solid	06/23/06	1034231005
0606373-12	Solid	06/23/06	1034231006
0606373-14	Solid	06/23/06	1034231007
0606373-16	Solid	06/23/06	1034231008
0606373-18	Solid	06/23/06	1034231009
0606373-20	Solid	06/23/06	1034231010

**REPORT OF LABORATORY ANALYSIS**

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**REPORT OF: CHEMICAL ANALYSES**

**PROJECT: PCDD/PCDF ANALYSES**

**DATE: July 12, 2006**

**PAGE: 2**

**REPORT NO: 06-1034231**

**RESULTS**

The results are included in the following:

Appendix A – Chain of Custody Documentation

Appendix B – PCDD/PCDF Results

**DISCUSSION**

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 34-142%. With the exception of seven values, which were flagged "P" on the sample results tables; the labeled standard recoveries obtained for the samples were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In some cases, interfering substances impacted the determinations of PCDD or PCDF congeners. The affected values were flagged "I" where incorrect isotope ratios were obtained, or "E" where polychlorinated diphenyl ethers were present.

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results show the blanks, with the exception of a trace level of OCDD, to be free of PCDDs and PCDFs at the reporting limits. The OCDD was below the calibration range of the method. One sample contained a similar level to the corresponding blank and was flagged "B" on the results table. This value may be, at least partially, attributed to the background. It should be noted that levels less than ten times the background are not generally considered to be statistically different from the background.

Laboratory and matrix spike samples were also prepared with the samples using clean sand or sample material that had been fortified with native standards. The results show that the spiked native compounds were recovered at 81-108% in the lab spikes and at 57-113% in the background subtracted matrix spikes. Relative percent differences in the matrix spikes ranged from 1.0-11%. These results indicate high degrees of accuracy and precision for these determinations.

**REPORT OF LABORATORY ANALYSIS**

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**REPORT OF: CHEMICAL ANALYSES**

**PROJECT: PCDD/PCDF ANALYSES**

**DATE: July 12, 2006**

**PAGE: 3**

**REPORT NO: 06-1034231**

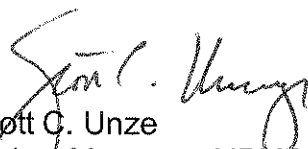
**DISCUSSION (Cont.)**

The responses obtained for several compounds in ending calibration standards F60629A\_16 and F60708A\_17 were outside the target range for this method. As specified in the method, the averages of the daily response factors for these compounds were used in the calculations for the samples from these run-shifts. It should be noted that the accuracy of the native congener determinations was not affected by these deviations.

**REMARKS**

The sample extracts will be retained for a period of 15 days from the date of this report and then discarded unless other arrangements are made. The raw mass spectral data will be archived on magnetic tape for a period of not less than one year. Questions regarding the data contained in this report may be directed to the author at the number provided below.

**Pace Analytical Services, Inc.**



Scott C. Unze  
Project Manager, HRMS  
(612) 607-6383

**REPORT OF LABORATORY ANALYSIS**

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**TABLE 1. 2,3,7,8-TCDD Equivalency Factors (TEFs) for the Polychlorinated Dibenzo-p-dioxins and Dibenzofurans**

Number	Compound(s)	TEF
1	2,3,7,8-TCDD	1.00
2	1,2,3,7,8-PeCDD	0.50
3	1,2,3,6,7,8-HxCDD	0.1
4	1,2,3,7,8,9-HxCDD	0.1
5	1,2,3,4,7,8-HxCDD	0.1
6	1,2,3,4,6,7,8-HpCDD	0.01
7	OCDD	0.001
8	* Total - TCDD	0.0
9	* Total - PeCDD	0.0
10	* Total - HxCDD	0.0
11	* Total - HpCDD	0.0
12	2,3,7,8-TCDF	0.10
13	1,2,3,7,8-PeCDF	0.05
14	2,3,4,7,8-PeCDF	0.5
15	1,2,3,6,7,8-HxCDF	0.1
16	1,2,3,7,8,9-HxCDF	0.1
17	1,2,3,4,7,8-HxCDF	0.1
18	2,3,4,6,7,8-HxCDF	0.1
19	1,2,3,4,6,7,8-HpCDF	0.01
20	1,2,3,4,7,8,9-HpCDF	0.01
21	OCDF	0.001
22	* Total - TCDF	0.0
23	* Total - PeCDF	0.0
24	* Total - HxCDF	0.0
25	* Total - HpCDF	0.0

\*Excluding the 2,3,7,8-substituted congeners.

Reference: International Toxic Equivalence

**REPORT OF LABORATORY ANALYSIS**

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## APPENDIX A

### REPORT OF LABORATORY ANALYSIS

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**ESS Laboratory** *face*  
 Division of *Thielsch Engineering, Inc.*  
 185 Frances Avenue, Cranston, RI 02910-2211  
 Tel. (401) 461-7181 Fax (401) 461-4486  
 www.esslaboratory.com

# CHAIN OF CUSTODY

1034231  
 Page \_\_\_\_\_ of \_\_\_\_\_

Turn Time \_\_\_\_\_ Standard \_\_\_\_\_ Other \_\_\_\_\_  
 If faster than 5 days, prior approval by laboratory is required # \_\_\_\_\_  
 State where samples were collected from:  
 MA RI CT NH NJ NY ME Other \_\_\_\_\_  
 Is this project for any of the following: USACE Other \_\_\_\_\_  
 MA-MCP Navy \_\_\_\_\_

Reporting Limits \_\_\_\_\_ ESS LAB PROJECT ID \_\_\_\_\_  
 Electronic Deliverable Yes \_\_\_\_\_ No \_\_\_\_\_  
 Format: Excel \_\_\_\_\_ Access \_\_\_\_\_ PDF \_\_\_\_\_ Other \_\_\_\_\_

ESS LAB Sample#	Date	Collection Time	COMP	ORAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis		
902	6-21-06	1020	X	S	0606373-01	1	6					
	6-21-06	1330	X		-03						1034231/001	
	6-21-06	1402	X		-05						002	
	6-21-06	1442	X		-07						003	
	6-21-06	1522	X		-09						004	
	6-22-06	0840	X		-12						005	
			0915	X		-14						006
			0945	X		-16						007
			1015	X		-18						008
		6-22-06	1101	X	S	0606373-20	1	6				010

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: (S-Sol) D-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters  
 Cooler Present Yes \_\_\_ No \_\_\_ Internal Use Only Yes \_\_\_ No \_\_\_  
 Seals Intact Yes \_\_\_ No \_\_\_ No NA: \_\_\_ [ ] Pickup  
 Cooler Temp: \_\_\_ [ ] Technicians: \_\_\_\_\_  
 Relinquished by: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Relinquished by: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_

\*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A  
 Please fax all changes to Chain of Custody in writing.  
 1 (White) Lab Copy 2 (Yellow) Client Receipt

## APPENDIX B

### REPORT OF LABORATORY ANALYSIS

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## Method 8290 Blank Analysis Results

Client - ESS Laboratory

Lab Sample ID	BLANK-10052	Matrix	Solid
Filename	U60702A_03	Dilution	NA
Total Amount Extracted	10.2 g	Extracted	06/27/2006
ICAL Date	07/01/2006	Analyzed	07/02/2006 10:28
CCal Filename(s)	U60701A_23 & U60702A_14	Injected By	BAL

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.200	2,3,7,8-TCDF-13C	2.00	68
Total TCDF	ND	----	0.200	2,3,7,8-TCDD-13C	2.00	63
				1,2,3,7,8-PeCDF-13C	2.00	68
2,3,7,8-TCDD	ND	----	0.200	2,3,4,7,8-PeCDF-13C	2.00	73
Total TCDD	ND	----	0.200	1,2,3,7,8-PeCDD-13C	2.00	79
				1,2,3,4,7,8-HxCDF-13C	2.00	84
1,2,3,7,8-PeCDF	ND	----	0.980	1,2,3,6,7,8-HxCDF-13C	2.00	74
2,3,4,7,8-PeCDF	ND	----	0.980	2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF	ND	----	0.980	1,2,3,7,8,9-HxCDF-13C	2.00	77
				1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	ND	----	0.980	1,2,3,6,7,8-HxCDD-13C	2.00	63
Total PeCDD	ND	----	0.980	1,2,3,4,6,7,8-HpCDF-13C	2.00	68
				1,2,3,4,7,8,9-HpCDF-13C	2.00	61
1,2,3,4,7,8-HxCDF	ND	----	0.980	1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	ND	----	0.980	OCDD-13C	4.00	68
2,3,4,6,7,8-HxCDF	ND	----	0.980			
1,2,3,7,8,9-HxCDF	ND	----	0.980	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.980	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.980	2,3,7,8-TCDD-37Cl4	0.20	60
1,2,3,6,7,8-HxCDD	ND	----	0.980			
1,2,3,7,8,9-HxCDD	ND	----	0.980			
Total HxCDD	ND	----	0.980			
1,2,3,4,6,7,8-HpCDF	ND	----	0.980	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.980	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	----	0.980	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.980			
Total HpCDD	ND	----	0.980			
OCDF	ND	----	2.000			
OCDD	ND	----	2.000			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).  
EMPC = Estimated Maximum Possible Concentration  
LRL = Lower Reporting Limit  
J = Concentration detected is below the calibration range  
P = Recovery outside of target range  
A = Detection Limit based on signal-to-noise measurement

I = Interference  
E = PCDE Interference  
ND = Not Detected  
NA = Not Applicable  
NC = Not Calculated  
\* = See Discussion

Report No..... 1034231

## REPORT OF LABORATORY ANALYSIS



**Method 8290 Blank Analysis Results**

Client - ESS Laboratory

Lab Sample ID	BLANK-10057	Matrix	Solid
Filename	F60630A_04	Dilution	NA
Total Amount Extracted	10.2 g	Extracted	06/28/2006
ICAL Date	05/31/2006	Analyzed	06/30/2006 11:34
CCal Filename(s)	F60630A_01 & F60630A_13	Injected By	CVS

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.200	2,3,7,8-TCDF-13C	2.00	76
Total TCDF	ND	----	0.200	2,3,7,8-TCDD-13C	2.00	76
				1,2,3,7,8-PeCDF-13C	2.00	73
2,3,7,8-TCDD	ND	----	0.200	2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	ND	----	0.200	1,2,3,7,8-PeCDD-13C	2.00	103
				1,2,3,4,7,8-HxCDF-13C	2.00	75
1,2,3,7,8-PeCDF	ND	----	0.980	1,2,3,6,7,8-HxCDF-13C	2.00	70
2,3,4,7,8-PeCDF	ND	----	0.980	2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF	ND	----	0.980	1,2,3,7,8,9-HxCDF-13C	2.00	75
				1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	----	0.980	1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	----	0.980	1,2,3,4,6,7,8-HpCDF-13C	2.00	70
				1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	ND	----	0.980	1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	ND	----	0.980	OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	ND	----	0.980			
1,2,3,7,8,9-HxCDF	ND	----	0.980	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.980	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.980	2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	----	0.980			
1,2,3,7,8,9-HxCDD	ND	----	0.980			
Total HxCDD	ND	----	0.980			
1,2,3,4,6,7,8-HpCDF	ND	----	0.980	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.980	Equivalence: 0.0056 ng/Kg		
Total HpCDF	ND	----	0.980	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.980			
Total HpCDD	ND	----	0.980			
OCDF	ND	----	2.000			
OCDD	5.6	----	2.000 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).  
EMPC = Estimated Maximum Possible Concentration  
LRL = Lower Reporting Limit  
J = Concentration detected is below the calibration range  
P = Recovery outside of target range  
A = Detection Limit based on signal-to-noise measurement

I = Interference  
E = PCDE Interference  
ND = Not Detected  
NA = Not Applicable  
NC = Not Calculated  
\* = See Discussion

Report No.....1034231

**REPORT OF LABORATORY ANALYSIS**

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

---

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3101  
Date Sampled: 06/21/06 10:20

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-01  
Sample Matrix: Soil

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Dioxin	See Attached								



## Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606373-01		
Lab Sample ID	1034231001		
Filename	F60629A_13		
Injected By	BAL		
Total Amount Extracted	20.9 g	Matrix	Solid
% Moisture	71.2	Dilution	10
Dry Weight Extracted	6.02 g	Collected	06/21/2006
ICAL Date	05/31/2006	Received	06/23/2006
CCal Filename(s)	F60629A_01 & F60629A_16	Extracted	06/27/2006
Method Blank ID	BLANK-10052	Analyzed	06/30/2006 00:11

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	76	----	27.0	A	2,3,7,8-TCDF-13C	2.00	66
Total TCDF	15000	----	3.3		2,3,7,8-TCDD-13C	2.00	70
					1,2,3,7,8-PeCDF-13C	2.00	60
2,3,7,8-TCDD	33	----	9.7	A	2,3,4,7,8-PeCDF-13C	2.00	68
Total TCDD	640	----	3.3		1,2,3,7,8-PeCDD-13C	2.00	84
					1,2,3,4,7,8-HxCDF-13C	2.00	89
1,2,3,7,8-PeCDF	230	----	20.0	AN2	1,2,3,6,7,8-HxCDF-13C	2.00	45
2,3,4,7,8-PeCDF	1600	----	32.0	A	2,3,4,6,7,8-HxCDF-13C	2.00	52
Total PeCDF	40000	----	17.0		1,2,3,7,8,9-HxCDF-13C	2.00	53
					1,2,3,4,7,8-HxCDD-13C	2.00	63
1,2,3,7,8-PeCDD	120	----	17.0		1,2,3,6,7,8-HxCDD-13C	2.00	49
Total PeCDD	1600	----	17.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	50
					1,2,3,4,7,8,9-HpCDF-13C	2.00	39
1,2,3,4,7,8-HxCDF	320	----	17.0		1,2,3,4,6,7,8-HpCDD-13C	2.00	53
1,2,3,6,7,8-HxCDF	750	----	17.0		OCDD-13C	4.00	38
2,3,4,6,7,8-HxCDF	640	----	17.0				
1,2,3,7,8,9-HxCDF	420	----	17.0		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	25000	----	17.0		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	55	----	17.0		2,3,7,8-TCDD-37Cl4	0.20	75
1,2,3,6,7,8-HxCDD	150	----	17.0				
1,2,3,7,8,9-HxCDD	78	----	17.0				
Total HxCDD	2000	----	17.0				
1,2,3,4,6,7,8-HpCDF	710	----	17.0		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	170	----	17.0		Equivalence: 1100 ng/Kg		
Total HpCDF	2000	----	17.0		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	430	----	17.0				
Total HpCDD	940	----	17.0				
OCDF	190	----	33.0				
OCDD	1600	----	33.0				

### Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)  
EMPC = Estimated Maximum Possible Concentration  
A = Detection Limit based on signal-to-noise measurement  
J = Concentration detected is below the calibration range  
B = Less than 10 times higher than method blank level  
P = Recovery outside of target range  
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit  
I = Interference  
E = PCDE Interference  
S = Saturated signal  
ND = Not Detected  
NA = Not Applicable  
NC = Not Calculated  
\* = See Discussion

Report No.....1034231

## REPORT OF LABORATORY ANALYSIS

# ESS Laboratory

Division of Thielsch Engineering, Inc.

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## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3001  
Date Sampled: 06/21/06 13:30

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-03  
Sample Matrix: Soil

### Dioxins

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Dioxin	See Attached								



**Method 8290 Analysis Results**

Client - ESS Laboratory

Client's Sample ID	0606373-03		
Lab Sample ID	1034231002		
Filename	F60629A_09		
Injected By	BAL		
Total Amount Extracted	20.0 g	Matrix	Solid
% Moisture	28.7	Dilution	NA
Dry Weight Extracted	14.3 g	Collected	06/21/2006
ICAL Date	05/31/2006	Received	06/23/2006
CCal Filename(s)	F60629A_01 & F60629A_16	Extracted	06/27/2006
Method Blank ID	BLANK-10052	Analyzed	06/29/2006 20:52

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	4.70	----	0.54	A	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	170.00	----	0.14		2,3,7,8-TCDD-13C	2.00	87
					1,2,3,7,8-PeCDF-13C	2.00	67
2,3,7,8-TCDD	0.62	----	0.53	JA	2,3,4,7,8-PeCDF-13C	2.00	78
Total TCDD	21.00	----	0.14		1,2,3,7,8-PeCDD-13C	2.00	103
					1,2,3,4,7,8-HxCDF-13C	2.00	84
1,2,3,7,8-PeCDF	----	21	1.40	EA	1,2,3,6,7,8-HxCDF-13C	2.00	56
2,3,4,7,8-PeCDF	76.00	----	0.70		2,3,4,6,7,8-HxCDF-13C	2.00	62
Total PeCDF	590.00	----	0.70		1,2,3,7,8,9-HxCDF-13C	2.00	62
					1,2,3,4,7,8-HxCDD-13C	2.00	72
1,2,3,7,8-PeCDD	5.20	----	0.70		1,2,3,6,7,8-HxCDD-13C	2.00	58
Total PeCDD	55.00	----	0.70		1,2,3,4,6,7,8-HpCDF-13C	2.00	54
					1,2,3,4,7,8,9-HpCDF-13C	2.00	48
1,2,3,4,7,8-HxCDF	18.00	----	0.70		1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	14.00	----	0.70		OCDD-13C	4.00	35 P
2,3,4,6,7,8-HxCDF	13.00	----	0.70				
1,2,3,7,8,9-HxCDF	9.60	----	0.70		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	380.00	----	0.70		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	3.40	----	0.70	J	2,3,7,8-TCDD-37Cl4	0.20	91
1,2,3,6,7,8-HxCDD	12.00	----	0.70				
1,2,3,7,8,9-HxCDD	7.20	----	0.70				
Total HxCDD	130.00	----	0.70				
1,2,3,4,6,7,8-HpCDF	36.00	----	0.70		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	6.10	----	0.70		Equivalence: 51 ng/Kg		
Total HpCDF	94.00	----	0.70		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	66.00	----	0.70				
Total HpCDD	130.00	----	0.70				
OCDF	37.00	----	1.40				
OCDD	540.00	----	1.40				

Results reported on a dry weight basis  
 Conc = Concentration (Totals include 2,3,7,8-substituted isomers)  
 EMPC = Estimated Maximum Possible Concentration  
 A = Detection Limit based on signal-to-noise measurement  
 J = Concentration detected is below the calibration range  
 B = Less than 10 times higher than method blank level  
 P = Recovery outside of target range  
 Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit  
 I = Interference  
 E = PCDE Interference  
 S = Saturated signal  
 ND = Not Detected  
 NA = Not Applicable  
 NC = Not Calculated  
 \* = See Discussion

Report No.....1034231

**REPORT OF LABORATORY ANALYSIS**

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

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## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2801  
Date Sampled: 06/21/06 14:02

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-05  
Sample Matrix: Soil

### Dioxins

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Dioxin	See Attached								

**Method 8290 Analysis Results**

Client - ESS Laboratory

Client's Sample ID	0606373-05		
Lab Sample ID	1034231003		
Filename	F60629A_14		
Injected By	BAL		
Total Amount Extracted	21.0 g	Matrix	Solid
% Moisture	73.5	Dilution	10
Dry Weight Extracted	5.58 g	Collected	06/21/2006
ICAL Date	05/31/2006	Received	06/23/2006
CCal Filename(s)	F60629A_01 & F60629A_16	Extracted	06/27/2006
Method Blank ID	BLANK-10052	Analyzed	06/30/2006 01:01

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	84	----	16.0	A	2,3,7,8-TCDF-13C	2.00	82
Total TCDF	8800	----	3.6		2,3,7,8-TCDD-13C	2.00	87
					1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	22	----	5.3	A	2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD	420	----	3.6		1,2,3,7,8-PeCDD-13C	2.00	104
					1,2,3,4,7,8-HxCDF-13C	2.00	108
1,2,3,7,8-PeCDF	----	740	18.0	E	1,2,3,6,7,8-HxCDF-13C	2.00	60
2,3,4,7,8-PeCDF	3100	----	18.0		2,3,4,6,7,8-HxCDF-13C	2.00	70
Total PeCDF	24000	----	18.0		1,2,3,7,8,9-HxCDF-13C	2.00	69
					1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	76	----	18.0		1,2,3,6,7,8-HxCDD-13C	2.00	62
Total PeCDD	950	----	18.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	57
					1,2,3,4,7,8,9-HpCDF-13C	2.00	46
1,2,3,4,7,8-HxCDF	300	----	18.0		1,2,3,4,6,7,8-HpCDD-13C	2.00	66
1,2,3,6,7,8-HxCDF	520	----	18.0		OCDD-13C	4.00	39
2,3,4,6,7,8-HxCDF	420	----	18.0				P
1,2,3,7,8,9-HxCDF	200	----	18.0		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	10000	----	18.0		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	39	----	18.0		2,3,7,8-TCDD-37Cl4	0.20	92
1,2,3,6,7,8-HxCDD	110	----	18.0				
1,2,3,7,8,9-HxCDD	68	----	18.0				
Total HxCDD	1400	----	18.0				
1,2,3,4,6,7,8-HpCDF	640	----	18.0		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	99	----	18.0		Equivalence: 1800 ng/Kg		
Total HpCDF	1600	----	18.0		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	490	----	18.0				
Total HpCDD	1000	----	18.0				
OCDF	210	----	36.0				
OCDD	2900	----	36.0				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)  
EMPC = Estimated Maximum Possible Concentration  
A = Detection Limit based on signal-to-noise measurement  
J = Concentration detected is below the calibration range  
B = Less than 10 times higher than method blank level  
P = Recovery outside of target range  
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit  
I = Interference  
E = PCDE Interference  
S = Saturated signal  
ND = Not Detected  
NA = Not Applicable  
NC = Not Calculated  
\* = See Discussion

Report No.....1034231

**REPORT OF LABORATORY ANALYSIS**

# ESS Laboratory

Division of Thielsch Engineering, Inc.

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## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED2901

Date Sampled: 06/21/06 14:42

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-07

Sample Matrix: Soil

### Dioxins

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Dioxin	See Attached								



## Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606373-07		
Lab Sample ID	1034231004		
Filename	F60629A_11		
Injected By	BAL		
Total Amount Extracted	20.9 g	Matrix	Solid
% Moisture	74.0	Dilution	NA
Dry Weight Extracted	5.42 g	Collected	06/21/2006
ICAL Date	05/31/2006	Received	06/23/2006
CCal Filename(s)	F60629A_01 & F60629A_16	Extracted	06/27/2006
Method Blank ID	BLANK-10052	Analyzed	06/29/2006 22:32

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	32	----	11.0	A	2,3,7,8-TCDF-13C	2.00	82
Total TCDF	3700	----	0.37		2,3,7,8-TCDD-13C	2.00	91
					1,2,3,7,8-PeCDF-13C	2.00	68
2,3,7,8-TCDD	12	----	2.0	A	2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	270	----	0.37		1,2,3,7,8-PeCDD-13C	2.00	101
					1,2,3,4,7,8-HxCDF-13C	2.00	123
1,2,3,7,8-PeCDF	----	140	4.4	EA	1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	160	----	4.2	A	2,3,4,6,7,8-HxCDF-13C	2.00	84
Total PeCDF	14000	----	1.8		1,2,3,7,8,9-HxCDF-13C	2.00	90
					1,2,3,4,7,8-HxCDD-13C	2.00	96
1,2,3,7,8-PeCDD	41	----	1.8		1,2,3,6,7,8-HxCDD-13C	2.00	75
Total PeCDD	530	----	1.8		1,2,3,4,6,7,8-HpCDF-13C	2.00	56
					1,2,3,4,7,8,9-HpCDF-13C	2.00	43
1,2,3,4,7,8-HxCDF	210	----	2.9	A	1,2,3,4,6,7,8-HpCDD-13C	2.00	62
1,2,3,6,7,8-HxCDF	290	----	6.1	A	OCDD-13C	4.00	34 P
2,3,4,6,7,8-HxCDF	230	----	3.6	A			
1,2,3,7,8,9-HxCDF	140	----	3.1	A	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	8300	----	1.8		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	18	----	2.1	A	2,3,7,8-TCDD-37Cl4	0.20	115
1,2,3,6,7,8-HxCDD	70	----	2.4	A			
1,2,3,7,8,9-HxCDD	31	----	1.8				
Total HxCDD	900	----	1.8				
1,2,3,4,6,7,8-HpCDF	350	----	1.8		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	69	----	3.4	A	Equivalence: 220 ng/Kg		
Total HpCDF	870	----	1.8		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	180	----	1.8				
Total HpCDD	400	----	1.8				
OCDF	170	----	3.7				
OCDD	840	----	3.7				

### Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)  
EMPC = Estimated Maximum Possible Concentration  
A = Detection Limit based on signal-to-noise measurement  
J = Concentration detected is below the calibration range  
B = Less than 10 times higher than method blank level  
P = Recovery outside of target range  
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit  
I = Interference  
E = PCDE Interference  
S = Saturated signal  
ND = Not Detected  
NA = Not Applicable  
NC = Not Calculated  
\* = See Discussion

Report No.....1034231

## REPORT OF LABORATORY ANALYSIS

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# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

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## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED3201  
Date Sampled: 06/21/06 15:22

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-09  
Sample Matrix: Soil

### Dioxins

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Dioxin	See Attached								

**Method 8290 Analysis Results**

Client - ESS Laboratory

Client's Sample ID	0606373-09		
Lab Sample ID	1034231005		
Filename	F60629A_12		
Injected By	BAL		
Total Amount Extracted	18.3 g	Matrix	Solid
% Moisture	25.0	Dilution	NA
Dry Weight Extracted	13.7 g	Collected	06/21/2006
ICAL Date	05/31/2006	Received	06/23/2006
CCal Filename(s)	F60629A_01 & F60629A_16	Extracted	06/27/2006
Method Blank ID	BLANK-10052	Analyzed	06/29/2006 23:22

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	6.00	----	0.61	A	2,3,7,8-TCDF-13C	2.00	86
Total TCDF	160.00	----	0.15		2,3,7,8-TCDD-13C	2.00	88
					1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	0.52	----	0.38	JA	2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	12.00	----	0.15		1,2,3,7,8-PeCDD-13C	2.00	106
					1,2,3,4,7,8-HxCDF-13C	2.00	84
1,2,3,7,8-PeCDF	----	120	1.00	EA	1,2,3,6,7,8-HxCDF-13C	2.00	57
2,3,4,7,8-PeCDF	28.00	----	0.73		2,3,4,6,7,8-HxCDF-13C	2.00	68
Total PeCDF	500.00	----	0.73		1,2,3,7,8,9-HxCDF-13C	2.00	69
					1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	2.20	----	0.73	J	1,2,3,6,7,8-HxCDD-13C	2.00	61
Total PeCDD	25.00	----	0.73		1,2,3,4,6,7,8-HpCDF-13C	2.00	56
					1,2,3,4,7,8,9-HpCDF-13C	2.00	42
1,2,3,4,7,8-HxCDF	11.00	----	0.73		1,2,3,4,6,7,8-HpCDD-13C	2.00	61
1,2,3,6,7,8-HxCDF	12.00	----	0.73		OCDD-13C	4.00	37 P
2,3,4,6,7,8-HxCDF	12.00	----	0.73				
1,2,3,7,8,9-HxCDF	5.30	----	0.73		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	320.00	----	0.73		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.80	----	0.73	J	2,3,7,8-TCDD-37Cl4	0.20	104
1,2,3,6,7,8-HxCDD	4.80	----	0.73				
1,2,3,7,8,9-HxCDD	2.80	----	0.73	J			
Total HxCDD	51.00	----	0.73				
1,2,3,4,6,7,8-HpCDF	40.00	----	0.73		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	5.10	----	0.73		Equivalence: 23 ng/Kg		
Total HpCDF	120.00	----	0.73		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	74.00	----	0.73				
Total HpCDD	170.00	----	0.73				
OCDF	80.00	----	1.50				
OCDD	810.00	----	1.50				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)  
EMPC = Estimated Maximum Possible Concentration  
A = Detection Limit based on signal-to-noise measurement  
J = Concentration detected is below the calibration range  
B = Less than 10 times higher than method blank level  
P = Recovery outside of target range  
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit  
I = Interference  
E = PCDE Interference  
S = Saturated signal  
ND = Not Detected  
NA = Not Applicable  
NC = Not Calculated  
\* = See Discussion

Report No.....1034231

**REPORT OF LABORATORY ANALYSIS**

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED2001  
Date Sampled: 06/22/06 08:40

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-12  
Sample Matrix: Soil

### Dioxins

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Dioxin	See Attached								

**Method 8290 Analysis Results**

Client - ESS Laboratory

Client's Sample ID	0606373-12		
Lab Sample ID	1034231006		
Filename	U60701A_21		
Injected By	BAL		
Total Amount Extracted	18.0 g	Matrix	Solid
% Moisture	53.9	Dilution	NA
Dry Weight Extracted	8.30 g	Collected	06/22/2006
ICAL Date	07/01/2006	Received	06/23/2006
CCal Filename(s)	U60701A_10 & U60701A_23	Extracted	06/28/2006
Method Blank ID	BLANK-10057	Analyzed	07/02/2006 06:23

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	9.3	----	8.0	A	2,3,7,8-TCDF-13C	2.00	98
Total TCDF	1400.0	----	0.24		2,3,7,8-TCDD-13C	2.00	88
					1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	7.3	----	4.5	A	2,3,4,7,8-PeCDF-13C	2.00	73
Total TCDD	160.0	----	0.24		1,2,3,7,8-PeCDD-13C	2.00	76
					1,2,3,4,7,8-HxCDF-13C	2.00	142 P
1,2,3,7,8-PeCDF	----	170	8.4	EA	1,2,3,6,7,8-HxCDF-13C	2.00	116
2,3,4,7,8-PeCDF	140.0	----	7.3	A	2,3,4,6,7,8-HxCDF-13C	2.00	105
Total PeCDF	6900.0	----	1.2		1,2,3,7,8,9-HxCDF-13C	2.00	105
					1,2,3,4,7,8-HxCDD-13C	2.00	105
1,2,3,7,8-PeCDD	30.0	----	6.8	A	1,2,3,6,7,8-HxCDD-13C	2.00	97
Total PeCDD	390.0	----	1.2		1,2,3,4,6,7,8-HpCDF-13C	2.00	73
					1,2,3,4,7,8,9-HpCDF-13C	2.00	65
1,2,3,4,7,8-HxCDF	140.0	----	3.0	A	1,2,3,4,6,7,8-HpCDD-13C	2.00	77
1,2,3,6,7,8-HxCDF	140.0	----	4.1	A	OCDD-13C	4.00	57
2,3,4,6,7,8-HxCDF	120.0	----	4.7	A			
1,2,3,7,8,9-HxCDF	52.0	----	4.2	A	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	4600.0	----	1.2		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	15.0	----	5.6	A	2,3,7,8-TCDD-37Cl4	0.20	96
1,2,3,6,7,8-HxCDD	35.0	----	4.2	A			
1,2,3,7,8,9-HxCDD	16.0	----	4.0	A			
Total HxCDD	470.0	----	1.2				
1,2,3,4,6,7,8-HpCDF	200.0	----	3.4	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	41.0	----	5.0	A	Equivalence: 150 ng/Kg		
Total HpCDF	500.0	----	1.2		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	90.0	----	2.9	A			
Total HpCDD	190.0	----	1.2				
OCDF	82.0	----	6.8	A			
OCDD	240.0	----	10.0	A			

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)  
EMPC = Estimated Maximum Possible Concentration  
A = Detection Limit based on signal-to-noise measurement  
J = Concentration detected is below the calibration range  
B = Less than 10 times higher than method blank level  
P = Recovery outside of target range  
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit  
I = Interference  
E = PCDE Interference  
S = Saturated signal  
ND = Not Detected  
NA = Not Applicable  
NC = Not Calculated  
\* = See Discussion

Report No.....1034231

**REPORT OF LABORATORY ANALYSIS**

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

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## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1701  
Date Sampled: 06/22/06 09:15

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-14  
Sample Matrix: Soil

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Dioxin	See Attached								



**Method 8290 Analysis Results**

Client - ESS Laboratory

Client's Sample ID	0606373-14			
Lab Sample ID	1034231007			
Filename	P60630A_09			
Injected By	BAL			
Total Amount Extracted	20.3 g	Matrix	Solid	
% Moisture	27.7	Dilution	NA	
Dry Weight Extracted	14.7 g	Collected	06/22/2006	
ICAL Date	05/20/2006	Received	06/23/2006	
CCal Filename(s)	P60630A_02 & P60630A_17	Extracted	06/28/2006	
Method Blank ID	BLANK-10057	Analyzed	07/01/2006 01:23	

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	----	4.9	0.450	EA	2,3,7,8-TCDF-13C	2.00	89
Total TCDF	600.0	----	0.140		2,3,7,8-TCDD-13C	2.00	89
					1,2,3,7,8-PeCDF-13C	2.00	67
2,3,7,8-TCDD	1.1	----	0.170	A	2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	23.0	----	0.140		1,2,3,7,8-PeCDD-13C	2.00	98
					1,2,3,4,7,8-HxCDF-13C	2.00	97
1,2,3,7,8-PeCDF	8.1	----	0.920	A	1,2,3,6,7,8-HxCDF-13C	2.00	81
2,3,4,7,8-PeCDF	190.0	----	0.870	A	2,3,4,6,7,8-HxCDF-13C	2.00	80
Total PeCDF	2100.0	----	0.680		1,2,3,7,8,9-HxCDF-13C	2.00	82
					1,2,3,4,7,8-HxCDD-13C	2.00	94
1,2,3,7,8-PeCDD	3.3	----	0.680	J	1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	41.0	----	0.680		1,2,3,4,6,7,8-HpCDF-13C	2.00	79
					1,2,3,4,7,8,9-HpCDF-13C	2.00	75
1,2,3,4,7,8-HxCDF	17.0	----	0.680		1,2,3,4,6,7,8-HpCDD-13C	2.00	106
1,2,3,6,7,8-HxCDF	30.0	----	0.680		OCDD-13C	4.00	80
2,3,4,6,7,8-HxCDF	75.0	----	0.680				
1,2,3,7,8,9-HxCDF	13.0	----	0.680		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	900.0	----	0.680		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.2	----	0.680	J	2,3,7,8-TCDD-37Cl4	0.20	95
1,2,3,6,7,8-HxCDD	5.7	----	0.680				
1,2,3,7,8,9-HxCDD	3.3	----	0.680	J			
Total HxCDD	70.0	----	0.680				
1,2,3,4,6,7,8-HpCDF	35.0	----	0.680		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	6.5	----	0.680		Equivalence: 110 ng/Kg		
Total HpCDF	87.0	----	0.680		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	21.0	----	0.680				
Total HpCDD	44.0	----	0.680				
OCDF	8.0	----	1.400				
OCDD	70.0	----	1.400				

Results reported on a dry weight basis  
 Conc = Concentration (Totals include 2,3,7,8-substituted isomers)  
 EMPC = Estimated Maximum Possible Concentration  
 A = Detection Limit based on signal-to-noise measurement  
 J = Concentration detected is below the calibration range  
 B = Less than 10 times higher than method blank level  
 P = Recovery outside of target range  
 Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit  
 I = Interference  
 E = PCDE Interference  
 S = Saturated signal  
 ND = Not Detected  
 NA = Not Applicable  
 NC = Not Calculated  
 \* = See Discussion

Report No.....1034231

**REPORT OF LABORATORY ANALYSIS**

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

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## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1001  
Date Sampled: 06/22/06 09:45

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-16  
Sample Matrix: Soil

### Dioxins

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Dioxin	See Attached								



**Method 8290 Analysis Results**

Client - ESS Laboratory

Client's Sample ID	0606373-16		
Lab Sample ID	1034231008		
Filename	F60708A_05		
Injected By	BAL		
Total Amount Extracted	16.1 g	Matrix	Solid
% Moisture	17.0	Dilution	NA
Dry Weight Extracted	13.3 g	Collected	06/22/2006
ICAL Date	05/31/2006	Received	06/23/2006
CCal Filename(s)	F60708A_01 & F60708A_17	Extracted	06/28/2006
Method Blank ID	BLANK-10057	Analyzed	07/09/2006 00:09

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	0.150	2,3,7,8-TCDF-13C	2.00	92
Total TCDF	ND	----	0.150	2,3,7,8-TCDD-13C	2.00	88
				1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	ND	----	0.150	2,3,4,7,8-PeCDF-13C	2.00	85
Total TCDD	ND	----	0.150	1,2,3,7,8-PeCDD-13C	2.00	103
				1,2,3,4,7,8-HxCDF-13C	2.00	89
1,2,3,7,8-PeCDF	ND	----	0.750	1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	ND	----	0.750	2,3,4,6,7,8-HxCDF-13C	2.00	87
Total PeCDF	ND	----	0.750	1,2,3,7,8,9-HxCDF-13C	2.00	89
				1,2,3,4,7,8-HxCDD-13C	2.00	87
1,2,3,7,8-PeCDD	ND	----	0.750	1,2,3,6,7,8-HxCDD-13C	2.00	82
Total PeCDD	ND	----	0.750	1,2,3,4,6,7,8-HpCDF-13C	2.00	80
				1,2,3,4,7,8,9-HpCDF-13C	2.00	66
1,2,3,4,7,8-HxCDF	ND	----	0.750	1,2,3,4,6,7,8-HpCDD-13C	2.00	82
1,2,3,6,7,8-HxCDF	ND	----	0.750	OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	ND	----	0.750			
1,2,3,7,8,9-HxCDF	ND	----	0.750	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	0.750	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.750	2,3,7,8-TCDD-37Cl4	0.20	95
1,2,3,6,7,8-HxCDD	ND	----	0.750			
1,2,3,7,8,9-HxCDD	ND	----	0.750			
Total HxCDD	ND	----	0.750			
1,2,3,4,6,7,8-HpCDF	ND	----	0.750	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.750	Equivalence: 0.0044 ng/Kg		
Total HpCDF	ND	----	0.750	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	0.750			
Total HpCDD	ND	----	0.750			
OCDF	ND	----	1.500			
OCDD	4.4	----	1.500	BJ		

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)  
EMPC = Estimated Maximum Possible Concentration  
A = Detection Limit based on signal-to-noise measurement  
J = Concentration detected is below the calibration range  
B = Less than 10 times higher than method blank level  
P = Recovery outside of target range  
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit  
I = Interference  
E = PCDE Interference  
S = Saturated signal  
ND = Not Detected  
NA = Not Applicable  
NC = Not Calculated  
\* = See Discussion

Report No.....1034231

**REPORT OF LABORATORY ANALYSIS**

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

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## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.  
Client Project ID: Providence Gorham Site  
Client Sample ID: SED1101  
Date Sampled: 06/22/06 10:15

ESS Laboratory Work Order: 0606373  
ESS Laboratory Sample ID: 0606373-18  
Sample Matrix: Soil

### Dioxins

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Dioxin	See Attached								

# ESS Laboratory

*Division of Thielsch Engineering, Inc.*

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## CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.

Client Project ID: Providence Gorham Site

Client Sample ID: SED1201

Date Sampled: 06/22/06 11:01

ESS Laboratory Work Order: 0606373

ESS Laboratory Sample ID: 0606373-20

Sample Matrix: Soil

### Dioxins

<u>Analyte</u>	<u>Results</u>	<u>Units</u>	<u>MRL</u>	<u>Method</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>
Dioxin	See Attached								

## Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606373-20		
Lab Sample ID	1034231010		
Filename	P60630A_12		
Injected By	BAL		
Total Amount Extracted	16.0 g	Matrix	Solid
% Moisture	12.3	Dilution	NA
Dry Weight Extracted	14.0 g	Collected	06/22/2006
ICAL Date	05/20/2006	Received	06/23/2006
CCal Filename(s)	P60630A_02 & P60630A_17	Extracted	06/28/2006
Method Blank ID	BLANK-10057	Analyzed	07/01/2006 03:47

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.24	----	0.16	JA	2,3,7,8-TCDF-13C	2.00	84
Total TCDF	3.70	----	0.14		2,3,7,8-TCDD-13C	2.00	83
					1,2,3,7,8-PeCDF-13C	2.00	70
2,3,7,8-TCDD	ND	----	0.14		2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	0.31	----	0.14	J	1,2,3,7,8-PeCDD-13C	2.00	98
					1,2,3,4,7,8-HxCDF-13C	2.00	97
1,2,3,7,8-PeCDF	ND	----	0.71		1,2,3,6,7,8-HxCDF-13C	2.00	78
2,3,4,7,8-PeCDF	0.73	----	0.71	J	2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF	5.60	----	0.71		1,2,3,7,8,9-HxCDF-13C	2.00	82
					1,2,3,4,7,8-HxCDD-13C	2.00	98
1,2,3,7,8-PeCDD	ND	----	0.71		1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	ND	----	0.71		1,2,3,4,6,7,8-HpCDF-13C	2.00	78
					1,2,3,4,7,8,9-HpCDF-13C	2.00	76
1,2,3,4,7,8-HxCDF	ND	----	0.71		1,2,3,4,6,7,8-HpCDD-13C	2.00	110
1,2,3,6,7,8-HxCDF	ND	----	0.71		OCDD-13C	4.00	82
2,3,4,6,7,8-HxCDF	ND	----	0.71				
1,2,3,7,8,9-HxCDF	ND	----	0.71		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	3.90	----	0.71		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	0.71		2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	----	0.71				
1,2,3,7,8,9-HxCDD	ND	----	0.71				
Total HxCDD	1.10	----	0.71	J			
1,2,3,4,6,7,8-HpCDF	2.00	----	0.71	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	0.71		Equivalence: 0.55 ng/Kg		
Total HpCDF	2.00	----	0.71	J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	7.40	----	0.71				
Total HpCDD	13.00	----	0.71				
OCDF	3.10	----	1.40	J			
OCDD	64.00	----	1.40				

Results reported on a dry weight basis

Conc = Concentration (Totals include 2,3,7,8-substituted isomers)  
EMPC = Estimated Maximum Possible Concentration  
A = Detection Limit based on signal-to-noise measurement  
J = Concentration detected is below the calibration range  
B = Less than 10 times higher than method blank level  
P = Recovery outside of target range  
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit  
I = Interference  
E = PCDE Interference  
S = Saturated signal  
ND = Not Detected  
NA = Not Applicable  
NC = Not Calculated  
\* = See Discussion

Report No.....1034231

## REPORT OF LABORATORY ANALYSIS



### Method 8290 Spike Sample Results

Client - ESS Laboratory

Client's Sample ID	0606373-20	Matrix	Solid
Lab Sample ID	1034231010-MS	Dilution	NA
Filename	P60630A_14	Extracted	06/28/2006
Total Amount Extracted	16.2 g	Analyzed	07/01/2006 05:23
ICAL Date	05/20/2006	Injected By	BAL
CCal Filename(s)	P60630A_02 & P60630A_17		
Method Blank ID	BLANK-10057		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery			
2,3,7,8-TCDF	0.20	0.18	92	2,3,7,8-TCDF-13C	2.00	73			
				2,3,7,8-TCDD-13C	2.00	75			
				1,2,3,7,8-PeCDF-13C	2.00	69			
2,3,7,8-TCDD	0.20	0.19	97	2,3,4,7,8-PeCDF-13C	2.00	75			
				1,2,3,7,8-PeCDD-13C	2.00	98			
				1,2,3,4,7,8-HxCDF-13C	2.00	81			
1,2,3,7,8-PeCDF	1.00	1.11	111	1,2,3,6,7,8-HxCDF-13C	2.00	65			
				2,3,4,6,7,8-HxCDF-13C	2.00	66			
				1,2,3,7,8,9-HxCDF-13C	2.00	70			
2,3,4,7,8-PeCDF	1.00	1.06	106	1,2,3,4,7,8-HxCDD-13C	2.00	78			
				1,2,3,6,7,8-HxCDD-13C	2.00	65			
				1,2,3,4,6,7,8-HpCDF-13C	2.00	65			
1,2,3,7,8-PeCDD	1.00	0.92	92	1,2,3,4,7,8,9-HpCDF-13C	2.00	59			
				1,2,3,4,6,7,8-HpCDD-13C	2.00	87			
				OCDD-13C	4.00	53			
1,2,3,4,7,8-HxCDF	1.00	1.00	100	1,2,3,4-TCDD-13C	2.00	NA			
				1,2,3,7,8,9-HxCDD-13C	2.00	NA			
				2,3,4,6,7,8-HxCDF	1.00	1.09	109		
1,2,3,6,7,8-HxCDF	1.00	1.08	108	2,3,7,8-TCDD-37Cl4	0.20	79			
				1,2,3,7,8,9-HxCDF	1.00	1.07	107		
				1,2,3,4,7,8-HxCDD	1.00	1.06	106		
1,2,3,7,8,9-HxCDD	1.00	1.14	114						
				1,2,3,6,7,8-HxCDD	1.00	1.07	107		
				1,2,3,4,6,7,8-HpCDF	1.00	1.13	113		
1,2,3,4,7,8,9-HpCDF	1.00	1.12	112						
				1,2,3,4,7,8,9-HpCDF	1.00	1.12	112		
				1,2,3,4,6,7,8-HpCDD	1.00	0.98	98		
OCDF	2.00	1.70	85						
				OCDD	2.00	2.18	109		

Qs = Quantity Spiked  
 Qm = Quantity Measured  
 Rec. = Recovery (Expressed as Percent)  
 P = Recovery outside of target range of 40-135%  
 X = Background subtracted value  
 E = PCDE Interference  
 Nn = Value obtained from additional analysis  
 NA = Not Applicable  
 \* = See Discussion

Report No.....1034231

## REPORT OF LABORATORY ANALYSIS

**Method 8290 Spike Sample Results**

Client - ESS Laboratory

Client's Sample ID	0606373-20	Matrix	Solid
Lab Sample ID	1034231010-MSD	Dilution	NA
Filename	P60630A_15	Extracted	06/28/2006
Total Amount Extracted	16.0 g	Analyzed	07/01/2006 06:11
ICAL Date	05/20/2006	Injected By	BAL
CCal Filename(s)	P60630A_02 & P60630A_17		
Method Blank ID	BLANK-10057		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.17	87	2,3,7,8-TCDF-13C	2.00	75
				2,3,7,8-TCDD-13C	2.00	78
				1,2,3,7,8-PeCDF-13C	2.00	64
2,3,7,8-TCDD	0.20	0.19	96	2,3,4,7,8-PeCDF-13C	2.00	76
				1,2,3,7,8-PeCDD-13C	2.00	101
				1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	1.00	1.04	104	1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	1.00	1.00	100	2,3,4,6,7,8-HxCDF-13C	2.00	69
				1,2,3,7,8,9-HxCDF-13C	2.00	74
				1,2,3,4,7,8-HxCDD-13C	2.00	86
1,2,3,7,8-PeCDD	1.00	0.86	86	1,2,3,6,7,8-HxCDD-13C	2.00	73
				1,2,3,4,6,7,8-HpCDF-13C	2.00	74
				1,2,3,4,7,8,9-HpCDF-13C	2.00	68
1,2,3,4,7,8-HxCDF	1.00	0.95	95	1,2,3,4,6,7,8-HpCDD-13C	2.00	92
1,2,3,6,7,8-HxCDF	1.00	1.05	105	OCDD-13C	4.00	68
2,3,4,6,7,8-HxCDF	1.00	1.02	102			
1,2,3,7,8,9-HxCDF	1.00	1.03	103	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.11	111	2,3,7,8-TCDD-37Cl4	0.20	81
1,2,3,6,7,8-HxCDD	1.00	0.98	98			
1,2,3,7,8,9-HxCDD	1.00	1.02	102			
1,2,3,4,6,7,8-HpCDF	1.00	1.08	108			
1,2,3,4,7,8,9-HpCDF	1.00	1.13	113			
1,2,3,4,6,7,8-HpCDD	1.00	0.94	94			
OCDF	2.00	1.79	90			
OCDD	2.00	2.05	102			

Qs = Quantity Spiked  
Qm = Quantity Measured  
Rec. = Recovery (Expressed as Percent)  
P = Recovery outside of target range of 40-135%  
X = Background subtracted value  
E = PCDE Interference  
Nn = Value obtained from additional analysis  
NA = Not Applicable  
\* = See Discussion

Report No.....1034231

**REPORT OF LABORATORY ANALYSIS**



Pace Analytical Services, Inc.  
1700 Elm Street - Suite 200  
Minneapolis, MN 55414

Tel: 612-607-1700  
Fax: 612-607-6444

### Method 8290 Spike Sample Results

Client - ESS Laboratory

Client Sample ID 0606373-20  
Lab Sample ID 1034231010  
MS ID 1034231010-MS  
MSD ID 1034231010-MSD

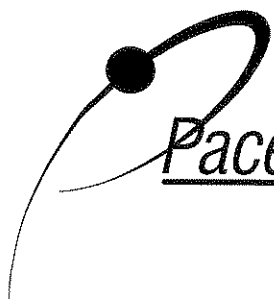
Dry Weights  
Sample Amount 14.0 g  
MS Amount 14.2 g  
MSD Amount 14.0 g

Sample Filename P60630A\_12  
MS Filename P60630A\_14  
MSD Filename P60630A\_15

Analyte	Sample Conc. ng/Kg	MS/MSD Qs (ng)	MS Qm (ng)	MSD Qm (ng)	RPD	MS % Rec.	Background Subtracted MSD % Rec.	RPD
2,3,7,8-TCDF	0.244	0.20	0.18	0.17	4.9	90	86	5.0
2,3,7,8-TCDD	0.000	0.20	0.19	0.19	1.2	97	96	1.2
1,2,3,7,8-PeCDF	0.000	1.00	1.11	1.04	6.9	111	104	6.9
2,3,4,7,8-PeCDF	0.729	1.00	1.06	1.00	6.1	105	99	6.2
1,2,3,7,8-PeCDD	0.000	1.00	0.92	0.86	6.8	92	86	6.8
1,2,3,4,7,8-HxCDF	0.000	1.00	1.00	0.95	4.8	100	95	4.8
1,2,3,6,7,8-HxCDF	0.000	1.00	1.09	1.05	4.5	109	105	4.5
2,3,4,6,7,8-HxCDF	0.000	1.00	1.08	1.02	5.4	108	102	5.4
1,2,3,7,8,9-HxCDF	0.000	1.00	1.07	1.03	4.3	107	103	4.3
1,2,3,4,7,8-HxCDD	0.000	1.00	1.06	1.11	4.3	106	111	4.3
1,2,3,6,7,8-HxCDD	0.000	1.00	1.07	0.98	9.7	107	98	9.7
1,2,3,7,8,9-HxCDD	0.000	1.00	1.14	1.02	11.0	114	102	11.0
1,2,3,4,6,7,8-HpCDF	1.973	1.00	1.13	1.08	4.5	110	105	4.5
1,2,3,4,7,8,9-HpCDF	0.000	1.00	1.12	1.13	1.0	112	113	1.0
1,2,3,4,6,7,8-HpCDD	7.447	1.00	0.98	0.94	3.6	87	84	3.9
OCDF	3.148	2.00	1.70	1.79	5.2	83	87	5.4
OCDD	64.372	2.00	2.18	2.05	6.2	63	57	9.8

#### Definitions

MS = Matrix Spike  
MSD = Matrix Spike Duplicate  
Qm = Quantity Measured  
Qs = Quantity Spiked  
% Rec. = Percent Recovery  
RPD = Relative Percent Difference  
CDD = Chlorinated dibenzo-p-dioxin  
CDF = Chlorinated dibenzo-p-furan  
T = Tetra  
Pe = Penta  
Hx = Hexa  
Hp = Hepta  
O = Octa



Method 8290 Laboratory Control Spike Results

Client - ESS Laboratory

Lab Sample ID	LCS-10053	Matrix	Solid
Filename	U60629A_05	Dilution	NA
Total Amount Extracted	10.1 g	Extracted	06/27/2006
ICAL Date	02/13/2006	Analyzed	06/29/2006 12:56
CCal Filename(s)	U60629A_04 & U60629A_20	Injected By	SMT
Method Blank ID	BLANK-10052		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	105	2,3,7,8-TCDF-13C	2.00	61
				2,3,7,8-TCDD-13C	2.00	78
				1,2,3,7,8-PeCDF-13C	2.00	59
2,3,7,8-TCDD	0.20	0.17	85	2,3,4,7,8-PeCDF-13C	2.00	64
				1,2,3,7,8-PeCDD-13C	2.00	71
				1,2,3,4,7,8-HxCDF-13C	2.00	85
1,2,3,7,8-PeCDF	1.00	1.08	108	1,2,3,6,7,8-HxCDF-13C	2.00	70
2,3,4,7,8-PeCDF	1.00	1.02	102	2,3,4,6,7,8-HxCDF-13C	2.00	74
				1,2,3,7,8,9-HxCDF-13C	2.00	80
				1,2,3,4,7,8-HxCDD-13C	2.00	74
1,2,3,7,8-PeCDD	1.00	0.88	88	1,2,3,6,7,8-HxCDD-13C	2.00	72
				1,2,3,4,6,7,8-HpCDF-13C	2.00	71
				1,2,3,4,7,8,9-HpCDF-13C	2.00	64
1,2,3,4,7,8-HxCDF	1.00	0.86	86	1,2,3,4,6,7,8-HpCDD-13C	2.00	81
1,2,3,6,7,8-HxCDF	1.00	0.95	95	OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	1.00	0.90	90			
1,2,3,7,8,9-HxCDF	1.00	0.91	91	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.07	107	2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	1.00	1.03	103			
1,2,3,7,8,9-HxCDD	1.00	1.06	106			
1,2,3,4,6,7,8-HpCDF	1.00	1.00	100			
1,2,3,4,7,8,9-HpCDF	1.00	0.99	99			
1,2,3,4,6,7,8-HpCDD	1.00	0.86	86			
OCDF	2.00	1.91	96			
OCDD	2.00	1.92	96			

Qs = Quantity Spiked  
 Qm = Quantity Measured  
 Rec. = Recovery (Expressed as Percent)  
 P = Recovery outside of target range  
 X = Background subtracted value  
 Nn = Value obtained from additional analysis  
 NA = Not Applicable  
 \* = See Discussion

Report No.....1034231

REPORT OF LABORATORY ANALYSIS



**Method 8290 Laboratory Control Spike Results**

Client - ESS Laboratory

Lab Sample ID	LCS-10058	Matrix	Solid
Filename	F60630A_02	Dilution	NA
Total Amount Extracted	10.0 g	Extracted	06/28/2006
ICAL Date	05/31/2006	Analyzed	06/30/2006 09:54
CCal Filename(s)	F60630A_01 & F60630A_13	Injected By	CVS
Method Blank ID	BLANK-10057		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.17	86	2,3,7,8-TCDF-13C	2.00	70
				2,3,7,8-TCDD-13C	2.00	69
				1,2,3,7,8-PeCDF-13C	2.00	65
2,3,7,8-TCDD	0.20	0.18	90	2,3,4,7,8-PeCDF-13C	2.00	71
				1,2,3,7,8-PeCDD-13C	2.00	96
				1,2,3,4,7,8-HxCDF-13C	2.00	78
1,2,3,7,8-PeCDF	1.00	0.99	99	1,2,3,6,7,8-HxCDF-13C	2.00	73
2,3,4,7,8-PeCDF	1.00	0.91	91	2,3,4,6,7,8-HxCDF-13C	2.00	79
				1,2,3,7,8,9-HxCDF-13C	2.00	76
				1,2,3,4,7,8-HxCDD-13C	2.00	83
1,2,3,7,8-PeCDD	1.00	0.81	81	1,2,3,6,7,8-HxCDD-13C	2.00	76
				1,2,3,4,6,7,8-HpCDF-13C	2.00	72
				1,2,3,4,7,8,9-HpCDF-13C	2.00	61
1,2,3,4,7,8-HxCDF	1.00	0.87	87	1,2,3,4,6,7,8-HpCDD-13C	2.00	82
1,2,3,6,7,8-HxCDF	1.00	0.91	91	OCDD-13C	4.00	62
2,3,4,6,7,8-HxCDF	1.00	0.92	92			
1,2,3,7,8,9-HxCDF	1.00	0.91	91	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	0.96	96	2,3,7,8-TCDD-37Cl4	0.20	68
1,2,3,6,7,8-HxCDD	1.00	1.00	100			
1,2,3,7,8,9-HxCDD	1.00	1.01	101			
1,2,3,4,6,7,8-HpCDF	1.00	1.00	100			
1,2,3,4,7,8,9-HpCDF	1.00	1.05	105			
1,2,3,4,6,7,8-HpCDD	1.00	0.84	84			
OCDF	2.00	1.71	86			
OCDD	2.00	1.77	88			

Qs = Quantity Spiked  
Qm = Quantity Measured  
Rec. = Recovery (Expressed as Percent)  
P = Recovery outside of target range  
X = Background subtracted value  
Nn = Value obtained from additional analysis  
NA = Not Applicable  
\* = See Discussion

Report No.....1034231

**REPORT OF LABORATORY ANALYSIS**

**Sample and Cooler Receipt Checklist**

Client: Mactec  
 Client Project ID: \_\_\_\_\_  
 Shipped/Delivered Via: Client

ESS Project ID: 06060373  
 Date Project Due: 6/29/06  
 Days For Project: 5 Day

**Items to be checked upon receipt:**

- |   |                                   |   |                                     |
|---|-----------------------------------|---|-------------------------------------|
| 1. Air Bill Manifest Present?   | <input type="text" value="* No"/> | 10. Are the samples properly preserved?   | <input type="text" value="Yes"/>    |
| Air No.:  |                                   | 11. Proper sample containers used?        | <input type="text" value="Yes"/>    |
| 2. Were Custody Seals Present?  | <input type="text" value="No"/>   | 12. Any air bubbles in the VOA vials?     | <input type="text" value="N/A"/>    |
| 3. Were Custody Seals Intact?   | <input type="text" value="N/A"/>  | 13. Holding times exceeded?               | <input type="text" value="No"/>     |
| 4. Is Radiation count < 100 CPM?  | <input type="text" value="Yes"/>  | 14. Sufficient sample volumes?            | <input type="text" value="Yes"/>    |
| 5. Is a cooler present?   | <input type="text" value="Yes"/>  | 15. Any Subcontracting needed?            | <input type="text" value="No"/>     |
| <input type="text" value="Cooler Temp: 5.5"/>   |                                   | 16. Are ESS labels on correct containers? | <input type="text" value="Yes No"/> |
| <input type="text" value="Iced With: Icepacks"/>                                      |                                   | 17. Were samples received intact?         | <input type="text" value="Yes No"/> |
| 6. Was COC included with samples?   | <input type="text" value="Yes"/>  | ESS Sample IDs: _____                     |                                     |
| 7. Was COC signed and dated by client?  | <input type="text" value="Yes"/>  | Sub Lab: _____                            |                                     |
| 8. Does the COC match the sample  | <input type="text" value="Yes"/>  | Analysis: _____                           |                                     |
| 9. Is COC complete and correct?   | <input type="text" value="Yes"/>  | TAT: _____                                |                                     |
| 18. Was there need to call project manager to discuss status? If yes, please explain. |                                   |   |                                     |

Who was called?: \_\_\_\_\_ By whom? \_\_\_\_\_

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
1	Yes	40 ml - VOA	1	MeOH
1	Yes	40 ml - VOA	2	other
1	Yes	8 oz Soil Jar	3	NP
2	Yes	40 ml - VOA	1	MeOH
2	Yes	40 ml - VOA	2	other
2	Yes	8 oz Soil Jar	2	NP
3	Yes	4 oz Soil Jar	1	NP
3	Yes	40 ml - VOA	1	MeOH
3	Yes	40 ml - VOA	2	other
3	Yes	8 oz Soil Jar	3	NP
4	Yes	40 ml - VOA	1	MeOH
4	Yes	40 ml - VOA	2	other
4	Yes	8 oz Soil Jar	2	NP
5	Yes	4 oz Soil Jar	1	NP
5	Yes	40 ml - VOA	1	MeOH
5	Yes	40 ml - VOA	2	other
5	Yes	8 oz Soil Jar	3	NP
6	Yes	40 ml - VOA	1	MeOH
6	Yes	40 ml - VOA	2	other
6	Yes	8 oz Soil Jar	2	NP
7	Yes	4 oz Soil Jar	1	NP
7	Yes	40 ml - VOA	1	MeOH
7	Yes	40 ml - VOA	2	other
7	Yes	8 oz Soil Jar	3	NP

**Sample and Cooler Receipt Checklist**

Client: Mactec

ESS Project ID: 06060373

8	Yes	40 ml - VOA	1	MeOH
8	Yes	40 ml - VOA	2	other
8	Yes	8 oz Soil Jar	2	NP
9	Yes	4 oz Soil Jar	1	NP
9	Yes	40 ml - VOA	1	MeOH
9	Yes	40 ml - VOA	2	other
9	Yes	8 oz Soil Jar	3	NP
10	Yes	40 ml - VOA	1	MeOH
10	Yes	40 ml - VOA	2	other
10	Yes	8 oz Soil Jar	2	NP
11	Yes	40 ml - VOA	1	MeOH
11	Yes	40 ml - VOA	2	other
12	Yes	4 oz Soil Jar	1	NP
12	Yes	40 ml - VOA	1	MeOH
12	Yes	40 ml - VOA	2	other
12	Yes	8 oz Soil Jar	3	NP
13	Yes	40 ml - VOA	1	MeOH
13	Yes	40 ml - VOA	2	other
13	Yes	8 oz Soil Jar	2	NP
14	Yes	4 oz Soil Jar	1	NP
14	Yes	40 ml - VOA	1	MeOH
14	Yes	40 ml - VOA	2	other
14	Yes	8 oz Soil Jar	3	NP
15	Yes	40 ml - VOA	1	MeOH
15	Yes	40 ml - VOA	2	other
15	Yes	8 oz Soil Jar	2	NP
16	Yes	4 oz Soil Jar	1	NP
16	Yes	40 ml - VOA	1	MeOH
16	Yes	40 ml - VOA	2	other
16	Yes	8 oz Soil Jar	3	NP
17	Yes	40 ml - VOA	1	MeOH
17	Yes	40 ml - VOA	2	other
17	Yes	8 oz Soil Jar	2	NP
18	Yes	4 oz Soil Jar	1	NP
18	Yes	40 ml - VOA	1	MeOH
18	Yes	40 ml - VOA	2	other
18	Yes	8 oz Soil Jar	3	NP
19	Yes	40 ml - VOA	1	MeOH
19	Yes	40 ml - VOA	2	other
19	Yes	8 oz Soil Jar	2	NP
20	Yes	4 oz Soil Jar	1	NP
20	Yes	40 ml - VOA	1	MeOH
20	Yes	40 ml - VOA	2	other
20	Yes	8 oz Soil Jar	3	NP
21	Yes	40 ml - VOA	1	MeOH
21	Yes	40 ml - VOA	2	other
21	Yes	8 oz Soil Jar	2	NP

Completed By: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Reviewed By: \_\_\_\_\_

Date/Time: \_\_\_\_\_



Division of Thielsch Engineering, Inc.  
 185 Frances Avenue, Cranston, RI 02910-2211  
 Tel. (401) 461-7181 Fax (401) 461-4486  
 www.esslaboratory.com

Turn Time \_\_\_\_\_ Standard \_\_\_\_\_ Other \_\_\_\_\_  
 If faster than 5 days, prior approval by laboratory is required # \_\_\_\_\_  
 State where samples were collected from:  
 MA RI CT NH NJ NY ME Other \_\_\_\_\_  
 Is this project for any of the following: USACE Other \_\_\_\_\_  
 MA-MCP Navy

Reporting Limits \_\_\_\_\_ ESS LAB PROJECT ID \_\_\_\_\_  
 Electronic Deliverable Yes \_\_\_\_\_ No \_\_\_\_\_  
 Format: Excel Access PDF Other \_\_\_\_\_

Co. Name: **MACTEC** Project # \_\_\_\_\_  
 Contact Person: **Chris Ricardi** Address: **Garham Site**  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ PO#: \_\_\_\_\_  
 Telephone #: **207 775 5401** Fax #: \_\_\_\_\_

ESS LAB Sample #	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (30 Char. or less)	Pres Code	Type of Containers	Number of Containers	Type of Containers	Circle and/or Write Required Analysis
	6-22-06	0840	X	X	SP	SED2001		7	8/6/6		8081 8082 608 PCB Residues PCB 8270 PAH 8270 SVOA RCRAS RCRA8 PPI3 TAL23 TCP-KCRA8 NRC7 MCP-METALS (13) VOA PAH/PEST/PCB/Metals TOC PAH/Metals
	"	0855	X	X	SP	SED2003		5	"		X
	"	0915	X	X	SP	SED1701		7	"		X
933	"	0930	X	X	SP	SED1704		5	"		X
	"	0945	X	X	SP	SED1001		7	"		X
	"	0955	X	X	SP	SED1003		5	"		X
	"	1015	X	X	SP	SED1101		7	"		X
	"	1030	X	X	SP	SED1103		5	"		X
	"	1101	X	X	SP	SED1201		7	"		X
	"	1115	X	X	SP	SED1203		5	"		X

Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters  
 Cooler Present  Yes  No Internal Use Only  Yes  No  
 Seals Intact  Yes  No NA:  [ ] Pickup  [ ] Technicians \_\_\_\_\_  
 Cooler Temp: **3.5**

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
<i>Paula...</i>	6-22-06 1042	<i>J. David</i>	6-22-06 1642	<i>Brian Raden / Tom Hanlon</i>			

\*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A  
 Please fax all changes to Chain of Custody in writing.  
 1 (White) Lab Copy 2 (Yellow) Client Receipt



