Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

US EPA RECORDS CENTER REGION 5
1000378

7 July 1997

Mr. William Buller
U.S. EPA, Region V
RCRA Enforcement Branch (HRE-8J)
77 West Jackson Boulevard
Chicago, Illinois 60604

Work Order No. 01989-028-001

Re: TCLP Analytical Results of Soil Samples at Techalloy Company, Inc.

Dear Mr. Buller:

Roy F. Weston, Inc. (WESTON®) is providing U.S. EPA with Toxic Characteristic Leaching Procedure (TCLP) analytical results of four soil samples collected from Techalloy Company, Inc., in Union, Illinois. The sampling was conducted on 19 June 1997. The purpose of this sampling is to characterize the hazardous nature of the contaminated soils based on TCLP results for Corrective Action Management Unit (CAMU) designation. The four areas of metal impacted soils that exceeded target cleanup levels within the Techalloy facility were identified during the Phase I and Phase II RFI studies of September/October 1994 and March 1995, respectively. The concentration of metals in soils within these areas ranged from 123 to 9,110 mg/kg for chromium, 45.2 to 2,020 mg/kg for nickel, and 6.1 to 77,100 mg/kg for lead. The four areas of metal contamination and the TCLP soil sample locations are presented in Figure 1.

A summary of TCLP soil samples collected including their depths, the Solid Waste Management Unit (SWMU) area, and the detected concentration results of their TCLP analysis is presented in table below:

Sample ID	Depth (feet) bgs	SWMU	Detected analytes and their conc. in mg/L (ppm)
WWHA-01	1-2 and 5-6	Plating Wastewater Disposal Area	Barium (0.62) Chromium (0.11) Lead (1.9)
CPHA-02	2-3	Concrete Evaporation Pad Area	Barium (0.60)
HPHA-03	4-6	Holding Pond Area	Chromium (0.20) Lead (7.5*)
HPHA-04	4-6	Holding Pond Area	Chromium (0.74) Lead (13.7*)

* Indicates exceedance with respect to maximum concentration of contaminant for toxicity characteristic per 40 CFR 261.24

Based on the TCLP analysis, lead is the only metal in the soil samples that exceeds the target cleanup level of 5 mg/L. The soils therefore exhibit the characteristic of toxicity and classified as D008 EPA hazardous waste.

If you have any questions or require additional information, please do not hesitate to contact me at (847) 918-4000.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Senior Project Manager

Enclosures

CJS:sk

cc: Kevin Lesko, IEPA
Henry Lopes, Techalloy
Davis Williams, Techalloy
Scott Carr, Techalloy

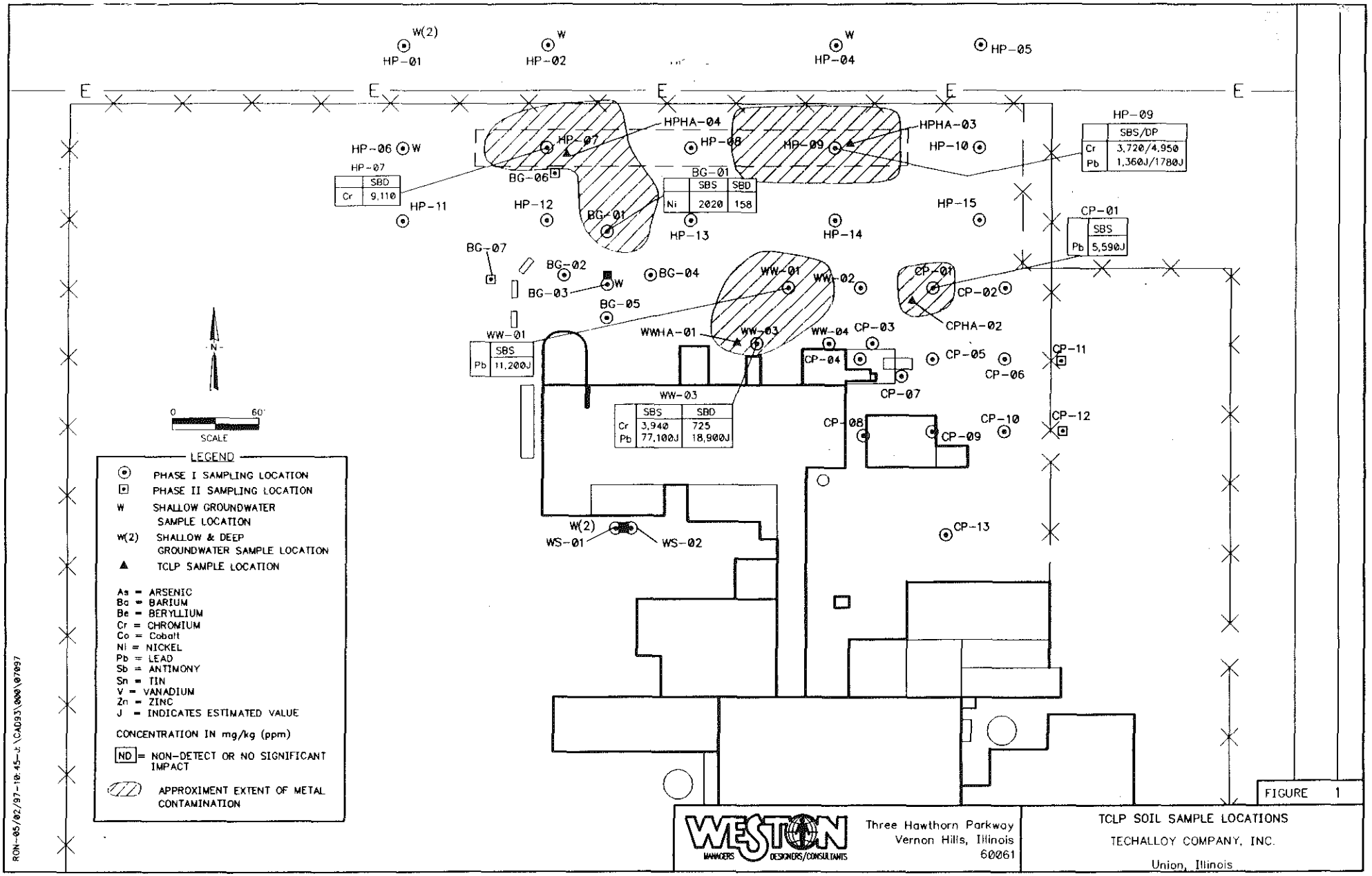

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FIGURE 1

WESTON MANAGERS DESIGNERS/CONSULTANTS

Three Hawthorn Parkway
Vernon Hills, Illinois
60061

TCLP SOIL SAMPLE LOCATIONS

TECHALLOY COMPANY, INC.

Union, Illinois

Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

7 July 1997

Mr. William Buller
U.S. EPA, Region V
RCRA Enforcement Branch (HRE-8J)
77 West Jackson Boulevard
Chicago, Illinois 60604

Work Order No. 01989-028-001

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CPHA-02	2-3	Concrete Evaporation Pad Area	Barium (0.60)
HPHA-03	4-6	Holding Pond Area	Chromium (0.20) Lead (7.5*)
HPHA-04	4-6	Holding Pond Area	Chromium (0.74) Lead (13.7*)

* Indicates exceedance with respect to maximum concentration of contaminant for toxicity characteristic per 40 CFR 261.24

Based on the TCLP analysis, lead is the only metal in the soil samples that exceeds the target cleanup level of 5 mg/L. The soils therefore exhibit the characteristic of toxicity and classified as D008 EPA hazardous waste.

If you have any questions or require additional information, please do not hesitate to contact me at (847) 918-4000.

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Senior Project Manager

Enclosures

CJS:sk

cc: Kevin Lesko, IEPA
Henry Lopes, Techalloy
Davis Williams, Techalloy
Scott Carr, Techalloy

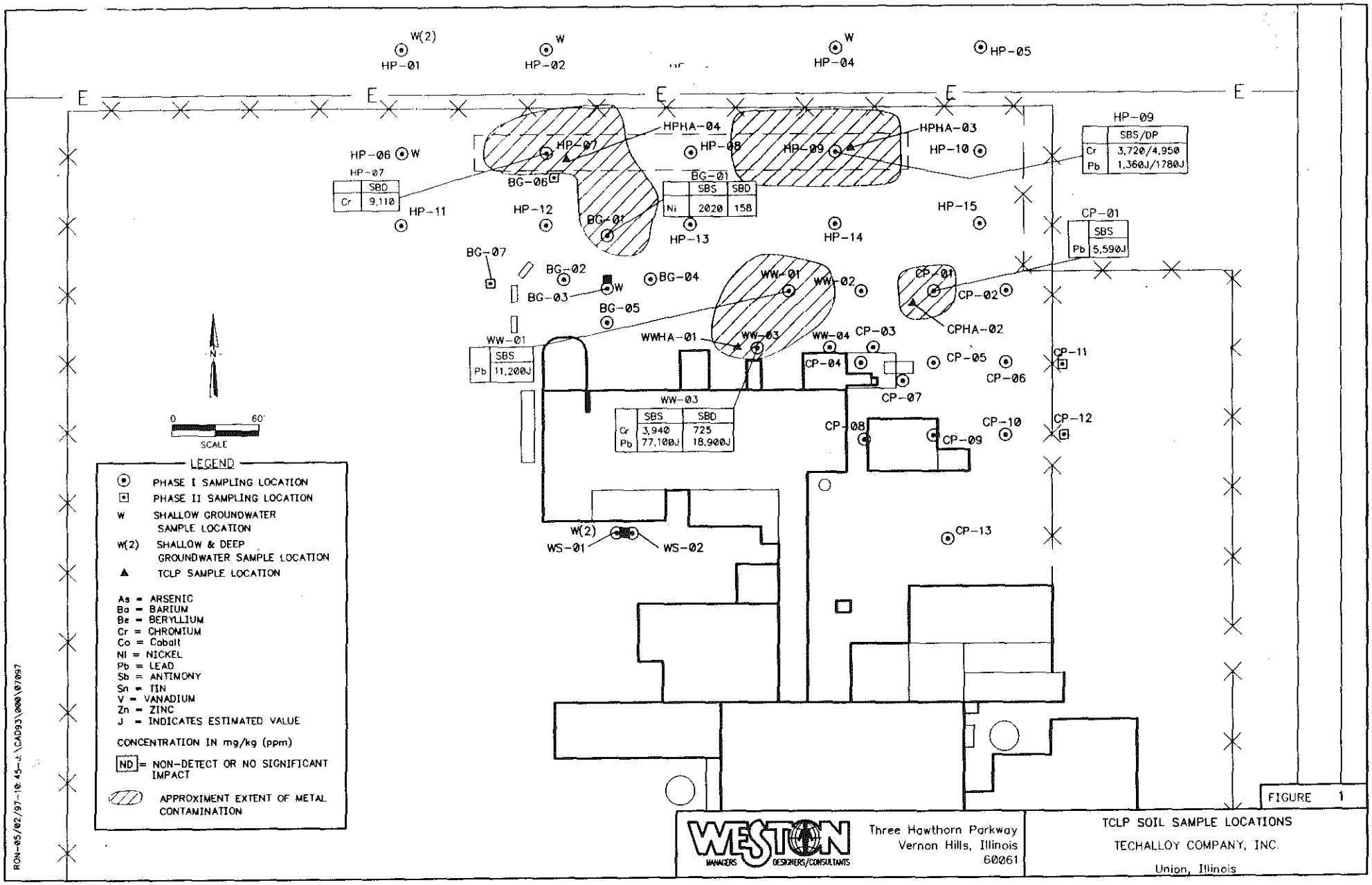

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FIGURE 1

WESTON MANAGERS DESIGNERS/CONSULTANTS

Three Hawthorn Parkway
Vernon Hills, Illinois
60061

TCLP SOIL SAMPLE LOCATIONS

TECHALLOY COMPANY, INC.

Union, Illinois

Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

24 June 1997

Mr. William Buller
U.S. EPA, Region V
RCRA Enforcement Branch (HRE-8J)
77 West Jackson Boulevard
Chicago, Illinois 60604

Work Order No. 01989-028-001

Re: Analytical Results of RFI Investigation for Techalloy Company, Inc.

Dear Mr. Buller:

Roy F. Weston, Inc. (WESTON®) is providing U.S. EPA with a copy of the analytical results as received from the laboratory for a Phase II RFI Investigation conducted for Techalloy Company, Inc., in Union, Illinois. The analytical results of the Phase I RFI Investigation conducted in September/October 1994 will be stored with WESTON (as 15 diskettes) and pursuant to our conversation today, will be forwarded to the U.S. EPA if requested at a later date.

If you have any questions or require additional information, please do not hesitate to contact me at (847) 918-4000.

Very truly yours,

ROY F. WESTON, INC.

Jameel Ahmed, P.G.
Project Geologist

Enclosures

CJS:sk

cc: Carlos Serna, WESTON

WESTON MANAGERS DESIGNERS/CONSULTANTS

SHEET 1 of 8

CLIENT/SUBJECT Pechalloy W.O. NO.

TASK DESCRIPTION Lab Batch # 9504G211 TASK NO.

PREPARED BY Linda Korobka DEPT DATE 5/23/95

MATH CHECK BY DEPT DATE

METHOD REV. BY DEPT DATE

APPROVED BY

DEPT DATE

Inorganic: Total Suspended Solids; Percent Solids

1. Samples	Lab ID	Matrix	Date Collected	Date Prep	Date Analyzed
TC2-BG06-GWS	001	water	4/9/95	4/13/95	4/13/95
TC2-BG06-GWD	003	water	4/9/95	4/13/95	4/13/95
TC2-BG07-GWS	005	water	4/9/95	4/13/95	4/13/95
TC2-BG07-GWD	007	water	4/9/95	4/13/95	4/13/95
TC2-BG06-GWS-DP	009	water	4/9/95	4/13/95	4/13/95
TC2-BG06-SBS	011	soil	4/9/95	4/11/95	4/11/95
TC2-BG06-SBD	012	soil	4/9/95	4/11/95	4/11/95
TC2-BG06-SBS-DP	013	soil	4/9/95	4/11/95	4/11/95
TC2-BG07-SBS	014	soil	4/9/95	4/11/95	4/11/95
TC2-BG07-SBD	015	soil	4/9/95	4/11/95	4/11/95

2. Holding Times

All samples were analyzed within the required holding times.

3. Blanks

The method blanks associated with these samples were free of contamination.

4 Matrix Spike

The TSS matrix spike recovery was acceptable.

5. Duplicates

all duplicate results were acceptable.

6. Laboratory Control Standard

The TSS laboratory control standard results were acceptable.

WESTON MANAGERS DESIGNERS/CONSULTANTS

CLIENT/SUBJECT Rechalloy W.O. NO.

TASK DESCRIPTION Lab Batch # 9504621I TASK NO.

PREPARED BY Linda Kobbe DEPT DATE 5/23/95

MATH CHECK BY DEPT DATE

METHOD REV. BY DEPT DATE

APPROVED BY

DEPT DATE

Inorganic: Total Metals

1. Samples	Lab ID	Matrix	Date Collected	Date Prep	Date Analyzed
TC2-BG06-GWS-TOT	001	water	4/9/95	4/11; 4/12	4/11; 4/12; 4/14
TC2-BG06-GWS-SOL	002	water	4/9/95	4/11; 4/12	4/11; 4/12; 4/14
TC2-BG06-GWD-TOT	003	water	4/9/95	4/11; 4/12	4/11; 4/12; 4/14
TC2-BG06-GWD-SOL	004	water	4/9/95	4/11; 4/12	4/11; 4/12; 4/14
TC2-BG07-GWS-TOT	005	water	4/9/95	4/11; 4/12	4/11; 4/12; 4/14
TC2-BG07-GWS-SOL	006	water	4/9/95	4/11; 4/12	4/11; 4/12; 4/14
TC2-BG07-GWD-TOT	007	water	4/9/95	4/11; 4/12	4/11; 4/12; 4/14
TC2-BG07-GWD-SOL	008	water	4/9/95	4/11; 4/12	4/11; 4/12; 4/14
TC2-BG06-GWS-DP-TOT	009	water	4/9/95	4/11; 4/12	4/11; 4/12; 4/14
TC2-BG06-GWS-DP-SOL	010	water	4/9/95	4/11; 4/12	4/11; 4/12; 4/14
TC2-BG06-SBS-TOT	011	soil	4/9/95	4/11; 4/12	4/11; 4/12; 4/14; 4/
TC2-BG06-SBD-TOT	012	soil	4/9/95	4/11; 4/12	4/11; 4/12; 4/14; 4/17; 4/
TC2-BG06-SBS-DP	013	soil	4/9/95	4/11; 4/12	4/11; 4/12; 4/14; 4/18
TC2-BG07-SBS	014	soil	4/9/95	4/11; 4/12	4/11; 4/12; 4/14; 4/18
TC2-BG07-SBD	015	soil	4/9/95	4/11; 4/12	4/11; 4/12; 4/14; 4/18; 4/

2. Holding Times

All samples were analyzed within the required holding time.

3. Blanks

Beryllium was detected in the water initial calibration blank at 0.6 ug/L. Therefore, the beryllium results in samples 001, 002, 003, 007, 008, 009 and 010 were qualified "U".

Beryllium was detected in the soil initial calibration blank at 0.5 ug/L. Therefore, the beryllium results in samples 011, 012, 014 and 015 were qualified "U".

Tin was detected in the soil preparation blank at 3.76 mg/kg. Therefore, the tin results in sample 013 were qualified "U".

Copper was detected in the soil continuing calibration

CLIENT/SUBJECT Pechaloy W.O. NO.

TASK DESCRIPTION Lab Batch # TASK NO.

PREPARED BY Linda Korolke DEPT DATE 5/25/95

MATH CHECK BY DEPT DATE

METHOD REV. BY DEPT DATE

APPROVED BY

DEPT DATE

Inorganic: Total Metals (Continued)

3. Blanks (Continued)
Blank at 9.0 µg/L. Therefore, copper results in samples 012, 014 and 015 were qualified "U".

4. Initial and Continuing Calibration Verification
All initial and continuing calibration verification results were acceptable.

5. Matrix Spike
The matrix spike recovery of antimony in soil (71.6%) was outside the QC limits. Therefore, all soil antimony results were qualified as estimated (J).

6. Duplicates
The duplicate Relative Percent Difference for zinc (49.0%) in soil was outside the QC limits. Therefore, all soil zinc results were qualified as estimated (J).

7. Laboratory Control Sample
All laboratory control sample results were acceptable.

8. ICP Serial Dilution
All ICP serial dilution results were acceptable.

CLIENT/SUBJECT Pechalloy W.O. NO.

TASK DESCRIPTION Lab Batch # 9504G211 TASK NO.

PREPARED BY Linda Korobka DEPT DATE 6/1/95

MATH CHECK BY DEPT DATE

METHOD REV. BY DEPT DATE

APPROVED BY

DEPT DATE

Volatiles

1. Samples	Lab ID	Matrix	Date Collected	Date Analyzed
TC2-BG06-GWS	001	water	4/9/95	4/20/95
TC2-BG06-GWS	001 D1	water	4/9/95	4/21/95
TC2-BG06-GWS	001 D2	water	4/9/95	4/22/95
TC2-BG06-GWD	003	water	4/9/95	4/20/95
TC2-BG07-GWS	005	water	4/9/95	4/20/95
TC2-BG07-GWS	005 D1	water	4/9/95	4/21/95
TC2-BG07-GWD	007	water	4/9/95	4/20/95
TC2-BG06-GWS-DP	009	water	4/9/95	4/20/95
TC2-BG06-GWS-DP	009 D1	water	4/9/95	4/21/95
TC2-BG06-GWS-DP	009 D2	water	4/9/95	4/22/95
TC2-BG06-SBS	011	Soil	4/9/95	4/20/95
TC2-BG06-SBD	012	Soil	4/9/95	4/23/95
TC2-BG06-SBS-DP	013	Soil	4/9/95	4/23/95
TC2-BG07-SBS	014	Soil	4/9/95	4/20/95
TC2-BG07-SBD	015	Soil	4/9/95	4/20/95

2. Holding Times

All samples were analyzed within the required holding time.

3. Blanks

Three water blanks (95GUB090-MB1, 95GVE116-MB1 and 95GUB093-MB1) were associated with these samples. All water method blanks were free of contamination. Three soil blanks (95GVF103-MB1, 95GVF109-MB1 and 95GUB092-MB1) were associated with these samples.

Acetone was detected in method blank 95GVF103-MB1 at 13 µg/kg. Acetone was also detected in method blank 95GVF109-MB1 at 9 µg/kg. As a result, the acetone result in sample TC2-BG06-SBS-DP was qualified "U".

CLIENT/SUBJECT Rechalloy W.O. NO. _____

TASK DESCRIPTION Lab Batch # 95046211 TASK NO. _____

PREPARED BY Linda Korobka DEPT _____ DATE 6/2/95

MATH CHECK BY _____ DEPT _____ DATE _____

METHOD REV. BY _____ DEPT _____ DATE _____

APPROVED BY _____ DEPT _____ DATE _____

Volatiles (Continued)

4. Surrogates

The surrogate spike recovery of 1,2-dichloroethane-d4 (121%) in sample TC2-BG06-GWS was outside the QC limits. Therefore, all volatile results for sample TC2-BG06-GWS were qualified as estimated (J).

The surrogate spike recovery of 1,2-dichloroethane-d4 (121%) in sample TC2-BG06-GWS-DP was outside the QC limits. Therefore, all volatile results for sample TC2-BG06-GWS-DP were qualified as estimated (J).

The surrogate spike recovery of 1,2-dichloroethane-d4 (0%) in sample TC2-BG06-SBS was outside the QC limits. Therefore, all volatile results except 1,1,1-trichloroethane were qualified as unusable (R).

5. Matrix Spike / Matrix Spike Duplicate

The matrix spike recoveries of 1,1-dichloroethene (55%) and trichloroethene (70%) in sample TC2-BG06-GWS were outside the QC limits. Therefore, the 1,1-dichloroethene and trichloroethene results in the unspiked sample TC2-BG06-GWS were qualified as estimated (J).

All matrix spike / matrix spike duplicate results in sample TC2-BG07-SBD were acceptable.

6. Initial and Continuing Calibration

The initial calibration file for samples 001, 003, 005, 007, 009, 014, 015, 001-DL1, 005-DL1 and 009-DL1 showed acetone (56.0% RSD), trichlorofluoromethane (53.8%), 1,1,1,2-tetrachloroethane (39.3% RSD), 1,2,3-trichloropropane (31.8%), ethyl methacrylate (30.6% RSD), and pentachloroethane (33.5% RSD) with % RSDs outside the QC limits.

The continuing calibration file for samples 001, 003, 005, 007 and 009 showed chloromethane (-38.6%D), 1,2-dichloroethane (28.4%D),

Volatiles (Continued)

6. Initial and Continuing Calibration (Continued)

and 1,1,1-trichloroethane (25.1 %D) with % differences outside the QC limits. Therefore, the chloromethane, 1,2-dichloroethane and 1,1,1-trichloroethane results in samples 001, 003, 005, 007 and 009 were qualified as estimated (J).

The continuing calibration file for samples 014 and 015 showed acetone (39.5 %D), 2-butanone (38.5 %D), propionitrile (27.0 %D), 4-methyl-2-pentanone (27.7 %D), 2-hexanone (32.1 %D) and pentachloroethane (32.9 %D) with % differences outside the QC limits. Therefore, the acetone, 2-butanone, propionitrile, 4-methyl-2-pentanone, 2-hexanone and pentachloroethane results in samples 014 and 015 were qualified as estimated (J).

The continuing calibration file for samples 001-DL, 005-DL, and 009-DL, showed acetone (45.7 %D), carbon disulfide (27.5 %D), 1,2-dichloroethene (34.6 %D), 1,1,1-trichloroethane (32.5 %D), carbon tetrachloride (28.8 %D), trans-1,3-dichloropropene (26.6 %D), 2-hexanone (28.1 %D trichlorofluoromethane (26.2 %D), and dichlorodifluoromethane (40.6 %D) with % differences outside the QC limits. Therefore, the acetone, carbon disulfide, 1,2-dichloroethene, 1,1,1-trichloroethane, carbon tetrachloride, trans-1,3-dichloropropene, 2-hexanone, trichlorofluoro methane and dichlorodifluoromethane results in samples 001-DL, 005-DL, and 009-DL, were qualified as estimated (J).

The initial calibration results for samples 001-DL$_2$ and 009-DL$_2$ were acceptable.

The continuing calibration file for samples 001-DL$_2$ and 009-DL$_2$ showed 1,1,2,2-tetrachloroethane (34.3 %D) and dichlorodifluoromethane (40.8 %D) with % differences outside the QC limits. Therefore, the 1,1,2,2-tetrachloroethane and dichlorodifluoro methane results in samples 001-DL$_2$ and 009-DL$_2$ were qualified as estimated (J).

The initial calibration file for samples - 011, 012 and 013 showed acetone (65.5 % RSD), carbon disulfide (39.4 % RSD), 2-butanone (36.6 % RSD), 4-methyl-2-pentanone (34.5 % RSD), 2-hexanone (36.1 % RSD),

CLIENT/SUBJECT Dechalloy W.O. NO.

TASK DESCRIPTION Lab Batch # 9504G211 TASK NO.

PREPARED BY Linda Korobka DEPT DATE 6/5/95

MATH CHECK BY DEPT DATE

METHOD REV. BY DEPT DATE

APPROVED BY

DEPT DATE

Volatiles (Continued)

6. Initial and Continuing Calibration (Continued)

acrylonitrile (32.1% RSD), iodomethane (40.9% RSD), propionitrile (42.1% RSD), isobutyl alcohol (49.4% RSD), 1,2-dibromo-3-chloro propane (63.9% RSD), trans-1,4-dichloro-2-butene (37.5% RSD), and pentachloroethane (82.6% RSD) with % RSDs outside the QC limits.

The continuing calibration file for sample 011 showed chloromethane (35.7%D), carbon disulfide (-48.7%D), 2-butanone (41.3%D), 4-methyl-2-pentanone (44.6%D), 2-hexanone (41.8%D), tetrachloroethene (26.6%D), acrolein (35.2%D), acrylonitrile (29.4%D), dichlorodifluoromethane (50.3%D), propionitrile (47.1%D), methacrylonitrile (31.9%D), isobutyl alcohol (43.5%D), methyl methacrylate (27.5%D), pentachloroethane (-57.2%D) and iodomethane (-30.7%D) with % differences outside the QC limits. However, all results for sample 011 except 1,1,1-trichloroethane were qualified as unusable (R) due to a very low surrogate recovery.

The continuing calibration file for samples 012 and 013 showed acetone (-67.7%D), carbon disulfide (-29.9%D), vinyl acetate (-52.2%D), bromoform (-38%D), 4-methyl-2-pentanone (-28.7%D), 2-hexanone (-36.2%D), tetrachloroethene (29.5%D), dichlorodifluoromethane (31.5%D), acetonitrile (-62.3%D), iodomethane (-32.8%D), methacrylonitrile (-36.4%D), isobutyl alcohol (-58.7%D), 1,1,1,2-tetrachloroethane (-36.9%D), 1,2,3-trichloropropane (-36.6%D), methyl methacrylate (-41.6%D), ethyl methacrylate (-27%D), pentachloroethane (-88.8%D), trans-1,4-dichloro-2-butene (-27.1%D), and 1,2-dibromo-3-chloropropane (-30.0%D) with % differences outside the QC limits. Therefore, the acetone, carbon disulfide, vinyl acetate, bromoform, 4-methyl-2-pentanone, 2-hexanone, tetrachloroethene, dichlorodifluoromethane, acetonitrile, iodomethane, methacrylonitrile, isobutyl alcohol, 1,1,1,2-tetrachloroethane, 1,2,3-trichloropropane, methyl methacrylate,

CLIENT/SUBJECT Dechalog W.O. NO.

TASK DESCRIPTION Lab Batch # 9504621 I TASK NO.

PREPARED BY Linda Krobka DEPT DATE 6/5/95

MATH CHECK BY DEPT DATE

METHOD REV. BY DEPT DATE

APPROVED BY

DEPT DATE

Volatiles (Continued)

6. Initial and Continuing Calibration (Continued)

ethyl methacrylate, pentachloroethane, trans-1,4-dichloro-2-butene, and 1,2-dibromo-3-chloropropane results in samples 012 and 013 were qualified as estimated (J).

7. Internal Standard Check

All internal standard results were acceptable.

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
708-534-5200 • Fax 708-534-5211

8 May 1995
LJK 6/5/95

Mr. Carlos Serna
Roy F. Weston, Inc.
3 Hawthorn Parkway Suite 400
Vernon Hills, IL

Work Order No. 01989-009-002-0000

RE: Techalloy
RFW Lot 9504G211

Dear Mr. Serna:

Enclosed is the Analytical Report for the Project and RFW Lot Number listed above. If you have any questions, please contact me at 708-534-5200.

Very truly yours,

Weston Environmental Metrics, Inc.

Jane D. Huber
Project Manager

sj

Enclosures

Approved By:

Michael J. Healy
Vice President/Laboratory Manager

The results presented in this report relate only to the analytical testing and condition of samples at receipt. This report pertains to only those samples actually tested. All 1045 pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

WET CHEMISTRY DATA PACKAGE
TECHALLOY
RFW# 9504G211

SECTION	PAGE
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Data Summary	08
Case Narrative	19
Quality Control Reporting Forms	22
Raw Data	28

Donna J. Stevens for Diane V. Harper
Wet Chemistry Section Manager

4-26-95
Date

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

RFW LOT # :9504G211

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC	EXT/PREP	ANALYSIS
TC2-BG06-GWS							
TOTAL SUSPENDED SOLI	001	W	95GSS070	04/09/95	04/10/95	04/13/95	04/13/95
TOTAL SUSPENDED SOLI	001 REP	W	95GSS070	04/09/95	04/10/95	04/13/95	04/13/95
TOTAL SUSPENDED SOLI	001 MS	W	95GSS070	04/09/95	04/10/95	04/13/95	04/13/95
TC2-BG06-GWD							
TOTAL SUSPENDED SOLI	003	W	95GSS070	04/09/95	04/10/95	04/13/95	04/13/95
TC2-BG07-GWS							
TOTAL SUSPENDED SOLI	005	W	95GSS070	04/09/95	04/10/95	04/13/95	04/13/95
TC2-BG07-GWD							
TOTAL SUSPENDED SOLI	007	W	95GSS070	04/09/95	04/10/95	04/13/95	04/13/95
TC2-BG06-GWS-DP							
TOTAL SUSPENDED SOLI	009	W	95GSS070	04/09/95	04/10/95	04/13/95	04/13/95
TC2-BG06-SBS							
% SOLIDS	011	S	95GTS200	04/09/95	04/10/95	04/11/95	04/11/95
TC2-BG06-SBD							
% SOLIDS	012	S	95GTS200	04/09/95	04/10/95	04/11/95	04/11/95
TC2-BG06-SBS-DP							
% SOLIDS	013	S	95GTS200	04/09/95	04/10/95	04/11/95	04/11/95
TC2-BG07-SBS							
% SOLIDS	014	S	95GTS200	04/09/95	04/10/95	04/11/95	04/11/95

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

RFW LOT # :9504G211

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC EXT/PREP	ANALYSIS
TC2-BG07-SBD						
% SOLIDS	015	S	95GTS200	04/09/95	04/10/95	04/11/95	04/11/95
% SOLIDS	015 REP	S	95GTS200	04/09/95	04/10/95	04/11/95	04/11/95
LAB QC:						
TOTAL SUSPENDED SOLI	LCS BS	W	95GSS070	N/A	N/A	04/13/95	04/13/95
TOTAL SUSPENDED SOLI	LCS BSD	W	95GSS070	N/A	N/A	04/13/95	04/13/95
TOTAL SUSPENDED SOLI	MB1	W	95GSS070	N/A	N/A	04/13/95	04/13/95
% SOLIDS	MB1	W	95GTS200	N/A	N/A	04/11/95	04/11/95

WESTON
MANAGERS DESIGNERS/CONSULTANTS

CHAIN OF CUSTODY

Custody Transfer Record/Lab Work Request

WESTON

WESTON Analytics Use Only: 9504G211

Client: Techalloy
Work Order: 01989-009-002
Date Rec'd: 4/10/95 Date Due: 4/24/95
RFW Contact: Jane Hulse
Client Contact/Phone: Carlos Serna

WA Use Only Lab ID	Client ID/Description	Matrix	Date Collected	Refrigerator#	#/Type Container	Volume	Preservative	ANALYSES REQUESTED: VOA WHN	TSS	Total Appix Metals	Sol. Appix Metals	VOA WHN	Appix Metals	%Sol	REDD
				P	CLP	CLP	CLP	P	CLP	→					
				3/G	1/P	1/P	1/P	1/G	4-oz	→					
				40ml	1-l	1-l	1-l	2-G	1/G	→					
				X		X	X								
001	TC2-BG06-GWS MS/MSD	W	4/9/95	X	X	X									X
002	" Sol. MS/MSD						X								
003	TC2-BG06-GWD			X	X	X									
004	" Sol.						X								
005	TC2-BG07-GWS			X	X	X									
006	" Sol.						X								
007	TC2-BG07-GWD			X	X	X									
008	" Sol.						X								
009	TC2-BG-06-GWS-DP			X	X	X									
010	" Sol.						X								
011	TC2-BG06-SBS	S								X	X	X			
012	" -SBD														
013	" -SBS-DP														
014	BG07-SBS														
015	" -SBD MS/MSD*									X	X	X			

Matrix: W - Water, S - Soil, SE - Sediment, SO - Solid, DS - Drum Solids, DL - Drum Liquids, O - Oil, A - Air, WI - Wipe, F - Fish, L - EP/TCLP Leachate, X - Other

Special Instructions: *rec'd 2, 2-oz jars + 1, 4-oz

QC/Del = CLP

Item/Reason	Relinquished by	Received by	Date	Time
		[illegible]	4/10/95	1245
2-10 over Metals	[illegible]	[illegible]	4/10/95	1305
1-9 add 11-15 VOAs	[illegible]	MOLley	4/10/95	16:16
1-10 over Metals	[illegible]	[illegible]	4/10/95	1845
1-15 Metals	[illegible]	[illegible]	4/11/95	0820
11-15 metals Sol'd	[illegible]	[illegible]	4/11/95	10:00

Item/Reason	Relinquished by	Received by	Date	Time
6 Solid #15	[illegible]	[illegible]	4/10/95	1040
1-10 Metals	[illegible]	[illegible]	4/12/95	1550
11-15 Hg	[illegible]	[illegible]	4/12/95	1350
11-15 Hg	[illegible]	[illegible]	4/12/95	1555
1,3,5,7,9 TSS	[illegible]	[illegible]	4/13/95	10:30
1,3,5,7,9 TSS	[illegible]	[illegible]	4-13-95	12:00

WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered
NOTES:

2 Ambient or Chilled
NOTES:

3 Received Broken/Leaking (Improperly Sealed)
Y N
NOTES:

Labels Indicate
4 Properly Preserved
Y N
NOTES: by Hex per metals lab

5 Received Within Holding Times
Y N
NOTES:

COC Tape Was:
1 Present on Outer Package Y N
2 Unbroken on Outer Package Y N
3 Present on Sample Y N
4 Unbroken on Sample Y N
NOTES:

COC Record Was:
1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N
NOTES: MM JDR ID

RFW 21-21-001/A-12/88

7-115

WESTON Analytics Use Only

9504G211

Custody Transfer Record/Lab Work Request

WESTON MANAGERS DESIGNERS/CONSULTANTS

Page 1 of 1

5

Client: Techalloy Inc
Est. Final Proj. Sampling Date: 4/9/95
Work Order #: 01989-009-002
Project Contact/Phone #: Carlos Serna / Jamal X4000
AD Project Manager:
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

Refrigerator #																		
#/Type Container	Liquid	Glass							Plastic →									
	Solid																	
Volume	Liquid																	
	Solid																	
Preservatives		HCl							Aprox			Cool						
ANALYSES REQUESTED →		ORGANIC							INORG									
		VOA	BNA	Pest/PCB	Herb				Metal	CN	Metals							

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	WESTON Analytics Use Only: *							Total		Dissolved	TSS				
001,2	TC2-BG06-GWS			W	4/9/95	1010	✓							✓		✓	✓				
003,4	TC2-BG06-GWD			W		1035	✓							✓		✓	✓				
005,6	TC2-BG07-GWS			W		1130	✓							✓		✓	✓				
007,8	TC2-BG07-GWD			W		1155	✓							✓		✓	✓				
009,10	TC2-BG07-GWS-DP			W	↓	1010	✓							✓		✓	✓				
	~~Trip Blank~~																				

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

* VOCs as per QAPP for Techalloy
* Dissolved metal have to be filtered and preserved

DATE/REVISIONS:
1.
2.
3.
4.
5. preserved w/ampules
6. supplied by client

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___ Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES: see SDR 4/10/95

filtered & pres in lab

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
Jamal	Gulf Coast	4/10/95	0930				
	P. Spaulding	4/10/95	0950				

RFW 21-21-001/A-7/91 ___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# ___ Cooler# ___ 381-596a

WESTON Analytics Use Only
95046211

Custody Transfer Record/Lab Work Request

WESTON MANAGERS DESIGNERS/CONSULTANTS

Page 1 of 1

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Client: Technology Inc.
Est. Final Proj. Sampling Date: 4/9/95
Work Order #: 01989-009-002
Project Contact/Phone #: Carlos Serna/Jamal x4002
AD Project Manager:
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

Refrigerator #																
#/Type Container	Liquid	Glass							Glass							
	Solid															
Volume	Liquid															
	Solid	2oz							4oz							
Preservatives																
ANALYSES REQUESTED →		ORGANIC							INORG							
		VOA	BNA	Pest/PCB	Herb				Metal	CN						
		WESTON Analytics Use Only														
		VOCs														

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	VOCs														
011	TC2-BG06-SBS			S	4/9/95	0935	✓							✓							
012	TC2-BG06-SBD			S	4/9/95	0945	✓							✓							
013	TC2-BG06-SBS-DP			S	4/9/95	0935	✓							✓							
014	TC2-BG07-SBS			S	4/9/95	1110	✓							✓							
015	TC2-BG07-SBD	✓	✓	S	4/9/95	1120	✓							✓							

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

DATE/REVISIONS:
1.
2.
3.
4.
5.
6.

Relinquished by	Received by	Date	Time
Jamal	Gulf Coast	4/10/95	0930
	P. Spaulding	4/10/95	0950

Relinquished by	Received by	Date	Time

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

RFW 21-21-001/A-7/91 ___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# ___ Cooler# ___ 381-596a

Sample Discrepancy Report (SDR) OP No. 21-21G-0007

WESTON

LOG / PM / SM			Send Response to:
	Initiator: [signature]	RFW # 9504G211	Name:
	Date: 4/10/95	Analyses: metals, VOC	Address:
	Client: Techalloy		
	Contact: [illegible] Jamal x4000	Matrix: Water	
	Site: Union Jamal	Prep Batch: —	
	Phone # 78 918-4000	Date Needed: 4	Phone:
	FAX # 918- ~~[illegible]~~ 4055	Project Type (circle) CLP STD Other	FAX:

Jo 12

PM / LOG — 1. Type of Sample Deficiency:

- X Sample ID Discrepancy
- ___ Client Changed Request
- ___ Received Past Hold Time
- ___ Improper Preservative
- ___ Missing Sample / Extract
- ___ Analyzed Past Hold Time
- ___ Sampler C-O-C Error
- ___ Label ID Unreadable
- ___ Include in Narrative
- ___ Improper Bottle Type
- ___ Insufficient Sample
- ___ Container Broken
- ___ Log-in Error
- ___ Date Discrepancy
- ___ Bubbles in VOAs

2. Special Problem

	Lab ID	Client ID	Test	Deficiency/Discrepancy
1.	-009, 010	COC: TC2-BG07-GWS-DP		bottles: TC2-BG06-GWS-DP
2.				
3.				
4.				
5.				
6.				
7.				
8.				

Initiator Sign: [signature] Date: 4/10/95 PM Sign: [signature] Date: 4-10-95

LOG / RG — 3. PM, RG, & SM Establish an Action Plan:

- ___ Cancel
- ___ Add
- ___ Extract & Hold
- ___ Subcontract
- ___ Analyze Past Hold Time
- ___ QC on Sample _____: Org – Inorg
- ___ Preserve in Lab then Analyze
- ___ Change Test Code to: _____
- ___ Change Due Date to: _____

4. Special Action

	Name:	Actions Required:	4. Actions Completed Initials:	Date:
1.	LOG-IN	Use BG06 ID per Jamal	[illegible]	4/10/95
2.				
3.				
4.				
5.				
6.				
7.				
8.				

RG — 5. Acknowledge receipt and acceptance of Copies:

Initials:	Date:	Initials:	Date:
1.		4.	
2.		5.	
3.		6.	

RG Signature: Date:

PM — 6. Final Approval of All Actions Taken:

Comments: X Send Copy to Client

Signature: [signature] Date: 4-10-95

7. For Quality Improvement Measurement Only:

Final Distribution – Attach original to worksheet and send a copy to QA 4/10/95

Revision Date: 1/19/94

DATA SUMMARY

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Tuesday April 25th, 1995

RE: **TC2-BG06-GWS**
Project # 01989-009-002-0000
Lab ID: **9504G211-001**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Total Suspended Solid	7	mg/L	5

L. Korabka
5/23/95

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Tuesday April 25th, 1995

RE: **TC2-BG06-GWD**
Project # 01989-009-002-0000
Lab ID: **9504G211-003**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Total Suspended Solid	1900	mg/L	5

L Wolaka 5/23/95

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
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Fax: (708) 534-5211

To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Tuesday April 25th, 1995

RE: **TC2-BG07-GWS**
Project # 01989-009-002-0000
Lab ID: **9504G211-005**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Total Suspended Solid	24	mg/L	5

L. Kowalska 5/23/95

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
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Fax: (708) 534-5211

To: Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Tuesday April 25th, 1995

RE: **TC2-BG07-GWD**
Project # 01989-009-002-0000
Lab ID: **9504G211-007**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
Total Suspended Solid	53	mg/L	5

L. Kolodka
5/23/95

WESTON
MANAGERS DESIGNERS/CONSULTANTS

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Tuesday April 25th, 1995

RE: **TC2-BG06-GWS-DP**
Project # 01989-009-002-0000
Lab ID: **9504G211-009**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Total Suspended Solid	5	U	mg/L	5

L. Korobka
5/23/95

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
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Fax: (708) 534-5211

To: Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Tuesday April 25th, 1995

RE: **TC2-BG06-SBS**
Project # 01989-009-002-0000
Lab ID: **9504G211-011**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	87.0	%	0.10

L. Kovalka 5/23/95

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
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Fax: (708) 534-5211

To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Tuesday April 25th, 1995

RE: **TC2-BG06-SBD**
Project # 01989-009-002-0000
Lab ID: **9504G211-012**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	86.3	%	0.10

L. Korobka 5/23/95

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
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Fax: (708) 534-5211

To: Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Tuesday April 25th, 1995

RE: **TC2-BG06-SBS-DP**
Project # 01989-009-002-0000
Lab ID: **9504G211-013**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	87.7	%	0.10

L. Kowalska 5/23/95

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Tuesday April 25th, 1995

RE: **TC2-BG07-SBS**
Project # 01989-009-002-0000
Lab ID: **9504G211-014**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	88.0	%	0.10

L. Korobka 5/23/95

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
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Fax: (708) 534-5211

To: Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Tuesday April 25th, 1995

RE: **TC2-BG07-SBD**
Project # 01989-009-002-0000
Lab ID: **9504G211-015**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result	Units	Reporting Limit
% Solids	96.2	%	0.10

L. Kloska 5/23/95

CASE NARRATIVE

ROY F. WESTON, INC.
ENVIRONMENTAL METRICS, INC.
WET CHEMISTRY CASE NARRATIVE

Client: Techalloy
RFW LOT: 9504G211
SDG #: CLP211

W.O. #: 01989-009-002-0000
Date Rec'd: 04/10/95

1. This narrative covers the analysis of five water and five soil samples in accordance with protocols based on the following methods:

   % Solids - Standard Methods, 17th Edition, 2540G
   Please note that the pre-oven and post-oven temperatures were not within the limits of 103 - 105 degrees Celsius.

   Total Suspended Solids - EPA Method 160.2

2. All required holding times were met. Please refer to the laboratory chronicle page of the report for a summary of the dates of analysis.

3. All method blanks were below the detection limits.

4. The LCS recoveries were within control limits.

5. All matrix duplicates were within control limits.

   The TSS matrix spike was within control limits.

Donna J. Stevens
Donna J. Stevens
Wet Chemistry Unit Leader

4-25-95
Date

INORGANIC GLOSSARY OF DATA QUALIFIERS AND ABBREVIATIONS

Inorganic Data Qualifiers

B	Result is less than the CRDL, but greater than or equal to the instrument detection limit
E	Result is estimated due to interference
M	Analyte concentrations are greater than the CRDL, and the RSD of duplicate injections was greater than 20%
N	Matrix Spike recovery was outside the control limits
S	Result was determined by the Method of Standard Additions (MSA)
T	Analyte was found in the TCLP extraction blank and sample
U	Analyte was not detected at or above the reporting limit
W	Post-digestion spike was outside 85-115% control limits, sample absorbance is less than 50% of spike absorbance
+	MSA correlation coefficient is less than 0.995
*	Duplicate analysis was outside the control limits

Abbreviations

A	Analyzed by flame A.A. direct aspiration
Batch	Identifies a specific extraction, digestion or preparation set (equivalent to Prep Batch)
BS	Blank Spike analysis was conducted on reagent grade water or a matrix free from the analyte(s) of interest
BSD	Blank Spike Duplicate
BRL	Below Reporting Limit
C	Cyanide analyte flag on CLP forms
CCV	Continuing Calibration Verification
CCB	Continuing Calibration Blank
CD	Calculation Factor used by the laboratory's Information Management System (LIMS)
CV	Analyzed by the cold vapor generation method for Mercury
Contract	Contract Laboratory Identification Code
DF	Dilution Factor
F	Analyzed by graphite furnace atomic absorption spectroscopy
ICV	Initial Calibration Verification
ICB	Initial Calibration Blank
LCS/LC	Denotes Laboratory Control Standard
LAB ID	The full 12 character WESTON Laboratory Identification Number (equivalent to RFW#)
MB	Method Blank or (PB) for Preparation Blank
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
NC	Non-calculable precision due to insufficient concentration of analyte present in the sample
NR	Not Required
NS	Not Spiked
P	Analyzed by inductively coupled argon plasma
REP	Replicate analysis
RFW#	The full 12 character WESTON Laboratory Idenficiation number (equivalent to LAB ID)
RFW Lot	The first 8 characters of the RFW#
RPD	Relative Percent Difference of duplicate analyses
X	Result obtained indirectly through calculation based on results from other analyses
WO#	Work Order No. Weston Code used to define a specific clinet, job phase and task

NOTES:

- One or a combination of these data qualifiers and abbreviations may appear in the analytical report.
- Soil, sediment and sludge results are reported on a dry weight basis except when analyzed for landfill disposal or incineration parameters. All other results on a solid matrix are reported on an "as received" basis unless noted differently.
- Reporting limits are adjusted for preparation sample size, sample dilutions, and sample moisture content if analyzed on a dry weight basis.

QUALITY CONTROL

REPORTING FORMS

FORM I B

PREPARATION BATCH REFERENCE PAGE

OTHER INORGANICS

LAB NAME: WESTON-GULF COAST LABORATORIES, INC. RFW NUMBER: 9504G211

	Analyte	Units	Prep Batch ID	Method *	Inclusive RFW Sample ID's
1	% SOLIDS	%	95GTS200	A 2540G	9504G211-011,012,013,014,015
2	TSS	MG/L	95GSS070	E 160.2	9504G211-001,003,005,007,009
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

* A - Standard Methods for the Examination of Water and Wastewater, 17th Edition
E - Methods for Chemical Analysis of Water and Wastes, 1984 Edition. 600/4--84-017
S - SW846 Test Methods for Evaluating Solid Waste, Physical Chemical Methods, USEPA Washington D.C. 3rd Edition
D - ASTM
O - Other

NOTE: On Forms IIB, IIIB, VB, VIB, and VIIB the quality control data corresponding to the above preparation batches/samples are presented on the same line as above.

FORM IIIB

BLANKS

OTHER INORGANICS

LAB NAME: WESTON-GULF COAST LABORATORIES, INC. RFW NUMBER: 9504G211

			Initial		Continuing Calibration Blanks						Preparation		Prep
Analyte	ICB/CCB Units	Det. Limit	Calib. Blank	C	1	C	2	C	3	C	Blank 1	C	Blank Units
1 % SOLIDS	%	0.1									0.1	u	%
2 TSS	MG/L	5									5	u	MG/L
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													

Control Limits: < Detection Limit

FORM V B

SPIKE SAMPLE RECOVERY

OTHER INORGANICS

LAB NAME: WESTON-GULF COAST LABORATORIES, INC. RFW NUMBER: 9504G211

	Analyte	Units	RFW Sample ID	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
1	% SOLIDS	%								
2	TSS	MG/L	9504G211-001	98		7		100	91.0%	
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										

Control Limit = 75 - 125%
Exception if (SR) > 4 X (SA)

%R = [(SSR - SR)/SA] X 100
N = Out of Control

FORM VI B

DUPLICATES

OTHER INORGANICS

LAB NAME: WESTON-GULF COAST LABORATORIES, INC. RFW NUMBER: 9504G211

	Analyte	Units	Sample ID	Sample (S)	C	Duplicate (D)	C	RPD	Q
1	% SOLIDS	%	9504G211-015	96.2		96.9		0.7%	
2	TSS	MG/L	9504G211-001	7		8		13.3%	
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									

Control Limit = 20% RPD
or +/- DL if (S) or (D) < 5 X DL

RPD = [(S-D)/((S+D)/2)] X 100
* = Out of Control
DL = Detection Limit

pH Control Limits = +/- 0.2 pH units
pH "RPD" = +/- pH units

FORM VII B

LABORATORY CONTROL SAMPLE

OTHER INORGANICS

LAB NAME: WESTON-GULF COAST LABORATORIES, INC. RFW NUMBER:9504G211

		1			2		
		Laboratory Control Sample			Laboratory Control Sample		
Analyte	Units	True	Found	%R	True	Found	%R
1 % SOLIDS	%						
2 TSS	MG/L	200	190.67	95.3%	200	193.67	96.8%
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							

%R = Found/True X 100 Control Limit = +/- 20%

pH "%R" = +/- pH units pH Control Limits = +/- 0.1 pH units

RAW DATA

Weston-Gulf Coast Laboratories, Inc.
% Sol./ % Ash / % Vol. / % Mst.

Method: Solids - 2540 G, Std. Methods 17Ed. LIMS Batch: 95GTS200

Codes:

TARE	= B
WET	= C
DRY	= A
MUFFLE	= D

Calculations:

% Solids = (A - B) / (C - B) X 100
% Ash "A" = (D - B) / (C - B) X 100
% Ash "D" = (D - B) / (A - B) X 100
% Volatiles = (A - D) / (A - B) X 100
% Moisture = 100 - % Solids

INSTRUMENT CHECKS

Control Limits: 10 +/-0.0005 g | 103-105°C | 550 +/-50°C

Balance #	Gram Wt.	Reading	Oven #	Pre Temp\Post Temp	Furnace #	Furnace Temp
253	10.0	10.0000	225	108.8°C 107.8°C		

I have verified that the weights obtained by the balance interface software match the readings from the analytical balance listed above.

Analyst Signature: [signature] Date: 4/11/95

Reviewer Signature: [signature] Date: 4/11/95

RFW	Dish	Tests	Result (%)	RPD	Weight Name	Weights (grams)	Date	Time	Analyst
95GTS200-MB1	1	I%SOL	0.0		TARE:	1.3047			
					WET:	11.6615	04/11/95	09:46:56	JL
					DRY:	1.3047	04/11/95	15:26:17	JL
9504G211-011	2	I%SOL	87.0		TARE:	1.3037			
					WET:	12.8086	04/11/95	09:48:34	JL
					DRY:	11.3146	04/11/95	15:26:41	JL
9504G211-012	3	I%SOL	86.3		TARE:	1.3016			
					WET:	12.1835	04/11/95	09:49:57	JL
					DRY:	10.6895	04/11/95	15:25:53	JL
9504G211-013	4	I%SOL	87.7		TARE:	1.3025			
					WET:	12.0793	04/11/95	09:50:47	JL
					DRY:	10.7562	04/11/95	15:29:15	JL
9504G211-014	5	I%SOL	88.0		TARE:	1.2882			
					WET:	13.1163	04/11/95	09:51:51	JL
					DRY:	11.6910	04/11/95	15:26:58	JL
9504G211-015	6	I%SOL	96.2		TARE:	1.2928			
					WET:	12.8719	04/11/95	09:52:50	JL
					DRY:	12.4356	04/11/95	15:27:16	JL

Weston-Gulf Coast Laboratories, Inc.
% Sol. / % Ash / % Vol. / % Mst.

LIMS Batch: 95GTS200

RFW	Dish	Tests	Result (%)	RPD	Weight Name	Weights (grams)	Date	Time	Analyst
9504G211-015R	7	I%SOLR	96.9	0.7	TARE:	1.2948			
					WET:	12.5598	04/11/95	09:53:57	JL
					DRY:	12.2081	04/11/95	15:27:36	JL
9504G212-001	8	I%SOL	88.5		TARE:	1.2973			
					WET:	12.4808	04/11/95	09:55:07	JL
					DRY:	11.1896	04/11/95	15:27:56	JL
9504G212-002	9	I%SOL	93.8		TARE:	1.2962			
					WET:	12.2260	04/11/95	09:57:15	JL
					DRY:	11.5455	04/11/95	15:29:35	JL
9504G212-003	10	I%SOL	59.5		TARE:	1.2965			
					WET:	12.7227	04/11/95	09:58:12	JL
					DRY:	8.0922	04/11/95	15:29:57	JL
9504G212-004	11	I%SOL	55.1		TARE:	1.3006			
					WET:	14.5942	04/11/95	10:01:34	JL
					DRY:	8.6197	04/11/95	15:28:23	JL
9504G212-005	12	I%SOL	94.0		TARE:	1.2980			
					WET:	14.1145	04/11/95	10:02:42	JL
					DRY:	13.3470	04/11/95	15:28:50	JL
9504G212-006	13	I%SOL	82.6		TARE:	1.3011			
					WET:	13.7053	04/11/95	10:04:54	JL
					DRY:	11.5493	04/11/95	15:30:43	JL
9504G212-007	14	I%SOL	87.0		TARE:	1.3003			
					WET:	14.2932	04/11/95	10:06:09	JL
					DRY:	12.6041	04/11/95	15:31:09	JL
9504G212-008	15	I%SOL	83.0		TARE:	1.2992			
					WET:	13.9010	04/11/95	10:07:08	JL
					DRY:	11.7596	04/11/95	15:30:19	JL

*** End of % Solids Report ***

XENCO Environmental Metrics, Inc

Date of Prep: 04/13/95
Date of Analysis: 04/13/95
Filename: 955070 Prep Batch: 95655070
Test: ITSS Method: E 160.2
Directory: INORGANICS Analyst: DLH
Instrument: BALANCE

RFW SAMPLE ID	TEST	TARE	REAGENT RESIDUE	VOL MLS	WT. DIFF	FINAL RESULT	DETECTION LIMIT 5.00	UNITS MG/L	REPLICATE DRIG SAMPLE RESULT	REP % DIFF	SPIKE/LCS SPIKE 100.00 LCS 200.00	SAMPLE SPIKE AMOUNT	% RECOV	PREP BATCH
95655070-MB1	ITSS	22.5916	22.5915	300.0	-0.0001	-0.33 u	5.00	MG/L						95655070
95655070-LCS	ITSS-S	24.9858	25.0430	300.0	0.0572	190.67	5.00	MG/L	0.000		200.00	200.00	95.3	95655070
95655070-LCS	ITSS-T	24.9616	25.0197	300.0	0.0581	193.67	5.00	MG/L	0.000	1.6	200.00	200.00	96.8	95655070
95046133-016	ITSS-R	25.0755	25.0761	100.0	0.0006	6.00	5.00	MG/L	0.000	200.0				95655070
95046133-016	ITSS-T	25.1527	25.1629	100.0	0.0102	102.00	5.00	MG/L	0.000	33.5	100.00	100.00	102.0	95655070
95046133-017	ITSS	25.3163	25.3171	200.0	0.0008	4.00 u	5.00	MG/L						95655070
95046133-018	ITSS	22.4858	22.4866	100.0	0.0008	8.00	5.00	MG/L						95655070
95046181-001	ITSS	24.9231	24.9256	3.0	0.0025	833.33	5.00	MG/L						95655070
95046186-001	ITSS	24.5624	24.5622	100.0	-0.0002	-2.00 u	5.00	MG/L						95655070
95046225-002	ITSS	24.4640	24.4642	200.0	0.0002	1.00 u	5.00	MG/L						95655070
95046202-001	ITSS	26.7658	26.7701	3.0	0.0043	1433.33	5.00	MG/L						95655070
95046225-004	ITSS	24.9630	24.9631	200.0	0.0001	0.50 u	5.00	MG/L						95655070
95046225-005	ITSS	23.5403	23.5403	200.0	0.0000	0.00 u	5.00	MG/L						95655070
95046225-006	ITSS	22.1884	22.1954	100.0	0.0070	70.00	5.00	MG/L						95655070
95046206-001	ITSS	25.1225	25.1310	3.0	0.0035	1166.67	5.00	MG/L						95655070
95046211-001	ITSS	25.4035	25.4042	100.0	0.0007	7.00	5.00	MG/L						95655070
95046211-001	ITSS-R	22.3031	22.3039	100.0	0.0008	8.00	5.00	MG/L	7.000	13.3				95655070
95046211-001	ITSS-S	21.6314	21.6412	100.0	0.0098	98.00	5.00	MG/L	7.000		100.00	100.00	91.0	95655070
95046211-003	ITSS	23.1116	23.1505	20.0	0.0389	1945.00	5.00	MG/L						95655070
95046211-005	ITSS	24.6238	24.6286	200.0	0.0048	24.00	5.00	MG/L						95655070
95046211-007	ITSS	23.2161	23.2267	200.0	0.0106	53.00	5.00	MG/L						95655070
95046211-009	ITSS	23.1764	23.1774	200.0	0.0010	5.00 u	5.00	MG/L						95655070
95046225-008	ITSS	26.7521	26.7526	200.0	0.0005	2.50 u	5.00	MG/L						95655070
95046225-009	ITSS	26.5990	26.6000	200.0	0.0010	5.00	5.00	MG/L						95655070
95046225-010	ITSS	24.5738	24.5760	100.0	0.0022	22.00	5.00	MG/L						95655070
95046225-010	ITSS-R	24.7277	24.7300	100.0	0.0023	23.00	5.00	MG/L	22.000	4.4				95655070
95046225-010	ITSS-S	23.9174	23.9293	100.0	0.0119	119.00	5.00	MG/L	22.000		100.00	100.00	97.0	95655070
95046225-012	ITSS	22.7507	22.7567	200.0	0.0060	30.00	5.00	MG/L						95655070

Judith Bullock 4-13-95

ok Donna J. Stevens 4-13-95

OP No. 21-21G-1503

Circle Method Used:
TSS a. EPA 160.2 b. SM 2540D
VSS c. EPA 160.4 d. SM 2540E

WESTON-Gulf Coast, Inc.
ITSS / IVSS

Page # 136
Book # 1716
LIMS Batch ID # 95655070
Filename: 655070

Oven #: 614
Temp. IN 103 C
Temp. OUT 103 C
Balance # 583
Dessicator # 1

Muffle Furnace #
Furnace Temp. C

Calculations:
TSS mg/L = (A - B) / C x 1000000
TSS mg/L = (gross (g) - tare (g)) / vol (ml) x 1000000
VSS mg/L = (A - D) / C x 1000000

A = Petri Dish & Dry Residue Wt. (g)
B = Petri Dish Tare Wt. (g)
C = Sample Volume
D = Petri Dish + Residue after ignition (g)

	RFW #	Cruc. I.D.	Sample Volume C (mls)	Tare B (g)	1st A (g)	2nd A (g)	D (g)	VSS Result mg/L	TSS Result mg/L	% Rec RPD	
MB1	95655070	42	300	22.5916	22.5915	22.5915			-0.33	<5	MB1
LCS1		AW	300	24.9858	25.0432	25.0430			190.67	95.3%	LCS1
LCS2		10	300	24.9616	25.0199	25.0197			193.67	96.8%	LCS2
*1	95046133-016R	51	100	25.0755	25.0760	25.0761			6.0	NC	1
*2	016T	37	100	25.1527	25.1630	25.1629			102.0	102.0%	2
3	-017	OR pink	200	25.3163	25.3173	25.3171			4.0		3
4	-018	25	100	22.4858	22.4866	22.4866	95-1395		8.0		4
5	181-001	Blk	3	24.9231	24.9259	24.9256			833.33		5
6	186-001	24	100	24.5624	24.5626	24.5622			-2.0		6
7	225-002	1	200	24.4640	24.4644	24.4642			1.0		7
8	202-001	6	3	26.7658	26.7703	26.7701			1433.33		
9	225-004	20	200	24.9630	24.9634	24.9631			0.5		
10	-005	36	200	23.5403	23.5403	23.5403			0.0		10
11	-006	34/pink	100	22.1884	22.1956	22.1954			70.0		11
12	206-001	01	3	25.1275	25.1310	25.1310			1166.67		12
13	211-001	11	100	25.4035	25.4043	25.4042			7.0		13
14	-001R	15	100	22.3031	22.3040	22.3039			8.0	13.3%	14
15	-001S	08	100	21.6314	21.6413	21.6412			98.0	91.0%	15
16	-003	41	20	23.1116	23.1506	23.1505			1945.0		16
17	-005	27	200	24.6238	24.6289	24.6286			24.0		17
18	-007	C44	200	23.2161	23.2269	23.2267			53.0		18
19	-009	33	200	23.1764	23.1774	23.1774			5.0		19
20	225-008	06	200	26.7521	26.7528	26.7526			2.5		20
	-009	01	200	26.5990	26.6000	26.6000			5.0		
	-010	01	100	24.5738	24.5761	24.5760			22.0		

* Original analysis p.135

Standards Traceability: Standard Solutions are prepared on a daily basis.

Stock Soln. I ID # (LCS) 1292-5-2 Stock Soln. II ID # (MS) 1292-5-9-5

Spiking Levels (mg/L): LCS = 200 MS = 100

Analyst Signature: Diane L Harper Date: 4/13/95

Reviewer Signature: Donna J. Stevens Date: 4/13/95

SAMPLE DIGESTION RECORD

Sheet No:1 OF 1

Digestion Date: 04/11/95 Digestion Batch No: 95GF768 Analyst: ED Client: TECHALLOY

Completion Date: 04/11/95 Type of Prep.: AA Method: 3050CLP Matrix: SOIL

Parameters: AS,SE,PB,TL
Type of Analysis: TOTAL

Sample No:	Initial WT/VOL	Final VOL	Spike Mult.	pH <2>	% Solids	C/D FACTOR	Parameters
95046211							
011	1.2	200		<		166.6667	
012	1.26	200		<		158.7302	
013	1.4	200		<		142.8571	
014	1.14	200		<		175.4386	
015	1.06	200		<		188.6792	
015 R	1.11	200		<		180.1802	
015 S	1.36	200	1	<		147.0588	
95GF768-MB1	1	200		<	100.00	0.2000	
95GF768-LCS L	1	200	1	<	100.00	0.2000	

Not updated
waiting for % solids
Chain of custody purpose only

DIGESTION CUSTODY SHEET

Extracts Transferred	Relinquished By	Date Time	Received by	Relinquished By	Date	Time	Received By
All	[signature]	4/11 15:00	[signature]				
	[signature]	Marlos 1050	[signature]				

SAMPLE DIGESTION RECORD

Sheet No:1 OF 1

Digestion Date: 04/11/95 Digestion Batch No: 956F767 Analyst: ED Client: TECHALLOY

Completion Date: 04/11/95 Type of Prep.: AA Method: 3020CLP Matrix: WATER

Parameters: AS,SE,PB,TL
Type of Analysis: SOLUBLE

Sample No:	Initial WT/VOL	Final VOL	Spike Mult.	pH (2)	% Solids	C/D FACTOR	Parameters
95046211							
002	50	50		<		1.0000	
002 R	50	50		<		1.0000	
002 S	50	50	1	<		1.0000	
004	50	50		<		1.0000	
006	50	50		<		1.0000	
008	50	50		<		1.0000	
010	50	50		<		1.0000	

02

OK 4/11/95

DIGESTION CUSTODY SHEET

Extracts Transferred	Relinquished By	Date Time	Received By	Relinquished By	Date	Time	Received By

Updated 4/11/95

23

SAMPLE DIGESTION RECORD

Sheet No:1 OF 1

Digestion Date: 04/11/95 Digestion Batch No: 95GF767 Analyst: ED Client: TECHALLOY

Completion Date: 04/11/95 Type of Prep.: AA Method: 3020CLP Matrix: WATER

Parameters: AS,SE,PB,TL
Type of Analysis: TOTAL

Sample No:	Initial WT/VOL	Final VOL	Spike Mult.	pH <2>	% Solids	C/D FACTOR	Parameters
9504G211							
001	50	50		<		1.0000	
001 R	50	50		<		1.0000	
001 S	50	50	1	<		1.0000	
003	50	50		<		1.0000	
005	50	50		<		1.0000	
007	50	50		<		1.0000	
009	50	50		<		1.0000	
95GF767-MB1	50	50		<		1.0000	
95GF767-LC1 L	50	50	1	<		1.0000	

Updated gr 4/11/95

01

DIGESTION CUSTODY SHEET

Extracts Transferred	Relinquished By	Date Time	Received By	Relinquished By	Date	Time	Received By
		4/11 14:50					
		4/11/95					

SAMPLE DIGESTION RECORD

Sheet No:1 OF 1

OK BH 4/12/95

Digestion Date: 04/12/95 Digestion Batch No: 95GI601 Analyst: ED Client: TECHALLOY

Completion Date: 04/12/95 Type of Prep.: ICP Method: 3010CLP Matrix: WATER

Parameters: AG,BA,BE,CD,CO,CR,CU,NI,SB,SN,V-,ZN
Type of Analysis: TOTAL

Sample No:	Initial WT/VOL	Final VOL	Spike Mult.	pH (2)	% Solids	C/D FACTOR	Parameters
95046211							
001	50	50		<		1.0000	
001 R	50	50		<		1.0000	
001 S	50	50	1	<		1.0000	
003	50	50		<		1.0000	
005	50	50		<		1.0000	
007	50	50		<		1.0000	
009	50	50		<		1.0000	
95GI601-MB1	50	50		<		1.0000	
95GI601-LCS L	50	50	1	<		1.0000	

02

Updated N.V.C 4/11/95

DIGESTION CUSTODY SHEET

Extracts Transferred	Relinquished By	Date Time	Received By	Relinquished By	Date	Time	Received By

SAMPLE DIGESTION RECORD

Sheet No:1 OF 1

OK BH 4/12/95

Digestion Date: 04/12/95 Digestion Batch No: 9561601 Analyst: ED Client: TECHALLOY

Completion Date: 04/12/95 Type of Prep.: ICP Method: 3010CLP Matrix: WATER

Parameters: AG,BA,BE,CD,CO,CR,CU,NI,SB,SN,V-,ZN
Type of Analysis: SOLUBLE

Sample No:	Initial WT/VOL	Final VOL	Spike Mult.	pH (2)	% Solids	C/D FACTOR	Parameters
95046211							
002	50	50				1.0000	
002 R	50	50				1.0000	
002 S	50	50	1			1.0000	
004	50	50				1.0000	
006	50	50				1.0000	
008	50	50				1.0000	
010	50	50				1.0000	

01

Updated AV.C 4/12/95

DIGESTION CUSTODY SHEET

Extracts Transferred	Relinquished By	Date Time	Received By	Relinquished By	Date	Time	Received By
		4/12/95 1500					
		4/13/95 1600					

18

SAMPLE DIGESTION RECORD

Sheet No:1 OF 1

Digestion Date: 04/11/95 Digestion Batch No: 9561598 Analyst: ED Client: TECHALLOY

Completion Date: 04/11/95 Type of Prep.: ICP Method: 3050CLP Matrix: SOIL

Parameters: AG,BA,BE,CD,CO,CR,CU,NI,SB,SN,V-,ZN
Type of Analysis: TOTAL

Sample No:	Initial WT/VOL	Final VOL	Spike Mult.	pH (2)	% Solids	C/D FACTOR	Parameters
95046211							
011	1.32	200		<		151.5152	
012	1.32	200		<		151.5152	
013	1.17	200		<		176.9912	
014	1.35	200		<		148.1481	
015	1.05	200		<		190.4762	
015 R	1.14	200		<		175.4386	
015 S	1.08	200	1	<		185.1852	
95GF768-MB1	1	200		<	100.00	0.2000	
95GF768-LC1 L	1	200	1	<	100.00	0.2000	

Not updated
waiting for % solids
chain of custody purpose only

DIGESTION CUSTODY SHEET

Extracts Transferred	Relinquished By	Date Time	Received By	Reliquished By	Date	Time	Received By
	[illegible] 1600		[illegible]				
	[illegible] 4/12/95		[illegible]				

LOG PM SM			
Initiator: [signature]	RFW # 9504G211	Name:	
Date: 4/10/95	Analyses: metals, VOC	Address:	
Client: Techalloy			
Contact: [illegible] Jamal x4100	Matrix: Water		
Site: Union Jamal	Prep Batch: —		
Phone # 78 918-4000	Date Needed: 4	Phone:	
FAX # 918- ~~[illegible]~~ 4055		FAX:	
	Project Type (circle) CLP STD Other		

PM LOG

1. Type of Sample Deficiency:

- X Sample ID Discrepancy
- ___ Client Changed Request
- ___ Received Past Hold Time
- ___ Improper Preservative
- ___ Missing Sample / Extract
- ___ Analyzed Past Hold Time
- ___ Sampler C-O-C Error
- ___ Label ID Unreadable
- ___ Include in Narrative
- ___ Improper Bottle Type
- ___ Insufficient Sample
- ___ Container Broke
- ___ Log-in Error
- ___ Date Discrepanc
- ___ Bubbles in VOA

2. Special Problem

	Lab ID	Client ID	Test	Deficiency/Discrepancy
1.	-009, 010	COC: TC2-BG07-GWS-DP	bottles: TC2-BG06-GWS-DP	
2.				
3.				
4.				
5.				
6.				
7.				
8.				

Initiator Sign: [signature] Date: 4/10/95 PM Sign: [signature] Date: 4-10-95

LOG RG

3. PM, RG, & SM Establish an Action Plan:

- ___ Cancel ___ Add
- ___ Extract & Hold
- ___ Subcontract
- ___ Analyze Past Hold Time
- ___ QC on Sample _____: Org – Inorg
- ___ Preserve in Lab then Analyze
- ___ Change Test Code to: _____
- ___ Change Due Date to: _____

4. Special Action

Name:	Actions Required:	4. Actions Complete Initials:	Date:
1. LOG-IN	Use BG06 ID per Janeel	[illegible]	4/10/95
2.			
3.			
4.			
5.			
6.			
7.			
8.			

RG

5. Acknowledge receipt and acceptance of Copies:

Initials:	Date:	Initials:	Date:
1.		4.	
2.		5.	
3.		6.	

RG Signature: Date:

PM

6. Final Approval of All Actions Taken:

Comments: X Send Copy to Client

Signature: [signature] Date: 4-10-9

7. For Quality Improvement Measurement Only:

Final Distribution – Attach original to worksheet and send a copy to QA 4/10/95 [initials]

Revision Date: 1/19/94

WESTON Analytics Use Only

9504G211

Custody Transfer Record/Lab Work Request

WESTON

Page 1 of 1

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Client: Techalloy Inc.
Est. Final Proj. Sampling Date: 4/9/95
Work Order #: 01989-009-002
Project Contact/Phone #: Carlos Serna/Tunnel x4000
AD Project Manager:
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

Refrigerator #																	
#/Type Container	Liquid	Glass							Glass								
	Solid																
Volume	Liquid																
	Solid	2oz							4oz								
Preservatives																	
ANALYSES REQUESTED →		ORGANIC							INORG								
		VOA	BNA	Pest/PCB	Herb				Metal	CN							

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	VOCs														
011	TC2-BG06-SBS			S	4/9/95	0935	✓							✓							
012	TC2-BG06-SBD			S	4/9/95	0945	✓							✓							
013	TC2-BG06-SBS-DP			S	4/9/95	0935	✓							✓							
014	TC2-BG07-SBS			S	4/9/95	1110	✓							✓							
015	TC2-BG07-SBD	✓	✓	S	4/9/95	1120	✓							✓							

WESTON Analytics Use Only

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

DATE/REVISIONS:
1.
2.
3.
4.
5.
6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___ Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
[signature]	Gulf Coast	4/10/95	0930				
	P. Spaulding	4/10/95	0950				

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

WESTON Analytics Use Only

9504G211

Custody Transfer Record/Lab Work Request

WESTON MANAGERS DESIGNERS/CONSULTANTS

Page 1 of 1

Client: Techalloy Inc
Est. Final Proj. Sampling Date: 4/9/95
Work Order #: 01989-009-002
Project Contact/Phone #: Carlos Serna / Jamal X4000
AD Project Manager:
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

Refrigerator #																							
#/Type Container	Liquid	Glass												Plastic →									
	Solid																						
Volume	Liquid																						
	Solid																						
Preservatives		HCl												HNO3			Cool						
ANALYSES REQUESTED →		ORGANIC												INORG									
		VOA	BNA	Pest/PCB	Herb									Metal	CN	Metals							

WESTON Analytics Use Only

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	*							Total		Dissolved	TSS				
001,2	TC2-BG06-GWS			W	4/9/95	1010	✓							✓		✓	✓				
003,4	TC2-BG06-GWD			W		1035	✓							✓		✓	✓				
005,6	TC2-BG07-GWS			W		1130	✓							✓		✓	✓				
007,8	TC2-BG07-GWD			W		1155	✓							✓		✓	✓				
009,10	TC2-BG07-GWS-DP			W	↓	1010	✓							✓		✓	✓				
	~~Trip Bla~~																				

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

* VOCs as per QAPP for Techalloy
* Dissolved metal have to be filtered and preserved

DATE/REVISIONS:
1.
2.
3.
4.
5. preserved w/ampules
6. supplied by client

filtered upon in lab

Relinquished by	Received by	Date	Time	Relinquished by	Received by	Date	Time
Jamal	Gulf Coast	4/10/95	0930				
	P. Sarah	4/10/95	0950				

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES: [illegible] 4/10/95

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ✓
Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

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Custody Transfer Record/Lab Work Request

WESTON

WESTON Analytics Use Only

9504G211

Client: Techalloy
Work Order: 01989.009.002
Date Rec'd: 4/10/95 Date Due: 4/24/95
RFW Contact: Jane Huber
Client Contact/Phone: Carlos Serna

Refrigerator#				P	CLP	CLP	CLP	P	CLP	→		
#/Type Container				3/G	1/P	1/P	1/P	1/G	4-oz	→		
Volume				40ml	1-l	1-l	1-l	2-oz	1/G	→		
Preservative				X		X	X					
ANALYSES REQUESTED →				VOA 624N	TSS	Total APPIX Metals	Sol. APPIX Metals	VOA 624N	APPIX Metals	% Sol	REDD	
WA Use Only Lab ID	Client ID/Description	Matrix	Date Collected									
001	TC2-BG06-GWS MS/MSD	W	4/9/95	X	X	X					X	
002	Sol. MS/MSD						X					
003	TC2-BG06-GWD			X	X	X						
004	Sol.						X					
005	TC2-BG07-GWS			X	X	X						
006	Sol.						X					
007	TC2-BG07-GWD			X	X	X						
008	Sol.						X					
009	TC2-BG06-GWS-DP			X	X	X						
010	Sol.						X					
011	TC2-BG06-SBS	S						X	X	X		
012	-SBD											
013	-SBS-DP											
014	BG07-SBS											
015	-SBD MS/MSD*											

Matrix: S - Soil, SE - Sediment, SO - Solid, W - Water, O - Oil, A - Air, WI - Wipe, DS - Drum Solids, DL - Drum Liquids, F - Fish, L - EP/TCLP Leachate, X - Other

Special Instructions: *rec'd 2, 2-oz jars + 1, 4-oz

QC/Del = CLP

Item/Reason	Relinquished by	Received by	Date	Time	Item/Reason	Relinquished by	Received by	Date	Time
		[illegible]	4/10/95	1245	2/6 Solid #15	[illegible]	[illegible]	4/11/95	1040
2-10 [illegible] Metals	[illegible]	[illegible]	4/10/95	1305	1-10 Metals	[illegible]	[illegible]	4/12/95	1350
1-9 odd 11-15 VOAs	L. Heine	McCiley	4/10/95	1600	11-15 Hg	[illegible]	[illegible]	4/12/95	1350
1-10 even Metals	R. Dovric	[illegible]	4/10/95	1845	11-15 Hg	[illegible]	[illegible]	4/12/95	1555
1-15 Metals	[illegible]	[illegible]	4/11/95	1820	1,3,5,7,9 TSS	L. Heine	[illegible]	4/13/95	10:30
11-15 metals/% solid	[illegible]	[illegible]	4/11/95	10:00	1,3,5,7,9 TSS	[illegible]	L. Heine	4/13/95	12:00

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Samples Were:
1 Shipped or Hand-Delivered
NOTES:

2 Ambient or Chilled
NOTES:

3 Received Broken/Leaking (Improperly Sealed)
Y N
NOTES:

Labels Indicate
4 Properly Preserved
Y N
NOTES:
filter + pres metals in lab

5 Received Within Holding Times
Y N
NOTES:

COC Tape Was:
1 Present on Outer Package Y N
2 Unbroken on Outer Package Y N
3 Present on Sample Y N
4 Unbroken on Sample Y N
NOTES:

COC Record Was:
1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N
NOTES:
All JDR ID

RFW 21-21-001/A-12/88

7-115

CHAIN OF CUSTODY

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

RFW LOT # :9504G211

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC	EXT/PREP	ANALYSIS
NICKEL, TOTAL	015 MS	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
LEAD, TOTAL	015	S	95GF768	04/09/95	04/10/95	04/11/95	04/18/95
LEAD, TOTAL	015 REP	S	95GF768	04/09/95	04/10/95	04/11/95	04/19/95
LEAD, TOTAL	015 MS	S	95GF768	04/09/95	04/10/95	04/11/95	04/18/95
ANTIMONY, SERIAL DIL	015 L	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
ANTIMONY, TOTAL	015	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
ANTIMONY, TOTAL	015 REP	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
ANTIMONY, TOTAL	015 MS	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
SELENIUM, TOTAL	015	S	95GF768	04/09/95	04/10/95	04/11/95	04/12/95
SELENIUM, TOTAL	015 REP	S	95GF768	04/09/95	04/10/95	04/11/95	04/12/95
SELENIUM, TOTAL	015 MS	S	95GF768	04/09/95	04/10/95	04/11/95	04/12/95
Tin, Serial Dilution	015 L	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
TIN, TOTAL	015	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
TIN, TOTAL	015 REP	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
TIN, TOTAL	015 MS	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
THALLIUM, TOTAL	015	S	95GF768	04/09/95	04/10/95	04/11/95	04/11/95
THALLIUM, TOTAL	015 REP	S	95GF768	04/09/95	04/10/95	04/11/95	04/11/95
THALLIUM, TOTAL	015 MS	S	95GF768	04/09/95	04/10/95	04/11/95	04/11/95
VANADIUM, SERIAL DIL	015 L	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
VANADIUM, TOTAL	015	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
VANADIUM, TOTAL	015 REP	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
VANADIUM, TOTAL	015 MS	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
ZINC, SERIAL DILUTIO	015 L	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
ZINC, TOTAL	015	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
ZINC, TOTAL	015 REP	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
ZINC, TOTAL	015 MS	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

RFW LOT # :9504G211

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC	EXT/PREP	ANALYSIS
TC2-BG07-SBD							
SILVER, SERIAL DILUT	015 L	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
SILVER, TOTAL	015	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
SILVER, TOTAL	015 REP	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
SILVER, TOTAL	015 MS	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
ARSENIC, TOTAL	015	S	95GF768	04/09/95	04/10/95	04/11/95	04/14/95
ARSENIC, TOTAL	015 REP	S	95GF768	04/09/95	04/10/95	04/11/95	04/14/95
ARSENIC, TOTAL	015 MS	S	95GF768	04/09/95	04/10/95	04/11/95	04/11/95
BARIUM, SERIAL DILUT	015 L	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
BARIUM, TOTAL	015	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
BARIUM, TOTAL	015 REP	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
BARIUM, TOTAL	015 MS	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
BERYLLIUM, SERIAL DI	015 L	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
BERYLLIUM, TOTAL	015	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
BERYLLIUM, TOTAL	015 REP	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
BERYLLIUM, TOTAL	015 MS	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
CADMIUM, SERIAL DILU	015 L	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
CADMIUM, TOTAL	015	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
CADMIUM, TOTAL	015 REP	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
CADMIUM, TOTAL	015 MS	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
COBALT, SERIAL DILUT	015 L	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
COBALT, TOTAL	015	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
COBALT, TOTAL	015 REP	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
COBALT, TOTAL	015 MS	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
CHROMIUM, SERIAL DIL	015 L	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
CHROMIUM, TOTAL	015	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
CHROMIUM, TOTAL	015 REP	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
CHROMIUM, TOTAL	015 MS	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
COPPER, SERIAL DILUT	015 L	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
COPPER, TOTAL	015	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
COPPER, TOTAL	015 REP	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
COPPER, TOTAL	015 MS	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
MERCURY, TOTAL	015	S	95HG217	04/09/95	04/10/95	04/12/95	04/12/95
MERCURY, TOTAL	015 REP	S	95HG217	04/09/95	04/10/95	04/12/95	04/12/95
MERCURY, TOTAL	015 MS	S	95HG217	04/09/95	04/10/95	04/12/95	04/12/95
NICKEL, SERIAL DILUT	015 L	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
NICKEL, TOTAL	015	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
NICKEL, TOTAL	015 REP	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

RFW LOT # :9504G211

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC	EXT/PREP	ANALYSIS
TC2-BG06-SBS-DP							
SILVER, TOTAL	013	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
ARSENIC, TOTAL	013	S	95GF768	04/09/95	04/10/95	04/11/95	04/11/95
BARIUM, TOTAL	013	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
BERYLLIUM, TOTAL	013	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
CADMIUM, TOTAL	013	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
COBALT, TOTAL	013	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
CHROMIUM, TOTAL	013	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
COPPER, TOTAL	013	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
MERCURY, TOTAL	013	S	95HG217	04/09/95	04/10/95	04/12/95	04/12/95
NICKEL, TOTAL	013	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
LEAD, TOTAL	013	S	95GF768	04/09/95	04/10/95	04/11/95	04/18/95
ANTIMONY, TOTAL	013	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
SELENIUM, TOTAL	013	S	95GF768	04/09/95	04/10/95	04/11/95	04/12/95
TIN, TOTAL	013	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
THALLIUM, TOTAL	013	S	95GF768	04/09/95	04/10/95	04/11/95	04/11/95
VANADIUM, TOTAL	013	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
ZINC, TOTAL	013	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
TC2-BG07-SBS							
SILVER, TOTAL	014	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
ARSENIC, TOTAL	014	S	95GF768	04/09/95	04/10/95	04/11/95	04/11/95
BARIUM, TOTAL	014	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
BERYLLIUM, TOTAL	014	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
CADMIUM, TOTAL	014	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
COBALT, TOTAL	014	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
CHROMIUM, TOTAL	014	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
COPPER, TOTAL	014	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
MERCURY, TOTAL	014	S	95HG217	04/09/95	04/10/95	04/12/95	04/12/95
NICKEL, TOTAL	014	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
LEAD, TOTAL	014	S	95GF768	04/09/95	04/10/95	04/11/95	04/18/95
ANTIMONY, TOTAL	014	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
SELENIUM, TOTAL	014	S	95GF768	04/09/95	04/10/95	04/11/95	04/12/95
TIN, TOTAL	014	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
THALLIUM, TOTAL	014	S	95GF768	04/09/95	04/10/95	04/11/95	04/11/95
VANADIUM, TOTAL	014	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
ZINC, TOTAL	014	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

RFW LOT # :9504G211

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC	EXT/PREP	ANALYSIS
TC2-BG06-SBS							
SILVER, TOTAL	011	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
ARSENIC, TOTAL	011	S	95GF768	04/09/95	04/10/95	04/11/95	04/14/95
BARIUM, TOTAL	011	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
BERYLLIUM, TOTAL	011	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
CADMIUM, TOTAL	011	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
COBALT, TOTAL	011	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
CHROMIUM, TOTAL	011	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
COPPER, TOTAL	011	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
MERCURY, TOTAL	011	S	95HG217	04/09/95	04/10/95	04/12/95	04/12/95
NICKEL, TOTAL	011	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
LEAD, TOTAL	011	S	95GF768	04/09/95	04/10/95	04/11/95	04/18/95
ANTIMONY, TOTAL	011	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
SELENIUM, TOTAL	011	S	95GF768	04/09/95	04/10/95	04/11/95	04/12/95
TIN, TOTAL	011	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
THALLIUM, TOTAL	011	S	95GF768	04/09/95	04/10/95	04/11/95	04/11/95
VANADIUM, TOTAL	011	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
ZINC, TOTAL	011	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
TC2-BG06-SBD							
SILVER, TOTAL	012	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
ARSENIC, TOTAL	012	S	95GF768	04/09/95	04/10/95	04/11/95	04/17/95
BARIUM, TOTAL	012	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
BERYLLIUM, TOTAL	012	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
CADMIUM, TOTAL	012	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
COBALT, TOTAL	012	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
CHROMIUM, TOTAL	012	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
COPPER, TOTAL	012	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
MERCURY, TOTAL	012	S	95HG217	04/09/95	04/10/95	04/12/95	04/12/95
NICKEL, TOTAL	012	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
LEAD, TOTAL	012	S	95GF768	04/09/95	04/10/95	04/11/95	04/18/95
ANTIMONY, TOTAL	012	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
SELENIUM, TOTAL	012	S	95GF768	04/09/95	04/10/95	04/11/95	04/12/95
TIN, TOTAL	012	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
THALLIUM, TOTAL	012	S	95GF768	04/09/95	04/10/95	04/11/95	04/11/95
VANADIUM, TOTAL	012	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95
ZINC, TOTAL	012	S	95GI598	04/09/95	04/10/95	04/11/95	04/14/95

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

RFW LOT # :9504G211

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC	EXT/PREP	ANALYSIS
TC2-BG06-GWS-DP							
SILVER, TOTAL	009	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
ARSENIC, TOTAL	009	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
BARIUM, TOTAL	009	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
BERYLLIUM, TOTAL	009	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CADMIUM, TOTAL	009	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COBALT, TOTAL	009	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CHROMIUM, TOTAL	009	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COPPER, TOTAL	009	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
MERCURY, TOTAL	009	W	95HG218	04/09/95	04/10/95	04/12/95	04/12/95
NICKEL, TOTAL	009	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
LEAD, TOTAL	009	W	95GF767	04/09/95	04/10/95	04/11/95	04/12/95
ANTIMONY, TOTAL	009	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
SELENIUM, TOTAL	009	W	95GF767	04/09/95	04/10/95	04/11/95	04/12/95
TIN, TOTAL	009	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
THALLIUM, TOTAL	009	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
VANADIUM, TOTAL	009	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
ZINC, TOTAL	009	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
SILVER, SOLUBLE	010	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
ARSENIC, SOLUBLE	010	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
BARIUM, SOLUBLE	010	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
BERYLLIUM, SOLUBLE	010	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CADMIUM, SOLUBLE	010	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COBALT, SOLUBLE	010	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CHROMIUM, SOLUBLE	010	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COPPER, SOLUBLE	010	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
MERCURY, SOLUBLE	010	W	95HG218	04/09/95	04/10/95	04/12/95	04/12/95
NICKEL, SOLUBLE	010	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
LEAD, SOLUBLE	010	W	95GF767	04/09/95	04/10/95	04/11/95	04/12/95
ANTIMONY, SOLUBLE	010	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
SELENIUM, SOLUBLE	010	W	95GF767	04/09/95	04/10/95	04/11/95	04/12/95
TIN, SOLUBLE	010	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
THALLIUM, SOLUBLE	010	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
VANADIUM, SOLUBLE	010	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
ZINC, SOLUBLE	010	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95

NY CERTIFICATION # 11006

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

RFW LOT # :9504G211

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC EXT/PREP	ANALYSIS
THALLIUM, SOLUBLE	006	W	95GF767	04/09/95	04/10/95 04/11/95	04/11/95
VANADIUM, SOLUBLE	006	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
ZINC, SOLUBLE	006	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
TC2-BG07-GWD						
SILVER, TOTAL	007	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
ARSENIC, TOTAL	007	W	95GF767	04/09/95	04/10/95 04/11/95	04/11/95
BARIUM, TOTAL	007	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
BERYLLIUM, TOTAL	007	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
CADMIUM, TOTAL	007	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
COBALT, TOTAL	007	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
CHROMIUM, TOTAL	007	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
COPPER, TOTAL	007	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
MERCURY, TOTAL	007	W	95HG218	04/09/95	04/10/95 04/12/95	04/12/95
NICKEL, TOTAL	007	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
LEAD, TOTAL	007	W	95GF767	04/09/95	04/10/95 04/11/95	04/12/95
ANTIMONY, TOTAL	007	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
SELENIUM, TOTAL	007	W	95GF767	04/09/95	04/10/95 04/11/95	04/12/95
TIN, TOTAL	007	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
THALLIUM, TOTAL	007	W	95GF767	04/09/95	04/10/95 04/11/95	04/11/95
VANADIUM, TOTAL	007	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
ZINC, TOTAL	007	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
SILVER, SOLUBLE	008	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
ARSENIC, SOLUBLE	008	W	95GF767	04/09/95	04/10/95 04/11/95	04/11/95
BARIUM, SOLUBLE	008	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
BERYLLIUM, SOLUBLE	008	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
CADMIUM, SOLUBLE	008	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
COBALT, SOLUBLE	008	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
CHROMIUM, SOLUBLE	008	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
COPPER, SOLUBLE	008	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
MERCURY, SOLUBLE	008	W	95HG218	04/09/95	04/10/95 04/12/95	04/12/95
NICKEL, SOLUBLE	008	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
LEAD, SOLUBLE	008	W	95GF767	04/09/95	04/10/95 04/11/95	04/12/95
ANTIMONY, SOLUBLE	008	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
SELENIUM, SOLUBLE	008	W	95GF767	04/09/95	04/10/95 04/11/95	04/12/95
TIN, SOLUBLE	008	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
THALLIUM, SOLUBLE	008	W	95GF767	04/09/95	04/10/95 04/11/95	04/11/95
VANADIUM, SOLUBLE	008	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
ZINC, SOLUBLE	008	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

RFW LOT # :9504G211

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC	EXT/PREP	ANALYSIS
ANTIMONY, SOLUBLE	004	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
SELENIUM, SOLUBLE	004	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
TIN, SOLUBLE	004	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
THALLIUM, SOLUBLE	004	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
VANADIUM, SOLUBLE	004	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
ZINC, SOLUBLE	004	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
TC2-BG07-GWS							
SILVER, TOTAL	005	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
ARSENIC, TOTAL	005	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
BARIUM, TOTAL	005	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
BERYLLIUM, TOTAL	005	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CADMIUM, TOTAL	005	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COBALT, TOTAL	005	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CHROMIUM, TOTAL	005	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COPPER, TOTAL	005	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
MERCURY, TOTAL	005	W	95HG218	04/09/95	04/10/95	04/12/95	04/12/95
NICKEL, TOTAL	005	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
LEAD, TOTAL	005	W	95GF767	04/09/95	04/10/95	04/11/95	04/12/95
ANTIMONY, TOTAL	005	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
SELENIUM, TOTAL	005	W	95GF767	04/09/95	04/10/95	04/11/95	04/12/95
TIN, TOTAL	005	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
THALLIUM, TOTAL	005	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
VANADIUM, TOTAL	005	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
ZINC, TOTAL	005	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
SILVER, SOLUBLE	006	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
ARSENIC, SOLUBLE	006	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
BARIUM, SOLUBLE	006	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
BERYLLIUM, SOLUBLE	006	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CADMIUM, SOLUBLE	006	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COBALT, SOLUBLE	006	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CHROMIUM, SOLUBLE	006	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COPPER, SOLUBLE	006	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
MERCURY, SOLUBLE	006	W	95HG218	04/09/95	04/10/95	04/12/95	04/12/95
NICKEL, SOLUBLE	006	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
LEAD, SOLUBLE	006	W	95GF767	04/09/95	04/10/95	04/11/95	04/12/95
ANTIMONY, SOLUBLE	006	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
SELENIUM, SOLUBLE	006	W	95GF767	04/09/95	04/10/95	04/11/95	04/12/95
TIN, SOLUBLE	006	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

RFW LOT # :9504G211

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC EXT/PREP	ANALYSIS
THALLIUM, SOLUBLE	002 MS	W	95GF767	04/09/95	04/10/95 04/11/95	04/11/95
VANADIUM, SERIAL DIL	002 L	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
VANADIUM, SOLUBLE	002	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
VANADIUM, SOLUBLE	002 REP	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
VANADIUM, SOLUBLE	002 MS	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
ZINC, SERIAL DILUTIO	002 L	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
ZINC, SOLUBLE	002	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
ZINC, SOLUBLE	002 REP	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
ZINC, SOLUBLE	002 MS	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
TC2-BG06-GWD						
SILVER, TOTAL	003	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
ARSENIC, TOTAL	003	W	95GF767	04/09/95	04/10/95 04/11/95	04/14/95
BARIUM, TOTAL	003	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
BERYLLIUM, TOTAL	003	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
CADMIUM, TOTAL	003	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
COBALT, TOTAL	003	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
CHROMIUM, TOTAL	003	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
COPPER, TOTAL	003	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
MERCURY, TOTAL	003	W	95HG218	04/09/95	04/10/95 04/12/95	04/12/95
NICKEL, TOTAL	003	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
LEAD, TOTAL	003	W	95GF767	04/09/95	04/10/95 04/11/95	04/12/95
ANTIMONY, TOTAL	003	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
SELENIUM, TOTAL	003	W	95GF767	04/09/95	04/10/95 04/11/95	04/11/95
TIN, TOTAL	003	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
THALLIUM, TOTAL	003	W	95GF767	04/09/95	04/10/95 04/11/95	04/11/95
VANADIUM, TOTAL	003	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
ZINC, TOTAL	003	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
SILVER, SOLUBLE	004	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
ARSENIC, SOLUBLE	004	W	95GF767	04/09/95	04/10/95 04/11/95	04/11/95
BARIUM, SOLUBLE	004	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
BERYLLIUM, SOLUBLE	004	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
CADMIUM, SOLUBLE	004	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
COBALT, SOLUBLE	004	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
CHROMIUM, SOLUBLE	004	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
COPPER, SOLUBLE	004	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
MERCURY, SOLUBLE	004	W	95HG218	04/09/95	04/10/95 04/12/95	04/12/95
NICKEL, SOLUBLE	004	W	95GI601	04/09/95	04/10/95 04/12/95	04/14/95
LEAD, SOLUBLE	004	W	95GF767	04/09/95	04/10/95 04/11/95	04/12/95

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

RFW LOT # :9504G211

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN	DATE REC	EXT/PREP	ANALYSIS
BERYLLIUM, SOLUBLE	002 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CADMIUM, SERIAL DILU	002 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CADMIUM, SOLUBLE	002	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CADMIUM, SOLUBLE	002 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CADMIUM, SOLUBLE	002 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COBALT, SERIAL DILUT	002 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COBALT, SOLUBLE	002	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COBALT, SOLUBLE	002 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COBALT, SOLUBLE	002 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CHROMIUM, SERIAL DIL	002 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CHROMIUM, SOLUBLE	002	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CHROMIUM, SOLUBLE	002 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CHROMIUM, SOLUBLE	002 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COPPER, SERIAL DILUT	002 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COPPER, SOLUBLE	002	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COPPER, SOLUBLE	002 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COPPER, SOLUBLE	002 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
MERCURY, SOLUBLE	002	W	95HG218	04/09/95	04/10/95	04/12/95	04/12/95
MERCURY, SOLUBLE	002 REP	W	95HG218	04/09/95	04/10/95	04/12/95	04/12/95
MERCURY, SOLUBLE	002 MS	W	95HG218	04/09/95	04/10/95	04/12/95	04/12/95
NICKEL, SERIAL DILUT	002 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
NICKEL, SOLUBLE	002	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
NICKEL, SOLUBLE	002 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
NICKEL, SOLUBLE	002 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
LEAD, SOLUBLE	002	W	95GF767	04/09/95	04/10/95	04/11/95	04/12/95
LEAD, SOLUBLE	002 REP	W	95GF767	04/09/95	04/10/95	04/11/95	04/12/95
LEAD, SOLUBLE	002 MS	W	95GF767	04/09/95	04/10/95	04/11/95	04/12/95
ANTIMONY, SERIAL DIL	002 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
ANTIMONY, SOLUBLE	002	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
ANTIMONY, SOLUBLE	002 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
ANTIMONY, SOLUBLE	002 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
SELENIUM, SOLUBLE	002	W	95GF767	04/09/95	04/10/95	04/11/95	04/12/95
SELENIUM, SOLUBLE	002 REP	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
SELENIUM, SOLUBLE	002 MS	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
Tin, Serial Dilution	002 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
TIN, SOLUBLE	002	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
TIN, SOLUBLE	002 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
TIN, SOLUBLE	002 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
THALLIUM, SOLUBLE	002	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
THALLIUM, SOLUBLE	002 REP	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

RFW LOT # :9504G211

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC	EXT/PREP	ANALYSIS
NICKEL, TOTAL	001 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
LEAD, TOTAL	001	W	95GF767	04/09/95	04/10/95	04/11/95	04/12/95
LEAD, TOTAL	001 REP	W	95GF767	04/09/95	04/10/95	04/11/95	04/12/95
LEAD, TOTAL	001 MS	W	95GF767	04/09/95	04/10/95	04/11/95	04/12/95
ANTIMONY, SERIAL DIL	001 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
ANTIMONY, TOTAL	001	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
ANTIMONY, TOTAL	001 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
ANTIMONY, TOTAL	001 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
SELENIUM, TOTAL	001	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
SELENIUM, TOTAL	001 REP	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
SELENIUM, TOTAL	001 MS	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
Tin, Serial Dilution	001 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
TIN, TOTAL	001	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
TIN, TOTAL	001 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
TIN, TOTAL	001 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
THALLIUM, TOTAL	001	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
THALLIUM, TOTAL	001 REP	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
THALLIUM, TOTAL	001 MS	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
VANADIUM, SERIAL DIL	001 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
VANADIUM, TOTAL	001	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
VANADIUM, TOTAL	001 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
VANADIUM, TOTAL	001 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
ZINC, SERIAL DILUTIO	001 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
ZINC, TOTAL	001	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
ZINC, TOTAL	001 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
ZINC, TOTAL	001 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
SILVER, SERIAL DILUT	002 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
SILVER, SOLUBLE	002	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
SILVER, SOLUBLE	002 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
SILVER, SOLUBLE	002 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
ARSENIC, SOLUBLE	002	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
ARSENIC, SOLUBLE	002 REP	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
ARSENIC, SOLUBLE	002 MS	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
BARIUM, SERIAL DILUT	002 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
BARIUM, SOLUBLE	002	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
BARIUM, SOLUBLE	002 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
BARIUM, SOLUBLE	002 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
BERYLLIUM, SERIAL DI	002 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
BERYLLIUM, SOLUBLE	002	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
BERYLLIUM, SOLUBLE	002 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95

Weston Environmental Metrics, Inc.
INORGANIC ANALYTICAL DATA PACKAGE FOR
Techalloy

RFW LOT # :9504G211

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTN DATE	REC	EXT/PREP	ANALYSIS
TC2-BG06-GWS							
SILVER, SERIAL DILUT	001 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
SILVER, TOTAL	001	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
SILVER, TOTAL	001 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
SILVER, TOTAL	001 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
ARSENIC, TOTAL	001	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
ARSENIC, TOTAL	001 REP	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
ARSENIC, TOTAL	001 MS	W	95GF767	04/09/95	04/10/95	04/11/95	04/11/95
BARIUM, SERIAL DILUT	001 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
BARIUM, TOTAL	001	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
BARIUM, TOTAL	001 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
BARIUM, TOTAL	001 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
BERYLLIUM, SERIAL DI	001 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
BERYLLIUM, TOTAL	001	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
BERYLLIUM, TOTAL	001 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
BERYLLIUM, TOTAL	001 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CADMIUM, SERIAL DILU	001 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CADMIUM, TOTAL	001	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CADMIUM, TOTAL	001 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CADMIUM, TOTAL	001 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COBALT, SERIAL DILUT	001 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COBALT, TOTAL	001	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COBALT, TOTAL	001 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COBALT, TOTAL	001 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CHROMIUM, SERIAL DIL	001 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CHROMIUM, TOTAL	001	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CHROMIUM, TOTAL	001 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
CHROMIUM, TOTAL	001 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COPPER, SERIAL DILUT	001 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COPPER, TOTAL	001	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COPPER, TOTAL	001 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
COPPER, TOTAL	001 MS	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
MERCURY, TOTAL	001	W	95HG218	04/09/95	04/10/95	04/12/95	04/12/95
MERCURY, TOTAL	001 REP	W	95HG218	04/09/95	04/10/95	04/12/95	04/12/95
MERCURY, TOTAL	001 MS	W	95HG218	04/09/95	04/10/95	04/12/95	04/12/95
NICKEL, SERIAL DILUT	001 L	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
NICKEL, TOTAL	001	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95
NICKEL, TOTAL	001 REP	W	95GI601	04/09/95	04/10/95	04/12/95	04/14/95

METALS DATA PACKAGE
TECHALLOY
RFW# 9504G211

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Metals Section Manager

4/27/95
Date

DATA SUMMARY

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Thursday April 27th, 1995

RE: **TC2-BG06-GWS**
Project # 01989-009-002-0000
Lab ID: **9504G211-001**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	2.5	u	ug/L	2.5
Arsenic, Total	1.9	u	ug/L	1.9
Barium, Total	59.3		ug/L	0.80
Beryllium, Total	0.61	u	ug/L	0.30
Cadmium, Total	2.9	u	ug/L	2.9
Cobalt, Total	20.5		ug/L	2.3
Chromium, Total	4.7	u	ug/L	4.7
Copper, Total	4.0		ug/L	4.0
Mercury, Total	0.20	u	ug/L	0.20
Nickel, Total	4400		ug/L	4.2
Lead, Total	1.2	u	ug/L	1.2
Antimony, Total	10.9	u	ug/L	10.9
Selenium, Total	1.4	u	ug/L	1.4
Tin, Total	18.4	u	ug/L	18.4
Thallium, Total	1.7	u	ug/L	1.7
Vanadium, Total	2.1	u	ug/L	2.1
Zinc, Total	1430		ug/L	1.9

L. Kolobka
5/25/95

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Thursday April 27th, 1995

RE: **TC2-BG06-GWS**
Project # 01989-009-002-0000
Lab ID: **9504G211-002**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Soluble	2.5	u	ug/L	2.5
Arsenic, Soluble	1.9	u	ug/L	1.9
Barium, Soluble	55.8		ug/L	0.80
Beryllium, Soluble	0.62	u	ug/L	0.30
Cadmium, Soluble	2.9	u	ug/L	2.9
Cobalt, Soluble	20.0		ug/L	2.3
Chromium, Soluble	4.7	u	ug/L	4.7
Copper, Soluble	4.0	u	ug/L	4.0
Mercury, Soluble	0.20	u	ug/L	0.20
Nickel, Soluble	4250		ug/L	4.2
Lead, Soluble	1.2	u	ug/L	1.2
Antimony, Soluble	10.9	u	ug/L	10.9
Selenium, Soluble	1.4	u	ug/L	1.4
Tin, Soluble	18.4	u	ug/L	18.4
Thallium, Soluble	1.7	u	ug/L	1.7
Vanadium, Soluble	2.1	u	ug/L	2.1
Zinc, Soluble	1390		ug/L	1.9

L. Korobka
5/25/95

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Thursday April 27th, 1995

RE: **TC2-BG06-GWD**
Project # 01989-009-002-0000
Lab ID: **9504G211-003**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	2.5	u	ug/L	2.5
Arsenic, Total	23.1		ug/L	1.9
Barium, Total	230		ug/L	0.80
Beryllium, Total	1.4	u	ug/L	0.30
Cadmium, Total	2.9	u	ug/L	2.9
Cobalt, Total	56.6		ug/L	2.3
Chromium, Total	232		ug/L	4.7
Copper, Total	190		ug/L	4.0
Mercury, Total	0.20	u	ug/L	0.20
Nickel, Total	3000		ug/L	4.2
Lead, Total	47.0		ug/L	1.2
Antimony, Total	10.9	u	ug/L	10.9
Selenium, Total	1.4	u	ug/L	1.4
Tin, Total	18.4	u	ug/L	18.4
Thallium, Total	1.7	u	ug/L	1.7
Vanadium, Total	99.1		ug/L	2.1
Zinc, Total	3500		ug/L	1.9

L. Korolka
5/25/95

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
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Fax: (708) 534-5211

To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Thursday April 27th, 1995

RE: **TC2-BG06-GWD**
Project # 01989-009-002-0000
Lab ID: **9504G211-004**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Soluble	2.5	u	ug/L	2.5
Arsenic, Soluble	1.9	u	ug/L	1.9
Barium, Soluble	58.1		ug/L	0.80
Beryllium, Soluble	0.30	u	ug/L	0.30
Cadmium, Soluble	2.9	u	ug/L	2.9
Cobalt, Soluble	18.4		ug/L	2.3
Chromium, Soluble	4.7	u	ug/L	4.7
Copper, Soluble	4.0	u	ug/L	4.0
Mercury, Soluble	0.20	u	ug/L	0.20
Nickel, Soluble	919		ug/L	4.2
Lead, Soluble	1.2	u	ug/L	1.2
Antimony, Soluble	10.9	u	ug/L	10.9
Selenium, Soluble	2.0		ug/L	1.4
Tin, Soluble	18.4	u	ug/L	18.4
Thallium, Soluble	1.7	u	ug/L	1.7
Vanadium, Soluble	2.1	u	ug/L	2.1
Zinc, Soluble	141		ug/L	1.9

L. Krolka
5/25/95

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Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Thursday April 27th, 1995

RE: **TC2-BG07-GWS**
Project # 01989-009-002-0000
Lab ID: **9504G211-005**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	2.5	u	ug/L	2.5
Arsenic, Total	1.9	u	ug/L	1.9
Barium, Total	34.3		ug/L	0.80
Beryllium, Total	0.30	u	ug/L	0.30
Cadmium, Total	2.9	u	ug/L	2.9
Cobalt, Total	2.3	u	ug/L	2.3
Chromium, Total	470		ug/L	4.7
Copper, Total	4.7		ug/L	4.0
Mercury, Total	0.20	u	ug/L	0.20
Nickel, Total	11.0		ug/L	4.2
Lead, Total	1.5		ug/L	1.2
Antimony, Total	10.9	u	ug/L	10.9
Selenium, Total	1.4	u	ug/L	1.4
Tin, Total	18.4	u	ug/L	18.4
Thallium, Total	1.7	u	ug/L	1.7
Vanadium, Total	2.3		ug/L	2.1
Zinc, Total	6.3		ug/L	1.9

J. Korobka
5/25/95

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Thursday April 27th, 1995

RE: **TC2-BG07-GWS**
Project # 01989-009-002-0000
Lab ID: **9504G211-006**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Soluble	2.5	u	ug/L	2.5
Arsenic, Soluble	1.9	u	ug/L	1.9
Barium, Soluble	29.7		ug/L	0.80
Beryllium, Soluble	0.30	u	ug/L	0.30
Cadmium, Soluble	2.9	u	ug/L	2.9
Cobalt, Soluble	2.3	u	ug/L	2.3
Chromium, Soluble	375		ug/L	4.7
Copper, Soluble	4.0	u	ug/L	4.0
Mercury, Soluble	0.20	u	ug/L	0.20
Nickel, Soluble	15.4		ug/L	4.2
Lead, Soluble	1.2	u	ug/L	1.2
Antimony, Soluble	10.9	u	ug/L	10.9
Selenium, Soluble	1.4	u	ug/L	1.4
Tin, Soluble	18.4	u	ug/L	18.4
Thallium, Soluble	1.7	u	ug/L	1.7
Vanadium, Soluble	2.1	u	ug/L	2.1
Zinc, Soluble	8.4		ug/L	1.9

L. Korobka
5/25/95

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
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Fax: (708) 534-5211

To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Thursday April 27th, 1995

RE: **TC2-BG07-GWD**
Project # 01989-009-002-0000
Lab ID: **9504G211-007**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	2.5	u	ug/L	2.5
Arsenic, Total	1.9	u	ug/L	1.9
Barium, Total	58.9		ug/L	0.80
Beryllium, Total	0.30	u	ug/L	0.30
Cadmium, Total	2.9	u	ug/L	2.9
Cobalt, Total	2.3	u	ug/L	2.3
Chromium, Total	7.9		ug/L	4.7
Copper, Total	4.3		ug/L	4.0
Mercury, Total	0.20	u	ug/L	0.20
Nickel, Total	15.7		ug/L	4.2
Lead, Total	1.4		ug/L	1.2
Antimony, Total	10.9	u	ug/L	10.9
Selenium, Total	1.4	u	ug/L	1.4
Tin, Total	18.4	u	ug/L	18.4
Thallium, Total	1.7	u	ug/L	1.7
Vanadium, Total	5.7		ug/L	2.1
Zinc, Total	16.7		ug/L	1.9

L. Kaobka
5/25/95

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Thursday April 27th, 1995

RE: **TC2-BG07-GWD**
Project # 01989-009-002-0000
Lab ID: **9504G211-008**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Soluble	2.5	u	ug/L	2.5
Arsenic, Soluble	1.9	u	ug/L	1.9
Barium, Soluble	59.6		ug/L	0.80
Beryllium, Soluble	0.40	u	ug/L	0.30
Cadmium, Soluble	2.9	u	ug/L	2.9
Cobalt, Soluble	2.3	u	ug/L	2.3
Chromium, Soluble	74.5		ug/L	4.7
Copper, Soluble	5.1		ug/L	4.0
Mercury, Soluble	0.20	u	ug/L	0.20
Nickel, Soluble	32.7		ug/L	4.2
Lead, Soluble	1.2	u	ug/L	1.2
Antimony, Soluble	10.9	u	ug/L	10.9
Selenium, Soluble	1.4	u	ug/L	1.4
Tin, Soluble	18.4	u	ug/L	18.4
Thallium, Soluble	1.7	u	ug/L	1.7
Vanadium, Soluble	2.1	u	ug/L	2.1
Zinc, Soluble	6.4		ug/L	1.9

L. Krolska
5/25/95

WESTON
MANAGERS DESIGNERS/CONSULTANTS

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Thursday April 27th, 1995

RE: **TC2-BG06-GWS-DP**
Project # 01989-009-002-0000
Lab ID: **9504G211-009**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	2.5	u	ug/L	2.5
Arsenic, Total	2.8		ug/L	1.9
Barium, Total	102		ug/L	0.80
Beryllium, Total	0.92	u	ug/L	0.30
Cadmium, Total	2.9	u	ug/L	2.9
Cobalt, Total	24.9		ug/L	2.3
Chromium, Total	19.3		ug/L	4.7
Copper, Total	23.6		ug/L	4.0
Mercury, Total	0.20	u	ug/L	0.20
Nickel, Total	4620		ug/L	4.2
Lead, Total	5.5		ug/L	1.2
Antimony, Total	10.9	u	ug/L	10.9
Selenium, Total	1.4	u	ug/L	1.4
Tin, Total	18.4	u	ug/L	18.4
Thallium, Total	1.7	u	ug/L	1.7
Vanadium, Total	22.7		ug/L	2.1
Zinc, Total	1570		ug/L	1.9

L Korobka
5/25/95

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Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Thursday April 27th, 1995

RE: **TC2-BG06-GWS-DP**
Project # 01989-009-002-0000
Lab ID: **9504G211-010**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Soluble	2.5	u	ug/L	2.5
Arsenic, Soluble	1.9	u	ug/L	1.9
Barium, Soluble	58.9		ug/L	0.80
Beryllium, Soluble	0.50	u	ug/L	0.30
Cadmium, Soluble	2.9	u	ug/L	2.9
Cobalt, Soluble	19.9		ug/L	2.3
Chromium, Soluble	4.7	u	ug/L	4.7
Copper, Soluble	6.0		ug/L	4.0
Mercury, Soluble	0.20	u	ug/L	0.20
Nickel, Soluble	4390		ug/L	4.2
Lead, Soluble	1.2	u	ug/L	1.2
Antimony, Soluble	10.9	u	ug/L	10.9
Selenium, Soluble	1.4	u	ug/L	1.4
Tin, Soluble	18.4	u	ug/L	18.4
Thallium, Soluble	1.7	u	ug/L	1.7
Vanadium, Soluble	2.1	u	ug/L	2.1
Zinc, Soluble	1380		ug/L	1.9

L Krolka
5/25/95

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Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
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To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Thursday April 27th, 1995

RE: **TC2-BG06-SBS**
Project # 01989-009-002-0000
Lab ID: **9504G211-011**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	0.44	u	mg/kg	0.44
Arsenic, Total	4.9		mg/kg	0.73
Barium, Total	63.6		mg/kg	0.14
Beryllium, Total	0.44	U	mg/kg	0.052
Cadmium, Total	0.51	u	mg/kg	0.51
Cobalt, Total	4.8		mg/kg	0.40
Chromium, Total	29.1		mg/kg	0.82
Copper, Total	11.9		mg/kg	0.70
Mercury, Total	0.082	u	mg/kg	0.082
Nickel, Total	145		mg/kg	0.73
Lead, Total	5.8		mg/kg	0.23
Antimony, Total	1.9	uJ	mg/kg	1.9
Selenium, Total	0.27	u	mg/kg	0.27
Tin, Total	3.2	u	mg/kg	3.2
Thallium, Total	0.33	u	mg/kg	0.33
Vanadium, Total	41.8		mg/kg	0.37
Zinc, Total	38.4	J	mg/kg	0.33

L. Krobka
5/25/95

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2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Thursday April 27th, 1995

RE: **TC2-BG06-SBD**
Project # 01989-009-002-0000
Lab ID: **9504G211-012**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	0.44	u	mg/kg	0.44
Arsenic, Total	4.2		mg/kg	0.35
Barium, Total	7.0		mg/kg	0.14
Beryllium, Total	0.17	U	mg/kg	0.053
Cadmium, Total	0.51	u	mg/kg	0.51
Cobalt, Total	2.2		mg/kg	0.40
Chromium, Total	7.5		mg/kg	0.83
Copper, Total	7.3	U	mg/kg	0.70
Mercury, Total	0.080	u	mg/kg	0.080
Nickel, Total	45.9		mg/kg	0.74
Lead, Total	8.6		mg/kg	0.22
Antimony, Total	1.9	uJ	mg/kg	1.9
Selenium, Total	0.26	u	mg/kg	0.26
Tin, Total	3.2	u	mg/kg	3.2
Thallium, Total	0.31	u	mg/kg	0.31
Vanadium, Total	12.9		mg/kg	0.37
Zinc, Total	29.3	J	mg/kg	0.33

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2417 Bond Street
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To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Thursday April 27th, 1995

RE: **TC2-BG06-SBS-DP**
Project # 01989-009-002-0000
Lab ID: **9504G211-013**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	0.50	u	mg/kg	0.50
Arsenic, Total	5.1		mg/kg	0.31
Barium, Total	58.2		mg/kg	0.16
Beryllium, Total	0.51		mg/kg	0.061
Cadmium, Total	0.59	u	mg/kg	0.59
Cobalt, Total	6.9		mg/kg	0.46
Chromium, Total	22.3		mg/kg	0.95
Copper, Total	13.7		mg/kg	0.81
Mercury, Total	0.10	u	mg/kg	0.10
Nickel, Total	109		mg/kg	0.85
Lead, Total	8.0		mg/kg	0.20
Antimony, Total	2.2	uJ	mg/kg	2.2
Selenium, Total	0.23	u	mg/kg	0.23
Tin, Total	4.5	U	mg/kg	3.7
Thallium, Total	0.28	u	mg/kg	0.28
Vanadium, Total	49.8		mg/kg	0.42
Zinc, Total	42.1	J	mg/kg	0.38

L Kolodka
5/25/95

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Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Thursday April 27th, 1995

RE: **TC2-BG07-SBS**
Project # 01989-009-002-0000
Lab ID: **9504G211-014**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	0.42	u	mg/kg	0.42
Arsenic, Total	2.9		mg/kg	0.38
Barium, Total	63.4		mg/kg	0.13
Beryllium, Total	0.40	U	mg/kg	0.051
Cadmium, Total	0.49	u	mg/kg	0.49
Cobalt, Total	3.0		mg/kg	0.39
Chromium, Total	17.8		mg/kg	0.79
Copper, Total	8.0	U	mg/kg	0.67
Mercury, Total	0.091	u	mg/kg	0.091
Nickel, Total	13.2		mg/kg	0.71
Lead, Total	7.4		mg/kg	0.24
Antimony, Total	1.8	uJ	mg/kg	1.8
Selenium, Total	0.43		mg/kg	0.28
Tin, Total	3.1	u	mg/kg	3.1
Thallium, Total	0.34	u	mg/kg	0.34
Vanadium, Total	27.7		mg/kg	0.35
Zinc, Total	22.7	J	mg/kg	0.32

L. Korolika
5/25/95

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3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Thursday April 27th, 1995

RE: **TC2-BG07-SBD**
Project # 01989-009-002-0000
Lab ID: **9504G211-015**
Sample Date: 04/09/95
Date Received: 04/10/95

Inorganic Data Report

Parameters	Result		Units	Reporting Limit
Silver, Total	0.50	u	mg/kg	0.50
Arsenic, Total	2.8		mg/kg	0.37
Barium, Total	7.6		mg/kg	0.16
Beryllium, Total	0.19	u	mg/kg	0.059
Cadmium, Total	0.57	u	mg/kg	0.57
Cobalt, Total	2.7		mg/kg	0.46
Chromium, Total	7.2		mg/kg	0.93
Copper, Total	6.7	u	mg/kg	0.79
Mercury, Total	0.09	u	mg/kg	0.09
Nickel, Total	37.3		mg/kg	0.83
Lead, Total	3.6		mg/kg	0.24
Antimony, Total	2.2	uJ	mg/kg	2.2
Selenium, Total	0.27	u	mg/kg	0.27
Tin, Total	3.6	u	mg/kg	3.6
Thallium, Total	0.33	u	mg/kg	0.33
Vanadium, Total	10.4		mg/kg	0.42
Zinc, Total	19.6	J	mg/kg	0.38

L. Krolka
5/25/95

CASE NARRATIVE

Weston Environmental Metrics, Inc.
INORGANICS CASE NARRATIVE

Client: Techalloy
RFW#: 9504G211
SDG#: G21101

W.O.#: 01989-009-002-0000
Date Rec'd: 04/10/95

1. This narrative covers the analysis of 10 water and 5 soil samples for the following metals:

   ICP .... Ag,Ba,Be,Cd,Co,Cr,Cu,Ni,Sb,Sn,V,Zn
   GFAA ... As,Pb,Se,Tl
   CVAA .... Hg

   Method Ref: USEPA, CLP SOW ILM03.0

2. All analyses were performed within the required holding times.

3. All Initial and Continuing Calibration Verification (ICV/CCV's) were within control limits.

4. All Initial and Continuing Calibration Blanks (ICB/CCB's) were within control limits.

5. All Preparation/Method Blanks were below reporting limits.

6. All ICP Interference Check Samples (ICSA and ICSAB) were within control limits.

7. All Laboratory Control Samples (LCS) were within the 80-120% control limits.

8. All Serial dilution analysis were within control limits except for:

   9504G211-015 Zn 13.2%

9. All Matrix Spike recoveries were within the 75-125% control limits (exception allowed when the sample concentration exceeds the spike added concentration by a factor of four or more) except for:

   9503G211-015 Sb 71.6%

   Post matrix spike analysis was performed as following:

   9503G211-015 Sb 98.7%

10. All Duplicate analysis were within the 20% Relative Percent Difference (RPD) control limits for sample results greater than 5X the reporting limit or +/- the reporting limit for sample results less than 5X the reporting limits except for:

    9503G211-015 Ni 49.0%

Metals case narrative
9504G211

11. All Analytical spike recovery analyses were within control limits except for:

As	004-009
Se	003,004,007-009,012
Tl	003,013,014

12. Method of Standard Additions (MSA) analyses was performed as following:

As	003,011,012,015,015D
Pb	015D

13. All sample ID's were modified on all CLP forms to accommodate the EPA naming convention which allows a maximum of 6 characters. Please refer to the Cover Page of the CLP Forms to correlate the modified sample ID's to the RFW#'s and to the Chain of Custody to correlate RFW#'s to the client ID.

Mani S. Iyer
Metals Section Manager

4/27/95
Date

INORGANIC GLOSSARY OF DATA QUALIFIERS AND ABBREVIATIONS

Inorganic Data Qualifiers

B Result is less than the CRDL, but greater than or equal to the instrument detection limit
E Result is estimated due to interference
M Analyte concentrations are greater than the CRDL, and the RSD of duplicate injections was greater than 20%
N Matrix Spike recovery was outside the control limits
S Result was determined by the Method of Standard Additions (MSA)
T Analyte was found in the TCLP extraction blank and sample
U Analyte was not detected at or above the reporting limit
W Post-digestion spike was outside 85-115% control limits, sample absorbance is less than 50% of spike absorbance
\+ MSA correlation coefficient is less than 0.995
* Duplicate analysis was outside the control limits

Abbreviations

A	Analyzed by flame A.A. direct aspiration
Batch	Identifies a specific extraction, digestion or preparation set (equivalent to Prep Batch)
BS	Blank Spike analysis was conducted on reagent grade water or a matrix free from the analyte(s) of interest
BSD	Blank Spike Duplicate
BRL	Below Reporting Limit
C	Cyanide analyte flag on CLP forms
CCV	Continuing Calibration Verification
CCB	Continuing Calibration Blank
CD	Calculation Factor used by the laboratory's Information Management System (LIMS)
CV	Analyzed by the cold vapor generation method for Mercury
Contract	Contract Laboratory Identification Code
DF	Dilution Factor
F	Analyzed by graphite furnace atomic absorption spectroscopy
ICV	Initial Calibration Verification
ICB	Initial Calibration Blank
LCS/LC	Denotes Laboratory Control Standard
LAB ID	The full 12 character WESTON Laboratory Identification Number (equivalent to RFW#)
MB	Method Blank or (PB) for Preparation Blank
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
NC	Non-calculable precision due to insufficient concentration of analyte present in the sample
NR	Not Required
NS	Not Spiked
P	Analyzed by inductively coupled argon plasma
REP	Replicate analysis
RFW#	The full 12 character WESTON Laboratory Idenficiation number (equivalent to LAB ID)
RFW Lot	The first 8 characters of the RFW#
RPD	Relative Percent Difference of duplicate analyses
X	Result obtained indirectly through calculation based on results from other analyses
WO#	Work Order No. Weston Code used to define a specific clinet, job phase and task

NOTES:

- One or a combination of these data qualifiers and abbreviations may appear in the analytical report.
- Soil, sediment and sludge results are reported on a dry weight basis except when analyzed for landfill disposal or incineration parameters. All other results on a solid matrix are reported on an "as received" basis unless noted differently.
- Reporting limits are adjusted for preparation sample size, sample dilutions, and sample moisture content if analyzed on a dry weight basis.

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Antimony									NR
Arsenic	25.0	25.06	100.2	35.0	33.90	96.9	34.27	97.9	F
Barium									NR
Beryllium									NR
Cadmium									NR
[illegible]omium									NR
[illegible]alt									NR
Copper									NR
Lead	25.0	25.41	101.6	35.0	36.27	103.6	33.52	95.8	F
Mercury									NR
Nickel									NR
Selenium									NR
Silver									NR
Tin									NR
Thallium				35.0	35.22	100.6			F
Vanadium									NR
Zinc									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Antimony									NR
Arsenic				35.0	34.08	97.4	33.38	95.4	F
Barium									NR
Beryllium									NR
Cadmium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Lead				35.0	33.65	96.1			F
Mercury									NR
Nickel									NR
Selenium				25.0	24.67	98.7			F
Silver									NR
Tin									NR
Thallium				35.0	37.12	106.1	36.85	105.3	F
Vanadium									NR
Zinc									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Antimony									NR
Arsenic	25.0	25.30	101.2	35.0	34.84	99.5	33.77	96.5	F
Barium									NR
Beryllium									NR
Cadmium									NR
[illegible]omium									NR
[illegible]alt									NR
Copper									NR
Lead				35.0	34.01	97.2	32.79	93.7	F
Mercury									NR
Nickel									NR
Selenium	35.0	35.66	101.9	25.0	26.11	104.4	24.22	96.9	F
Silver									NR
Tin									NR
Thallium				35.0	35.78	102.2	37.40	106.9	F
Vanadium									NR
Zinc									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Antimony				1000.0	1035.90	103.6			P
Arsenic				35.0	35.57	101.6	36.09	103.1	F
Barium				10000.0	10174.54	101.7			P
Beryllium				2500.0	2510.65	100.4			P
Cadmium				2500.0	2528.28	101.1			P
Chromium				5000.0	5072.41	101.4			P
Cobalt				5000.0	5169.64	103.4			P
Copper				5000.0	5127.02	102.5			P
Lead				35.0	32.66	93.3	33.20	94.9	F
Mercury									NR
Nickel				5000.0	5121.30	102.4			P
Selenium				25.0	23.12	92.5			F
Silver				1000.0	1016.72	101.7			P
Tin				5000.0	5163.62	103.3			P
Thallium				35.0	37.05	105.9	35.47	101.3	F
Vanadium				5000.0	5166.60	103.3			P
Zinc				5000.0	5062.23	101.2			P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Antimony	800.0	844.32	105.5	1000.0	1041.89	104.2	1041.54	104.2	P
Arsenic				35.0	35.57	101.6	34.01	97.2	F
Barium	8000.0	8153.50	101.9	10000.0	10091.25	100.9	10094.48	100.9	P
Beryllium	2000.0	2033.48	101.7	2500.0	2508.45	100.3	2509.44	100.4	P
Cadmium	2000.0	2026.75	101.3	2500.0	2516.61	100.7	2529.02	101.2	P
Chromium	4000.0	4147.83	103.7	5000.0	5067.37	101.3	5098.73	102.0	P
Cobalt	4000.0	4156.61	103.9	5000.0	5175.79	103.5	5190.49	103.8	P
Copper	4000.0	4082.21	102.1	5000.0	5082.80	101.7	5096.49	101.9	P
Lead				35.0	34.07	97.3	33.04	94.4	F
Mercury									NR
Nickel	4000.0	4145.63	103.6	5000.0	5128.16	102.6	5137.75	102.8	P
Selenium	35.0	34.12	97.5	25.0	25.42	101.7	25.72	102.9	F
Silver	800.0	804.04	100.5	1000.0	1009.30	100.9	1007.24	100.7	P
Tin	4000.0	4093.46	102.3	5000.0	5061.84	101.2	5187.30	103.7	P
Thallium				35.0	35.96	102.7	35.70	102.0	F
Vanadium	4000.0	4116.61	102.9	5000.0	5152.05	103.0	5171.98	103.4	P
Zinc	4000.0	4027.99	100.7	5000.0	5055.85	101.1	5088.74	101.8	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Antimony				1000.0	1060.19	106.0	1072.71	107.3	P
Arsenic				35.0	34.69	99.1	37.69	107.7	F
Barium				10000.0	10131.05	101.3	10148.94	101.5	P
Beryllium				2500.0	2509.79	100.4	2510.31	100.4	P
Cadmium				2500.0	2560.39	102.4	2543.10	101.7	P
Chromium				5000.0	5134.54	102.7	5145.52	102.9	P
Cobalt				5000.0	5249.66	105.0	5248.74	105.0	P
Copper				5000.0	5113.17	102.3	5107.98	102.2	P
Lead				35.0	33.71	96.3	33.79	96.5	F
Mercury	2.0	2.01	100.5	1.0	1.01	101.0			CV
Nickel				5000.0	5205.82	104.1	5202.95	104.1	P
Selenium				25.0	24.87	99.5			F
Silver				1000.0	1025.92	102.6	1019.71	102.0	P
Tin				5000.0	5150.58	103.0	5154.67	103.1	P
Thallium				35.0	36.13	103.2	34.78	99.4	F
Vanadium				5000.0	5190.38	103.8	5193.24	103.9	P
Zinc				5000.0	5133.19	102.7	5102.70	102.1	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Antimony	800.0	863.23	107.9	1000.0	1047.59	104.8	1058.74	105.9	P
Arsenic	25.0	23.69	94.8	35.0	31.71	90.6	34.65	99.0	F
Barium	8000.0	8098.28	101.2	10000.0	10097.47	101.0	10109.03	101.1	P
Beryllium	2000.0	2030.07	101.5	2500.0	2506.19	100.2	2504.23	100.2	P
Cadmium	2000.0	2030.97	101.5	2500.0	2548.55	101.9	2555.44	102.2	P
[illegible]omium	4000.0	4167.16	104.2	5000.0	5089.35	101.8	5112.69	102.3	P
[illegible]alt	4000.0	4180.98	104.5	5000.0	5215.29	104.3	5227.96	104.6	P
Copper	4000.0	4052.89	101.3	5000.0	5075.85	101.5	5103.01	102.1	P
Lead	25.0	26.30	105.2	35.0	36.61	104.6	33.77	96.5	F
Mercury	2.0	1.99	99.5	1.0	1.03	103.0	1.01	101.0	CV
Nickel	4000.0	4172.89	104.3	5000.0	5170.52	103.4	5184.50	103.7	P
Selenium	35.0	34.44	98.4	25.0	25.14	100.6	25.50	102.0	F
Silver	800.0	808.23	101.0	1000.0	1020.15	102.0	1027.16	102.7	P
Tin	4000.0	4100.18	102.5	5000.0	5119.42	102.4	5148.04	103.0	P
Thallium	25.0	24.31	97.2	35.0	33.73	96.4	33.95	97.0	F
Vanadium	4000.0	4112.30	102.8	5000.0	5159.23	103.2	5177.03	103.5	P
Zinc	4000.0	4054.77	101.4	5000.0	5105.50	102.1	5115.22	102.3	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

G21115

Lab Name: WESTON_EMI Contract:

Lab Code: WESEMI Case No.: SAS No.: SDG No.: G21101

Matrix (soil/water): SOIL Lab Sample ID: 9504G211-015

Level (low/med): LOW Date Received: 04/10/95

% Solids: 96.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.2	U	N	P
7440-38-2	Arsenic	2.8		S	F
7440-39-3	Barium	7.6	B		P
7440-41-7	Beryllium	0.19	B		P
7440-43-9	Cadmium	0.57	U		P
7440-47-3	Chromium	7.2			P
7440-48-4	Cobalt	2.7	B		P
7440-50-8	Copper	6.7			P
7439-92-1	Lead	3.6			F
7439-97-6	Mercury	0.09	U		CV
7440-02-0	Nickel	37.3		*	P
7782-49-2	Selenium	0.27	U		F
7440-22-4	Silver	0.50	U		P
7440-31-5	Tin	3.6	U		P
7440-28-0	Thallium	0.33	U		F
7440-62-2	Vanadium	10.4			P
7440-66-6	Zinc	19.6		E	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

G21114

Lab Name: WESTON_EMI Contract:

Lab Code: WESEMI Case No.: SAS No.: SDG No.: G21101

Matrix (soil/water): SOIL Lab Sample ID: 9504G211-014

Level (low/med): LOW Date Received: 04/10/95

% Solids: 88.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.8	U	N	P
7440-38-2	Arsenic	2.9			F
7440-39-3	Barium	63.4			P
7440-41-7	Beryllium	0.40	B		P
7440-43-9	Cadmium	0.49	U		P
7440-47-3	Chromium	17.8			P
7440-48-4	Cobalt	3.0	B		P
7440-50-8	Copper	8.0			P
7439-92-1	Lead	7.4			F
7439-97-6	Mercury	0.09	U		CV
7440-02-0	Nickel	13.2		*	P
7782-49-2	Selenium	0.43	B		F
7440-22-4	Silver	0.42	U		P
7440-31-5	Tin	3.1	U		P
7440-28-0	Thallium	0.34	U	W	F
7440-62-2	Vanadium	27.7			P
7440-66-6	Zinc	22.7		E	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

G21113

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Matrix (soil/water): SOIL Lab Sample ID: 9504G211-013

Level (low/med): LOW Date Received: 04/10/95

% Solids: 87.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	2.2	U	N	P
7440-38-2	Arsenic	5.1			F
7440-39-3	Barium	58.2			P
7440-41-7	Beryllium	0.51	B		P
7440-43-9	Cadmium	0.59	U		P
7440-47-3	Chromium	22.3			P
7440-48-4	Cobalt	6.9	B		P
7440-50-8	Copper	13.7			P
7439-92-1	Lead	8.0			F
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	109		*	P
7782-49-2	Selenium	0.23	U		F
7440-22-4	Silver	0.50	U		P
7440-31-5	Tin	4.5	B		P
7440-28-0	Thallium	0.28	U	W	F
7440-62-2	Vanadium	49.8			P
7440-66-6	Zinc	42.1		E	P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: YELLOW Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

G21112

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Matrix (soil/water): SOIL Lab Sample ID: 9504G211-012

Level (low/med): LOW Date Received: 04/10/95

% Solids: 86.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.9	U	N	P
7440-38-2	Arsenic	4.2		S	F
7440-39-3	Barium	7.0	B		P
7440-41-7	Beryllium	0.17	B		P
7440-43-9	Cadmium	0.51	U		P
7440-47-3	Chromium	7.5			P
7440-48-4	Cobalt	2.2	B		P
7440-50-8	Copper	7.3			P
7439-92-1	Lead	8.6			F
7439-97-6	Mercury	0.08	U		CV
7440-02-0	Nickel	45.9		*	P
7782-49-2	Selenium	0.26	U	W	F
7440-22-4	Silver	0.44	U		P
7440-31-5	Tin	3.2	U		P
7440-28-0	Thallium	0.31	U		F
7440-62-2	Vanadium	12.9			P
7440-66-6	Zinc	29.3		E	P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

G21111

Lab Name: WESTON_EMI Contract:

Lab Code: WESEMI Case No.: SAS No.: SDG No.: G21101

Matrix (soil/water): SOIL Lab Sample ID: 9504G211-011

Level (low/med): LOW Date Received: 04/10/95

% Solids: 87.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.9	U	N	P
7440-38-2	Arsenic	4.9		S	F
7440-39-3	Barium	63.6			P
7440-41-7	Beryllium	0.44	B		P
7440-43-9	Cadmium	0.51	U		P
7440-47-3	Chromium	29.1			P
7440-48-4	Cobalt	4.8	B		P
7440-50-8	Copper	11.9			P
7439-92-1	Lead	5.8			F
7439-97-6	Mercury	0.08	U		CV
7440-02-0	Nickel	145		*	P
7782-49-2	Selenium	0.27	U		F
7440-22-4	Silver	0.44	U		P
7440-31-5	Tin	3.2	U		P
7440-28-0	Thallium	0.33	U		F
7440-62-2	Vanadium	41.8			P
7440-66-6	Zinc	38.4		E	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

G21110

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Matrix (soil/water): WATER Lab Sample ID: 9504G211-010

Level (low/med): LOW Date Received: 04/10/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	10.9	U		P
7440-38-2	Arsenic	1.9	U		F
7440-39-3	Barium	58.9	B		P
7440-41-7	Beryllium	0.50	B		P
7440-43-9	Cadmium	2.9	U		P
7440-47-3	Chromium	4.7	U		P
7440-48-4	Cobalt	19.9	B		P
7440-50-8	Copper	6.0	B		P
7439-92-1	Lead	1.2	U		F
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	4390			P
7782-49-2	Selenium	1.4	U		F
7440-22-4	Silver	2.5	U		P
7440-31-5	Tin	18.4	U		P
7440-28-0	Thallium	1.7	U		F
7440-62-2	Vanadium	2.1	U		P
7440-66-6	Zinc	1380			P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

G21109

Lab Name: WESTON_EMI Contract:

Lab Code: WESEMI Case No.: SAS No.: SDG No.: G21101

Matrix (soil/water): WATER Lab Sample ID: 9504G211-009

Level (low/med): LOW Date Received: 04/10/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	10.9	U		P
7440-38-2	Arsenic	2.8	B	W	F
7440-39-3	Barium	102	B		P
7440-41-7	Beryllium	0.92	B		P
7440-43-9	Cadmium	2.9	U		P
7440-47-3	Chromium	19.3			P
7440-48-4	Cobalt	24.9	B		P
7440-50-8	Copper	23.6	B		P
7439-92-1	Lead	5.5			F
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	4620			P
7782-49-2	Selenium	1.4	U	W	F
7440-22-4	Silver	2.5	U		P
7440-31-5	Tin	18.4	U		P
7440-28-0	Thallium	1.7	U		F
7440-62-2	Vanadium	22.7	B		P
7440-66-6	Zinc	1570			P

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

G21108

Lab Name: WESTON_EMI Contract:

Lab Code: WESEMI Case No.: SAS No.: SDG No.: G21101

Matrix (soil/water): WATER Lab Sample ID: 9504G211-008

Level (low/med): LOW Date Received: 04/10/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	10.9	U		P
7440-38-2	Arsenic	1.9	U	W	F
7440-39-3	Barium	59.6	B		P
7440-41-7	Beryllium	0.40	B		P
7440-43-9	Cadmium	2.9	U		P
7440-47-3	Chromium	74.5			P
7440-48-4	Cobalt	2.3	U		P
7440-50-8	Copper	5.1	B		P
7439-92-1	Lead	1.2	U		F
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	32.7	B		P
7782-49-2	Selenium	1.4	U	W	F
7440-22-4	Silver	2.5	U		P
7440-31-5	Tin	18.4	U		P
7440-28-0	Thallium	1.7	U		F
7440-62-2	Vanadium	2.1	U		P
7440-66-6	Zinc	6.4	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

G21107

Lab Name: WESTON_EMI Contract:

Lab Code: WESEMI Case No.: SAS No.: SDG No.: G21101

Matrix (soil/water): WATER Lab Sample ID: 9504G211-007

Level (low/med): LOW Date Received: 04/10/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	10.9	U		P
7440-38-2	Arsenic	1.9	U	W	F
7440-39-3	Barium	58.9	B		P
7440-41-7	Beryllium	0.30	B		P
7440-43-9	Cadmium	2.9	U		P
7440-47-3	Chromium	7.9	B		P
7440-48-4	Cobalt	2.3	U		P
7440-50-8	Copper	4.3	B		P
7439-92-1	Lead	1.4	B		F
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.7	B		P
7782-49-2	Selenium	1.4	U	W	F
7440-22-4	Silver	2.5	U		P
7440-31-5	Tin	18.4	U		P
7440-28-0	Thallium	1.7	U		F
7440-62-2	Vanadium	5.7	B		P
7440-66-6	Zinc	16.7	B		P

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

G21106

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Matrix (soil/water): WATER Lab Sample ID: 9504G211-006

Level (low/med): LOW Date Received: 04/10/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	10.9	U		P
7440-38-2	Arsenic	1.9	U	W	F
7440-39-3	Barium	29.7	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	2.9	U		P
7440-47-3	Chromium	375			P
7440-48-4	Cobalt	2.3	U		P
7440-50-8	Copper	4.0	U		P
7439-92-1	Lead	1.2	U		F
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	15.4	B		P
7782-49-2	Selenium	1.4	U		F
7440-22-4	Silver	2.5	U		P
7440-31-5	Tin	18.4	U		P
7440-28-0	Thallium	1.7	U		F
7440-62-2	Vanadium	2.1	U		P
7440-66-6	Zinc	8.4	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

G21105

Lab Name: WESTON_EMI Contract:

Lab Code: WESEMI Case No.: SAS No.: SDG No.: G21101

Matrix (soil/water): WATER Lab Sample ID: 9504G211-005

Level (low/med): LOW Date Received: 04/10/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	10.9	U		P
7440-38-2	Arsenic	1.9	U	W	F
7440-39-3	Barium	34.3	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	2.9	U		P
7440-47-3	Chromium	470			P
7440-48-4	Cobalt	2.3	U		P
7440-50-8	Copper	4.7	B		P
7439-92-1	Lead	1.5	B		F
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	11.0	B		P
7782-49-2	Selenium	1.4	U		F
7440-22-4	Silver	2.5	U		P
7440-31-5	Tin	18.4	U		P
7440-28-0	Thallium	1.7	U		F
7440-62-2	Vanadium	2.3	B		P
7440-66-6	Zinc	6.3	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

G21104

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Matrix (soil/water): WATER Lab Sample ID: 9504G211-004

Level (low/med): LOW Date Received: 04/10/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	10.9	U		P
7440-38-2	Arsenic	1.9	U	W	F
7440-39-3	Barium	58.1	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	2.9	U		P
7440-47-3	Chromium	4.7	U		P
7440-48-4	Cobalt	18.4	B		P
7440-50-8	Copper	4.0	U		P
7439-92-1	Lead	1.2	U		F
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	919			P
7782-49-2	Selenium	2.0	B	W	F
7440-22-4	Silver	2.5	U		P
7440-31-5	Tin	18.4	U		P
7440-28-0	Thallium	1.7	U		F
7440-62-2	Vanadium	2.1	U		P
7440-66-6	Zinc	141			P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

G21103

Lab Name: WESTON_EMI Contract:

Lab Code: WESEMI Case No.: SAS No.: SDG No.: G21101

Matrix (soil/water): WATER Lab Sample ID: 9504G211-003

Level (low/med): LOW Date Received: 04/10/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	10.9	U		P
7440-38-2	Arsenic	23.1		S	F
7440-39-3	Barium	230			P
7440-41-7	Beryllium	1.4	B		P
7440-43-9	Cadmium	2.9	U		P
7440-47-3	Chromium	232			P
7440-48-4	Cobalt	56.6			P
7440-50-8	Copper	190			P
7439-92-1	Lead	47.0			F
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	3000			P
7782-49-2	Selenium	1.4	U	W	F
7440-22-4	Silver	2.5	U		P
7440-31-5	Tin	18.4	U		P
7440-28-0	Thallium	1.7	U	W	F
7440-62-2	Vanadium	99.1			P
7440-66-6	Zinc	3500			P

Color Before: BROWN Clarity Before: OPAQUE Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

G21102

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Matrix (soil/water): WATER Lab Sample ID: 9504G211-002

Level (low/med): LOW Date Received: 04/10/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	10.9	U		P
7440-38-2	Arsenic	1.9	U		F
7440-39-3	Barium	55.8	B		P
7440-41-7	Beryllium	0.62	B		P
7440-43-9	Cadmium	2.9	U		P
7440-47-3	Chromium	4.7	U		P
7440-48-4	Cobalt	20.0	B		P
7440-50-8	Copper	4.0	U		P
7439-92-1	Lead	1.2	U		F
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	4250			P
7782-49-2	Selenium	1.4	U		F
7440-22-4	Silver	2.5	U		P
7440-31-5	Tin	18.4	U		P
7440-28-0	Thallium	1.7	U		F
7440-62-2	Vanadium	2.1	U		P
7440-66-6	Zinc	1390			P

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____

Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.
G21101

Lab Name: WESTON_EMI Contract:

Lab Code: WESEMI Case No.: SAS No.: SDG No.: G21101

Matrix (soil/water): WATER Lab Sample ID: 9504G211-001

Level (low/med): LOW Date Received: 04/10/95

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	10.9	U		P
7440-38-2	Arsenic	1.9	U		F
7440-39-3	Barium	59.3	B		P
7440-41-7	Beryllium	0.61	B		P
7440-43-9	Cadmium	2.9	U		P
7440-47-3	Chromium	4.7	U		P
7440-48-4	Cobalt	20.5	B		P
7440-50-8	Copper	4.0	B		P
7439-92-1	Lead	1.2	U		F
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	4400			P
7782-49-2	Selenium	1.4	U		F
7440-22-4	Silver	2.5	U		P
7440-31-5	Tin	18.4	U		P
7440-28-0	Thallium	1.7	U		F
7440-62-2	Vanadium	2.1	U		P
7440-66-6	Zinc	1430			P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

SOW No.: ILM03.0

EPA Sample No.	Lab Sample ID
_G21115S_____	_9504G211-015S__
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES

If yes - were raw data generated before application of background corrections ? Yes/No NO_

Comments:

_____

_____

_____

_____

I certify that this 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 hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: MANI S. IYER

Date: 4/27/95 Title: Metals Section Manager

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

La Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

SOW No.: ILM03.0

EPA Sample No.	Lab Sample ID
G21101	9504G211-001
G21101D	9504G211-001R
G21101S	9504G211-001S
G21102	9504G211-002
G21102D	9504G211-002R
G21102S	9504G211-002S
G21103	9504G211-003
G21104	9504G211-004
G21105	9504G211-005
G21106	9504G211-006
G21107	9504G211-007
G21108	9504G211-008
G21109	9504G211-009
G21110	9504G211-010
G21111	9504G211-011
G21112	9504G211-012
G21113	9504G211-013
G21114	9504G211-014
G21115	9504G211-015
G21115D	9504G211-015R

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO

Comments:

I certify that this 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 hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Mani S. Iyer Name: MANI S. IYER

Date: 4/27/95 Title: Metals Section Manager

DATA REPORTING FORMS

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Antimony									NR
Arsenic				35.0	34.82	99.5	32.80	93.7	F
Barium									NR
Beryllium									NR
Cadmium									NR
[illegible]omium									NR
[illegible]balt									NR
Copper									NR
Lead				35.0	32.89	94.0	32.42	92.6	F
Mercury									NR
Nickel									NR
Selenium									NR
Silver									NR
Tin									NR
Thallium									NR
Vanadium									NR
Zinc									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Antimony									NR
Arsenic				35.0	33.98	97.1	34.94	99.8	F
Barium									NR
Beryllium									NR
Cadmium									NR
C omium									NR
C alt									NR
Copper									NR
Lead				35.0	32.29	92.3			F
Mercury									NR
Nickel									NR
Selenium									NR
Silver									NR
Tin									NR
Thallium									NR
Vanadium									NR
Zinc									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Antimony									NR
Arsenic				35.0	35.79	102.3	35.77	102.2	F
Barium									NR
Beryllium									NR
Cadmium									NR
[illegible]omium									NR
[illegible]alt									NR
Copper									NR
Lead	25.0	27.10	108.4	35.0	37.41	106.9	37.41	106.9	F
Mercury									NR
Nickel									NR
Selenium									NR
Silver									NR
Tin									NR
Thallium									NR
Vanadium									NR
Zinc									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Antimony									NR
Arsenic				35.0	35.47	101.3	35.57	101.6	F
Barium									NR
Beryllium									NR
Cadmium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Lead				35.0	38.04	108.7	37.65	107.6	F
Mercury									NR
Nickel									NR
Selenium									NR
Silver									NR
Tin									NR
Thallium									NR
Vanadium									NR
Zinc									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Antimony									NR
Arsenic				35.0	36.17	103.3	35.37	101.1	F
Barium									NR
Beryllium									NR
Cadmium									NR
[illegible]omium									NR
[illegible]alt									NR
Copper									NR
Lead				35.0	37.73	107.8	37.44	107.0	F
Mercury									NR
Nickel									NR
Selenium									NR
Silver									NR
Tin									NR
Thallium									NR
Vanadium									NR
Zinc									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Antimony									NR
Arsenic				35.0	36.41	104.0	36.46	104.2	F
Barium									NR
Beryllium									NR
Cadmium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Lead				35.0	36.45	104.1	37.55	107.3	F
Mercury									NR
Nickel									NR
Selenium									NR
Silver									NR
Tin									NR
Thallium									NR
Vanadium									NR
Zinc									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Antimony									NR
Arsenic				35.0	36.32	103.8			F
Barium									NR
Beryllium									NR
Cadmium									NR
[illegible]omium									NR
[illegible]balt									NR
Copper									NR
Lead				35.0	37.24	106.4	34.89	99.7	F
Mercury									NR
Nickel									NR
Selenium									NR
Silver									NR
Tin									NR
Thallium									NR
Vanadium									NR
Zinc									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Lead				35.0	36.97	105.6			F
Mercury									NR
Nickel									NR
Selenium									NR
Silver									NR
Tin									NR
Thallium									NR
Vanadium									NR
Zinc									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
[illegible]omium									NR
[illegible]balt									NR
Copper									NR
Lead	25.0	26.26	105.0	35.0	36.74	105.0	37.02	105.8	F
Mercury									NR
Nickel									NR
Selenium									NR
Silver									NR
Tin									NR
Thallium									NR
Vanadium									NR
Zinc									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Initial Calibration Source: INORGAN VENT

Continuing Calibration Source: INORGAN VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Found	%R(1)	Continuing Calibration True	Found	%R(1)	Found	%R(1)	M
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Lead				35.0	37.41	106.9			F
Mercury									NR
Nickel									NR
Selenium									NR
Silver									NR
Tin									NR
Thallium									NR
Vanadium									NR
Zinc									NR

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

AA CRDL Standard Source: INORGAN VENT

ICP CRDL Standard Source: INORGAN VENT

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Antimony				120.0	137.25	114.4	129.48	107.9
Arsenic	10.0	9.38	93.8					
Barium				400.0	412.11	103.0	419.03	104.8
Beryllium				10.0	10.75	107.5	10.87	108.7
Cadmium				10.0	9.56	95.6	10.36	103.6
[illegible]omium				20.0	20.16	100.8	22.02	110.1
[illegible]alt				100.0	108.53	108.5	109.03	109.0
Copper				50.0	52.70	105.4	53.52	107.0
Lead	3.0	2.70	90.0					
Mercury	0.2	0.17	85.0					
Nickel				80.0	88.34	110.4	90.02	112.5
Selenium	5.0	6.05	121.0					
Silver				20.0	20.56	102.8	21.32	106.6
Tin				200.0	212.20	106.1	215.97	108.0
Thallium	10.0	10.78	107.8					
Vanadium				100.0	106.50	106.5	106.70	106.7
Zinc				40.0	41.28	103.2	42.67	106.7

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2B
CRDL STANDARD FOR AA AND ICP

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

AA CRDL Standard Source: INORGAN VENT

ICP CRDL Standard Source: INORGAN VENT

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial True	Initial Found	Initial %R	Final Found	Final %R
Antimony				120.0	124.44	103.7	120.24	100.2
Arsenic	10.0	9.79	97.9					
Barium				400.0	413.17	103.3	427.36	106.8
Beryllium				10.0	10.38	103.8	13.38	133.8
Cadmium				10.0	10.03	100.3	9.73	97.3
Chromium				20.0	20.47	102.4	17.85	89.2
Cobalt				100.0	108.44	108.4	106.78	106.8
Copper				50.0	62.39	124.8	61.46	122.9
Lead	3.0	2.44	81.3					
Mercury	0.2	0.20	100.0					
Nickel				80.0	84.99	106.2	85.36	106.7
Selenium	5.0	5.58	111.6					
Silver				20.0	20.33	101.6	19.06	95.3
Tin				200.0	194.22	97.1	196.58	98.3
Thallium								
Vanadium				100.0	106.64	106.6	106.32	106.3
Zinc				40.0	41.51	103.8	41.39	103.5

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

AA CRDL Standard Source: INORGAN VENT

ICP CRDL Standard Source: INORGAN VENT

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial True	Initial Found	Initial %R	Final Found	Final %R
Antimony								
Arsenic	10.0	10.05	100.5					
Barium								
Beryllium								
Cadmium								
Chromium								
Cobalt								
Copper								
Lead	3.0	3.13	104.3					
Mercury								
Nickel								
Selenium	5.0	4.62	92.4					
Silver								
Tin								
Thallium								
Vanadium								
Zinc								

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

AA CRDL Standard Source: INORGAN VENT

ICP CRDL Standard Source: INORGAN VENT

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Antimony								
Arsenic								
Barium								
Beryllium								
Cadmium								
C omium								
C alt								
Copper								
Lead	3.0	2.85	95.0					
Mercury								
Nickel								
Selenium								
Silver								
Tin								
Thallium								
Vanadium								
Zinc								

3
BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Antimony	10.9	U	10.9	U	10.9	U	10.9	U	10.900	U	P
Arsenic	1.9	U	1.9	U	1.9	U	1.9	U	1.900	U	F
Barium	1.2	B	1.3	B	1.2	B	2.1	B	0.800	U	P
Beryllium	0.6	B	0.3	B	0.7	B	0.5	B	0.300	U	P
Cadmium	2.9	U	2.9	U	2.9	U	2.9	U	2.900	U	P
Chromium	4.7	U	4.7	U	4.7	U	4.7	U	4.700	U	P
Cobalt	2.3	U	2.3	U	2.3	U	2.3	U	2.300	U	P
Copper	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	P
Lead	1.2	U	1.2	U	1.2	U	1.2	U	1.200	U	F
Mercury	0.2	U	0.2	U	0.2	U			0.200	U	CV
Nickel	4.2	U	4.2	U	4.2	U	4.2	U	4.200	U	P
Selenium	1.4	U	1.4	U	1.4	U	1.4	U	1.400	U	F
Silver	2.5	U	2.5	U	2.5	U	2.5	U	2.500	U	P
Tin	18.4	U	18.4	U	18.4	U	18.4	U	18.400	U	P
Thallium	1.7	U	1.7	U	1.7	U	1.7	U	1.700	U	F
Vanadium	2.1	U	2.1	U	2.1	U	2.1	U	2.100	U	P
Zinc	1.9	U	1.9	U	1.9	U	1.9	U	1.900	U	P

U.S. EPA - CLP

3
BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Preparation Blank Matrix (soil/water): SOIL_

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Antimony			10.9	U					2.180	U	P
Arsenic			1.9	U	1.9	U	1.9	U	0.380	U	F
Barium			1.6	B					-0.162	B	P
P yllium			0.7	B					0.064	B	P
C mium			2.9	U					0.580	U	P
Chromium			4.7	U					0.940	U	P
Cobalt			2.3	U					0.460	U	P
Copper			4.0	U					0.800	U	P
Lead			1.2	U	1.2	U	1.2	U	0.240	U	F
Mercury	0.2	U	0.2	U					0.100	U	CV
Nickel			4.2	U					0.840	U	P
Selenium	1.4	U	1.4	U	1.4	U	1.4	U	0.280	U	F
Silver			2.5	U					0.500	U	P
Tin			18.4	U					3.760	B	P
Thallium			1.7	U	1.7	U	1.7	U	0.340	U	F
Vanadium			2.1	U					0.420	U	P
Zinc			1.9	U					0.380	U	P

3
BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Antimony	10.9	U	10.9	U	10.9	U	10.9	U			P
Arsenic			1.9	U	1.9	U					F
Barium	0.8	U	0.8	U	0.8	U	0.9	B			P
Beryllium	0.5	B	0.3	B	0.3	U	0.5	B			P
Cadmium	2.9	U	2.9	U	2.9	U	2.9	U			P
Chromium	4.7	U	4.7	U	4.7	U	4.7	U			P
Cobalt	2.3	U	2.3	U	2.3	U	2.3	U			P
Copper	6.1	B	9.0	B	4.0	U	4.0	U			P
Lead			1.2	U	1.2	U	1.2	U			F
Mercury											NR
Nickel	4.2	U	4.2	U	4.2	U	4.2	U			P
Selenium	1.4	U	1.4	U	1.4	U	1.4	U			F
Silver	2.5	U	2.5	U	2.5	U	2.5	U			P
Tin	18.4	U	18.4	U	18.4	U	18.4	U			P
Thallium			1.7	U	1.7	U	1.7	U			F
Vanadium	2.1	U	2.1	U	2.1	U	2.1	U			P
Zinc	-2.5	B	-2.8	B	1.9	U	-3.2	B			P

U.S. EPA - CLP

3
BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Antimony											NR
Arsenic	1.9	U	1.9	U	1.9	U	1.9	U			F
Barium											NR
Beryllium											NR
Cadmium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Lead			1.2	U	1.2	U					F
Mercury											NR
Nickel											NR
Selenium											NR
Silver											NR
Tin											NR
Thallium			1.7	U	1.7	U	1.7	U			F
Vanadium											NR
Zinc											NR

3
BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Antimony											NR
Arsenic			1.9	U							F
Barium											NR
Beryllium											NR
Cadmium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Lead	1.2	U	1.2	U	1.2	U	1.2	U			F
Mercury											NR
Nickel											NR
Selenium											NR
Silver											NR
Tin											NR
Thallium			1.7	U							F
Vanadium											NR
Zinc											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Antimony											NR
Arsenic	1.9	U	1.9	U	1.9	U	1.9	U			F
Barium											NR
Beryllium											NR
Cadmium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Lead			1.2	U	1.2	U					F
Mercury											NR
Nickel											NR
Selenium											NR
Silver											NR
Tin											NR
Thallium											NR
Vanadium											NR
Zinc											NR

3
BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Antimony											NR
Arsenic			1.9	U	1.9	U	1.9	U			F
Barium											NR
Beryllium											NR
Cadmium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Lead	1.2	U	1.2	U	1.2	U	1.2	U			F
Mercury											NR
Nickel											NR
Selenium											NR
Silver											NR
Tin											NR
Thallium											NR
Vanadium											NR
Zinc											NR

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3
BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Antimony											NR
Arsenic			1.9	U	1.9	U	1.9	U			F
Barium											NR
Beryllium											NR
Cadmium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Lead			1.2	U	1.2	U	1.2	U			F
Mercury											NR
Nickel											NR
Selenium											NR
Silver											NR
Tin											NR
Thallium											NR
Vanadium											NR
Zinc											NR

3
BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Antimony											NR
Arsenic			1.9	U	1.9	U	1.9	U			F
Barium											NR
Beryllium											NR
Cadmium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Lead			1.2	U	1.2	U	1.2	U			F
Mercury											NR
Nickel											NR
Selenium											NR
Silver											NR
Tin											NR
Thallium											NR
Vanadium											NR
Zinc											NR

U.S. EPA - CLP

3
BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Antimony											NR
Arsenic			1.9	U	1.9	U	1.9	U			F
Barium											NR
Beryllium											NR
Cadmium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Lead			1.2	U	1.2	U					F
Mercury											NR
Nickel											NR
Selenium											NR
Silver											NR
Tin											NR
Thallium											NR
Vanadium											NR
Zinc											NR

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3
BLANKS

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Preparation Blank Matrix (soil/water): _____

Preparation Blank Concentration Units (ug/L or mg/kg): _____

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Lead	1.2	U	1.2	U	1.2	U	1.2	U			F
Mercury											NR
Nickel											NR
Selenium											NR
Silver											NR
Tin											NR
Thallium											NR
Vanadium											NR
Zinc											NR

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No: _____ SDG No.: G21101

ICP ID Number: ICP1_____ ICS Source: INORGAN VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Antimony	0	0	9	21.1		16	1.3	
Arsenic								
Barium	0	500	2	497.1	99.4	2	501.0	100.2
Beryllium	0	500	0	494.9	99.0	0	496.0	99.2
Cadmium	0	1000	5	1004.7	100.5	0	1000.4	100.0
Chromium	0	500	0	482.3	96.5	3	485.2	97.0
Cobalt	0	500	0	485.9	97.2	1	490.4	98.1
Copper	0	500	5	520.3	104.1	5	524.4	104.9
Lead								
Mercury								
Nickel	0	1000	-10	959.1	95.9	-9	969.0	96.9
Selenium								
Silver	0	1000	-12	1012.6	101.3	-10	1014.9	101.5
Tin	0	0	30	13.0		37	15.6	
Thallium								
Vanadium	0	500	4	501.4	100.3	3	503.1	100.6
Zinc	0	1000	-20	965.1	96.5	-22	966.9	96.7

U.S. EPA - CLP

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No: _____ SDG No.: G21101

ICP ID Number: ICP1_____ ICS Source: INORGAN VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Antimony	0	0	2	4.7		2	-6.4	
Arsenic								
Barium	0	500	2	490.5	98.1	5	495.9	99.2
Beryllium	0	500	0	487.3	97.5	1	484.7	96.9
Cadmium	0	1000	2	973.4	97.3	5	984.2	98.4
Chromium	0	500	0	474.6	94.9	2	472.0	94.4
Cobalt	0	500	-1	473.4	94.7	-1	473.0	94.6
Copper	0	500	8	512.6	102.5	9	515.2	103.0
Lead								
Mercury								
Nickel	0	1000	-11	939.8	94.0	-11	934.6	93.5
Selenium								
Silver	0	1000	-10	987.1	98.7	-9	998.3	99.8
Tin	0	0	-22	-10.2		0	8.0	
Thallium								
Vanadium	0	500	2	491.3	98.3	2	491.8	98.4
Zinc	0	1000	-25	941.7	94.2	-23	940.2	94.0

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

G21101S

Lab Name: WESTON_EMI Contract:

Lab Code: WESEMI Case No.: SAS No.: SDG No.: G21101

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75-125	511.2700		10.9000	U	500.00	102.3		P
Arsenic	75-125	37.7600		1.9000	U	40.00	94.4		F
Barium	75-125	1970.7100		59.3100	B	2000.00	95.6		P
Beryllium	75-125	47.9600		0.6100	B	50.00	94.7		P
Cadmium	75-125	47.7000		2.9000	U	50.00	95.4		P
Chromium	75-125	193.7300		4.7000	U	200.00	96.9		P
Cobalt	75-125	517.2600		20.5000	B	500.00	99.4		P
Copper	75-125	246.5300		4.0400	B	250.00	97.0		P
Lead	75-125	15.8900		1.2000	U	20.00	79.4		F
Mercury	75-125	0.9710		0.2000	U	1.00	97.1		CV
Nickel		4958.5100		4403.2500		500.00	111.1		P
Selenium	75-125	9.0800		1.4000	U	10.00	90.8		F
Silver	75-125	45.8500		2.5000	U	50.00	91.7		P
Tin	75-125	943.5900		18.4000	U	1000.00	94.4		P
Thallium	75-125	40.7600		1.7000	U	50.00	81.5		F
Vanadium	75-125	495.0300		2.1000	U	500.00	99.0		P
Zinc	75-125	1932.1200		1434.0200		500.00	99.6		P

Comments:

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.
G21102S

Lab Name: WESTON_EMI Contract:

Lab Code: WESEMI Case No.: SAS No.: SDG No.: G21101

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75-125	524.6300		10.9000	U	500.00	104.9		P
Arsenic	75-125	38.4900		1.9000	U	40.00	96.2		F
Barium	75-125	2006.1800		55.7700	B	2000.00	97.5		P
Beryllium	75-125	48.7000		0.6200	B	50.00	96.2		P
Cadmium	75-125	48.9600		2.9000	U	50.00	97.9		P
Chromium	75-125	197.0500		4.7000	U	200.00	98.5		P
Cobalt	75-125	523.4600		20.0300	B	500.00	100.7		P
Copper	75-125	252.6600		4.0000	U	250.00	101.1		P
[illegible]d	75-125	15.6800		1.2000	U	20.00	78.4		F
[illegible]cury	75-125	1.1640		0.2000	U	1.00	116.4		CV
Nickel		4957.0000		4247.1100		500.00	142.0		P
Selenium	75-125	8.8000		1.4000	U	10.00	88.0		F
Silver	75-125	46.4800		2.5000	U	50.00	93.0		P
Tin	75-125	951.6200		18.4000	U	1000.00	95.2		P
Thallium	75-125	42.7800		1.7000	U	50.00	85.6		F
Vanadium	75-125	502.1600		2.1000	U	500.00	100.4		P
Zinc	75-125	1935.5100		1388.2800		500.00	109.4		P

Comments:

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

G21115S

Lab Name: WESTON_EMI Contract:

Lab Code: WESEMI Case No.: SAS No.: SDG No.: G21101

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 96.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Antimony	75-125	68.8997		2.1582	U	96.25	71.6	N	P
Arsenic	75-125	8.7716		2.8047		6.11	97.7		F
Barium	75-125	393.7649		7.5695	B	385.00	100.3		P
Beryllium	75-125	9.3440		0.1861	B	9.63	95.1		P
Cadmium	75-125	10.3161		0.5742	U	9.63	107.1		P
Chromium	75-125	45.2780		7.1933		38.50	98.9		P
Cobalt	75-125	97.7285		2.6888	B	96.25	98.7		P
Copper	75-125	56.1581		6.7082		48.13	102.7		P
Lead	75-125	6.2049		3.6128		3.06	84.7		F
Mercury	75-125	0.4233		0.0866	U	0.42	100.8		CV
Nickel	75-125	119.6985		37.2597		96.25	85.7		P
Selenium	75-125	1.1526		0.2746	U	1.53	75.3		F
Silver	75-125	8.7876		0.4950	U	9.63	91.3		P
Tin	75-125	184.3574		3.6432	U	192.50	95.8		P
Thallium	75-125	6.4480		0.3334	U	7.64	84.4		F
Vanadium	75-125	110.0312		10.3891		96.25	103.5		P
Zinc	75-125	108.2525		19.5565		96.25	92.2		P

Comments:

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

G21115A

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Matrix (soil/water) : SOIL__ Level (low/med): LOW___

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Added (SA)	%R	Q	M
Antimony		118.48		10.90	U	120.0	98.7		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Lead									NR
M cury									NR
N kel									NR
Selenium									NR
Silver									NR
Tin									NR
Thallium									NR
Vanadium									NR
Zinc									NR

Comments:

6
DUPLICATES

EPA SAMPLE NO.

G21101D

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Matrix (soil/water): WATER Level (low/med): _LOW__

% Solids for Sample: __0.0 % Solids for Duplicate: ___0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Antimony		10.9000	U	10.9000	U			P
Arsenic		1.9000	U	1.9000	U			F
Barium		59.3100	B	58.4400	B	1.5		P
Beryllium		0.6100	B	0.6000	B	1.7		P
Cadmium		2.9000	U	2.9000	U			P
Chromium		4.7000	U	4.7000	U			P
Cobalt		20.5000	B	19.5900	B	4.5		P
Copper		4.0400	B	5.3000	B	27.0		P
Lead		1.2000	U	1.2000	U			F
Mercury		0.2000	U	0.2000	U			CV
Nickel		4403.2500		4318.7900		1.9		P
Selenium		1.4000	U	1.4000	U			F
Silver		2.5000	U	2.5000	U			P
Tin		18.4000	U	18.4000	U			P
Thallium		1.7000	U	1.7000	U			F
Vanadium		2.1000	U	2.1000	U			P
Zinc		1434.0200		1400.6300		2.4		P

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6
DUPLICATES

EPA SAMPLE NO.

G21102D

Lab Name: WESTON_EMI Contract:

Lab Code: WESEMI Case No.: SAS No.: SDG No.: G21101

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Antimony		10.9000	U	10.9000	U			P
Arsenic		1.9000	U	1.9000	U			F
Barium		55.7700	B	59.8800	B	7.1		P
Beryllium		0.6200	B	0.6100	B	1.6		P
Cadmium		2.9000	U	2.9000	U			P
Chromium		4.7000	U	4.7000	U			P
Cobalt		20.0300	B	21.6900	B	8.0		P
Copper		4.0000	U	4.1100	B	200.0		P
Lead		1.2000	U	1.2000	U			F
Mercury		0.2000	U	0.2000	U			CV
Nickel		4247.1100		4496.1900		5.7		P
Selenium		1.4000	U	1.4000	U			F
Silver		2.5000	U	2.5000	U			P
Tin		18.4000	U	18.4000	U			P
Thallium		1.7000	U	1.7000	U			F
Vanadium		2.1000	U	2.1000	U			P
Zinc		1388.2800		1448.7600		4.3		P

6
DUPLICATES

EPA SAMPLE NO.

G21115D

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Matrix (soil/water): SOIL_ Level (low/med): _LOW__

% Solids for Sample: _96.2 % Solids for Duplicate: __96.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Antimony		2.1582	U	1.9878	U			P
Arsenic	2.0	2.8047		2.8844		2.8		F
Barium		7.5695	B	10.0996	B	28.6		P
Beryllium		0.1861	B	0.1131	B	48.8		P
Cadmium		0.5742	U	0.5289	U			P
Chromium	2.0	7.1933		6.7732		6.0		P
Cobalt		2.6888	B	2.3471	B	13.6		P
Copper	5.0	6.7082		8.3853		22.2		P
Lead		3.6128		3.5587		1.5		F
Mercury		0.0866	U	0.0945	U			CV
Nickel	7.9	37.2597		61.4345		49.0	*	P
Selenium		0.2746	U	0.2622	U			F
Silver		0.4950	U	0.4559	U			P
Tin		3.6432	U	3.3556	U			P
Thallium		0.3334	U	0.3184	U			F
Vanadium	9.9	10.3891		11.2740		8.2		P
Zinc	4.0	19.5565		16.1688		19.0		P

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LABORATORY CONTROL SAMPLE

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Solid LCS Source: _____

Aqueous LCS Source: INORGANI VEN

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Antimony	500.0	499.73	99.9						
Arsenic									
Barium	2000.0	1856.55	92.8						
Beryllium	50.0	45.48	91.0						
Cadmium	50.0	49.50	99.0						
Chromium	200.0	194.31	97.2						
Cobalt	500.0	494.89	99.0						
Copper	250.0	237.99	95.2						
Lead									
Mercury									
Nickel	500.0	502.95	100.6						
Selenium									
Silver	50.0	44.75	89.5						
Tin	1000.0	970.23	97.0						
Thallium									
Vanadium	500.0	487.42	97.5						
Zinc	500.0	487.76	97.6						

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LABORATORY CONTROL SAMPLE

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Solid LCS Source: _____

Aqueous LCS Source: INORGANI VEN

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Antimony									
Arsenic	40.0	34.02	85.0						
Barium									
Beryllium									
Cadmium									
Chromium									
Cobalt									
Copper									
Lead	20.0	18.01	90.0						
Mercury									
Nickel									
Selenium	10.0	11.45	114.5						
Silver									
Tin									
Thallium	50.0	45.44	90.9						
Vanadium									
Zinc									

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LABORATORY CONTROL SAMPLE

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Solid LCS Source: INORGAN VENT

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Antimony				100.0	99.4		80.0	120.0	99.4
Arsenic									
Barium				400.0	391.8		320.0	480.0	98.0
Beryllium				10.0	9.3		8.0	12.0	93.0
Cadmium				10.0	10.6		8.0	12.0	106.0
Chromium				40.0	39.6		32.0	48.0	99.0
Cobalt				100.0	100.8		80.0	120.0	100.8
Copper				50.0	51.5		40.0	60.0	103.0
Lead									
Mercury									
Nickel				100.0	100.7		80.0	120.0	100.7
Selenium									
Silver				10.0	9.4		8.0	12.0	94.0
Tin				200.0	195.4		160.0	240.0	97.7
Thallium									
Vanadium				100.0	100.7		80.0	120.0	100.7
Zinc				100.0	95.5		80.0	120.0	95.5

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LABORATORY CONTROL SAMPLE

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Solid LCS Source: INORGAN VENT

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Antimony									
Arsenic				8.0	7.4		6.4	9.6	92.5
Barium									
Beryllium									
Cadmium									
Chromium									
Cobalt									
Copper									
Lead				4.0	4.5		3.2	4.8	112.5
Mercury									
Nickel									
Selenium				2.0	1.6		1.6	2.4	80.0
Silver									
Tin									
Thallium				10.0	9.4		8.0	12.0	94.0
Vanadium									
Zinc									

7
LABORATORY CONTROL SAMPLE

Lab Name: WESTON_EMI Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

Solid LCS Source: INORGAN VENT

Aqueous LCS Source: _____

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Chromium									
Cobalt									
Copper									
Lead									
Mercury				1.0	1.0		0.7	1.4	100.0
Nickel									
Selenium									
Silver									
Tin									
Thallium									
Vanadium									
Zinc									

8
STANDARD ADDITION RESULTS

Lab Name: WESTON_EMI_____ Contract:_____

Lab Code: WESEMI Case No.: _____ SAS No.:_____ SDG No.:G21101

Concentration Units: ug/L

EPA Sample No.	An	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q
G21103__	AS	0.119	_10.00	0.168	_20.00	0.213	_30.00	0.273	___23.1	0.9981	_
G21111__	AS	0.071	_10.00	0.133	_20.00	0.182	_30.00	0.242	___12.9	0.9991	_
G21112__	AS	0.093	_10.00	0.138	_20.00	0.172	_30.00	0.218	___23.0	0.9984	_
G21115__	AS	0.080	_10.00	0.140	_20.00	0.196	_30.00	0.251	___14.3	0.9998	_
G21115D_	AS	0.081	_10.00	0.131	_20.00	0.189	_30.00	0.236	___15.4	0.9993	_
G21115D_	PB	0.049	_10.00	0.082	_20.00	0.107	_30.00	0.131	___19.0	0.9969	_

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ICP SERIAL DILUTION

EPA SAMPLE NO.
G21101L

Lab Name: WESTON_EMI Contract:

Lab Code: WESEMI Case No.: SAS No.: SDG No.: G21101

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Antimony	10.90	U	54.50	U			P
Arsenic							NR
Barium	59.31	B	60.55	B	2.1		P
Beryllium	0.61	B	1.50	U	100.0		P
Cadmium	2.90	U	14.50	U			P
Chromium	4.70	U	23.50	U			P
Cobalt	20.50	B	16.90	B	17.6		P
Copper	4.04	B	20.00	U	100.0		P
Lead							NR
Mercury							NR
Nickel	4403.25		4580.60		4.0		P
Selenium							NR
Silver	2.50	U	12.50	U			P
Tin	18.40	U	92.00	U			P
Thallium							NR
Vanadium	2.10	U	10.50	U			P
Zinc	1434.02		1447.80		1.0		P

9
ICP SERIAL DILUTION

EPA SAMPLE NO.
G21102L

Lab Name: WESTON_EMI Contract:

Lab Code: WESEMI Case No.: SAS No.: SDG No.: G21101

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Antimony	10.90	U	54.50	U			P
Arsenic							NR
Barium	55.77	B	57.70	B	3.5		P
Beryllium	0.62	B	1.50	U	100.0		P
Cadmium	2.90	U	14.50	U			P
Chromium	4.70	U	23.50	U			P
Cobalt	20.03	B	16.05	B	19.9		P
Copper	4.00	U	20.00	U			P
Lead							NR
Mercury							NR
Nickel	4247.11		4402.95		3.7		P
Selenium							NR
Silver	2.50	U	12.50	U			P
Tin	18.40	U	92.00	U			P
Thallium							NR
Vanadium	2.10	U	10.50	U			P
Zinc	1388.28		1433.95		3.3		P

9
ICP SERIAL DILUTION

EPA SAMPLE NO.
G21115L

Lab Name: WESTON_EMI Contract:

Lab Code: WESEMI Case No.: SAS No.: SDG No.: G21101

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Antimony	10.90	U	54.50	U			P
Arsenic							NR
Barium	38.23	B	33.45	B	12.5		P
Beryllium	0.94	B	1.50	U	100.0		P
Cadmium	2.90	U	14.50	U			P
Chromium	36.33		38.30	B	5.4		P
Cobalt	13.58	B	11.50	U	100.0		P
Copper	33.88		88.75	B	162.0		P
Lead							NR
Mercury							NR
Nickel	188.18		194.50	B	3.4		P
Selenium							NR
Silver	2.50	U	12.50	U			P
Tin	18.40	U	92.00	U			P
Thallium							NR
Vanadium	52.47		47.75	B	9.0		P
Zinc	98.77		85.75	B	13.2	E	P

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PREPARATION LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.:_____ SAS No.: _____ SDG No.:G21101

Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
G21111	04/11/95	1.32	200
G21112	04/11/95	1.32	200
G21113	04/11/95	1.13	200
G21114	04/11/95	1.35	200
G21115	04/11/95	1.05	200
G21115D	04/11/95	1.14	200
G21115S	04/11/95	1.08	200
LCSS	04/11/95	1.00	200
PBS	04/11/95	1.00	200

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PREPARATION LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.:_____ SAS No.: _____ SDG No.:G21101

Method: P_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
G21101	04/12/95		50
G21101D	04/12/95		50
G21101S	04/12/95		50
G21102	04/12/95		50
G21102D	04/12/95		50
G21102S	04/12/95		50
G21103	04/12/95		50
G21104	04/12/95		50
G21105	04/12/95		50
G21106	04/12/95		50
G21107	04/12/95		50
G21108	04/12/95		50
G21109	04/12/95		50
G21110	04/12/95		50
LCSW	04/12/95		50
PBW	04/12/95		50

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PREPARATION LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.:_____ SAS No.: _____ SDG No.:G21101

Method: F_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
G21101	04/11/95		50
G21101D	04/11/95		50
G21101S	04/11/95		50
G21102	04/11/95		50
G21102D	04/11/95		50
G21102S	04/11/95		50
G21103	04/11/95		50
G21104	04/11/95		50
G21105	04/11/95		50
G21106	04/11/95		50
G21107	04/11/95		50
G21108	04/11/95		50
G21109	04/11/95		50
G21110	04/11/95		50
LCSW	04/11/95		50
PBW	04/11/95		50

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PREPARATION LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.:_____ SAS No.: _____ SDG No.:G21101

Method: F_

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
G21111	04/11/95	1.20	200
G21112	04/11/95	1.26	200
G21113	04/11/95	1.40	200
G21114	04/11/95	1.14	200
G21115	04/11/95	1.06	200
G21115D	04/11/95	1.11	200
G21115S	04/11/95	1.36	200
LCSS	04/11/95	1.00	200
PBS	04/11/95	1.00	200

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PREPARATION LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.:_____ SAS No.: _____ SDG No.:G21101

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
G21101	04/12/95		100
G21101D	04/12/95		100
G21101S	04/12/95		100
G21102	04/12/95		100
G21102D	04/12/95		100
G21102S	04/12/95		100
G21103	04/12/95		100
G21104	04/12/95		100
G21105	04/12/95		100
G21106	04/12/95		100
G21107	04/12/95		100
G21108	04/12/95		100
G21109	04/12/95		100
G21110	04/12/95		100
PBW	04/12/95		100

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PREPARATION LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.:_____ SAS No.: _____ SDG No.:G21101

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
G21111	04/12/95	0.28	100
G21112	04/12/95	0.29	100
G21113	04/12/95	0.22	100
G21114	04/12/95	0.25	100
G21115	04/12/95	0.24	100
G21115D	04/12/95	0.22	100
G21115S	04/12/95	0.25	100
LCSS	04/12/95	0.20	100
PBS	04/12/95	0.20	100

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: ICP1_____ Method: P_

Start Date: 04/14/95 End Date: 04/14/95

EPA Sample No.	D/F	Time	% R	Analytes																						
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN						
S0	1.00	1137		X		X	X	X	X	X	X			X		X	X		X	X						
S	1.00	1140		X		X	X	X	X	X	X			X		X	X		X	X						
ICV	1.00	1143		X		X	X	X	X	X	X			X		X	X		X	X						
ICB	1.00	1146		X		X	X	X	X	X	X			X		X	X		X	X						
CRI	1.00	1149		X		X	X	X	X	X	X			X		X	X		X	X						
ICSA	1.00	1153		X		X	X	X	X	X	X			X		X	X		X	X						
ICSAB	1.00	1156		X		X	X	X	X	X	X			X		X	X		X	X						
CCV	1.00	1158		X		X	X	X	X	X	X			X		X	X		X	X						
CCB	1.00	1202		X		X	X	X	X	X	X			X		X	X		X	X						
[illegible]	1.00	1205		X		X	X	X	X	X	X			X		X	X		X	X						
L[illegible]W	1.00	1208		X		X	X	X	X	X	X			X		X	X		X	X						
G21101	1.00	1210		X		X	X	X	X	X	X			X		X	X		X	X						
G21101D	1.00	1213		X		X	X	X	X	X	X			X		X	X		X	X						
G21101S	1.00	1216		X		X	X	X	X	X	X			X		X	X		X	X						
G21101L	5.00	1219		X		X	X	X	X	X	X			X		X	X		X	X						
ZZZZZZ	1.00	1222																								
G21102	1.00	1225		X		X	X	X	X	X	X			X		X	X		X	X						
G21102D	1.00	1228		X		X	X	X	X	X	X			X		X	X		X	X						
G21102S	1.00	1231		X		X	X	X	X	X	X			X		X	X		X	X						
CCV	1.00	1234		X		X	X	X	X	X	X			X		X	X		X	X						
CCB	1.00	1236		X		X	X	X	X	X	X			X		X	X		X	X						
G21102L	5.00	1239		X		X	X	X	X	X	X			X		X	X		X	X						
ZZZZZZ	1.00	1242																								
G21103	1.00	1245		X		X	X	X	X	X	X			X		X	X		X	X						
G21104	1.00	1248		X		X	X	X	X	X	X			X		X	X		X	X						
G21105	1.00	1251		X		X	X	X	X	X	X			X		X	X		X	X						
G21106	1.00	1254		X		X	X	X	X	X	X			X		X	X		X	X						
G21107	1.00	1257		X		X	X	X	X	X	X			X		X	X		X	X						
G21108	1.00	1300		X		X	X	X	X	X	X			X		X	X		X	X						
G21109	1.00	1302		X		X	X	X	X	X	X			X		X	X		X	X						
G21110	1.00	1305		X		X	X	X	X	X	X			X		X	X		X	X						
CCV	1.00	1308		X		X	X	X	X	X	X			X		X	X		X	X						

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: ICP1_____ Method: P_

Start Date: 04/14/95 End Date: 04/14/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN							
CCB	1.00	1311		X		X	X	X	X	X	X			X		X	X		X	X							
ZZZZZZ	5.00	1315																									
CRI	1.00	1318		X		X	X	X	X	X	X			X		X	X		X	X							
ICSA	1.00	1321		X		X	X	X	X	X	X			X		X	X		X	X							
ICSAB	1.00	1324		X		X	X	X	X	X	X			X		X	X		X	X							
CCV	1.00	1327		X		X	X	X	X	X	X			X		X	X		X	X							
CCB	1.00	1330		X		X	X	X	X	X	X			X		X	X		X	X							

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: ICP1_____ Method: P_

Start Date: 04/14/95 End Date: 04/14/95

EPA Sample No.	D/F	Time	% R	Analytes																						
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN						
S0	1.00	1407		X		X	X	X	X	X	X			X		X	X		X	X						
S	1.00	1410		X		X	X	X	X	X	X			X		X	X		X	X						
ICV	1.00	1413		X		X	X	X	X	X	X			X		X	X		X	X						
ICB	1.00	1416		X		X	X	X	X	X	X			X		X	X		X	X						
CRI	1.00	1419		X		X	X	X	X	X	X			X		X	X		X	X						
ICSA	1.00	1422		X		X	X	X	X	X	X			X		X	X		X	X						
ICSAB	1.00	1424		X		X	X	X	X	X	X			X		X	X		X	X						
CCV	1.00	1427		X		X	X	X	X	X	X			X		X	X		X	X						
CCB	1.00	1430		X		X	X	X	X	X	X			X		X	X		X	X						
P[illegible]	1.00	1433		X		X	X	X	X	X	X			X		X	X		X	X						
L[illegible]S	1.00	1436		X		X	X	X	X	X	X			X		X	X		X	X						
G21111	1.00	1439		X		X	X	X	X	X	X			X		X	X		X	X						
G21112	1.00	1442		X		X	X	X	X	X	X			X		X	X		X	X						
G21113	1.00	1445		X		X	X	X	X	X	X			X		X	X		X	X						
G21114	1.00	1448		X		X	X	X	X	X	X			X		X	X		X	X						
G21115	1.00	1451		X		X	X	X	X	X	X			X		X	X		X	X						
G21115D	1.00	1454		X		X	X	X	X	X	X			X		X	X		X	X						
G21115S	1.00	1457		X		X	X	X	X	X	X			X		X	X		X	X						
G21115L	5.00	1500		X		X	X	X	X	X	X			X		X	X		X	X						
CCV	1.00	1503		X		X	X	X	X	X	X			X		X	X		X	X						
CCB	1.00	1506		X		X	X	X	X	X	X			X		X	X		X	X						
G21115A	1.00	1510		X																						
ZZZZZZ	1.00	1513																								
CRI	1.00	1516		X		X	X	X	X	X	X			X		X	X		X	X						
ICSA	1.00	1518		X		X	X	X	X	X	X			X		X	X		X	X						
ICSAB	1.00	1521		X		X	X	X	X	X	X			X		X	X		X	X						
CCV	1.00	1524		X		X	X	X	X	X	X			X		X	X		X	X						
CCB	1.00	1527		X		X	X	X	X	X	X			X		X	X		X	X						

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA6_____ Method: F_

Start Date: 04/11/95 End Date: 04/12/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN							
S0	1.00	1845			X																						
S10	1.00	1851			X																						
S20	1.00	1856			X																						
S30	1.00	1902			X																						
S50	1.00	1907			X																						
S70	1.00	1913			X																						
ICV	1.00	1918			X																						
ICB	1.00	1924			X																						
CRA	1.00	1929			X																						
[illegible]	1.00	1935			X																						
[illegible]	1.00	1941			X																						
ZZZZZZ	1.00	1946																									
ZZZZZZA	1.00	1952	98.5																								
ZZZZZZ	1.00	1957																									
ZZZZZZA	1.00	2003	94.4																								
ZZZZZZ	1.00	2008																									
ZZZZZZA	1.00	2014	94.0																								
PBW	1.00	2020			X																						
PBWA	1.00	2025	105.2		X																						
CCV	1.00	2031			X																						
CCB	1.00	2037			X																						
LCSW	1.00	2042			X																						
LCSWA	1.00	2048	105.8		X																						
G21101	1.00	2053			X																						
G21101A	1.00	2059	110.7		X																						
G21101D	1.00	2105			X																						
G21101DA	1.00	2110	114.3		X																						
G21101S	1.00	2116			X																						
G21101SA	1.00	2121	105.7		X																						
CCV	1.00	2127			X																						
CCB	1.00	2133			X																						
G21102	1.00	2138			X																						

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA6_____ Method: F_

Start Date: 04/11/95 End Date: 04/12/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN							
G21102A_	1.00	2144	107.8	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
G21102D_	1.00	2149		_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
G21102DA	1.00	2155	113.9	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
G21102S_	1.00	2201		_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
G21102SA	1.00	2206	110.6	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
G21103__	1.00	2212		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
G21103A_	1.00	2217	122.7	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CCV_____	1.00	2223		_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CCB_____	1.00	2229		_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
G21104__	1.00	2234		_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
G21104A_	1.00	2240	121.3	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
G21105__	1.00	2245		_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
G21105A_	1.00	2251	122.9	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
G21106__	1.00	2257		_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
G21106A_	1.00	2303	118.3	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
G21107__	1.00	2308		_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
G21107A_	1.00	2314	126.1	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CCV_____	1.00	2319		_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CCB_____	1.00	2325		_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
G21108__	1.00	2331		_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
G21108A_	1.00	2336	116.9	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
G21109__	1.00	2342		_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
G21109A_	1.00	2348	123.9	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
G21110__	1.00	2353		_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
G21110A_	1.00	2359	114.9	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
PBS_____	1.00	0005		_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
PBSA____	1.00	0011	105.1	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CCV_____	1.00	0016		_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
CCB_____	1.00	0022		_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
LCSS____	1.00	0027		_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
LCSSA___	1.00	0033	92.2	_	X	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
G21111__	1.00	0039		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA6_____ Method: F_

Start Date: 04/11/95 End Date: 04/12/95

EPA Sample No.	D/F	Time	% R	Analytes																								
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN								
G21111A	1.00	0045	115.9																									
G21112	1.00	0050																										
G21112A	1.00	0056	117.4																									
G21113	1.00	0102			X																							
G21113A	1.00	0107	101.9		X																							
CCV	1.00	0113			X																							
CCB	1.00	0119			X																							
G21114	1.00	0124			X																							
G21114A	1.00	0130	109.0		X																							
G21115	1.00	0136																										
G21115A	1.00	0141	127.8																									
G21115D	1.00	0147																										
G21115DA	1.00	0153	123.9																									
G21115S	1.00	0158			X																							
G21115SA	1.00	0204	-9999.9		X																							
CCV	1.00	0210			X																							
CCB	1.00	0215			X																							

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA4_____ Method: F_

Start Date: 04/14/95 End Date: 04/14/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN							
S0.0	1.00	1618			X																						
S10.0	1.00	1624			X																						
S20.0	1.00	1630			X																						
S30.0	1.00	1636			X																						
S50.0	1.00	1642			X																						
S70.0	1.00	1648			X																						
ICV	1.00	1654			X																						
ICB	1.00	1700			X																						
CRA	1.00	1706			X																						
[illegible]	1.00	1712			X																						
[illegible]	1.00	1717			X																						
ZZZZZZ	1.00	1724																									
ZZZZZZA	1.00	1729	88.0																								
CCV	1.00	1735			X																						
CCB	1.00	1741			X																						
CCV	1.00	1748			X																						
CCB	1.00	1751			X																						
G211030	1.00	1754			X																						
G211031	1.00	1757			X																						
G211032	1.00	1800			X																						
G211033	1.00	1803			X																						
G211110	2.00	1806			X																						
G211111	2.00	1809			X																						
G211112	2.00	1811			X																						
G211113	2.00	1814			X																						
G211150	1.00	1817			X																						
G211151	1.00	1820			X																						
G211152	1.00	1823			X																						
G211153	1.00	1826			X																						
G21115D0	1.00	1829			X																						
G21115D1	1.00	1832			X																						
G21115D2	1.00	1835			X																						

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA4_____ Method: F_

Start Date: 04/14/95 End Date: 04/14/95

EPA Sample No.	D/F	Time	% R	Analytes																								
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN								
G21115D3	1.00	1838			X																							
CCV	1.00	1841			X																							
CCB	1.00	1844			X																							

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA4_____ Method: F_

Start Date: 04/17/95 End Date: 04/17/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN							
S0.0	1.00	1018			X																						
S10.0	1.00	1024			X																						
S20.0	1.00	1030			X																						
S30.0	1.00	1036			X																						
S50.0	1.00	1042			X																						
S70.0	1.00	1048			X																						
ICV	1.00	1054			X																						
ICB	1.00	1100			X																						
CRA	1.00	1106			X																						
C[illegible]	1.00	1112			X																						
C[illegible]	1.00	1118			X																						
ZZZZZZ	5.00	1124																									
ZZZZZZA	5.00	1130	98.5																								
ZZZZZZ	2.00	1136																									
ZZZZZZA	2.00	1142	85.6																								
ZZZZZZ	2.00	1148																									
ZZZZZZA	2.00	1153	78.6																								
ZZZZZZ	2.00	1159																									
ZZZZZZA	2.00	1205	77.8																								
CCV	1.00	1211			X																						
CCB	1.00	1217			X																						
ZZZZZZ	20.00	1223																									
ZZZZZZA	20.00	1229	90.5																								
ZZZZZZ	2.00	1235																									
ZZZZZZA	2.00	1241	71.6																								
ZZZZZZ	1.00	1247																									
ZZZZZZA	1.00	1253	97.7																								
ZZZZZZ	1.00	1259																									
ZZZZZZA	1.00	1305	96.7																								
CCV	1.00	1310			X																						
CCB	1.00	1316			X																						
ZZZZZZ	1.00	1322																									

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA4_____ Method: F_

Start Date: 04/17/95 End Date: 04/17/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN							
ZZZZZZA	1.00	1328	99.9																								
ZZZZZZ	1.00	1334																									
ZZZZZZA	1.00	1340	53.9																								
ZZZZZZ	2.00	1346																									
ZZZZZZA	2.00	1352	69.0																								
ZZZZZZ	20.00	1358																									
ZZZZZZA	20.00	1404	68.1																								
CCV	1.00	1410			X																						
CCB	1.00	1416			X																						
ZZZZZZ	20.00	1421																									
ZZZZZZA	20.00	1427	77.1																								
ZZZZZZ	20.00	1433																									
ZZZZZZA	20.00	1439	75.4																								
ZZZZZZ	4.00	1445																									
ZZZZZZA	4.00	1451	78.0																								
ZZZZZZ	40.00	1457																									
ZZZZZZA	40.00	1503	85.0																								
CCV	1.00	1508			X																						
CCB	1.00	1514			X																						
ZZZZZZ	40.00	1521																									
ZZZZZZA	40.00	1526	82.9																								
ZZZZZZ	40.00	1532																									
ZZZZZZA	40.00	1538	85.6																								
ZZZZZZ	1.00	1544																									
ZZZZZZA	1.00	1550	94.5																								
ZZZZZZ	1.00	1556																									
ZZZZZZA	1.00	1602	84.7																								
CCV	1.00	1608			X																						
CCB	1.00	1614			X																						
ZZZZZZ	1.00	1620																									
ZZZZZZA	1.00	1626	95.7																								
ZZZZZZ	5.00	1632																									

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA4_____ Method: F_

Start Date: 04/17/95 End Date: 04/17/95

EPA Sample No.	D/F	Time	% R	Analytes																						
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN						
ZZZZZZA_	5.00	1638	87.7																							
ZZZZZZ__	5.00	1644																								
ZZZZZZA_	5.00	1650	81.8																							
ZZZZZZ__	5.00	1656																								
ZZZZZZA_	5.00	1702	85.5																							
CCV_____	1.00	1708			X																					
CCB_____	1.00	1713			X																					
ZZZZZZ__	5.00	1719																								
ZZZZZZA_	5.00	1725	92.1																							
Z ZZZ__	5.00	1731																								
Z ZZZA_	5.00	1737	80.3																							
ZZZZZZ__	5.00	1743																								
ZZZZZZA_	5.00	1749	86.2																							
ZZZZZZ__	5.00	1755																								
ZZZZZZA_	5.00	1801	89.6																							
CCV_____	1.00	1807			X																					
CCB_____	1.00	1813			X																					
ZZZZZZ__	5.00	1819																								
ZZZZZZA_	5.00	1825	84.7																							
ZZZZZZ__	5.00	1831																								
ZZZZZZA_	5.00	1837	87.0																							
ZZZZZZ__	5.00	1843																								
ZZZZZZA_	5.00	1848	105.6																							
ZZZZZZ__	40.00	1854																								
ZZZZZZA_	40.00	1900	90.1																							
CCV_____	1.00	1906			X																					
CCB_____	1.00	1912			X																					
ZZZZZZ__	1.00	1918																								
ZZZZZZA_	1.00	1924	93.5																							
CCV_____	1.00	1930			X																					
CCB_____	1.00	1936			X																					
ZZZZZZ__	5.00	1944																								
_____																										

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA4_____ Method: F_

Start Date: 04/17/95 End Date: 04/17/95

EPA Sample No.	D/F	Time	% R	Analytes																								
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN								
ZZZZZZA	5.00	1950	83.3																									
ZZZZZZ	5.00	1956																										
ZZZZZZA	5.00	2002	77.7																									
ZZZZZZ	5.00	2008																										
ZZZZZZA	5.00	2013	79.6																									
ZZZZZZ	10.00	2019																										
ZZZZZZA	10.00	2025	86.9																									
CCV	1.00	2031			X																							
CCB	1.00	2037			X																							
[illegible]ZZZ	25.00	2043																										
[illegible]ZZZA	25.00	2049	101.3																									
ZZZZZZ	10.00	2055																										
ZZZZZZA	10.00	2101	101.9																									
ZZZZZZ	10.00	2107																										
CCV	1.00	2120			X																							
CCB	1.00	2126			X																							
ZZZZZZ	10.00	2132																										
ZZZZZZA	10.00	2138	97.6																									
ZZZZZZ	10.00	2143																										
ZZZZZZA	10.00	2149	95.7																									
ZZZZZZ	10.00	2155																										
ZZZZZZA	10.00	2201	93.6																									
CCV	1.00	2207			X																							
CCB	1.00	2213			X																							
CCV	1.00	2223			X																							
CCB	1.00	2226			X																							
G211120	1.00	2229			X																							
G211121	1.00	2232			X																							
G211122	1.00	2235			X																							
G211123	1.00	2238			X																							
CCV	1.00	2241			X																							
CCB	1.00	2244			X																							

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA3_____ Method: F_

Start Date: 04/11/95 End Date: 04/11/95

EPA Sample No.	D/F	Time	% R	Analytes																						
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN						
S0.0	1.00	1020										X														
S3.0	1.00	1025										X														
S10.0	1.00	1030										X														
S30.0	1.00	1035										X														
S50.0	1.00	1040										X														
S70.0	1.00	1045										X														
ICV	1.00	1050										X														
ICB	1.00	1055										X														
CRA	1.00	1100										X														
C [illegible]	1.00	1105										X														
C [illegible]	1.00	1111										X														
ZZZZZZ	1.00	1116																								
ZZZZZZA	1.00	1120	106.6																							
ZZZZZZ	1.00	1126																								
ZZZZZZA	1.00	1130	102.1																							
ZZZZZZ	1.00	1136																								
ZZZZZZA	1.00	1140	94.2																							
ZZZZZZ	1.00	1145																								
ZZZZZZA	1.00	1150	99.0																							
CCV	1.00	1155										X														
CCB	1.00	1200										X														
ZZZZZZ	1.00	1205																								
ZZZZZZA	1.00	1210	96.0																							
ZZZZZZ	1.00	1215																								
ZZZZZZA	1.00	1220	95.6																							
ZZZZZZ	1.00	1225																								
ZZZZZZA	1.00	1230	99.9																							
ZZZZZZ	1.00	1235																								
ZZZZZZA	1.00	1240	84.5																							
CCV	1.00	1245										X														
CCB	1.00	1250										X														
ZZZZZZ	1.00	1255																								

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA3_____ Method: F_

Start Date: 04/11/95 End Date: 04/11/95

EPA Sample No.	D/F	Time	% R	Analytes																								
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN								
ZZZZZZA	1.00	1300	89.1																									
ZZZZZZ	1.00	1305																										
ZZZZZZA	1.00	1310	47.6																									
ZZZZZZ	1.00	1315																										
ZZZZZZA	1.00	1320	49.0																									
ZZZZZZ	1.00	1325																										
ZZZZZZA	1.00	1330	45.5																									
CCV	1.00	1335										X																
CCB	1.00	1340										X																
ZZZZZ	1.00	1345																										
ZZZZA	1.00	1350	64.6																									
ZZZZZZ	1.00	1355																										
ZZZZZZA	1.00	1400	77.8																									
ZZZZZZ	1.00	1405																										
ZZZZZZA	1.00	1410	-9999.9																									
ZZZZZZ	1.00	1415																										
ZZZZZZA	1.00	1420	-9999.9																									
CCV	1.00	1425										X																
CCB	1.00	1430										X																
ZZZZZZ	1.00	1435																										
ZZZZZZA	1.00	1440	69.5																									
ZZZZZZ	1.00	1445																										
ZZZZZZA	1.00	1449	82.3																									
ZZZZZZ	1.00	1455																										
ZZZZZZA	1.00	1459	87.6																									
ZZZZZZ	1.00	1505																										
ZZZZZZA	1.00	1509	75.7																									
CCV	1.00	1515										X																
CCB	1.00	1520										X																
ZZZZZZ	1.00	1525																										
ZZZZZZA	1.00	1530	81.3																									
ZZZZZZ	1.00	1535																										

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA3_____ Method: F_

Start Date: 04/11/95 End Date: 04/11/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN							
ZZZZZZA	1.00	1540	91.7																								
ZZZZZZ	1.00	1545																									
ZZZZZZA	1.00	1550	89.1																								
ZZZZZZ	1.00	1555																									
ZZZZZZA	1.00	1600	90.2																								
CCV	1.00	1605										X															
CCB	1.00	1610										X															
ZZZZZZ	1.00	1615																									
ZZZZZZA	1.00	1620	78.3																								
[illegible]ZZZ	1.00	1625																									
[illegible]ZZZA	1.00	1630	84.2																								
ZZZZZZ	1.00	1635																									
ZZZZZZA	1.00	1640	95.2																								
ZZZZZZ	1.00	1645																									
ZZZZZZA	1.00	1650	91.3																								
CCV	1.00	1655										X															
CCB	1.00	1700										X															
ZZZZZZ	1.00	1705																									
ZZZZZZA	1.00	1710	15.3																								
ZZZZZZ	1.00	1715																									
ZZZZZZA	1.00	1720	83.6																								
ZZZZZZ	1.00	1725																									
ZZZZZZA	1.00	1730	77.0																								
ZZZZZZ	1.00	1735																									
ZZZZZZA	1.00	1740	67.5																								
CCV	1.00	1745										X															
CCB	1.00	1750										X															
ZZZZZZ	1.00	1755																									
ZZZZZZA	1.00	1800	75.8																								
CCV	1.00	1805										X															
CCB	1.00	1810										X															
ZZZZZZ	1.00	1820																									

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA3_____ Method: F_

Start Date: 04/11/95 End Date: 04/11/95

EPA Sample No.	D/F	Time	% R	Analytes																								
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN								
ZZZZZZA	1.00	1824	79.2																									
ZZZZZZ	1.00	1830																										
ZZZZZZA	1.00	1834	78.4																									
ZZZZZZ	1.00	1840																										
ZZZZZZA	1.00	1844	86.5																									
PBW	1.00	1849										X																
PBWA	1.00	1854	95.1									X																
CCV	1.00	1859										X																
CCB	1.00	1904										X																

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA3_____ Method: F_

Start Date: 04/12/95 End Date: 04/12/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN							
S0.0	1.00	0946										X															
S3.0	1.00	0951										X															
S10.0	1.00	0956										X															
S30.0	1.00	1001										X															
S50.0	1.00	1006										X															
S70.0	1.00	1011										X															
ICV	1.00	1016										X															
ICB	1.00	1021										X															
CRA	1.00	1026										X															
C	1.00	1031										X															
C	1.00	1036										X															
LCSW	1.00	1041										X															
LCSWA	1.00	1046	100.1									X															
G21101	1.00	1051										X															
G21101A	1.00	1056	95.9									X															
G21101D	1.00	1101										X															
G21101DA	1.00	1106	94.1									X															
G21101S	1.00	1111										X															
G21101SA	1.00	1116	96.4									X															
CCV	1.00	1121										X															
CCB	1.00	1126										X															
G21102	1.00	1131										X															
G21102A	1.00	1136	92.8									X															
G21102D	1.00	1141										X															
G21102DA	1.00	1146	88.2									X															
G21102S	1.00	1151										X															
G21102SA	1.00	1155	99.2									X															
G21103	1.00	1200										X															
G21103A	1.00	1205	98.0									X															
CCV	1.00	1210										X															
CCB	1.00	1215										X															
G21104	1.00	1220										X															

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA3_____ Method: F_

Start Date: 04/12/95 End Date: 04/12/95

EPA Sample No.	D/F	Time	% R	Analytes																								
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN								
G21104A	1.00	1225	93.7									X																
G21105	1.00	1230										X																
G21105A	1.00	1235	91.5									X																
G21106	1.00	1240										X																
G21106A	1.00	1245	95.6									X																
G21107	1.00	1250										X																
G21107A	1.00	1255	99.1									X																
CCV	1.00	1300										X																
CCB	1.00	1305										X																
G21108	1.00	1310										X																
G21108A	1.00	1315	96.1									X																
G21109	1.00	1320										X																
G21109A	1.00	1325	96.3									X																
G21110	1.00	1329										X																
G21110A	1.00	1334	92.5									X																
ZZZZZZ	5.00	1339																										
ZZZZZZA	5.00	1344	83.7																									
CCV	1.00	1349										X																
CCB	1.00	1354										X																

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA6_____ Method: F_

Start Date: 04/18/95 End Date: 04/18/95

EPA Sample No.	D/F	Time	% R	Analytes																						
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN						
S0	1.00	0931										X														
S3	1.00	0937										X														
S10	1.00	0944										X														
S30	1.00	0950										X														
S50	1.00	0957										X														
S70	1.00	1003										X														
ICV	1.00	1010										X														
ICB	1.00	1016										X														
CRA	1.00	1023										X														
[illegible]	1.00	1029										X														
[illegible]	1.00	1036										X														
ZZZZZZ	1.00	1042																								
ZZZZZZA	1.00	1049	118.1																							
CCV	1.00	1058										X														
CCB	1.00	1105										X														
ZZZZZZ	1.00	1111																								
ZZZZZZA	1.00	1118	113.6																							
ZZZZZZ	1.00	1125																								
ZZZZZZA	1.00	1131	105.0																							
ZZZZZZ	1.00	1138																								
ZZZZZZA	1.00	1145	104.7																							
CCV	1.00	1151										X														
CCB	1.00	1158										X														
ZZZZZZ	1.00	1204																								
ZZZZZZA	1.00	1211	111.6																							
ZZZZZZ	1.00	1218																								
ZZZZZZA	1.00	1224	116.0																							
ZZZZZZ	1.00	1231																								
ZZZZZZA	1.00	1238	108.1																							
ZZZZZZ	1.00	1244																								
ZZZZZZA	1.00	1251	114.1																							
CCV	1.00	1258										X														

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA6_____ Method: F_

Start Date: 04/18/95 End Date: 04/18/95

EPA Sample No.	D/F	Time	% R	Analytes																								
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN								
CCB	1.00	1304										X																
ZZZZZZ	1.00	1311																										
ZZZZZZA	1.00	1317	115.3																									
ZZZZZZ	1.00	1324																										
ZZZZZZA	1.00	1331	97.5																									
ZZZZZZ	1.00	1337																										
ZZZZZZA	1.00	1344	92.7																									
ZZZZZZ	1.00	1351																										
ZZZZZZA	1.00	1357	110.3																									
[illegible]	1.00	1404										X																
[illegible]	1.00	1410										X																
ZZZZZZ	1.00	1417																										
ZZZZZZA	1.00	1424	111.7																									
ZZZZZZ	1.00	1430																										
ZZZZZZA	1.00	1437	110.3																									
ZZZZZZ	1.00	1444																										
ZZZZZZA	1.00	1450	117.5																									
ZZZZZZ	1.00	1457																										
ZZZZZZA	1.00	1504	119.7																									
CCV	1.00	1510										X																
CCB	1.00	1517										X																
ZZZZZZ	1.00	1523																										
ZZZZZZA	1.00	1530	113.3																									
ZZZZZZ	1.00	1536																										
ZZZZZZA	1.00	1543	118.9																									
ZZZZZZ	1.00	1549																										
ZZZZZZA	1.00	1556	100.9																									
ZZZZZZ	1.00	1603																										
ZZZZZZA	1.00	1609	115.3																									
CCV	1.00	1616										X																
CCB	1.00	1622										X																
ZZZZZZ	1.00	1629																										

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA6_____ Method: F_

Start Date: 04/18/95 End Date: 04/18/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN							
ZZZZZZA	1.00	1636	114.4																								
ZZZZZZ	1.00	1642																									
ZZZZZZA	1.00	1649	117.7																								
ZZZZZZ	1.00	1656																									
ZZZZZZA	1.00	1702	116.1																								
ZZZZZZ	1.00	1709																									
ZZZZZZA	1.00	1715	114.2																								
CCV	1.00	1722										X															
CCB	1.00	1728										X															
7 ZZZ	1.00	1735																									
2 ZZZA	1.00	1742	117.7																								
ZZZZZZ	1.00	1748																									
ZZZZZZA	1.00	1755	104.3																								
PBS	1.00	1801																									
PBSA	1.00	1808	115.4																								
LCSS	1.00	1814										X															
LCSSA	1.00	1821	108.6									X															
CCV	1.00	1828										X															
CCB	1.00	1834										X															
G21111	1.00	1841										X															
G21111A	1.00	1847	109.8									X															
G21112	1.00	1854										X															
G21112A	1.00	1901	101.4									X															
G21113	1.00	1907										X															
G21113A	1.00	1914	101.0									X															
G21114	1.00	1920										X															
G21114A	1.00	1927	107.2									X															
CCV	1.00	1933										X															
CCB	1.00	1940										X															
G21115	1.00	1947										X															
G21115A	1.00	1953	114.9									X															
G21115D	1.00	2000																									

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA6_____ Method: F_

Start Date: 04/18/95 End Date: 04/18/95

EPA Sample No.	D/F	Time	% R	Analytes																								
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN								
G21115DA	1.00	2006	115.6																									
G21115S	1.00	2013										X																
G21115SA	1.00	2020	104.2									X																
ZZZZZZ	1.00	2026																										
ZZZZZZA	1.00	2033	125.1																									
CCV	1.00	2039										X																
CCB	1.00	2046										X																

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA7_____ Method: F_

Start Date: 04/19/95 End Date: 04/19/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN							
S0	1.00	0909										X															
S3	1.00	0916										X															
S10	1.00	0922										X															
S30	1.00	0929										X															
S50	1.00	0935										X															
S70	1.00	0942										X															
ICV	1.00	0948										X															
ICB	1.00	0955										X															
CRA	1.00	1001										X															
C 7	1.00	1008										X															
C 3	1.00	1014										X															
G21115D0	1.00	1021										X															
G21115D1	1.00	1025										X															
G21115D2	1.00	1028										X															
G21115D3	1.00	1032										X															
CCV	1.00	1040										X															
CCB	1.00	1047										X															
ZZZZZZ	1.00	1054																									
ZZZZZZA	1.00	1100	112.3																								
PBS	1.00	1107										X															
PBSA	1.00	1114	111.3									X															
ZZZZZZ	10.00	1120																									
ZZZZZZA	10.00	1127	119.3																								
CCV	1.00	1134										X															
CCB	1.00	1140										X															

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA5_____ Method: F_

Start Date: 04/11/95 End Date: 04/11/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN							
S0	1.00	1608													X												
S5.0	1.00	1612													X												
S10.0	1.00	1616													X												
S20.0	1.00	1619													X												
S40.0	1.00	1623													X												
S50.0	1.00	1627													X												
ICV	1.00	1631													X												
ICB	1.00	1635													X												
CRA	1.00	1639													X												
[illegible]	1.00	1643													X												
[illegible]	1.00	1647													X												
PBW	1.00	1651													X												
PBWA	1.00	1655	113.2												X												
LCSW	1.00	1659													X												
LCSWA	1.00	1703	90.7												X												
G21101	1.00	1707													X												
G21101A	1.00	1711	107.3												X												
G21101D	1.00	1715													X												
G21101DA	1.00	1719	98.9												X												
G21101S	1.00	1723													X												
CCV	1.00	1727													X												
CCB	1.00	1731													X												
G21102	1.00	1735																									
G21102A	1.00	1739	68.9																								
G21102D	1.00	1743													X												
G21102DA	1.00	1747	98.5												X												
G21102S	1.00	1751													X												
G21103	1.00	1755													X												
G21103A	1.00	1759	52.4												X												
G21104	1.00	1803													X												
G21104A	1.00	1807	72.9												X												
CCV	1.00	1811													X												

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA5_____ Method: F_

Start Date: 04/11/95 End Date: 04/11/95

EPA Sample No.	D/F	Time	% R	Analytes																								
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN								
CCB	1.00	1815													X													

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA5_____ Method: F_

Start Date: 04/12/95 End Date: 04/12/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN							
S0	1.00	0908													X												
S5.0	1.00	0912													X												
S10.0	1.00	0916													X												
S20.0	1.00	0919													X												
S40.0	1.00	0923													X												
S50.0	1.00	0927													X												
ICV	1.00	0931													X												
ICB	1.00	0935													X												
CRA	1.00	0939													X												
[illegible]	1.00	0943													X												
[illegible]	1.00	0947													X												
G21102	1.00	0951													X												
G21102A	1.00	0955	87.9												X												
G21105	1.00	0959													X												
G21105A	1.00	1003	86.9												X												
G21106	1.00	1007													X												
G21106A	1.00	1011	92.8												X												
G21107	1.00	1015													X												
G21107A	1.00	1019	80.8												X												
G21108	1.00	1023													X												
G21108A	1.00	1027	83.3												X												
CCV	1.00	1031													X												
CCB	1.00	1035													X												
G21109	1.00	1039													X												
G21109A	1.00	1043	73.4												X												
G21110	1.00	1047													X												
G21110A	1.00	1051	87.7												X												
PBS	1.00	1055													X												
PBSA	1.00	1059	89.8												X												
LCSS	1.00	1103													X												
LCSSA	1.00	1107	89.3												X												
G21111	1.00	1111													X												

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA5_____ Method: F_

Start Date: 04/12/95 End Date: 04/12/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN							
G21111A_	1.00	1115	89.9												X												
CCV_____	1.00	1119													X												
CCB_____	1.00	1123													X												

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA5_____ Method: F_

Start Date: 04/12/95 End Date: 04/12/95

EPA Sample No.	D/F	Time	% R	Analytes																						
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN						
S0	1.00	1451													X											
S5.0	1.00	1455													X											
S10.0	1.00	1459													X											
S20.0	1.00	1503													X											
S40.0	1.00	1507													X											
S50.0	1.00	1511													X											
ICV	1.00	1515													X											
ICB	1.00	1519													X											
CRA	1.00	1523													X											
[illegible]	1.00	1527													X											
[illegible]	1.00	1531													X											
G21112	1.00	1535													X											
G21112A	1.00	1538	82.8												X											
G21113	1.00	1542													X											
G21113A	1.00	1546	88.8												X											
G21114	1.00	1550													X											
G21114A	1.00	1554	88.0												X											
G21115	1.00	1558													X											
G21115A	1.00	1602	86.7												X											
G21115D	1.00	1606													X											
G21115DA	1.00	1610	87.3												X											
CCV	1.00	1614													X											
CCB	1.00	1618													X											
G21115S	1.00	1622													X											
ZZZZZZ	1.00	1626																								
ZZZZZZ	1.00	1630																								
ZZZZZZ	1.00	1634																								
ZZZZZZ	1.00	1638																								
ZZZZZZ	1.00	1643																								
ZZZZZZ	1.00	1647																								
CCV	1.00	1651													X											
CCB	1.00	1655													X											

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA4_____ Method: F_

Start Date: 04/11/95 End Date: 04/12/95

EPA Sample No.	D/F	Time	% R	Analytes																							
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN							
S0	1.00	1441																X									
S10	1.00	1446																X									
S20	1.00	1451																X									
S30	1.00	1456																X									
S50	1.00	1501																X									
S60	1.00	1506																X									
ICV	1.00	1511																X									
ICB	1.00	1516																X									
CRA	1.00	1521																X									
C '	1.00	1526																X									
C	1.00	1531																X									
ZZZZZZ	1.00	1536																									
ZZZZZZA	1.00	1540	99.0																								
ZZZZZZ	2.00	1545																									
ZZZZZZA	2.00	1550	85.5																								
ZZZZZZ	2.00	1555																									
ZZZZZZA	2.00	1600	95.2																								
ZZZZZZ	1.00	1605																									
ZZZZZZA	1.00	1610	95.5																								
CCV	1.00	1615																X									
CCB	1.00	1619																X									
ZZZZZZ	1.00	1624																									
ZZZZZZA	1.00	1629	97.9																								
ZZZZZZ	1.00	1634																									
ZZZZZZA	1.00	1639	94.3																								
ZZZZZZ	2.00	1644																									
ZZZZZZA	2.00	1649	95.0																								
ZZZZZZ	1.00	1654																									
ZZZZZZA	1.00	1659	102.2																								
CCV	1.00	1704																X									
CCB	1.00	1709																X									
ZZZZZZ	2.00	1713																									

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA4_____ Method: F_

Start Date: 04/11/95 End Date: 04/12/95

EPA Sample No.	D/F	Time	% R	Analytes																						
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN						
ZZZZZZA	2.00	1718	95.9																							
ZZZZZZ	2.00	1723																								
ZZZZZZA	2.00	1728	88.7																							
ZZZZZZ	1.00	1733																								
ZZZZZZA	1.00	1738	62.2																							
ZZZZZZ	1.00	1743																								
ZZZZZZA	1.00	1747	64.1																							
CCV	1.00	1752																X								
CCB	1.00	1757																X								
ZZZZZ	2.00	1802																								
ZZZZA	2.00	1807	49.5																							
ZZZZZZ	1.00	1812																								
ZZZZZZA	1.00	1817	56.8																							
ZZZZZZ	1.00	1822																								
ZZZZZZ	1.00	1826																								
ZZZZZZ	2.00	1831																								
ZZZZZZA	2.00	1836	103.3																							
CCV	1.00	1841																X								
CCB	1.00	1846																X								
ZZZZZZ	2.00	1851																								
ZZZZZZA	2.00	1856	87.1																							
ZZZZZZ	1.00	1901																								
ZZZZZZA	1.00	1906	98.2																							
ZZZZZZ	1.00	1911																								
ZZZZZZA	1.00	1915	100.2																							
CCV	1.00	1920																X								
CCB	1.00	1925																X								
ZZZZZZ	1.00	1931																								
ZZZZZZA	1.00	1935	91.6																							
ZZZZZZ	1.00	1941																								
ZZZZZZA	1.00	1945	103.6																							
PBW	1.00	1950																X								

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA4_____ Method: F_

Start Date: 04/11/95 End Date: 04/12/95

EPA Sample No.	D/F	Time	% R	Analytes																						
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN						
PBWA	1.00	1955	102.9															X								
LCSW	1.00	2000																X								
LCSWA	1.00	2005	-9999.9															X								
CCV	1.00	2010																X								
CCB	1.00	2015																X								
G21101	1.00	2020																X								
G21101A	1.00	2024	105.4															X								
G21101D	1.00	2029																X								
G21101DA	1.00	2034	98.0															X								
G21101S	1.00	2039																X								
G21101SA	1.00	2044	71.5															X								
G21102	1.00	2049																X								
G21102A	1.00	2054	101.8															X								
CCV	1.00	2059																X								
CCB	1.00	2104																X								
G21102D	1.00	2109																X								
G21102DA	1.00	2114	93.7															X								
G21102S	1.00	2118																X								
G21102SA	1.00	2123	62.2															X								
G21103	1.00	2128																X								
G21103A	1.00	2133	82.8															X								
G21104	1.00	2138																X								
G21104A	1.00	2143	90.2															X								
CCV	1.00	2147																X								
CCB	1.00	2152																X								
G21105	1.00	2157																X								
G21105A	1.00	2202	96.1															X								
G21106	1.00	2207																X								
G21106A	1.00	2212	97.1															X								
G21107	1.00	2217																X								
G21107A	1.00	2221	99.2															X								
G21108	1.00	2226																X								

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: AA4_____ Method: F_

Start Date: 04/11/95 End Date: 04/12/95

EPA Sample No.	D/F	Time	% R	Analytes																						
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN						
G21108A_	1.00	2231	94.7															X								
CCV_____	1.00	2236																X								
CCB_____	1.00	2241																X								
G21109__	1.00	2246																X								
G21109A_	1.00	2251	95.5															X								
G21110__	1.00	2256																X								
G21110A_	1.00	2301	100.0															X								
PBS_____	1.00	2306																X								
PBSA____	1.00	2310	100.2															X								
[illegible]SS____	1.00	2315																X								
[illegible]SSA___	1.00	2320	-9999.9															X								
CCV_____	1.00	2325																X								
CCB_____	1.00	2330																X								
G21111__	1.00	2335																X								
G21111A_	1.00	2340	97.2															X								
G21112__	1.00	2345																X								
G21112A_	1.00	2350	86.8															X								
G21113__	1.00	2355																X								
G21113A_	1.00	0000	81.0															X								
G21114__	1.00	0005																X								
G21114A_	1.00	0010	82.9															X								
CCV_____	1.00	0015																X								
CCB_____	1.00	0020																X								
G21115__	1.00	0024																X								
G21115A_	1.00	0029	91.0															X								
G21115D_	1.00	0034																X								
G21115DA	1.00	0039	82.1															X								
G21115S_	1.00	0044																X								
G21115SA	1.00	0049	60.0															X								
CCV_____	1.00	0054																X								
CCB_____	1.00	0059																X								

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: HG3_____ Method: CV

Start Date: 04/12/95 End Date: 04/12/95

EPA Sample No.	D/F	Time	% R	Analytes																								
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN								
S0	1.00	1718											X															
S0.2	1.00	1720											X															
S0.5	1.00	1723											X															
S1.0	1.00	1725											X															
S3.0	1.00	1728											X															
S5.0	1.00	1730											X															
ICV	1.00	1733											X															
ICB	1.00	1736											X															
CRA	1.00	1738											X															
[illegible]	1.00	1740											X															
[illegible]102	1.00	1743											X															
G21102D	1.00	1745											X															
G21102S	1.00	1747											X															
G21104	1.00	1750											X															
G21106	1.00	1752											X															
G21108	1.00	1754											X															
G21110	1.00	1757											X															
G21101	1.00	1759											X															
CCV	1.00	1801											X															
CCB	1.00	1804											X															
G21101D	1.00	1806											X															
G21101S	1.00	1808											X															
G21103	1.00	1811											X															
G21105	1.00	1813											X															
G21107	1.00	1815											X															
G21109	1.00	1818											X															
ZZZZZZ	1.00	1820																										
ZZZZZZ	1.00	1822																										
ZZZZZZ	1.00	1825																										
CCV	1.00	1827											X															
CCB	1.00	1829											X															

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ANALYSIS RUN LOG

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.:G21101

Instrument ID Number: HG3_____ Method: CV

Start Date: 04/12/95 End Date: 04/12/95

EPA Sample No.	D/F	Time	% R	Analytes																								
				SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	NI	SE	AG	SN	TL	V	ZN								
S0	1.00	1615											X															
S0.2	1.00	1617											X															
S0.5	1.00	1620											X															
S1.0	1.00	1622											X															
S3.0	1.00	1624											X															
S5.0	1.00	1627											X															
ICV	1.00	1630											X															
ICB	1.00	1632											X															
CRA	1.00	1635											X															
[illegible]	1.00	1637											X															
[illegible]S	1.00	1639											X															
G21111	1.00	1642											X															
G21112	1.00	1644											X															
G21113	1.00	1646											X															
G21114	1.00	1649											X															
G21115	1.00	1651											X															
G21115D	1.00	1653											X															
G21115S	1.00	1656											X															
CCV	1.00	1658											X															
CCB	1.00	1701											X															

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Instrument Detection Limits (Quarterly)

Lab Name: WESTON_EMI Contract:

Lab Code: WESEMI Case No.: SAS No.: SDG No.: G21101

ICP ID Number: ICP1 Date: 01/15/95

Flame AA ID Number :

Furnace AA ID Number :

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Antimony	206.83		60	10.9	P
Arsenic			10		NR
Barium	493.41		200	0.8	P
Beryllium	313.03		5	0.3	P
Cadmium	228.80		5	2.9	P
Chromium	267.72		10	4.7	P
Cobalt	228.62		50	2.3	P
Copper	324.75		25	4.0	P
Lead			3		NR
Mercury			0.2		NR
Nickel	231.60		40	4.2	P
Selenium			5		NR
Silver	328.07		10	2.5	P
Tin	189.99		100	18.4	P
Thallium			10		NR
Vanadium	292.40		50	2.1	P
Zinc	213.86		20	1.9	P

Comments:

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Instrument Detection Limits (Quarterly)

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

ICP ID Number: _____ Date: 01/15/95

Flame AA ID Number : _____

Furnace AA ID Number : AA3_____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Lead	283.30	BZ	3	1.2	F
Mercury			0.2		NR
Nickel			40		NR
Selenium			5		NR
Silver			10		NR
Tin			100		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

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Instrument Detection Limits (Quarterly)

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

ICP ID Number: _____ Date: 01/15/95

Flame AA ID Number : _____

Furnace AA ID Number : AA4_____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Antimony			60		NR
Arsenic	193.70	BZ	10	1.9	F
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Lead			3		NR
Mercury			0.2		NR
Nickel			40		NR
Selenium			5		NR
Silver			10		NR
Tin			100		NR
Thallium	276.80	BZ	10	1.7	F
Vanadium			50		NR
Zinc			20		NR

Comments:

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Instrument Detection Limits (Quarterly)

Lab Name: WESTON_EMI Contract:

Lab Code: WESEMI Case No.: SAS No.: SDG No.: G21101

ICP ID Number: Date: 04/15/95

Flame AA ID Number :

Furnace AA ID Number : AA4

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Antimony			60		NR
Arsenic	193.70	BZ	10	1.7	F
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Lead			3		NR
Mercury			0.2		NR
Nickel			40		NR
Selenium			5		NR
Silver			10		NR
Tin			100		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

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Instrument Detection Limits (Quarterly)

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

ICP ID Number: _____ Date: 01/15/95

Flame AA ID Number : _____

Furnace AA ID Number : AA5_____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Lead			3		NR
Mercury			0.2		NR
Nickel			40		NR
Selenium	196.00	BZ	5	1.4	F
Silver			10		NR
Tin			100		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

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Instrument Detection Limits (Quarterly)

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

ICP ID Number: _____ Date: 01/15/95

Flame AA ID Number : _____

Furnace AA ID Number : AA6_____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Antimony			60		NR
Arsenic	193.70	BZ	10	1.7	F
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Lead			3		NR
Mercury			0.2		NR
Nickel			40		NR
Selenium			5		NR
Silver			10		NR
Tin			100		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

10
Instrument Detection Limits (Quarterly)

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

ICP ID Number: _____ Date: 04/15/95

Flame AA ID Number : _____

Furnace AA ID Number : AA6_____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Lead	283.30	BZ	3	0.5	F
Mercury			0.2		NR
Nickel			40		NR
Selenium			5		NR
Silver			10		NR
Tin			100		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

10
Instrument Detection Limits (Quarterly)

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

ICP ID Number: _____ Date: 04/15/95

Flame AA ID Number : _____

Furnace AA ID Number : AA7_____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Lead	283.30	BZ	3	0.8	F
Mercury			0.2		NR
Nickel			40		NR
Selenium			5		NR
Silver			10		NR
Tin			100		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

10
Instrument Detection Limits (Quarterly)

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

ICP ID Number: _____ Date: 01/15/95

Flame AA ID Number : HG3_____

Furnace AA ID Number : _____

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Lead			3		NR
Mercury	253.70		0.2	0.2	CV
Nickel			40		NR
Selenium			5		NR
Silver			10		NR
Tin			100		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

U.S. EPA - CLP

11A
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

ICP ID Number: ICP1_____ Date: 04/12/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : Al	Ca	Fe	Mg	AS_
Antimony_	206.83	0.0000000	0.0000000	0.0001250	0.0000000	-0.0000150
Arsenic__	193.60	0.0051990	0.0000000	0.0003710	0.0000000	0.0000000
Barium___	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium__	228.80	0.0000000	0.0000000	0.0000000	-0.0000130	0.0141610
Chromium_	267.72	0.0000000	0.0000000	-0.0000550	0.0000000	0.0000000
Cobalt___	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper___	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead_____	220.35	0.0008340	0.0000000	0.0001720	0.0000000	0.0000000
M cury__						
. kel___	231.60	0.0000000	0.0000000	-0.0000860	0.0000000	0.0000000
Selenium_	196.00	0.0000000	0.0003130	0.0005620	0.0000000	0.0000000
Silver___	328.07	0.0000000	-0.0000180	-0.0002780	0.0000000	0.0000000
Tin_____	189.99	0.0003770	0.0000000	0.0000870	0.0000000	0.0000000
Thallium_	377.57	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium_	292.40	0.0000000	0.0000000	0.0000270	0.0000000	0.0000000
Zinc_____	213.86	0.0000490	0.0000000	0.0001330	0.0000000	0.0000000

Comments:

U.S. EPA - CLP

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

ICP ID Number: ICP1_____ Date: 04/12/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : BA_	CD_	CO_	CR_	CU_
Antimony	206.83	0.0000000	0.0000000	-0.0010440	0.0116080	0.0000000
Arsenic	193.60	0.0000000	0.0000000	0.0020170	0.0013460	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.03	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	-0.0058370	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	-0.0000150	0.0000000	0.0000000
Cobalt	228.62	0.0003550	0.0004940	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	-0.0056330	0.0000000	-0.0005130
M cury						
N ckel	231.60	0.0000000	0.0000000	0.0025210	-0.0000280	0.0000000
Selenium	196.00	0.0000000	-0.0028580	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.99	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	377.57	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	-0.0030830	0.0000000
Zinc	213.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0013460

Comments:

U.S. EPA - CLP

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

ICP ID Number: ICP1_____ Date: 04/12/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : MN_	MO_	NI_	SN_	TI_
Antimony	206.83	0.0000000	0.0029570	-0.0015380	0.0008230	0.0014750
Arsenic	193.60	0.0000000	0.0005580	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.03	0.0000000	-0.0000550	0.0000000	0.0000000	0.0000000
Cadmium	228.80	0.0000000	0.0000000	-0.0007990	0.0000000	0.0000000
Chromium	267.72	0.0000000	-0.0035270	0.0000000	0.0000000	0.0001410
Cobalt	228.62	0.0000000	0.0000000	0.0003640	0.0000000	0.0017400
Copper	324.75	0.0000000	0.0004380	0.0000000	0.0000000	-0.0004260
Lead	220.35	0.0000000	-0.0005460	0.0004300	0.0000000	0.0006720
M cury						
kel	231.60	0.0000000	-0.0016070	0.0000000	0.0000000	0.0000000
Selenium	196.00	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	-0.0001350
Tin	189.99	0.0000000	0.0024790	0.0000000	0.0000000	-0.0222870
Thallium	377.57	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	-0.0018290	0.0000000	0.0000000	0.0004110
Zinc	213.86	0.0000000	-0.0000150	0.0035340	0.0000000	-0.0003420

Comments:

U.S. EPA - CLP

11B
ICP INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

ICP ID Number: ICP1_____ Date: 04/12/95

Analyte	Wave-length (nm)	Interelement Correction Factors for : TL_	V__	ZN_	___	___
Antimony_	206.83	0.0000000	-0.0078210	0.0000000		
Arsenic__	193.60	0.0000000	0.0116610	0.0000000		
Barium___	493.41	0.0000000	0.0000000	0.0000000		
Beryllium	313.03	0.0000000	0.0002940	0.0000000		
Cadmium__	228.80	0.0000000	0.0000680	0.0000000		
Chromium_	267.72	0.0000000	0.0009520	0.0000000		
Cobalt___	228.62	0.0000000	0.0000000	0.0000000		
Copper___	324.75	0.0000000	0.0000000	0.0000000		
Lead_____	220.35	0.0000000	0.0000000	0.0000000		
M cury__						
l. ckel___	231.60	0.0009420	0.0000000	0.0001810		
Selenium_	196.00	0.0000000	0.0000000	0.0000000		
Silver___	328.07	0.0000000	-0.0002360	0.0000000		
Tin_____	189.99	0.0000000	0.0000000	0.0000000		
Thallium_	377.57	0.0000000	0.0081010	0.0000000		
Vanadium_	292.40	0.0000000	0.0000000	0.0000000		
Zinc_____	213.86	0.0000000	-0.0002130	0.0000000		

Comments:

U.S. EPA - CLP

12
ICP LINEAR RANGES (QUARTERLY)

Lab Name: WESTON_EMI_____ Contract: _____

Lab Code: WESEMI Case No.: _____ SAS No.: _____ SDG No.: G21101

ICP ID Number: ICP1_____ Date: 01/15/95

Analyte	Integ. Time (sec.)	Concentration (ug/L)	M
Antimony	5.00	20000.0	P
Arsenic	5.00	100000.0	P
Barium	5.00	150000.0	P
Beryllium	5.00	50000.0	P
Cadmium	5.00	50000.0	P
Chromium	5.00	100000.0	P
Cobalt	5.00	100000.0	P
Copper	5.00	100000.0	P
Lead	5.00	100000.0	P
Mercury			NR
Nickel	5.00	100000.0	P
Selenium	5.00	100000.0	P
Silver	5.00	5000.0	P
Tin	5.00	100000.0	P
Thallium	5.00	200000.0	P
Vanadium	5.00	100000.0	P
Zinc	5.00	100000.0	P

Comments:

ICP RAW DATA

Analy. Report Summary Fri 04-14-95 01:43:27 PM page 1

Brian D. Hammond / Douglas Lum

run 1

#	Sample Name		File	Method	Date	Time	OpID	Type	Mode
1	S0		P10414B	95GI601	04/14/95	11:37		X	IR
2	S		P10414B	95GI601	04/14/95	11:40		X	IR
3	ICV		P10414B	95GI601	04/14/95	11:43	BH	Q	CONC
4	ICB		P10414B	95GI601	04/14/95	11:46	BH	Q	CONC
5	CRI		P10414B	95GI601	04/14/95	11:49	BH	Q	CONC
6	ISA		P10414B	95GI601	04/14/95	11:53	BH	Q	CONC
7	ISB		P10414B	95GI601	04/14/95	11:56	BH	Q	CONC
8	CCV 1		P10414B	95GI601	04/14/95	11:58	BH	Q	CONC
9	CCB		P10414B	95GI601	04/14/95	12:02	BH	Q	CONC
10	95GI601-MB1		P10414B	95GI601	04/14/95	12:05	BH	S	CONC
11	95GI601-LC1		P10414B	95GI601	04/14/95	12:08	BH	S	CONC
12	9504G211-001		P10414B	95GI601	04/14/95	12:10	BH	S	CONC
13	9504G211-001R	1	P10414B	95GI601	04/14/95	12:13	BH	S	CONC
14	9504G211-001S	1	P10414B	95GI601	04/14/95	12:16	BH	S	CONC
15	9504G211-001L	1	P10414B	95GI601	04/14/95	12:19	BH	S	CONC
16	9504G211-001A	1	P10414B	95GI601	04/14/95	12:22	BH	S	CONC
17	9504G211-002		P10414B	95GI601	04/14/95	12:25	BH	S	CONC
18	9504G211-002R	1	P10414B	95GI601	04/14/95	12:28	BH	S	CONC
19	9504G211-002S	1	P10414B	95GI601	04/14/95	12:31	BH	S	CONC
20	CCV 2		P10414B	95GI601	04/14/95	12:34	BH	Q	CONC
21	CCB		P10414B	95GI601	04/14/95	12:36	BH	Q	CONC
22	9504G211-002L	1	P10414B	95GI601	04/14/95	12:39	BH	S	CONC
23	9504G211-002A	1	P10414B	95GI601	04/14/95	12:42	BH	S	CONC
24	9504G211-003 (No Cu) BH 4/14/95		P10414B	95GI601	04/14/95	12:45	BH	S	CONC
25	9504G211-004		P10414B	95GI601	04/14/95	12:48	BH	S	CONC
26	9504G211-005		P10414B	95GI601	04/14/95	12:51	BH	S	CONC
27	9504G211-006		P10414B	95GI601	04/14/95	12:54	BH	S	CONC
28	9504G211-007		P10414B	95GI601	04/14/95	12:57	BH	S	CONC
29	9504G211-008		P10414B	95GI601	04/14/95	13:00	BH	S	CONC
30	9504G211-009		P10414B	95GI601	04/14/95	13:02	BH	S	CONC
31	9504G211-010		P10414B	95GI601	04/14/95	13:05	BH	S	CONC
32	CCV 3		P10414B	95GI601	04/14/95	13:08	BH	Q	CONC
33	CCB		P10414B	95GI601	04/14/95	13:11	BH	Q	CONC
~~34~~	~~9504G211-003-5x(Cu)~~	~~1~~	~~P10414B~~	~~95GI601~~	~~04/14/95~~	~~13:15~~	~~BH~~	~~S~~	~~CONC~~ BH 4/14/95
35	CRI		P10414B	95GI601	04/14/95	13:18	BH	Q	CONC
36	ISA		P10414B	95GI601	04/14/95	13:21	BH	Q	CONC
37	ISB		P10414B	95GI601	04/14/95	13:24	BH	Q	CONC
38	CCV 4		P10414B	95GI601	04/14/95	13:27	BH	Q	CONC
39	CCB		P10414B	95GI601	04/14/95	13:30	BH	Q	CONC

*appx. IV only

OP No. 21-21G-1579
Rev. 01; Eff. Date 02/21/95

WESTON Environmental Metrics, Inc.
IC2 - ICAP 61
CLP Cover Sheet

Raw Run/Filename: P10414B

Analysis Date: 4/14/95

Standard Traceability:

	Source ID
Calibration Standard Source(s) ID:	686 : 690 : 689
	691 : 703 : 713

	Book # - Page - Line
ICV Solution #:	1276 - 75 - 1
CCV Solution #:	1276 - 72 - 4
ICSA Solution #:	1276 - 74 - 7
ICSAB Solution #:	1276 - 74 - 8
CRI Solution #:	1276 - 69 - 3
20% Standard Solution #:	1276 - 68 - 2
50% Standard Solution #:	1276 - 68 - 3

RFW's to Copy: 9504G211

Analyst Signature: Brian L. Hamerde / Douglas L. Lucas Date: 4/14/95

Reviewer Signature: Jodi L. Wojcik Date: 4/18/95

P10414B Brian J. Hamende Douglas Lhuer

Fri 04-14-95 11:40:41 AM page 1

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Method: 95GI601 Standard: S0

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Avge	.00421	.00031	.00004	-.00012	.00061	.00022	.00672
SDev	.00025	.00027	.00004	.00000	.00015	.00032	.00032
%RSD	5.9373	86.868	100.12	.32206	23.960	145.47	4.8224
#1	.00392	.00000	.00000	-.00012	.00057	-.00004	.00666
#2	.00438	.00045	.00004	-.00012	.00078	.00057	.00643
#3	.00432	.00049	.00008	-.00012	.00049	.00012	.00707

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	.00101	-.00000	.00014	.00012	.00033	.00042	.00033
SDev	.00052	.00011	.00005	.00004	.00004	.00027	.00004
%RSD	51.636	48576.	34.836	33.144	12.183	64.615	12.819
#1	.00041	.00008	.00008	.00016	.00037	.00012	.00029
#2	.00131	.00004	.00016	.00008	.00033	.00049	.00033
#3	.00132	-.00012	.00016	.00012	.00029	.00066	.00037

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Avge	.00015	.00097	.00126	.00163	.00145	.00003	-.01938
SDev	.00002	.00048	.00017	.00033	.00042	.00002	.00045
%RSD	15.988	49.408	13.504	20.541	28.734	86.603	2.3358
#1	.00012	.00045	.00110	.00131	.00139	.00000	-.01920
#2	.00016	.00139	.00123	.00160	.00107	.00004	-.01905
#3	.00016	.00107	.00144	.00197	.00189	.00004	-.01989

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Avge	.00135	.00016	.00034	.00014	-.00029	-.00020
SDev	.00007	.00014	.00002	.00009	.00088	.00055
%RSD	5.5134	86.889	6.6497	62.619	307.25	271.55
#1	.00127	.00008	.00037	.00004	-.00057	-.00016
#2	.00139	.00008	.00033	.00016	-.00098	-.00078
#3	.00140	.00033	.00033	.00021	.00070	.00033

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	24409	--	--	--	--	--	--
SDev	78.58965	--	--	--	--	--	--
%RSD	.3219744	--	--	--	--	--	--
#1	24485	--	--	--	--	--	--
#2	24413	--	--	--	--	--	--
#3	24328	--	--	--	--	--	--

Method: 95GI601 Standard: S

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Avge	3.6822	.17172	3.0180	.65693	1.1189	.60535	6.6931
SDev	.0018	.00190	.0025	.00047	.0008	.00169	.0022
%RSD	.05001	1.1075	.08284	.07231	.07387	.27977	.03296

#1	3.6843	.16965	3.0185	.65703	1.1197	.60665	6.6911
#2	3.6808	.17213	3.0153	.65734	1.1191	.60344	6.6927
#3	3.6815	.17338	3.0203	.65641	1.1180	.60597	6.6954
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	2.3478	1.5407	.39151	4.4374	.30079	1.7504	1.5071
SDev	.0009	.0012	.00078	.0029	.00123	.0030	.0012
%RSD	.03792	.07566	.19824	.06516	.40746	.17237	.07902
#1	2.3483	1.5398	.39236	4.4407	.30221	1.7535	1.5085
#2	2.3468	1.5401	.39083	4.4353	.30009	1.7474	1.5063
#3	2.3485	1.5420	.39135	4.4363	.30008	1.7504	1.5066
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Avge	.41874	1.0839	.55650	.40527	4.9775	1.2524	.20060
SDev	.00026	.0017	.00402	.00040	.0348	.0011	.00105
%RSD	.06271	.15299	.72191	.10002	.70004	.09026	.52463
#1	.41867	1.0823	.56077	.40483	5.0147	1.2534	.20182
#2	.41853	1.0840	.55279	.40563	4.9457	1.2512	.19995
#3	.41904	1.0856	.55595	.40536	4.9721	1.2528	.20004
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Avge	.15510	1.9121	.86424	1.5244	.54794	.54576	
SDev	.00014	.0013	.00165	.0007	.00165	.00189	
%RSD	.08877	.06975	.19063	.04736	.30129	.34676	
#1	.15515	1.9126	.86612	1.5248	.54933	.54425	
#2	.15495	1.9106	.86355	1.5235	.54611	.54789	
#3	.15521	1.9131	.86304	1.5248	.54837	.54516	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	24250	--	--	--	--	--	--
SDev	30.66486	--	--	--	--	--	--
%RSD	.1264513	--	--	--	--	--	--
#1	24215	--	--	--	--	--	--
#2	24266	--	--	--	--	--	--
#3	24270	--	--	--	--	--	--

Method: 95GI601 Sample Name: ICV Operator: BH
Run Time: 04/14/95 11:43:39
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	39.538	.86324	8.0983	2.0301	4.0592	2.0310	41.094
SDev	.034	.01247	.0451	.0032	.0011	.0281	.418
%RSD	.08553	1.4449	.55734	.15840	.02792	1.3856	1.0162

#1	39.530	.85794	8.0967	2.0315	4.0579	2.0230	41.069
#2	39.576	.85429	8.1442	2.0264	4.0598	2.0077	40.690
#3	39.510	.87749	8.0540	2.0323	4.0599	2.0623	41.524
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	.80000	8.0000	2.0000	4.0000	2.0000	40.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	4.1672	4.1810	4.0529	20.479	4.0838	40.269	4.0609
SDev	.0336	.0338	.0148	.112	.0695	.103	.0236
%RSD	.80593	.80879	.36614	.54626	1.7027	.25534	.58233
#1	4.1562	4.1766	4.0464	20.452	4.0792	40.179	4.0544
#2	4.1404	4.1496	4.0699	20.384	4.0167	40.246	4.0412
#3	4.2049	4.2168	4.0424	20.602	4.1555	40.381	4.0872
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	4.0000	4.0000	4.0000	20.000	4.0000	40.000	4.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	4.0913	4.1729	39.311	.80824	38.786	4.0490	7.9747
SDev	.0256	.0380	.720	.00449	.797	.0195	.0796
%RSD	.62676	.91058	1.8314	.55507	2.0558	.48107	.99794
#1	4.0770	4.1721	38.962	.80674	38.528	4.0449	7.8846
#2	4.0760	4.1353	40.139	.80470	39.681	4.0702	8.0356
#3	4.1209	4.2113	38.832	.81328	38.150	4.0319	8.0037
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	4.0000	4.0000	40.000	.80000	40.000	4.0000	8.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	4.1002	4.1123	4.0548	4.0680	4.0265	4.0333	
SDev	.0535	.0123	.0395	.0037	.0270	.0452	
%RSD	1.3046	.29871	.97322	.09034	.67045	1.1216	
#1	4.1133	4.1078	4.0535	4.0646	4.0360	4.0319	
#2	4.0414	4.1029	4.0160	4.0676	3.9961	3.9888	
#3	4.1459	4.1262	4.0949	4.0719	4.0475	4.0793	
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	4.0000	4.0000	4.0000	4.0000	4.0000	4.0000	
Range	10.000	10.000	10.000	10.000	10.000	10.000	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	25014	--	--	--	--	--	--
SDev	271.0006	--	--	--	--	--	--

%RSD	1.083381	--	--	--	--	--	--
#1	25015	--	--	--	--	--	--
#2	25285	--	--	--	--	--	--
#3	24743	--	--	--	--	--	--

Method: 95GI601 Sample Name: ICB Operator: BH
Run Time: 04/14/95 11:46:58
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00575	.00128	.00126	.00063	.00801	-.00048	.00280
SDev	.00148	.00626	.00041	.00000	.00186	.00187	.00512
%RSD	25.773	489.74	32.354	.25476	23.167	391.01	182.71
#1	-.00502	.00356	.00161	.00063	.01016	-.00205	.00652
#2	-.00745	-.00581	.00081	.00062	.00698	.00159	-.00304
#3	-.00477	.00608	.00135	.00063	.00691	-.00096	.00492
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.20000	.00500	.05000	.00500	5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00109	-.00035	.00206	.00153	-.00775	-.03031	.00108
SDev	.00323	.00081	.00060	.00095	.00554	.01422	.00001
%RSD	295.20	229.20	28.882	62.081	71.506	46.919	1.2327
#1	-.00116	-.00053	.00170	.00228	-.01094	-.04269	.00107
#2	.00217	.00053	.00174	.00046	-.00135	-.01478	.00109
#3	-.00428	-.00106	.00275	.00183	-.01094	-.03345	.00107
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.05000	.02500	.10000	.05000	5.0000	.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00617	.00190	-.08172	-.00063	-.02094	.00076	-.04443
SDev	.00170	.00023	.05755	.00098	.00618	.00032	.01226
%RSD	27.505	12.072	70.425	153.58	29.525	42.500	27.601
#1	.00711	.00200	-.14579	-.00099	-.02177	.00108	-.05326
#2	.00719	.00206	-.03444	.00047	-.02666	.00044	-.03043
#3	.00421	.00164	-.06491	-.00138	-.01438	.00076	-.04961
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.04000	5.0000	.01000	5.0000	.10000	.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00211	.00086	-.00097	.00142	-.00686	.01250

SDev	.00129	.00114	.00029	.00040	.00769	.00566
%RSD	61.139	133.59	29.464	28.181	112.06	45.261
#1	-.00064	.00000	-.00114	.00177	-.00869	.01497
#2	-.00260	.00215	-.00064	.00098	.00157	.00603
#3	-.00307	.00041	-.00114	.00151	-.01348	.01650
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.05000	.02000	.01000	.10000	.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	24514	--	--	--	--	--	--
SDev	101.1286	--	--	--	--	--	--
%RSD	.4125342	--	--	--	--	--	--
#1	24596	--	--	--	--	--	--
#2	24401	--	--	--	--	--	--
#3	24545	--	--	--	--	--	--

Method: 95GI601 Sample Name: CRI Operator: BH
Run Time: 04/14/95 11:49:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.39177	.13725	.41212	.01075	.21272	.00957	2.1355
SDev	.01448	.00800	.00143	.00023	.00193	.00160	.0277
%RSD	3.6958	5.8309	.34778	2.1090	.90517	16.690	1.2980
#1	.38019	.12803	.41374	.01055	.21108	Q.00793	2.1038
#2	.40800	.14237	.41104	.01071	.21484	.00966	2.1552
#3	.38712	.14136	.41156	.01100	.21225	.01112	2.1475
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.40000	.12000	.40000	.01000	.20000	.01000	2.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.02017	.10854	.05270	.21244	.11372	2.0649	.03162
SDev	.00088	.00200	.00207	.00235	.00864	.0128	.00070
%RSD	4.3817	1.8453	3.9233	1.1083	7.6011	.62121	2.2188
#1	.01939	.10626	.05072	.21100	.10376	2.0707	.03090
#2	.01998	.11000	.05485	.21515	.11823	2.0503	.03231
#3	.02113	.10936	.05253	.21116	.11919	2.0739	.03164
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.02000	.10000	.05000	.20000	.10000	2.0000	.03000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.21275	.08835	1.9691	.02057	2.0370	.20762	.36712
SDev	.00150	.00256	.0149	.00056	.0381	.00034	.09112
%RSD	.70658	2.8936	.75918	2.7029	1.8716	.16622	24.821
#1	.21117	.08602	1.9858	.02020	2.0497	.20798	Q.29307
#2	.21292	.09108	1.9570	.02029	1.9941	.20730	.33940
#3	.21416	.08794	1.9645	.02121	2.0671	.20758	.46888
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.20000	.08000	2.0000	.02000	2.0000	.20000	.40000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.21221	.10650	.04129	.20961	.21503	.21234
SDev	.00419	.00130	.00087	.00072	.00858	.01384
%RSD	1.9766	1.2164	2.1071	.34409	3.9885	6.5201
#1	.20740	.10511	.04035	.20878	.20650	.22073
#2	.21511	.10673	.04207	.20997	.22366	.21992
#3	.21411	.10767	.04144	.21007	.21493	.19636
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.20000	.10000	.04000	.20000	.20000	.20000
Range	20.000	20.000	20.000	20.000	20.000	20.000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	24254	--	--	--	--	--	--
SDev	222.0563	--	--	--	--	--	--
%RSD	.9155450	--	--	--	--	--	--
#1	24506	--	--	--	--	--	--
#2	24087	--	--	--	--	--	--
#3	24169	--	--	--	--	--	--

Method: 95GI601 Sample Name: ISA Operator: BH
Run Time: 04/14/95 11:53:01
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	512.26	.00879	.00164	-.00038	.00867	.00531	514.42
SDev	1.32	.01261	.00066	.00000	.00193	.00044	1.29
%RSD	.25825	143.44	40.417	.16320	22.270	8.2628	.25134
#1	511.60	.02190	.00087	-.00038	.00773	.00547	513.22
#2	511.39	.00773	.00202	-.00038	.01089	.00481	515.79
#3	513.78	-.00325	.00202	-.00038	.00738	.00564	514.24
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass

Value	500.00						500.00
Range	20.000						20.000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00011	-.00003	.00499	191.74	-.00924	519.81	-.00188
SDev	.00123	.00113	.00169	.55	.00482	1.52	.00051
%RSD	1136.6	4417.8	33.868	.28454	52.171	.29147	27.279
#1	.00029	.00110	.00315	191.14	-.01115	518.14	-.00247
#2	-.00149	-.00115	.00536	192.21	-.00375	520.18	-.00155
#3	.00087	-.00003	.00647	191.86	-.01280	521.10	-.00163
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value				200.00		500.00	
Range				20.000		20.000	
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.01084	-.01023	-.10429	-.01156	-.01314	.00669	.11316
SDev	.00104	.00279	.01618	.00220	.01181	.00000	.03394
%RSD	9.5733	27.296	15.515	18.998	89.914	.03016	29.991
#1	-.01084	-.01189	-.08616	-.01392	-.02039	.00669	.12692
#2	-.00980	-.00701	-.11726	-.00957	-.01952	.00669	.13805
#3	-.01188	-.01179	-.10945	-.01120	.00049	.00670	.07450
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	.02970	.00410	-.01968	.01571	.04913	.15917	
SDev	.01929	.00059	.00077	.00063	.05550	.05122	
%RSD	64.945	14.291	3.9094	3.9990	112.95	32.176	
#1	.03355	.00344	-.01940	.01500	.03631	.12631	
#2	.00877	.00431	-.02055	.01597	.10992	.13303	
#3	.04676	.00455	-.01908	.01618	.00117	.21819	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	
Value							
Range							

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23118	--	--	--	--	--	--
SDev	7.637626	--	--	--	--	--	--
%RSD	.0330380	--	--	--	--	--	--
#1	23126	--	--	--	--	--	--
#2	23116	--	--	--	--	--	--
#3	23111	--	--	--	--	--	--

Method: 95GI601 Sample Name: ISB Operator: BH
Run Time: 04/14/95 11:56:02
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	511.90	.02109	.49710	.49493	.00865	1.0047	511.43
SDev	.92	.01272	.00114	.00155	.00208	.0131	1.08
%RSD	.17938	60.322	.22929	.31344	23.992	1.3047	.21194
#1	512.60	.01567	.49835	.49558	.00630	.99621	510.27
#2	510.86	.03562	.49613	.49316	.00944	1.0198	512.42
#3	512.24	.01197	.49681	.49606	.01022	.99812	511.59
Errors	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	500.00		.50000	.50000		1.0000	500.00
Range	100.00		.10000	.10000		.20000	100.00

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.48227	.48592	.52029	191.98	.95781	518.24	.47851
SDev	.00473	.00244	.00152	.38	.00684	.32	.00085
%RSD	.98040	.50151	.29131	.19771	.71418	.06156	.17743
#1	.48109	.48348	.52043	191.54	.95904	518.57	.47762
#2	.48748	.48835	.52173	192.18	.96395	518.23	.47860
#3	.47825	.48592	.51871	192.22	.95044	517.93	.47931
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	.50000	200.00	1.0000	500.00	.50000
Range	.10000	.10000	.10000	40.000	.20000	100.00	.10000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.01127	.95915	-.08266	1.0126	-.01305	.00675	.10148
SDev	.00061	.00520	.09689	.0051	.01327	.00041	.04708
%RSD	5.4058	.54231	117.23	.50584	101.71	6.0756	46.396
#1	-.01056	.95392	-.16375	1.0108	-.02734	.00651	.05180
#2	-.01163	.96432	.02465	1.0183	-.01070	.00723	.10719
#3	-.01160	.95921	-.10887	1.0085	-.00111	.00652	.14544
Errors	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value		1.0000		1.0000			
Range		.20000		.20000			

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.01300	.50140	.96509	.01493	4.9587	5.1044
SDev	.00535	.00088	.00563	.00016	.0119	.0202
%RSD	41.125	.17566	.58372	1.0779	.24055	.39630
#1	.00686	.50241	.96008	.01498	4.9566	5.0871
#2	.01658	.50095	.97119	.01506	4.9479	5.0994

#3	.01557	.50083	.96400	.01475	4.9715	5.1266
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value		.50000	1.0000		5.0000	5.0000
Range		.10000	.20000		1.0000	1.0000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22993	--	--	--	--	--	--
SDev	28.74601	--	--	--	--	--	--
%RSD	.1250225	--	--	--	--	--	--
#1	23019	--	--	--	--	--	--
#2	22962	--	--	--	--	--	--
#3	22997	--	--	--	--	--	--

Method: 95GI601 Sample Name: CCV Operator: BH
Run Time: 04/14/95 11:58:58
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	50.824	1.0476	10.097	2.5062	5.1144	2.5486	51.129
SDev	.106	.0124	.026	.0042	.0104	.0170	.249
%RSD	.20775	1.1834	.25403	.16929	.20292	.66579	.48634
#1	50.821	1.0400	10.108	2.5019	5.1071	2.5301	50.866
#2	50.720	1.0619	10.068	2.5064	5.1099	2.5635	51.360
#3	50.931	1.0409	10.117	2.5103	5.1263	2.5521	51.161
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	5.0000	.10000	1.0000	.25000	.50000	.25000	5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	5.0894	5.2153	5.0759	25.790	5.1100	51.000	5.0719
SDev	.0215	.0222	.0154	.086	.0418	.166	.0188
%RSD	.42190	.42623	.30376	.33371	.81885	.32564	.37124
#1	5.0667	5.1946	5.0768	25.704	5.0671	50.946	5.0533
#2	5.1094	5.2388	5.0600	25.876	5.1507	50.869	5.0909
#3	5.0919	5.2125	5.0908	25.792	5.1120	51.187	5.0715
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	.50000	.50000	.50000	2.5000	.50000	5.0000	.50000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	5.1579	5.1705	49.617	1.0202	49.115	5.0736	10.109
SDev	.0321	.0284	.768	.0059	.833	.0125	.119
%RSD	.62228	.54974	1.5471	.57807	1.6961	.24625	1.1820

#1	5.1214	5.1422	49.429	1.0136	48.986	5.0744	9.9712
#2	5.1819	5.1991	48.960	1.0250	48.354	5.0607	10.176
#3	5.1705	5.1703	50.461	1.0219	50.005	5.0857	10.180
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	.50000	.50000	5.0000	.10000	5.0000	.50000	1.0000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	5.1194	5.1592	5.1055	5.1295	5.0839	5.0398	
SDev	.0669	.0118	.0307	.0069	.0213	.0464	
%RSD	1.3067	.22775	.60134	.13506	.41833	.92039	
#1	5.0475	5.1457	5.0701	5.1215	5.0798	4.9873	
#2	5.1798	5.1668	5.1236	5.1333	5.0650	5.0754	
#3	5.1309	5.1652	5.1228	5.1338	5.1069	5.0567	
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Range	.50000	.50000	.50000	.50000	.50000	.50000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	24117	--	--	--	--	--	--
SDev	202.2309	--	--	--	--	--	--
%RSD	.8385524	--	--	--	--	--	--
#1	24272	--	--	--	--	--	--
#2	23888	--	--	--	--	--	--
#3	24190	--	--	--	--	--	--

Method: 95GI601 Sample Name: CCB Operator: BH
Run Time: 04/14/95 12:02:03
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00025	.00033	.00134	.00032	.00543	-.00100	.01159
SDev	.00811	.00447	.00027	.00000	.00196	.00266	.00657
%RSD	3235.5	1345.3	20.174	1.4066	36.089	266.45	56.706
#1	-.00422	.00510	.00136	.00031	.00624	-.00354	.01894
#2	.00908	-.00376	.00161	.00032	.00685	.00177	.00627
#3	-.00562	-.00034	.00107	.00032	.00319	-.00122	.00956
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.20000	.00500	.05000	.00500	5.0000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM

Avge	-.00301	-.00123	.00101	.00763	-.00775	-.03950	.00080
SDev	.00192	.00158	.00162	.00152	.00675	.02826	.00029
%RSD	63.916	128.50	159.59	19.908	87.012	71.535	36.435
#1	-.00080	-.00107	.00278	.00877	-.00000	-.01479	.00109
#2	-.00393	.00026	.00065	.00821	-.01231	-.03341	.00079
#3	-.00429	-.00289	-.00039	.00590	-.01096	-.07031	.00051
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.05000	.02500	.10000	.05000	5.0000	.01500
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00420	.00009	-.07248	-.00065	-.00620	.00076	-.03656
SDev	.00261	.00262	.08444	.00231	.01087	.00032	.04120
%RSD	62.154	2823.4	116.49	353.55	175.40	43.031	112.71
#1	.00620	-.00102	-.06409	.00127	.00627	.00076	.00835
#2	.00515	.00309	.00744	-.00001	-.01118	.00108	-.04542
#3	.00125	-.00179	-.16081	-.00321	-.01367	.00043	-.07261
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.04000	5.0000	.01000	5.0000	.10000	.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	-.00759	-.00000	-.00066	.00106	.01222	-.00124	
SDev	.00587	.00162	.00047	.00087	.01008	.01172	
%RSD	77.351	48237.	70.531	82.052	82.515	944.39	
#1	-.00264	.00171	-.00064	.00206	.02314	-.00530	
#2	-.00606	-.00022	-.00021	.00070	.01027	.01197	
#3	-.01408	-.00150	-.00114	.00043	.00326	-.01038	
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.10000	.05000	.02000	.01000	.10000	.10000	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	24602	--	--	--	--	--	--
SDev	162.8619	--	--	--	--	--	--
%RSD	.6619865	--	--	--	--	--	--
#1	24420	--	--	--	--	--	--
#2	24652	--	--	--	--	--	--
#3	24734	--	--	--	--	--	--

Method: 95GI601 Sample Name: 95GI601-MB1 (CLP) Operator: BH
Run Time: 04/14/95 12:05:11

Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00707	-.00345	-.00027	-.00011	.01524	-.00216	.08400
SDev	.00432	.01355	.00000	.00018	.00084	.00244	.00286
%RSD	61.078	393.05	.00000	164.20	5.5328	112.95	3.4001
#1	-.00239	-.00732	-.00027	-.00001	.01590	-.00315	.08561
#2	-.00792	.01162	-.00027	-.00001	.01553	-.00394	.08570
#3	-.01091	-.01464	-.00027	-.00031	.01429	.00062	.08070
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.06000	.20000	.00500	.05000	.00500	5.0000
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00026	-.00062	.00141	.00834	-.00452	-.00146	.00001
SDev	.00352	.00056	.00060	.00043	.00556	.01164	.00001
%RSD	1352.1	89.506	42.503	5.1389	123.13	798.32	88.617
#1	.00219	-.00080	.00072	.00836	-.00131	.00640	.00001
#2	.00132	.00000	.00177	.00790	-.00130	.00406	.00002
#3	-.00429	-.00107	.00174	.00876	-.01094	-.01483	-.00000
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.05000	.02500	.10000	.05000	5.0000	.01500
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00297	.00025	.01821	.00017	.07972	.00022	.04397
SDev	.00059	.00117	.07880	.00053	.00683	.00019	.09806
%RSD	19.807	478.81	432.68	324.06	8.5664	85.588	223.01
#1	.00330	.00123	.01111	.00011	.08186	.00011	.10286
#2	.00331	-.00105	.10032	.00072	.08523	.00011	.09828
#3	.00229	.00056	-.05680	-.00034	.07208	.00044	-.06923
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.04000	5.0000	.01000	5.0000	.10000	.50000
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00118	.00044	.00145	.00046	-.00215	.00927
SDev	.00368	.00058	.00075	.00027	.00395	.00266
%RSD	312.62	133.55	51.417	59.430	183.37	28.743
#1	.00048	.00066	.00225	.00019	-.00488	.00675
#2	-.00210	.00087	.00131	.00073	.00237	.01206
#3	.00516	-.00022	.00079	.00045	-.00395	.00900
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.05000	.02000	.01000	.10000	.10000
Low	-.10000	-.05000	-.02000	-.01000	-.10000	-.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	24321	--	--	--	--	--	--
SDev	96.60400	--	--	--	--	--	--
%RSD	.3972095	--	--	--	--	--	--
#1	24271	--	--	--	--	--	--
#2	24259	--	--	--	--	--	--
#3	24432	--	--	--	--	--	--

Method: 95GI601 Sample Name: 95GI601-LC1 Operator: BH
Run Time: 04/14/95 12:08:06
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	1.8568	.49973	1.8566	.04548	.98271	.04951	9.8040
SDev	.0141	.01450	.0036	.00010	.00411	.00299	.0721
%RSD	.75782	2.9009	.19538	.21532	.41775	6.0393	.73572
#1	1.8526	.49555	1.8604	.04548	.97934	.05116	9.7217
#2	1.8454	.48778	1.8531	.04539	.98150	.04605	9.8340
#3	1.8726	.51586	1.8562	.04559	.98728	.05130	9.8563
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.4000	.60000	2.4000	.06000	1.2000	.06000	12.000
Low	1.6000	.40000	1.6000	.04000	.80000	.04000	8.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.19431	.49489	.23799	.98564	.47960	9.6203	.48226
SDev	.00509	.00174	.00074	.00479	.01046	.0432	.00156
%RSD	2.6180	.35110	.31024	.48585	2.1804	.44891	.32387
#1	.18847	.49291	.23739	.98019	.46753	9.5848	.48063
#2	.19670	.49612	.23776	.98758	.48592	9.6077	.48242
#3	.19777	.49566	.23882	.98916	.48536	9.6684	.48374
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.24000	.60000	.30000	1.2000	.60000	12.000	.60000
Low	.16000	.40000	.20000	.80000	.40000	8.0000	.40000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.93657	.50296	9.0637	.04476	9.3325	.94211	1.7604
SDev	.01180	.00688	.0851	.00277	.0489	.00117	.0305
%RSD	1.2604	1.3674	.93864	6.1791	.52380	.12463	1.7302
#1	.92396	.49677	8.9838	.04208	9.3515	.94327	1.7253
#2	.93839	.50173	9.0541	.04459	9.2770	.94092	1.7761
#3	.94736	.51036	9.1531	.04760	9.3690	.94213	1.7799

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2000	.60000	12.000	.06000	12.000	1.2000	2.4000
Low	.80000	.40000	8.0000	.04000	8.0000	.80000	1.6000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.97024	.48743	.48777	.94977	1.8926	1.8493
SDev	.00579	.00307	.00361	.00131	.0180	.0425
%RSD	.59688	.63046	.73961	.13808	.94996	2.2958
#1	.97639	.48389	.48379	.94865	1.8906	1.8019
#2	.96490	.48939	.48869	.94945	1.8757	1.8623
#3	.96943	.48901	.49082	.95122	1.9115	1.8838

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2000	.60000	.60000	1.2000	2.4000	2.4000
Low	.80000	.40000	.40000	.80000	1.6000	1.6000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	24900	--	--	--	--	--	--
SDev	303.3354	--	--	--	--	--	--
%RSD	1.218198	--	--	--	--	--	--
#1	25245	--	--	--	--	--	--
#2	24782	--	--	--	--	--	--
#3	24674	--	--	--	--	--	--

Method: 95GI601 Sample Name: 9504G211-001 Operator: BH
Run Time: 04/14/95 12:10:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.73515	-.00062	.05931	.00061	.81801	-.00346	81.084
SDev	.00906	.00532	.00015	.00000	.00223	.00316	.422
%RSD	1.2319	863.11	.25223	.46038	.27207	91.297	.52014
#1	.72476	-.00672	.05929	.00062	.81579	-.00102	80.708
#2	.74136	.00300	.05918	.00061	.82025	L-.00704	81.540
#3	.73933	.00187	.05947	.00062	.81801	-.00233	81.003

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00148	.02051	.00405	.57652	-.00260	34.016	2.5353
SDev	.00136	.00127	.00287	.00092	.00728	.072	.0083
%RSD	91.757	6.2091	70.883	.15880	280.43	.21050	.32658
#1	.00234	.01961	.00505	.57589	-.01062	34.060	2.5286

#2	-.00009	.01995	.00628	.57757	.00359	33.933	2.5446
#3	.00220	.02197	.00081	.57609	-.00076	34.054	2.5329
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00816	4.4033	35.485	-.00105	78.076	.08755	.02867
SDev	.00108	.0321	.986	.00049	2.222	.00012	.05219
%RSD	13.188	.72910	2.7774	46.653	2.8463	.13748	182.07
#1	.00940	4.3807	36.259	-.00103	79.855	.08762	.06703
#2	.00759	4.4400	34.376	-.00155	75.585	.08741	.04973
#3	.00749	4.3891	35.821	-.00057	78.789	.08763	-.03076
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	-.04366	.00142	1.4340	.00338	.01112	.07333	
SDev	.00037	.00035	.0056	.00034	.01506	.01791	
%RSD	.84863	24.413	.38929	10.163	135.40	24.426	
#1	-.04402	.00133	1.4304	.00317	.00641	.08893	
#2	-.04328	.00180	1.4404	.00377	.02797	.05377	
#3	-.04369	.00112	1.4313	.00319	-.00102	.07729	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	100.00	100.00	100.00	100.00	100.00	100.00	
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23726	--	--	--	--	--	--
SDev	200.2132	--	--	--	--	--	--
%RSD	.8438439	--	--	--	--	--	--
#1	23921	--	--	--	--	--	--
#2	23521	--	--	--	--	--	--
#3	23737	--	--	--	--	--	--

Method: 95GI601 Sample Name: 9504G211-001R 1 Operator: BH
Run Time: 04/14/95 12:13:52
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.71247	.00490	.05845	.00061	.79038	-.00209	79.204
SDev	.00787	.00053	.00028	.00000	.00150	.00224	.412

%RSD	1.1048	10.852	.48033	.36690	.18941	107.17	.52032
#1	.71521	.00436	.05832	.00061	.78891	-.00409	78.747
#2	.70359	.00492	.05825	.00061	.79033	.00033	79.315
#3	.71860	.00542	.05877	.00061	.79191	-.00252	79.549
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00010	.01960	.00530	.54074	-.02004	33.408	2.4863
SDev	.00359	.00120	.00112	.00124	.01031	.031	.0123
%RSD	3569.6	6.1128	21.153	.22862	51.468	.09340	.49483
#1	-.00262	.01927	.00524	.53937	-.03192	33.437	2.4729
#2	-.00169	.01859	.00421	.54109	-.01481	33.375	2.4890
#3	.00401	.02092	.00645	.54177	-.01338	33.410	2.4971
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00361	4.3188	34.338	-.00253	75.466	.08603	-.06872
SDev	.00004	.0214	1.380	.00055	2.845	.00018	.05419
%RSD	1.1492	.49515	4.0175	21.717	3.7697	.21339	78.854
#1	.00356	4.2955	35.929	-.00306	78.739	.08612	-.00895
#2	.00362	4.3233	33.617	-.00196	74.071	.08582	-.11464
#3	.00364	4.3375	33.469	-.00257	73.588	.08616	-.08258
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	-.04276	.00018	1.4006	.00311	.00394	.05861	
SDev	.00028	.00066	.0165	.00002	.02022	.02546	
%RSD	.65648	363.01	1.1748	.65732	513.43	43.442	
#1	-.04307	-.00020	1.3821	.00309	-.01505	.04402	
#2	-.04269	-.00020	1.4061	.00311	.00167	.08801	
#3	-.04252	.00095	1.4137	.00312	.02519	.04380	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	100.00	100.00	100.00	100.00	100.00	100.00	
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--

Avge	23249	--	--	--	--	--	--
SDev	148.3139	--	--	--	--	--	--
%RSD	.6379365	--	--	--	--	--	--
#1	23412	--	--	--	--	--	--
#2	23213	--	--	--	--	--	--
#3	23122	--	--	--	--	--	--

Method: 95GI601 Sample Name: 9504G211-001S 1 Operator: BH
Run Time: 04/14/95 12:16:45
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	2.6226	.51128	1.9707	.04796	1.7850	.04771	91.703
SDev	.0107	.00944	.0049	.00010	.0012	.00086	.419
%RSD	.40961	1.8459	.24730	.20717	.06509	1.7951	.45710
#1	2.6270	.51988	1.9706	.04786	1.7845	.04676	91.562
#2	2.6103	.50119	1.9756	.04796	1.7863	.04842	91.372
#3	2.6304	.51276	1.9659	.04806	1.7841	.04794	92.174
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.19373	.51727	.24653	1.5440	.47182	44.518	3.0627
SDev	.00292	.00176	.00078	.0042	.01103	.069	.0079
%RSD	1.5064	.33931	.31505	.27037	2.3386	.15436	.25830
#1	.19423	.51734	.24679	1.5408	.47389	44.447	3.0605
#2	.19060	.51548	.24715	1.5426	.45990	44.585	3.0561
#3	.19637	.51898	.24566	1.5487	.48167	44.521	3.0715
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.97194	4.9585	44.116	.04586	86.375	1.0565	1.9501
SDev	.00677	.0126	.165	.00285	.544	.0016	.0666
%RSD	.69665	.25330	.37301	6.2064	.62929	.15013	3.4143
#1	.96415	4.9592	44.032	.04534	86.159	1.0571	1.9050
#2	.97523	4.9456	44.306	.04330	86.993	1.0578	1.9188
#3	.97643	4.9707	44.011	.04893	85.972	1.0547	2.0266
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960

Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.94360	.49503	1.9321	.98141	1.9557	1.9690
SDev	.01102	.00239	.0005	.00034	.0126	.0341
%RSD	1.1681	.48315	.02546	.03458	.64325	1.7319
#1	.93524	.49408	1.9323	.98111	1.9677	1.9882
#2	.95609	.49327	1.9325	.98178	1.9426	1.9892
#3	.93946	.49775	1.9316	.98135	1.9568	1.9296
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	100.00	100.00
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23538	--	--	--	--	--	--
SDev	192.1050	--	--	--	--	--	--
%RSD	.8161600	--	--	--	--	--	--
#1	23480	--	--	--	--	--	--
#2	23752	--	--	--	--	--	--
#3	23381	--	--	--	--	--	--

Method: 95GI601 Sample Name: 9504G211-001L 1 Operator: BH
Run Time: 04/14/95 12:19:38
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.14071	-.00190	.01212	-.00013	.16681	.00173	16.481
SDev	.00571	.00481	.00032	.00037	.00316	.00201	.045
%RSD	4.0573	253.14	2.6245	291.25	1.8962	116.26	.27222
#1	.14476	-.00644	.01248	-.00034	.16976	-.00057	16.475
#2	.14319	.00315	.01196	.00030	.16721	.00317	16.529
#3	.13418	-.00241	.01191	-.00034	.16347	.00258	16.440
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00011	.00338	.00292	.11615	-.00540	6.8435	.52201
SDev	.00182	.00160	.00001	.00032	.00449	.0273	.00103
%RSD	1669.8	47.135	.46674	.27924	83.100	.39828	.19833
#1	-.00197	.00157	.00292	.11643	-.00728	6.8143	.52231
#2	.00143	.00403	.00294	.11579	-.00865	6.8683	.52286
#3	.00086	.00456	.00291	.11622	-.00028	6.8479	.52085
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000

Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00408	.91612	6.8160	.00029	15.109	.01795	.00274
SDev	.00117	.00471	.1090	.00131	.074	.00019	.09538
%RSD	28.689	.51410	1.5993	449.45	.48799	1.0704	3483.3
#1	.00341	.91477	6.6907	-.00067	15.024	.01816	-.10235
#2	.00544	.92136	6.8677	-.00024	15.150	.01788	.02673
#3	.00340	.91223	6.8895	.00178	15.153	.01780	.08384
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00087	.00067	.28956	.00134	.00614	.01677
SDev	.00019	.00132	.00503	.00042	.01188	.00849
%RSD	21.411	196.51	1.7364	31.337	193.41	50.663
#1	-.00089	-.00020	.28396	.00180	.01864	.00700
#2	-.00068	.00003	.29105	.00126	.00477	.02245
#3	-.00105	.00220	.29368	.00097	-.00499	.02084
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	100.00	100.00
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23895	--	--	--	--	--	--
SDev	52.38639	--	--	--	--	--	--
%RSD	.2192388	--	--	--	--	--	--
#1	23902	--	--	--	--	--	--
#2	23839	--	--	--	--	--	--
#3	23943	--	--	--	--	--	--

Method: 95GI601 Sample Name: 9504G211-001A 1 Operator: BH
Run Time: 04/14/95 12:22:30
Comment:
Mode: CONC Corr. Factor: 1

NOT needed jw 4/20/95

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	1.1376	.11890	.46893	.01131	1.0269	.00698	83.347
SDev	.0066	.00360	.00093	.00007	.0039	.00217	.229
%RSD	.58136	3.0309	.19832	.64918	.38056	31.059	.27505
#1	1.1419	.11574	.46804	.01138	1.0224	.00728	83.591
#2	1.1300	.12283	.46990	.01123	1.0288	.00468	83.135
#3	1.1410	.11813	.46884	.01131	1.0295	.00899	83.316

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.02300	.12849	.05680	.77916	.10076	35.957	2.5755
SDev	.00144	.00185	.00161	.00207	.01076	.056	.0073
%RSD	6.2677	1.4381	2.8357	.26552	10.681	.15708	.28461
#1	.02464	.13003	.05574	.78058	.11152	35.902	2.5831
#2	.02244	.12901	.05599	.77678	.08999	35.955	2.5685
#3	.02193	.12644	.05865	.78010	.10077	36.015	2.5748

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.21131	4.5082	36.110	.02121	77.111	.29424	.41091
SDev	.00108	.0174	.785	.00075	1.531	.00031	.09350
%RSD	.51210	.38530	2.1747	3.5158	1.9859	.10461	22.754
#1	.21208	4.5271	35.667	.02182	76.086	.29396	.47483
#2	.21008	4.4930	37.017	.02038	78.871	.29457	.45431
#3	.21178	4.5046	35.646	.02143	76.376	.29420	.30360

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.17926	.10779	1.4785	.21280	.21426	.24285
SDev	.00185	.00045	.0115	.00036	.01500	.02688
%RSD	1.0308	.41870	.77931	.16728	7.0028	11.071
#1	.18103	.10816	1.4830	.21254	.20620	.21257
#2	.17734	.10728	1.4655	.21264	.20501	.26393
#3	.17942	.10792	1.4872	.21320	.23158	.25204

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	100.00	100.00
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23450	--	--	--	--	--	--
SDev	165.9649	--	--	--	--	--	--
%RSD	.7077292	--	--	--	--	--	--
#1	23292	--	--	--	--	--	--

#2	23623	--	--	--	--	--	--
#3	23436	--	--	--	--	--	--

Method: 95GI601 Sample Name: 9504G211-002 Operator: BH
Run Time: 04/14/95 12:25:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.63749	.00372	.05578	.00062	.75223	.00075	77.122
SDev	.01155	.00879	.00010	.00000	.00274	.00114	.104
%RSD	1.8125	236.15	.18055	.23117	.36466	152.21	.13548
#1	.62416	-.00617	.05571	.00062	.74906	-.00051	77.014
#2	.64458	.01061	.05573	.00062	.75384	.00103	77.222
#3	.64373	.00673	.05589	.00062	.75379	.00172	77.129
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00231	.02003	.00351	.18528	.00553	32.022	2.4412
SDev	.00321	.00103	.00062	.00073	.01476	.122	.0021
%RSD	139.21	5.1144	17.695	.39633	266.82	.38182	.08447
#1	-.00044	.01899	.00384	.18613	-.00088	31.882	2.4411
#2	.00584	.02007	.00280	.18483	.02241	32.111	2.4434
#3	.00153	.02104	.00390	.18488	-.00493	32.072	2.4393
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00427	4.2471	32.747	-.00136	72.575	.08312	.00090
SDev	.00098	.0022	.231	.00170	.551	.00021	.00219
%RSD	22.916	.05167	.70495	125.61	.75899	.24828	243.64
#1	.00327	4.2448	32.504	-.00332	71.947	.08299	-.00149
#2	.00523	4.2473	32.964	-.00030	72.975	.08336	.00137
#3	.00432	4.2492	32.774	-.00045	72.803	.08302	.00281
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.04468	-.00070	1.3883	.00147	-.00239	.03445
SDev	.00021	.00109	.0058	.00068	.00778	.03215
%RSD	.46001	154.60	.41522	46.021	325.72	93.302

#1	-.04480	-.00171	1.3922	.00084	-.01137	.01576
#2	-.04478	.00045	1.3910	.00139	.00209	.07157
#3	-.04444	-.00085	1.3817	.00219	.00211	.01603

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	100.00	100.00
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	24317	--	--	--	--	--	--
SDev	111.5900	--	--	--	--	--	--
%RSD	.4589035	--	--	--	--	--	--
#1	24387	--	--	--	--	--	--
#2	24375	--	--	--	--	--	--
#3	24188	--	--	--	--	--	--

Method: 95GI601 Sample Name: 9504G211-002R 1 Operator: BH
Run Time: 04/14/95 12:28:16
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.69017	-.00752	.05989	.00061	.83252	.00066	81.488
SDev	.00964	.00135	.00033	.00000	.00064	.00079	.147
%RSD	1.3963	17.931	.54551	.32126	.07732	120.27	.18010
#1	.69904	-.00768	.06026	.00061	.83326	.00148	81.319
#2	.69154	-.00610	.05972	.00061	.83215	.00059	81.591
#3	.67992	-.00878	.05968	.00061	.83215	-.00010	81.553

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00156	.02170	.00412	.19209	-.00157	34.234	2.5957
SDev	.00335	.00128	.00005	.00049	.01311	.042	.0026
%RSD	215.12	5.8804	1.2829	.25594	837.13	.12381	.10030
#1	.00543	.02313	.00407	.19248	.01349	34.203	2.5928
#2	-.00030	.02130	.00411	.19154	-.00769	34.217	2.5965
#3	-.00045	.02067	.00418	.19225	-.01049	34.282	2.5978

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	T13775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00319	4.4962	35.740	-.00305	79.554	.08931	.02460

SDev	.00054	.0190	.669	.00029	1.483	.00012	.08071
%RSD	17.066	.42343	1.8725	9.6602	1.8636	.13882	328.09
#1	.00348	4.4760	36.135	-.00272	80.363	.08932	.03952
#2	.00352	4.5137	36.118	-.00312	80.456	.08942	.09681
#3	.00256	4.4989	34.967	-.00330	77.843	.08918	-.06253
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	-.03506	-.00034	1.4488	.00163	.00017	.07451	
SDev	.01409	.00105	.0089	.00016	.00811	.04725	
%RSD	40.198	312.32	.61485	9.8272	4814.3	63.419	
#1	-.04350	.00048	1.4435	.00181	.00922	.12682	
#2	-.01879	.00003	1.4438	.00154	-.00229	.06179	
#3	-.04290	-.00153	1.4591	.00153	-.00643	.03492	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	100.00	100.00	100.00	100.00	100.00	100.00	
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23500	--	--	--	--	--	--
SDev	162.3648	--	--	--	--	--	--
%RSD	.6909239	--	--	--	--	--	--
#1	23646	--	--	--	--	--	--
#2	23528	--	--	--	--	--	--
#3	23325	--	--	--	--	--	--

Method: 95GI601 Sample Name: 9504G211-002S 1 Operator: BH
Run Time: 04/14/95 12:31:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	2.6538	.52464	2.0062	.04870	1.8107	.04897	90.868
SDev	.0045	.01206	.0050	.00028	.0064	.00190	.538
%RSD	.17133	2.2995	.25033	.58002	.35296	3.8780	.59169
#1	2.6486	.51712	2.0115	.04882	1.8033	.05021	90.324
#2	2.6571	.53855	2.0054	.04838	1.8139	.04991	90.879
#3	2.6557	.51823	2.0016	.04890	1.8148	.04678	91.400
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.19706	.52347	.25267	1.1865	.48815	44.486	3.0696
SDev	.00336	.00303	.00221	.0067	.01203	.117	.0105
%RSD	1.7037	.57852	.87407	.56171	2.4650	.26325	.34166
#1	.19319	.52105	.25502	1.1802	.47434	44.395	3.0586
#2	.19918	.52248	.25065	1.1858	.49371	44.618	3.0705
#3	.19881	.52686	.25233	1.1935	.49639	44.444	3.0795
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.98558	4.9570	46.554	.04648	91.008	1.0752	1.9540
SDev	.00516	.0178	.790	.00293	1.408	.0026	.0252
%RSD	.52347	.35924	1.6969	6.2974	1.5472	.24208	1.2880
#1	.97982	4.9394	47.352	.04324	92.377	1.0782	1.9802
#2	.98717	4.9566	46.536	.04727	91.084	1.0742	1.9300
#3	.98976	4.9750	45.773	.04894	89.564	1.0732	1.9517
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.95162	.50217	1.9355	.99619	1.9885	1.9831
SDev	.00831	.00288	.0162	.00218	.0114	.0406
%RSD	.87340	.57379	.83667	.21932	.57257	2.0471
#1	.94217	.49962	1.9175	.99373	1.9850	1.9785
#2	.95489	.50159	1.9404	.99693	1.9793	1.9451
#3	.95781	.50529	1.9487	.99791	2.0013	2.0259
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	100.00	100.00
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23173	--	--	--	--	--	--
SDev	182.3577	--	--	--	--	--	--
%RSD	.7869291	--	--	--	--	--	--
#1	23325	--	--	--	--	--	--
#2	23224	--	--	--	--	--	--
#3	22971	--	--	--	--	--	--

Method: 95GI601 Sample Name: CCV 7 Operator: BH
Run Time: 04/14/95 12:34:01
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	50.967	1.0587	10.109	2.5042	5.1290	2.5554	51.095
SDev	.034	.0096	.030	.0004	.0051	.0114	.319
%RSD	.06636	.90598	.29191	.01684	.09861	.44699	.62400
#1	50.931	1.0550	10.116	2.5047	5.1239	2.5455	50.866
#2	50.998	1.0697	10.077	2.5038	5.1341	2.5679	51.459
#3	50.971	1.0516	10.135	2.5042	5.1289	2.5529	50.959
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	5.0000	.10000	1.0000	.25000	.50000	.25000	5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	5.1127	5.2280	5.1030	25.835	5.1270	51.386	5.0897
SDev	.0217	.0257	.0074	.073	.0598	.056	.0204
%RSD	.42539	.49220	.14413	.28398	1.1670	.10928	.40071
#1	5.0925	5.2151	5.1092	25.780	5.0722	51.339	5.0754
#2	5.1357	5.2576	5.0949	25.919	5.1909	51.448	5.1131
#3	5.1099	5.2112	5.1049	25.808	5.1179	51.370	5.0806
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	.50000	.50000	.50000	2.5000	.50000	5.0000	.50000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	5.1829	5.1845	49.103	1.0272	48.829	5.1017	10.009
SDev	.0216	.0305	.097	.0034	.167	.0104	.045
%RSD	.41678	.58900	.19730	.32974	.34219	.20434	.45225
#1	5.1682	5.1613	49.183	1.0250	48.928	5.1058	10.061
#2	5.2077	5.2191	49.131	1.0311	48.636	5.0898	9.9857
#3	5.1728	5.1731	48.995	1.0255	48.923	5.1094	9.9796
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	.50000	.50000	5.0000	.10000	5.0000	.50000	1.0000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	5.1480	5.1770	5.1152	5.1401	5.0789	5.0644
SDev	.0417	.0096	.0267	.0020	.0161	.0254
%RSD	.81091	.18632	.52136	.03932	.31729	.50128
#1	5.1091	5.1680	5.0934	5.1384	5.0620	5.0782
#2	5.1921	5.1872	5.1449	5.1424	5.0806	5.0798
#3	5.1428	5.1759	5.1073	5.1396	5.0941	5.0351
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass

Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Range	.50000	.50000	.50000	.50000	.50000	.50000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23772	--	--	--	--	--	--
SDev	239.5002	--	--	--	--	--	--
%RSD	1.007503	--	--	--	--	--	--
#1	23868	--	--	--	--	--	--
#2	23499	--	--	--	--	--	--
#3	23948	--	--	--	--	--	--

Method: 95GI601 Sample Name: CCB Operator: BH
Run Time: 04/14/95 12:36:55
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00496	.00171	.00119	.00072	.00611	-.00028	.00838
SDev	.00721	.00253	.00017	.00018	.00102	.00047	.00541
%RSD	145.14	148.20	14.087	25.192	16.710	166.79	64.553
#1	-.00998	.00162	.00108	.00094	.00511	-.00014	.00219
#2	-.00820	-.00078	.00111	.00062	.00715	.00010	.01076
#3	.00329	.00428	.00138	.00062	.00605	-.00081	.01218
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.20000	.00500	.05000	.00500	5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00213	.00001	.00180	.00404	-.00542	-.00923	.00076
SDev	.00217	.00117	.00110	.00128	.00365	.00480	.00045
%RSD	101.97	17719.	61.402	31.656	67.358	52.012	59.005
#1	.00006	-.00133	.00068	.00552	-.00412	-.00550	.00027
#2	-.00216	.00054	.00182	.00330	-.00260	-.00754	.00086
#3	-.00428	.00081	.00289	.00331	-.00955	-.01465	.00114
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.05000	.02500	.10000	.05000	5.0000	.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	T13775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00499	.00063	-.01524	.00056	-.00345	.00088	-.02453
SDev	.00119	.00156	.02523	.00200	.01415	.00018	.11075
%RSD	23.779	248.33	165.56	359.42	409.62	20.253	451.51
#1	.00423	-.00073	-.03499	-.00136	.01277	.00109	.08670
#2	.00635	.00029	.01318	.00263	-.00991	.00078	-.02549

#3	.00438	.00233	-.02391	.00040	-.01322	.00078	-.13480
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.04000	5.0000	.01000	5.0000	.10000	.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	-.00007	.00043	.00035	.00136	.00480	-.00714	
SDev	.00140	.00085	.00004	.00017	.00566	.00357	
%RSD	2020.4	196.83	10.921	12.335	117.84	49.995	
#1	-.00021	.00128	.00031	.00125	.00082	-.00828	
#2	-.00140	.00045	.00038	.00156	.01128	-.01001	
#3	.00140	-.00043	.00038	.00129	.00231	-.00314	
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.10000	.05000	.02000	.01000	.10000	.10000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	24185	--	--	--	--	--	--
SDev	249.3131	--	--	--	--	--	--
%RSD	1.030858	--	--	--	--	--	--
#1	24472	--	--	--	--	--	--
#2	24061	--	--	--	--	--	--
#3	24022	--	--	--	--	--	--

Method: 95GI601 Sample Name: 9504G211-002L 1 Operator: BH
Run Time: 04/14/95 12:39:48
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.11919	-.00013	.01154	-.00023	.15616	-.00214	15.642
SDev	.00739	.00358	.00034	.00016	.00072	.00099	.128
%RSD	6.1993	2828.6	2.9437	72.145	.46376	46.175	.81964
#1	.12656	-.00353	.01188	-.00004	.15551	-.00129	15.786
#2	.11922	.00360	.01156	-.00033	.15694	-.00192	15.599
#3	.11178	-.00045	.01120	-.00032	.15603	-.00323	15.541
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00003	.00321	.00400	.03784	-.00630	6.4665	.50129
SDev	.00462	.00098	.00193	.00055	.00485	.0349	.00213
%RSD	17723.	30.440	48.310	1.4576	77.054	.53933	.42431

#1	.00532	.00356	.00522	.03847	-.00572	6.4887	.50369
#2	-.00323	.00211	.00500	.03744	-.01141	6.4846	.50057
#3	-.00200	.00397	.00177	.03760	-.00176	6.4263	.49962
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00307	.88060	6.5270	-.00063	14.702	.01714	-.00571
SDev	.00151	.00647	.1042	.00158	.270	.00010	.00324
%RSD	49.296	.73510	1.5967	250.03	1.8378	.56830	56.805
#1	.00354	.88756	6.4071	.00110	14.391	.01715	-.00548
#2	.00138	.87947	6.5953	-.00198	14.882	.01704	-.00906
#3	.00429	.87476	6.5787	-.00102	14.832	.01723	-.00258
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	-.00099	.00047	.28679	.00085	.01367	.01224	
SDev	.00153	.00118	.00262	.00042	.00503	.01157	
%RSD	154.61	251.88	.91238	50.225	36.823	94.496	
#1	.00073	.00183	.28957	.00096	.01899	.02232	
#2	-.00150	-.00021	.28438	.00120	.01304	-.00039	
#3	-.00220	-.00021	.28642	.00037	.00899	.01478	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	100.00	100.00	100.00	100.00	100.00	100.00	
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23935	--	--	--	--	--	--
SDev	423.9894	--	--	--	--	--	--
%RSD	1.771420	--	--	--	--	--	--
#1	23458	--	--	--	--	--	--
#2	24078	--	--	--	--	--	--
#3	24269	--	--	--	--	--	--

Method: 95GI601 Sample Name: 9504G211-002A 1 Operator: BH
Run Time: 04/14/95 12:42:41
Comment:
Mode: CONC Corr. Factor: 1

NOT NEEDED gv 4/26/95

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158

Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	1.0600	.11791	.46492	.01075	.96821	.01083	79.759
SDev	.0026	.00203	.00075	.00058	.00435	.00156	.417
%RSD	.24344	1.7180	.16105	5.3657	.44956	14.404	.52309
#1	1.0629	.11708	.46484	.01119	.97013	.01258	79.534
#2	1.0588	.11643	.46422	.01009	.96322	.01032	80.241
#3	1.0582	.12022	.46571	.01096	.97127	.00959	79.503
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.02259	.12820	.05636	.39646	.10453	34.410	2.4878
SDev	.00118	.00104	.00063	.00236	.00367	.015	.0086
%RSD	5.2042	.81022	1.1236	.59416	3.5106	.04469	.34508
#1	.02124	.12796	.05574	.39509	.10522	34.393	2.4847
#2	.02325	.12933	.05701	.39918	.10056	34.423	2.4975
#3	.02330	.12729	.05632	.39511	.10780	34.415	2.4812
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.21376	4.3646	35.264	.01843	75.718	.28988	.34380
SDev	.00234	.0146	.484	.00133	.821	.00057	.05019
%RSD	1.0948	.33502	1.3727	7.2211	1.0849	.19609	14.600
#1	.21119	4.3601	35.053	.01699	75.621	.28996	.39829
#2	.21578	4.3809	34.922	.01962	74.950	.28928	.33366
#3	.21430	4.3527	35.818	.01868	76.584	.29041	.29944
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	.16976	.10766	1.4441	.21105	.21701	.26759	
SDev	.01351	.00054	.0061	.00022	.00978	.01921	
%RSD	7.9570	.50544	.42411	.10646	4.5057	7.1809	
#1	.17627	.10706	1.4450	.21104	.21039	.25555	
#2	.15423	.10780	1.4497	.21128	.21241	.28975	
#3	.17878	.10812	1.4375	.21083	.22824	.25747	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	100.00	100.00	100.00	100.00	100.00	100.00	
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000	
IntStd	1	2	3	4	5	6	7

Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23481	--	--	--	--	--	--
SDev	248.2425	--	--	--	--	--	--
%RSD	1.057191	--	--	--	--	--	--
#1	23723	--	--	--	--	--	--
#2	23227	--	--	--	--	--	--
#3	23494	--	--	--	--	--	--

Method: 95GI601 Sample Name: 9504G211-003 Operator: BH
Run Time: 04/14/95 12:45:34
Comment:
Mode: CONC Corr. Factor: 1

not needed
Rerun (5x) BH 4/14/95

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	~~Ca3158~~
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	24.642	-.00193	.22995	.00135	.21418	.00127	H670.28
SDev	.084	.00895	.00111	.00038	.00195	.00426	3.87
%RSD	.33915	465.05	.48198	28.421	.90864	335.37	.57705
#1	24.546	.00754	.22871	.00157	.21552	-.00004	H674.59
#2	24.681	-.00307	.23030	.00091	.21195	.00602	H669.16
#3	24.699	-.01025	.23085	.00157	.21507	-.00218	H667.10
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC High
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	~~-5.0000~~ BH 4/14/95

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.23218	.05660	.18982	102.69	.05899	316.37	3.9193
SDev	.00699	.00391	.00143	.27	.02213	.55	.0127
%RSD	3.0108	6.8992	.75092	.25846	37.522	.17333	.32521
#1	.23764	.06035	.18920	102.99	.08218	315.77	3.9333
#2	.23460	.05688	.19145	102.60	.05668	316.83	3.9162
#3	.22430	.05256	.18881	102.49	.03810	316.52	3.9083
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.02563	2.9982	11.315	-.00543	30.155	.44698	-.03706
SDev	.00440	.0190	.223	.00098	.792	.00203	.15223
%RSD	17.150	.63297	1.9670	17.986	2.6265	.45364	410.76
#1	.03058	3.0196	11.093	-.00458	29.320	.44464	.10725
#2	.02414	2.9917	11.539	-.00650	30.895	.44803	-.02230
#3	.02217	2.9833	11.314	-.00521	30.249	.44826	-.19613
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00

Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.01167	.09906	3.4950	1.1336	.05623	.04761
SDev	.02122	.00117	.0037	.0015	.01669	.03555
%RSD	181.75	1.1800	.10543	.13237	29.689	74.664
#1	-.00685	.10033	3.4964	1.1319	.07278	.03407
#2	.00672	.09883	3.4978	1.1345	.05651	.08793
#3	-.03488	.09803	3.4908	1.1344	.03939	.02082
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	100.00	100.00
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22922	--	--	--	--	--	--
SDev	65.82552	--	--	--	--	--	--
%RSD	.2871718	--	--	--	--	--	--
#1	22863	--	--	--	--	--	--
#2	22993	--	--	--	--	--	--
#3	22910	--	--	--	--	--	--

Method: 95GI601 Sample Name: 9504G211-004 Operator: BH
Run Time: 04/14/95 12:48:29
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00694	.00303	.05814	.00020	.18194	.00158	93.713
SDev	.00243	.01130	.00002	.00019	.00077	.00079	.664
%RSD	35.043	372.68	.02950	94.450	.42320	50.157	.70860
#1	.00965	.00566	.05815	.00030	.18258	.00169	94.431
#2	.00497	-.00935	.05812	.00031	.18109	.00231	93.122
#3	.00619	.01279	.05813	-.00002	.18215	.00074	93.584
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00083	.01844	.00360	.02286	-.00659	44.345	1.3556
SDev	.00272	.00186	.00060	.00363	.00806	.126	.0056
%RSD	328.82	10.082	16.557	15.863	122.45	.28488	.41266
#1	.00214	.02059	.00291	.02686	.00273	44.490	1.3615
#2	-.00319	.01742	.00390	.02192	-.01124	44.278	1.3503
#3	-.00142	.01732	.00398	.01979	-.01125	44.266	1.3549

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.01201	.91872	6.4205	-.00185	27.301	.21017	-.07958
SDev	.00244	.00252	.0519	.00139	.263	.00015	.04064
%RSD	20.293	.27466	.80904	75.114	.96444	.07123	51.071
#1	.01240	.92047	6.4786	-.00032	27.452	.21012	-.05034
#2	.01422	.91582	6.4043	-.00305	27.455	.21034	-.06241
#3	.00940	.91985	6.3786	-.00219	26.997	.21005	-.12599
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	-.03409	-.00018	.14075	.00214	-.00130	.06789	
SDev	.01712	.00038	.00171	.00030	.00555	.00911	
%RSD	50.225	205.90	1.2149	13.817	426.82	13.425	
#1	-.01432	.00004	.14255	.00244	.00056	.07720	
#2	-.04419	-.00062	.13915	.00185	.00308	.06746	
#3	-.04376	.00003	.14056	.00213	-.00755	.05899	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	100.00	100.00	100.00	100.00	100.00	100.00	
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	24016	--	--	--	--	--	--
SDev	136.8905	--	--	--	--	--	--
%RSD	.5699969	--	--	--	--	--	--
#1	23933	--	--	--	--	--	--
#2	24174	--	--	--	--	--	--
#3	23941	--	--	--	--	--	--

Method: 95GI601 Sample Name: 9504G211-005 Operator: BH
Run Time: 04/14/95 12:51:22
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.28364	-.00226	.03429	-.00013	.79586	-.00082	115.90
SDev	.01480	.01470	.00053	.00037	.00469	.00104	.63
%RSD	5.2166	650.17	1.5416	287.57	.58951	127.60	.54107

#1	.29604	.00799	.03482	-.00035	.79888	-.00171	116.46
#2	.28761	.00433	.03431	.00030	.79825	.00033	116.03
#3	.26726	-.01911	.03376	-.00034	.79046	-.00108	115.23
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.46953	-.00013	.00473	1.4271	-.00516	37.259	.08980
SDev	.00495	.00111	.00068	.0079	.00836	.057	.00067
%RSD	1.0545	862.67	14.309	.55313	162.03	.15379	.74019
#1	.47371	.00107	.00515	1.4318	.00436	37.208	.09044
#2	.47081	-.00032	.00510	1.4316	-.01133	37.321	.08984
#3	.46406	-.00113	.00395	1.4180	-.00850	37.250	.08912
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	T13775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.20773	.01099	11.379	-.00146	30.445	.24329	.01821
SDev	.00079	.00543	.055	.00136	.247	.00050	.03126
%RSD	.38140	49.410	.48463	92.618	.81065	.20576	171.66
#1	.20818	.01397	11.363	-.00066	30.170	.24272	.05010
#2	.20681	.01428	11.441	-.00070	30.649	.24352	-.01239
#3	.20819	.00472	11.334	-.00303	30.516	.24363	.01693
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	-.02533	.00233	.00632	.01611	.00471	.04801	
SDev	.01853	.00102	.00130	.00063	.00340	.02919	
%RSD	73.142	43.775	20.572	3.8766	72.097	60.796	
#1	-.00495	.00339	.00770	.01622	.00104	.01835	
#2	-.02990	.00226	.00614	.01668	.00773	.07669	
#3	-.04115	.00135	.00512	.01544	.00536	.04898	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	100.00	100.00	100.00	100.00	100.00	100.00	
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23583	--	--	--	--	--	--
SDev	169.2848	--	--	--	--	--	--

%RSD	.7178153	--	--	--	--	--	--
#1	23420	--	--	--	--	--	--
#2	23572	--	--	--	--	--	--
#3	23758	--	--	--	--	--	--

Method: 95GI601 Sample Name: 9504G211-006 Operator: BH
Run Time: 04/14/95 12:54:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00935	.00659	.02972	.00010	.73935	-.00107	91.466
SDev	.01126	.00702	.00042	.00037	.00454	.00162	.541
%RSD	120.34	106.51	1.4133	375.33	.61404	151.69	.59145
#1	.00252	.01248	.02988	.00031	.73594	-.00293	91.595
#2	.02235	.00847	.03003	-.00033	.74451	-.00037	91.931
#3	.00320	-.00118	.02924	.00032	.73761	.00008	90.872
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.37508	.00043	.00352	.02782	-.00203	26.115	.03327
SDev	.00417	.00150	.00128	.00189	.00842	.030	.00008
%RSD	1.1105	347.74	36.318	6.8078	413.95	.11515	.24894
#1	.37562	.00189	.00282	.02773	-.01084	26.081	.03336
#2	.37894	-.00111	.00500	.02976	.00594	26.124	.03326
#3	.37067	.00052	.00274	.02598	-.00120	26.139	.03319
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.19806	.01541	10.832	-.00067	28.730	.22415	-.02978
SDev	.00395	.00210	.060	.00159	.243	.00030	.07420
%RSD	1.9952	13.647	.55559	239.12	.84464	.13277	249.15
#1	.19358	.01564	10.764	.00105	28.469	.22393	.04293
#2	.19957	.01740	10.879	-.00096	28.770	.22403	-.02689
#3	.20104	.01321	10.853	-.00209	28.949	.22449	-.10538
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.01051	.00124	.00841	.00185	.01203	.07014

SDev	.01598	.00011	.00132	.00043	.02187	.01296
%RSD	152.03	8.8320	15.649	23.083	181.80	18.475
#1	-.00149	.00131	.00860	.00194	.02852	.05801
#2	-.00108	.00111	.00963	.00223	.02035	.08379
#3	-.02896	.00130	.00701	.00139	-.01278	.06861
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	100.00	100.00
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	24016	--	--	--	--	--	--
SDev	213.2823	--	--	--	--	--	--
%RSD	.8880718	--	--	--	--	--	--
#1	23957	--	--	--	--	--	--
#2	23839	--	--	--	--	--	--
#3	24253	--	--	--	--	--	--

Method: 95GI601 Sample Name: 9504G211-007 Operator: BH
Run Time: 04/14/95 12:57:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	1.1530	.00221	.05893	.00030	.08137	-.00173	98.103
SDev	.0097	.00712	.00017	.00001	.00216	.00217	.353
%RSD	.83866	322.53	.29417	1.5951	2.6583	125.56	.35971
#1	1.1418	.00150	.05874	.00030	.08035	-.00321	97.978
#2	1.1588	-.00453	.05898	.00031	.07991	.00076	97.830
#3	1.1583	.00965	.05908	.00030	.08386	-.00274	98.502
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00788	.00012	.00431	4.5983	.00943	45.419	.34034
SDev	.00151	.00027	.00067	.0098	.00365	.028	.00099
%RSD	19.148	229.40	15.611	.21308	38.777	.06091	.29032
#1	.00704	-.00015	.00395	4.5921	.00525	45.422	.33956
#2	.00963	.00011	.00391	4.5932	.01202	45.390	.34000
#3	.00698	.00039	.00509	4.6096	.01101	45.445	.34145
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00631	.01574	5.4521	-.00126	153.89	.13846	.01889
SDev	.00257	.00452	.1209	.00022	1.55	.00036	.06666
%RSD	40.648	28.702	2.2166	17.186	1.0083	.26185	352.92
#1	.00432	.01057	5.5771	-.00106	155.31	.13877	.01467
#2	.00921	.01766	5.4435	-.00149	154.14	.13806	.08756
#3	.00541	.01897	5.3358	-.00122	152.23	.13854	-.04556
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.01581	.00572	.01673	.07411	.00185	.05840
SDev	.00321	.00109	.00086	.00070	.00840	.04020
%RSD	20.331	19.040	5.1713	.94048	455.01	68.841
#1	-.01947	.00506	.01607	.07407	-.00780	.10233
#2	-.01456	.00698	.01642	.07343	.00578	.04940
#3	-.01341	.00512	.01771	.07482	.00756	.02345
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	100.00	100.00
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	24103	--	--	--	--	--	--
SDev	189.4131	--	--	--	--	--	--
%RSD	.7858596	--	--	--	--	--	--
#1	24144	--	--	--	--	--	--
#2	24268	--	--	--	--	--	--
#3	23896	--	--	--	--	--	--

Method: 95GI601 Sample Name: 9504G211-008 Operator: BH
Run Time: 04/14/95 13:00:01
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.01946	.00259	.05961	.00040	.09406	-.00169	51.518
SDev	.00665	.00726	.00069	.00018	.00067	.00219	.130
%RSD	34.156	280.26	1.1605	44.893	.71446	129.62	.25266
#1	.01713	.01097	.05972	.00030	.09347	-.00081	51.480
#2	.02696	-.00159	.06025	.00061	.09479	-.00008	51.663
#3	.01430	-.00161	.05887	.00030	.09390	-.00419	51.412
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass

High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.07450	.00116	.00509	.24204	-.00771	21.986	.20825
SDev	.00052	.00195	.00006	.00117	.00571	.061	.00024
%RSD	.70096	168.39	1.1368	.48212	74.084	.27781	.11784
#1	.07481	.00078	.00503	.24155	-.01100	21.916	.20822
#2	.07479	.00327	.00515	.24337	-.00111	22.029	.20851
#3	.07389	-.00058	.00507	.24119	-.01101	22.014	.20802
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00533	.03268	5.1728	-.00004	160.54	.12395	-.06318
SDev	.00268	.00063	.0407	.00211	.88	.00032	.06365
%RSD	50.285	1.9136	.78760	4861.4	.54858	.25983	100.74
#1	.00627	.03206	5.1386	-.00023	160.13	.12378	-.07428
#2	.00742	.03331	5.2179	.00215	159.93	.12375	.00529
#3	.00231	.03266	5.1619	-.00205	161.55	.12432	-.12054
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	-.00506	.00062	.00646	.00142	-.00374	.03380	
SDev	.00458	.00178	.00034	.00070	.00561	.00924	
%RSD	90.400	287.08	5.2061	49.423	150.05	27.352	
#1	-.00644	.00090	.00607	.00150	-.00043	.03203	
#2	.00005	.00224	.00670	.00207	-.00057	.02557	
#3	-.00879	-.00128	.00660	.00068	-.01021	.04380	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	100.00	100.00	100.00	100.00	100.00	100.00	
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23829	--	--	--	--	--	--
SDev	161.0466	--	--	--	--	--	--
%RSD	.6758428	--	--	--	--	--	--
#1	23969	--	--	--	--	--	--
#2	23653	--	--	--	--	--	--
#3	23865	--	--	--	--	--	--

Method: 95GI6Q1 Sample Name: 9504G211-009 Operator: BH
Run Time: 04/14/95 13:02:54
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	6.2971	-.00352	.10224	.00093	.85451	.00104	360.34
SDev	.0057	.00908	.00021	.00000	.00397	.00211	1.08
%RSD	.09096	258.13	.20603	.03820	.46421	202.44	.29854
#1	6.3001	-.01224	.10217	.00093	.85171	-.00090	361.56
#2	6.2905	.00589	.10247	.00093	.85905	.00075	359.94
#3	6.3006	-.00422	.10207	.00093	.85277	.00328	359.53
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.01931	.02491	.02360	14.092	.00285	203.48	3.2778
SDev	.00279	.00163	.00011	.022	.00753	.13	.0058
%RSD	14.466	6.5488	.47047	.15449	264.26	.06175	.17679
#1	.02253	.02656	.02371	14.117	-.00146	203.63	3.2845
#2	.01783	.02488	.02348	14.078	.01155	203.42	3.2747
#3	.01756	.02330	.02360	14.080	-.00154	203.40	3.2742
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00480	4.6170	39.885	-.00429	83.478	.16963	.02490
SDev	.00108	.0103	.492	.00067	.737	.00042	.01076
%RSD	22.596	.22201	1.2331	15.566	.88333	.24616	43.201
#1	.00588	4.6253	40.229	-.00357	83.912	.16915	.03522
#2	.00371	4.6202	40.103	-.00442	83.895	.16983	.02573
#3	.00480	4.6056	39.321	-.00489	82.626	.16991	.01376
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.02115	.02269	1.5699	.27703	.00242	.08203
SDev	.01540	.00109	.0074	.00451	.01285	.04203
%RSD	72.781	4.7905	.47044	1.6269	531.87	51.240
#1	-.03887	.02265	1.5752	.27276	.00083	.05817
#2	-.01099	.02380	1.5731	.28174	.01599	.13056

#3	-.01360	.02163	1.5615	.27659	-.00956	.05736
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	100.00	100.00
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22735	--	--	--	--	--	--
SDev	95.62601	--	--	--	--	--	--
%RSD	.4206176	--	--	--	--	--	--
#1	22642	--	--	--	--	--	--
#2	22833	--	--	--	--	--	--
#3	22729	--	--	--	--	--	--

Method: 95GI601 Sample Name: 9504G211-010 Operator: BH
Run Time: 04/14/95 13:05:47
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.67447	.00294	.05890	.00050	.79444	-.00292	80.081
SDev	.01034	.00056	.00035	.00038	.00249	.00182	.199
%RSD	1.5329	19.116	.58738	74.432	.31392	62.421	.24861
#1	.66278	.00241	.05897	.00029	.79731	-.00410	79.970
#2	.67821	.00290	.05853	.00029	.79281	-.00384	79.963
#3	.68242	.00353	.05921	.00094	.79319	-.00082	80.311
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00328	.01989	.00597	.14394	.00477	34.062	2.5389
SDev	.00257	.00025	.00131	.00067	.00085	.049	.0052
%RSD	78.297	1.2540	21.877	.46293	17.742	.14241	.20618
#1	.00549	.01972	.00521	.14342	.00519	34.094	2.5377
#2	.00388	.01977	.00523	.14371	.00380	34.085	2.5343
#3	.00046	.02018	.00748	.14469	.00533	34.006	2.5446
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00355	4.3924	34.708	-.00223	76.375	.08921	.03735
SDev	.00100	.0207	.333	.00160	.758	.00013	.02922
%RSD	28.078	.47206	.95903	71.561	.99186	.14646	78.226

#1	.00353	4.3891	34.958	-.00086	76.905	.08923	.07078
#2	.00456	4.3735	34.836	-.00399	76.714	.08907	.02456
#3	.00257	4.4145	34.330	-.00186	75.508	.08933	.01671
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	-.04304	.00019	1.3802	.00184	.01861	.06586	
SDev	.00021	.00090	.0088	.00059	.00497	.00376	
%RSD	.48728	461.84	.63882	31.849	26.677	5.7020	
#1	-.04320	.00116	1.3742	.00118	.01861	.06166	
#2	-.04311	-.00062	1.3761	.00202	.02358	.06889	
#3	-.04280	.00004	1.3904	.00231	.01365	.06703	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	100.00	100.00	100.00	100.00	100.00	100.00	
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23406	--	--	--	--	--	--
SDev	106.8285	--	--	--	--	--	--
%RSD	.4564086	--	--	--	--	--	--
#1	23490	--	--	--	--	--	--
#2	23443	--	--	--	--	--	--
#3	23286	--	--	--	--	--	--

Method: 95GI601 Sample Name: CCV 3 Operator: BH
Run Time: 04/14/95 13:08:40
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	51.091	1.0602	10.131	2.5098	5.1441	2.5604	51.163
SDev	.051	.0176	.012	.0025	.0063	.0150	.296
%RSD	.10037	1.6634	.12260	.09994	.12166	.58435	.57788
#1	51.033	1.0426	10.136	2.5086	5.1386	2.5439	50.832
#2	51.129	1.0779	10.117	2.5127	5.1427	2.5730	51.401
#3	51.112	1.0600	10.140	2.5081	5.1509	2.5644	51.256
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	5.0000	.10000	1.0000	.25000	.50000	.25000	5.0000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM

Avge	5.1345	5.2497	5.1132	25.942	5.1698	51.599	5.1028
SDev	.0179	.0287	.0070	.082	.0392	.129	.0203
%RSD	.34849	.54626	.13676	.31786	.75875	.25053	.39793
#1	5.1154	5.2185	5.1077	25.854	5.1246	51.452	5.0810
#2	5.1508	5.2750	5.1107	26.017	5.1904	51.650	5.1212
#3	5.1374	5.2555	5.1211	25.956	5.1945	51.695	5.1063
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	.50000	.50000	.50000	2.5000	.50000	5.0000	.50000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	T13775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	5.2003	5.2058	49.161	1.0259	48.930	5.1226	10.072
SDev	.0258	.0241	.411	.0043	.356	.0042	.011
%RSD	.49638	.46275	.83555	.41906	.72659	.08140	.10707
#1	5.1709	5.1788	48.998	1.0211	48.726	5.1227	10.062
#2	5.2193	5.2252	48.856	1.0272	48.723	5.1184	10.072
#3	5.2106	5.2134	49.628	1.0294	49.340	5.1267	10.083
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	.50000	.50000	5.0000	.10000	5.0000	.50000	1.0000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	5.1506	5.1904	5.1332	5.1481	5.1103	5.0849	
SDev	.0391	.0149	.0182	.0042	.0248	.0598	
%RSD	.75960	.28801	.35508	.08236	.48501	1.1754	
#1	5.1104	5.1732	5.1231	5.1440	5.0817	5.0178	
#2	5.1529	5.2000	5.1542	5.1480	5.1238	5.1324	
#3	5.1885	5.1979	5.1222	5.1525	5.1254	5.1045	
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Range	.50000	.50000	.50000	.50000	.50000	.50000	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23718	--	--	--	--	--	--
SDev	93.61624	--	--	--	--	--	--
%RSD	.3947054	--	--	--	--	--	--
#1	23800	--	--	--	--	--	--
#2	23616	--	--	--	--	--	--
#3	23738	--	--	--	--	--	--

Method: 95GI601 Sample Name: CCB 3 Operator: BH
Run Time: 04/14/95 13:11:33

Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00066	.00352	.00210	.00052	.00609	-.00070	.02033
SDev	.00464	.00648	.00041	.00018	.00134	.00195	.00246
%RSD	704.48	184.04	19.651	35.691	22.043	279.92	12.107
#1	-.00511	-.00281	.00245	.00062	.00590	.00114	.02225
#2	.00416	.00324	.00221	.00030	.00752	-.00275	.01756
#3	-.00103	.01014	.00164	.00062	.00486	-.00048	.02118
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.20000	.00500	.05000	.00500	5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00059	.00017	.00283	.00451	.00056	-.01319	.00111
SDev	.00198	.00082	.00104	.00139	.00289	.01361	.00053
%RSD	334.89	474.40	36.669	30.883	520.47	103.18	47.471
#1	-.00165	.00107	.00280	.00602	.00141	-.00537	.00164
#2	-.00181	-.00054	.00181	.00424	.00292	-.02890	.00058
#3	.00169	-.00000	.00389	.00327	-.00267	-.00529	.00112
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.05000	.02500	.10000	.05000	5.0000	.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00693	.00294	-.02579	-.00048	-.00093	.00121	-.05938
SDev	.00295	.00128	.05977	.00172	.00582	.00050	.06695
%RSD	42.575	43.431	231.78	356.77	626.38	41.055	112.75
#1	.01015	.00168	.02496	-.00073	.00386	.00175	-.00671
#2	.00436	.00423	-.09166	-.00206	-.00741	.00111	-.13472
#3	.00628	.00291	-.01065	.00135	.00076	.00077	-.03670
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.04000	5.0000	.01000	5.0000	.10000	.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00020	.00073	-.00014	.00190	.00906	.02498
SDev	.00498	.00065	.00047	.00017	.00648	.01016
%RSD	2467.4	89.772	328.60	9.0306	71.579	40.662
#1	.00541	.00129	.00032	.00180	.00957	.03471
#2	-.00408	.00001	-.00012	.00210	.01527	.01444
#3	-.00194	.00088	-.00062	.00181	.00233	.02578
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.05000	.02000	.01000	.10000	.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	24218	--	--	--	--	--	--
SDev	148.0180	--	--	--	--	--	--
%RSD	.6111985	--	--	--	--	--	--
#1	24367	--	--	--	--	--	--
#2	24071	--	--	--	--	--	--
#3	24215	--	--	--	--	--	--

Method: 95GI601 Sample Name: 9504G211-003-5X 1 Operator: BH
Run Time: 04/14/95 13:15:58
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	4.8400	.00182	.04635	.00062	.04177	-.00197	131.43
SDev	.0079	.00276	.00005	.00000	.00028	.00121	.37
%RSD	.16268	151.99	.10885	.34617	.66218	61.469	.28262
#1	4.8314	.00402	.04631	.00062	.04207	-.00145	131.10
#2	4.8468	-.00128	.04640	.00062	.04171	-.00336	131.37
#3	4.8419	.00270	.04633	.00062	.04153	-.00111	131.83
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.04509	.01205	.03713	21.150	.00276	60.770	.79495
SDev	.00118	.00216	.00115	.024	.00539	.057	.00164
%RSD	2.6248	17.886	3.0949	.11551	195.36	.09406	.20654
#1	.04644	.01197	.03686	21.130	.00264	60.742	.79635
#2	.04423	.00994	.03614	21.143	.00822	60.732	.79314
#3	.04460	.01425	.03839	21.177	-.00257	60.836	.79534
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00347	.62053	2.2293	-.00475	5.7933	.08934	.03911
SDev	.00109	.00225	.0346	.00192	.0790	.00047	.05356
%RSD	31.527	.36288	1.5500	40.447	1.3638	.51993	136.96
#1	.00407	.61794	2.2692	-.00506	5.8834	.08983	.01722
#2	.00413	.62200	2.2080	-.00649	5.7610	.08891	.10015
#3	.00321	.62166	2.2107	-.00269	5.7356	.08928	-.00004

BH 4/14/95

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	-.01025	.01994	.70010	.23998	.00107	.06279	
SDev	.00432	.00080	.00347	.00224	.00734	.03115	
%RSD	42.150	4.0154	.49596	.93274	685.99	49.610	
#1	-.01505	.01903	.69750	.24055	-.00327	.04449	
#2	-.00666	.02025	.69875	.24187	.00954	.04513	
#3	-.00905	.02055	.70404	.23751	-.00306	.09876	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	100.00	100.00	100.00	100.00	100.00	100.00	
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	24592	--	--	--	--	--	--
SDev	148.8366	--	--	--	--	--	--
%RSD	.6052154	--	--	--	--	--	--
#1	24754	--	--	--	--	--	--
#2	24562	--	--	--	--	--	--
#3	24461	--	--	--	--	--	--

BH 4/14/95

Method: 95GI601 Sample Name: CRI Operator: BH
Run Time: 04/14/95 13:18:51
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.39715	.12949	.41903	.01087	.20992	.01037	2.1459
SDev	.00898	.00814	.00079	.00026	.00496	.00134	.0158
%RSD	2.2617	6.2841	.18901	2.4137	2.3651	12.895	.73427
#1	.40548	.12123	.41928	.01104	.21562	.01122	2.1633
#2	.39832	.13750	.41815	.01101	.20660	.01106	2.1418
#3	.38764	.12973	.41967	.01057	.20752	.00883	2.1325
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.40000	.12000	.40000	.01000	.20000	.01000	2.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.02203	.10904	.05353	.21656	.10180	2.1270	.03164
SDev	.00382	.00199	.00021	.00234	.00803	.0250	.00018
%RSD	17.336	1.8282	.38884	1.0810	7.8870	1.1765	.56403
#1	Q.02624	.11059	.05349	.21797	.10961	2.1533	.03145

#2	.02105	.10974	.05334	.21786	.09357	2.1034	.03165
#3	.01879	.10679	.05375	.21386	.10222	2.1243	.03181
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.02000	.10000	.05000	.20000	.10000	2.0000	.03000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	T13775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.21337	.09003	2.0420	.02133	2.1171	.21147	Q.31866
SDev	.00239	.00189	.0105	.00085	.0186	.00029	.01654
%RSD	1.1182	2.1025	.51450	3.9706	.87774	.13645	5.1909
#1	.21598	.09124	2.0371	.02059	2.0957	.21178	.33119
#2	.21130	.09100	2.0541	.02114	2.1278	.21121	Q.29991
#3	.21283	.08785	2.0349	.02225	2.1279	.21142	.32489
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.20000	.08000	2.0000	.02000	2.0000	.20000	.40000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	.21598	.10670	.04267	.21058	.20064	.20225	
SDev	.00741	.00042	.00096	.00090	.00419	.01342	
%RSD	3.4293	.38947	2.2503	.42973	2.0881	6.6369	
#1	.21403	.10674	.04161	.21161	.19755	.18687	
#2	.22416	.10710	.04348	.20992	.20541	.21156	
#3	.20974	.10627	.04293	.21022	.19897	.20833	
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	.20000	.10000	.04000	.20000	.20000	.20000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23449	--	--	--	--	--	--
SDev	181.4451	--	--	--	--	--	--
%RSD	.7737972	--	--	--	--	--	--
#1	23314	--	--	--	--	--	--
#2	23377	--	--	--	--	--	--
#3	23655	--	--	--	--	--	--

Method: 95GI601 Sample Name: ISA Operator: BH
Run Time: 04/14/95 13:21:46
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	516.70	.01623	.00186	-.00007	.00880	-.00040	511.70
SDev	1.44	.01517	.00033	.00000	.00226	.00255	1.75

%RSD	.27879	93.498	17.830	3.8774	25.666	633.00	.34151
#1	518.06	-.00093	.00147	-.00007	.00750	-.00167	509.71
#2	516.86	.02787	.00204	-.00006	.01141	.00253	512.97
#3	515.19	.02174	.00205	-.00007	.00750	-.00207	512.42
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value	500.00						500.00
Range	20.000						20.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00269	.00074	.00473	193.38	-.03419	525.63	-.00153
SDev	.00190	.00157	.00128	.28	.00538	.35	.00020
%RSD	70.524	213.05	27.004	.14288	15.742	.06613	12.863
#1	.00403	-.00031	.00325	193.07	-.03026	526.02	-.00169
#2	.00352	-.00003	.00545	193.61	-.04033	525.47	-.00160
#3	.00052	.00255	.00547	193.45	-.03199	525.38	-.00131
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value				200.00		500.00	
Range				20.000		20.000	

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.01233	-.00950	-.02387	-.00992	.00115	.00737	.10146
SDev	.00060	.00168	.07152	.00120	.00813	.00020	.07324
%RSD	4.8822	17.692	299.61	12.137	705.23	2.7631	72.185
#1	-.01201	-.01117	-.07607	-.01020	-.00348	.00750	.08529
#2	-.01196	-.00951	-.05320	-.00860	-.00361	.00746	.18143
#3	-.01303	-.00781	.05765	-.01095	.01055	.00713	.03766
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.03664	.00343	-.02205	.01549	.06967	.14277
SDev	.02322	.00036	.00153	.00076	.02286	.06057
%RSD	63.381	10.601	6.9371	4.9129	32.804	42.426
#1	.01360	.00354	-.02352	.01528	.05449	.21238
#2	.06004	.00302	-.02217	.01633	.09596	.11383
#3	.03627	.00372	-.02047	.01485	.05857	.10210
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value						
Range						

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--

Avge	22829	--	--	--	--	--	--
SDev	57.01170	--	--	--	--	--	--
%RSD	.2497373	--	--	--	--	--	--
#1	22771	--	--	--	--	--	--
#2	22885	--	--	--	--	--	--
#3	22830	--	--	--	--	--	--

Method: 95GI601 Sample Name: ISB Operator: BH
Run Time: 04/14/95 13:24:39
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	516.16	.00133	.50104	.49598	.00746	1.0004	512.10
SDev	1.51	.01388	.00309	.00176	.00084	.0052	3.43
%RSD	.29178	1045.3	.61729	.35553	11.279	.51744	.67057
#1	517.42	.01542	.50403	.49796	.00674	.99864	508.48
#2	516.56	-.01232	.50123	.49459	.00838	.99630	512.51
#3	514.49	.00088	.49786	.49538	.00725	1.0062	515.32
Errors	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	500.00		.50000	.50000		1.0000	500.00
Range	100.00		.10000	.10000		.20000	100.00

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.48524	.49036	.52440	193.83	.98211	523.66	.48192
SDev	.00642	.00068	.00406	.61	.01020	.18	.00220
%RSD	1.3238	.13798	.77445	.31574	1.0390	.03502	.45699
#1	.47863	.49019	.52832	193.16	.97674	523.60	.47961
#2	.48562	.49110	.52467	193.95	.97570	523.86	.48215
#3	.49146	.48978	.52021	194.37	.99387	523.51	.48400
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	.50000	200.00	1.0000	500.00	.50000
Range	.10000	.10000	.10000	40.000	.20000	100.00	.10000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.01130	.96902	-.07395	1.0149	-.00063	.00656	.08116
SDev	.00218	.00925	.04552	.0033	.00898	.00040	.07494
%RSD	19.292	.95426	61.557	.32859	1432.0	6.1031	92.339
#1	-.01055	.95866	-.12482	1.0114	-.01078	.00615	.09061
#2	-.01376	.97196	-.03704	1.0180	.00262	.00657	.00194
#3	-.00960	.97644	-.05999	1.0154	.00628	.00695	.15092
Errors	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value		1.0000		1.0000			
Range		.20000		.20000			

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960

Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.01559	.50307	.96689	.01483	5.0993	5.0793
SDev	.01715	.00043	.00798	.00051	.0240	.0498
%RSD	110.03	.08600	.82560	3.4334	.47067	.98079
#1	.02098	.50322	.96073	.01463	5.1153	5.0832
#2	-.00361	.50259	.97590	.01445	5.0717	5.0277
#3	.02939	.50341	.96402	.01541	5.1109	5.1271
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value		.50000	1.0000		5.0000	5.0000
Range		.10000	.20000		1.0000	1.0000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22877	--	--	--	--	--	--
SDev	167.2643	--	--	--	--	--	--
%RSD	.7311353	--	--	--	--	--	--
#1	23062	--	--	--	--	--	--
#2	22834	--	--	--	--	--	--
#3	22736	--	--	--	--	--	--

Method: 95GI601 Sample Name: CCV Operator: BH
Run Time: 04/14/95 13:27:31
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	51.152	1.0727	10.149	2.5103	5.1368	2.5431	51.187
SDev	.080	.0078	.022	.0018	.0050	.0067	.080
%RSD	.15638	.72579	.21769	.07293	.09780	.26368	.15672
#1	51.232	1.0670	10.167	2.5083	5.1315	2.5400	51.130
#2	51.072	1.0816	10.124	2.5119	5.1415	2.5508	51.279
#3	51.152	1.0696	10.155	2.5107	5.1373	2.5385	51.152
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	5.0000	.10000	1.0000	.25000	.50000	.25000	5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	5.1455	5.2487	5.1080	25.980	5.1317	51.544	5.1008
SDev	.0072	.0097	.0080	.028	.0223	.077	.0072
%RSD	.13924	.18543	.15661	.10717	.43410	.14961	.14061
#1	5.1516	5.2387	5.1160	25.973	5.1531	51.633	5.0970
#2	5.1473	5.2493	5.1000	26.011	5.1332	51.495	5.1091
#3	5.1376	5.2582	5.1079	25.956	5.1087	51.504	5.0963
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000

Range	.50000	.50000	.50000	2.5000	.50000	5.0000	.50000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	T13775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	5.1910	5.2030	49.551	1.0197	49.300	5.1337	10.037
SDev	.0212	.0162	.823	.0018	.784	.0133	.062
%RSD	.40816	.31137	1.6613	.17383	1.5899	.25848	.62209
#1	5.1715	5.1883	50.206	1.0214	49.885	5.1415	10.105
#2	5.2135	5.2204	48.627	1.0198	48.409	5.1184	9.9833
#3	5.1881	5.2002	49.821	1.0179	49.606	5.1412	10.022
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	.50000	.50000	5.0000	.10000	5.0000	.50000	1.0000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	5.1547	5.1932	5.1027	5.1383	5.1031	5.0740
SDev	.0361	.0057	.0146	.0025	.0306	.0619
%RSD	.70067	.10984	.28598	.04933	.59989	1.2194
#1	5.1175	5.1896	5.0869	5.1405	5.0704	5.0182
#2	5.1569	5.1998	5.1156	5.1355	5.1311	5.0632
#3	5.1896	5.1904	5.1056	5.1389	5.1079	5.1405
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Range	.50000	.50000	.50000	.50000	.50000	.50000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	24020	--	--	--	--	--	--
SDev	59.67691	--	--	--	--	--	--
%RSD	.2484433	--	--	--	--	--	--
#1	23991	--	--	--	--	--	--
#2	23981	--	--	--	--	--	--
#3	24089	--	--	--	--	--	--

Method: 95GI601 Sample Name: CCB 4 Operator: BH
Run Time: 04/14/95 13:30:24
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00393	.00468	.00155	.00073	.00610	-.00029	.02214
SDev	.00735	.00921	.00042	.00036	.00152	.00256	.00685
%RSD	186.85	196.66	26.871	50.182	24.823	871.32	30.958
#1	.01039	.00819	.00192	.00094	.00785	-.00292	.02952
#2	.00546	.01162	.00164	.00094	.00520	.00219	.02091
#3	-.00406	-.00576	.00110	.00031	.00526	-.00015	.01598

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.20000	.00500	.05000	.00500	5.0000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00135	-.00045	.00179	.00933	-.00450	.01047	.00094
SDev	.00281	.00133	.00107	.00122	.00160	.00279	.00015
%RSD	208.29	292.21	59.609	13.087	35.433	26.642	15.881
#1	-.00109	-.00135	.00285	.01028	-.00266	.01369	.00085
#2	.00132	.00107	.00072	.00976	-.00544	.00878	.00111
#3	-.00428	-.00108	.00180	.00795	-.00541	.00894	.00085

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.05000	.02500	.10000	.05000	5.0000	.01500
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00729	.00214	-.01050	.00027	-.00670	.00077	-.00979
SDev	.00357	.00204	.04081	.00206	.00538	.00033	.06742
%RSD	49.036	95.667	388.82	757.35	80.290	42.453	688.38
#1	.01126	.00251	-.01759	-.00147	-.00750	.00077	.02698
#2	.00626	.00397	.03339	.00254	-.00096	.00110	.03125
#3	.00434	-.00007	-.04729	-.00025	-.01163	.00044	-.08761

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.04000	5.0000	.01000	5.0000	.10000	.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	-.00098	.00130	-.00046	.00154	.01333	-.00084	
SDev	.00292	.00114	.00055	.00027	.01251	.01353	
%RSD	298.62	87.329	121.83	17.530	93.895	1614.5	
#1	.00090	.00089	-.00110	.00182	.02730	.00373	
#2	.00051	.00259	-.00015	.00154	.00952	.00982	
#3	-.00433	.00043	-.00012	.00128	.00316	-.01607	

Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.05000	.02000	.01000	.10000	.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	24189	--	--	--	--	--	--
SDev	69.74239	--	--	--	--	--	--
%RSD	.2883227	--	--	--	--	--	--
#1	24157	--	--	--	--	--	--

#2	24269	--	--	--	--	--	--	--
#3	24141	--	--	--	--	--	--	--

Analysis Report Summary Fri 04-14-95 03:33:53 PM page 1

Brian Harrenda Douglas Lucas

run 2

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#	Sample Name		File	Method	Date	Time	OpID	Type	Mode
1	SO		P10414C	95GI598	04/14/95	14:07		X	IR
2	S		P10414C	95GI598	04/14/95	14:10		X	IR
3	ICV		P10414C	95GI598	04/14/95	14:13	BH	Q	CONC
4	ICB		P10414C	95GI598	04/14/95	14:16	BH	Q	CONC
5	CRI		P10414C	95GI598	04/14/95	14:19	BH	Q	CONC
6	ISA		P10414C	95GI598	04/14/95	14:22	BH	Q	CONC
7	ISB		P10414C	95GI598	04/14/95	14:24	BH	Q	CONC
8	CCV 1		P10414C	95GI598	04/14/95	14:27	BH	Q	CONC
9	CCB		P10414C	95GI598	04/14/95	14:30	BH	Q	CONC
10	95GI598-MB1		P10414C	95GI598	04/14/95	14:33	BH	S	CONC
11	95GI598-LC1		P10414C	95GI598	04/14/95	14:36	BH	S	CONC
12	9504G211-011		P10414C	95GI598	04/14/95	14:39	BH	S	CONC
13	9504G211-012		P10414C	95GI598	04/14/95	14:42	BH	S	CONC
14	9504G211-013		P10414C	95GI598	04/14/95	14:45	BH	S	CONC
15	9504G211-014		P10414C	95GI598	04/14/95	14:48	BH	S	CONC
16	9504G211-015		P10414C	95GI598	04/14/95	14:51	BH	S	CONC
17	9504G211-015R	1	P10414C	95GI598	04/14/95	14:54	BH	S	CONC
18	9504G211-015S	1	P10414C	95GI598	04/14/95	14:57	BH	S	CONC
19	9504G211-015L	1	P10414C	95GI598	04/14/95	15:00	BH	S	CONC
20	CCV 2		P10414C	95GI598	04/14/95	15:03	BH	Q	CONC
21	CCB		P10414C	95GI598	04/14/95	15:06	BH	Q	CONC
22	9504G211-015A	1	P10414C	95GI598	04/14/95	15:10	BH	S	CONC
L.R.S. 23	BA 686 = 150ppm	1	P10414C	95GI598	04/14/95	15:13	BH	S	CONC
24	CRI		P10414C	95GI598	04/14/95	15:16	BH	Q	CONC
25	ISA		P10414C	95GI598	04/14/95	15:18	BH	Q	CONC
26	ISB		P10414C	95GI598	04/14/95	15:21	BH	Q	CONC
27	CCV 3		P10414C	95GI598	04/14/95	15:24	BH	Q	CONC
28	CCB		P10414C	95GI598	04/14/95	15:27	BH	Q	CONC

WESTON Environmental Metrics, Inc.
IC2 - ICAP 61
CLP Cover Sheet

Raw Run/Filename: P10414C

Analysis Date: 4/14/95

Standard Traceability:

	Source ID
Calibration Standard Source(s) ID:	686 : 690 : 689
	691 : 703 : 713

	Book # - Page - Line
ICV Solution #:	1276 - 75 - 1
CCV Solution #:	1276 - 72 - 4
ICSA Solution #:	1276 - 74 - 7
ICSAB Solution #:	1276 - 74 - 8
CRI Solution #:	1276 - 69 - 3
20% Standard Solution #:	1276 - 68 - 2
50% Standard Solution #:	1276 - 68 - 3

RFW's to Copy: 9504G211

Ba #686 L.R.S. - 1 copy to QC

Analyst Signature: Brian L. Hamende / Douglas [illegible] Date: 4/14/95

Reviewer Signature: Jodi L. Wojcik Date: 4/18/95

P10414C Brian L. Hamende / Douglas Lucas

Fri 04-14-95 02:10:31 PM page 1

Method: 95GI598 Standard: S0

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Avge	.00399	.00106	.00016	-.00018	.00060	.00023	.00813
SDev	.00024	.00043	.00014	.00000	.00014	.00011	.00063
%RSD	6.0825	40.456	87.876	1.0512	23.877	46.903	7.7222
#1	.00379	.00139	.00000	-.00017	.00044	.00013	.00762
#2	.00393	.00122	.00022	-.00017	.00070	.00035	.00794
#3	.00426	.00058	.00027	-.00018	.00067	.00022	.00883

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	.00112	.00001	.00000	.00012	.00022	.00048	.00045
SDev	.00024	.00033	.00000	.00011	.00012	.00028	.00002
%RSD	21.523	2467.7	.00000	94.857	52.400	59.086	5.2154
#1	.00105	.00039	.00000	.00000	.00026	.00078	.00044
#2	.00140	-.00017	.00000	.00013	.00031	.00022	.00048
#3	.00093	-.00018	.00000	.00022	.00009	.00044	.00044

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Avge	.00019	.00130	.00139	.00177	.00113	.00009	-.02260
SDev	.00002	.00026	.00007	.00044	.00012	.00000	.00054
%RSD	12.884	19.699	5.0149	24.677	10.637	1.0512	2.4048
#1	.00017	.00113	.00144	.00218	.00126	.00009	-.02199
#2	.00022	.00118	.00131	.00131	.00105	.00009	-.02278
#3	.00018	.00160	.00142	.00182	.00107	.00009	-.02304

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Avge	.00173	.00032	.00054	.00021	-.00026	.00030
SDev	.00029	.00029	.00010	.00014	.00066	.00056
%RSD	17.055	90.170	17.552	69.268	255.84	183.45
#1	.00139	.00065	.00057	.00004	-.00035	.00091
#2	.00183	.00013	.00044	.00026	-.00087	.00017
#3	.00195	.00018	.00062	.00031	.00044	-.00018

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22802	--	--	--	--	--	--
SDev	238.3086	--	--	--	--	--	--
%RSD	1.045122	--	--	--	--	--	--
#1	22961	--	--	--	--	--	--
#2	22917	--	--	--	--	--	--
#3	22528	--	--	--	--	--	--

Method: 95GI598 Standard: S

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Avge	3.6616	.18815	2.8970	.68446	1.1489	.68229	7.5914
SDev	.0009	.00245	.0018	.00052	.0009	.00055	.0067
%RSD	.02360	1.3026	.06169	.07602	.07720	.08015	.08882

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#1	3.6607	.18538	2.8962	.68433	1.1479	.68219	7.5940
#2	3.6625	.18905	2.8958	.68402	1.1494	.68288	7.5837
#3	3.6617	.19004	2.8991	.68504	1.1494	.68180	7.5964
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Avge	2.6017	1.7149	.38118	4.7973	.34738	1.8154	1.6412
SDev	.0014	.0019	.00037	.0050	.00056	.0008	.0014
%RSD	.05536	.11349	.09756	.10482	.16231	.04580	.08291
#1	2.6001	1.7153	.38105	4.7969	.34801	1.8163	1.6412
#2	2.6019	1.7128	.38089	4.7925	.34719	1.8153	1.6398
#3	2.6030	1.7166	.38160	4.8025	.34693	1.8147	1.6425
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Avge	.45489	1.2165	.51794	.42754	4.5843	1.2276	.19263
SDev	.00113	.0006	.00122	.00117	.0113	.0005	.00081
%RSD	.24902	.05249	.23483	.27264	.24602	.04292	.41971
#1	.45374	1.2171	.51689	.42691	4.5773	1.2280	.19348
#2	.45493	1.2158	.51928	.42683	4.5973	1.2270	.19254
#3	.45601	1.2166	.51766	.42889	4.5782	1.2277	.19187
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Avge	.17831	2.0127	.96746	1.5543	.60375	.58660	
SDev	.00022	.0015	.00275	.0020	.00049	.00279	
%RSD	.12173	.07218	.28401	.13020	.08095	.47618	
#1	.17856	2.0121	.96858	1.5551	.60429	.58341	
#2	.17821	2.0117	.96433	1.5520	.60333	.58777	
#3	.17816	2.0144	.96948	1.5558	.60364	.58862	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22876	--	--	--	--	--	--
SDev	25.54082	--	--	--	--	--	--
%RSD	.1116473	--	--	--	--	--	--
#1	22850	--	--	--	--	--	--
#2	22878	--	--	--	--	--	--
#3	22901	--	--	--	--	--	--

Method: 95GI598 Sample Name: ICV Operator: BH
Run Time: 04/14/95 14:13:24
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	39.763	.84433	8.1535	2.0335	4.0659	2.0268	40.916
SDev	.066	.00973	.0028	.0030	.0028	.0146	.103
%RSD	.16644	1.1523	.03378	.14737	.06872	.72167	.25217

#1	39.817	.84963	8.1567	2.0327	4.0636	2.0393	41.027
#2	39.783	.83310	8.1518	2.0368	4.0690	2.0303	40.897
#3	39.689	.85026	8.1520	2.0310	4.0650	2.0107	40.823
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	40.000	.80000	8.0000	2.0000	4.0000	2.0000	40.000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	4.1478	4.1566	4.0822	20.403	4.0614	40.360	4.0444
SDev	.0145	.0090	.0109	.024	.0463	.043	.0065
%RSD	.35051	.21721	.26592	.11969	1.1408	.10712	.16051
#1	4.1646	4.1665	4.0845	20.431	4.1055	40.404	4.0515
#2	4.1393	4.1544	4.0917	20.395	4.0656	40.318	4.0430
#3	4.1396	4.1489	4.0704	20.384	4.0131	40.357	4.0387
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	4.0000	4.0000	4.0000	20.000	4.0000	40.000	4.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	4.0715	4.1456	39.884	.80405	39.369	4.0675	8.1086
SDev	.0106	.0096	.148	.00288	.066	.0020	.0319
%RSD	.26064	.23051	.37089	.35769	.16853	.05025	.39362
#1	4.0813	4.1566	40.036	.80693	39.417	4.0691	8.1276
#2	4.0731	4.1391	39.740	.80403	39.294	4.0652	8.0717
#3	4.0602	4.1412	39.876	.80118	39.397	4.0683	8.1264
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	4.0000	4.0000	40.000	.80000	40.000	4.0000	8.0000
Range	10.000	10.000	10.000	10.000	10.000	10.000	10.000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	4.0935	4.1166	4.0280	4.0706	4.0064	4.0621	
SDev	.0152	.0041	.0155	.0041	.0371	.0445	
%RSD	.37207	.09854	.38402	.10072	.92595	1.0956	
#1	4.0765	4.1213	4.0458	4.0754	3.9809	4.0133	
#2	4.0981	4.1144	4.0181	4.0681	3.9895	4.0728	
#3	4.1059	4.1141	4.0200	4.0685	4.0490	4.1003	
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	4.0000	4.0000	4.0000	4.0000	4.0000	4.0000	
Range	10.000	10.000	10.000	10.000	10.000	10.000	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	24001	--	--	--	--	--	--
SDev	219.4060	--	--	--	--	--	--

%RSD	.9141536	--	--	--	--	--	--
#1	23771	--	--	--	--	--	--
#2	24024	--	--	--	--	--	--
#3	24208	--	--	--	--	--	--

Method: 95GI598 Sample Name: ICB Operator: BH
Run Time: 04/14/95 14:16:18
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00507	.00038	.00048	.00054	.00898	-.00030	-.00243
SDev	.00579	.00376	.00047	.00037	.00088	.00226	.00216
%RSD	114.15	997.00	97.653	68.393	9.8046	743.60	88.827
#1	-.00520	-.00233	.00036	.00097	.00970	.00229	-.00120
#2	.00078	.00468	.00100	.00032	.00926	-.00134	-.00116
#3	-.01079	-.00122	.00008	.00033	.00800	-.00186	-.00492
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.20000	.00500	.05000	.00500	5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00207	.00052	.00609	.00329	.00496	-.01937	.00067
SDev	.00071	.00117	.00528	.00093	.00332	.00860	.00004
%RSD	34.154	225.11	86.661	28.221	67.068	44.385	5.7049
#1	-.00264	-.00083	-.00000	.00234	.00605	-.01703	.00063
#2	-.00128	.00120	.00917	.00333	.00760	-.02889	.00071
#3	-.00230	.00119	.00910	.00420	.00122	-.01218	.00068
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.05000	.02500	.10000	.05000	5.0000	.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00596	.00084	-.00053	.00098	-.01320	.00034	-.01010
SDev	.00349	.00305	.04663	.00141	.00579	.00034	.04959
%RSD	58.516	364.97	8852.0	144.29	43.912	100.13	490.95
#1	.00995	-.00265	-.02046	-.00047	-.01898	.00068	.04166
#2	.00448	.00302	.05275	.00235	-.00739	-.00000	-.05719
#3	.00346	.00215	-.03387	.00105	-.01321	.00035	-.01478
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.04000	5.0000	.01000	5.0000	.10000	.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00908	-.00037	-.00249	.00091	.01155	.00280

SDev	.00586	.00089	.00120	.00002	.00615	.01892
%RSD	64.508	239.94	48.260	2.6940	53.193	676.59
#1	.01582	.00033	-.00206	.00088	.00688	-.01693
#2	.00613	-.00007	-.00156	.00093	.01851	.00453
#3	.00528	-.00137	-.00385	.00091	.00926	.02079
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.05000	.02000	.01000	.10000	.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23105	--	--	--	--	--	--
SDev	255.8952	--	--	--	--	--	--
%RSD	1.107516	--	--	--	--	--	--
#1	23379	--	--	--	--	--	--
#2	22872	--	--	--	--	--	--
#3	23065	--	--	--	--	--	--

Method: 95GI598 Sample Name: CRI Operator: BH
Run Time: 04/14/95 14:19:11
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.40200	.12444	.41318	.01038	.21490	.01004	2.1251
SDev	.01272	.00276	.00108	.00017	.00214	.00188	.0075
%RSD	3.1631	2.2182	.26039	1.6435	.99654	18.724	.35207
#1	.39063	.12610	.41229	.01058	.21243	.01159	2.1195
#2	.41573	.12597	.41287	.01028	.21598	.01058	2.1336
#3	.39963	.12126	.41437	.01029	.21629	Q.00795	2.1222
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.40000	.12000	.40000	.01000	.20000	.01000	2.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.02047	.10844	Q.06240	.21251	.11359	2.0819	.03156
SDev	.00256	.00126	.00011	.00079	.01038	.0137	.00011
%RSD	12.487	1.1578	.17827	.36995	9.1374	.65600	.35483
#1	.02328	.10738	Q.06228	.21318	.11082	2.0940	.03158
#2	.01829	.10812	Q.06241	.21272	Q.12507	2.0671	.03165
#3	.01984	.10983	Q.06250	.21164	.10487	2.0846	.03143
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	.02000	.10000	.05000	.20000	.10000	2.0000	.03000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.21278	.08499	2.0392	.02034	2.0581	.20837	.41622
SDev	.00261	.00252	.0060	.00047	.0150	.00041	.06577
%RSD	1.2243	2.9607	.29669	2.3099	.72947	.19523	15.802
#1	.20978	.08322	2.0376	.02055	2.0628	.20810	.43037
#2	.21413	.08788	2.0340	.01980	2.0413	.20819	.34453
#3	.21444	.08389	2.0458	.02066	2.0702	.20884	.47377
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.20000	.08000	2.0000	.02000	2.0000	.20000	.40000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.19422	.10665	.04152	.21027	.22178	.21891
SDev	.00237	.00022	.00146	.00052	.00351	.02188
%RSD	1.2199	.20991	3.5182	.24763	1.5844	9.9938
#1	.19695	.10645	.04250	.20977	.21804	Q.24035
#2	.19265	.10689	.03984	.21022	.22228	.21974
#3	.19307	.10661	.04221	.21081	.22502	.19662
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.20000	.10000	.04000	.20000	.20000	.20000
Range	20.000	20.000	20.000	20.000	20.000	20.000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22703	--	--	--	--	--	--
SDev	40.79624	--	--	--	--	--	--
%RSD	.1796980	--	--	--	--	--	--
#1	22746	--	--	--	--	--	--
#2	22697	--	--	--	--	--	--
#3	22665	--	--	--	--	--	--

Method: 95GI598 Sample Name: ISA Operator: BH
Run Time: 04/14/95 14:22:05
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	502.75	.00154	.00183	-.00001	.00527	.00211	497.62
SDev	1.16	.00750	.00018	.00000	.00265	.00179	1.34
%RSD	.23051	486.59	10.060	42.275	50.238	84.823	.26975
#1	504.08	.01015	.00194	-.00001	.00825	.00057	499.10
#2	502.17	-.00198	.00193	-.00001	.00437	.00168	497.29
#3	501.99	-.00355	.00162	-.00000	.00319	.00408	496.48
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass

Value	500.00						500.00
Range	20.000						20.000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00034	-.00078	.00772	187.80	-.02345	512.26	-.00154
SDev	.00400	.00030	.00132	.46	.01442	1.82	.00042
%RSD	1190.1	37.896	17.093	.24462	61.498	.35547	27.283
#1	.00448	-.00061	.00696	188.28	-.03085	514.32	-.00164
#2	-.00351	-.00113	.00695	187.76	-.00683	511.59	-.00108
#3	.00004	-.00061	.00924	187.37	-.03267	510.86	-.00190
Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value				200.00		500.00	
Range				20.000		20.000	
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.01163	-.01136	-.06684	-.01033	-.00784	.00636	.13906
SDev	.00278	.00236	.02942	.00095	.01464	.00020	.06678
%RSD	23.892	20.778	44.017	9.2320	186.76	3.1975	48.025
#1	-.01003	-.01005	-.09768	-.01128	.00538	.00649	.17405
#2	-.01001	-.01408	-.06375	-.01033	-.02357	.00612	.18108
#3	-.01484	-.00994	-.03908	-.00937	-.00533	.00645	.06205
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	-.02168	.00163	-.02545	.01204	-.12748	.10272	
SDev	.00724	.00078	.00188	.00019	.04379	.03243	
%RSD	33.392	47.916	7.3947	1.5562	34.348	31.568	
#1	-.01416	.00187	-.02612	.01218	-.08705	.06530	
#2	-.02860	.00076	-.02690	.01183	-.12142	.12240	
#3	-.02228	.00226	-.02332	.01211	-.17399	.12048	
Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	
Value							
Range							
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22671	--	--	--	--	--	--
SDev	67.41909	--	--	--	--	--	--
%RSD	.2973847	--	--	--	--	--	--
#1	22616	--	--	--	--	--	--
#2	22650	--	--	--	--	--	--
#3	22746	--	--	--	--	--	--

Method: 95GI598 Sample Name: ISB Operator: BH
Run Time: 04/14/95 14:24:58
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	501.66	.00468	.49052	.48731	.00651	.97339	499.75
SDev	.63	.01416	.00064	.00088	.00096	.00752	1.36
%RSD	.12576	302.92	.12997	.17996	14.722	.77253	.27294
#1	501.31	-.00377	.49081	.48827	.00755	.96578	499.81
#2	502.39	-.00323	.48978	.48710	.00565	.97358	501.09
#3	501.28	.02103	.49095	.48655	.00633	.98081	498.36
Errors	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	500.00		.50000	.50000		1.0000	500.00
Range	100.00		.10000	.10000		.20000	100.00

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.47464	.47345	.51258	188.44	.93087	510.92	.46869
SDev	.00073	.00224	.00174	.42	.01592	1.05	.00137
%RSD	.15343	.47220	.34012	.22536	1.7105	.20485	.29139
#1	.47547	.47497	.51096	188.59	.91640	511.00	.46906
#2	.47437	.47449	.51443	188.77	.94793	511.92	.46983
#3	.47409	.47088	.51234	187.96	.92828	509.83	.46718
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	.50000	200.00	1.0000	500.00	.50000
Range	.10000	.10000	.10000	40.000	.20000	100.00	.10000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.01458	.93976	-.06443	.98709	.00459	.00612	.16170
SDev	.00539	.00292	.06755	.00560	.00543	.00026	.02977
%RSD	36.978	.31065	104.85	.56784	118.29	4.1594	18.408
#1	-.01947	.94149	-.02150	.99046	.01011	.00626	.12739
#2	-.00880	.94140	-.02949	.99018	.00438	.00628	.18062
#3	-.01547	.93639	-.14230	.98062	-.00073	.00583	.17710
Errors	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value		1.0000		1.0000			
Range		.20000		.20000			

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.01020	.49130	.94173	.01225	4.7793	4.9196
SDev	.01389	.00209	.00858	.00041	.0197	.0205
%RSD	136.18	.42446	.91140	3.3685	.41230	.41667
#1	-.00181	.49248	.93906	.01269	4.7645	4.9110
#2	-.02622	.49252	.95133	.01188	4.7717	4.9048

#3	-.00255	.48889	.93480	.01217	4.8017	4.9430	
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	
Value		.50000	1.0000		5.0000	5.0000	
Range		.10000	.20000		1.0000	1.0000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22759	--	--	--	--	--	--
SDev	158.8112	--	--	--	--	--	--
%RSD	.6977952	--	--	--	--	--	--
#1	22694	--	--	--	--	--	--
#2	22643	--	--	--	--	--	--
#3	22940	--	--	--	--	--	--

Method: 95GI598 Sample Name: CCV \ Operator: BH
Run Time: 04/14/95 14:27:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	50.670	1.0419	10.091	2.5085	5.1092	2.5166	50.992
SDev	.058	.0144	.006	.0039	.0065	.0031	.180
%RSD	.11494	1.3788	.05796	.15719	.12754	.12402	.35365
#1	50.722	1.0581	10.086	2.5129	5.1128	2.5188	51.159
#2	50.681	1.0307	10.098	2.5069	5.1131	2.5130	51.017
#3	50.607	1.0369	10.090	2.5055	5.1017	2.5180	50.801
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	5.0000	.10000	1.0000	.25000	.50000	.25000	5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	5.0674	5.1758	5.0828	25.619	5.0665	50.743	5.0421
SDev	.0187	.0108	.0091	.049	.0264	.046	.0098
%RSD	.36942	.20812	.17990	.19255	.52104	.09143	.19529
#1	5.0868	5.1871	5.0886	25.664	5.0956	50.692	5.0504
#2	5.0658	5.1747	5.0875	25.627	5.0595	50.783	5.0445
#3	5.0495	5.1656	5.0723	25.567	5.0443	50.752	5.0312
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	.50000	.50000	.50000	2.5000	.50000	5.0000	.50000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	5.1048	5.1282	49.694	1.0093	49.045	5.0664	9.9767
SDev	.0082	.0172	.039	.0017	.077	.0030	.0580
%RSD	.16053	.33445	.07948	.16552	.15761	.05879	.58133

#1	5.0977	5.1412	49.720	1.0100	49.001	5.0676	9.9177
#2	5.1138	5.1346	49.713	1.0105	49.134	5.0685	10.034
#3	5.1029	5.1087	49.648	1.0074	48.998	5.0630	9.9786
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	.50000	.50000	5.0000	.10000	5.0000	.50000	1.0000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	5.0618	5.1521	5.0559	5.1118	5.0395	5.0732	
SDev	.0352	.0090	.0093	.0052	.0332	.0048	
%RSD	.69503	.17475	.18448	.10241	.65800	.09446	
#1	5.0717	5.1616	5.0661	5.1167	5.0160	5.0677	
#2	5.0911	5.1509	5.0478	5.1123	5.0774	5.0750	
#3	5.0228	5.1437	5.0537	5.1063	5.0251	5.0767	
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Range	.50000	.50000	.50000	.50000	.50000	.50000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23288	--	--	--	--	--	--
SDev	117.6279	--	--	--	--	--	--
%RSD	.5050939	--	--	--	--	--	--
#1	23174	--	--	--	--	--	--
#2	23282	--	--	--	--	--	--
#3	23409	--	--	--	--	--	--

Method: 95GI598 Sample Name: CCB Operator: BH
Run Time: 04/14/95 14:30:43
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00947	-.00351	.00057	.00034	.00832	-.00117	.01314
SDev	.00896	.00340	.00019	.00001	.00210	.00118	.00590
%RSD	94.626	96.956	32.684	2.8907	25.190	101.34	44.889
#1	.00974	-.00028	.00069	.00033	.01071	-.00046	.01959
#2	.01828	-.00319	.00067	.00034	.00683	-.00051	.01180
#3	.00037	-.00706	.00036	.00035	.00741	-.00253	.00803
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.20000	.00500	.05000	.00500	5.0000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM

Avge	.00046	.00018	.00905	.01031	-.00004	-.00336	.00048
SDev	.00298	.00111	.00009	.00078	.00629	.03036	.00012
%RSD	642.86	614.02	1.0248	7.5311	14796.	904.52	24.783
#1	.00390	.00145	.00913	.01057	.00627	.03102	.00043
#2	-.00148	-.00033	.00906	.01093	-.00009	-.01460	.00040
#3	-.00103	-.00058	.00895	.00944	-.00632	-.02649	.00062
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.05000	.02500	.10000	.05000	5.0000	.01500
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00596	-.00137	-.05727	.00121	-.00764	.00034	-.00557
SDev	.00300	.00056	.02314	.00193	.00240	.00036	.03409
%RSD	50.312	40.793	40.411	159.27	31.386	105.96	611.63
#1	.00923	-.00179	-.03295	.00332	-.01033	.00070	.03374
#2	.00533	-.00073	-.05984	.00082	-.00572	.00034	-.02696
#3	.00333	-.00157	-.07902	-.00049	-.00688	-.00002	-.02350
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.04000	5.0000	.01000	5.0000	.10000	.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	-.00492	-.00022	-.00280	.00109	.00526	-.00200	
SDev	.01326	.00035	.00068	.00034	.00479	.01773	
%RSD	269.54	159.73	24.308	31.444	90.925	885.12	
#1	-.01617	.00016	-.00337	.00148	.00143	-.01268	
#2	.00970	-.00030	-.00205	.00090	.00373	.01846	
#3	-.00829	-.00053	-.00298	.00087	.01063	-.01180	
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.10000	.05000	.02000	.01000	.10000	.10000	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23193	--	--	--	--	--	--
SDev	241.1286	--	--	--	--	--	--
%RSD	1.039661	--	--	--	--	--	--
#1	22975	--	--	--	--	--	--
#2	23152	--	--	--	--	--	--
#3	23452	--	--	--	--	--	--

Method: 95GI598 Sample Name: 95GI598-MB1 Operator: BH
Run Time: 04/14/95 14:33:36

(CLP)

Com t:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00106	.00138	-.00081	.00033	.00745	-.00057	.04477
SDev	.00795	.00317	.00030	.00001	.00053	.00129	.00251
%RSD	746.86	228.99	37.218	1.7634	7.0608	225.58	5.6176
#1	.00072	-.00213	-.00081	.00032	.00696	-.00066	.04598
#2	-.00975	.00404	-.00112	.00033	.00800	-.00181	.04188
#3	.00584	.00224	-.00051	.00032	.00738	.00076	.04645
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.20000	.06000	.20000	.00500	.05000	.00500	5.0000
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00067	-.00083	-.00000	.04845	.00459	.00318	.00034
SDev	.00211	.00342	.00000	.00202	.00138	.02474	.00017
%RSD	312.44	410.99	167.02	4.1625	29.989	777.75	49.411
#1	-.00062	.00197	-.00000	.05066	.00379	.00956	.00044
#2	-.00281	-.00464	-.00000	.04797	.00618	-.02413	.00015
#3	.00140	.00018	.00000	.04671	.00380	.02411	.00045
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.01000	.05000	.02500	.10000	.05000	5.0000	.01500
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00094	.00073	-.01270	.00030	-.00107	-.00024	-.08414
SDev	.00147	.00012	.03523	.00051	.00481	.00021	.05670
%RSD	156.60	15.946	277.40	168.43	450.64	86.438	67.379
#1	.00255	.00082	.01865	.00073	.00213	-.00036	-.03899
#2	.00059	.00077	-.05083	.00045	-.00659	-.00036	-.06567
#3	-.00033	.00060	-.00592	-.00027	.00126	-.00000	-.14777
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.04000	5.0000	.01000	5.0000	.10000	.50000
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.01881	-.00087	-.00140	-.00001	.00150	-.00947
SDev	.00076	.00090	.00133	.00043	.00710	.00890
%RSD	4.0546	104.22	94.842	5419.5	473.24	94.021
#1	.01820	.00014	-.00064	.00009	-.00627	.00074
#2	.01966	-.00159	-.00294	-.00048	.00312	-.01564
#3	.01856	-.00115	-.00063	.00037	.00765	-.01350
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.10000	.05000	.02000	.01000	.10000	.10000
Low	-.10000	-.05000	-.02000	-.01000	-.10000	-.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22932	--	--	--	--	--	--
SDev	135.0938	--	--	--	--	--	--
%RSD	.5890974	--	--	--	--	--	--
#1	22892	--	--	--	--	--	--
#2	23083	--	--	--	--	--	--
#3	22822	--	--	--	--	--	--

Method: 95GI598 Sample Name: 95GI598-LC1 Operator: BH
Run Time: 04/14/95 14:36:30
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	1.9362	.49722	1.9592	.04632	.96888	.05285	9.8803
SDev	.0099	.00786	.0008	.00011	.00232	.00231	.0355
%RSD	.50909	1.5809	.04173	.22739	.23987	4.3663	.35943
#1	1.9248	.48896	1.9600	.04627	.96819	.05383	9.8499
#2	1.9419	.49808	1.9592	.04644	.97147	.05021	9.8717
#3	1.9419	.50461	1.9584	.04625	.96697	.05450	9.9193
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	2.4000	.60000	2.4000	.06000	1.2000	.06000	12.000
Low	1.6000	.40000	1.6000	.04000	.80000	.04000	8.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.19805	.50397	.25760	1.0267	.47970	9.8441	.49066
SDev	.00124	.00260	.00128	.0046	.00117	.0139	.00231
%RSD	.62623	.51499	.49558	.45273	.24478	.14096	.46980
#1	.19804	.50206	.25764	1.0216	.47941	9.8573	.48842
#2	.19681	.50293	.25631	1.0281	.47870	9.8297	.49053
#3	.19929	.50693	.25886	1.0306	.48099	9.8453	.49303
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	.24000	.60000	.30000	1.2000	.60000	12.000	.60000
Low	.16000	.40000	.20000	.80000	.40000	8.0000	.40000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.98193	.50343	9.6304	.04685	9.6327	.98843	1.8653
SDev	.00549	.00416	.0576	.00139	.0750	.00079	.0569
%RSD	.55949	.82665	.59843	2.9642	.77906	.08010	3.0495
#1	.97558	.49894	9.6912	.04585	9.7173	.98768	1.9304
#2	.98503	.50420	9.5765	.04626	9.6063	.98925	1.8403
#3	.98517	.50716	9.6234	.04843	9.5744	.98834	1.8253

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2000	.60000	12.000	.06000	12.000	1.2000	2.4000
Low	.80000	.40000	8.0000	.04000	8.0000	.80000	1.6000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.97699	.50349	.47728	.99802	1.8994	1.8904
SDev	.01095	.00060	.00540	.00191	.0298	.0251
%RSD	1.1211	.11895	1.1311	.19122	1.5666	1.3258
#1	.96680	.50280	.47418	.99626	1.8653	1.9039
#2	.97558	.50383	.47415	.99775	1.9132	1.9058
#3	.98857	.50384	.48351	1.0000	1.9199	1.8615

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	1.2000	.60000	.60000	1.2000	2.4000	2.4000
Low	.80000	.40000	.40000	.80000	1.6000	1.6000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22880	--	--	--	--	--	--
SDev	161.1500	--	--	--	--	--	--
%RSD	.7043168	--	--	--	--	--	--
#1	23013	--	--	--	--	--	--
#2	22927	--	--	--	--	--	--
#3	22701	--	--	--	--	--	--

Method: 95GI598 Sample Name: 9504G211-011 Operator: BH
Run Time: 04/14/95 14:39:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	63.775	-.00894	.36522	.00254	.04363	-.00058	8.1072
SDev	.025	.00380	.00068	.00018	.00156	.00263	.0408
%RSD	.03875	42.542	.18533	6.9130	3.5814	451.96	.50324
#1	63.788	-.00718	.36538	.00274	.04234	.00124	8.0638
#2	63.790	-.01330	.36581	.00244	.04537	.00062	8.1448
#3	63.746	-.00634	.36448	.00244	.04318	-.00360	8.1132

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.16700	.02757	.06844	108.40	.03417	16.306	1.7154
SDev	.00555	.00153	.00061	.19	.00514	.083	.0039
%RSD	3.3239	5.5525	.88999	.17202	15.044	.50907	.22589
#1	.16090	.02589	.06871	108.21	.03240	16.215	1.7115

#2	.16833	.02889	.06774	108.58	.03014	16.376	1.7192
#3	.17176	.02792	.06886	108.42	.03996	16.328	1.7154
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00444	.83291	5.2236	-.00169	3.1072	.03245	-.05561
SDev	.00092	.00303	.0469	.00122	.0015	.00016	.08900
%RSD	20.705	.36365	.89818	72.446	.04875	.48194	160.04
#1	-.00535	.82941	5.1697	-.00275	3.1088	.03263	-.07210
#2	-.00351	.83460	5.2455	-.00035	3.1058	.03236	-.13522
#3	-.00445	.83471	5.2555	-.00197	3.1069	.03237	.04048
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	.00888	.24018	.22061	1.1785	.01237	-.00200	
SDev	.00015	.00098	.00170	.0012	.01637	.03094	
%RSD	1.6422	.40633	.76896	.10315	132.33	1548.3	
#1	.00871	.23905	.22058	1.1776	.01507	-.03695	
#2	.00894	.24080	.22232	1.1799	-.00518	.02190	
#3	.00897	.24069	.21892	1.1781	.02722	.00905	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	100.00	100.00	100.00	100.00	100.00	100.00	
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23815	--	--	--	--	--	--
SDev	29.71532	--	--	--	--	--	--
%RSD	.1247756	--	--	--	--	--	--
#1	23849	--	--	--	--	--	--
#2	23802	--	--	--	--	--	--
#3	23794	--	--	--	--	--	--

Method: 95GI598 Sample Name: 9504G211-012 Operator: BH
Run Time: 04/14/95 14:42:16
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	13.773	-.01331	.04015	.00094	.03014	-.00019	322.01
SDev	.021	.00496	.00014	.00032	.00119	.00237	.59

%RSD	.15479	37.295	.34680	33.527	3.9570	1228.6	.18305
#1	13.797	-.01040	.04028	.00126	.02914	-.00120	322.37
#2	13.763	-.01904	.04017	.00063	.03146	.00252	321.33
#3	13.758	-.01049	.04001	.00094	.02982	-.00189	322.34
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.04296	.01260	.04180	43.733	.02177	193.31	.78006
SDev	.00234	.00246	.00317	.079	.01270	.24	.00110
%RSD	5.4505	19.512	7.5812	.18126	58.332	.12577	.14037
#1	.04439	.01534	.04518	43.805	.03600	193.58	.78061
#2	.04025	.01061	.04132	43.648	.01161	193.25	.77880
#3	.04422	.01183	.03890	43.747	.01769	193.10	.78077
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	T13775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00169	.26154	2.2138	-.00493	.95017	.11373	.05444
SDev	.00242	.00161	.0720	.00210	.01085	.00009	.02240
%RSD	143.58	.61701	3.2542	42.453	1.1421	.08103	41.144
#1	.00057	.26155	2.2901	-.00273	.94024	.11383	.05827
#2	-.00138	.26316	2.1469	-.00690	.96176	.11374	.03038
#3	-.00425	.25993	2.2044	-.00518	.94851	.11364	.07468
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	-.00546	.07324	.16676	.92991	.01161	.06576	
SDev	.00164	.00052	.00175	.00143	.01341	.02525	
%RSD	30.094	.71507	1.0498	.15367	115.54	38.405	
#1	-.00399	.07365	.16789	.93150	-.00064	.04774	
#2	-.00723	.07265	.16475	.92948	.00952	.09462	
#3	-.00514	.07343	.16765	.92874	.02594	.05491	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	100.00	100.00	100.00	100.00	100.00	100.00	
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--

Avge	23032	--	--	--	--	--	--
SDev	166.1365	--	--	--	--	--	--
%RSD	.7213394	--	--	--	--	--	--
#1	22847	--	--	--	--	--	--
#2	23079	--	--	--	--	--	--
#3	23169	--	--	--	--	--	--

Method: 95GI598 Sample Name: 9504G211-013 Operator: BH
Run Time: 04/14/95 14:45:28
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	39.483	-.00375	.28830	.00254	.03126	-.00173	6.6129
SDev	.029	.00973	.00048	.00017	.00135	.00254	.0179
%RSD	.07281	259.47	.16732	6.8479	4.3283	146.70	.27008
#1	39.451	.00608	.28886	.00243	.02971	-.00146	6.5967
#2	39.494	-.00395	.28803	.00244	.03217	-.00440	6.6321
#3	39.506	-.01338	.28802	.00274	.03191	.00066	6.6100
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.11072	.03399	.06803	114.60	.04160	10.653	2.1849
SDev	.00151	.00017	.00032	.23	.00331	.018	.0037
%RSD	1.3636	.49143	.46838	.20149	7.9526	.17155	.16807
#1	.11224	.03389	.06821	114.33	.04462	10.665	2.1807
#2	.11072	.03418	.06766	114.71	.03807	10.632	2.1864
#3	.10922	.03390	.06821	114.75	.04210	10.662	2.1875
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00589	.53904	3.8741	-.00029	1.9534	.02297	-.05381
SDev	.00141	.00096	.0300	.00157	.0099	.00009	.05980
%RSD	23.997	.17830	.77318	543.18	.50471	.37560	111.13
#1	-.00436	.54002	3.8492	-.00050	1.9547	.02301	-.11176
#2	-.00714	.53809	3.9073	.00137	1.9626	.02287	.00768
#3	-.00619	.53901	3.8657	-.00174	1.9430	.02302	-.05735
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960

Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.02244	.24701	.20839	.53555	.03711	-.01592
SDev	.01511	.00096	.00348	.00028	.02032	.00855
%RSD	67.311	.38690	1.6716	.05281	54.738	53.709
#1	.00501	.24627	.20618	.53588	.03296	-.02000
#2	.03173	.24809	.21241	.53539	.01920	-.00609
#3	.03059	.24668	.20658	.53539	.05919	-.02166
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	100.00	100.00
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23863	--	--	--	--	--	--
SDev	111.4331	--	--	--	--	--	--
%RSD	.4669767	--	--	--	--	--	--
#1	23928	--	--	--	--	--	--
#2	23734	--	--	--	--	--	--
#3	23926	--	--	--	--	--	--

Method: 95GI598 Sample Name: 9504G211-014 Operator: BH
Run Time: 04/14/95 14:48:28
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	55.351	.00568	.37662	.00237	.02030	-.00062	31.577
SDev	.006	.00443	.00021	.00018	.00063	.00195	.021
%RSD	.01149	78.046	.05590	7.5391	3.1190	312.41	.06717
#1	55.345	.00870	.37638	.00216	.01957	.00145	31.553
#2	55.358	.00775	.37678	.00248	.02071	-.00242	31.584
#3	55.350	.00059	.37669	.00247	.02062	-.00091	31.594
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.10581	.01792	.04780	74.876	.03944	21.672	1.1530
SDev	.00170	.00116	.00132	.049	.01309	.093	.0016
%RSD	1.6083	6.4780	2.7536	.06528	33.193	.42943	.13702
#1	.10399	.01926	.04932	74.827	.02765	21.582	1.1512
#2	.10735	.01728	.04714	74.924	.05353	21.666	1.1540
#3	.10610	.01721	.04695	74.877	.03713	21.768	1.1539
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000

Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00216	.07843	10.189	.00051	4.2825	.03501	-.03814
SDev	.00195	.00012	.028	.00111	.0111	.00016	.08030
%RSD	90.031	.15657	.27462	217.56	.25834	.44680	210.56
#1	-.00060	.07830	10.185	.00042	4.2833	.03515	.03051
#2	-.00435	.07855	10.163	-.00055	4.2711	.03484	-.12644
#3	-.00155	.07845	10.218	.00166	4.2932	.03504	-.01847
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00662	.16457	.13492	.65002	.00418	.02913
SDev	.01486	.00095	.00109	.00158	.00878	.00430
%RSD	224.49	.57640	.81050	.24248	210.23	14.770
#1	.00211	.16566	.13444	.64845	.00667	.03020
#2	-.02378	.16395	.13415	.65160	.01144	.02439
#3	.00181	.16410	.13617	.65001	-.00558	.03279
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	100.00	100.00
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23554	--	--	--	--	--	--
SDev	50.36202	--	--	--	--	--	--
%RSD	.2138182	--	--	--	--	--	--
#1	23538	--	--	--	--	--	--
#2	23513	--	--	--	--	--	--
#3	23610	--	--	--	--	--	--

Method: 95GI598 Sample Name: 9504G211-015 Operator: BH
Run Time: 04/14/95 14:51:28
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	11.680	-.00808	.03824	.00094	.01597	.00135	288.49
SDev	.030	.00576	.00052	.00000	.00127	.00323	1.33
%RSD	.26101	71.285	1.3466	.33352	7.9336	238.75	.46172
#1	11.655	-.00736	.03776	.00095	.01475	-.00155	286.96
#2	11.672	-.01416	.03878	.00094	.01728	.00484	289.21
#3	11.714	-.00271	.03817	.00094	.01588	.00078	289.31

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.03633	.01359	.03389	35.792	.01855	152.90	1.2185
SDev	.00032	.00050	.00265	.125	.00162	.08	.0049
%RSD	.89299	3.6685	7.8308	.34895	8.7445	.05457	.40038
#1	.03641	.01336	.03278	35.648	.02033	152.81	1.2129
#2	.03598	.01324	.03196	35.863	.01816	152.95	1.2217
#3	.03661	.01416	.03691	35.866	.01716	152.96	1.2210
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	T13775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00164	.18818	1.1614	-.00353	.66038	.10006	.14723
SDev	.00225	.00360	.0532	.00179	.00760	.00035	.02376
%RSD	136.98	1.9121	4.5779	50.773	1.1515	.34874	16.137
#1	-.00036	.18412	1.1618	-.00200	.66859	.09970	.12614
#2	-.00032	.18945	1.1080	-.00550	.65358	.10039	.14259
#3	-.00424	.19097	1.2143	-.00310	.65897	.10010	.17297
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	.00014	.05248	.09878	1.1073	.00075	.07335	
SDev	.00077	.00023	.00258	.0041	.01914	.03747	
%RSD	549.90	.43726	2.6096	.36942	2543.3	51.087	
#1	-.00070	.05239	.09944	1.1031	-.01928	.09068	
#2	.00029	.05230	.09593	1.1113	.01886	.03035	
#3	.00083	.05274	.10096	1.1076	.00268	.09902	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	100.00	100.00	100.00	100.00	100.00	100.00	
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22516	--	--	--	--	--	--
SDev	207.7234	--	--	--	--	--	--
%RSD	.9225590	--	--	--	--	--	--
#1	22733	--	--	--	--	--	--

#2	22496	--	--	--	--	--	--
#3	22319	--	--	--	--	--	--

Method: 95GI598 Sample Name: 9504G211-015R 1 Operator: BH
Run Time: 04/14/95 14:54:31
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	11.589	-.01944	.05538	.00062	.01973	-.00100	328.13
SDev	.018	.00546	.00049	.00000	.00089	.00320	1.62
%RSD	.15441	28.082	.87676	.66132	4.4887	321.08	.49277
#1	11.609	-.01653	.05542	.00062	.02068	.00143	328.27
#2	11.573	-.02574	.05488	.00063	.01892	.00020	326.44
#3	11.586	-.01606	.05585	.00062	.01958	-.00462	329.67
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.03715	.01287	.04598	39.030	.01615	188.40	1.6782
SDev	.00252	.00063	.00204	.122	.01026	.33	.0065
%RSD	6.7767	4.8599	4.4368	.31250	63.542	.17293	.38938
#1	.03433	.01359	.04647	39.069	.00479	188.61	1.6794
#2	.03916	.01244	.04374	38.893	.02475	188.03	1.6712
#3	.03796	.01259	.04773	39.127	.01889	188.57	1.6840
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00188	.33687	1.3324	-.00581	.71568	.10179	.01852
SDev	.00239	.00515	.0416	.00074	.00844	.00013	.05555
%RSD	127.49	1.5274	3.1235	12.807	1.1794	.12997	299.96
#1	.00158	.33690	1.3163	-.00651	.72486	.10192	-.03158
#2	.00440	.33171	1.3012	-.00503	.71393	.10166	.07826
#3	-.00035	.34200	1.3797	-.00589	.70826	.10179	.00888
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00153	.06182	.08866	.64479	.00559	.07159
SDev	.00730	.00014	.00232	.00151	.02124	.05383
%RSD	478.74	.22371	2.6155	.23383	379.75	75.192

#1	.00608	.06168	.08966	.64625	-.00323	.13332
#2	-.00217	.06195	.08601	.64324	-.00981	.04706
#3	-.00849	.06183	.09032	.64490	.02983	.03439

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	100.00	100.00
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22771	--	--	--	--	--	--
SDev	142.8787	--	--	--	--	--	--
%RSD	.6274684	--	--	--	--	--	--
#1	22715	--	--	--	--	--	--
#2	22933	--	--	--	--	--	--
#3	22664	--	--	--	--	--	--

Method: 95GI598 Sample Name: 9504G211-015S 1 Operator: BH
Run Time: 04/14/95 14:57:30
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	14.272	.35793	2.0455	.04855	1.0054	.05359	383.09
SDev	.013	.01216	.0003	.00017	.0019	.00266	1.38
%RSD	.09361	3.3973	.01446	.34375	.19379	4.9697	.36142
#1	14.258	.34500	2.0454	.04858	1.0051	.05150	383.24
#2	14.274	.36914	2.0459	.04837	1.0037	.05659	381.64
#3	14.285	.35963	2.0453	.04870	1.0075	.05269	384.39

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.23521	.50768	.29173	34.186	.49686	212.87	1.5405
SDev	.00315	.00356	.00170	.078	.00505	.58	.0047
%RSD	1.3375	.70070	.58268	.22690	1.0170	.27286	.30252
#1	.23733	.50965	.29067	34.184	.50101	212.94	1.5416
#2	.23160	.50358	.29083	34.109	.49123	212.25	1.5354
#3	.23671	.50982	.29369	34.265	.49835	213.41	1.5445

Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.97607	.62182	11.987	.04566	10.999	1.1350	2.0421

SDev	.00286	.00092	.090	.00285	.033	.0010	.0262
%RSD	.29299	.14751	.75333	6.2502	.29959	.08581	1.2806
#1	.97642	.62265	11.924	.04783	10.988	1.1357	2.0213
#2	.97305	.62196	11.947	.04243	10.973	1.1339	2.0714
#3	.97874	.62083	12.091	.04672	11.036	1.1355	2.0336
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	.95771	.57160	.56235	1.7357	2.0077	2.0251	
SDev	.00633	.00243	.00432	.0038	.0158	.0267	
%RSD	.66115	.42589	.76864	.21807	.78798	1.3162	
#1	.96494	.57436	.56593	1.7355	2.0026	2.0033	
#2	.95316	.56978	.55755	1.7320	1.9952	2.0548	
#3	.95503	.57065	.56358	1.7396	2.0255	2.0171	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	100.00	100.00	100.00	100.00	100.00	100.00	
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22566	--	--	--	--	--	--
SDev	166.3801	--	--	--	--	--	--
%RSD	.7372934	--	--	--	--	--	--
#1	22498	--	--	--	--	--	--
#2	22756	--	--	--	--	--	--
#3	22445	--	--	--	--	--	--

Method: 95GI598 Sample Name: 9504G211-015L 1 Operator: BH
Run Time: 04/14/95 15:00:33
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	2.2919	-.00190	.00670	.00013	.00372	.00077	59.413
SDev	.0181	.00383	.00044	.00036	.00062	.00273	.110
%RSD	.79116	201.42	6.5538	279.73	16.683	355.01	.18493
#1	2.2916	-.00540	.00663	.00033	.00338	.00265	59.403
#2	2.2740	-.00249	.00630	.00034	.00335	.00201	59.308
#3	2.3103	.00219	.00717	-.00029	.00444	-.00236	59.527
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00766	.00220	.01776	7.5137	.00442	30.391	.25417
SDev	.00424	.00176	.00066	.0053	.00438	.101	.00023
%RSD	55.399	80.072	3.7171	.07059	99.119	.33341	.09016
#1	.01179	.00204	.01819	7.5173	.00405	30.421	.25392
#2	.00331	.00052	.01700	7.5076	.00897	30.474	.25422
#3	.00789	.00403	.01808	7.5161	.00024	30.278	.25437
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00149	.03890	.19426	-.00097	.11268	.01984	.03179
SDev	.00330	.00257	.06986	.00162	.01015	.00022	.02474
%RSD	221.24	6.5976	35.964	166.68	9.0086	1.1132	77.828
#1	.00530	.03897	.23202	-.00002	.11190	.02003	.02866
#2	-.00041	.03631	.11364	-.00284	.10294	.01960	.00876
#3	-.00042	.04144	.23712	-.00005	.12320	.01989	.05795
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.01453	.00956	.01715	.22348	.00470	.02153
SDev	.00144	.00167	.00193	.00091	.01069	.03344
%RSD	9.9288	17.495	11.277	.40812	227.31	155.30
#1	-.01344	.01139	.01515	.22452	-.00722	.02444
#2	-.01616	.00812	.01731	.22282	.01346	-.01327
#3	-.01397	.00917	.01901	.22311	.00787	.05342
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	100.00	100.00	100.00
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23269	--	--	--	--	--	--
SDev	75.10659	--	--	--	--	--	--
%RSD	.3227753	--	--	--	--	--	--
#1	23189	--	--	--	--	--	--
#2	23280	--	--	--	--	--	--
#3	23338	--	--	--	--	--	--

Method: 95GI598 Sample Name: CCV 2 Operator: BH
Run Time: 04/14/95 15:03:26
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	50.776	1.0415	10.094	2.5094	5.1176	2.5290	51.193
SDev	.103	.0101	.011	.0022	.0157	.0208	.160
%RSD	.20382	.97257	.10670	.08687	.30656	.82125	.31181
#1	50.669	1.0325	10.084	2.5071	5.1008	2.5084	51.041
#2	50.786	1.0525	10.106	2.5115	5.1318	2.5288	51.178
#3	50.875	1.0396	10.093	2.5097	5.1203	2.5499	51.359
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	5.0000	.10000	1.0000	.25000	.50000	.25000	5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	5.0987	5.1905	5.0965	25.651	5.0771	51.004	5.0574
SDev	.0077	.0180	.0064	.032	.0283	.028	.0104
%RSD	.15201	.34657	.12557	.12335	.55667	.05443	.20525
#1	5.0905	5.1752	5.0970	25.615	5.0475	50.974	5.0460
#2	5.1060	5.1860	5.0899	25.666	5.0800	51.007	5.0598
#3	5.0997	5.2103	5.1026	25.673	5.1038	51.029	5.0663
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	.50000	.50000	.50000	2.5000	.50000	5.0000	.50000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	5.1184	5.1378	49.956	1.0072	49.344	5.0787	9.9849
SDev	.0236	.0122	.270	.0040	.185	.0056	.0611
%RSD	.46094	.23704	.54016	.39698	.37417	.11029	.61218
#1	5.0934	5.1319	49.659	1.0056	49.143	5.0725	9.9261
#2	5.1217	5.1296	50.025	1.0043	49.505	5.0833	9.9806
#3	5.1402	5.1518	50.185	1.0118	49.386	5.0804	10.048
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	.50000	.50000	5.0000	.10000	5.0000	.50000	1.0000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	5.1873	5.1720	5.0887	5.1268	5.0526	5.0775
SDev	.0236	.0077	.0278	.0065	.0122	.0351
%RSD	.45462	.14952	.54612	.12597	.24108	.69068
#1	5.1731	5.1641	5.0639	5.1194	5.0610	5.0460
#2	5.1742	5.1723	5.0836	5.1309	5.0386	5.1153
#3	5.2145	5.1796	5.1187	5.1302	5.0581	5.0712
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass

Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000	
Range	.50000	.50000	.50000	.50000	.50000	.50000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	23257	--	--	--	--	--	--
SDev	182.1245	--	--	--	--	--	--
%RSD	.7831066	--	--	--	--	--	--
#1	23280	--	--	--	--	--	--
#2	23426	--	--	--	--	--	--
#3	23064	--	--	--	--	--	--

Method: 95GI598 Sample Name: CCB J Operator: BH
Run Time: 04/14/95 15:06:21
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00095	-.00415	.00031	.00020	.00584	-.00078	.01915
SDev	.00928	.00579	.00015	.00021	.00063	.00211	.00389
%RSD	974.46	139.63	49.048	104.12	10.831	269.35	20.323
#1	-.00455	.00234	.00040	.00032	.00553	.00041	.01818
#2	-.00790	-.00598	.00039	.00033	.00657	.00046	.01584
#3	.00959	-.00880	.00013	-.00004	.00542	-.00321	.02344
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.20000	.00500	.05000	.00500	5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00127	-.00101	.00316	.00507	-.01056	-.00941	.00084
SDev	.00236	.00169	.00548	.00105	.00736	.01109	.00022
%RSD	186.56	166.45	173.34	20.677	69.637	117.86	26.748
#1	-.00091	-.00266	-.00000	.00520	-.01905	.00260	.00073
#2	-.00378	-.00110	-.00000	.00605	-.00631	-.01926	.00070
#3	.00090	.00072	.00950	.00396	-.00632	-.01156	.00110
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.05000	.02500	.10000	.05000	5.0000	.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00521	.00028	.02298	-.00111	-.01647	.00037	-.04314
SDev	.00299	.00146	.02848	.00205	.00538	.00036	.05792
%RSD	57.377	524.67	123.95	184.93	32.664	98.248	134.28
#1	.00648	.00095	.01239	.00058	-.01304	.00072	-.06003
#2	.00735	-.00140	.00131	-.00052	-.02267	-.00000	.02135

#3	.00179	.00128	.05524	-.00339	-.01370	.00039	-.09073
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.04000	5.0000	.01000	5.0000	.10000	.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	.00998	-.00005	-.00088	.00124	-.00004	-.00102	
SDev	.00421	.00045	.00063	.00005	.01240	.00951	
%RSD	42.221	976.51	71.700	3.9275	29324.	934.27	
#1	.00685	.00038	-.00105	.00123	-.01410	-.00446	
#2	.00831	-.00051	-.00018	.00121	.00464	.00973	
#3	.01477	-.00001	-.00141	.00130	.00934	-.00833	
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	.00000	.00000	.00000	.00000	.00000	.00000	
Range	.10000	.05000	.02000	.01000	.10000	.10000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22580	--	--	--	--	--	--
SDev	430.2058	--	--	--	--	--	--
%RSD	1.905251	--	--	--	--	--	--
#1	22713	--	--	--	--	--	--
#2	22928	--	--	--	--	--	--
#3	22099	--	--	--	--	--	--

Method: 95GI598 Sample Name: 9504G211-015A 1 Operator: BH
Run Time: 04/14/95 15:10:18
Comment:
Mode: CONC Corr. Factor: 1

120 ppb Sb Post Spike
gw 4/24/95

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	11.997	.11849	.44685	.01092	.21969	.00869	286.98
SDev	.028	.00288	.00001	.00018	.00359	.00218	.84
%RSD	.23663	2.4350	.00174	1.6890	1.6340	25.118	.29288
#1	11.984	.11586	.44685	.01112	.21785	.01061	286.07
#2	12.029	.12157	.44685	.01085	.22383	.00632	287.73
#3	11.977	.11803	.44684	.01077	.21740	.00915	287.15
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	600.00	20.000	150.00	50.000	100.00	50.000	600.00
Low	-.20000	-.06000	-.20000	-.00500	-.05000	-.00500	-5.0000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.05489	.11480	.08725	35.673	.12122	153.58	1.2375
SDev	.00073	.00125	.00104	.080	.01091	.15	.0025
%RSD	1.3242	1.0914	1.1922	.22456	9.0006	.10015	.20175

#1	.05434	.11362	.08795	35.589	.11023	153.46	1.2349
#2	.05571	.11611	.08606	35.749	.12139	153.75	1.2398
#3	.05461	.11468	.08776	35.681	.13204	153.54	1.2377
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	100.00	500.00	100.00	600.00	25.000
Low	-.01000	-.05000	-.02500	-.10000	-.05000	-5.0000	-.01500
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	T13775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.20074	.26881	3.2855	.01567	2.7572	.30402	.43245
SDev	.00610	.00140	.0365	.00160	.0129	.00045	.02618
%RSD	3.0382	.52188	1.1097	10.231	.46762	.14877	6.0539
#1	.19621	.27031	3.2465	.01394	2.7717	.30440	.45545
#2	.19832	.26856	3.3187	.01595	2.7527	.30352	.40396
#3	.20767	.26754	3.2913	.01711	2.7471	.30412	.43794
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	100.00	100.00	600.00	5.0000	600.00	100.00	200.00
Low	-.10000	-.04000	-5.0000	-.01000	-5.0000	-.10000	-.50000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	.20645	.15502	.13668	1.3089	.19249	.25925	
SDev	.00115	.00156	.00291	.0025	.01206	.02370	
%RSD	.55677	1.0043	2.1315	.18944	6.2641	9.1430	
#1	.20610	.15372	.13651	1.3064	.18218	.23576	
#2	.20774	.15459	.13968	1.3114	.20575	.25883	
#3	.20552	.15675	.13386	1.3090	.18956	.28316	
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	
High	100.00	100.00	100.00	100.00	100.00	100.00	
Low	-.10000	-.05000	-.02000	-.02000	-.10000	-.10000	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22168	--	--	--	--	--	--
SDev	87.78572	--	--	--	--	--	--
%RSD	.3960080	--	--	--	--	--	--
#1	22193	--	--	--	--	--	--
#2	22070	--	--	--	--	--	--
#3	22240	--	--	--	--	--	--

Method: 95GI598 Sample Name: BA ~~686~~ LRS.1 Operator: BH
Run Time: 04/14/95 15:13:11
Comment:
Mode: CONC Corr. Factor: 1 101.8%

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158

Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22200	--	--	--	--	--	--
SDev	67.84541	--	--	--	--	--	--
%RSD	.3056100	--	--	--	--	--	--
#1	22277	--	--	--	--	--	--
#2	22149	--	--	--	--	--	--
#3	22174	--	--	--	--	--	--

Method: 95GI598 Sample Name: CRI Operator: BH
Run Time: 04/14/95 15:16:05
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.39277	.12025	.42737	Q.01339	Q.28355	.00974	2.1940
SDev	.01288	.01171	.00279	.00061	.01641	.00046	.0325
%RSD	3.2802	9.7415	.65280	4.5779	5.7885	4.7610	1.4791
#1	.40252	.13354	.43055	Q.01408	Q.30052	.00973	2.2251
#2	.39762	.11574	.42618	Q.01317	Q.28237	.01020	2.1965
#3	.37816	.11146	.42537	Q.01291	Q.26776	.00928	2.1604
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Fail	QC Pass	QC Pass
Value	.40000	.12000	.40000	.01000	.20000	.01000	2.0000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.01785	.10679	Q.06146	.21245	.09451	2.1353	.03116
SDev	.00203	.00147	.00081	.00360	.01193	.0312	.00047
%RSD	11.388	1.3777	1.3250	1.6964	12.620	1.4605	1.5040
#1	.02018	.10836	Q.06096	.21534	.09276	2.1679	.03148
#2	.01641	.10655	Q.06240	.21360	.10722	2.1321	.03138
#3	.01696	.10545	Q.06102	.20841	.08356	2.1058	.03062
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	.02000	.10000	.05000	.20000	.10000	2.0000	.03000
Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.20924	.08536	2.0078	.01906	2.1172	.21505	Q.30219
SDev	.00169	.00526	.0652	.00028	.0154	.00126	.03069
%RSD	.81016	6.1586	3.2486	1.4424	.72699	.58589	10.156
#1	.20728	.08813	2.0399	.01885	2.1309	.21647	.32030
#2	.21022	.08866	2.0507	.01897	2.1005	.21461	Q.26675
#3	.21022	.07930	1.9327	.01937	2.1203	.21406	Q.31951
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	.20000	.08000	2.0000	.02000	2.0000	.20000	.40000

Range	20.000	20.000	20.000	20.000	20.000	20.000	20.000
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	.19659	.10633	.04139	.20969	.20340	.20774	
SDev	.01273	.00130	.00053	.00068	.00493	.01509	
%RSD	6.4763	1.2254	1.2728	.32565	2.4225	7.2647	
#1	.21083	.10745	.04099	.20921	.20885	.19683	
#2	.19262	.10664	.04120	.21047	.20207	.22496	
#3	.18631	.10490	.04199	.20940	.19927	.20142	
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	.20000	.10000	.04000	.20000	.20000	.20000	
Range	20.000	20.000	20.000	20.000	20.000	20.000	
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22907	--	--	--	--	--	--
SDev	270.8179	--	--	--	--	--	--
%RSD	1.182232	--	--	--	--	--	--
#1	22807	--	--	--	--	--	--
#2	22701	--	--	--	--	--	--
#3	23214	--	--	--	--	--	--

Method: 95GI598 Sample Name: ISA Operator: BH
Run Time: 04/14/95 15:18:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	504.53	.00233	.00458	.00053	.02981	.00548	500.99
SDev	.69	.01766	.00073	.00038	.00274	.00378	2.28
%RSD	.13737	758.71	15.981	71.368	9.2059	68.930	.45471
#1	504.01	.01040	.00495	.00096	.03155	.00982	498.71
#2	505.31	-.01793	.00374	.00032	.03122	.00357	501.00
#3	504.26	.01451	.00506	.00030	.02664	.00303	503.26
Errors	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value	500.00						500.00
Range	20.000						20.000
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00236	-.00147	.00890	188.72	.00542	513.88	-.00141
SDev	.00304	.00129	.00072	.48	.00956	1.01	.00064
%RSD	128.71	87.959	8.0434	.25602	176.32	.19713	45.000
#1	.00040	-.00164	.00808	188.18	.00949	512.78	-.00215
#2	.00082	-.00267	.00923	188.86	-.00550	514.78	-.00106
#3	.00586	-.00010	.00939	189.11	.01227	514.08	-.00103

Errors	NOCHECK	NOCHECK	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK
Value				200.00		500.00	
Range				20.000		20.000	

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.01489	-.01058	-.03734	-.00874	.02131	.00793	.15202
SDev	.00677	.00290	.09213	.00100	.02848	.00009	.06625
%RSD	45.468	27.424	246.72	11.451	133.67	1.0961	43.577
#1	-.02160	-.01365	-.09884	-.00843	-.00054	.00788	.22811
#2	-.00806	-.01021	-.08176	-.00986	.01094	.00788	.12080
#3	-.01502	-.00788	.06858	-.00793	.05352	.00803	.10715

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value							
Range							

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00010	.00177	-.02300	.01162	-.09431	.13743
SDev	.01328	.00150	.00109	.00088	.02593	.02988
%RSD	13722.	84.345	4.7340	7.5434	27.494	21.742
#1	.00107	.00178	-.02355	.01082	-.11662	.15129
#2	.01286	.00027	-.02371	.01148	-.06586	.15787
#3	-.01364	.00326	-.02175	.01255	-.10045	.10314

Errors	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value						
Range						

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22635	--	--	--	--	--	--
SDev	226.6547	--	--	--	--	--	--
%RSD	1.001361	--	--	--	--	--	--
#1	22770	--	--	--	--	--	--
#2	22761	--	--	--	--	--	--
#3	22373	--	--	--	--	--	--

Method: 95GI598 Sample Name: ISB Operator: BH
Run Time: 04/14/95 15:21:52
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	508.26	-.00640	.49594	.48474	.01845	.98424	498.64
SDev	1.06	.01076	.00178	.00081	.00219	.01347	1.07
%RSD	.20937	168.28	.35909	.16621	11.897	1.3683	.21440

#1	507.44	-.01354	.49481	.48408	.01739	.99771	497.55
#2	509.46	.00598	.49799	.48563	.01699	.97077	499.69
#3	507.89	-.01163	.49502	.48450	.02097	.98425	498.67
Errors	QC Pass	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass
Value	500.00		.50000	.50000		1.0000	500.00
Range	100.00		.10000	.10000		.20000	100.00
Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.47206	.47297	.51520	188.51	.94435	515.81	.46990
SDev	.00481	.00180	.00104	.33	.00832	1.33	.00076
%RSD	1.0195	.38113	.20125	.17537	.88093	.25798	.16269
#1	.46656	.47149	.51609	188.17	.94105	514.48	.46945
#2	.47408	.47244	.51544	188.83	.93819	517.14	.47078
#3	.47553	.47498	.51406	188.54	.95381	515.81	.46946
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.50000	.50000	.50000	200.00	1.0000	500.00	.50000
Range	.10000	.10000	.10000	40.000	.20000	100.00	.10000
Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	T13775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.01511	.93463	-.08672	.99832	-.00724	.00662	.12062
SDev	.00497	.00254	.01554	.00412	.00908	.00023	.09374
%RSD	32.928	.27179	17.922	.41250	125.41	3.5228	77.715
#1	-.01970	.93179	-.09538	.99659	-.01766	.00675	.16916
#2	-.00982	.93669	-.09599	.99535	-.00309	.00635	.18014
#3	-.01580	.93542	-.06877	1.0030	-.00098	.00677	.01256
Errors	NOCHECK	QC Pass	NOCHECK	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value		1.0000		1.0000			
Range		.20000		.20000			
Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960	
Units	PPM	PPM	PPM	PPM	PPM	PPM	
Avge	.00802	.49179	.94023	.01143	4.7458	4.8852	
SDev	.01207	.00160	.00562	.00015	.0427	.0305	
%RSD	150.57	.32529	.59740	1.3520	.89898	.62430	
#1	.01595	.49114	.94550	.01128	4.7018	4.8669	
#2	.01398	.49361	.93432	.01141	4.7487	4.9204	
#3	-.00587	.49062	.94087	.01159	4.7870	4.8682	
Errors	NOCHECK	QC Pass	QC Pass	NOCHECK	QC Pass	QC Pass	
Value		.50000	1.0000		5.0000	5.0000	
Range		.10000	.20000		1.0000	1.0000	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22321	--	--	--	--	--	--
SDev	72.11334	--	--	--	--	--	--

%RSD	.3230788	--	--	--	--	--	--
#1	22316	--	--	--	--	--	--
#2	22395	--	--	--	--	--	--
#3	22251	--	--	--	--	--	--

Method: 95GI598 Sample Name: CCV 3 Operator: BH
Run Time: 04/14/95 15:24:45
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	51.250	1.0359	10.175	2.5107	5.1608	2.5283	50.808
SDev	.029	.0158	.006	.0004	.0069	.0185	.039
%RSD	.05634	1.5240	.05672	.01475	.13411	.73261	.07690
#1	51.279	1.0505	10.181	2.5110	5.1569	2.5114	50.821
#2	51.252	1.0381	10.171	2.5107	5.1568	2.5254	50.764
#3	51.221	1.0191	10.171	2.5103	5.1688	2.5481	50.838
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	50.000	1.0000	10.000	2.5000	5.0000	2.5000	50.000
Range	5.0000	.10000	1.0000	.25000	.50000	.25000	5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	5.0724	5.1696	5.1270	25.621	5.0533	51.167	5.0432
SDev	.0076	.0060	.0100	.009	.0276	.051	.0042
%RSD	.14925	.11593	.19560	.03660	.54655	.09915	.08308
#1	5.0779	5.1681	5.1241	25.613	5.0276	51.193	5.0412
#2	5.0638	5.1646	5.1382	25.631	5.0500	51.109	5.0404
#3	5.0756	5.1762	5.1188	25.618	5.0825	51.200	5.0480
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	25.000	5.0000	50.000	5.0000
Range	.50000	.50000	.50000	2.5000	.50000	5.0000	.50000

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	5.1108	5.1213	50.328	1.0167	49.725	5.1170	10.080
SDev	.0127	.0070	.120	.0029	.194	.0039	.052
%RSD	.24876	.13577	.23908	.28641	.39044	.07648	.51747
#1	5.1005	5.1201	50.347	1.0135	49.936	5.1201	10.042
#2	5.1070	5.1151	50.438	1.0177	49.686	5.1126	10.140
#3	5.1250	5.1288	50.199	1.0190	49.553	5.1184	10.059
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	50.000	1.0000	50.000	5.0000	10.000
Range	.50000	.50000	5.0000	.10000	5.0000	.50000	1.0000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	5.1636	5.1666	5.0622	5.1443	5.0390	5.0093

SDev	.0203	.0058	.0085	.0034	.0359	.0444
%RSD	.39396	.11156	.16821	.06542	.71271	.88713
#1	5.1543	5.1605	5.0524	5.1481	5.0690	5.0284
#2	5.1870	5.1720	5.0664	5.1425	4.9992	4.9585
#3	5.1497	5.1673	5.0679	5.1421	5.0488	5.0409
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	5.0000	5.0000	5.0000	5.0000	5.0000	5.0000
Range	.50000	.50000	.50000	.50000	.50000	.50000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22883	--	--	--	--	--	--
SDev	41.00407	--	--	--	--	--	--
%RSD	.1791927	--	--	--	--	--	--
#1	22860	--	--	--	--	--	--
#2	22930	--	--	--	--	--	--
#3	22858	--	--	--	--	--	--

Method: 95GI598 Sample Name: CCB 3 Operator: BH
Run Time: 04/14/95 15:27:38
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	Sb2068	Ba4934	Be3130	B-2496	Cd2288	Ca3158
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.01431	-.01032	.00090	.00054	.01333	.00051	.02080
SDev	.00466	.00171	.00092	.00018	.00333	.00282	.00291
%RSD	32.591	16.543	102.42	34.162	24.972	553.52	13.966
#1	.01140	-.00843	.00070	.00064	.00964	-.00274	.02414
#2	.01185	-.01175	.00010	.00064	.01427	.00230	.01883
#3	.01969	-.01079	.00190	.00033	.01609	.00196	.01945
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.20000	.06000	.20000	.00500	.05000	.00500	5.0000

Elem	Cr2677	Co2286	Cu3247	Fe2599	Pb2203	Mg2790	Mn2576
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	-.00323	-.00025	-.00000	.01017	-.00338	-.01846	.00053
SDev	.00210	.00015	.00000	.00119	.01146	.00735	.00016
%RSD	65.023	60.034	31.504	11.723	339.54	39.800	30.491
#1	-.00110	-.00008	-.00000	.01153	-.01643	-.01204	.00044
#2	-.00530	-.00034	-.00000	.00929	.00128	-.02648	.00072
#3	-.00329	-.00034	-.00000	.00970	.00503	-.01687	.00043
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.01000	.05000	.02500	.10000	.05000	5.0000	.01500

Elem	Mo2020	Ni2316	K-7664	Ag3280	Na5895	Sr4215	Tl3775
Units	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.00578	-.00034	-.03177	.00025	-.01152	.00059	-.05413
SDev	.00147	.00255	.01700	.00060	.00490	.00020	.04727
%RSD	25.404	744.98	53.517	240.20	42.529	34.297	87.327
#1	.00737	-.00280	-.01508	.00011	-.00741	.00071	-.00313
#2	.00548	-.00052	-.03117	-.00027	-.01021	.00036	-.09647
#3	.00448	.00229	-.04907	.00092	-.01694	.00071	-.06278
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.04000	5.0000	.01000	5.0000	.10000	.50000

Elem	Sn1899	V-2924	Zn2138	Ti3349	As1936	Se1960
Units	PPM	PPM	PPM	PPM	PPM	PPM
Avge	.01023	-.00072	-.00320	.00074	.00969	.00450
SDev	.00619	.00043	.00054	.00016	.00714	.01643
%RSD	60.523	59.249	16.745	21.425	73.733	364.93
#1	.01581	-.00114	-.00289	.00065	.00144	.00825
#2	.01132	-.00029	-.00289	.00066	.01385	-.01348
#3	.00357	-.00072	-.00382	.00093	.01377	.01873
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.00000	.00000	.00000	.00000	.00000	.00000
Range	.10000	.05000	.02000	.01000	.10000	.10000

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	22862	--	--	--	--	--	--
SDev	51.43280	--	--	--	--	--	--
%RSD	.2249740	--	--	--	--	--	--
#1	22883	--	--	--	--	--	--
#2	22803	--	--	--	--	--	--
#3	22899	--	--	--	--	--	--

FURNACE AA RAW DATA

WESTON Analytics AA6.2 Report

Data File:AS0411B2 Date collected: 95/04/11 Time:
Method File: Date of Report: Time:
Analyst: DAK Remarks:

[As0411BB.PRN]

IPL = 1.7 ug/L *

run 1

257

	AS ppb				
AICV	23.69	MASTO	1		19:18
ICB	-1.40	MASTO	1		19:24
CRA	9.38	MASTO	1		19:29
ACCV 1	31.71	MASTO	1		19:35
CCB	-0.95	MASTO	1		19:41
9504G172-002	3.11	MASTO	1	95GF765	19:46
9504G172-002R	3.07	MASTO	1		19:57
9504G172-002S	37.34	MASTO	1		20:08
95GF767-MB1	-1.24	MASTO	1	95GF767	20:20
ACCV 2	34.65	MASTO	1	4/13/95	20:31
CCB	-1.21	MASTO	1		20:37
95GF767-LC1	34.02	MASTO	1		20:42
• 9504G211-001	-0.73	MASTO	1		20:53
9504G211-001R	-1.05	MASTO	1		21:05
9504G211-001S	37.76	MASTO	1		21:16
ACCV 3	34.69	MASTO	1		21:27
CCB	-0.84	MASTO	1		21:33
9504G211-002	-2.01	MASSO	1		21:38
9504G211-002R	-0.52	MASSO	1		21:49
9504G211-002S	38.49	MASSO	1		22:01
ACCV	37.69	MASTO	1		22:23
CCB 4	-0.91	MASTO	1		22:29
9504G211-004	-0.81 W	MASSO	1		22:34
9504G211-005	-0.31 W	MASTO	1		22:45
9504G211-006	-1.38 W	MASSO	1		22:57
9504G211-007	0.25 W	MASTO	1		23:08
ACCV 5	35.57	MASTO	1		23:19
CCB	-1.10	MASTO	1		23:25
9504G211-008	-0.36 W	MASSO	1		23:31
9504G211-009	2.77 W	MASTO	1		23:42
9504G211-010	-0.44	MASSO	1		23:53
95GF768-MB1	-0.92	MASTO	1	95GF768	00:05
ACCV 6	34.01	MASTO	1		00:16
CCB	-1.31	MASTO	1		00:22
95GF768-LC1	37.14	MASTO	1		00:27
9504G211-013	31.32	MASTO	1		01:02
ACCV 7	35.57	MASTO	1		01:13
CCB	-1.57	MASTO	1		01:19
9504G211-014	14.68	MASTO	1		01:24
9504G211-015S	57.38	MASTO	1		01:58
ACCV 8	36.09	MASTO	1		02:10
CCB	-1.42	MASTO	1		02:15
SOL.- MB1	-1.19	MASTO	1	NONE	02:21
SOL.- LC1	38.92	MASTO	1		02:32
SOL.- LC2	37.01	MASTO	1		02:43
ACCV	32.46	MASTO	1		03:06
CCB	-1.81	MASTO	1		03:11
• 9503G016-009R	15.34	MASTO	5		03:40
ACCV	32.14	MASTO	1		03:51
CCB	-1.73	MASTO	1		03:56

4/13/95

Debbie Kelly 4/12/95

4/12/95

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AA4 1st quarter 1.9
AA4 2nd quarter 1.7
AA6 1.7

report highest of the 3

OP No. 21-21G-1541
Rev. 01; Eff. Date 12/15/94

WESTON Environmental Metrics, Inc.
AA6 - PE4100 GFAA Sample Analysis Log

Page: 124

Element: As
Lamp: EDL Current: 350 Energy: 55

Filename: As0411A1
Prep Batch: A2

QC: a. Standard b. CLP

LOC			Pb	Se	As	Tl	Ag	Cd
71	STD 1 CRA	(ug/L)	3	5	10	10	5	0.5
72	STD 2	"	10	10	20	20	10	1.0
73	STD 3	"	30	20	30	30	20	2.0
74	STD 4	"	50	40	50	50	40	4.0
75	STD 5	"	70	50	70	70	50	5.0
76	ICV/CCV	"	35	25	35	35	25	2.5
77	ICB/CCB	"	0	0	0	0	0	0
78	Modifier							
79								
80	Diluent							
0	Spike Solution	"	40	20	40	40	10	2.0

	QC / Sample ID	Dil.	Rerun	MSA	Prep Batch
1	9503G894-003				(IDL)
2	-003				
3	95GF766-MB1				(Std H2O's)
4	-LC1				☆ = Sol.
5	-LC2				
6	9504G192-003				
7	-003R				
8	-003S				
9	☆ -004				
	☆ -004R				
11	☆ -004S				
12	9504G183-001S (2X)				(F762/Std)
13	-003 (40X)				
14	95GF765-MB1				(Std H2O's)
15	-LC1				
16	-LC2				
17	9504G170-001 (20X)				
18	9504G173-002				
19	-004				
20	9504G172-001				
21	-002				
22	-002R				
23	-002S				
24	95GF767-MB1				(CLP H2O's)
25	-LC1				☆ = Sol.
26	9504G211-001				
27	-001R				
28	-001S				
29	☆ -002				
30	☆ -002R				
31	☆ -002S				
32	-003				
33	☆ -004				
34	-005				
	☆ -006				

(A1)

(A2)

	QC / Sample ID	Dil.	Rerun	MSA	Prep Batch
36	9504G211-007				(F767)
37	☆ -008				
38	-009				
39	☆ -010				
40	95GF768-MB1				(CLP Soils)
41	-LC1				
42	9504G211-011				
43	-012				
44	-013				
45	-014				
46	-015				
47	-015R				
48	-015S				
49	Sol.-MB1				(none)
50	-LC1				
51	-LC2				
52	9503G016-009				(P.E 8.)
53	-009R				
54	-009 (5X)				
55	-009R (5X)				
56					
57					
58					
59					
60					
61					
62					
63					
64					
65					
66					
67					
68					
69					
70					

Analyst: Debbie Kelly Date: 4/11/95

Reviewer: Dan Date: 4/12/95

Element File: ASCLP080.GEL
Element: As
Analyst: DAK
Print Data: Main+Suppl.
Peak Storage: None
Remarks:
STANDARDS 1276-74-2
ICV,CCV'S 1276-74-3
MODIFIER-- PD(NO3)2 + MG(NO3)2
EDL SERIAL # 1481
ANALYSTS--DEBBIE KELLY

INSTRUMENT: 4100 ZL
Technique: HGA
Version: 7.30
Wavelength: 193.7 Peak
Slit: 2.00 Low
Signal Type: Zeeman AA
Signal Measurement: Peak Area
Read Time: 5.0
Read Delay: 0.0
BOC Time: 1
Sample Replicates: 2 if <= 70.00 ug/L, 2 if > 70.00 ug/L, else 2
Standard Replicates: 2
Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	S0		77	20	15	7	
Standard 1	S10	10.00	71	20	15	7	
Standard 2	S20	20.00	72	20	15	7	
Standard 3	S30	30.00	73	20	15	7	
Standard 4	S50	50.00	74	20	15	7	
Standard 5	S70	70.00	75	20	15	7	
Samples				20	15	7	

Diluent Location: 80
Modifier #1 Location: 78
Modifier #2 Location:
Calibration Units: ug/L
Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	140	1	15	250		Norm
2	230	15	25	250		Norm
3	300	1	15	250		Norm
4	1200	1	15	250		Norm
5	2000	0	5	0	*	Norm
6	2450	1	5	250		Norm
7	20	1	5	250		Norm

Injection Temp: 120
Pipette Speed: 100%
Extraction System: On

SEQUENCE:

Step	Action and Parameters
1	Pipet diluent + modifier 1 + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Completely Recalibrate
Locations: None

Conc. Above Calibration Action: Dilute & Reanalyze After All Reps
Alternate Sample Volumes (uL): 4
Run Alternate Volume Blanks: No

If %RSD > 20.0 and Concentration > 10.0 then Retry 1 times
Check %RSD on: Samples + Standards + QC Samples

Recovery Measurements:
10 uL of 40 ug/L Standard at Location 0 Gives 20.00 ug/L
Measure Recovery on Samples: 1-70
Add to QC Samples: No % Recovery Limits:

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As Sample
1	79	AICV	22.5	27.5	X			
2	77	ICB	-4.0	2.0	X			
3	71	CRA			X			X
4	76	ACCV	31.5	38.5	X	X	X	
5	77	CCB	-4.0	2.0	X	X	X	

Run Periodic QC Samples: Every 8
Out of Limit Action: Recalibrate and Rerun Samples

Matrix Check Calculations:
% Difference for Dupls: No Locations:
% Recovery for Spike: No Locations: Conc:

Element File: ASCLP080.GEL Element: As Wavelength: 193.7
Date: 04/11/95 Time: 14:04 Slit: 2.00 L
Data File: AS0411A2.DAT ID/Wt File: AS041101.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 56
Remark 1: STANDARDS 1276-74-2
Remark 2: ICV,CCV'S 1276-74-3
Remark 3: MODIFIER-- PD(NO3)2 + MG(NO3)2
Remark 4: EDL SERIAL # 1481
Remark 5: ANALYSTS--DEBBIE KELLY

Debbie Kelly

As ID: S0 Seq. No.: 00001 A/S Pos.: 77 Date: 04/11/95

Replicate 1 Time: 14:06
Peak Area (A-s): 0.001 Peak Height (A): 0.009
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -1.04

Replicate 2 Time: 14:09
Peak Area (A-s): 0.001 Peak Height (A): 0.009
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -1.07

Mean Conc (ug/L): -1.06 SD: 0.019 RSD(%): 1.77

Auto-zero performed.

As ID: S10 Seq. No.: 00002 A/S Pos.: 71 Date: 04/11/95

Replicate 1 Time: 14:12
Peak Area (A-s): 0.062 Peak Height (A): 0.167
Background Pk Area (A-s): -0.007 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.061
Concentration (ug/L): 11.65

Replicate 2 Time: 14:15
Peak Area (A-s): 0.059 Peak Height (A): 0.159
Background Pk Area (A-s): -0.000 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.057
Concentration (ug/L): 10.85

Mean Conc (ug/L): 11.25 SD: 0.560 RSD(%): 4.98

Standard number 1 applied. [10.00]
Correlation coefficient: 1.00000 Slope: 0.0059 Int: -0.000

As ID: S20 Seq. No.: 00003 A/S Pos.: 72 Date: 04/11/95

Replicate 1 Time: 14:18
Peak Area (A-s): 0.113 Peak Height (A): 0.287
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.112
Concentration (ug/L): 18.84

Peak Area (A-s): 0.170 Peak Height (A): 0.392
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.169
Concentration (ug/L): 31.60

Replicate 2 Time: 18:34
Peak Area (A-s): 0.174 Peak Height (A): 0.421
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.172
Concentration (ug/L): 32.26

Mean Conc (ug/L): 31.93 SD: 0.463 RSD(%): 1.45

QC sample is within range 31.5 - 38.5

As ID: CCB Seq. No.: 00051 A/S Pos.: 77 Date: 04/11/95

Replicate 1 Time: 18:37
Peak Area (A-s): 0.001 Peak Height (A): 0.008
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -1.00

Replicate 2 Time: 18:39
Peak Area (A-s): 0.089 Peak Height (A): 0.106
Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.088
Concentration (ug/L): 15.93

Mean Conc (ug/L): 7.47 SD: 11.968 RSD(%): 160.28

QC sample is out of range -4.0 - 2.0

JAK 4/12/95

As ID: S0 Seq. No.: 00052 A/S Pos.: 77 Date: 04/11/95

Replicate 1 Time: 18:42
Peak Area (A-s): 0.001 Peak Height (A): 0.009
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -1.07

Replicate 2 Time: 18:45
Peak Area (A-s): 0.002 Peak Height (A): 0.009
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.92

Mean Conc (ug/L): -1.00 SD: 0.103 RSD(%): 10.37

Auto-zero performed.

As ID: S10 Seq. No.: 00053 A/S Pos.: 71 Date: 04/11/95

Replicate 1 Time: 18:48
Peak Area (A-s): 0.054 Peak Height (A): 0.126
Background Pk Area (A-s): 0.009 Background Pk Height (A): 21

Blank Corrected Pk Area (A-s): 0.053
Concentration (ug/L): 9.16

Replicate 2 Time: 18:51
Peak Area (A-s): 0.059 Peak Height (A): 0.143
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.058
Concentration (ug/L): 10.22

Mean Conc (ug/L): 9.69 SD: 0.746 RSD(%): 7.70

Standard number 1 applied. [10.00]
Correlation coefficient: 1.00000 Slope: 0.0055 Int: 0.000

As ID: S20 Seq. No.: 00054 A/S Pos.: 72 Date: 04/11/95

Replicate 1 Time: 18:53
Peak Area (A-s): 0.107 Peak Height (A): 0.255
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.106
Concentration (ug/L): 19.06

Replicate 2 Time: 18:56
Peak Area (A-s): 0.110 Peak Height (A): 0.244
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.109
Concentration (ug/L): 19.69

Mean Conc (ug/L): 19.38 SD: 0.446 RSD(%): 2.30

Standard number 2 applied. [20.00]
Correlation coefficient: 0.99983 Slope: 0.0054 Int: 0.001

As ID: S30 Seq. No.: 00055 A/S Pos.: 73 Date: 04/11/95

Replicate 1 Time: 18:59
Peak Area (A-s): 0.160 Peak Height (A): 0.408
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.159
Concentration (ug/L): 29.57

Replicate 2 Time: 19:02
Peak Area (A-s): 0.165 Peak Height (A): 0.414
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.164
Concentration (ug/L): 30.50

Mean Conc (ug/L): 30.03 SD: 0.657 RSD(%): 2.19

Standard number 3 applied. [30.00]
Correlation coefficient: 0.99993 Slope: 0.0054 Int: 0.001

As ID: S50 Seq. No.: 00056 A/S Pos.: 74 Date: 04/11/95

Replicat 1 Time: 19:04
Peak Ar A-s): 0.254 Peak Height (A): 0.611

Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.253
Concentration (ug/L): 47.07

Replicate 2 Time: 19:07
Peak Area (A-s): 0.247 Peak Height (A): 0.592
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.246
Concentration (ug/L): 45.63

Mean Conc (ug/L): 46.35 SD: 1.019 RSD(%): 2.20

Standard number 4 applied. [50.00]
Correlation coefficient: 0.99857 Slope: 0.0050 Int: 0.005

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As ID: S70 Seq. No.: 00057 A/S Pos.: 75 Date: 04/11/95

Replicate 1 Time: 19:10
Peak Area (A-s): 0.351 Peak Height (A): 0.811
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.350
Concentration (ug/L): 69.00

Replicate 2 Time: 19:13
Peak Area (A-s): 0.360 Peak Height (A): 0.850
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): 0.359
Concentration (ug/L): 70.88

Mean Conc (ug/L): 69.94 SD: 1.329 RSD(%): 1.90

Standard number 5 applied. [70.00]
Correlation coefficient: 0.99938 Slope: 0.0050 Int: 0.005

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As ID: AICV Seq. No.: 00058 A/S Pos.: 79 Date: 04/11/95

Replicate 1 Time: 19:16
Peak Area (A-s): 0.123 Peak Height (A): 0.253
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.122
Concentration (ug/L): 23.45

Replicate 2 Time: 19:18
Peak Area (A-s): 0.126 Peak Height (A): 0.261
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.124
Concentration (ug/L): 23.93

Mean Conc (ug/L): 23.69 SD: 0.340 RSD(%): 1.44

QC sample is within range 22.5 - 27.5

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As ID: ICB Seq. No.: 00059 A/S Pos.: 77 Date: 04/11/95

Replicat- 1 Time: 19:21
Peak Ar- A-s): -0.003 Peak Height (A): 0.006
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Background Pk Area (A-s): -0.000 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -1.87

Replicate 2 Time: 19:24
Peak Area (A-s): 0.001 Peak Height (A): 0.008
Background Pk Area (A-s): 0.000 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.94

Mean Conc (ug/L): -1.40 SD: 0.658 RSD(%): 46.97

QC sample is within range -4.0 - 2.0

As ID: CRA Seq. No.: 00060 A/S Pos.: 71 Date: 04/11/95

Replicate 1 Time: 19:27
Peak Area (A-s): 0.054 Peak Height (A): 0.135
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.053
Concentration (ug/L): 9.68

Replicate 2 Time: 19:29
Peak Area (A-s): 0.051 Peak Height (A): 0.109
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.050
Concentration (ug/L): 9.09

Mean Conc (ug/L): 9.38 SD: 0.415 RSD(%): 4.42

QC sample is within range

As ID: ACCV Seq. No.: 00061 A/S Pos.: 76 Date: 04/11/95

Replicate 1 Time: 19:32
Peak Area (A-s): 0.166 Peak Height (A): 0.355
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.165
Concentration (ug/L): 32.08

Replicate 2 Time: 19:35
Peak Area (A-s): 0.163 Peak Height (A): 0.379
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.161
Concentration (ug/L): 31.34

Mean Conc (ug/L): 31.71 SD: 0.523 RSD(%): 1.65

QC sample is within range 31.5 - 38.5

As ID: CCB Seq. No.: 00062 A/S Pos.: 77 Date: 04/11/95

Replicate 1 Time: 19:38
Peak Area (A-s): 0.001 Peak Height (A): 0.009
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): -0.000

Concentration (ug/L): -1.04

Replicate 2 Time: 19:41
Peak Area (A-s): 0.002 Peak Height (A): 0.009
Background Pk Area (A-s): -0.000 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.86

Mean Conc (ug/L): -0.95 SD: 0.129 RSD(%): 13.65

QC sample is within range -4.0 - 2.0

As ID: 9504G172-002 Seq. No.: 00063 A/S Pos.: 21 Date: 04/11/95

Replicate 1 Time: 19:43
Peak Area (A-s): 0.020 Peak Height (A): 0.036
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.019
Concentration (ug/L): 2.76

Replicate 2 Time: 19:46
Peak Area (A-s): 0.023 Peak Height (A): 0.039
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.065
Blank Corrected Pk Area (A-s): 0.022
Concentration (ug/L): 3.45

Mean Conc (ug/L): 3.11 SD: 0.488 RSD(%): 15.70

As ID: 9504G172-002 Seq. No.: 00064 A/S Pos.: 21 Date: 04/11/95

Replicate 1 Time: 19:49
Peak Area (A-s): 0.120 Peak Height (A): 0.186
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.070
Blank Corrected Pk Area (A-s): 0.119
Concentration (ug/L): 22.81

Replicate 2 Time: 19:52
Peak Area (A-s): 0.120 Peak Height (A): 0.185
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.119
Concentration (ug/L): 22.79

Mean Conc (ug/L): 22.80 SD: 0.012 RSD(%): 0.05

Recovery is 98.5% ✓

As ID: 9504G172-002R Seq. No.: 00065 A/S Pos.: 22 Date: 04/11/95

Replicate 1 Time: 19:55
Peak Area (A-s): 0.021 Peak Height (A): 0.040
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): 0.020
Concentration (ug/L): 3.02

Replicate 2 Time: 19:57
Peak Area (A-s): 0.022 Peak Height (A): 0.038

Recovery is 94.0% ✓

As ID: 95GF767-MB1 Seq. No.: 00069 A/S Pos.: 24 Date: 04/11/95

Replicate 1 Time: 20:17
Peak Area (A-s): -0.001 Peak Height (A): 0.011
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.38

Replicate 2 Time: 20:20
Peak Area (A-s): 0.000 Peak Height (A): 0.010
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.10

Mean Conc (ug/L): -1.24 SD: 0.196 RSD(%): 15.83

As ID: 95GF767-MB1 Seq. No.: 00070 A/S Pos.: 24 Date: 04/11/95

Replicate 1 Time: 20:23
Peak Area (A-s): 0.110 Peak Height (A): 0.226
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.109
Concentration (ug/L): 20.81

Replicate 2 Time: 20:25
Peak Area (A-s): 0.112 Peak Height (A): 0.212
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.111
Concentration (ug/L): 21.24

Mean Conc (ug/L): 21.03 SD: 0.306 RSD(%): 1.45

Recovery is 111.3% 105.2%

As ID: ACCV 7 Seq. No.: 00071 A/S Pos.: 76 Date: 04/11/95

Replicate 1 Time: 20:28
Peak Area (A-s): 0.180 Peak Height (A): 0.378
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.179
Concentration (ug/L): 34.88

Replicate 2 Time: 20:31
Peak Area (A-s): 0.178 Peak Height (A): 0.408
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.177
Concentration (ug/L): 34.42

Mean Conc (ug/L): 34.65 SD: 0.327 RSD(%): 0.94 ✓

QC sample is within range 31.5 - 38.5

As ID: CCB Seq. No.: 00072 A/S Pos.: 77 Date: 04/11/95

Replicate 1 Time: 20:34
Peak Area (A-s): -0.000 Peak Height (A): 0.010
Background Pk Area (A-s): -0.010 Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.27

Replicate 2 Time: 20:37
Peak Area (A-s): 0.000 Peak Height (A): 0.009
Background Pk Area (A-s): -0.000 Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.16

Mean Conc (ug/L): -1.21 SD: 0.078 RSD(%): 6.46

QC sample is within range -4.0 - 2.0

As ID: 95GF767-LC1 Seq. No.: 00073 A/S Pos.: 25 Date: 04/11/95

Replicate 1 Time: 20:39
Peak Area (A-s): 0.174 Peak Height (A): 0.366
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.173
Concentration (ug/L): 33.72

Replicate 2 Time: 20:42
Peak Area (A-s): 0.177 Peak Height (A): 0.383
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.176
Concentration (ug/L): 34.33

Mean Conc (ug/L): 34.02 85.0% SD: 0.425 RSD(%): 1.25

As ID: 95GF767-LC1 Seq. No.: 00074 A/S Pos.: 25 Date: 04/11/95

Replicate 1 Time: 20:45
Peak Area (A-s): 0.282 Peak Height (A): 0.524
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.281
Concentration (ug/L): 55.30

Replicate 2 Time: 20:48
Peak Area (A-s): 0.281 Peak Height (A): 0.542
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.280
Concentration (ug/L): 55.04

Mean Conc (ug/L): 55.17 SD: 0.187 RSD(%): 0.34

Recovery is 105.7% ✓ JAK 4/12/95

As ID: 9504G211-001 Seq. No.: 00075 A/S Pos.: 26 Date: 04/11/95

Replicat 1 Time: 20:51

Peak Area (A-s): 0.004 Peak Height (A): 0.010
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.074
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): -0.45

Replicate 2 Time: 20:53
Peak Area (A-s): 0.001 Peak Height (A): 0.011
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.101
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -1.01

Mean Conc (ug/L): -0.73 SD: 0.398 RSD(%): 54.40

As ID: 9504G211-001 Seq. No.: 00076 A/S Pos.: 26 Date: 04/11/95

Replicate 1 Time: 20:56
Peak Area (A-s): 0.114 Peak Height (A): 0.253
Background Pk Area (A-s): 0.054 Background Pk Height (A): 0.079
Blank Corrected Pk Area (A-s): 0.113
Concentration (ug/L): 21.59

Replicate 2 Time: 20:59
Peak Area (A-s): 0.119 Peak Height (A): 0.255
Background Pk Area (A-s): 0.056 Background Pk Height (A): 0.076
Blank Corrected Pk Area (A-s): 0.118
Concentration (ug/L): 22.66

Mean Conc (ug/L): 22.13 SD: 0.756 RSD(%): 3.42

Recovery is 114.3% 110.6%

As ID: 9504G211-001R Seq. No.: 00077 A/S Pos.: 27 Date: 04/11/95

Replicate 1 Time: 21:02
Peak Area (A-s): 0.003 Peak Height (A): 0.010
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.074
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.65

Replicate 2 Time: 21:05
Peak Area (A-s): -0.001 Peak Height (A): 0.008
Background Pk Area (A-s): 0.058 Background Pk Height (A): 0.071
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.45

Mean Conc (ug/L): -1.05 SD: 0.566 RSD(%): 54.08

As ID: 9504G211-001R Seq. No.: 00078 A/S Pos.: 27 Date: 04/11/95

Replicate 1 Time: 21:07
Peak Area (A-s): 0.119 Peak Height (A): 0.243
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.085
Blank Corrected Pk Area (A-s): 0.118
Concentration (ug/L): 22.71

Replicat 2 Time: 21:10

Peak Area (A-s): 0.121 Peak Height (A): 0.261
Background Pk Area (A-s): 0.064 Background Pk Height (A): 0.075
Blank Corrected Pk Area (A-s): 0.120
Concentration (ug/L): 22.99

Mean Conc (ug/L): 22.85 114.2% SD: 0.198 RSD(%): 0.87

Recovery is 119.5%

As ID: 9504G211-001S Seq. No.: 00079 A/S Pos.: 28 Date: 04/11/95

Replicate 1 Time: 21:13
Peak Area (A-s): 0.195 Peak Height (A): 0.408
Background Pk Area (A-s): 0.062 Background Pk Height (A): 0.081
Blank Corrected Pk Area (A-s): 0.194
Concentration (ug/L): 37.93

Replicate 2 Time: 21:16
Peak Area (A-s): 0.194 Peak Height (A): 0.383
Background Pk Area (A-s): 0.060 Background Pk Height (A): 0.079
Blank Corrected Pk Area (A-s): 0.193
Concentration (ug/L): 37.58

Mean Conc (ug/L): 37.76 94.4% SD: 0.244 RSD(%): 0.65

As ID: 9504G211-001S Seq. No.: 00080 A/S Pos.: 28 Date: 04/11/95

Replicate 1 Time: 21:19
Peak Area (A-s): 0.300 Peak Height (A): 0.624
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.087
Blank Corrected Pk Area (A-s): 0.299
Concentration (ug/L): 58.81

Replicate 2 Time: 21:21
Peak Area (A-s): 0.300 Peak Height (A): 0.618
Background Pk Area (A-s): 0.063 Background Pk Height (A): 0.086
Blank Corrected Pk Area (A-s): 0.299
Concentration (ug/L): 58.96

Mean Conc (ug/L): 58.89 SD: 0.103 RSD(%): 0.17

Recovery is 105.7% ✓

As ID: ACCV 3 Seq. No.: 00081 A/S Pos.: 76 Date: 04/11/95

Replicate 1 Time: 21:24
Peak Area (A-s): 0.183 Peak Height (A): 0.423
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.182
Concentration (ug/L): 35.43

Replicate 2 Time: 21:27
Peak Area (A-s): 0.176 Peak Height (A): 0.395
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.174
Concentration (ug/L): 33.94

Mean Conc (ug/L): 34.69 SD: 1.050 RSD(%): 3.03

QC sample is within range 31.5 - 38.5

As ID: CCB 3 Seq. No.: 00082 A/S Pos.: 77 Date: 04/11/95

Replicate 1 Time: 21:30
Peak Area (A-s): 0.002 Peak Height (A): 0.009
Background Pk Area (A-s): -0.032 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.87

Replicate 2 Time: 21:33
Peak Area (A-s): 0.002 Peak Height (A): 0.007
Background Pk Area (A-s): -0.037 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.81

Mean Conc (ug/L): -0.84 SD: 0.037 RSD(%): 4.46

QC sample is within range -4.0 - 2.0

As ID: 9504G211-002 Seq. No.: 00083 A/S Pos.: 29 Date: 04/11/95

Replicate 1 Time: 21:35
Peak Area (A-s): -0.006 Peak Height (A): 0.007
Background Pk Area (A-s): 0.062 Background Pk Height (A): 0.076
Blank Corrected Pk Area (A-s): -0.008
Concentration (ug/L): -2.48

Replicate 2 Time: 21:38
Peak Area (A-s): -0.002 Peak Height (A): 0.008
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.093
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.54

Mean Conc (ug/L): -2.01 SD: 0.668 RSD(%): 33.28

As ID: 9504G211-002 Seq. No.: 00084 A/S Pos.: 29 Date: 04/11/95

Replicate 1 Time: 21:41
Peak Area (A-s): 0.107 Peak Height (A): 0.253
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.095
Blank Corrected Pk Area (A-s): 0.106
Concentration (ug/L): 20.30

Replicate 2 Time: 21:44
Peak Area (A-s): 0.120 Peak Height (A): 0.266
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.081
Blank Corrected Pk Area (A-s): 0.119
Concentration (ug/L): 22.80

Mean Conc (ug/L): 21.55 SD: 1.771 RSD(%): 8.22

Recovery = 117.8%

107.8%

As ID: 9504G211-002R Seq. No.: 00085 A/S Pos.: 30 Date: 04/11/95

Replicate 1 Time: 21:47
Peak Area (A-s): 0.003 Peak Height (A): 0.009
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.091
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.61

Replicate 2 Time: 21:49
Peak Area (A-s): 0.004 Peak Height (A): 0.011
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.070
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): -0.44

Mean Conc (ug/L): -0.52 SD: 0.120 RSD(%): 23.05

As ID: 9504G211-002R Seq. No.: 00086 A/S Pos.: 30 Date: 04/11/95

Replicate 1 Time: 21:52
Peak Area (A-s): 0.118 Peak Height (A): 0.258
Background Pk Area (A-s): 0.064 Background Pk Height (A): 0.080
Blank Corrected Pk Area (A-s): 0.117
Concentration (ug/L): 22.51

Replicate 2 Time: 21:55
Peak Area (A-s): 0.121 Peak Height (A): 0.251
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.084
Blank Corrected Pk Area (A-s): 0.120
Concentration (ug/L): 23.04

Mean Conc (ug/L): 22.77 113.8% SD: 0.374 RSD(%): 1.64

Recovery is 116.5%

As ID: 9504G211-002S Seq. No.: 00087 A/S Pos.: 31 Date: 04/11/95

Replicate 1 Time: 21:58
Peak Area (A-s): 0.198 Peak Height (A): 0.419
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.079
Blank Corrected Pk Area (A-s): 0.197
Concentration (ug/L): 38.40

Replicate 2 Time: 22:01
Peak Area (A-s): 0.199 Peak Height (A): 0.437
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.116
Blank Corrected Pk Area (A-s): 0.198
Concentration (ug/L): 38.59

Mean Conc (ug/L): 38.49 96.2% SD: 0.132 RSD(%): 0.34

As ID: 9504G211-002S Seq. No.: 00088 A/S Pos.: 31 Date: 04/11/95

Replicate 1 Time: 22:03
Peak Area (A-s): 0.309 Peak Height (A): 0.658
Background Pk Area (A-s): 0.070 Background Pk Height (A): 0.093

Blank Corrected Pk Area (A-s): 0.307
Concentration (ug/L): 60.58

Replicate 2 Time: 22:06
Peak Area (A-s): 0.309 Peak Height (A): 0.662
Background Pk Area (A-s): 0.065 Background Pk Height (A): 0.096
Blank Corrected Pk Area (A-s): 0.308
Concentration (ug/L): 60.65

Mean Conc (ug/L): 60.61 SD: 0.045 RSD(%): 0.07

Recovery is 110.6% ✓

As ID: 9504G211-003 Seq. No.: 00089 A/S Pos.: 32 Date: 04/11/95

Replicate 1 Time: 22:09
Peak Area (A-s): 0.096 Peak Height (A): 0.126
Background Pk Area (A-s): 0.558 Background Pk Height (A): 0.227
Blank Corrected Pk Area (A-s): 0.095
Concentration (ug/L): 18.06

Replicate 2 Time: 22:12
Peak Area (A-s): 0.100 Peak Height (A): 0.116
Background Pk Area (A-s): 0.536 Background Pk Height (A): 0.199
Blank Corrected Pk Area (A-s): 0.099
Concentration (ug/L): 18.76

Mean Conc (ug/L): 18.41 SD: 0.496 RSD(%): 2.69

As ID: 9504G211-003 Seq. No.: 00090 A/S Pos.: 32 Date: 04/11/95

Replicate 1 Time: 22:15
Peak Area (A-s): 0.223 Peak Height (A): 0.275
Background Pk Area (A-s): 0.592 Background Pk Height (A): 0.239
Blank Corrected Pk Area (A-s): 0.222
Concentration (ug/L): 43.51

Replicate 2 Time: 22:17
Peak Area (A-s): 0.218 Peak Height (A): 0.273
Background Pk Area (A-s): 0.623 Background Pk Height (A): 0.224
Blank Corrected Pk Area (A-s): 0.216
Concentration (ug/L): 42.38

Mean Conc (ug/L): 42.94 SD: 0.801 RSD(%): 1.87

Recovery is 122.7%

As ID: ACCV ✗ Seq. No.: 00091 A/S Pos.: 76 Date: 04/11/95

Replicate 1 Time: 22:20
Peak Area (A-s): 0.193 Peak Height (A): 0.393
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): 0.191
Concentration (ug/L): 37.37

Replicate 2 Time: 22:23

TMSA
4/12/95

Peak Area (A-s): 0.196 Peak Height (A): 0.446
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.195
Concentration (ug/L): 38.01

Mean Conc (ug/L): 37.69 SD: 0.453 RSD(%): 1.20

QC sample is within range 31.5 - 38.5

As ID: CCB Seq. No.: 00092 A/S Pos.: 77 Date: 04/11/95

Replicate 1 Time: 22:26
Peak Area (A-s): 0.000 Peak Height (A): 0.007
Background Pk Area (A-s): -0.019 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.13

Replicate 2 Time: 22:29
Peak Area (A-s): 0.003 Peak Height (A): 0.007
Background Pk Area (A-s): -0.031 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.68

Mean Conc (ug/L): -0.91 SD: 0.323 RSD(%): 35.63

QC sample is within range -4.0 - 2.0

As ID: 9504G211-004 Seq. No.: 00093 A/S Pos.: 33 Date: 04/11/95

Replicate 1 Time: 22:31
Peak Area (A-s): 0.000 Peak Height (A): 0.010
Background Pk Area (A-s): 0.070 Background Pk Height (A): 0.091
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.15

Replicate 2 Time: 22:34
Peak Area (A-s): 0.004 Peak Height (A): 0.010
Background Pk Area (A-s): 0.062 Background Pk Height (A): 0.072
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.48

Mean Conc (ug/L): -0.81 SD: 0.471 RSD(%): 57.94

As ID: 9504G211-004 Seq. No.: 00094 A/S Pos.: 33 Date: 04/11/95

Replicate 1 Time: 22:37
Peak Area (A-s): 0.128 Peak Height (A): 0.236
Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.081
Blank Corrected Pk Area (A-s): 0.127
Concentration (ug/L): 24.40

Replicate 2 Time: 22:40
Peak Area (A-s): 0.126 Peak Height (A): 0.237
Background Pk Area (A-s): 0.066 Background Pk Height (A): 0.075
Blank Corrected Pk Area (A-s): 0.125
Concentration (ug/L): 24.12

Mean Conc (ug/L): 24.26 SD: 0.195 RSD(%): 0.81

Recovery is 125.4% 121.3%

As ID: 9504G211-005 Seq. No.: 00095 A/S Pos.: 34 Date: 04/11/95

Replicate 1 Time: 22:43
Peak Area (A-s): 0.004 Peak Height (A): 0.013
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.104
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): -0.36

Replicate 2 Time: 22:45
Peak Area (A-s): 0.005 Peak Height (A): 0.012
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.076
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): -0.27

Mean Conc (ug/L): -0.31 "W" SD: 0.060 RSD(%): 19.23

As ID: 9504G211-005 Seq. No.: 00096 A/S Pos.: 34 Date: 04/11/95

Replicate 1 Time: 22:48
Peak Area (A-s): 0.133 Peak Height (A): 0.272
Background Pk Area (A-s): 0.087 Background Pk Height (A): 0.096
Blank Corrected Pk Area (A-s): 0.131
Concentration (ug/L): 25.34

Replicate 2 Time: 22:51
Peak Area (A-s): 0.125 Peak Height (A): 0.264
Background Pk Area (A-s): 0.086 Background Pk Height (A): 0.090
Blank Corrected Pk Area (A-s): 0.124
Concentration (ug/L): 23.82

Mean Conc (ug/L): 24.58 SD: 1.073 RSD(%): 4.36

Recovery is 124.5% 122.9%

As ID: 9504G211-006 Seq. No.: 00097 A/S Pos.: 35 Date: 04/11/95

Replicate 1 Time: 22:54
Peak Area (A-s): -0.001 Peak Height (A): 0.007
Background Pk Area (A-s): 0.073 Background Pk Height (A): 0.080
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.42

Replicate 2 Time: 22:57
Peak Area (A-s): -0.001 Peak Height (A): 0.008
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.081
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.34

Mean Conc (ug/L): -1.38 SD: 0.052 RSD(%): 3.73

"W"

As ID: 9504G211-006 Seq. No.: 00098 A/S Pos.: 35 Date: 04/11/95

Replicate 1 Time: 23:00
Peak Area (A-s): 0.121 Peak Height (A): 0.244
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.073
Blank Corrected Pk Area (A-s): 0.120
Concentration (ug/L): 23.11

Replicate 2 Time: 23:03
Peak Area (A-s): 0.127 Peak Height (A): 0.252
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.073
Blank Corrected Pk Area (A-s): 0.126
Concentration (ug/L): 24.19

Mean Conc (ug/L): 23.65 SD: 0.767 RSD(%): 3.25

Recovery is 125.1% 118.2%

As ID: 9504G211-007 Seq. No.: 00099 A/S Pos.: 36 Date: 04/11/95

Replicate 1 Time: 23:05
Peak Area (A-s): 0.011 Peak Height (A): 0.022
Background Pk Area (A-s): 0.065 Background Pk Height (A): 0.078
Blank Corrected Pk Area (A-s): 0.010
Concentration (ug/L): 0.98

Replicate 2 Time: 23:08
Peak Area (A-s): 0.004 Peak Height (A): 0.020
Background Pk Area (A-s): 0.069 Background Pk Height (A): 0.081
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.48

Mean Conc (ug/L): 0.25 W SD: 1.032 RSD(%): 409.08

As ID: 9504G211-007 Seq. No.: 00100 A/S Pos.: 36 Date: 04/11/95

Replicate 1 Time: 23:11
Peak Area (A-s): 0.132 Peak Height (A): 0.269
Background Pk Area (A-s): 0.066 Background Pk Height (A): 0.094
Blank Corrected Pk Area (A-s): 0.130
Concentration (ug/L): 25.13

Replicate 2 Time: 23:14
Peak Area (A-s): 0.132 Peak Height (A): 0.258
Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.088
Blank Corrected Pk Area (A-s): 0.131
Concentration (ug/L): 25.32

Mean Conc (ug/L): 25.22 SD: 0.133 RSD(%): 0.53

Recovery is 124.9% 126.1%

As ID: ACCV 5 Seq. No.: 00101 A/S Pos.: 76 Date: 04/11/95

Replicat 1 Time: 23:17

Peak Area (A-s): 0.186 Peak Height (A): 0.391
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.185
Concentration (ug/L): 36.03

Replicate 2 Time: 23:19
Peak Area (A-s): 0.181 Peak Height (A): 0.379
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.180
Concentration (ug/L): 35.11

Mean Conc (ug/L): 35.57 SD: 0.649 RSD(%): 1.83

QC sample is within range 31.5 - 38.5

As ID: CCB Seq. No.: 00102 A/S Pos.: 77 Date: 04/11/95

Replicate 1 Time: 23:22
Peak Area (A-s): 0.001 Peak Height (A): 0.008
Background Pk Area (A-s): -0.023 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -1.04

Replicate 2 Time: 23:25
Peak Area (A-s): 0.000 Peak Height (A): 0.008
Background Pk Area (A-s): -0.010 Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.16

Mean Conc (ug/L): -1.10 SD: 0.085 RSD(%): 7.73

QC sample is within range -4.0 - 2.0

As ID: 9504G211-008 Seq. No.: 00103 A/S Pos.: 37 Date: 04/11/95

Replicate 1 Time: 23:28
Peak Area (A-s): 0.002 Peak Height (A): 0.008
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.75

Replicate 2 Time: 23:31
Peak Area (A-s): 0.006 Peak Height (A): 0.010
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 0.04

Mean Conc (ug/L): -0.36 SD: 0.561 RSD(%): 156.99

As ID: 9504G211-008 Seq. No.: 00104 A/S Pos.: 37 Date: 04/11/95

Replicate 1 Time: 23:34
Peak Area (A-s): 0.120 Peak Height (A): 0.232
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.119
Concentration (ug/L): 22.86

Replicate 2 Time: 23:36
Peak Area (A-s): 0.125 Peak Height (A): 0.243
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.124
Concentration (ug/L): 23.88

Mean Conc (ug/L): 23.37 116.8% SD: 0.723 RSD(%): 3.09

Recovery is 118.6%

As ID: 9504G211-009 Seq. No.: 00105 A/S Pos.: 38 Date: 04/11/95

Replicate 1 Time: 23:39
Peak Area (A-s): 0.018 Peak Height (A): 0.035
Background Pk Area (A-s): 0.297 Background Pk Height (A): 0.123
Blank Corrected Pk Area (A-s): 0.017
Concentration (ug/L): 2.50

Replicate 2 Time: 23:42
Peak Area (A-s): 0.021 Peak Height (A): 0.037
Background Pk Area (A-s): 0.328 Background Pk Height (A): 0.201
Blank Corrected Pk Area (A-s): 0.020
Concentration (ug/L): 3.03

Mean Conc (ug/L): 2.77 "W" SD: 0.379 RSD(%): 13.69

As ID: 9504G211-009 Seq. No.: 00106 A/S Pos.: 38 Date: 04/11/95

Replicate 1 Time: 23:45
Peak Area (A-s): 0.148 Peak Height (A): 0.237
Background Pk Area (A-s): 0.329 Background Pk Height (A): 0.165
Blank Corrected Pk Area (A-s): 0.146
Concentration (ug/L): 28.36

Replicate 2 Time: 23:48
Peak Area (A-s): 0.140 Peak Height (A): 0.242
Background Pk Area (A-s): 0.336 Background Pk Height (A): 0.147
Blank Corrected Pk Area (A-s): 0.138
Concentration (ug/L): 26.74

Mean Conc (ug/L): 27.55 SD: 1.142 RSD(%): 4.15

Recovery is 123.9% ✓

As ID: 9504G211-010 Seq. No.: 00107 A/S Pos.: 39 Date: 04/11/95

Replicate 1 Time: 23:51
Peak Area (A-s): 0.005 Peak Height (A): 0.013
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.085
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): -0.24

Replicate 2 Time: 23:53
Peak Area (A-s): 0.003 Peak Height (A): 0.007
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.081
Blank Corrected Pk Area (A-s): 0.002

Concentration (ug/L): -0.63

Mean Conc (ug/L): -0.44 SD: 0.279 RSD(%): 63.88

As ID: 9504G211-010 Seq. No.: 00108 A/S Pos.: 39 Date: 04/11/95

Replicate 1 Time: 23:56
Peak Area (A-s): 0.118 Peak Height (A): 0.267
Background Pk Area (A-s): 0.064 Background Pk Height (A): 0.074
Blank Corrected Pk Area (A-s): 0.117
Concentration (ug/L): 22.41

Replicate 2 Time: 23:59
Peak Area (A-s): 0.124 Peak Height (A): 0.264
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.081
Blank Corrected Pk Area (A-s): 0.122
Concentration (ug/L): 23.54

Mean Conc (ug/L): 22.97 SD: 0.798 RSD(%): 3.47

Recovery is 117.0% 114.8%

As ID: 95GF768-MB1 Seq. No.: 00109 A/S Pos.: 40 Date: 04/11/95

Replicate 1 Time: 00:02
Peak Area (A-s): 0.001 Peak Height (A): 0.008
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.98

Replicate 2 Time: 00:05
Peak Area (A-s): 0.002 Peak Height (A): 0.011
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.86

Mean Conc (ug/L): -0.92 SD: 0.084 RSD(%): 9.15

As ID: 95GF768-MB1 Seq. No.: 00110 A/S Pos.: 40 Date: 04/12/95

Replicate 1 Time: 00:08
Peak Area (A-s): 0.114 Peak Height (A): 0.239
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): 0.112
Concentration (ug/L): 21.53

Replicate 2 Time: 00:11
Peak Area (A-s): 0.108 Peak Height (A): 0.230
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.107
Concentration (ug/L): 20.51

Mean Conc (ug/L): 21.02 SD: 0.721 RSD(%): 3.43

Recovery is 109.7% 105.1%

As ID: ACCV Seq. No.: 00111 A/S Pos.: 76 Date: 04/12/95

Replicate 1 Time: 00:13
Peak Area (A-s): 0.177 Peak Height (A): 0.300
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.175
Concentration (ug/L): 34.15

Replicate 2 Time: 00:16
Peak Area (A-s): 0.175 Peak Height (A): 0.316
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.174
Concentration (ug/L): 33.87

Mean Conc (ug/L): 34.01 SD: 0.200 RSD(%): 0.59

QC sample is within range 31.5 - 38.5

As ID: CCB Seq. No.: 00112 A/S Pos.: 77 Date: 04/12/95

Replicate 1 Time: 00:19
Peak Area (A-s): 0.000 Peak Height (A): 0.007
Background Pk Area (A-s): -0.008 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.11

Replicate 2 Time: 00:22
Peak Area (A-s): -0.002 Peak Height (A): 0.009
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.51

Mean Conc (ug/L): -1.31 SD: 0.284 RSD(%): 21.74

QC sample is within range -4.0 - 2.0

As ID: 95GF768-LC1 Seq. No.: 00113 A/S Pos.: 41 Date: 04/12/95

Replicate 1 Time: 00:25
Peak Area (A-s): 0.196 Peak Height (A): 0.417
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.195
Concentration (ug/L): 38.01

Replicate 2 Time: 00:27
Peak Area (A-s): 0.187 Peak Height (A): 0.395
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.186
Concentration (ug/L): 36.28

Mean Conc (ug/L): 37.14 92.8% SD: 1.223 RSD(%): 3.29

As ID: 95GF768-LC1 Seq. No.: 00114 A/S Pos.: 41 Date: 04/12/95

Replicate 1 Time: 00:30

Peak Area (A-s): 0.281 Peak Height (A): 0.600
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.280
Concentration (ug/L): 55.08

Replicate 2 Time: 00:33
Peak Area (A-s): 0.286 Peak Height (A): 0.664
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.285
Concentration (ug/L): 56.07

Mean Conc (ug/L): 55.57 SD: 0.701 RSD(%): 1.26

Recovery is 92.2% ✓

As ID: 9504G211-011 Seq. No.: 00115 A/S Pos.: 42 Date: 04/12/95

Replicate 1 Time: 00:36
Peak Area (A-s): 0.124 Peak Height (A): 0.207
Background Pk Area (A-s): 0.779 Background Pk Height (A): 0.698
Blank Corrected Pk Area (A-s): 0.123
Concentration (ug/L): 23.67

Replicate 2 Time: 00:39
Peak Area (A-s): 0.125 Peak Height (A): 0.201
Background Pk Area (A-s): 0.759 Background Pk Height (A): 0.660
Blank Corrected Pk Area (A-s): 0.124
Concentration (ug/L): 23.83

Mean Conc (ug/L): 23.75 SD: 0.113 RSD(%): 0.48

As ID: 9504G211-011 Seq. No.: 00116 A/S Pos.: 42 Date: 04/12/95

Replicate 1 Time: 00:42
Peak Area (A-s): 0.239 Peak Height (A): 0.355
Background Pk Area (A-s): 0.652 Background Pk Height (A): 0.593
Blank Corrected Pk Area (A-s): 0.238
Concentration (ug/L): 46.64

Replicate 2 Time: 00:45
Peak Area (A-s): 0.242 Peak Height (A): 0.372
Background Pk Area (A-s): 0.735 Background Pk Height (A): 0.639
Blank Corrected Pk Area (A-s): 0.241
Concentration (ug/L): 47.21

Mean Conc (ug/L): 46.93 SD: 0.404 RSD(%): 0.86

Recovery is 115.9%

As ID: 9504G211-012 Seq. No.: 00117 A/S Pos.: 43 Date: 04/12/95

Replicate 1 Time: 00:47
Peak Area (A-s): 0.087 Peak Height (A): 0.106
Background Pk Area (A-s): 0.378 Background Pk Height (A): 0.222
Blank Corrected Pk Area (A-s): 0.086
Concentration (ug/L): 16.21

(2x) TMSA JAK 4/12/95

Replicate 2 Time: 00:50
Peak Area (A-s): 0.087 Peak Height (A): 0.108
Background Pk Area (A-s): 0.398 Background Pk Height (A): 0.234
Blank Corrected Pk Area (A-s): 0.086
Concentration (ug/L): 16.19

Mean Conc (ug/L): 16.20 SD: 0.011 RSD(%): 0.07

As ID: 9504G211-012 Seq. No.: 00118 A/S Pos.: 43 Date: 04/12/95

Replicate 1 Time: 00:53
Peak Area (A-s): 0.209 Peak Height (A): 0.269
Background Pk Area (A-s): 0.407 Background Pk Height (A): 0.227
Blank Corrected Pk Area (A-s): 0.208
Concentration (ug/L): 40.63

Replicate 2 Time: 00:56
Peak Area (A-s): 0.199 Peak Height (A): 0.252
Background Pk Area (A-s): 0.396 Background Pk Height (A): 0.213
Blank Corrected Pk Area (A-s): 0.198
Concentration (ug/L): 38.71

Mean Conc (ug/L): 39.67 SD: 1.359 RSD(%): 3.43

Recovery is 117.3%

As ID: 9504G211-013 Seq. No.: 00119 A/S Pos.: 44 Date: 04/12/95

Replicate 1 Time: 00:59
Peak Area (A-s): 0.162 Peak Height (A): 0.239
Background Pk Area (A-s): 0.695 Background Pk Height (A): 0.555
Blank Corrected Pk Area (A-s): 0.161
Concentration (ug/L): 31.28

Replicate 2 Time: 01:02
Peak Area (A-s): 0.163 Peak Height (A): 0.238
Background Pk Area (A-s): 0.717 Background Pk Height (A): 0.558
Blank Corrected Pk Area (A-s): 0.161
Concentration (ug/L): 31.36

Mean Conc (ug/L): 31.32 SD: 0.056 RSD(%): 0.18

As ID: 9504G211-013 Seq. No.: 00120 A/S Pos.: 44 Date: 04/12/95

Replicate 1 Time: 01:04
Peak Area (A-s): 0.267 Peak Height (A): 0.380
Background Pk Area (A-s): 0.650 Background Pk Height (A): 0.532
Blank Corrected Pk Area (A-s): 0.266
Concentration (ug/L): 52.20

Replicate 2 Time: 01:07
Peak Area (A-s): 0.262 Peak Height (A): 0.374
Background Pk Area (A-s): 0.592 Background Pk Height (A): 0.478
Blank Corrected Pk Area (A-s): 0.260
Concentration (ug/L): 51.18

Mean Conc (ug/L): 51.69 SD: 0.724 RSD(%): 1.40

Recovery is 101.8% ✓

As ID: ACCV Seq. No.: 00121 A/S Pos.: 76 Date: 04/12/95

Replicate 1 Time: 01:10
Peak Area (A-s): 0.185 Peak Height (A): 0.339
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.184
Concentration (ug/L): 35.79

Replicate 2 Time: 01:13
Peak Area (A-s): 0.183 Peak Height (A): 0.300
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.181
Concentration (ug/L): 35.34

Mean Conc (ug/L): 35.57 SD: 0.317 RSD(%): 0.89 ✓

QC sample is within range 31.5 - 38.5

As ID: CCB Seq. No.: 00122 A/S Pos.: 77 Date: 04/12/95

Replicate 1 Time: 01:16
Peak Area (A-s): -0.001 Peak Height (A): 0.009
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.48

Replicate 2 Time: 01:19
Peak Area (A-s): -0.002 Peak Height (A): 0.008
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.67

Mean Conc (ug/L): -1.57 SD: 0.133 RSD(%): 8.47

QC sample is within range -4.0 - 2.0

As ID: 9504G211-014 Seq. No.: 00123 A/S Pos.: 45 Date: 04/12/95

Replicate 1 Time: 01:21
Peak Area (A-s): 0.079 Peak Height (A): 0.127
Background Pk Area (A-s): 0.687 Background Pk Height (A): 0.644
Blank Corrected Pk Area (A-s): 0.078
Concentration (ug/L): 14.65

Replicate 2 Time: 01:24
Peak Area (A-s): 0.079 Peak Height (A): 0.130
Background Pk Area (A-s): 0.668 Background Pk Height (A): 0.618
Blank Corrected Pk Area (A-s): 0.078
Concentration (ug/L): 14.72

Mean Conc (ug/L): 14.68 SD: 0.046 RSD(%): 0.31

As ID: 9504G211-014 Seq. No.: 00124 A/S Pos.: 45 Date: 04/12/95

Replicate 1 Time: 01:27
Peak Area (A-s): 0.187 Peak Height (A): 0.306
Background Pk Area (A-s): 0.635 Background Pk Height (A): 0.603
Blank Corrected Pk Area (A-s): 0.186
Concentration (ug/L): 36.26

Replicate 2 Time: 01:30
Peak Area (A-s): 0.189 Peak Height (A): 0.305
Background Pk Area (A-s): 0.660 Background Pk Height (A): 0.644
Blank Corrected Pk Area (A-s): 0.188
Concentration (ug/L): 36.70

Mean Conc (ug/L): 36.48 SD: 0.307 RSD(%): 0.84

Recovery is 109.0% ✓

As ID: 9504G211-015 Seq. No.: 00125 A/S Pos.: 46 Date: 04/12/95

Replicate 1 Time: 01:33
Peak Area (A-s): 0.071 Peak Height (A): 0.093
Background Pk Area (A-s): 0.266 Background Pk Height (A): 0.132
Blank Corrected Pk Area (A-s): 0.070
Concentration (ug/L): 12.99

Replicate 2 Time: 01:36
Peak Area (A-s): 0.075 Peak Height (A): 0.099
Background Pk Area (A-s): 0.268 Background Pk Height (A): 0.130
Blank Corrected Pk Area (A-s): 0.074
Concentration (ug/L): 13.90

Mean Conc (ug/L): 13.45 SD: 0.649 RSD(%): 4.82

As ID: 9504G211-015 Seq. No.: 00126 A/S Pos.: 46 Date: 04/12/95

Replicate 1 Time: 01:39
Peak Area (A-s): 0.198 Peak Height (A): 0.262
Background Pk Area (A-s): 0.278 Background Pk Height (A): 0.129
Blank Corrected Pk Area (A-s): 0.197
Concentration (ug/L): 38.54

Replicate 2 Time: 01:41
Peak Area (A-s): 0.203 Peak Height (A): 0.272
Background Pk Area (A-s): 0.289 Background Pk Height (A): 0.149
Blank Corrected Pk Area (A-s): 0.202
Concentration (ug/L): 39.45

Mean Conc (ug/L): 39.00 SD: 0.641 RSD(%): 1.64

Recovery is 127.7%

As ID: 9504G211-015R Seq. No.: 00127 A/S Pos.: 47 Date: 04/12/95

Replicat 1 Time: 01:44

MSA JAK 4/18/95

Peak Area (A-s): 0.072 Peak Height (A): 0.090
Background Pk Area (A-s): 0.277 Background Pk Height (A): 0.115
Blank Corrected Pk Area (A-s): 0.071
Concentration (ug/L): 13.18

Replicate 2 Time: 01:47
Peak Area (A-s): 0.071 Peak Height (A): 0.097
Background Pk Area (A-s): 0.285 Background Pk Height (A): 0.120
Blank Corrected Pk Area (A-s): 0.070
Concentration (ug/L): 13.03

Mean Conc (ug/L): 13.11 SD: 0.104 RSD(%): 0.79

As ID: 9504G211-015R Seq. No.: 00128 A/S Pos.: 47 Date: 04/12/95

Replicate 1 Time: 01:50
Peak Area (A-s): 0.200 Peak Height (A): 0.282
Background Pk Area (A-s): 0.298 Background Pk Height (A): 0.131
Blank Corrected Pk Area (A-s): 0.199
Concentration (ug/L): 38.80

Replicate 2 Time: 01:53
Peak Area (A-s): 0.190 Peak Height (A): 0.293
Background Pk Area (A-s): 0.283 Background Pk Height (A): 0.141
Blank Corrected Pk Area (A-s): 0.189
Concentration (ug/L): 36.85

Mean Conc (ug/L): 37.88 SD: 1.447 RSD(%): 3.82

Recovery is 123.8%

As ID: 9504G211-015S Seq. No.: 00129 A/S Pos.: 48 Date: 04/12/95

Replicate 1 Time: 01:56
Peak Area (A-s): 0.295 Peak Height (A): 0.440
Background Pk Area (A-s): 0.331 Background Pk Height (A): 0.181
Blank Corrected Pk Area (A-s): 0.293
Concentration (ug/L): 57.77

Replicate 2 Time: 01:58
Peak Area (A-s): 0.291 Peak Height (A): 0.432
Background Pk Area (A-s): 0.333 Background Pk Height (A): 0.177
Blank Corrected Pk Area (A-s): 0.289
Concentration (ug/L): 56.98

Mean Conc (ug/L): 57.38 SD: 0.559 RSD(%): 0.97

As ID: 9504G211-015S Seq. No.: 00130 A/S Pos.: 48 Date: 04/12/95

Sample abs. is greater than that of the largest standard.
Replicate 1 Time: 02:01
Peak Area (A-s): 0.408 Peak Height (A): 0.579
Background Pk Area (A-s): 0.348 Background Pk Height (A): 0.179
Blank Corrected Pk Area (A-s): 0.407
Concentration (ug/L): 80.53

Sample abs. is greater than that of the largest standard.
Replicate 2 Time: 02:04
Peak Area (A-s): 0.418 Peak Height (A): 0.598
Background Pk Area (A-s): 0.351 Background Pk Height (A): 0.182
Blank Corrected Pk Area (A-s): 0.417
Concentration (ug/L): 82.49

Sample abs. is greater than that of the largest standard.
Mean Conc (ug/L): 81.51 SD: 1.387 RSD(%): 1.70

Recovery is 120.7%

As ID: ACCV Seq. No.: 00131 A/S Pos.: 76 Date: 04/12/95

Replicate 1 Time: 02:07
Peak Area (A-s): 0.185 Peak Height (A): 0.257
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): 0.184
Concentration (ug/L): 35.93

Replicate 2 Time: 02:10
Peak Area (A-s): 0.187 Peak Height (A): 0.230
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): 0.186
Concentration (ug/L): 36.26

Mean Conc (ug/L): 36.09 SD: 0.228 RSD(%): 0.63

QC sample is within range 31.5 - 38.5

As ID: CCB Seq. No.: 00132 A/S Pos.: 77 Date: 04/12/95

Replicate 1 Time: 02:12
Peak Area (A-s): -0.002 Peak Height (A): 0.007
Background Pk Area (A-s): -0.019 Background Pk Height (A): 0.003
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.58

Replicate 2 Time: 02:15
Peak Area (A-s): -0.000 Peak Height (A): 0.008
Background Pk Area (A-s): -0.015 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.27

Mean Conc (ug/L): -1.42 SD: 0.222 RSD(%): 15.61

QC sample is within range -4.0 - 2.0

As ID: SOL.- MB1 Seq. No.: 00133 A/S Pos.: 49 Date: 04/12/95

Replicate 1 Time: 02:18
Peak Area (A-s): -0.004 Peak Height (A): 0.007
Background Pk Area (A-s): -0.017 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): -0.005
Concentration (ug/L): -1.99

(2)

IDL = 1.9 ug/L run 2

287

WESTON Analytics AA4.2 Report

Data File:AS041422 Date collected: 95/04/14 Time:
Method File: Date of Report: Time:
Analyst: PFK Remarks:

Paul F. Klecznyk
4/15/95

	AS ppb				
AICV	25.30	MASTO	1		16:54
ICB	0.79	MASTO	1		17:00
CRA	9.79	MASTO	1		17:06
ACCV 1	34.84	MASTO	1		17:12
CCB	-0.15	MASTO	1		17:17
9504G253-003R	3.52	MASTO	2x	95GF771	17:24
ACCV 2	33.77	MASTO	1		17:35
CCB	-0.45	MASTO	1		17:41
ACCV 3	34.08	MASTO	1		17:48
CCB	-0.05	MASTO	1		17:51
• 9504G211-003	23.10 S	MASTO	1	95GF767	17:54
9504G211-011	12.90 S	MASTO	2	95GF768	18:06
9504G211-015	14.30 S	MASTO	1		18:17
9504G211-015R	15.40 S	MASTO	1		18:29
ACCV 4	33.38	MASTO	1		18:41
CCB	0.65	MASTO	1		18:44
ACCV	34.49	MASTO	1		18:53
CCB	0.05	MASTO	1		18:59
95GF774-MB1	-0.20	MASTO	1	95GF774	19:05
95GF774-LC1	32.53	MASTO	1		19:16
95GF774-LC2	34.92	MASTO	1		19:28
• 9504G227-011	1.51	MASTO	1		19:40
ACCV	35.72	MASTO	1		19:52
CCB	0.48	MASTO	1		19:58
9504G227-011R	1.21	MASTO	1		20:04
9504G227-011S	38.54	MASTO	1		20:15
95GF773-MB1	-0.83	MASTO	1	95GF773	20:27
95GF773-LC1	36.94	MASTO	1		20:39
ACCV	36.15	MASTO	1		20:51
CCB	0.22	MASTO	1		20:57
95GF773-LC2	36.09	MASTO	1		21:03
ACCV	35.70	MASTO	1		21:5[illegible]
CCB	-0.14	MASTO	1		22:02
9504G227-004R	7.97	MASTO	25		22:24
9504G227-004S	7.95	MASTO	25		22:36
95GF777-MB1	-1.08	MASTO	1	95GF777	22:48
ACCV	32.86	MASTO	1		22:59
CCB	-1.11	MASTO	1		23:05
95GF777-LC1	36.01	MASTO	1		23:11
95GF777-LC2	36.57	MASTO	1		23:23
9504G231-001	10.39	MASTO	1		23:35
ACCV	33.79	MASTO	1		23:59
CCB	-0.16	MASTO	1		00:05
9504G231-001S	44.87	MASTO	1		00:11
9504G231-002	4.37	MASTO	1		00:22
9504G231-003	2.53	MASTO	1		00:34
9504G231-004	11.12	MASTO	1		00:46
ACCV	34.22	MASTO	1		00:58
CCB	-0.34	MASTO	1		01:04
9504G231-005	28.06	MASTO	1		01:09
9504G231-006	8.72	MASTO	1		01:21
9504G231-007	7.95	MASTO	1		01:33
9504G231-008	1.09	MASTO	1		01:45
ACCV	34.12	MASTO	1		01:56
CCB	-0.62	MASTO	1		02:02
9504G231-00[illegible]	[illegible]	MASTO	1		02:09

4/18/95

4/17/95

WESTON Environmental Metrics, Inc.
AA4 - PE5100PC GFAA Sample Analysis Log

OP No. 21-31G-
Rev. 01; Eff. Date 03/0

Element: As Lamp: EDL Current: 305 Filename: AS0414X2
Energy: 41

Prep Batch / Matrix: F774/F773/F767/F768/F771 QC: (a.) Standard (b.) CLP

Autosampler Location	QC / Sample ID	Dilution	Rerun	MSA	Comments
1	STD				
2	ICV/CCV				
3	ICB/CCB				
4	CRA				
5	STD				
6	9504G253-003(R) 3x				F771/STD/SOIL
7	9504G211-003 MSA				F767 / CLP / H2O
8	011 2X				F768 / CLP / SOIL
9	015				
10	(R) ↓				PPK 4/14/95
11	95GF774 - MB1				F774/CLP D.L.
12	- LC1				
13	- LC2				
14	9504G227 - 011				
15	- 011R				
16	- 015				
17	95GF773 MB1				F773 /CLP D.L.
18	- LC1				
19	- LC2				
20	9504G222 - 004	10x	✓		
21	- 004R (10x)		✓		
22	- 004S (10x)		✓		
23					
24					
25					
26					
27					
28					
29					
30	OFK	4/14/95			
31					
32					
33					
34					
35					
36					
37					
38					
39	ICV 25.0 ppb				
40	Blank H2O				

Analyst: [signature] Date: 4/14/95

Reviewer: [signature] Date: 4/17/95

Page: 19

cont on Page 20288

Element File: AS_CLP.GEL
Element: As Analyst: BPH/DAK
Print Data: Main+Suppl. Peak Storage: None
Remarks:
 Standards 1276-74-6
 ICV,CCV'S 1276-73-7
 MATRIX MODIFIER: Pd(NO3)2 & Mg(NO3)2
 EDL SERIAL #913,IDL= 1.9
 ANALYST-BRYAN HOST/PAUL KOLARCZYK

INSTRUMENT: 5100 Technique: HGA
Wavelength: 193.7 Peak Slit: 0.70 Low
Signal Type: Zeeman AA Signal Measurement: Peak Area
Read Time: 7.0 Read Delay: 0 BOC Time: 2
Sample Replicates: 2 if <= 70.0 ug/L, 2 if > 70.1 ug/L, else 2
Standard Replicates: 2 Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	S0.0		40	20	8	5	
Standard 1	S10.0	10.00	4	20	8	5	
Standard 2	S20.0	20.00	5	8	20	5	
Standard 3	S30.0	30.00	5	12	16	5	
Standard 4	S50.0	50.00	1	10	18	5	
Standard 5	S70.0	70.00	1	14	14	5	
Samples				20	8	5	

Diluent Location: 40
Modifier #1 Location: 0 Modifier #2 Location:
Calibration Units: ug/L Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	100	6	3	300		Alt
2	140	40	5	300		Norm
3	1200	30	10	300		Alt
4	20	1	10	300		Alt
5	2100	0	8	0	*	Alt
6	2500	1	5	300		Alt

Injection Temp: 60 Pipette Speed: 75%

SEQUENCE:

Step	Action and Parameters
1	Pipet diluent + modifier 1 + modifier 2 + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Completely Recalibrate
Locations: None

Conc. Above Calibration Action: Dilute & Reanalyze After All Reps
Alternate Sample Volumes (uL): 4
Run Alternate Volume Blanks: No

If %RSD > 20.0 and Concentration > 10 then Retry 1 times
Check %RSD on: Samples + Standards + QC Samples

Recovery Measurements:
8 uL of 50.0 ug/L Standard at Location 5 Gives 20.00 ug/L
Measure Recovery on Samples: 6-39
Add to QC Samples: No % Recovery Limits:

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Conc. Limits Upper	After Calib	Periodic Check	At End	Count As Sample
1	39	AICV	22.5	27.5	X			
2	3	ICB	-3.0	2.0	X			
3	4	CRA	5.0	15.0	X			X
4	2	ACCV	31.5	38.5	X	X	X	
5	3	CCB	-3.0	2.0	X	X	X	
6	4							

Run Periodic QC Samples: Every 8
Out of Limit Action: Recalibrate and Rerun Samples

Matrix Check Calculations:
% Difference for Dupls: No Locations:
% Recovery for Spike: No Locations: Conc:

Element File: ASMSA.GEL
Element: As Analyst: BPH/PFK
Print Data: Main+Suppl. Peak Storage: None
Remarks:
Standards 1276-74-6
ICV,CCV'S 1276-73-7
4 ul of Pd & Mg matrix modifier
LAMP SERIAL #225,AS EDL,IDL= 1.9
ANALYST-BRYAN HOST/PAUL KOLARCZYK

INSTRUMENT: 5100 Technique: HGA
Wavelength: 193.7 Peak Slit: 0.70 Low
Signal Type: Zeeman AA Signal Measurement: Peak Area
Read Time: 7.0 Read Delay: 0 BOC Time: 2
Sample Replicates: 1
Standard Replicates: 1 Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	S0		40	20	8	5	
Standard 1	S10.00	10.00	37	10		5	
Standard 2	S20.00	20.00	38	10		5	
Standard 3	S30.00	30.00	39	10		5	
Samples				20	8	5	

Diluent Location: 40
Modifier #1 Location: 0 Modifier #2 Location:
Calibration Units: ug/L Sample Units: ug/L
Calibration Type: Meth. of Add.

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	100	6	3	300		Alt
2	140	40	5	300		Alt
3	1200	30	10	300		Alt
4	20	1	10	300		Alt
5	2100	0	8	0	*	Alt
6	2500	1	5	300		Alt

Injection Temp: 60 Pipette Speed: 75%

SEQUENCE:

Step	Action and Parameters
1	Pipet diluent + modifier 1 + modifier 2 + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Completely Recalibrate
Locations: None

Conc. Above 'ibration Action: Print Message Only
Alternate S. e Volumes (uL):
Run Alternate Volume Blanks: Yes

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As Sample
1	2	ACCV	31.5	38.5	X	X	X	
2	3	CCB	-3.0	2.0	X	X	X	

Run Periodic QC Samples: Every 5
Out of Limit Action: Stop

Matrix Check Calculations:
% Difference for Dupls: No Locations:
% Recovery for Spike: No Locations: Conc:

Element File: AS_CLP.GEL Element: As Wavelength: 193.7
Date: 04/14/95 Time: 16:12 Slit: 0.70 L
Data File: AS0414X2.DAT ID/Wt File: AS041402.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 41
Remark 1: Standards 1276-74-6
Remark 2: ICV,CCV'S 1276-73-7
Remark 3: MATRIX MODIFIER: Pd(NO3)2 & Mg(NO3)2
Remark 4: EDL SERIAL #913,IDL= 1.9
Remark 5: ANALYST-BRYAN HOST/PAUL KOLARCZYK

Paul F. Kolarczyk

As ID: S0.0 Seq. No.: 00001 A/S Pos.: 40 Date: 04/14/95

0.005

Replicate 1 Time: 16:15
Peak Area (A-s): 0.004 Peak Height (A): 0.019
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.116
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.56

Replicate 2 Time: 16:18
Peak Area (A-s): 0.006 Peak Height (A): 0.013
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): -0.35

Mean Conc (ug/L): -0.45 SD: 0.148 RSD(%): 32.80

Auto-zero performed.

As ID: S10.0 Seq. No.: 00002 A/S Pos.: 4 Date: 04/14/95

Replicate 1 Time: 16:21
Peak Area (A-s): 0.083 Peak Height (A): 0.154
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): 0.078
Concentration (ug/L): 11.33

Replicate 2 Time: 16:24
Peak Area (A-s): 0.079 Peak Height (A): 0.162
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.074
Concentration (ug/L): 10.64

Mean Conc (ug/L): 10.99 SD: 0.489 RSD(%): 4.45

Standard number 1 applied. [10.00]

0,081

Correlation coefficient: 1.00000 Slope: 0.0076 Int: 0.000

~~~~~~

As ID: S20.0 Seq. No.: 00003 A/S Pos.: 5 Date: 04/14/95

0.149

Replicate 1 Time: 16:27
Peak Area (A-s): 0.146 Peak Height (A): 0.296
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.141
Concentration (ug/L): 18.56

Replicate 2 Time: 16:30
Peak Area (A-s): 0.152 Peak Height (A): 0.306
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.147
Concentration (ug/L): 19.31

Mean Conc (ug/L): 18.94 SD: 0.529 RSD(%): 2.79

Standard number 2 applied. [20.00]
Correlation coefficient: 0.99947 Slope: 0.0072 Int: 0.001

~~~~~~

As ID: S30.0 Seq. No.: 00004 A/S Pos.: 5 Date: 04/14/95

0.2135

Replicate 1 Time: 16:33
Peak Area (A-s): 0.209 Peak Height (A): 0.445
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.204
Concentration (ug/L): 28.14

Replicate 2 Time: 16:36
Peak Area (A-s): 0.218 Peak Height (A): 0.445
Background Pk Area (A-s): -0.007 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.213
Concentration (ug/L): 29.35

Mean Conc (ug/L): 28.74 SD: 0.859 RSD(%): 2.99

Standard number 3 applied. [30.00]
Correlation coefficient: 0.99926 Slope: 0.0069 Int: 0.003

~~~~~~

As ID: S50.0 Seq. No.: 00005 A/S Pos.: 1 Date: 04/14/95

0.3745

Replicate 1 Time: 16:39
Peak Area (A-s): 0.375 Peak Height (A): 0.749
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.370
Concentratir 'ug/L): 52.81

Replicate . Time: 16:42
Peak Area (A-s): 0.374
~~~~~~

Peak Area s): 0.374 Peak Height (A): 0.770
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.370
Concentration (ug/L): 52.77

Mean Conc (ug/L): 52.79 SD: 0.024 RSD(%): 0.05

Standard number 4 applied. [50.00]
Correlation coefficient: 0.99913 Slope: 0.0073 Int: -0.001

~~~~~~

As ID: S70.0 Seq. No.: 00006 A/S Pos.: 1 Date: 04/14/95

0.502

Replicate 1 Time: 16:45
Peak Area (A-s): 0.500 Peak Height (A): 1.049
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.495
Concentration (ug/L): 67.93

Replicate 2 Time: 16:48
Peak Area (A-s): 0.504 Peak Height (A): 1.029
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.070
Blank Corrected Pk Area (A-s): 0.499
Concentration (ug/L): 68.39

Mean Conc (ug/L): 68.16 SD: 0.328 RSD(%): 0.48

Standard number 5 applied. [70.00]
Correlation coefficient: 0.99942 ✓ Slope: 0.0072 Int: 0.001 ✓

~~~~~~

As ID: AICV Seq. No.: 00007 A/S Pos.: 39 Date: 04/14/95

Replicate 1 Time: 16:51
Peak Area (A-s): 0.188 Peak Height (A): 0.408
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.183
Concentration (ug/L): 25.41

Replicate 2 Time: 16:54
Peak Area (A-s): 0.187 Peak Height (A): 0.421
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.182
Concentration (ug/L): 25.20

Mean Conc (ug/L): 25.30 ✓ SD: 0.148 RSD(%): 0.59

QC sample is within range 22.5 - 27.5

~~~~~~

As ID: ICB Seq. No.: 00008 A/S Pos.: 3 Date: 04/14/95

Replicate 1 Time: 16:57
Peak Area (A-s): 0.011 Peak Height (A): 0.021
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.006
Concentratic ug/L): 0.70

Replicate 2 Time: 17:00
~~~~~~

Peak Area (A-s): 0.013 Peak Height (A): 0.018
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 0.89

Mean Conc (ug/L): 0.79 SD: 0.133 RSD(%): 16.82

QC sample is within range -3.0 - 2.0

~~~~~~

As ID: CRA Seq. No.: 00009 A/S Pos.: 4 Date: 04/14/95

Replicate 1 Time: 17:03
Peak Area (A-s): 0.075 Peak Height (A): 0.182
Background Pk Area (A-s): -0.012 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.070
Concentration (ug/L): 9.60

Replicate 2 Time: 17:06
Peak Area (A-s): 0.078 Peak Height (A): 0.178
Background Pk Area (A-s): -0.018 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.073
Concentration (ug/L): 9.98

Mean Conc (ug/L): 9.79 SD: 0.268 RSD(%): 2.74

QC sample is within range 5.0 - 15.0

~~~~~~

As ID: ACCV Seq. No.: 00010 A/S Pos.: 2 Date: 04/14/95

Replicate 1 Time: 17:09
Peak Area (A-s): 0.255 Peak Height (A): 0.568
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.250
Concentration (ug/L): 34.78

Replicate 2 Time: 17:12
Peak Area (A-s): 0.256 Peak Height (A): 0.578
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.251
Concentration (ug/L): 34.90

Mean Conc (ug/L): 34.84 SD: 0.086 RSD(%): 0.25

QC sample is within range 31.5 - 38.5

~~~~~~

As ID: CCB Seq. No.: 00011 A/S Pos.: 3 Date: 04/14/95

Replicate 1 Time: 17:14
Peak Area (A-s): 0.010 Peak Height (A): 0.017
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 0.50

Replicate 2 Time: 17:17
Peak Area ( ): 0.001 Peak Height (A): 0.013
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.014
~~~~~~

Blank Corr ed Pk Area (A-s): -0.004
Concentrat..n (ug/L): -0.79

Mean Conc (ug/L): -0.15 SD: 0.912 RSD(%): 618.84

QC sample is within range -3.0 - 2.0

~~~~~~

As ID: ~~AS Position 6~~ 9504G253-003R 2x Seq. No.: 00012 A/S Pos.: 6 Date: 04/14/95

Replicate 1 Time: 17:21
Peak Area (A-s): 0.032 Peak Height (A): 0.043
Background Pk Area (A-s): 0.194 Background Pk Height (A): 0.075
Blank Corrected Pk Area (A-s): 0.027
Concentration (ug/L): 3.53

F771/STD/SOIL

Replicate 2 Time: 17:24
Peak Area (A-s): 0.032 Peak Height (A): 0.042
Background Pk Area (A-s): 0.196 Background Pk Height (A): 0.076
Blank Corrected Pk Area (A-s): 0.027
Concentration (ug/L): 3.52

Mean Conc (ug/L): 3.52 SD: 0.005 RSD(%): 0.13

~~~~~~

As ID: ~~AS Position 6~~ 9504G253-003R 2x Seq. No.: 00013 A/S Pos.: 6 Date: 04/14/95

Replicate 1 Time: 17:26
Peak Area (A-s): 0.155 Peak Height (A): 0.225
Background Pk Area (A-s): 0.236 Background Pk Height (A): 0.083
Blank Corrected Pk Area (A-s): 0.150
Concentration (ug/L): 20.74

Replicate 2 Time: 17:29
Peak Area (A-s): 0.160 Peak Height (A): 0.249
Background Pk Area (A-s): 0.222 Background Pk Height (A): 0.085
Blank Corrected Pk Area (A-s): 0.155
Concentration (ug/L): 21.49

Mean Conc (ug/L): 21.11 SD: 0.529 RSD(%): 2.51

Recovery is 87.9%

~~~~~~

As ID: ACCV Seq. No.: 00014 A/S Pos.: 2 Date: 04/14/95

Replicate 1 Time: 17:32
Peak Area (A-s): 0.243 Peak Height (A): 0.491
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.238
Concentration (ug/L): 33.11

Replicate 2 Time: 17:35
Peak Area (A-s): 0.253 Peak Height (A): 0.535
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.248
Concentratic ug/L): 34.44

Mean Conc (ug/L): 33.77 SD: 0.939 RSD(%): 2.78
~~~~~~

QC sample is within range 31.5 - 38.5

~~~~~~

As ID: CCB Seq. No.: 00015 A/S Pos.: 3 Date: 04/14/95

Replicate 1 Time: 17:38

Peak Area (A-s): 0.003 Peak Height (A): 0.015
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.54

Replicate 2 Time: 17:41
Peak Area (A-s): 0.004 Peak Height (A): 0.015
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.36

Mean Conc (ug/L): -0.45 SD: 0.126 RSD(%): 28.23

QC sample is within range -3.0 - 2.0
~~~~~~

Element File: ASMSA.GEL Element: As Wavelength: 193.7
Date: 04/14/95 Time: 17:48 Slit: 0.70 L
Data File: AS0414X2.DAT ID/Wt File: AS041402.IDW Lamp Current: 0
Technique: HGA Calib. Type: Meth. of Add. Energy: 41
Remark 1: Standards 1276-74-6
Remark 2: ICV,CCV'S 1276-73-7
Remark 3: 4 ul of Pd & Mg matrix modifier
Remark 4: LAMP SERIAL #225,AS EDL,IDL= 1.9
Remark 5: ANALYST-BRYAN HOST/PAUL KOLARCZYK

As ID: ACCV 3 X' = 34.06 Seq. No.: 00016 A/S Pos.: 2 Date: 04/14/95

Replicate 1 Time: 17:48
Peak Area (A-s): 0.250 Peak Height (A): 0.547
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.250

As ID: CCB 3 X' = ~~-0.05~~ -0.05 PFK 4/15/95 Seq. No.: 00017 A/S Pos.: 3 Date: 04/14/95

Replicate 1 Time: 17:51
Peak Area (A-s): 0.006 Peak Height (A): 0.015
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.006

As ID: 95046211-003 Seq. No.: 00018 A/S Pos.: 7 Date: 04/14/95

Replicate 1 Time: 17:54 F767 / CLP/H2O
Peak Area (A-s): 0.119 Peak Height (A): 0.185
Background Pk Area (A-s): 0.416 Background Pk Height (A): 0.125
Blank Corrected Pk Area (A-s): 0.119

As ID: S10.00 Seq. No.: 00019 A/S Pos.: 7 Date: 04/14/95

Replicate 1 Time: 17:57
Peak Area (A-s): 0.168 Peak Height (A): 0.296
Background Pk Area (A-s): 0.415 Background Pk Height (A): 0.166
Blank Corrected Pk Area (A-s): 0.168

As ID: S20.00 Seq. No.: 00020 A/S Pos.: 7 Date: 04/14/95

Replicate 1 Time: 18:00
Peak Area (A-s): 0.213 Peak Height (A): 0.408
Background Pk Area (A-s): 0.451 Background Pk Height (A): 0.173
Blank Corrected Pk Area (A-s): 0.213

As ID: S? 0 Seq. No.: 00021 A/S Pos.: 7 Date: /14/95

Replicate 1 Time: 18:03
Peak Area (A-s): 0.277

Peak Area (A-s): 0.273 Peak Height (A): 0.517
Background Pk Area (A-s): 0.423 Background Pk Height (A): 0.175
Blank Corrected Pk Area (A-s): 0.273

As ID: 9504G211-003 Seq. No.: 00018 A/S Pos.: 7 Date: 04/14/95

Concentration (ug/L): ~~22.87~~ 23.10

CC = 0.9981 B = 0.1172
M = 0.0051 X' = -23.12

Correlation coefficient: ~~0.99826~~ ~~Slope: 0.0051~~ ~~Int: 0.117~~
PFK 4/15/95

As ID: 9504G211-011 2X Seq. No.: 00022 A/S Pos.: 8 Date: 04/14/95

Replicate 1 Time: 18:06
Peak Area (A-s): 0.071 Peak Height (A): 0.116
Background Pk Area (A-s): 0.367 Background Pk Height (A): 0.150
Blank Corrected Pk Area (A-s): 0.071

F768/CLP/SOW

As ID: S10.00 Seq. No.: 00023 A/S Pos.: 8 Date: 04/14/95

Replicate 1 Time: 18:09
Peak Area (A-s): 0.133 Peak Height (A): 0.228
Background Pk Area (A-s): 0.425 Background Pk Height (A): 0.170
Blank Corrected Pk Area (A-s): 0.133

As ID: S20.00 Seq. No.: 00024 A/S Pos.: 8 Date: 04/14/95

Replicate 1 Time: 18:11
Peak Area (A-s): 0.182 Peak Height (A): 0.328
Background Pk Area (A-s): 0.417 Background Pk Height (A): 0.172
Blank Corrected Pk Area (A-s): 0.182

As ID: S30.00 Seq. No.: 00025 A/S Pos.: 8 Date: 04/14/95

Replicate 1 Time: 18:14
Peak Area (A-s): 0.242 Peak Height (A): 0.417
Background Pk Area (A-s): 0.451 Background Pk Height (A): 0.177
Blank Corrected Pk Area (A-s): 0.242

As ID: 9504G211-011 2X Seq. No.: 00022 O A/S Pos.: 8 Date: 04/14/95

Concentration (ug/L): ~~12.91~~ 12.90

CC = 0.9990 PFK 4/15/95 B = 0.0727
M = 0.0056 X' = -12.94

Correlation coefficient: ~~0.99923~~ ~~Slope: 0.0056~~ ~~Int: 0.073~~
PFK 4/15/95

As ID: 9504G211-015 Seq. No.: 00026 A/S Pos.: 9 Date: 04/14/95

Replicate 1 Time: 18:17
Peak Area (A-s): 0.080 Peak Height (A): 0.120
Background Pk Area (A-s): 0.329 Background Pk Height (A): 0.128
Blank Corrected Pk Area (A-s): 0.080

F768/CLP/SOW

As ID: S10.00 Seq. No.: 00027 A/S Pos.: 9 Date: 04/14/95

Replicate 1 Time: 18:20
Peak Area (A-s): 0.140 Peak Height (A): 0.211
Background P rea (A-s): 0.258 Background Pk Height (A): 0.1C
Blank Corre Pk Area (A-s): 0.140

As ID: S20.00 Seq. No.: 00028 A/S Pos.: 9 Date: 04/14/95

As ID: .00 Seq. No.: 00028 A/S Pos.: 9 Date: 4/14/95

Replicate 1 Time: 18:23
Peak Area (A-s): 0.196 Peak Height (A): 0.298
Background Pk Area (A-s): 0.270 Background Pk Height (A): 0.095
Blank Corrected Pk Area (A-s): 0.196

As ID: S30.00 Seq. No.: 00029 A/S Pos.: 9 Date: 04/14/95

Replicate 1 Time: 18:26
Peak Area (A-s): 0.251 Peak Height (A): 0.379
Background Pk Area (A-s): 0.228 Background Pk Height (A): 0.091
Blank Corrected Pk Area (A-s): 0.251

As ID: 9504G211-015 Seq. No.: 00026 A/S Pos.: 9 Date: 04/14/95

CC = 0.9998 B = 0.0814
M = 0.0057 X' = -14.30

Concentration (ug/L): ~~14.30~~ 14.30

Correlation coefficient: ~~0.99971 Slope: 0.0057 Int: 0.081~~

PFK 4/15/95

As ID: 9504G211-015R Seq. No.: 00030 A/S Pos.: 10 Date: 04/14/95

Replicate 1 Time: 18:29
Peak Area (A-s): 0.081 Peak Height (A): 0.102
Background Pk Area (A-s): 0.247 Background Pk Height (A): 0.084
Blank Corrected Pk Area (A-s): 0.081

As ID: S10.00 Seq. No.: 00031 A/S Pos.: 10 Date: 04/14/95

Replicate 1 Time: 18:32
Peak Area (A-s): 0.131 Peak Height (A): 0.179
Background Pk Area (A-s): 0.243 Background Pk Height (A): 0.081
Blank Corrected Pk Area (A-s): 0.131

As ID: S20.00 Seq. No.: 00032 A/S Pos.: 10 Date: 04/14/95

Replicate 1 Time: 18:35
Peak Area (A-s): 0.189 Peak Height (A): 0.272
Background Pk Area (A-s): 0.232 Background Pk Height (A): 0.087
Blank Corrected Pk Area (A-s): 0.189

As ID: S30.00 Seq. No.: 00033 A/S Pos.: 10 Date: 04/14/95

Replicate 1 Time: 18:38
Peak Area (A-s): 0.236 Peak Height (A): 0.350
Background Pk Area (A-s): 0.262 Background Pk Height (A): 0.087
Blank Corrected Pk Area (A-s): 0.236

As ID: 9504G211-015R Seq. No.: 00030 A/S Pos.: 10 Date: 04/14/95

CC = 0.9992 B = 0.0808
M = 0.0052 X' = -15.45

Concentration (ug/L): ~~15.46~~ 15.40

Correlation coefficient: ~~0.99939 Slope: 0.0052 Int: 0.081~~

PFK 4/15/95

As ID: AC X = 33.38 Seq. No.: 00034 A/S Pos.: 2 Date: /14/95

Replicate 1 Time: 18:41

Peak Area (A-s): 0.245
Background Pk Area (A-s): 0.012
Blank Corrected Pk Area (A-s): 0.245

Peak Height (A): 0.481
Background Pk Height (A): 0.035

As ID: CCB 4 Seq. No.: 00035 A/S Pos.: 3 Date: 04/14/95

r = 0.65

Replicate 1
Peak Area (A-s): 0.011
Background Pk Area (A-s): 0.022
Blank Corrected Pk Area (A-s): 0.011

Time: 18:44
Peak Height (A): 0.016
Background Pk Height (A): 0.013

(1)

WESTON Analytics AA6.1 Report

Data File:AS041771 Date collected: 95/04/17 Time:
Method File: Date of Report: Time:
Analyst: DBSDAKPFK Remarks:

	AS ppb				
AICV	25.06	MASTD	1		10:54
ICB	-1.06	MASTD	1		11:00
CRA	10.05	MASTD	1		11:06
ACCV 1	33.90	MASTD	1		11:12
CCB	-0.69	MASTD	1		11:18
95046290-013	6.32	MASTD	5	956F780	11:24
95046285-001	2.77	MASTD	2	956F779	11:36
95046285-001R	3.40	MASTD	2		11:48
95046285-001S	19.69	MASTD	2		11:59
ACCV 2	34.27	MASTD	1		12:11
CCB 2	-0.58	MASTD	1		12:17
95046285-002	24.64	MASTD	20		12:23
95046285-003	4.15	MASTD	2		12:35
ACCV 3	34.82	MASTD	1		13:10
CCB 3	-1.18	MASTD	1		13:16
ACCV 4	32.80	MASTD	1		14:10
CCB 4	-1.26	MASTD	1		14:16
ACCV 5	33.98	MASTD	1		15:08
CCB 5	-0.95	MASTD	1		15:14
956F781-MB1	-0.72	MASTD	1	956F781	15:44
956F781-LC1	37.34	MASTD	1		15:56
ACCV 6	34.94	MASTD	1		16:08
CCB 6	-1.37	MASTD	1		16:14
956F781-LC2	36.17	MASTD	1		16:20
ACCV 7	35.79	MASTD	1		17:08
CCB 7	-1.57	MASTD	1		17:13
95046321-002	14.72	MASTD	5		17:19
95046321-004	6.35	MASTD	5		17:43
95046321-005	12.18	MASTD	5		17:55
ACCV 8	35.77	MASTD	1		18:07
CCB 8	0.31	MASTD	1		18:13
95046321-007	26.33	MASTD	5		18:31
ACCV 9	35.47	MASTD	1		19:06
CCB 9	-0.35	MASTD	1		19:12
95046321-008	5.47	MASTD	1		19:18
ACCV 10	35.57	MASTD	1		19:30
CCB 10	-1.40	MASTD	1		19:36
95046321-003	6.30	MASTD	10		20:19
ACCV 11	36.17	MASTD	1		20:31
CCB 11	-1.09	MASTD	1		20:37
95046321-006	6.28	MASTD	25		20:43
ACCV	35.37	MASTD	1		21:20
CCB 12	-0.78	MASTD	1		21:26
95046321-001	4.66	MASTD	10		21:32
95046321-001R	8.36	MASTD	10		21:43
95046321-001S	9.19	MASTD	10		21:55
ACCV 13	36.41	MASTD	1		22:07
CCB 13	-0.84	MASTD	1		22:13

4/18/95

4/18/95

4/18/95

IDL = ~~1.67~~ CB 4/24/95 run 3
new 1.7 ug/L +

+ AA4 1st quarter 1.9
AA4 2nd quarter 1.7
AA6 1.7
report highest of the 3

303

SAVED AS: AS041722.PRN

WESTON Analytics AA4.1 Report

Data File:AS0417Z1 Date collected: 95/04/17 Time:
Method File: Date of Report: Time:
Analyst: DBSDAKPFK Remarks:

		AS ppb				
ACCV	14	36.46	MASTO	1		22:23
CCB		-0.16	MASTO	1		22:26
95046211-012		23.00	MASTO	1	956F768	22:29
ACCV	15	36.32	MASTO	1		22:41
CCB		-0.61	MASTO	1		22:44

5

4/18/95 UPDATED

4/18/95

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WESTON Environmental Metrics, Inc.
AA4 - PE5100PC GFAA Sample Analysis Log

OP No. 21-31G
Rev. 01; Eff. Date 03/

Element: AS Lamp: EDL Current: 305 Filename: A50417X1
Energy: 41

Prep Batch / Matrix: F780/F779/F755 QC: (a.) Standard b. CLP

Autosampler Location	QC / Sample ID	Dilution	Rerun	MSA	Comments
1	STD				
2	ICV/CCV				
3	ICB/CCB				
4	CRA				
5	STD				
6	95046290-013 5X				(F780) std
7	95046285-001 2X				(F779) std
8	-001R 2X				
9	-001S 2X				
10	-002 20X				
11	-003 2X				
12	95GF755-MB1				(Std Soils)
13	-LC1				
14	-LC2				
15	95046094-003				
16	-003 (2X)	(4X)	✓		
17	-004 (20X)	(40X)	✓		
18	-004R (20X)	↓	↓		
19	-004S (20X)	↓	↓		↓
20	✓ -003 (4X)				
21	✓ -004 (40X)				
22	✓ -004R (40X)		✓		
23	✓ -004S (40X)				(Std Soils)
24	95GF781-MB1				
25	-LC1				
26	-LC2				
27	95046321-001 (5X)		✓		
28	-001R (5X)		✓		
29	-001S (5X)		✓		
30	-002 (5X)				
31	-003 (5X)	10X	✓		
32	-004 (5X)				
33	-005 (5X)				
34	-006 (5X)	25X	✓		
35	-007 (5X)				
36	-008 (5X)				
37	✓ 95046094-004R (40X)				(F755)
38	95046321 -008				F741
39	ICV 25.0 ppb				
40	BLANK				

Analyst: Dan [illegible] / Debra Kelly Date: 4/17/95

Reviewer: [illegible] Date: 4/18/95

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cont on Page 24

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WESTON Environmental Metrics, Inc.
AA4 - PE5100PC GFAA Sample Analysis Log

OP No. 21-21G-1537
Rev. 01; Eff. Date 03/06/95

Filename: AS0417X1

Element: AS Lamp: EDL Current: 305 Energy: 41

Prep Batch / Matrix: F781/F768 QC: (a.) Standard (b.) CLP

Autosampler Location	QC / Sample ID	Dilution	Rerun	MSA	Comments
1	STD				
2	ICV/CCV				
3	ICB/CCB				
4	CRA				
5	STD				
6	9504G321-001 (5x)	10x	✓		F781/STD SOIL
7	-001R (5x)	10x	✓		
8	-001S (5x)	10x	✓		
9	-003 (10x)				
10	-006 (25x)				
11	-001 (10x)				
12	-001R (10x)				
13	-001S (10x)				
14	9504G211-012 MSA				F768/CLP
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29	PFK				
30					
31	4/17/95				
32					
33					
34					
35					
36					
37					
38					
39	ICV 25.00ppb				
40	Blank H_2O				

Analyst: Paul F. Folarczyk Date: 4/17/95

Reviewer: [signature] Date: 4/18/95

Page: 24

Element Fi AS_CLP.GEL
Element: As Analyst: BPH/DAK
Print Data: Main+Suppl. Peak Storage: None
Remarks:
Standards 1276-74-6
ICV,CCV'S 1276-73-7
MATRIX MODIFIER: Pd(NO3)2 & Mg(NO3)2
EDL SERIAL #913,IDL= ~~1.9~~ 1.7 4/26/96
ANALYST-BRYAN HOST/PAUL KOLARCZYK

INSTRUMENT: 5100 Technique: HGA
Wavelength: 193.7 Peak Slit: 0.70 Low
Signal Type: Zeeman AA Signal Measurement: Peak Area
Read Time: 7.0 Read Delay: 0 BOC Time: 2
Sample Replicates: 2 if <= 70.0 ug/L, 2 if > 70.1 ug/L, else 2
Standard Replicates: 2 Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	S0.0		40	20	8	5	
Standard 1	S10.0	10.00	4	20	8	5	
Standard 2	S20.0	20.00	5	8	20	5	
Standard 3	S30.0	30.00	5	12	16	5	
Standard 4	S50.0	50.00	1	10	18	5	
Standard 5	S70.0	70.00	1	14	14	5	
Samples				20	8	5	

Diluent Location: 40
Modifier #1 Location: 0 Modifier #2 Location:
Calibration Units: ug/L Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	100	6	3	300		Alt
2	140	40	5	300		Norm
3	1200	30	10	300		Alt
4	20	1	10	300		Alt
5	2100	0	8	0	*	Alt
6	2500	1	5	300		Alt

Injection Temp: 60 Pipette Speed: 75%

SEQUENCE:

Step	Action and Parameters
1	Pipet diluent + modifier 1 + modifier 2 + spike + sample/std
2	Run HGA steps 1 to End

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CHECKS:
Recalibration Type: Completely Recalibrate
Locations: None

Conc. Above Calibration Action: Dilute & Reanalyze After All Reps
Alternate Sample Volumes (uL): 4
Run Alternate Volume Blanks: No

If %RSD > 20.0 and Concentration > 10 then Retry 1 times
Check %RSD on: Samples + Standards + QC Samples

Recovery Measurements:
8 uL of 50.0 ug/L Standard at Location 5 Gives 20.00 ug/L
Measure Recovery on Samples: 6-39
Add to QC Samples: No % Recovery Limits:

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As Sample
1	39	AICV	22.5	27.5	X			
2	3	ICB	-3.0	2.0	X			
3	4	CRA	5.0	15.0	X			X
4	2	ACCV	31.5	38.5	X	X	X	
5	3	CCB	-3.0	2.0	X	X	X	
6	4							

Run Periodic QC Samples: Every 8
Out of Limit Action: Recalibrate and Rerun Samples

Matrix Check Calculations:
% Difference for Dupls: No Locations:
% Recovery for Spike: No Locations: Conc:

Element File: ASMSA.GEL
Element: As — Analyst: BPH/PFK
Print Data: Main+Suppl. — Peak Storage: None
Remarks:
Standards 1276-74-6
ICV,CCV'S 1276-73-7
4 ul of Pd & Mg matrix modifier
LAMP SERIAL #225,AS EDL,IDL= ~~1.9~~ 1.7 4/26/94
ANALYST-BRYAN HOST/PAUL KOLARCZYK

INSTRUMENT: 5100 — Technique: HGA
Wavelength: 193.7 Peak — Slit: 0.70 Low
Signal Type: Zeeman AA — Signal Measurement: Peak Area
Read Time: 7.0 — Read Delay: 0 — BOC Time: 2
Sample Replicates: 1
Standard Replicates: 1 — Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	S0		40	20	8	5	
Standard 1	S10.00	10.00	37	10		5	
Standard 2	S20.00	20.00	38	10		5	
Standard 3	S30.00	30.00	39	10		5	
Samples				20	8	5	

Diluent Location: 40
Modifier #1 Location: 0 — Modifier #2 Location:
Calibration Units: ug/L — Sample Units: ug/L
Calibration Type: Meth. of Add.

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	100	6	3	300		Alt
2	140	40	5	300		Alt
3	1200	30	10	300		Alt
4	20	1	10	300		Alt
5	2100	0	8	0	*	Alt
6	2500	1	5	300		Alt

Injection Temp: 60 — Pipette Speed: 75%

SEQUENCE:

Step	Action and Parameters
1	Pipet diluent + modifier 1 + modifier 2 + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Completely Recalibrate
Locations: None

Conc. Above Calibration Action: Print Message Only
Alternate Sample Volumes (uL):
Run Alternate Volume Blanks: Yes

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Conc. Limits Upper	After Calib	Periodic Check	At End	Count As Sample
1	2	ACCV	31.5	38.5	X	X	X	
2	3	CCB	-3.0	2.0	X	X	X	

Run Periodic QC Samples: Every 5
Out of Limit Action: Stop

Matrix Check Calculations:
% Difference for Dupls: No Locations:
% Recovery for Spike: No Locations: Conc:

Element File: AS_CLP.GEL Element: As Wavelength: 193.7
Date: 04/17/95 Time: 10:12 Slit: 0.70 L
Data File: AS0417X1.DAT ID/Wt File: AS041701.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 41
Remark 1: Standards 1276-74-6
Remark 2: ICV,CCV'S 1276-73-7
Remark 3: MATRIX MODIFIER: Pd(NO3)2 & Mg(NO3)2
Remark 4: EDL SERIAL #913,IDL= 1.9
Remark 5: ANALYST-BRYAN HOST/PAUL KOLARCZYK

As ID: S0.0 Seq. No.: 00001 A/S Pos.: 40 Date: 04/17/95

0.003

Replicate 1 Time: 10:15
Peak Area (A-s): 0.007 Peak Height (A): 0.015
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.34

Replicate 2 Time: 10:18
Peak Area (A-s): -0.001 Peak Height (A): 0.014
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): -0.005
Concentration (ug/L): -0.75

Mean Conc (ug/L): -0.20 SD: 0.767 RSD(%): 377.39

Auto-zero performed.

As ID: S10.0 Seq. No.: 00002 A/S Pos.: 4 Date: 04/17/95

0.0775

Replicate 1 Time: 10:21
Peak Area (A-s): 0.072 Peak Height (A): 0.162
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.069
Concentration (ug/L): 9.72

Replicate 2 Time: 10:24
Peak Area (A-s): 0.083 Peak Height (A): 0.161
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.080
Concentration (ug/L): 11.20

Mean Conc (ug/L): 10.46 SD: 1.043 RSD(%): 9.97

Standard number 1 applied. [10.00]
Correlation coefficient: 1.00000 Slope: 0.0075 Int: 0.000

As ID: S20.0 Seq. No.: 00003 A/S Pos.: 5 Date: 04/17/95

0.1495

Replicate 1 Time: 10:27
Peak Area (A-s): 0.149 Peak Height (A): 0.322
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.146
Concentration (ug/L): 19.50

Replicate 2 Time: 10:30
Peak Area (A-s): 0.150 Peak Height (A): 0.315
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.147
Concentration (ug/L): 19.68

Mean Conc (ug/L): 19.59 SD: 0.126 RSD(%): 0.64

Standard number 2 applied. [20.00]
Correlation coefficient: 0.99993 Slope: 0.0073 Int: 0.001

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As ID: S30.0 Seq. No.: 00004 A/S Pos.: 5 Date: 04/17/95

0.211

Replicate 1 Time: 10:33
Peak Area (A-s): 0.213 Peak Height (A): 0.457
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.210
Concentration (ug/L): 28.66

Replicate 2 Time: 10:36
Peak Area (A-s): 0.209 Peak Height (A): 0.466
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.207
Concentration (ug/L): 28.14

Mean Conc (ug/L): 28.40 SD: 0.365 RSD(%): 1.28

Standard number 3 applied. [30.00]
Correlation coefficient: 0.99912 Slope: 0.0070 Int: 0.003

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As ID: S50.0 Seq. No.: 00005 A/S Pos.: 1 Date: 04/17/95

0.353

Replicate 1 Time: 10:39
Peak Area (A-s): 0.355 Peak Height (A): 0.750
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.352
Concentration (ug/L): 50.07

Replicate 2 Time: 10:42
Peak Area (A-s): 0.351 Peak Height (A): 0.754
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.348
Concentration (ug/L): 49.50

Mean Conc (ug/L): 49.78 SD: 0.398 RSD(%): 0.80

Standard number 4 applied. [50.00]
Correlation coefficient: 0.99970 Slope: 0.0069 Int: 0.003

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As ID: S70.0 Seq. No.: 00006 A/S Pos.: 1 Date: 04/17/95

0.4705

Replicate 1 Time: 10:45
Peak Area (A-s): 0.475 Peak Height (A): 1.006
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.081
Blank Corrected Pk Area (A-s): 0.472
Concentration (ug/L): 67.56
~~~~~~

Replicate 2 Time: 10:48
Peak Area (A-s): 0.466 Peak Height (A): 0.987
Background Pk Area (A-s): 0.054 Background Pk Height (A): 0.073
Blank Corrected Pk Area (A-s): 0.463
Concentration (ug/L): 66.21

Mean Conc (ug/L): 66.89 SD: 0.957 RSD(%): 1.43

Standard number 5 applied. [70.00]
Correlation coefficient: 0.99930 Slope: 0.0067 Int: 0.007

~~~~~~

As ID: AICV Seq. No.: 00007 A/S Pos.: 39 Date: 04/17/95

Replicate 1 Time: 10:51
Peak Area (A-s): 0.175 Peak Height (A): 0.389
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.172
Concentration (ug/L): 24.68

Replicate 2 Time: 10:54
Peak Area (A-s): 0.180 Peak Height (A): 0.395
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.177
Concentration (ug/L): 25.43

Mean Conc (ug/L): 25.06 SD: 0.531 RSD(%): 2.12

QC sample is within range 22.5 - 27.5

~~~~~~

As ID: ICB Seq. No.: 00008 A/S Pos.: 3 Date: 04/17/95

Replicate 1 Time: 10:57
Peak Area (A-s): 0.007 Peak Height (A): 0.014
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): -0.51

Replicate 2 Time: 11:00
Peak Area (A-s): -0.001 Peak Height (A): 0.015
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -1.60

Mean Conc (ug/L): -1.06 SD: 0.772 RSD(%): 72.88

QC sample is within range -3.0 - 2.0

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As ID: CRA Seq. No.: 00009 A/S Pos.: 4 Date: 04/17/95

Replicate 1 Time: 11:03
Peak Area (A-s): 0.073 Peak Height (A): 0.167
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): 0.070
Concentration (ug/L): 9.41

Replicate 2 Time: 11:06
~~~~~~

Peak Area (A-s): 0.082 Peak Height (A): 0.168
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.079
Concentration (ug/L): 10.70

Mean Conc (ug/L): 10.05 SD: 0.912 RSD(%): 9.08

QC sample is within range 5.0 - 15.0

~~~~~~

As ID: ACCV Seq. No.: 00010 A/S Pos.: 2 Date: 04/17/95

Replicate 1 Time: 11:09
Peak Area (A-s): 0.236 Peak Height (A): 0.536
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.233
Concentration (ug/L): 33.75

Replicate 2 Time: 11:12
Peak Area (A-s): 0.238 Peak Height (A): 0.539
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.235
Concentration (ug/L): 34.04

Mean Conc (ug/L): 33.90 SD: 0.204 RSD(%): 0.60

QC sample is within range 31.5 - 38.5

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As ID: CCB Seq. No.: 00011 A/S Pos.: 3 Date: 04/17/95

Replicate 1 Time: 11:15
Peak Area (A-s): 0.006 Peak Height (A): 0.015
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): -0.57

Replicate 2 Time: 11:18
Peak Area (A-s): 0.005 Peak Height (A): 0.014
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.82

Mean Conc (ug/L): -0.69 SD: 0.178 RSD(%): 25.78

QC sample is within range -3.0 - 2.0

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As ID: 9504G290-013 5X Seq. No.: 00012 A/S Pos.: 6 Date: 04/17/95

Replicate 1 Time: 11:21
Peak Area (A-s): 0.051 Peak Height (A): 0.085
Background Pk Area (A-s): 0.064 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.048
Concentration (ug/L): 6.16

F980

Replicate 2 Time: 11:24
Peak Area (A-s): 0.053 Peak Height (A): 0.084
Background Pk Area (A-s): 0.076 Background Pk Height (A): 0.045
~~~~~~

Blank Corre ed Pk Area (A-s): 0.245
Concentration (ug/L): 35.52

Replicate 2 Time: 12:05
Peak Area (A-s): 0.244 Peak Height (A): 0.422
Background Pk Area (A-s): 0.396 Background Pk Height (A): 0.204
Blank Corrected Pk Area (A-s): 0.241
Concentration (ug/L): 34.98

Mean Conc (ug/L): 35.25 SD: 0.379 RSD(%): 1.08

Recovery is 77.8%

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As ID: ACCV Seq. No.: 00020 A/S Pos.: 2 Date: 04/17/95

Replicate 1 Time: 12:08
Peak Area (A-s): 0.235 Peak Height (A): 0.560
Background Pk Area (A-s): 0.091 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.233
Concentration (ug/L): 33.70

Replicate 2 Time: 12:11
Peak Area (A-s): 0.243 Peak Height (A): 0.568
Background Pk Area (A-s): 0.060 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.240
Concentration (ug/L): 34.83

Mean Conc (ug/L): 34.27 SD: 0.797 RSD(%): 2.32

QC sample is within range 31.5 - 38.5

~~~~~~

As ID: CCB Seq. No.: 00021 A/S Pos.: 3 Date: 04/17/95

Replicate 1 Time: 12:14
Peak Area (A-s): 0.009 Peak Height (A): 0.016
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): -0.20

Replicate 2 Time: 12:17
Peak Area (A-s): 0.004 Peak Height (A): 0.013
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.95

Mean Conc (ug/L): -0.58 SD: 0.530 RSD(%): 91.99

QC sample is within range -3.0 - 2.0

~~~~~~

As ID: 9504G285-002 20 Seq. No.: 00022 A/S Pos.: 10 Date: 04/17/95

Replicate 1 Time: 12:20
Peak Area (A-s): 0.168 Peak Height (A): 0.274
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.165
Concentration (ug/L): 23.67
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As ID: 95GF755-LC1 Seq. No.: 00029 A/S Pos.: 13 Date: 04/17/95

Replicate 1 Time: 13:02
Peak Area (A-s): 0.387 Peak Height (A): 0.781
Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.384
Concentration (ug/L): 56.38

Replicate 2 Time: 13:05
Peak Area (A-s): 0.392 Peak Height (A): 0.783
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.389
Concentration (ug/L): 57.11

Mean Conc (ug/L): 56.75 SD: 0.520 RSD(%): 0.92

Recovery is 96.6% ✓

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As ID: ACCV Seq. No.: 00030 A/S Pos.: 2 Date: 04/17/95

Replicate 1 Time: 13:08
Peak Area (A-s): 0.239 Peak Height (A): 0.523
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.236
Concentration (ug/L): 34.17

Replicate 2 Time: 13:10
Peak Area (A-s): 0.247 Peak Height (A): 0.541
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.244
Concentration (ug/L): 35.47

Mean Conc (ug/L): 34.82 SD: 0.918 RSD(%): 2.64 ✓

QC sample is within range 31.5 - 38.5 ✓

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As ID: CCB Seq. No.: 00031 A/S Pos.: 3 Date: 04/17/95

Replicate 1 Time: 13:13
Peak Area (A-s): 0.006 Peak Height (A): 0.016
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): -0.61

Replicate 2 Time: 13:16
Peak Area (A-s): -0.002 Peak Height (A): 0.013
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -1.75

Mean Conc (ug/L): -1.18 SD: 0.802 RSD(%): 67.91

QC sample is within range -3.0 - 2.0 ✓
~~~~~~

Peak Area (A-s): 0.252 Peak Height (A): 0.571
Background Pk Area (A-s): 0.303 Background Pk Height (A): 0.152
Blank Corrected Pk Area (A-s): 0.249
Concentration (ug/L): 36.21

Mean Conc (ug/L): 36.41 SD: 0.287 RSD(%): 0.79

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As ID: 9504G094-004 20 Seq. No.: 00039 A/S Pos.: 17 Date: 04/17/95

Replicate 1 Time: 14:01
Peak Area (A-s): 0.341 Peak Height (A): 0.804
Background Pk Area (A-s): 0.311 Background Pk Height (A): 0.166
Blank Corrected Pk Area (A-s): 0.338
Concentration (ug/L): 49.49

Replicate 2 Time: 14:04
Peak Area (A-s): 0.348 Peak Height (A): 0.817
Background Pk Area (A-s): 0.306 Background Pk Height (A): 0.158
Blank Corrected Pk Area (A-s): 0.345
Concentration (ug/L): 50.57

Mean Conc (ug/L): 50.03 SD: 0.767 RSD(%): 1.53

Recovery is 68.1%

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As ID: ACCV Seq. No.: 00040 A/S Pos.: 2 Date: 04/17/95

Replicate 1 Time: 14:07
Peak Area (A-s): 0.227 Peak Height (A): 0.486
Background Pk Area (A-s): 0.087 Background Pk Height (A): 0.083
Blank Corrected Pk Area (A-s): 0.224
Concentration (ug/L): 32.39

Replicate 2 Time: 14:10
Peak Area (A-s): 0.232 Peak Height (A): 0.542
Background Pk Area (A-s): 0.054 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.229
Concentration (ug/L): 33.21

Mean Conc (ug/L): 32.80 SD: 0.578 RSD(%): 1.76

QC sample is within range 31.5 - 38.5

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As ID: CCB Seq. No.: 00041 A/S Pos.: 3 Date: 04/17/95

Replicate 1 Time: 14:13
Peak Area (A-s): 0.001 Peak Height (A): 0.018
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.41

Replicate 2 Time: 14:16
Peak Area (A-s): 0.003 Peak Height (A): 0.014
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -1.11

317
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Mean Conc (ug/L): -1.26 SD: 0.209 RSD(%): 16.63

QC sample is within range -3.0 - 2.0

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As ID: 9504G094-004R20 Seq. No.: 00042 A/S Pos.: 18 Date: 04/17/95

Replicate 1 Time: 14:19
Peak Area (A-s): 0.245 Peak Height (A): 0.495
Background Pk Area (A-s): 0.229 Background Pk Height (A): 0.137
Blank Corrected Pk Area (A-s): 0.243
Concentration (ug/L): 35.19

Replicate 2 Time: 14:21
Peak Area (A-s): 0.257 Peak Height (A): 0.517
Background Pk Area (A-s): 0.269 Background Pk Height (A): 0.149
Blank Corrected Pk Area (A-s): 0.254
Concentration (ug/L): 36.93

Mean Conc (ug/L): 36.06 SD: 1.232 RSD(%): 3.42

~~~~~~

As ID: 9504G094-004R20 Seq. No.: 00043 A/S Pos.: 18 Date: 04/17/95

Replicate 1 Time: 14:24
Peak Area (A-s): 0.355 Peak Height (A): 0.729
Background Pk Area (A-s): 0.281 Background Pk Height (A): 0.151
Blank Corrected Pk Area (A-s): 0.352
Concentration (ug/L): 51.60

Replicate 2 Time: 14:27
Peak Area (A-s): 0.354 Peak Height (A): 0.738
Background Pk Area (A-s): 0.272 Background Pk Height (A): 0.145
Blank Corrected Pk Area (A-s): 0.351
Concentration (ug/L): 51.36

Mean Conc (ug/L): 51.48 SD: 0.166 RSD(%): 0.32

Recovery is 77.1%

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As ID: 9504G094-004S20 Seq. No.: 00044 A/S Pos.: 19 Date: 04/17/95

Replicate 1 Time: 14:30
Peak Area (A-s): 0.302 Peak Height (A): 0.606
Background Pk Area (A-s): 0.300 Background Pk Height (A): 0.154
Blank Corrected Pk Area (A-s): 0.299
Concentration (ug/L): 43.63

Replicate 2 Time: 14:33
Peak Area (A-s): 0.284 Peak Height (A): 0.613
Background Pk Area (A-s): 0.314 Background Pk Height (A): 0.155
Blank Corrected Pk Area (A-s): 0.282
Concentration (ug/L): 41.02

Mean Conc (ug/L): 42.33 SD: 1.845 RSD(%): 4.36
~~~~~~

Peak Area (A-s): 0.146 Peak Height (A): 0.225
Background Pk Area (A-s): 0.162 Background Pk Height (A): 0.095
Blank Corrected Pk Area (A-s): 0.143
Concentration (ug/L): 20.38

Replicate 2 Time: 14:57
Peak Area (A-s): 0.142 Peak Height (A): 0.214
Background Pk Area (A-s): 0.154 Background Pk Height (A): 0.098
Blank Corrected Pk Area (A-s): 0.140
Concentration (ug/L): 19.78

Mean Conc (ug/L): 20.08 SD: 0.418 RSD(%): 2.08

~~~~~~

As ID: 9504G094-004 40 Seq. No.: 00049 A/S Pos.: 21 Date: 04/17/95

Replicate 1 Time: 15:00
Peak Area (A-s): 0.258 Peak Height (A): 0.482
Background Pk Area (A-s): 0.163 Background Pk Height (A): 0.088
Blank Corrected Pk Area (A-s): 0.255
Concentration (ug/L): 37.10

Replicate 2 Time: 15:03
Peak Area (A-s): 0.258 Peak Height (A): 0.496
Background Pk Area (A-s): 0.160 Background Pk Height (A): 0.090
Blank Corrected Pk Area (A-s): 0.255
Concentration (ug/L): 37.06

Mean Conc (ug/L): 37.08 SD: 0.030 RSD(%): 0.08

Recovery is 85.0% ✓

~~~~~~

As ID: ACCV Seq. No.: 00050 A/S Pos.: 2 Date: 04/17/95

Replicate 1 Time: 15:06
Peak Area (A-s): 0.240 Peak Height (A): 0.506
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.237
Concentration (ug/L): 34.33

Replicate 2 Time: 15:08
Peak Area (A-s): 0.235 Peak Height (A): 0.571
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.232
Concentration (ug/L): 33.64

Mean Conc (ug/L): 33.98 SD: 0.483 RSD(%): 1.42 ✓

QC sample is within range 31.5 - 38.5

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As ID: CCB Seq. No.: 00051 A/S Pos.: 3 Date: 04/17/95

Replicate 1 Time: 15:11
Peak Area (A-s): 0.003 Peak Height (A): 0.014
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.99
~~~~~~

Replicate 2 Time: 15:14
Peak Area (A-s): 0.004 Peak Height (A): 0.015
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.91

Mean Conc (ug/L): -0.95 SD: 0.056 RSD(%): 5.92

QC sample is within range -3.0 - 2.0

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As ID: 9504G094-004R40 Seq. No.: 00052 A/S Pos.: 22 Date: 04/17/95

Replicate 1 Time: 15:18
Peak Area (A-s): 0.142 Peak Height (A): 0.217
Background Pk Area (A-s): 0.135 Background Pk Height (A): 0.083
Blank Corrected Pk Area (A-s): 0.140
Concentration (ug/L): 19.79

Replicate 2 Time: 15:21
Peak Area (A-s): 0.146 Peak Height (A): 0.212
Background Pk Area (A-s): 0.142 Background Pk Height (A): 0.090
Blank Corrected Pk Area (A-s): 0.143
Concentration (ug/L): 20.36

Mean Conc (ug/L): 20.07 SD: 0.407 RSD(%): 2.03

4/17/95

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As ID: 9504G094-004R40 Seq. No.: 00053 A/S Pos.: 22 Date: 04/17/95

Replicate 1 Time: 15:23
Peak Area (A-s): 0.253 Peak Height (A): 0.465
Background Pk Area (A-s): 0.148 Background Pk Height (A): 0.084
Blank Corrected Pk Area (A-s): 0.250
Concentration (ug/L): 36.37

Replicate 2 Time: 15:26
Peak Area (A-s): 0.257 Peak Height (A): 0.475
Background Pk Area (A-s): 0.146 Background Pk Height (A): 0.085
Blank Corrected Pk Area (A-s): 0.254
Concentration (ug/L): 36.92

Mean Conc (ug/L): 36.65 SD: 0.387 RSD(%): 1.06

Recovery is 82.9%

~~~~~~

As ID: 9504G094-004S40 Seq. No.: 00054 A/S Pos.: 23 Date: 04/17/95

Replicate 1 Time: 15:29
Peak Area (A-s): 0.167 Peak Height (A): 0.281
Background Pk Area (A-s): 0.156 Background Pk Height (A): 0.093
Blank Corrected Pk Area (A-s): 0.165
Concentration (ug/L): 23.54

Replicate 2 Time: 15:32
Peak Area (A-s): 0.164 Peak Height (A): 0.270
Background Pk Area (A-s): 0.159 Background Pk Height (A): 0.093
Blank Corrected Pk Area (A-s): 0.161
~~~~~~

As ID: 95GF781-LC1 Seq. No.: 00058 A/S Pos.: 25 Date: 04/17/95

Replicate 1 Time: 15:53
Peak Area (A-s): 0.266 Peak Height (A): 0.642
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.263
Concentration (ug/L): 38.28

Replicate 2 Time: 15:56
Peak Area (A-s): 0.254 Peak Height (A): 0.513
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.251
Concentration (ug/L): 36.41

Mean Conc (ug/L): 37.34 93.4% SD: 1.321 RSD(%): 3.54

As ID: 95GF781-LC1 Seq. No.: 00059 A/S Pos.: 25 Date: 04/17/95

Replicate 1 Time: 15:59
Peak Area (A-s): 0.375 Peak Height (A): 0.768
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): 0.373
Concentration (ug/L): 54.64

Replicate 2 Time: 16:02
Peak Area (A-s): 0.370 Peak Height (A): 0.794
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.368
Concentration (ug/L): 53.90

Mean Conc (ug/L): 54.27 SD: 0.524 RSD(%): 0.97

Recovery is 84.6%

As ID: ACCV Seq. No.: 00060 A/S Pos.: 2 Date: 04/17/95

Replicate 1 Time: 16:05
Peak Area (A-s): 0.245 Peak Height (A): 0.543
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): 0.242
Concentration (ug/L): 35.11

Replicate 2 Time: 16:08
Peak Area (A-s): 0.243 Peak Height (A): 0.535
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.240
Concentration (ug/L): 34.78

Mean Conc (ug/L): 34.94 SD: 0.228 RSD(%): 0.65

QC sample is within range 31.5 - 38.5

As ID: CCB Seq. No.: 00061 A/S Pos.: 3 Date: 04/17/95

Replicate 1 Time: 16:11

Peak Area (A-s): -0.003 Peak Height (A): 0.017
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): -0.006
Concentration (ug/L): -1.94

Replicate 2 Time: 16:14
Peak Area (A-s): 0.005 Peak Height (A): 0.012
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.80

Mean Conc (ug/L): -1.37 SD: 0.805 RSD(%): 58.61

QC sample is within range -3.0 - 2.0

~~~~~~

As ID: 95GF781-LC2 Seq. No.: 00062 A/S Pos.: 26 Date: 04/17/95

Replicate 1 Time: 16:17
Peak Area (A-s): 0.258 Peak Height (A): 0.609
Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.255
Concentration (ug/L): 37.02

Replicate 2 Time: 16:20
Peak Area (A-s): 0.246 Peak Height (A): 0.548
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.243
Concentration (ug/L): 35.32

Mean Conc (ug/L): 36.17 90.4% SD: 1.207 RSD(%): 3.34

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As ID: 95GF781-LC2 Seq. No.: 00063 A/S Pos.: 26 Date: 04/17/95

Replicate 1 Time: 16:23
Peak Area (A-s): 0.381 Peak Height (A): 0.777
Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.378
Concentration (ug/L): 55.49

Replicate 2 Time: 16:26
Peak Area (A-s): 0.379 Peak Height (A): 0.797
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.376
Concentration (ug/L): 55.11

Mean Conc (ug/L): 55.30 SD: 0.269 RSD(%): 0.49

Recovery is 95.6%

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As ID: 9504G321-001 5X Seq. No.: 00064 A/S Pos.: 27 Date: 04/17/95

Replicate 1 Time: 16:29
Peak Area (A-s): 0.073 Peak Height (A): 0.114
Background Pk Area (A-s): 0.388 Background Pk Height (A): 0.219
Blank Corrected Pk Area (A-s): 0.070
Concentration (ug/L): 9.40

BPH 4/18/95

322
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Mean Conc (ug/L): 33.68 SD: 1.389 RSD(%): 4.12

Recovery is 81.6%

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As ID: 9504G321-001S5X Seq. No.: 00068 A/S Pos.: 29 Date: 04/17/95

Replicate 1 Time: 16:53
Peak Area (A-s): 0.129 Peak Height (A): 0.184
Background Pk Area (A-s): 0.449 Background Pk Height (A): 0.223
Blank Corrected Pk Area (A-s): 0.126
Concentration (ug/L): 17.76

Replicate 2 Time: 16:56
Peak Area (A-s): 0.120 Peak Height (A): 0.176
Background Pk Area (A-s): 0.394 Background Pk Height (A): 0.214
Blank Corrected Pk Area (A-s): 0.118
Concentration (ug/L): 16.52

85.70 - 140.00

Mean Conc (ug/L): 17.14 SD: 0.879 RSD(%): 5.13

~~~~~~

As ID: 9504G321-001S5X Seq. No.: 00069 A/S Pos.: 29 Date: 04/17/95

Replicate 1 Time: 16:59
Peak Area (A-s): 0.237 Peak Height (A): 0.451
Background Pk Area (A-s): 0.427 Background Pk Height (A): 0.264
Blank Corrected Pk Area (A-s): 0.234
Concentration (ug/L): 33.98

Replicate 2 Time: 17:02
Peak Area (A-s): 0.241 Peak Height (A): 0.445
Background Pk Area (A-s): 0.423 Background Pk Height (A): 0.264
Blank Corrected Pk Area (A-s): 0.238
Concentration (ug/L): 34.50

Mean Conc (ug/L): 34.24 SD: 0.366 RSD(%): 1.07

Recovery is 85.5%

~~~~~~

As ID: ACCV Seq. No.: 00070 A/S Pos.: 2 Date: 04/17/95

Replicate 1 Time: 17:05
Peak Area (A-s): 0.251 Peak Height (A): 0.484
Background Pk Area (A-s): 0.103 Background Pk Height (A): 0.107
Blank Corrected Pk Area (A-s): 0.248
Concentration (ug/L): 35.97

Replicate 2 Time: 17:08
Peak Area (A-s): 0.248 Peak Height (A): 0.513
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.245
Concentration (ug/L): 35.61

Mean Conc (ug/L): 35.79 SD: 0.252 RSD(%): 0.70

QC sample is within range 31.5 - 38.5

BDL 4/18/95

323
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As ID: CCB Seq. No.: 00071 A/S Pos.: 3 Date: 04/17/95

Replicate 1 Time: 17:10
Peak Area (A-s): 0.003 Peak Height (A): 0.014
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -1.09

Replicate 2 Time: 17:13
Peak Area (A-s): -0.004 Peak Height (A): 0.013
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): -0.007
Concentration (ug/L): -2.06

Mean Conc (ug/L): -1.57 SD: 0.684 RSD(%): 43.45

QC sample is within range -3.0 - 2.0

As ID: 9504G321-002 5X Seq. No.: 00072 A/S Pos.: 30 Date: 04/17/95

Replicate 1 Time: 17:16
Peak Area (A-s): 0.111 Peak Height (A): 0.177
Background Pk Area (A-s): 0.404 Background Pk Height (A): 0.230
Blank Corrected Pk Area (A-s): 0.108
Concentration (ug/L): 15.07

Replicate 2 Time: 17:19
Peak Area (A-s): 0.106 Peak Height (A): 0.164
Background Pk Area (A-s): 0.498 Background Pk Height (A): 0.280
Blank Corrected Pk Area (A-s): 0.103
Concentration (ug/L): 14.36

Mean Conc (ug/L): 14.72 SD: 0.500 RSD(%): 3.40

As ID: 9504G321-002 5X Seq. No.: 00073 A/S Pos.: 30 Date: 04/17/95

Replicate 1 Time: 17:22
Peak Area (A-s): 0.231 Peak Height (A): 0.434
Background Pk Area (A-s): 0.520 Background Pk Height (A): 0.349
Blank Corrected Pk Area (A-s): 0.228
Concentration (ug/L): 33.05

Replicate 2 Time: 17:25
Peak Area (A-s): 0.232 Peak Height (A): 0.435
Background Pk Area (A-s): 0.504 Background Pk Height (A): 0.339
Blank Corrected Pk Area (A-s): 0.229
Concentration (ug/L): 33.21

Mean Conc (ug/L): 33.13 SD: 0.115 RSD(%): 0.35

Recovery is 92.1%

As ID: 9504G321-003 5X Seq. No.: 00074 A/S Pos.: 31 Date: 04/17/95

Replicate 1 Time: 17:28

Peak Area (A-s): 0.171 Peak Height (A): 0.347
Background Pk Area (A-s): 0.437 Background Pk Height (A): 0.281
Blank Corrected Pk Area (A-s): 0.169
Concentration (ug/L): 24.14

Mean Conc (ug/L): 23.59 SD: 0.778 RSD(%): 3.30

Recovery is 86.2%

~~~~~~

As ID: 9504G321-005 5X Seq. No.: 00078 A/S Pos.: 33 Date: 04/17/95

Replicate 1 Time: 17:52
Peak Area (A-s): 0.089 Peak Height (A): 0.126
Background Pk Area (A-s): 0.413 Background Pk Height (A): 0.241
Blank Corrected Pk Area (A-s): 0.086
Concentration (ug/L): 11.76

Replicate 2 Time: 17:55
Peak Area (A-s): 0.094 Peak Height (A): 0.131
Background Pk Area (A-s): 0.428 Background Pk Height (A): 0.238
Blank Corrected Pk Area (A-s): 0.091
Concentration (ug/L): 12.60

Mean Conc (ug/L): 12.18 SD: 0.596 RSD(%): 4.89

~~~~~~

As ID: 9504G321-005 5X Seq. No.: 00079 A/S Pos.: 33 Date: 04/17/95

Replicate 1 Time: 17:58
Peak Area (A-s): 0.215 Peak Height (A): 0.369
Background Pk Area (A-s): 0.435 Background Pk Height (A): 0.282
Blank Corrected Pk Area (A-s): 0.212
Concentration (ug/L): 30.64

Replicate 2 Time: 18:01
Peak Area (A-s): 0.208 Peak Height (A): 0.377
Background Pk Area (A-s): 0.427 Background Pk Height (A): 0.277
Blank Corrected Pk Area (A-s): 0.205
Concentration (ug/L): 29.54

Mean Conc (ug/L): 30.09 SD: 0.773 RSD(%): 2.57

Recovery is 89.5%

~~~~~~

As ID: ACCV Seq. No.: 00080 A/S Pos.: 2 Date: 04/17/95

Replicate 1 Time: 18:04
Peak Area (A-s): 0.252 Peak Height (A): 0.485
Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.110
Blank Corrected Pk Area (A-s): 0.249
Concentration (ug/L): 36.21

Replicate 2 Time: 18:07
Peak Area (A-s): 0.246 Peak Height (A): 0.546
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.244
Concentration (ug/L): 35.34
~~~~~~

Mean Conc (ug/L): 35.77 SD: 0.617 RSD(%): 1.73

QC sample is within range 31.5 - 38.5 ✓

~~~~~~

As ID: CCB Seq. No.: 00081 A/S Pos.: 3 Date: 04/17/95

Replicate 1 Time: 18:10
Peak Area (A-s): 0.010 Peak Height (A): 0.016
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): -0.03

Replicate 2 Time: 18:13
Peak Area (A-s): 0.014 Peak Height (A): 0.019
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 0.66

Mean Conc (ug/L): 0.31 SD: 0.490 RSD(%): 156.17

QC sample is within range -3.0 - 2.0 ✓

~~~~~~

As ID: 9504G321-006 5X Seq. No.: 00082 A/S Pos.: 34 Date: 04/17/95

Replicate 1 Time: 18:16
Peak Area (A-s): 0.209 Peak Height (A): 0.312
Background Pk Area (A-s): 0.394 Background Pk Height (A): 0.225
Blank Corrected Pk Area (A-s): 0.206
Concentration (ug/L): 29.72

Rerun 25X AFK 4/17/95

Replicate 2 Time: 18:19
Peak Area (A-s): 0.224 Peak Height (A): 0.309
Background Pk Area (A-s): 0.478 Background Pk Height (A): 0.267
Blank Corrected Pk Area (A-s): 0.221
Concentration (ug/L): 32.02

Mean Conc (ug/L): 30.87 SD: 1.628 RSD(%): 5.27

~~~~~~

As ID: 9504G321-006 5X Seq. No.: 00083 A/S Pos.: 34 Date: 04/17/95

Replicate 1 Time: 18:22
Peak Area (A-s): 0.332 Peak Height (A): 0.554
Background Pk Area (A-s): 0.490 Background Pk Height (A): 0.315
Blank Corrected Pk Area (A-s): 0.329
Concentration (ug/L): 48.15

Replicate 2 Time: 18:25
Peak Area (A-s): 0.327 Peak Height (A): 0.541
Background Pk Area (A-s): 0.492 Background Pk Height (A): 0.322
Blank Corrected Pk Area (A-s): 0.325
Concentration (ug/L): 47.45

Mean Conc (ug/L): 47.80 SD: 0.495 RSD(%): 1.03

Recovery is 84.6%
~~~~~~

Blank Corrected Pk Area (A-s): 0.149
Concentration (ug/L): 21.15

Replicate 2 Time: 18:48
Peak Area (A-s): 0.151 Peak Height (A): 0.256
Background Pk Area (A-s): 0.088 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.148
Concentration (ug/L): 21.07

Mean Conc (ug/L): 21.11 SD: 0.057 RSD(%): 0.27

Recovery is 102.3%

~~~~~~

As ID: 9504G094-004R40 Seq. No.: 00088 A/S Pos.: 37 Date: 04/17/95

Replicate 1 Time: 18:51
Peak Area (A-s): 0.160 Peak Height (A): 0.229
Background Pk Area (A-s): 0.148 Background Pk Height (A): 0.079
Blank Corrected Pk Area (A-s): 0.158
Concentration (ug/L): 22.48

F755/STD/SOIL PES

Replicate 2 Time: 18:54
Peak Area (A-s): 0.153 Peak Height (A): 0.232
Background Pk Area (A-s): 0.171 Background Pk Height (A): 0.093
Blank Corrected Pk Area (A-s): 0.151
Concentration (ug/L): 21.44 ✓

Mean Conc (ug/L): 21.96 SD: 0.737 RSD(%): 3.35

~~~~~~

As ID: 9504G094-004R40 Seq. No.: 00089 A/S Pos.: 37 Date: 04/17/95

Replicate 1 Time: 18:57
Peak Area (A-s): 0.278 Peak Height (A): 0.475
Background Pk Area (A-s): 0.170 Background Pk Height (A): 0.085
Blank Corrected Pk Area (A-s): 0.276
Concentration (ug/L): 40.12

Replicate 2 Time: 19:00
Peak Area (A-s): 0.276 Peak Height (A): 0.475
Background Pk Area (A-s): 0.173 Background Pk Height (A): 0.087
Blank Corrected Pk Area (A-s): 0.273
Concentration (ug/L): 39.81 ✓

Mean Conc (ug/L): 39.97 SD: 0.219 RSD(%): 0.55

Recovery is 90.0% ✓

~~~~~~

As ID: ACCV Seq. No.: 00090 A/S Pos.: 2 Date: 04/17/95

Replicate 1 Time: 19:03
Peak Area (A-s): 0.247 Peak Height (A): 0.483
Background Pk Area (A-s): 0.074 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.245
Concentration (ug/L): 35.48

Replicate 2 Time: 19:06
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Peak Area (A-s): 0.247 Peak Height (A): 0.526
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.244
Concentration (ug/L): 35.46

Mean Conc (ug/L): 35.47 SD: 0.016 RSD(%): 0.05

QC sample is within range 31.5 - 38.5

~~~~~~

As ID: CCB Seq. No.: 00091 A/S Pos.: 3 Date: 04/17/95

Replicate 1 Time: 19:09
Peak Area (A-s): 0.009 Peak Height (A): 0.020
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): -0.21

Replicate 2 Time: 19:12
Peak Area (A-s): 0.007 Peak Height (A): 0.013
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): -0.48

Mean Conc (ug/L): -0.35 SD: 0.194 RSD(%): 56.18

QC sample is within range -3.0 - 2.0

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As ID: 9504G321-008 Seq. No.: 00092 A/S Pos.: 38 Date: 04/17/95

Replicate 1 Time: 19:15
Peak Area (A-s): 0.048 Peak Height (A): 0.063
Background Pk Area (A-s): 0.217 Background Pk Height (A): 0.096
Blank Corrected Pk Area (A-s): 0.046
Concentration (ug/L): 5.74

Replicate 2 Time: 19:18
Peak Area (A-s): 0.045 Peak Height (A): 0.065
Background Pk Area (A-s): 0.253 Background Pk Height (A): 0.102
Blank Corrected Pk Area (A-s): 0.042
Concentration (ug/L): 5.20

Mean Conc (ug/L): 5.47 SD: 0.380 RSD(%): 6.94

~~~~~~

As ID: 9504G321-008 Seq. No.: 00093 A/S Pos.: 38 Date: 04/17/95

Replicate 1 Time: 19:21
Peak Area (A-s): 0.173 Peak Height (A): 0.271
Background Pk Area (A-s): 0.259 Background Pk Height (A): 0.119
Blank Corrected Pk Area (A-s): 0.170
Concentration (ug/L): 24.37

Replicate 2 Time: 19:24
Peak Area (A-s): 0.170 Peak Height (A): 0.268
Background Pk Area (A-s): 0.255 Background Pk Height (A): 0.115
Blank Corrected Pk Area (A-s): 0.167
Concentration (ug/L): 23.96
~~~~~~

Mean Conc (ug/L): 24.16 SD: 0.291 RSD(%): 1.21

Recovery is 93.5%

~~~~~~

As ID: ACCV Seq. No.: 00094 A/S Pos.: 2 Date: 04/17/95

Replicate 1 Time: 19:27
Peak Area (A-s): 0.251 Peak Height (A): 0.513
Background Pk Area (A-s): 0.071 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.249
Concentration (ug/L): 36.10

Replicate 2 Time: 19:30
Peak Area (A-s): 0.244 Peak Height (A): 0.534
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.242
Concentration (ug/L): 35.04

Mean Conc (ug/L): 35.57 SD: 0.749 RSD(%): 2.11

QC sample is within range 31.5 - 38.5

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As ID: CCB Seq. No.: 00095 A/S Pos.: 3 Date: 04/17/95

Replicate 1 Time: 19:33
Peak Area (A-s): -0.000 Peak Height (A): 0.014
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.51

Replicate 2 Time: 19:36
Peak Area (A-s): 0.001 Peak Height (A): 0.013
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -1.30

Mean Conc (ug/L): -1.40 SD: 0.152 RSD(%): 10.85

QC sample is within range -3.0 - 2.0

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As ID: 9504G321-001 5X Seq. No.: 00097 A/S Pos.: 6 Date: 04/17/95

Replicate 1 Time: 19:41
Peak Area (A-s): 0.074 Peak Height (A): 0.124
Background Pk Area (A-s): 0.365 Background Pk Height (A): 0.190
Blank Corrected Pk Area (A-s): 0.071
Concentration (ug/L): 9.49

Rerun OK PFK 4/17/96

Replicate 2 Time: 19:44
Peak Area (A-s): 0.065 Peak Height (A): 0.126
Background Pk Area (A-s): 0.462 Background Pk Height (A): 0.232
Blank Corrected Pk Area (A-s): 0.062
Concentration (ug/L): 8.18

Mean Conc (ug/L): 8.84 SD: 0.926 RSD(%): 10.48
~~~~~~

Peak Area (A-s): 0.169 Peak Height (A): 0.291
Background Pk Area (A-s): 0.267 Background Pk Height (A): 0.149
Blank Corrected Pk Area (A-s): 0.166
Concentration (ug/L): 23.79

Mean Conc (ug/L): 23.67 SD: 0.163 RSD(%): 0.69

Recovery is 86.9%

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As ID: ACCV Seq. No.: 00105 A/S Pos.: 2 Date: 04/17/95

Replicate 1 Time: 20:28
Peak Area (A-s): 0.255 Peak Height (A): 0.472
Background Pk Area (A-s): 0.082 Background Pk Height (A): 0.087
Blank Corrected Pk Area (A-s): 0.252
Concentration (ug/L): 36.65

Replicate 2 Time: 20:31
Peak Area (A-s): 0.249 Peak Height (A): 0.517
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.246
Concentration (ug/L): 35.70

Mean Conc (ug/L): 36.17 SD: 0.674 RSD(%): 1.86

QC sample is within range 31.5 - 38.5

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As ID: CCB Seq. No.: 00106 A/S Pos.: 3 Date: 04/17/95

Replicate 1 Time: 20:34
Peak Area (A-s): 0.005 Peak Height (A): 0.016
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.77

Replicate 2 Time: 20:37
Peak Area (A-s): 0.001 Peak Height (A): 0.010
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.41

Mean Conc (ug/L): -1.09 SD: 0.455 RSD(%): 41.63

QC sample is within range -3.0 - 2.0

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As ID: 9504G321-006 25 Seq. No.: 00107 A/S Pos.: 10 Date: 04/17/95

Replicate 1 Time: 20:40
Peak Area (A-s): 0.052 Peak Height (A): 0.076
Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.049
Concentration (ug/L): 6.22

Replicate 2 Time: 20:43
Peak Area (A-s): 0.052 Peak Height (A): 0.075
Background Pk Area (A-s): 0.116 Background Pk Height (A): 0.066
~~~~~~

As ID: 9504G321-001R10 Seq. No.: 00111 A/S Pos.: 12 Date: 04/17/95

Replicate 1 Time: 21:04
Peak Area (A-s): 0.004 Peak Height (A): 0.015
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.89

PFK 4/17/95

Replicate 2 Time: 21:07
Peak Area (A-s): -0.006 Peak Height (A): 0.012
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): -0.009
Concentration (ug/L): -2.42

Mean Conc (ug/L): -1.66 SD: 1.082 RSD(%): 65.37

As ID: ACCV Seq. No.: 00113 A/S Pos.: 2 Date: 04/17/95

Replicate 1 Time: 21:17
Peak Area (A-s): 0.248 Peak Height (A): 0.518
Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.245
Concentration (ug/L): 35.53

Replicate 2 Time: 21:20
Peak Area (A-s): 0.245 Peak Height (A): 0.500
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.243
Concentration (ug/L): 35.21

Mean Conc (ug/L): 35.37 SD: 0.227 RSD(%): 0.64

As ID: CCB Seq. No.: 00114 A/S Pos.: 3 Date: 04/17/95

Replicate 1 Time: 21:23
Peak Area (A-s): 0.000 Peak Height (A): 0.013
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.47

Replicate 2 Time: 21:26
Peak Area (A-s): 0.010 Peak Height (A): 0.017
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.007
Concentration (ug/L): -0.08

Mean Conc (ug/L): -0.78 SD: 0.990 RSD(%): 127.69

As ID: 9504G321-001 10 Seq. No.: 00115 A/S Pos.: 11 Date: 04/17/95

Replicate 1 Time: 21:29
Peak Area (A-s): 0.038 Peak Height (A): 0.058
Background Pk Area (A-s): 0.187 Background Pk Height (A): 0.102
Blank Corrected Pk Area (A-s): 0.035
Concentration (ug/L): 4.19

Mean Conc (ug/L): 27.50 SD: 0.680 RSD(%): 2.47

Recovery is 95.7%

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As ID: 9504G321-001S10 Seq. No.: 00119 A/S Pos.: 13 Date: 04/17/95

Replicate 1 Time: 21:52
Peak Area (A-s): 0.070 Peak Height (A): 0.088
Background Pk Area (A-s): 0.217 Background Pk Height (A): 0.109
Blank Corrected Pk Area (A-s): 0.067
Concentration (ug/L): 8.96

Replicate 2 Time: 21:55
Peak Area (A-s): 0.073 Peak Height (A): 0.083
Background Pk Area (A-s): 0.215 Background Pk Height (A): 0.125
Blank Corrected Pk Area (A-s): 0.070
Concentration (ug/L): 9.42

91.9 - 46.0 | 40.00 = 113.2%

Mean Conc (ug/L): 9.19 SD: 0.322 RSD(%): 3.51

~~~~~~

As ID: 9504G321-001S10 Seq. No.: 00120 A/S Pos.: 13 Date: 04/17/95

Replicate 1 Time: 21:58
Peak Area (A-s): 0.193 Peak Height (A): 0.279
Background Pk Area (A-s): 0.214 Background Pk Height (A): 0.111
Blank Corrected Pk Area (A-s): 0.190
Concentration (ug/L): 27.39

Replicate 2 Time: 22:01
Peak Area (A-s): 0.200 Peak Height (A): 0.280
Background Pk Area (A-s): 0.207 Background Pk Height (A): 0.114
Blank Corrected Pk Area (A-s): 0.197
Concentration (ug/L): 28.44

Mean Conc (ug/L): 27.91 SD: 0.744 RSD(%): 2.66

Recovery is 93.6%

~~~~~~

As ID: ACCV Seq. No.: 00121 A/S Pos.: 2 Date: 04/17/95

Replicate 1 Time: 22:04
Peak Area (A-s): 0.253 Peak Height (A): 0.474
Background Pk Area (A-s): 0.073 Background Pk Height (A): 0.083
Blank Corrected Pk Area (A-s): 0.250
Concentration (ug/L): 36.35

Replicate 2 Time: 22:07
Peak Area (A-s): 0.254 Peak Height (A): 0.532
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.251
Concentration (ug/L): 36.46

Mean Conc (ug/L): 36.41 SD: 0.081 RSD(%): 0.22

QC sample is within range 31.5 - 38.5
~~~~~~

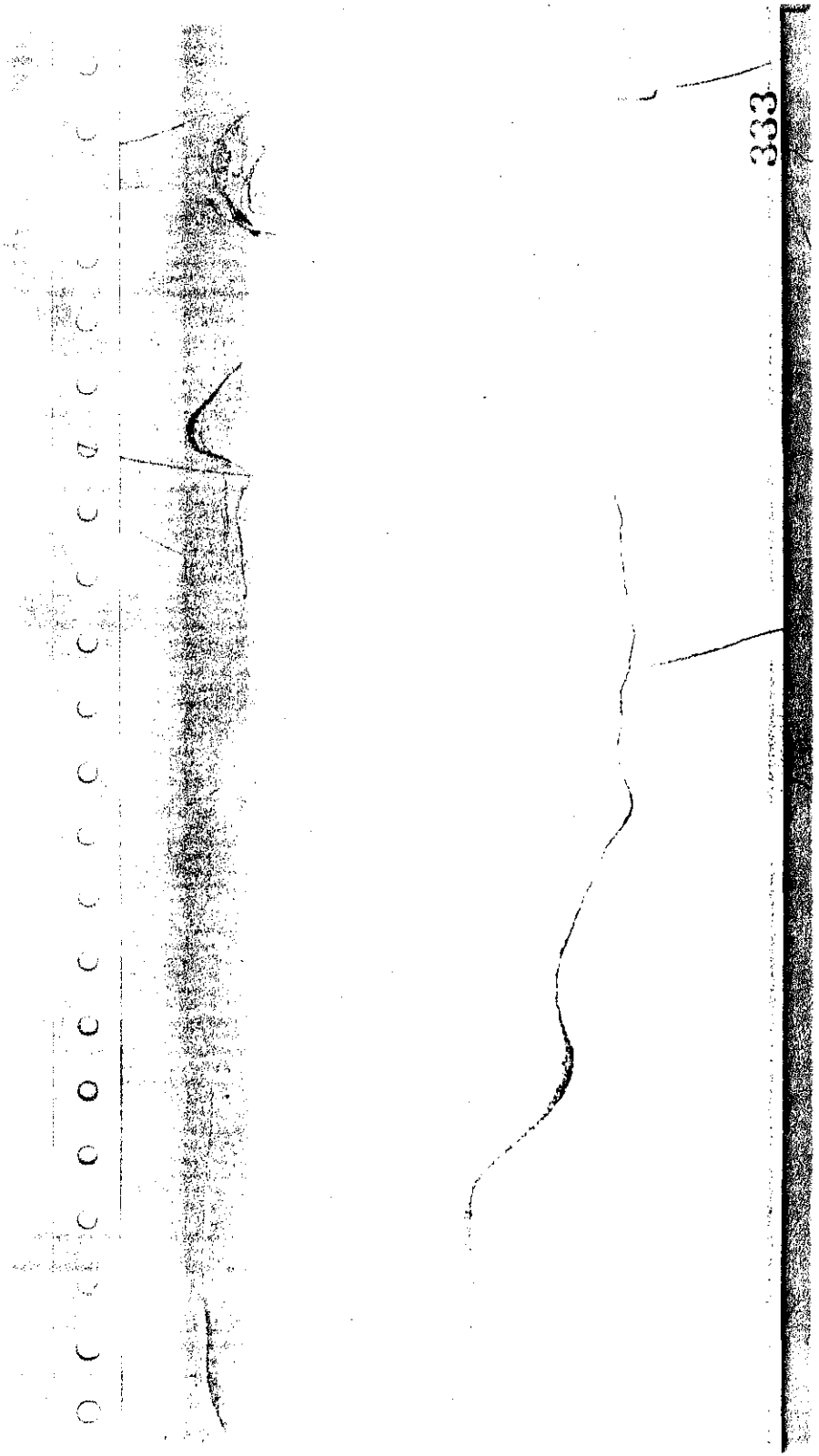
As ID: CCB 2 Seq. No.: 00122 A/S Pos.: 3 Date: 04/17/95

Replicate 1 Time: 22:10
Peak Area (A-s): 0.005 Peak Height (A): 0.015
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.79

Replicate 2 Time: 22:13
Peak Area (A-s): 0.004 Peak Height (A): 0.014
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.89

Mean Conc (ug/L): -0.84 SD: 0.068 RSD(%): 8.10

QC sample is within range -3.0 - 2.0 ✓



Element File: ASMSA.GEL Element: As Wavelength: 193.7
Date: 04/17/95 Time: 22:23 Slit: 0.70 L
Data File: AS0417X1.DAT ID/Wt File: AS041701.IDW Lamp Current: 0
Technique: HGA Calib. Type: Meth. of Add. Energy: 41
Remark 1: Standards 1276-74-6
Remark 2: ICV,CCV'S 1276-73-7
Remark 3: 4 ul of Pd & Mg matrix modifier
Remark 4: LAMP SERIAL #225,AS EDL,IDL= 1.9
Remark 5: ANALYST-BRYAN HOST/PAUL KOLARCZYK

As ID: ACCV Seq. No.: 00123 A/S Pos.: 2 Date: 04/17/95

$X' = 36.46$

Replicate 1 Time: 22:23
Peak Area (A-s): 0.254 Peak Height (A): 0.438
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.254

As ID: CCB Seq. No.: 00124 A/S Pos.: 3 Date: 04/17/95

$X' = -0.16$

Replicate 1 Time: 22:26
Peak Area (A-s): 0.009 Peak Height (A): 0.017
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.009

As ID: 9504G211-012 Seq. No.: 00125 A/S Pos.: 14 Date: 04/17/95

Replicate 1 Time: 22:29
Peak Area (A-s): 0.093 Peak Height (A): 0.104
Background Pk Area (A-s): 0.293 Background Pk Height (A): 0.089
Blank Corrected Pk Area (A-s): 0.093

As ID: S10.00 Seq. No.: 00126 A/S Pos.: 14 Date: 04/17/95

Replicate 1 Time: 22:32
Peak Area (A-s): 0.138 Peak Height (A): 0.173
Background Pk Area (A-s): 0.343 Background Pk Height (A): 0.138
Blank Corrected Pk Area (A-s): 0.138

As ID: S20.00 Seq. No.: 00127 A/S Pos.: 14 Date: 04/17/95

Replicate 1 Time: 22:35
Peak Area (A-s): 0.172 Peak Height (A): 0.211
Background Pk Area (A-s): 0.343 Background Pk Height (A): 0.141
Blank Corrected Pk Area (A-s): 0.172

As ID: S30.00 Seq. No.: 00128 A/S Pos.: 14 Date: 04/17/95

Replicate 1 Time: 22:38
Peak Area (A-s): 0.218 Peak Height (A): 0.271
Background Pk Area (A-s): 0.345 Background Pk Height (A): 0.134
Blank Corrected Pk Area (A-s): 0.218

As ID: 9504G211-012 Seq. No.: 00125 A/S Pos.: 14 Date: 04/17/95

$CC = 0.9984$ $B = 0.0939$
$M = 0.0041$

Concentration (ug/L): 22.96

$X' = -22.96$ 122.00

$X' = -22.96$ 23.00

Correlation coefficient: ~~0.99854~~ ~~Slope: 0.0041~~ ~~Int: 0.094~~

RFK 4/18/95

As ID: ACCV Seq. No.: 00129 A/S Pos.: 2 Date: 04/17/95

$X' = 36.32$

Replicate 1 Time: 22:41
Peak Area (A-s): 0.253 Peak Height (A): 0.440
Background Pk Area (A-s): 0.080 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.253

As ID: CCB Seq. No.: 00130 A/S Pos.: 3 Date: 04/17/95

$X' = -0.61$

Replicate 1 Time: 22:44
Peak Area (A-s): 0.006 Peak Height (A): 0.015
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.006

(2)

IDL = 1.2 ug/L

run 1

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WESTON Analytics AA3.1 Report

Data File:PB0411S1 Date collected: 95/04/11 Time:
Method File: Date of Report: Time:
Analyst: BPH/PFK Remarks:

	PB ppb				
AICV	26.30	MPBTO	1		10:50
ICB	-0.69	MPBTO	1		10:55
CRA	2.70	MPBTO	1		11:00
ACCV 1	36.61	MPBTO	1		11:05
CCB	-0.54	MPBTO	1		11:11
9504G133-012	-0.10	MPBTO	1	95GF763	11:16
9504G133-013	0.09	MPBTO	1		11:26
9504G133-014	0.19	MPBTO	1		11:36
9504G133-016	-0.13	MPBTO	1		11:45
ACCV 2	33.77	MPBTO	1		11:55
CCB	-0.60	MPBTO	1		12:00
9504G133-017	-0.07	MPBTO	1		12:05
9504G133-018	1.45	MPBTO	1		12:15
95GF762-MB1	0.32	MPBTO	1	95GF762	12:25
95GF762-LC1	19.18	MPBTO	1		12:35
ACCV 3	33.71	MPBTO	1		12:45
CCB	-0.38	MPBTO	1		12:50
95GF762-LC2	17.65	MPBTO	1		12:55
9504L478-001	0.01	MPBTO	1		13:05
9504L478-001R	-0.27	MPBTO	1		13:15
9504L478-001S	9.59	MPBTO	1		13:25
ACCV 4	33.79	MPBTO	1		13:35
CCB	-0.65	MPBTO	1		13:40
ACCV 5	34.07	MPBTO	1		14:25
CCB	0.16	MPBTO	1		14:30
9504G183-001	1.65	MPBTO	1		14:45
9504G183-001R	1.60	MPBTO	1		14:55
9504G183-001S	19.89	MPBTO	1		15:05
ACCV 6	33.04	MPBTO	1		15:15
CCB	-0.61	MPBTO	1		15:20
9504G183-003	0.20	MPBTO	1		15:35
9504G192-003	9.53	MPBTO	1		15:45
9504G192-003R	8.49	MPBTO	1		15:55
ACCV 7	32.66	MPBTO	1		16:05
CCB	-0.77	MPBTO	1		16:10
9504G192-003S	23.29	MPBTO	1		16:15
95GF765-LC1	16.82	MPBTO	1	95GF765	16:35
95GF765-LC2	17.63	MPBTO	1		16:45
ACCV 8	33.20	MPBTO	1		16:55
CCB	-0.44	MPBTO	1		17:00
9504G173-002	-0.38	MPBTO	1		17:15
9504G173-004	5.34	MPBTO	1		17:25
9504G172-001	5.45	MPBTO	1		17:35
ACCV 9	34.01	MPBTO	1		17:45
CCB	-0.08	MPBTO	1		17:50
9504G172-002	-0.53	MPBTO	1		17:55
ACCV 10	32.79	MPBTO	1		18:05
CCB	-0.42	MPBTO	1		18:10
9504G172-002R	-0.36	MPBTO	1		18:20
9504G172-002S	16.32	MPBTO	1		18:30
95GF767-MB1	0.06	MPBTO	1	95GF767	18:49
ACCV 11	33.65	MPBTO	1		18:59
CCB	-0.43	MPBTO	1		19:04

updated 4/12/95

[signature] 4/12/95

[signature] 4/12/95

WESTON Environmental Metrics, Inc.
AA3 - PE5100 GFAA Sample Analysis Log

OP No. 21-21G-1534
Rev. 01; Eff. Date 03/06/95

Filename: PB0411R1

ent: PB Lamp: EDL Current: 10 Energy: 59

Prep Batch / Matrix: F763 QC: a. Standard b. CLP

Autosampler Location	QC / Sample ID	Dilution	Rerun	MSA	Comments
1	STD				
2	ICV/CCV				
3	ICB/CCB				
4	CRA				
5	STD				
6	9504G133-012				F763/CLP/H2O
7	013				
8	014				
9	016				
10	017				
11	018				
12	95GF762-MB1				F762/STD/H2O
13	LC1				
14	LC2				
15	9504L478-001				
16	(R)				
17	(S)				
18	9504G177-001	5X	✓		
	002	5X	✓		
	003	10X	✓		
21	004	5X	✓		
22	005	5X	✓		
23	9504G183-001				
24	(R)				
25	(S)				
26	002	2X	✓		
27	003				
28	9504G192-003				
29	(R)				
30	(S)				
31	95GF765-MB1		✓		F765/STD/H2O
32	LC1				
33	LC2				
34	9504G170-001	5X	✓		
35	9504G173-002				
36	004				
37	9504G172-001				
38	002				
39	25.00 PPB QC SOLN.				
40	BLANK H2O				

Analyst: [signature] / [signature] Date: 4/11/95

Reviewer: [signature] Date: 4/12/95

Page: 64 4/4/95

PJK

Cont on Page 65

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WESTON Environmental Metrics, Inc.
AA3 - PE5100 GFAA Sample Analysis Log

OP No. 21-21G-
Rev. 01; Eff. Date 03/0

Filename: PbG411R1

Element: Pb Lamp: EDL Current: 10 Energy: 39

Prep Batch / Matrix: F765 QC: (a) Standard b. CLP

Autosampler Location	QC / Sample ID	Dilution	Rerun	MSA	Comments
1	STD				
2	ICV/CCV				
3	ICB/CCB				
4	CRA				
5	STD				
6	9504G172 -002R				F765/STD/H2O
7	-002S				
8	9504G132 -010(R)				D.W.
9	956F767 - MB1				F767/CLP/H2O
10	-LC1		✓		
11	9504G211 -001				
12	-001R				
13	-001S				
14	-002 (SOL)				
15	-002R				
16	-002S				
17	-003				
18	-004 (SOL)				
19	-005				
20	-006 (SOL)				
21	-007				
22	-008 (SOL)				
23	-009				
24	-010 (SOL)				
25	956F768 - MB1				F768/CLP SOIL
26	-LC1				
27	9504G211 -011				
28	-012				
29	-013				
30	-014				
31	-015 PEK 4/11/95				
32	-016 5R				
33	-015S				
34	9504G177 -001 (5x)				F762/STD/H2O
35	-002 (5x)				
36	-003 (10x)				
37	-004 (5x)				
38	-005 (3x)				
39	ICV 25.00 ppb				
40	Blank H2O				

Analyst: Paul F. Kolarczyk Date: 4/11/95

Reviewer: [signature] Date: 4/12/95

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Element File: PB_CLP.GEL
Element: Pb Analyst: BPH/PFK
Print Data: Main+Suppl. Peak Storage: None
Remarks:
Pb Matrix Modifier = 5uL Pd(NO3)2 & Mg(NO3)2
ANALYST---BRYAN HOST/PAUL KOLARCZYK
Standards 1276-74-6 ; QC 1276-73-7
EDL SERIAL #7490
IDL 1.2

INSTRUMENT: 5100 Technique: HGA
Wavelength: 283.3 Peak Slit: 0.70 Low
Signal Type: Zeeman AA Signal Measurement: Peak Area
Read Time: 5.0 Read Delay: 0.0 BOC Time: 1
Sample Replicates: 2 if <= 50 ug/L, 2 if > 50.1 ug/L, else 2
Standard Replicates: 2 Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	S0.0		40	20	8	5	
Standard 1	S3.0	3.00	4	20	8	5	
Standard 2	S10.0	10.00	5	4	24	5	
Standard 3	S30.0	30.00	5	12	16	5	
Standard 4	S50.0	50.00	1	10	18	5	
Standard 5	S70.0	70.00	1	14	14	5	
Samples				20	8	5	

Diluent Location: 40
Modifier #1 Location: 0 Modifier #2 Location:
Calibration Units: ug/L Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	90	6	2	300		Norm
2	120	15	14	300		Norm
3	900	25	10	300		Norm
4	20	1	10	300		Norm
5	1800	0	5	0	*	Norm
6	2500	1	5	300		Norm

Injection Temp: 20 Pipette Speed: 100%

SEQUENCE:

Step	Action and Parameters
1	Pipet diluent + modifier 1 + modifier 2 + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Completely Recalibrate
Locations: None

Conc. Above Calibration Action: Print Message Only
Alternate Sample Volumes (uL): 4
Run Alternate Volume Blanks: No

If %RSD > 20.0 and Concentration > 3 then Retry 1 times
Check %RSD on: Standards + QC Samples

Recovery Measurements:
8 uL of 50.0 ug/L Standard at Location 5 Gives 20.00 ug/L
Measure Recovery on Samples: 6-39
Add to QC Samples: No % Recovery Limits:

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As Sample
1	39	AICV	22.5	27.5	X			
2	3	ICB	-3.0	2.0	X			
3	4	CRA	1.5	4.5	X			X
4	2	ACCV	31.5	38.5	X	X	X	
5	3	CCB	-3.0	2.0	X	X	X	

Run Periodic QC Samples: Every 8
Out of Limit Action: Recalibrate and Rerun Samples

Matrix Check Calculations:
% Difference for Dupls: No Locations:
% Recovery for Spike: No Locations: Conc:

Element File: PB_CLP.GEL | Element: Pb | Wavelength: 283.3
Date: 04/11/95 | Time: 10:04 | Slit: 0.70 L
Data File: PB041IR1 | ID/Wt File: UNTITLED | Lamp Current: 10
Technique: HGA | Calib. Type: Linear | Energy: 59
Remark 1: Pb Matrix Modifier = 5uL Pd(NO3)2 & Mg(NO3)2
Remark 2: ANALYST---BRYAN HOST/PAUL KOLARCZYK
Remark 3: Standards 1276-74-6 ; QC 1276-73-7
Remark 4: EDL SERIAL #7490
Remark 5: IDL 1.2

Bryan Host

Pb ID: S0.0 | Seq. No.: 00001 | A/S Pos.: 40 | Date: 04/11/95

Replicate 1 | Time: 10:17
Peak Area (A-s): 0.002 | Peak Height (A): 0.006
Background Pk Area (A-s): -0.015 | Background Pk Height (A): 0.002
Blank Corrected Pk Area (A-s): 0.002

Replicate 2 | Time: 10:20
Peak Area (A-s): -0.000 | Peak Height (A): 0.005
Background Pk Area (A-s): -0.016 | Background Pk Height (A): 0.001
Blank Corrected Pk Area (A-s): -0.000

Mean Pk Area (A-s): 0.001 SD: 0.0018 RSD(%): 161.36

Auto-zero performed.

~~~~~~

Pb ID: S3.0 Seq. No.: 00002 A/S Pos.: 4 Date: 04/11/95

Replicate 1 Time: 10:22
Peak Area (A-s): 0.020 Peak Height (A): 0.025
Background Pk Area (A-s): -0.012 Background Pk Height (A): 0.003
Blank Corrected Pk Area (A-s): 0.018

Replicate 2 Time: 10:25
Peak Area (A-s): 0.019 Peak Height (A): 0.026
Background Pk Area (A-s): -0.012 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.018

Mean Pk Area (A-s): 0.018 SD: 0.0005 RSD(%): 2.49

Standard number 1 applied. [3.00]
Correlation coefficient: 1.00000 Slope: 0.0060 Int: 0.000

~~~~~~

Pb ID: S10.0 Seq. No.: 00003 A/S Pos.: 5 Date: 04/11/95

Replicate 1 Time: 10:28
Peak Area (A-s): 0.073 Peak Height (A): 0.078
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.072
Concentration (ug/L): 11.87

Replicate 2 Time: 10:30
Peak Area (A-s): 0.070 Peak Height (A): 0.073
Background Pk Area (A-s): -0.000 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.069
Concentration (ug/L): 11.44

Mean Conc (ug/L): 11.65 SD: 0.306 RSD(%): 2.63

Standard number 2 applied. [10.00]
Correlation coefficient: 0.99894 Slope: 0.0071 Int: -0.001

~~~~~~

Pb ID: S30.0 Seq. No.: 00004 A/S Pos.: 5 Date: 04/11/95

Replicate 1 Time: 10:33
Peak Area (A-s): 0.183 Peak Height (A): 0.223
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.182
Concentration (ug/L): 25.79

Replicate 2 Time: 10:35
Peak Area (A-s): 0.185 Peak Height (A): 0.216
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.183
Concentrat (ug/L): 25.95

Mean Conc (ug/L): 25.87 SD: 0.111 RSD(%): 0.43
~~~~~~

343

Standard number 3 applied. [30.00]
Correlation coefficient: 0.99832 Slope: 0.0061 Int: 0.002

~~~~~~

Pb ID: S50.0 Seq. No.: 00005 A/S Pos.: 1 Date: 04/11/95

Replicate 1 Time: 10:38
Peak Area (A-s): 0.297 Peak Height (A): 0.328
Background Pk Area (A-s): 0.062 Background Pk Height (A): 0.085
Blank Corrected Pk Area (A-s): 0.296
Concentration (ug/L): 48.29

Replicate 2 Time: 10:40
Peak Area (A-s): 0.298 Peak Height (A): 0.322
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.083
Blank Corrected Pk Area (A-s): 0.297
Concentration (ug/L): 48.34

Mean Conc (ug/L): 48.32 SD: 0.033 RSD(%): 0.07

Standard number 4 applied. [50.00]
Correlation coefficient: 0.99924 Slope: 0.0059 Int: 0.004

~~~~~~

Pb ID: S70.0 Seq. No.: 00006 A/S Pos.: 1 Date: 04/11/95

Replicate 1 Time: 10:43
Peak Area (A-s): 0.413 Peak Height (A): 0.439
Background Pk Area (A-s): 0.096 Background Pk Height (A): 0.121
Blank Corrected Pk Area (A-s): 0.412
Concentration (ug/L): 69.11

Replicate 2 Time: 10:45
Peak Area (A-s): 0.421 Peak Height (A): 0.438
Background Pk Area (A-s): 0.097 Background Pk Height (A): 0.117
Blank Corrected Pk Area (A-s): 0.420
Concentration (ug/L): 70.54

Mean Conc (ug/L): 69.83 SD: 1.008 RSD(%): 1.44

Standard number 5 applied. [70.00]
Correlation coefficient: 0.99966 ✓ Slope: 0.0059 ✓ Int: 0.004 ✓

~~~~~~

Pb ID: AICV Seq. No.: 00007 A/S Pos.: 39 Date: 04/11/95

Replicate 1 Time: 10:48
Peak Area (A-s): 0.160 Peak Height (A): 0.164
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.159
Concentration (ug/L): 26.25

Replicate 2 Time: 10:50
Peak Area (A-s): 0.160 Peak Height (A): 0.167
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.159
Concentration (ug/L): 26.35
~~~~~~

Mean Conc (ug/L): 26.30 SD: 0.075 RSD(%): 0.28

QC sample is within range 22.5 - 27.5

~~~~~~

Pb ID: ICB Seq. No.: 00008 A/S Pos.: 3 Date: 04/11/95

Replicate 1 Time: 10:53
Peak Area (A-s): 0.000 Peak Height (A): 0.005
Background Pk Area (A-s): -0.013 Background Pk Height (A): 0.002
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.78

Replicate 2 Time: 10:55
Peak Area (A-s): 0.002 Peak Height (A): 0.005
Background Pk Area (A-s): -0.017 Background Pk Height (A): 0.002
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.59

Mean Conc (ug/L): -0.69 SD: 0.132 RSD(%): 19.23

QC sample is within range -3.0 - 2.0

~~~~~~

Pb ID: CRA Seq. No.: 00009 A/S Pos.: 4 Date: 04/11/95

Replicate 1 Time: 10:58
Peak Area (A-s): 0.021 Peak Height (A): 0.023
Background Pk Area (A-s): -0.012 Background Pk Height (A): 0.003
Blank Corrected Pk Area (A-s): 0.020
Concentration (ug/L): 2.65

Replicate 2 Time: 11:00
Peak Area (A-s): 0.021 Peak Height (A): 0.024
Background Pk Area (A-s): -0.011 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.020
Concentration (ug/L): 2.76

Mean Conc (ug/L): 2.70 SD: 0.076 RSD(%): 2.82

QC sample is within range 1.5 - 4.5

~~~~~~

Pb ID: ACCV Seq. No.: 00010 A/S Pos.: 2 Date: 04/11/95

Replicate 1 Time: 11:03
Peak Area (A-s): 0.219 Peak Height (A): 0.217
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.218
Concentration (ug/L): 36.38

Replicate 2 Time: 11:05
Peak Area (A-s): 0.222 Peak Height (A): 0.227
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.221
Concentration (ug/L): 36.83

Mean Conc (ug/L): 36.61 SD: 0.316 RSD(%): 0.86

QC sample within range 31.5 - 38.5
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~~~~~~

Pb ID: CCB Seq. No.: 00011 A/S Pos.: 3 Date: 04/11/95

Replicate 1 Time: 11:08
Peak Area (A-s): 0.000 Peak Height (A): 0.004
Background Pk Area (A-s): -0.015 Background Pk Height (A): 0.001
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.83

Replicate 2 Time: 11:11
Peak Area (A-s): 0.004 Peak Height (A): 0.005
Background Pk Area (A-s): -0.016 Background Pk Height (A): 0.003
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.25

Mean Conc (ug/L): -0.54 SD: 0.413 RSD(%): 76.44

QC sample is within range -3.0 - 2.0

~~~~~~

Pb ID: 9504G133-012 Seq. No.: 00012 A/S Pos.: 6 Date: 04/11/95

Replicate 1 Time: 11:13
Peak Area (A-s): 0.004 Peak Height (A): 0.007
Background Pk Area (A-s): -0.015 Background Pk Height (A): 0.002
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): -0.09

F763/CLP/H2O

Replicate 2 Time: 11:16
Peak Area (A-s): 0.004 Peak Height (A): 0.005
Background Pk Area (A-s): -0.016 Background Pk Height (A): 0.002
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): -0.10

Mean Conc (ug/L): -0.10 SD: 0.006 RSD(%): 6.72

~~~~~~

Pb ID: 9504G133-012 Seq. No.: 00013 A/S Pos.: 6 Date: 04/11/95

Replicate 1 Time: 11:18
Peak Area (A-s): 0.130 Peak Height (A): 0.141
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.128
Concentration (ug/L): 21.13

Replicate 2 Time: 11:20
Peak Area (A-s): 0.132 Peak Height (A): 0.140
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.130
Concentration (ug/L): 21.49

Mean Conc (ug/L): 21.31 SD: 0.252 RSD(%): 1.18

Recovery is 107.0% 106.6%

~~~~~~

Pb ID: ..04G133-013 Seq. No.: 00014 A/S Pos.: 7 Date. 04/11/95

Replicate 2 Time: 11:40

Peak Area (A-s): 0.117 Peak Height (A): 0.188
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.115
Concentration (ug/L): 18.92

Mean Conc (ug/L): 18.84 SD: 0.117 RSD(%): 0.62 ✓

Recovery is 93.2% 94.2%

~~~~~~

Pb ID: 9504G133-016 Seq. No.: 00018 A/S Pos.: 9 Date: 04/11/95

Replicate 1 Time: 11:43
Peak Area (A-s): 0.003 Peak Height (A): 0.007
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.26

Replicate 2 Time: 11:45
Peak Area (A-s): 0.005 Peak Height (A): 0.007
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 0.00

Mean Conc (ug/L): -0.13 SD: 0.187 RSD(%): 146.22

~~~~~~

Pb ID: 9504G133-016 Seq. No.: 00019 A/S Pos.: 9 Date: 04/11/95

Replicate 1 Time: 11:48
Peak Area (A-s): 0.124 Peak Height (A): 0.187
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.122
Concentration (ug/L): 20.12

Replicate 2 Time: 11:50
Peak Area (A-s): 0.120 Peak Height (A): 0.179
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): 0.119
Concentration (ug/L): 19.46

Mean Conc (ug/L): 19.79 SD: 0.465 RSD(%): 2.35 ✓

Recovery is 99.6% 99.0%

~~~~~~

Pb ID: ACCV 8 Seq. No.: 00020 A/S Pos.: 2 Date: 04/11/95

Replicate 1 Time: 11:53
Peak Area (A-s): 0.204 Peak Height (A): 0.220
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.203
Concentration (ug/L): 33.84

Replicate 2 Time: 11:55
Peak Area s): 0.204 Peak Height (A): 0.233
Backgrour . Area (A-s): 0.039 Background Pk Height (A): 0.
Blank Corrected Pk Area (A-s): 0.202
~~~~~~

Concentr: on (ug/L): 33.69

Mean Conc (ug/L): 33.77 SD: 0.106 RSD(%): 0.31

QC sample is within range 31.5 - 38.5

~~~~~~

Pb ID: CCB Seq. No.: 00021 A/S Pos.: 3 Date: 04/11/95

Replicate 1 Time: 11:58
Peak Area (A-s): 0.000 Peak Height (A): 0.006
Background Pk Area (A-s): -0.010 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.78

Replicate 2 Time: 12:00
Peak Area (A-s): 0.003 Peak Height (A): 0.007
Background Pk Area (A-s): -0.015 Background Pk Height (A): 0.003
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.42

Mean Conc (ug/L): -0.60 SD: 0.258 RSD(%): 42.98

QC sample is within range -3.0 - 2.0

~~~~~~

Pb ID: 9504G133-017 Seq. No.: 00022 A/S Pos.: 10 Date: 04/11/95

Replicate 1 Time: 12:03
Peak Area (A-s): 0.004 Peak Height (A): 0.008
Background Pk Area (A-s): -0.005 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.25

Replicate 2 Time: 12:05
Peak Area (A-s): 0.006 Peak Height (A): 0.009
Background Pk Area (A-s): -0.007 Background Pk Height (A): 0.003
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 0.12

Mean Conc (ug/L): -0.07 SD: 0.260 RSD(%): 377.57

~~~~~~

Pb ID: 9504G133-017 Seq. No.: 00023 A/S Pos.: 10 Date: 04/11/95

Replicate 1 Time: 12:08
Peak Area (A-s): 0.117 Peak Height (A): 0.219
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.116
Concentration (ug/L): 19.06

Replicate 2 Time: 12:10
Peak Area (A-s): 0.119 Peak Height (A): 0.213
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.118
Concentration (ug/L): 19.31

Mean Conc g/L): 19.19 SD: 0.178 RSD(' 0.93

Recovery is 96.3%

96.0 %
~~~~~~

Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.030

Blank Corrected Pk Area (A-s): 0.124
Concentration (ug/L): 20.30

Replicate 2 Time: 12:30
Peak Area (A-s): 0.121 Peak Height (A): 0.133
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.120
Concentration (ug/L): 19.66

Mean Conc (ug/L): 19.98 SD: 0.455 RSD(%): 2.28 ✓

Recovery is 98.3% 99.9%

~~~~~~

Pb ID: 95GF762-LC1 Seq. No.: 00028 A/S Pos.: 13 Date: 04/11/95

Replicate 1 Time: 12:33
Peak Area (A-s): 0.122 Peak Height (A): 0.124
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.121
Concentration (ug/L): 19.84

Replicate 2 Time: 12:35
Peak Area (A-s): 0.114 Peak Height (A): 0.128
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.113
Concentration (ug/L): 18.52

95.9%

Mean Conc (ug/L): 19.18 SD: 0.931 RSD(%): 4.85 ✓

~~~~~~

Pb ID: 95GF762-LC1 Seq. No.: 00029 A/S Pos.: 13 Date: 04/11/95

Replicate 1 Time: 12:38
Peak Area (A-s): 0.223 Peak Height (A): 0.239
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.222
Concentration (ug/L): 37.07

Replicate 2 Time: 12:40
Peak Area (A-s): 0.212 Peak Height (A): 0.236
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): 0.211
Concentration (ug/L): 35.09

Mean Conc (ug/L): 36.08 SD: 1.405 RSD(%): 3.89 ✓

Recovery is 84.5% ✓

~~~~~~

Pb ID: ACCV 3 Seq. No.: 00030 A/S Pos.: 2 Date: 04/11/95

Replicate 1 Time: 12:43
Peak Area (A-s): 0.204 Peak Height (A): 0.208
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.049
Blank Cor [illegible]ted Pk Area (A-s): 0.203
Concentr[illegible]n (ug/L): 33.79

Replicate 2 Time: 12:45
~~~~~~

Replicate 2 Time: 12:45

Peak Area (A-s): 0.203 Peak Height (A): 0.206
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.202
Concentration (ug/L): 33.62

Mean Conc (ug/L): 33.71 SD: 0.119 RSD(%): 0.35 ✓

QC sample is within range 31.5 - 38.5 ✓

~~~~~~

Pb ID: CCB 3 Seq. No.: 00031 A/S Pos.: 3 Date: 04/11/95

Replicate 1 Time: 12:48
Peak Area (A-s): 0.003 Peak Height (A): 0.006
Background Pk Area (A-s): -0.009 Background Pk Height (A): 0.003
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.37

Replicate 2 Time: 12:50
Peak Area (A-s): 0.003 Peak Height (A): 0.006
Background Pk Area (A-s): -0.011 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.38

Mean Conc (ug/L): -0.38 SD: 0.011 RSD(%): 2.99

QC sample is within range -3.0 - 2.0 ✓

~~~~~~

Pb ID: 95GF762-LC2 Seq. No.: 00032 A/S Pos.: 14 Date: 04/11/95

Replicate 1 Time: 12:53
Peak Area (A-s): 0.108 Peak Height (A): 0.109
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.107
Concentration (ug/L): 17.56

Replicate 2 Time: 12:55
Peak Area (A-s): 0.110 Peak Height (A): 0.105
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.108
Concentration (ug/L): 17.74

88.2%

Mean Conc (ug/L): 17.65 SD: 0.125 RSD(%): 0.71 ✓

~~~~~~

Pb ID: 95GF762-LC2 Seq. No.: 00033 A/S Pos.: 14 Date: 04/11/95

Replicate 1 Time: 12:58
Peak Area (A-s): 0.214 Peak Height (A): 0.240
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.213
Concentration (ug/L): 35.51

Replicate 2 Time: 13:00
Peak Area (A-s): 0.214 Peak Height (A): 0.233
Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): 0.213
~~~~~~

Pb ID: 9504L478-001R Seq. No.: 00037 A/S Pos.: 16 Date: 04/11/95

Replicate 1 Time: 13:18
Peak Area (A-s): 0.065 Peak Height (A): 0.117
Background Pk Area (A-s): 0.598 Background Pk Height (A): 0.462
Blank Corrected Pk Area (A-s): 0.063
Concentration (ug/L): 10.10

Replicate 2 Time: 13:20
Peak Area (A-s): 0.061 Peak Height (A): 0.115
Background Pk Area (A-s): 0.601 Background Pk Height (A): 0.443
Blank Corrected Pk Area (A-s): 0.060
Concentration (ug/L): 9.49

Mean Conc (ug/L): 9.80 SD: 0.435 RSD(%): 4.44

Recovery is 50.3% 49.00 %

Pb ID: 9504L478-001S Seq. No.: 00038 A/S Pos.: 17 Date: 04/11/95

Replicate 1 Time: 13:22
Peak Area (A-s): 0.064 Peak Height (A): 0.122
Background Pk Area (A-s): 0.589 Background Pk Height (A): 0.420
Blank Corrected Pk Area (A-s): 0.063
Concentration (ug/L): 10.01

Replicate 2 Time: 13:25
Peak Area (A-s): 0.059 Peak Height (A): 0.117
Background Pk Area (A-s): 0.599 Background Pk Height (A): 0.420
Blank Corrected Pk Area (A-s): 0.058
Concentration (ug/L): 9.16 0.00/20.00 = 48.0%

Mean Conc (ug/L): 9.59 SD: 0.598 RSD(%): 6.24

Pb ID: 9504L478-001S Seq. No.: 00039 A/S Pos.: 17 Date: 04/11/95

Replicate 1 Time: 13:27
Peak Area (A-s): 0.110 Peak Height (A): 0.203
Background Pk Area (A-s): 0.599 Background Pk Height (A): 0.430
Blank Corrected Pk Area (A-s): 0.109
Concentration (ug/L): 17.86

Replicate 2 Time: 13:30
Peak Area (A-s): 0.120 Peak Height (A): 0.215
Background Pk Area (A-s): 0.623 Background Pk Height (A): 0.460
Blank Corrected Pk Area (A-s): 0.119
Concentration (ug/L): 19.49

Mean Conc (ug/L): 18.68 SD: 1.151 RSD(%): 6.16

Recovery is 45.5%

Pb ID: CV Seq. No.: 00040 A/S Pos.: 2 Dat 04/11/95

Replicate 1

Replicate 1 Time: 13:32

Peak Area (A-s): 0.205 Peak Height (A): 0.213
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.204
Concentration (ug/L): 33.96

Replicate 2 Time: 13:35
Peak Area (A-s): 0.203 Peak Height (A): 0.220
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.202
Concentration (ug/L): 33.61

Mean Conc (ug/L): 33.79 SD: 0.245 RSD(%): 0.73

QC sample is within range 31.5 - 38.5

~~~~~~

Pb ID: CCB Seq. No.: 00041 A/S Pos.: 3 Date: 04/11/95

Replicate 1 Time: 13:37
Peak Area (A-s): 0.002 Peak Height (A): 0.005
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.58

Replicate 2 Time: 13:40
Peak Area (A-s): 0.001 Peak Height (A): 0.006
Background Pk Area (A-s): -0.008 Background Pk Height (A): 0.003
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.72

Mean Conc (ug/L): -0.65 SD: 0.104 RSD(%): 15.91

QC sample is within range -3.0 - 2.0

~~~~~~

Pb ID: 9504G177-001 Seq. No.: 00042 A/S Pos.: 18 Date: 04/11/95

Replicate 1 Time: 13:42
Peak Area (A-s): 0.201 Peak Height (A): 0.326
Background Pk Area (A-s): 0.608 Background Pk Height (A): 0.249
Blank Corrected Pk Area (A-s): 0.200
Concentration (ug/L): 33.28

Replicate 2 Time: 13:45
Peak Area (A-s): 0.210 Peak Height (A): 0.350
Background Pk Area (A-s): 0.564 Background Pk Height (A): 0.247
Blank Corrected Pk Area (A-s): 0.209
Concentration (ug/L): 34.79

Mean Conc (ug/L): 34.03 SD: 1.067 RSD(%): 3.14

Rerun 5X 4/11/95

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Pb ID: 9504G177-001 Seq. No.: 00043 A/S Pos.: 18 Date: 04/11/95

Replicate 1 Time: 13:47
Peak Area (A-s): 0.285 Peak Height (A): 0.490
Background Pk Area (A-s): 0.607 Background Pk Height (A): 0
Blank Corrected Pk Area (A-s): 0.284
Concentration (ug/L): 47.50
~~~~~~

Background Pk Area (A-s): 0.188 Background Pk Height (A): 0.208

Blank Corrected Pk Area (A-s): 0.455
Concentration (ug/L): 76.51

Sample abs. is greater than that of the largest standard.
Mean Conc (ug/L): 79.91 SD: 4.813 RSD(%): 6.02

Recovery is 54.1%

~~~~~~

Pb ID: ACCV Seq. No.: 00050 A/S Pos.: 2 Date: 04/11/95

Replicate 1 Time: 14:22
Peak Area (A-s): 0.207 Peak Height (A): 0.228
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.205
Concentration (ug/L): 34.20

Replicate 2 Time: 14:25
Peak Area (A-s): 0.205 Peak Height (A): 0.214
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.204
Concentration (ug/L): 33.94

Mean Conc (ug/L): 34.07 SD: 0.190 RSD(%): 0.56

QC sample is within range 31.5 - 38.5

~~~~~~

Pb ID: CCB Seq. No.: 00051 A/S Pos.: 3 Date: 04/11/95

Replicate 1 Time: 14:27
Peak Area (A-s): 0.007 Peak Height (A): 0.012
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 0.35

Replicate 2 Time: 14:30
Peak Area (A-s): 0.005 Peak Height (A): 0.009
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): -0.02

Mean Conc (ug/L): 0.16 SD: 0.268 RSD(%): 162.55

QC sample is within range -3.0 - 2.0

~~~~~~

Pb ID: 9504G177-005 Seq. No.: 00052 A/S Pos.: 22 Date: 04/11/95

Replicate 1 Time: 14:32
Peak Area (A-s): 0.146 Peak Height (A): 0.269
Background Pk Area (A-s): 0.084 Background Pk Height (A): 0.079
Blank Corrected Pk Area (A-s): 0.145
Concentration (ug/L): 23.87

Replicate ᄀ Time: 14:35
Peak Area -s): 0.142 Peak Height (A): 0.264
Backgroun k Area (A-s): 0.087 Background Pk Height (A): 0.(
Blank Corrected Pk Area (A-s): 0.141
~~~~~~

Backgrou ?k Area (A-s): 0.070   Background Pk Height (A): 0.

353

Blank Corrected Pk Area (A-s): 0.211
Concentration (ug/L): 35.08

Replicate 2   Time: 15:09
Peak Area (A-s): 0.211   Peak Height (A): 0.413
Background Pk Area (A-s): 0.069   Background Pk Height (A): 0.104
Blank Corrected Pk Area (A-s): 0.210
Concentration (ug/L): 34.96

Mean Conc (ug/L): 35.02   SD: 0.089   RSD(%): 0.25

Recovery is 75.6%

~~~~~~

Pb ID: ACCV   Seq. No.: 00060   A/S Pos.: 2   Date: 04/11/95

Replicate 1   Time: 15:12
Peak Area (A-s): 0.201   Peak Height (A): 0.215
Background Pk Area (A-s): 0.055   Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.200
Concentration (ug/L): 33.23

Replicate 2   Time: 15:15
Peak Area (A-s): 0.199   Peak Height (A): 0.214
Background Pk Area (A-s): 0.050   Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.197
Concentration (ug/L): 32.85

Mean Conc (ug/L): 33.04   SD: 0.269   RSD(%): 0.82

QC sample is within range 31.5 - 38.5

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Pb ID: CCB   Seq. No.: 00061   A/S Pos.: 3   Date: 04/11/95

Replicate 1   Time: 15:17
Peak Area (A-s): -0.000   Peak Height (A): 0.007
Background Pk Area (A-s): 0.003   Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.88

Replicate 2   Time: 15:20
Peak Area (A-s): 0.003   Peak Height (A): 0.007
Background Pk Area (A-s): 0.016   Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.35

Mean Conc (ug/L): -0.61   SD: 0.381   RSD(%): 61.97

QC sample is within range -3.0 - 2.0

~~~~~~

Pb ID: 9504G183-002   Seq. No.: 00062   A/S Pos.: 26   Date: 04/11/95

Replicate 1   Time: 15:22
Peak Area -s): 0.098   Peak Height (A): 0.233
Backgroun < Area (A-s): 0.044   Background Pk Height (A): 0.
Blank Corrected Pk Area (A-s): 0.097
Concentration (ug/L): 15.74
~~~~~~

Pb ID: 9504G192-003R Seq. No.: 00069 A/S Pos.: 29 Date: 04/11/95

Replicate 1 Time: 15:57
Peak Area (A-s): 0.157 Peak Height (A): 0.247
Background Pk Area (A-s): 0.078 Background Pk Height (A): 0.067
Blank Corrected Pk Area (A-s): 0.155
Concentration (ug/L): 25.72

Replicate 2 Time: 16:00
Peak Area (A-s): 0.166 Peak Height (A): 0.262
Background Pk Area (A-s): 0.077 Background Pk Height (A): 0.071
Blank Corrected Pk Area (A-s): 0.165
Concentration (ug/L): 27.32

Mean Conc (ug/L): 26.52 SD: 1.134 RSD(%): 4.28

Recovery is 90.2%

Pb ID: ACCV Seq. No.: 00070 A/S Pos.: 2 Date: 04/11/95

Replicate 1 Time: 16:02
Peak Area (A-s): 0.196 Peak Height (A): 0.227
Background Pk Area (A-s): 0.053 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.194
Concentration (ug/L): 32.33

Replicate 2 Time: 16:05
Peak Area (A-s): 0.199 Peak Height (A): 0.224
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.198
Concentration (ug/L): 32.98

Mean Conc (ug/L): 32.66 SD: 0.454 RSD(%): 1.39

QC sample is within range 31.5 - 38.5

Pb ID: CCB Seq. No.: 00071 A/S Pos.: 3 Date: 04/11/95

Replicate 1 Time: 16:07
Peak Area (A-s): 0.001 Peak Height (A): 0.005
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.68

Replicate 2 Time: 16:10
Peak Area (A-s): 0.000 Peak Height (A): 0.004
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.85

Mean Conc (ug/L): -0.77 SD: 0.122 RSD(%): 15.91

QC sample within range -3.0 - 2.0

Replicat 2 Time: 16:45

Peak Area (A-s): 0.112 Peak Height (A): 0.124
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.111
Concentration (ug/L): 18.10

Mean Conc (ug/L): 17.63 89.2% SD: 0.669 RSD(%): 3.80

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Pb ID: 95GF765-LC2 Seq. No.: 00079 A/S Pos.: 33 Date: 04/11/95

Replicate 1 Time: 16:47
Peak Area (A-s): 0.211 Peak Height (A): 0.233
Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.210
Concentration (ug/L): 35.03

Replicate 2 Time: 16:50
Peak Area (A-s): 0.222 Peak Height (A): 0.248
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.220
Concentration (ug/L): 36.75

Mean Conc (ug/L): 35.89 SD: 1.216 RSD(%): 3.39

Recovery is 91.3%

~~~~~~

Pb ID: ACCV Seq. No.: 00080 A/S Pos.: 2 Date: 04/11/95

Replicate 1 Time: 16:52
Peak Area (A-s): 0.200 Peak Height (A): 0.206
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.199
Concentration (ug/L): 33.13

Replicate 2 Time: 16:55
Peak Area (A-s): 0.201 Peak Height (A): 0.206
Background Pk Area (A-s): 0.054 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.200
Concentration (ug/L): 33.27

Mean Conc (ug/L): 33.20 SD: 0.103 RSD(%): 0.31

QC sample is within range 31.5 - 38.5

~~~~~~

Pb ID: CCB Seq. No.: 00081 A/S Pos.: 3 Date: 04/11/95

Replicate 1 Time: 16:57
Peak Area (A-s): 0.003 Peak Height (A): 0.007
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.31

Replicate 2 Time: 17:00
Peak Area -s): 0.002 Peak Height (A): 0.005
Backgroun k Area (A-s): 0.004 Background Pk Height (A): 0. 6
Blank Corrected Pk Area (A-s): 0.000
~~~~~~

Concentration (ug/L): -0.58

Mean Conc (ug/L): -0.44 SD: 0.192 RSD(%): 43.31

QC sample is within range -3.0 - 2.0

~~~~~~

Pb ID: 9504G170-001 Seq. No.: 00082 A/S Pos.: 34 Date: 04/11/95

The signal is too large for the range of the electronics.
Replicate 1 Time: 17:02
Peak Area (A-s): -0.072 Peak Height (A): 2.961
Background Pk Area (A-s): 2.254 Background Pk Height (A): 3.123
Blank Corrected Pk Area (A-s): -0.073
Concentration (ug/L): --------

Rerun 5X PFK 4/11/95

Replicate 2 Time: 17:05
Peak Area (A-s): -0.031 Peak Height (A): 0.007
Background Pk Area (A-s): 2.458 Background Pk Height (A): 2.562
Blank Corrected Pk Area (A-s): -0.033
Concentration (ug/L): -6.19

Mean Conc (ug/L): ---- SD: ---- RSD(%): ----

~~~~~~

Pb ID: 9504G170-001 Seq. No.: 00083 A/S Pos.: 34 Date: 04/11/95

Replicate 1 Time: 17:07
Peak Area (A-s): 0.022 Peak Height (A): 0.065
Background Pk Area (A-s): 2.290 Background Pk Height (A): 1.905
Blank Corrected Pk Area (A-s): 0.021
Concentration (ug/L): 2.91

Replicate 2 Time: 17:10
Peak Area (A-s): 0.024 Peak Height (A): 0.064
Background Pk Area (A-s): 2.199 Background Pk Height (A): 1.612
Blank Corrected Pk Area (A-s): 0.023
Concentration (ug/L): 3.19

Mean Conc (ug/L): 3.05 SD: 0.197 RSD(%): 6.47

Recovery is 63.5%

~~~~~~

Pb ID: 9504G173-002 Seq. No.: 00084 A/S Pos.: 35 Date: 04/11/95

Replicate 1 Time: 17:12
Peak Area (A-s): 0.005 Peak Height (A): 0.014
Background Pk Area (A-s): 0.113 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): -0.07

Replicate 2 Time: 17:15
Peak Area (A-s): 0.001 Peak Height (A): 0.010
Background Pk Area (A-s): 0.085 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.70

Mean Conc ug/L): -0.38 SD: 0.448 RSD(116.83
~~~~~~

Replicate   Time: 17:32

357

Peak Area (A-s): 0.039   Peak Height (A): 0.087
Background Pk Area (A-s): 0.086   Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.038
Concentration (ug/L): 5.75

Replicate 2   Time: 17:35
Peak Area (A-s): 0.035   Peak Height (A): 0.071
Background Pk Area (A-s): 0.080   Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.034
Concentration (ug/L): 5.15

Mean Conc (ug/L): 5.45   SD: 0.421   RSD(%): 7.74

~~~~~~

Pb   ID: 95046172-001   Seq. No.: 00089   A/S Pos.: 37   Date: 04/11/95

Replicate 1   Time: 17:37
Peak Area (A-s): 0.108   Peak Height (A): 0.216
Background Pk Area (A-s): 0.077   Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.107
Concentration (ug/L): 17.52

Replicate 2   Time: 17:40
Peak Area (A-s): 0.125   Peak Height (A): 0.270
Background Pk Area (A-s): 0.111   Background Pk Height (A): 0.082
Blank Corrected Pk Area (A-s): 0.124
Concentration (ug/L): 20.36

Mean Conc (ug/L): 18.94   SD: 2.005   RSD(%): 10.58

Recovery is 67.5%

~~~~~~

Pb   ID: ACCV   Seq. No.: 00090   A/S Pos.: 2   Date: 04/11/95

Replicate 1   Time: 17:42
Peak Area (A-s): 0.204   Peak Height (A): 0.197
Background Pk Area (A-s): 0.055   Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.203
Concentration (ug/L): 33.74

Replicate 2   Time: 17:45
Peak Area (A-s): 0.207   Peak Height (A): 0.196
Background Pk Area (A-s): 0.053   Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.206
Concentration (ug/L): 34.29

Mean Conc (ug/L): 34.01   SD: 0.389   RSD(%): 1.14

QC sample is within range 31.5 - 38.5

~~~~~~

Pb   ID: CCB   Seq. No.: 00091   A/S Pos.: 3   Date: 04/11/95

Replicate 1   Time: 17:47
Peak Area -s): 0.006   Peak Height (A): 0.008
Backgroun k Area (A-s): 0.002   Background Pk Height (A): 0.
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): [illegible]
~~~~~~

Concentration (ug/L): 0.10

Replicate 2 Time: 17:50
Peak Area (A-s): 0.003 Peak Height (A): 0.007
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.27

Mean Conc (ug/L): -0.08 SD: 0.267 RSD(%): 315.31

QC sample is within range -3.0 - 2.0

~~~~~~

Pb ID: 9504G172-002 Seq. No.: 00092 A/S Pos.: 38 Date: 04/11/95

Replicate 1 W Time: 17:52
Peak Area (A-s): 0.003 Peak Height (A): 0.011
Background Pk Area (A-s): 0.089 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.29

Replicate 2 Time: 17:55
Peak Area (A-s): 0.001 Peak Height (A): 0.010
Background Pk Area (A-s): 0.098 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.76

Mean Conc (ug/L): -0.53 SD: 0.335 RSD(%): 63.77

~~~~~~

Pb ID: 9504G172-002 Seq. No.: 00093 A/S Pos.: 38 Date: 04/11/95

Replicate 1 Time: 17:57
Peak Area (A-s): 0.093 Peak Height (A): 0.171
Background Pk Area (A-s): 0.093 Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.092
Concentration (ug/L): 14.88

Replicate 2 Time: 18:00
Peak Area (A-s): 0.096 Peak Height (A): 0.183
Background Pk Area (A-s): 0.118 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.095
Concentration (ug/L): 15.41

Mean Conc (ug/L): 15.15 SD: 0.376 RSD(%): 2.48

Recovery is 78.4% 75.8%

~~~~~~

Pb ID: ACCV 10 Seq. No.: 00094 A/S Pos.: 2 Date: 04/11/95

Replicate 1 Time: 18:02
Peak Area (A-s): 0.205 Peak Height (A): 0.193
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.204
Concentration (ug/L): 34.02

Replicate Time: 18:05
Peak Area -s): 0.191 Peak Height (A): 0.219
Backgroun k Area (A-s): 0.049 Background Pk Height (A): 0.0
Blank Corrected Pk Area (A-s): 0.190
~~~~~~

Blank Cor :ted Pk Area (A-s): 0.190

Concentration (ug/L): 31.56

Mean Conc (ug/L): 32.79 SD: 1.738 RSD(%): 5.30

QC sample is within range 31.5 - 38.5

~~~~~~

Pb ID: CCB 10 Seq. No.: 00095 A/S Pos.: 3 Date: 04/11/95

Replicate 1 Time: 18:07
Peak Area (A-s): 0.003 Peak Height (A): 0.007
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.31

Replicate 2 Time: 18:10
Peak Area (A-s): 0.002 Peak Height (A): 0.007
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.53

Mean Conc (ug/L): -0.42 SD: 0.155 RSD(%): 36.92

QC sample is within range -3.0 - 2.0

~~~~~~

Pb ID: 9504G172-002R Seq. No.: 00097 A/S Pos.: 6 Date: 04/11/95

Replicate 1 Time: 18:17
Peak Area (A-s): 0.003 Peak Height (A): 0.008
Background Pk Area (A-s): 0.073 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.42

Replicate 2 Time: 18:20
Peak Area (A-s): 0.003 Peak Height (A): 0.010
Background Pk Area (A-s): 0.070 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.31

Mean Conc (ug/L): -0.36 SD: 0.081 RSD(%): 22.38

~~~~~~

Pb ID: 9504G172-002R Seq. No.: 00098 A/S Pos.: 6 Date: 04/11/95

Replicate 1 Time: 18:22
Peak Area (A-s): 0.105 Peak Height (A): 0.160
Background Pk Area (A-s): 0.093 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.104
Concentration (ug/L): 16.92

Replicate 2 Time: 18:24
Peak Area (A-s): 0.092 Peak Height (A): 0.141
Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.091
Concentra n (ug/L): 14.75

Mean Conc (ug/L): 15.84 SD: 1.534 RSD(%): 9.69
~~~~~~

Replicate 1 Time: 18:42

BAH 4/12/95

Peak Area (A-s): 0.109 Peak Height (A): 0.210
Background Pk Area (A-s): 0.064 Background Pk Height (A): 0.058
Blank Corrected Pk Area (A-s): 0.108
Concentration (ug/L): 17.62

Replicate 2 Time: 18:44
Peak Area (A-s): 0.105 Peak Height (A): 0.192
Background Pk Area (A-s): 0.064 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.104
Concentration (ug/L): 16.96

Mean Conc (ug/L): 17.29 SD: 0.466 RSD(%): 2.70

Recovery is 82.5% 86.4%

~~~~~~

Pb ID: 95GF767-MB1 Seq. No.: 00103 A/S Pos.: 9 Date: 04/11/95

Replicate 1 Time: 18:47
Peak Area (A-s): 0.005 Peak Height (A): 0.009
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 0.02

F767 | wellH20

Replicate 2 Time: 18:49
Peak Area (A-s): 0.006 Peak Height (A): 0.009
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.007
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 0.09

Mean Conc (ug/L): 0.06 SD: 0.050 RSD(%): 89.15

~~~~~~

Pb ID: 95GF767-MB1 Seq. No.: 00104 A/S Pos.: 9 Date: 04/11/95

Replicate 1 Time: 18:52
Peak Area (A-s): 0.112 Peak Height (A): 0.117
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.111
Concentration (ug/L): 18.23

Replicate 2 Time: 18:54
Peak Area (A-s): 0.122 Peak Height (A): 0.121
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.121
Concentration (ug/L): 19.82

Mean Conc (ug/L): 19.02 SD: 1.120 RSD(%): 5.89

Recovery is 94.8% 95.1%

~~~~~~

Pb ID: ACCV II Seq. No.: 00105 A/S Pos.: 2 Date: 04/11/95

Replicate 1 Time: 18:57
Peak Area -s): 0.205 Peak Height (A): 0.188
Backgroun k Area (A-s): 0.054 Background Pk Height (A): 0.
Blank Corrected Pk Area (A-s): 0.204
~~~~~~

Concentration (ug/L): 33.95

Replicate 2 Time: 18:59
Peak Area (A-s): 0.202 Peak Height (A): 0.183
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.200
Concentration (ug/L): 33.35

Mean Conc (ug/L): 33.65 SD: 0.421 RSD(%): 1.25

QC sample is within range 31.5 - 38.5

~~~~~~

Pb ID: CCB Seq. No.: 00106 A/S Pos.: 3 Date: 04/11/95

Replicate 1 Time: 19:02
Peak Area (A-s): 0.002 Peak Height (A): 0.006
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.44

Replicate 2 Time: 19:04
Peak Area (A-s): 0.002 Peak Height (A): 0.005
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.43

Mean Conc (ug/L): -0.43 SD: 0.005 RSD(%): 1.11

QC sample is within range -3.0 - 2.0

DO NOT REPORT

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Pb ID: 95GF767-LC1 Seq. No.: 00107 A/S Pos.: 10 Date: 04/11/95

Replicate 1 Time: 19:07
Peak Area (A-s): 0.101 Peak Height (A): 0.123
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.100
Concentration (ug/L): 16.26

Replicate 2 Time: 19:09
Peak Area (A-s): 0.106 Peak Height (A): 0.119
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.105
Concentration (ug/L): 17.11

Mean Conc (ug/L): 16.69 SD: 0.601 RSD(%): 3.60

~~~~~~

Pb ID: 95GF767-LC1 Seq. No.: 00108 A/S Pos.: 10 Date: 04/11/95

Replicate 1 Time: 19:12
Peak Area (A-s): 0.198 Peak Height (A): 0.203
Background Pk Area (A-s): 0.053 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.196
Concentration (ug/L): 32.67

Replicate Time: 19:14
Peak Area -s): 0.211 Peak Height (A): 0.244
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.210
~~~~~~

(2)

WESTON Analytics AA3.1 Report

IDL = 1.2 ug/L run 2

Data File:PB0412S1 Date collected: 95/04/12 Time:
Method File: Date of Report: Time:
Analyst: BPH/PFK Remarks:

	PB ppb				
AICV	25.41	MPBTO	1		10:16
ICB	-0.98	MPBTO	1		10:21
CRA	2.44	MPBTO	1		10:26
ACCV 1	36.27	MPBTO	1		10:31
CCB	-0.69	MPBTO	1		10:36
95GF767-LC1	18.01	MPBTO	1	95GF767	10:41
95046211-001	-0.39	MPBTO	1		10:51
95046211-001R	-0.42	MPBTO	1		11:01
95046211-001S	15.89	MPBTO	1		11:11
ACCV 2	33.52	MPBTO	1		11:21
CCB	-0.83	MPBTO	1		11:26
95046211-002	-0.37	MPBSO	1		11:31
95046211-002R	0.01	MPBSO	1		11:41
95046211-002S	15.68	MPBSO	1		11:51
95046211-003	47.04	MPBTO	1		12:00
ACCV 3	32.89	MPBTO	1		12:10
CCB	-0.70	MPBTO	1		12:15
95046211-004	0.31	MPBSO	1		12:20
95046211-005	1.48	MPBTO	1		12:30
95046211-006	0.16	MPBSO	1		12:40
95046211-007	1.43	MPBTO	1		12:50
ACCV 4	32.42	MPBTO	1		13:00
CCB	-0.74	MPBTO	1		13:05
95046211-008	0.19	MPBSO	1		13:10
95046211-009	5.52	MPBTO	1		13:20
95046211-010	0.77	MPBSO	1		13:29
95046177-001	7.80	MPBTO	5	95GF762	13:39
ACCV 5	32.29	MPBTO	1		13:49
CCB	-0.84	MPBTO	1		13:54
95046177-002	5.03	MPBTO	5		13:59
95046177-003	13.26	MPBTO	10		14:09
95046177-004	16.98	MPBTO	5		14:19
95046177-005	7.35	MPBTO	3		14:29
ACCV	32.73	MPBTO	1		14:39
CCB	-0.40	MPBTO	1		14:44
95046261-001	9.58	MPBTO	1	NONE	15:23
ACCV	32.48	MPBTO	1		15:33
CCB	-0.60	MPBTO	1		15:38
95046262-001	2.14	MPBTO	1		15:43
95036016-009	42.04	MPBTO	1		15:53
95036016-009S	60.88	MPBTO	1		15:58
95036016-009R	41.48	MPBTO	1		16:03
95046192-004	-0.08	MPBSO	1		16:13
95046192-004S	19.19	MPBSO	1		16:18
ACCV	33.63	MPBTO	1		16:23
CCB	-0.60	MPBTO	1		16:28
95046192-004R	-0.84	MPBSO	1		16:33
95046183-002	7.55	MPBTO	2	95GF762	16:46
ACCV	32.83	MPBTO	1		16:58
CCB	-0.76	MPBTO	1		17:03
~~95036965-001S~~	~~24.24~~	~~MPBTO~~	~~1~~ 0.05 4/13/95	95GF770	17:08
95GF765-MB1	-0.44	MPBTO	1	95GF765	17:18
95GF764-MB1	0.13	MPBTO	1	95GF764	17:38
ACCV	32.76	MPBTO	1		17:48
CCB	-1.17	MPBTO	1		17:53
95GF764-LC1	17.89	MPBTO	1		17:58
95GF764					

updated 4/13/95

Dan [illegible] 4/13/95

[illegible] 4/13/95

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WESTON Environmental Metrics, Inc.
AA3 - PE5100 GFAA Sample Analysis Log

OP No. 21-21G-1534
Rev. 01; Eff. Date 03/06/95

Filename: PB0412R1

Amnt: PB Lamp: HCL Current: 10 Energy: 58

Prep Batch / Matrix: F767/F762/~~F768~~ BPN 4/12/95 QC: a. Standard b. CLP

Autosampler Location	QC / Sample ID	Dilution	Rerun	MSA	Comments
1	STD				
2	ICV/CCV				
3	ICB/CCB				
4	CRA				
5	STD				
6	9506F767-LCJ				F767/CLP/H2O
7	9504G211-001				
8	(R)				
9	(S)				
10	002 SOL				
11	(R)				
12	(S)				
13	003				
14	004 SOL				
15	005				
16	006 SOL				
17	007				
18	008 SOL				
	009				
	010 SOL				
21	9504G177-001 5x				F762/STD/H2O
22	002 5x				
23	003 10x				
24	004 5x				
25	005 3x				
26	~~9506F768-MBJ~~				~~CLP/SOIL/F768~~
27	LCJ				
28	~~9504G211-011~~				
29	012				
30	013				
31	014				
32	015				
33	(R)				
34	(S)				
35	BPN 4/12/95				
36					
37					
38					
39	25.00 PPB QA SOLN.				
40	BLANK H2O				

Analyst: [signature] Date: 4/12/95

Reviewer: [signature] Date: 4/12/95

CONT'D on P.67

Element Fi. . PB_CLP.GEL
Element: Pb Analyst: BPH/PFK
Print Data: Main+Suppl. Peak Storage: None
Remarks:
Pb Matrix Modifier = 5uL Pd(NO3)2 & Mg(NO3)2
ANALYST---BRYAN HOST/PAUL KOLARCZYK
Standards 1276-74-6 ; QC 1276-73-7
EDL SERIAL #7490
IDL 1.2

INSTRUMENT: 5100 Technique: HGA
Wavelength: 283.3 Peak Slit: 0.70 Low
Signal Type: Zeeman AA Signal Measurement: Peak Area
Read Time: 5.0 Read Delay: 0.0 BOC Time: 1
Sample Replicates: 2 if <= 50 ug/L, 2 if > 50.1 ug/L, else 2
Standard Replicates: 2 Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	S0.0		40	20	8	5	
Standard 1	S3.0	3.00	4	20	8	5	
Standard 2	S10.0	10.00	5	4	24	5	
Standard 3	S30.0	30.00	5	12	16	5	
Standard 4	S50.0	50.00	1	10	18	5	
Standard 5	S70.0	70.00	1	14	14	5	
Samples				20	8	5	

Diluent Location: 40
Modifier #1 Location: 0 Modifier #2 Location:
Calibration Units: ug/L Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	90	6	2	300		Norm
2	120	15	14	300		Norm
3	900	25	10	300		Norm
4	20	1	10	300		Norm
5	1800	0	5	0	*	Norm
6	2500	1	5	300		Norm

Injection Temp: 20 Pipette Speed: 100%

SEQUENCE:

Step	Action and Parameters
1	Pipet diluent + modifier 1 + modifier 2 + spike + sample/std
2	Run HGA steps 1 to End

Element File: PB_CLP.GEL Element: Pb Wavelength: 283.3
Date: 04/12/95 Time: 09:17 Slit: 0.70 L
Data File: PB0412R1.DAT ID/Wt File: PB041201.IDW Lamp Current: 10
Technique: HGA Calib. Type: Linear Energy: 58
Remark 1: Pb Matrix Modifier = 5uL Pd(NO3)2 & Mg(NO3)2
Remark 2: ANALYST---BRYAN HOST/PAUL KOLARCZYK
Remark 3: Standards 1276-74-6 ; QC 1276-73-7
Remark 4: EDL SERIAL #7490
Remark 5: IDL 1.2

Pb ID: S0.0 Seq. No.: 00001 A/S Pos.: 40 Date: 04/12/95

Replicate 1 Time: 09:43
Peak Area (A-s): 0.000 Peak Height (A): 0.005
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.000

Replicate 2 Time: 09:46
Peak Area (A-s): 0.001 Peak Height (A): 0.005
Background Pk Area (A-s): 0.000 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.001

Mean Pk Area (A-s): 0.001 SD: 0.0006 RSD(%): 108.49

Auto-zero performed.

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Pb ID: S3.0 Seq. No.: 00002 A/S Pos.: 4 Date: 04/12/95

Replicate 1 Time: 09:48
Peak Area (A-s): 0.021 Peak Height (A): 0.023
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): 0.020

Replicate 2 Time: 09:51
Peak Area (A-s): 0.018 Peak Height (A): 0.023
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.017

Mean Pk Area (A-s): 0.019 SD: 0.0021 RSD(%): 11.40

Standard number 1 applied. [3.00]
Correlation coefficient: 1.00000 Slope: 0.0062 Int: 0.000

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Pb ID: S10.0 Seq. No.: 00003 A/S Pos.: 5 Date: 04/12/95

Replicate 1 Time: 09:53
Peak Area (A-s): 0.067 Peak Height (A): 0.065
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.067
Concentration (ug/L): 10.76

Replicate 2 Time: 09:56

Replicate 2 Time: 09:56
Peak Area (A-s): 0.067 Peak Height (A): 0.063
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): 0.067
Concentration (ug/L): 10.74

Mean Conc (ug/L): 10.75 SD: 0.009 RSD(%): 0.08

Standard number 2 applied. [10.00]
Correlation coefficient: 0.99974 Slope: 0.0067 Int: -0.001

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Pb ID: S30.0 Seq. No.: 00004 A/S Pos.: 5 Date: 04/12/95

Replicate 1 Time: 09:58
Peak Area (A-s): 0.186 Peak Height (A): 0.188
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.185
Concentration (ug/L): 27.72

Replicate 2 Time: 10:01
Peak Area (A-s): 0.187 Peak Height (A): 0.194
Background Pk Area (A-s): 0.048 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.186
Concentration (ug/L): 27.91

Mean Conc (ug/L): 27.82 SD: 0.129 RSD(%): 0.46

Standard number 3 applied. [30.00]
Correlation coefficient: 0.99960 Slope: 0.0062 Int: 0.001

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Pb ID: S50.0 Seq. No.: 00005 A/S Pos.: 1 Date: 04/12/95

Replicate 1 Time: 10:03
Peak Area (A-s): 0.303 Peak Height (A): 0.268
Background Pk Area (A-s): 0.079 Background Pk Height (A): 0.070
Blank Corrected Pk Area (A-s): 0.302
Concentration (ug/L): 48.69

Replicate 2 Time: 10:06
Peak Area (A-s): 0.297 Peak Height (A): 0.286
Background Pk Area (A-s): 0.079 Background Pk Height (A): 0.076
Blank Corrected Pk Area (A-s): 0.296
Concentration (ug/L): 47.73

Mean Conc (ug/L): 48.21 SD: 0.674 RSD(%): 1.40

Standard number 4 applied. [50.00]
Correlation coefficient: 0.99963 Slope: 0.0060 Int: 0.003

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Pb ID: S70.0 Seq. No.: 00006 A/S Pos.: 1 Date: 04/12/95

Replicate 1 Time: 10:08
Peak Area (A-s): 0.418 Peak Height (A): 0.362
Background Pk Area (A-s): 0.114 Background Pk Height (A): 0.102
Blank Corrected Pk Area (A-s): 0.417
Concentration (ug/L): 69.28
~~~~~~

Replicate 2 Time: 10:11
Peak Area (A-s): 0.426 Peak Height (A): 0.360
Background Pk Area (A-s): 0.113 Background Pk Height (A): 0.097
Blank Corrected Pk Area (A-s): 0.426
Concentration (ug/L): 70.71

Mean Conc (ug/L): 69.99 SD: 1.006 RSD(%): 1.44

Standard number 5 applied. [70.00]
Correlation coefficient: 0.99984 Slope: 0.0060 Int: 0.003

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Pb ID: AICV Seq. No.: 00007 A/S Pos.: 39 Date: 04/12/95

Replicate 1 Time: 10:13
Peak Area (A-s): 0.158 Peak Height (A): 0.140
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.157
Concentration (ug/L): 25.81

Replicate 2 Time: 10:16
Peak Area (A-s): 0.153 Peak Height (A): 0.135
Background Pk Area (A-s): 0.042 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.152
Concentration (ug/L): 25.01

Mean Conc (ug/L): 25.41 SD: 0.561 RSD(%): 2.21

QC sample is within range 22.5 - 27.5

~~~~~~

Pb ID: ICB Seq. No.: 00008 A/S Pos.: 3 Date: 04/12/95

Replicate 1 Time: 10:18
Peak Area (A-s): -0.002 Peak Height (A): 0.006
Background Pk Area (A-s): -0.000 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -0.90

Replicate 2 Time: 10:21
Peak Area (A-s): -0.003 Peak Height (A): 0.004
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -1.07

Mean Conc (ug/L): -0.98 SD: 0.117 RSD(%): 11.89

QC sample is within range -3.0 - 2.0

~~~~~~

Pb ID: CRA Seq. No.: 00009 A/S Pos.: 4 Date: 04/12/95

Replicate 1 Time: 10:23
Peak Area (A-s): 0.017 Peak Height (A): 0.023
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.017
Concentration (ug/L): 2.38

Replicate : Time: 10:26
Peak Area (A-s): 0.018 Peak Height (A): 0.020
~~~~~~

Peak Area (A-s): 0.018 Peak Height (A): 0.020
Backgrou Pk Area (A-s): 0.004 Background Pk Height (A): 0.
Blank Co cted Pk Area (A-s): 0.018
Concentration (ug/L): 2.51

Mean Conc (ug/L): 2.44 SD: 0.088 RSD(%): 3.59

QC sample is within range 1.5 - 4.5

369

~~~~~~

Pb ID: ACCV Seq. No.: 00010 A/S Pos.: 2 Date: 04/12/95

Replicate 1 Time: 10:28
Peak Area (A-s): 0.218 Peak Height (A): 0.175
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.217
Concentration (ug/L): 35.84

Replicate 2 Time: 10:31
Peak Area (A-s): 0.223 Peak Height (A): 0.202
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.222
Concentration (ug/L): 36.71

Mean Conc (ug/L): 36.27 SD: 0.611 RSD(%): 1.69

QC sample is within range 31.5 - 38.5

~~~~~~

Pb ID: CCB Seq. No.: 00011 A/S Pos.: 3 Date: 04/12/95

Replicate 1 Time: 10:33
Peak Area (A-s): -0.000 Peak Height (A): 0.006
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.59

Replicate 2 Time: 10:36
Peak Area (A-s): -0.001 Peak Height (A): 0.004
Background Pk Area (A-s): 0.000 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.79

Mean Conc (ug/L): -0.69 SD: 0.143 RSD(%): 20.76

QC sample is within range -3.0 - 2.0

~~~~~~

Pb ID: 95GF767-LC1 Seq. No.: 00012 A/S Pos.: 6 Date: 04/12/95

Replicate 1 Time: 10:39
Peak Area (A-s): 0.110 Peak Height (A): 0.109
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.109
Concentration (ug/L): 17.85

F767 / CLP / H2O

Replicate 2 Time: 10:41
Peak Area (A-s): 0.112 Peak Height (A): 0.112
Backgrour 'k Area (A-s): 0.030 Background Pk Height (A): (9
Blank Cor .ted Pk Area (A-s): 0.111
Concentration (ug/L): 18.17
~~~~~~

Blank Corrected Pk Area (A-s): 0.111
Concentration (ug/L): 18.17

Mean Conc (ug/L): 18.01 SD: 0.228 RSD(%): 1.27

~~~~~~

Pb ID: 95GF767-LC1 Seq. No.: 00013 A/S Pos.: 6 Date: 04/12/95

Replicate 1 Time: 10:43
Peak Area (A-s): 0.243 Peak Height (A): 0.208
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.243
Concentration (ug/L): 40.11

Replicate 2 Time: 10:46
Peak Area (A-s): 0.218 Peak Height (A): 0.195
Background Pk Area (A-s): 0.056 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.218
Concentration (ug/L): 35.96

Mean Conc (ug/L): 38.03 SD: 2.939 RSD(%): 7.73

Recovery is 100.1%

~~~~~~

Pb ID: 9504G211-001 Seq. No.: 00014 A/S Pos.: 7 Date: 04/12/95

Replicate 1 Time: 10:48

Peak Area (A-s): 0.002 Peak Height (A): 0.008
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.18

Replicate 2 Time: 10:51
Peak Area (A-s): -0.000 Peak Height (A): 0.009
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.60

Mean Conc (ug/L): -0.39 SD: 0.300 RSD(%): 76.40

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Pb ID: 9504G211-001 Seq. No.: 00015 A/S Pos.: 7 Date: 04/12/95

Replicate 1 Time: 10:53
Peak Area (A-s): 0.119 Peak Height (A): 0.202
Background Pk Area (A-s): 0.069 Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.118
Concentration (ug/L): 19.26

Replicate 2 Time: 10:56
Peak Area (A-s): 0.117 Peak Height (A): 0.196
Background Pk Area (A-s): 0.063 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.117
Concentration (ug/L): 19.07

Mean Conc (ug/L): 19.17 SD: 0.140 RSD[illegible]: 0.73

Recovery 97.8%
~~~~~~

Pb ID: 9504G211-001R Seq. No.: 00016 A/S Pos.: 8 Date: 04/12/95

Replicate 1 Time: 10:58
Peak Area (A-s): 0.001 Peak Height (A): 0.009
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.37

Replicate 2 Time: 11:01
Peak Area (A-s): 0.001 Peak Height (A): 0.009
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.46

Mean Conc (ug/L): -0.42 SD: 0.059 RSD(%): 14.26

Pb ID: 9504G211-001R Seq. No.: 00017 A/S Pos.: 8 Date: 04/12/95

Replicate 1 Time: 11:03
Peak Area (A-s): 0.117 Peak Height (A): 0.200
Background Pk Area (A-s): 0.060 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.116
Concentration (ug/L): 18.95

Replicate 2 Time: 11:06

Peak Area (A-s): 0.115 Peak Height (A): 0.197
Background Pk Area (A-s): 0.062 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.114
Concentration (ug/L): 18.66

Mean Conc (ug/L): 18.81 SD: 0.205 RSD(%): 1.09

Recovery is 96.1% 94.0%.

Pb ID: 9504G211-001S Seq. No.: 00018 A/S Pos.: 9 Date: 04/12/95

Replicate 1 Time: 11:08
Peak Area (A-s): 0.089 Peak Height (A): 0.161
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.088
Concentration (ug/L): 14.33

Replicate 2 Time: 11:11
Peak Area (A-s): 0.108 Peak Height (A): 0.197
Background Pk Area (A-s): 0.065 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.107
Concentration (ug/L): 17.44

Mean Conc (ug/L): 15.89 79.4% SD: 2.197 RSD(%): 13.83

Pb ID: 9504G211-001S Seq. No.: 00019 A/S Pos.: 9 Date: 04/12/95

Replicate Time: 11:13
Peak Area -s): 0.213 Peak Height (A): 0.375
Background Pk Area (A-s): 0.088 Background Pk Height (A): 0.101
Blank Corrected Pk Area (A-s): 0.213

Background Pk Area (A-s): 0.088 Background Pk Height (A): 0.101
Blank Corrected Pk Area (A-s): 0.213
Concentration (ug/L): 35.10

372

Replicate 2 Time: 11:16
Peak Area (A-s): 0.214 Peak Height (A): 0.359
Background Pk Area (A-s): 0.087 Background Pk Height (A): 0.098
Blank Corrected Pk Area (A-s): 0.214
Concentration (ug/L): 35.24

Mean Conc (ug/L): 35.17 SD: 0.103 RSD(%): 0.29

Recovery is 96.4% ✓

~~~~~~

Pb ID: ACCV Seq. No.: 00020 A/S Pos.: 2 Date: 04/12/95

Replicate 1 Time: 11:18
Peak Area (A-s): 0.203 Peak Height (A): 0.176
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): 0.202
Concentration (ug/L): 33.35

Replicate 2 Time: 11:21
Peak Area (A-s): 0.205 Peak Height (A): 0.171
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.204
Concentration (ug/L): 33.68

Mean Conc (ug/L): 33.52 SD: 0.233 RSD(%): 0.69 ✓

QC sample is within range 31.5 - 38.5 ✓

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Pb ID: CCB Seq. No.: 00021 A/S Pos.: 3 Date: 04/12/95

Replicate 1 Time: 11:23
Peak Area (A-s): -0.000 Peak Height (A): 0.005
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.60

Replicate 2 Time: 11:26
Peak Area (A-s): -0.003 Peak Height (A): 0.004
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -1.05

Mean Conc (ug/L): -0.83 SD: 0.320 RSD(%): 38.68

QC sample is within range -3.0 - 2.0 ✓

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Pb ID: 9504G211-002 Seq. No.: 00022 A/S Pos.: 10 Date: 04/12/95

Replicate 1 Time: 11:28
Peak Area (A-s): 0.001 Peak Height (A): 0.009
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.39

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Replicate 2 Time: 11:31
~~~~~~

Replicate 2 Time: 11:31
Peak Area (A-s): 0.001 Peak Height (A): 0.012
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.35

Mean Conc (ug/L): -0.37 SD: 0.028 RSD(%): 7.53

~~~~~~

Pb ID: 9504G211-002 Seq. No.: 00023 A/S Pos.: 10 Date: 04/12/95

Replicate 1 Time: 11:33
Peak Area (A-s): 0.111 Peak Height (A): 0.208
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.111
Concentration (ug/L): 18.04

Replicate 2 Time: 11:36
Peak Area (A-s): 0.117 Peak Height (A): 0.213
Background Pk Area (A-s): 0.060 Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.117
Concentration (ug/L): 19.05

Mean Conc (ug/L): 18.55 SD: 0.713 RSD(%): 3.84 ✓

Recovery is 94.6% 92.8%

~~~~~~

Pb ID: 9504G211-002R Seq. No.: 00024 A/S Pos.: 11 Date: 04/12/95

Replicate 1 Time: 11:38
Peak Area (A-s): 0.006 Peak Height (A): 0.013
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 0.41

Replicate 2 Time: 11:41
Peak Area (A-s): 0.001 Peak Height (A): 0.009
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.38

Mean Conc (ug/L): 0.01 SD: 0.561 RSD(%): 4449.07

~~~~~~

Pb ID: 9504G211-002R Seq. No.: 00025 A/S Pos.: 11 Date: 04/12/95

Replicate 1 Time: 11:43
Peak Area (A-s): 0.102 Peak Height (A): 0.153
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.101
Concentration (ug/L): 16.45

Replicate 2 Time: 11:46
Peak Area (A-s): 0.116 Peak Height (A): 0.213
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.055
Blank Corr ed Pk Area (A-s): 0.115
Concentrat (ug/L): 18.80
~~~~~~

Mean Conc (ug/L): 17.63 SD: 1.661 RSD(%): 9.42 ✓

Recovery is 88.1% 88.2%

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Pb ID: 9504G211-002S Seq. No.: 00026 A/S Pos.: 12 Date: 04/12/95

Replicate 1 Time: 11:48
Peak Area (A-s): 0.106 Peak Height (A): 0.204
Background Pk Area (A-s): 0.063 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.106
Concentration (ug/L): 17.21

Replicate 2 Time: 11:51
Peak Area (A-s): 0.088 Peak Height (A): 0.180
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.087
Concentration (ug/L): 14.15 -0.00 / 20.00 = 78.4%

Mean Conc (ug/L): 15.68 SD: 2.166 RSD(%): 13.82 ✓

~~~~~~

Pb ID: 9504G211-002S Seq. No.: 00027 A/S Pos.: 12 Date: 04/12/95

Replicate 1 Time: 11:53
Peak Area (A-s): 0.213 Peak Height (A): 0.379
Background Pk Area (A-s): 0.085 Background Pk Height (A): 0.102

Blank Corrected Pk Area (A-s): 0.213
Concentration (ug/L): 35.09

Replicate 2 Time: 11:55
Peak Area (A-s): 0.218 Peak Height (A): 0.372
Background Pk Area (A-s): 0.087 Background Pk Height (A): 0.101
Blank Corrected Pk Area (A-s): 0.218
Concentration (ug/L): 35.93

Mean Conc (ug/L): 35.51 SD: 0.595 RSD(%): 1.67 ✓

Recovery is 99.2% ✓

~~~~~~

Pb ID: 9504G211-003 Seq. No.: 00028 A/S Pos.: 13 Date: 04/12/95

Replicate 1 Time: 11:58
Peak Area (A-s): 0.308 Peak Height (A): 0.416
Background Pk Area (A-s): 0.193 Background Pk Height (A): 0.113
Blank Corrected Pk Area (A-s): 0.308
Concentration (ug/L): 50.95

Replicate 2 Time: 12:00
Peak Area (A-s): 0.261 Peak Height (A): 0.340
Background Pk Area (A-s): 0.215 Background Pk Height (A): 0.097
Blank Corrected Pk Area (A-s): 0.261
Concentration (ug/L): 43.13

Mean Conc (ug/L): 47.04 SD: 5.529 RSD(%): 11.75 ✓

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Pb ID: J4G211-003 Seq. No.: 00029 A/S Pos.: 13 Dat. J4/12/95

Pb ID 504G211-003 Seq. No.: 00029 A/S Pos.: 13 Dat 04/12/95

Replicate 1 Time: 12:03
Peak Area (A-s): 0.400 Peak Height (A): 0.502
Background Pk Area (A-s): 0.243 Background Pk Height (A): 0.142
Blank Corrected Pk Area (A-s): 0.399
Concentration (ug/L): 66.27

Replicate 2 Time: 12:05
Peak Area (A-s): 0.404 Peak Height (A): 0.484
Background Pk Area (A-s): 0.227 Background Pk Height (A): 0.137
Blank Corrected Pk Area (A-s): 0.404
Concentration (ug/L): 66.98

Mean Conc (ug/L): 66.63 SD: 0.505 RSD(%): 0.76

Recovery is 97.9%

375

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Pb ID: ACCV 3 Seq. No.: 00030 A/S Pos.: 2 Date: 04/12/95

Replicate 1 Time: 12:08
Peak Area (A-s): 0.205 Peak Height (A): 0.196
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.204
Concentration (ug/L): 33.69

Replicate 2 Time: 12:10

Peak Area (A-s): 0.195 Peak Height (A): 0.181
Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.195
Concentration (ug/L): 32.08

Mean Conc (ug/L): 32.89 SD: 1.140 RSD(%): 3.47

QC sample is within range 31.5 - 38.5

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Pb ID: CCB 3 Seq. No.: 00031 A/S Pos.: 3 Date: 04/12/95

Replicate 1 Time: 12:13
Peak Area (A-s): -0.002 Peak Height (A): 0.005
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.82

Replicate 2 Time: 12:15
Peak Area (A-s): -0.000 Peak Height (A): 0.005
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.58

Mean Conc (ug/L): -0.70 SD: 0.171 RSD(%): 24.49

QC sample is within range -3.0 - 2.0

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Pb ID: 04G211-004 Seq. No.: 00032 A/S Pos.: 14 Dat 04/12/95

Replicate 1 Time: 12:18
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Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 0.20

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376

Replicate 2	Time: 12:20
Peak Area (A-s): 0.006	Peak Height (A): 0.014
Background Pk Area (A-s): 0.023	Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): 0.005	
Concentration (ug/L): 0.43	

Mean Conc (ug/L): 0.31 SD: 0.162 RSD(%): 52.31

~~~~~~

Pb ID: 9504G211-004 Seq. No.: 00033 A/S Pos.: 14 Date: 04/12/95

Replicate 1	Time: 12:23
Peak Area (A-s): 0.112	Peak Height (A): 0.192
Background Pk Area (A-s): 0.044	Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.112	
Concentration (ug/L): 18.21	

Replicate 2	Time: 12:25
Peak Area (A-s): 0.119	Peak Height (A): 0.192
Background Pk Area (A-s): 0.045	Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.118	
Concentration (ug/L): 19.27	

Mean Conc (ug/L): 18.74 SD: 0.752 RSD(%): 4.01 ✓

Recovery is 92.2% 93.7%

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Pb ID: 9504G211-005 Seq. No.: 00034 A/S Pos.: 15 Date: 04/12/95

Replicate 1	Time: 12:28
Peak Area (A-s): 0.013	Peak Height (A): 0.024
Background Pk Area (A-s): 0.028	Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.012	
Concentration (ug/L): 1.60	

Replicate 2	Time: 12:30
Peak Area (A-s): 0.011	Peak Height (A): 0.027
Background Pk Area (A-s): 0.026	Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.011	
Concentration (ug/L): 1.36	

Mean Conc (ug/L): 1.48 SD: 0.165 RSD(%): 11.16 ✓

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Pb ID: 9504G211-005 Seq. No.: 00035 A/S Pos.: 15 Date: 04/12/95

Replicate 1	Time: 12:33
Peak Area (A-s): 0.123	Peak Height (A): 0.188
Background Pk Area (A-s): 0.052	Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.122	
Concentration (ug/L): 19.93	

Replicate 2	Time: 12:35
Peak Area (A-s): 0.121	Peak Height (A): 0.183
Backgroun Area (A-s): 0.055	Background Pk Height (A): 0 ;
Blank Co ted Pk Area (A-s): 0.120	
Concentration (ug/L): 19.61	
~~~~~~

Concentr on (ug/L): 19.61

Mean Conc (ug/L): 19.77 SD: 0.224 RSD(%): 1.13

Recovery is 91.5%

~~~~~~

Pb ID: 9504G211-006 Seq. No.: 00036 A/S Pos.: 16 Date: 04/12/95

Replicate 1 Time: 12:38
Peak Area (A-s): 0.005 Peak Height (A): 0.013
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 0.21

DIGESTED SOL

Replicate 2 Time: 12:40
Peak Area (A-s): 0.004 Peak Height (A): 0.011
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.11

Mean Conc (ug/L): 0.16 SD: 0.068 RSD(%): 41.96

~~~~~~

Pb ID: 9504G211-006 Seq. No.: 00037 A/S Pos.: 16 Date: 04/12/95

Replicate 1 Time: 12:43
Peak Area (A-s): 0.119 Peak Height (A): 0.194
Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.119
Concentration (ug/L): 19.38

Replicate 2 Time: 12:45
Peak Area (A-s): 0.116 Peak Height (A): 0.191
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.115
Concentration (ug/L): 18.85

Mean Conc (ug/L): 19.11 SD: 0.375 RSD(%): 1.96

Recovery is 94.7% 95.6%

~~~~~~

Pb ID: 9504G211-007 Seq. No.: 00038 A/S Pos.: 17 Date: 04/12/95

Replicate 1 Time: 12:48
Peak Area (A-s): 0.007 Peak Height (A): 0.016
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 0.59

Replicate 2 Time: 12:50
Peak Area (A-s): 0.017 Peak Height (A): 0.032
Background Pk Area (A-s): 0.062 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.016
Concentrat (ug/L): 2.26

ok +/- DL

Mean Conc (ug/L): 1.43 SD: 1.183 RSD(%): 82.85
~~~~~~

Mean Conc (ug/L): 1.43 SD: [illegible] RSD(%): [illegible]2.85

~~~~~~

Pb ID: 9504G211-007 Seq. No.: 00039 A/S Pos.: 17 Date: 04/12/95 378

Replicate 1 Time: 12:52
Peak Area (A-s): 0.131 Peak Height (A): 0.198
Background Pk Area (A-s): 0.088 Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.130
Concentration (ug/L): 21.35

Replicate 2 Time: 12:55
Peak Area (A-s): 0.130 Peak Height (A): 0.189
Background Pk Area (A-s): 0.096 Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.129
Concentration (ug/L): 21.15

Mean Conc (ug/L): 21.25 SD: 0.138 RSD(%): 0.65

Recovery is 99.1%

~~~~~~

Pb ID: ACCV Seq. No.: 00040 A/S Pos.: 2 Date: 04/12/95

Replicate 1 Time: 12:57

Peak Area (A-s): 0.201 Peak Height (A): 0.180
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): 0.201
Concentration (ug/L): 33.09

Replicate 2 Time: 13:00
Peak Area (A-s): 0.193 Peak Height (A): 0.180
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): 0.193
Concentration (ug/L): 31.75

Mean Conc (ug/L): 32.42 SD: 0.945 RSD(%): 2.92

QC sample is within range 31.5 - 38.5

~~~~~~

Pb ID: CCB Seq. No.: 00041 A/S Pos.: 3 Date: 04/12/95

Replicate 1 Time: 13:02
Peak Area (A-s): -0.002 Peak Height (A): 0.005
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -0.90

Replicate 2 Time: 13:05
Peak Area (A-s): -0.000 Peak Height (A): 0.005
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.59

Mean Conc (ug/L): -0.74 SD: 0.222 RSD(%): 29.93

QC sample within range -3.0 - 2.0

~~~~~~

Pb ID: 9504G211-008 Seq. No.: 00042 A/S Pos.: 18 Date: 04/12/95

Replicate 1 Time: 13:07
Peak Area (A-s): 0.004 Peak Height (A): 0.012
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.09

DIGESTED SOL

Replicate 2 Time: 13:10
Peak Area (A-s): 0.005 Peak Height (A): 0.014
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 0.28

Mean Conc (ug/L): 0.19 SD: 0.130 RSD(%): 69.64

Pb ID: 9504G211-008 Seq. No.: 00043 A/S Pos.: 18 Date: 04/12/95

Replicate 1 Time: 13:12
Peak Area (A-s): 0.122 Peak Height (A): 0.198
Background Pk Area (A-s): 0.072 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.121
Concentration (ug/L): 19.79

Replicate 2 Time: 13:15
Peak Area (A-s): 0.115 Peak Height (A): 0.185
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.114
Concentration (ug/L): 18.66

Mean Conc (ug/L): 19.22 SD: 0.797 RSD(%): 4.15

Recovery is 95.2% 96.1%

Pb ID: 9504G211-009 Seq. No.: 00044 A/S Pos.: 19 Date: 04/12/95

Replicate 1 Time: 13:17
Peak Area (A-s): 0.034 Peak Height (A): 0.050
Background Pk Area (A-s): 0.131 Background Pk Height (A): 0.117
Blank Corrected Pk Area (A-s): 0.034
Concentration (ug/L): 5.22

Replicate 2 Time: 13:20
Peak Area (A-s): 0.038 Peak Height (A): 0.073
Background Pk Area (A-s): 0.111 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.038
Concentration (ug/L): 5.83

Mean Conc (ug/L): 5.52 SD: 0.432 RSD(%): 7.82

Pb ID: 9504G211-009 Seq. No.: 00045 A/S Pos.: 19 Date: 04/12/95

Replicate 1 Time: 13:22
Peak Area (A-s): 0.151 Peak Height (A): 0.264
Background Area (A-s): 0.116 Background Pk Height (A): 0.
Blank Corrected Pk Area (A-s): 0.151
Concentration (ug/L): 24.72

Concentration (ug/L): 24.72

Replicate 2 Time: 13:25
Peak Area (A-s): 0.152 Peak Height (A): 0.271
Background Pk Area (A-s): 0.115 Background Pk Height (A): 0.076
Blank Corrected Pk Area (A-s): 0.151
Concentration (ug/L): 24.81

380

Mean Conc (ug/L): 24.77 SD: 0.065 RSD(%): 0.26

Recovery is 96.2% ✓

~~~~~~

Pb ID: 9504G211-010 Seq. No.: 00046 A/S Pos.: 20 Date: 04/12/95

Replicate 1 Time: 13:27
Peak Area (A-s): 0.008 Peak Height (A): 0.017
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.075
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 0.82

DIGESTED SOL

Replicate 2 Time: 13:29
Peak Area (A-s): 0.008 Peak Height (A): 0.017
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): 0.007

Concentration (ug/L): 0.72

Mean Conc (ug/L): 0.77 SD: 0.066 RSD(%): 8.60

~~~~~~

Pb ID: 9504G211-010 Seq. No.: 00047 A/S Pos.: 20 Date: 04/12/95

Replicate 1 Time: 13:32
Peak Area (A-s): 0.116 Peak Height (A): 0.203
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.115
Concentration (ug/L): 18.84

Replicate 2 Time: 13:34
Peak Area (A-s): 0.112 Peak Height (A): 0.211
Background Pk Area (A-s): 0.062 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.111
Concentration (ug/L): 18.15

Mean Conc (ug/L): 18.50 92.5% SD: 0.486 RSD(%): 2.63 ✓

Recovery is 88.6%

~~~~~~

Pb ID: 9504G177-001 5X Seq. No.: 00048 A/S Pos.: 21 Date: 04/12/95

W

Replicate 1 Time: 13:37
Peak Area (A-s): 0.051 Peak Height (A): 0.100
Background Pk Area (A-s): 0.151 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.050
Concentration (ug/L): 7.94

F7G2/STD/H2O

Replicate Time: 13:39
Peak Area -s): 0.049 Peak Height (A): 0.095
Background Pk Area (A-s): 0.153 Background Pk Height (A): 0.067
~~~~~~

Background Pk Area (A-s): 0.153 Background Pk Height (A): 0.0?7
Blank Co cted Pk Area (A-s): 0.049
Concentration (ug/L): 7.66

Mean Conc (ug/L): 7.80 SD: 0.198 RSD(%): 2.53

Pb ID: 9504G177-001 5X Seq. No.: 00049 A/S Pos.: 21 Date: 04/12/95

Replicate 1 Time: 13:42
Peak Area (A-s): 0.137 Peak Height (A): 0.214
Background Pk Area (A-s): 0.249 Background Pk Height (A): 0.168
Blank Corrected Pk Area (A-s): 0.136
Concentration (ug/L): 22.32

Replicate 2 Time: 13:44
Peak Area (A-s): 0.163 Peak Height (A): 0.326
Background Pk Area (A-s): 0.175 Background Pk Height (A): 0.115
Blank Corrected Pk Area (A-s): 0.163
Concentration (ug/L): 26.76

Mean Conc (ug/L): 24.54 SD: 3.142 RSD(%): 12.80

Recovery is 83.7% ✓

Pb ID: ACCV Seq. No.: 00050 A/S Pos.: 2 Date: 04/12/95

Replicate 1 Time: 13:47
Peak Area (A-s): 0.196 Peak Height (A): 0.175
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.195
Concentration (ug/L): 32.17

Replicate 2 Time: 13:49
Peak Area (A-s): 0.197 Peak Height (A): 0.175
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.197
Concentration (ug/L): 32.41

Mean Conc (ug/L): 32.29 SD: 0.172 RSD(%): 0.53

QC sample is within range 31.5 - 38.5

Pb ID: CCB Seq. No.: 00051 A/S Pos.: 3 Date: 04/12/95

Replicate 1 Time: 13:52
Peak Area (A-s): -0.003 Peak Height (A): 0.004
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -1.07

Replicate 2 Time: 13:54
Peak Area (A-s): -0.000 Peak Height (A): 0.005
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.62

Mean Conc (ug/L): -0.84 SD: 0.321 RSD(%): 38.08

Mean Conc (ug/L): -0.84 SD: 0.321 RSD(%): 38.08

QC sample is within range -3.0 - 2.0

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Pb ID: 9504G177-002 5X Seq. No.: 00052 A/S Pos.: 22 Date: 04/12/95

Replicate 1 Time: 13:57
Peak Area (A-s): 0.033 Peak Height (A): 0.053
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.032
Concentration (ug/L): 4.94

Replicate 2 Time: 13:59
Peak Area (A-s): 0.034 Peak Height (A): 0.059
Background Pk Area (A-s): 0.034 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.033
Concentration (ug/L): 5.12

Mean Conc (ug/L): 5.03 SD: 0.128 RSD(%): 2.55

~~~~~~

Pb ID: 9504G177-002 5X Seq. No.: 00053 A/S Pos.: 22 Date: 04/12/95

Replicate 1 Time: 14:02

Peak Area (A-s): 0.140 Peak Height (A): 0.193
Background Pk Area (A-s): 0.059 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.139
Concentration (ug/L): 22.81

Replicate 2 Time: 14:04
Peak Area (A-s): 0.144 Peak Height (A): 0.192
Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.143
Concentration (ug/L): 23.50

Mean Conc (ug/L): 23.15 SD: 0.486 RSD(%): 2.10

Recovery is 90.6%

~~~~~~

Pb ID: 9504G177-003 10 Seq. No.: 00054 A/S Pos.: 23 Date: 04/12/95

Replicate 1 Time: 14:07
Peak Area (A-s): 0.082 Peak Height (A): 0.128
Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.081
Concentration (ug/L): 13.13

Replicate 2 Time: 14:09
Peak Area (A-s): 0.083 Peak Height (A): 0.124
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.083
Concentration (ug/L): 13.38

Mean Conc (ug/L): 13.26 SD: 0.178 RSD(%): 1.34

~~~~~~

Pb ID: 9504G177-003 10 Seq. No.: 00055 A/S Pos.: 23 Date: 04/12/95

(1)

WESTON Analytics AA6.1 Report

Data File:PB041BB1 Date collected: 95/04/18 Time:
Method File: Date of Report: Time:
Analyst: DAK Remarks:

IDL = 0.5 ug/L *
New

ve 4/25/95 run 3

* AA7 0.78
AA3 1.2
AA6 0.5
report highest of the 3

	PB ppb				
AICV	27.10	MPBTO	1		10:10
ICB	-0.07	MPBTO	1		10:16
CRA	3.13	MPBTO	1		10:23
ACCV 1	37.41	MPBTO	1		10:29
CCB	-0.28	MPBTO	1		10:36
ACCV 2	37.41	MPBTO	1		10:58
CCB	-0.26	MPBTO	1		11:05
95GF784-MB1	0.48	MPBTO	1	95GF784	11:11
95GF784-LC1	23.79	MPBTO	1		11:25
ACCV 3	38.04	MPBTO	1		11:51
CCB	-0.15	MPBTO	1		11:58
9504G305-001	5.50	MPBTO	1		12:04
9504G305-001R	5.44	MPBTO	1		12:18
9504G305-001S	27.02	MPBTO	1		12:31
9504G305-002	2.77	MPBTO	1		12:44
ACCV 4	37.65	MPBTO	1		12:58
CCB	-0.28	MPBTO	1		13:04
9504G305-003	0.14	MPBTO	1		13:11
9504G305-004	2.22	MPBTO	1		13:24
9504G305-005	1.79	MPBTO	1		13:37
9504G305-006	0.60	MPBTO	1		13:51
ACCV 5	37.73	MPBTO	1		14:04
CCB	-0.80	MPBTO	1		14:10
9504G305-007	1.31	MPBTO	1		14:17
9504G305-008	29.04	MPBTO	1		14:30
9504G305-009	0.45	MPBTO	1		14:44
9504G305-010	0.14	MPBTO	1		14:57
ACCV 6	37.44	MPBTO	1		15:10
CCB	-0.59	MPBTO	1		15:17
9504G305-011	18.45	MPBTO	1		15:23
9504G305-012	3.79	MPBTO	1		15:36
9504G305-013	41.74	MPBTO	1		15:49
9504G305-014	2.24	MPBTO	1		16:03
ACCV 7	36.45	MPBTO	1		16:16
CCB	-0.90	MPBTO	1		16:22
9504G282-001	8.70	MPBTO	1		16:29
9504G282-002	0.86	MPBTO	1		16:42
9504G282-003	0.77	MPBTO	1		16:56
9504G282-004	1.17	MPBTO	1		17:09
ACCV 8	37.55	MPBTO	1		17:22
CCB	-0.38	MPBTO	1		17:28
9504G282-005	-0.20	MPBTO	1		17:35
95GF784-LC2	23.73	MPBTO	1	95GF784	17:48
95GF768-LC1	22.39	MPBTO	1	95GF768	18:14
ACCV 9	37.24	MPBTO	1		18:28
CCB	-0.86	MPBTO	1		18:34
9504G211-011	30.30	MPBTO	1		18:41
9504G211-012	46.78	MPBTO	1		18:54
9504G211-013	49.37	MPBTO	1		19:07
9504G211-014	37.32	MPBTO	1		19:20
ACCV 10	34.89	MPBTO	1		19:33
CCB	-0.54	MPBTO	1		19:40
9504G211-015	18.42	MPBTO	1		19:47
9504G211-015S	40.59	MPBTO	1		20:13
ACCV	36.97	MPBTO	1		20:39
CCB	-0.57	MPBTO	1		20:46
95GF785-LC1	22.34	MPBTO	1	95GF785	20:53
95GF785					

Debbie Kelly 4/19/95

updated 4/19/95

Dan [illegible] 4/19/95

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OP No. 21-21G-1541
Rev. 01; Eff. Date 12/15/94

WESTON Environmental Metrics, Inc.
AA6 - PE4100 GFAA Sample Analysis Log

Page: 131

Element: Pb
Lamp: HCl Current: 8 Energy: 65
Filename: Pb0418E
Prep Batch: _____

QC: a. Standard b

AS-71

LOC			Pb	Se	As	Tl	Ag	Cd
71	STD 1 CRA	(ug/L)	3	5	10	10	5	0.5
72	STD 2	"	10	10	20	20	10	1.0
73	STD 3	"	30	20	30	30	20	2.0
74	STD 4	"	50	40	50	50	40	4.0
75	STD 5	"	70	50	70	70	50	5.0
76	ICV/CCV	"	35	25	35	35	25	2.5
77	ICB/CCB	"	0	0	0	0	0	0
78	Modifier							
79	_____							
80	Diluent							
0	Spike Solution	"	40	20	40	40	10	2.0

	QC / Sample ID	Dil.	Rerun	MSA	Prep Batch
✓1	95GF784-MB1		✓		(Std H2O's)
2	-LC1				
3	-LC2		✓		
4	9504G305-001				
5	-001R				
6	-001S				
7	-002				
8	-003				
9	-004				
10	-005				
11	-006				
12	-007				
13	-008				
14	-009				
15	-010				
16	-011				
17	-012				
18	-013				
19	-014				
20	9504G282-001				
21	-002				
22	-003				
23	-004				
24	-005				
✓25	95GF784-LC2				
26	95GF768-MB1		✓		(CLP Soils)
27	-LC1				
28	9504G211-011				
29	-012				
30	-013				
31	-014				
32	-015				
33	-015R		✓	✓	
34	-015S				
35	95GF785-MB1				(Std H2O's)

	QC / Sample ID	Dil.	Rerun	MSA	P B
36	95GF785-LC1				(Std H2O's)
37	-LC2				
38	9504G268-001				
39	-002				
40	-003				
41	-004				
42	-005				
43	-006				
44	-007				
45	-008				
46	9504G302-001				
47	-001R				
48	-001S				
49	-002				
50	-004				
51	-005				
52	-006				
53	-007				
54	9504G330-001				
55	-002				
56	-003				
57	-004				
58	-005				
59	-006				
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69					
70					

AK 4/19/95

Analyst: Debbie Kelley Date: 4/18/95

Reviewer: Dan Kelley Date: 4/20/95

Element File: PBCLP080.GEL
Element: Pb Analyst: BH/DAK
Print Data: Main+Suppl. Peak Storage: None
Remarks:
STANDARDS 1276-74-2
ICV,CCV'S 1276-74-3
MODIFIER--PD(NO3)2 + MG(NO3)2
EDL SERIAL NO.= 932, HOLLOW CATHODE = 11547
ANALYSTS-- DEBBIE KELLY / BRIAN HAMENDE

INSTRUMENT: 4100 ZL Technique: HGA Version: 7.30
Wavelength: 283.3 Peak Slit: 0.70 Low
Signal Type: Zeeman AA Signal Measurement: Peak Area
Read Time: 6.0 Read Delay: 0.0 BOC Time: 2
Sample Replicates: 2 if (= 70.00 ug/L, 2 if) 70.00 ug/L, else 2
Standard Replicates: 2 Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	S0		77	20	15	4	
Standard 1	S3	3.00	71	20	15	4	
Standard 2	S10	10.00	72	20	15	4	
Standard 3	S30	30.00	73	20	15	4	
Standard 4	S50	50.00	74	20	15	4	
Standard 5	S70	70.00	75	20	15	4	
Samples				20	15	4	

Diluent Location: 80
Modifier #1 Location: 78 Modifier #2 Location:
Calibration Units: ug/L Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	120	7	30	250		Norm
2	230	20	20	250		Norm
3	300	5	15	250		Norm
4	500	4	10	250		Norm
5	1800	0	6	0	*	Norm
6	2400	1	10	250		Norm
7	20	1	5	250		Norm

Injection Temp: 120 Pipette Speed: 100% Extraction System: On

---

SEQUENCE:

Step	Action and Parameters
1	Pipet diluent + modifier 1 + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Completely Recalibrate
Locations: None

Conc. Above Calibration Action: Dilute & Reanalyze After All Reps
Alternate Sample Volumes (uL): 4
Run Alternate Volume Blanks: No

If %RSD > 20.0 and Concentration > 3.0 then Retry 1 times
Check %RSD on: Samples + Standards + QC Samples

Recovery Measurements:
10 uL of 40 ug/L Standard at Location 0 Gives 20.00 ug/L
Measure Recovery on Samples: 1-70
Add to QC Samples: No % Recovery Limits: 85.0 to 115.0

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Conc. Limits Upper	After Calib	Periodic Check	At End	Count As Sample
1	79	AICV	22.50	27.50	X			
2	77	ICB	-3.00	2.00	X			
3	71	CRA	1.50	4.50	X			X
4	76	ACCV	31.50	38.50	X	X	X	
5	77	CCB	-3.00	3.00	X	X	X	

Run Periodic QC Samples: Every 8
Out of Limit Action: Recalibrate and Rerun Samples

Matrix Check Calculations:
% Difference for Dupls: No Locations:
% Recovery for Spike: No Locations: Conc:

Element File: PBCLP080.GEL Element: Pb Wavelength: 283.3
Date: 04/18/95 Time: 09:24 Slit: 0.70 L
Data File: PB0418A1.DAT ID/Wt File: PB041801.IDW Lamp Current: 8
Technique: HGA Calib. Type: Linear Energy: 65
Remark 1: STANDARDS 1276-74-2
Remark 2: ICV,CCV'S 1276-74-3
Remark 3: MODIFIER--PD(NO3)2 + MG(NO3)2
Remark 4: EDL SERIAL NO.= 932, HOLLOW CATHODE = 11547
Remark 5: ANALYSTS-- DEBBIE KELLY / BRIAN HAMENDE

Debbie Kelly

Pb ID: S0 Seq. No.: 00001 A/S Pos.: 77 Date: 04/18/95

Replicate 1 Time: 09:27
Peak Area (A-s): -0.001 Peak Height (A): 0.003
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): -0.001

Replicate 2 Time: 09:31
Peak Area (A-s): -0.001 Peak Height (A): 0.004
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): -0.001

Mean Pk Area (A-s): -0.001 SD: 0.0001 RSD(%): 15.84

Auto-zero performed.

Pb ID: S3 Seq. No.: 00002 A/S Pos.: 71 Date: 04/18/95

Replicate 1 Time: 09:34
Peak Area (A-s): 0.013 Peak Height (A): 0.019
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.014

Replicate 2 Time: 09:37
Peak Area (A-s): 0.013 Peak Height (A): 0.019
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.013

Mean Pk Area (A-s): 0.014 SD: 0.0003 RSD(%): 2.55

Standard number 1 applied. [3.00]
Correlation coefficient: 1.00000 Slope: 0.0046 Int: 0.000

Pb ID: S10 Seq. No.: 00003 A/S Pos.: 72 Date: 04/18/95

Replicate 1 Time: 09:40
Peak Area (A-s): 0.042 Peak Height (A): 0.055
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): 0.043
Concentration (ug/L): 9.43

Replicate 2 Time: 09:44
Peak Area (A-s): 0.042 Peak Height (A): 0.057
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): 0.042

Concentration (ug/L): 9.28

Mean Conc (ug/L): 9.35 SD: 0.106 RSD(%): 1.13

Standard number 2 applied. [10.00]
Correlation coefficient: 0.99974 Slope: 0.0042 Int: 0.000

~~~~~~

Pb ID: S30 Seq. No.: 00004 A/S Pos.: 73 Date: 04/18/95

Replicate 1 Time: 09:47
Peak Area (A-s): 0.117 Peak Height (A): 0.163
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.118
Concentration (ug/L): 27.62

Replicate 2 Time: 09:50
Peak Area (A-s): 0.117 Peak Height (A): 0.166
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.118
Concentration (ug/L): 27.62

Mean Conc (ug/L): 27.62 SD: 0.002 RSD(%): 0.01

Standard number 3 applied. [30.00]
Correlation coefficient: 0.99952 Slope: 0.0039 Int: 0.002

~~~~~~

Pb ID: S50 Seq. No.: 00005 A/S Pos.: 74 Date: 04/18/95

Replicate 1 Time: 09:53
Peak Area (A-s): 0.191 Peak Height (A): 0.262
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.192
Concentration (ug/L): 48.99

Replicate 2 Time: 09:57
Peak Area (A-s): 0.194 Peak Height (A): 0.266
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.195
Concentration (ug/L): 49.70

Mean Conc (ug/L): 49.34 SD: 0.497 RSD(%): 1.01

Standard number 4 applied. [50.00]
Correlation coefficient: 0.99982 Slope: 0.0038 Int: 0.002

~~~~~~

Pb ID: S70 Seq. No.: 00006 A/S Pos.: 75 Date: 04/18/95

Replicate 1 Time: 10:00
Peak Area (A-s): 0.269 Peak Height (A): 0.387
Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.065
Blank Corrected Pk Area (A-s): 0.270
Concentration (ug/L): 69.76

Replicate 2 Time: 10:03
Peak Area (A-s): 0.269 Peak Height (A): 0.381
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.060
~~~~~~

Bkg... Pk Area (A-s): 0.045 ... Background Pk Height ...

Blank Corrected Pk Area (A-s): 0.270
Concentration (ug/L): 69.64

Mean Conc (ug/L): 69.70 SD: 0.079 RSD(%): 0.11

Standard number 5 applied. [70.00]
Correlation coefficient: 0.99991 Slope: 0.0038 Int: 0.002

~~~~~~

Pb ID: AICV Seq. No.: 00007 A/S Pos.: 79 Date: 04/18/95

Replicate 1 Time: 10:07
Peak Area (A-s): 0.104 Peak Height (A): 0.141
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.105
Concentration (ug/L): 26.78

Replicate 2 Time: 10:10
Peak Area (A-s): 0.106 Peak Height (A): 0.138
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.107
Concentration (ug/L): 27.42

Mean Conc (ug/L): 27.10 SD: 0.452 RSD(%): 1.67

QC sample is within range 22.50 - 27.50

~~~~~~

Pb ID: ICB Seq. No.: 00008 A/S Pos.: 77 Date: 04/18/95

Replicate 1 Time: 10:13
Peak Area (A-s): 0.002 Peak Height (A): 0.004
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.08

Replicate 2 Time: 10:16
Peak Area (A-s): 0.001 Peak Height (A): 0.003
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.22

Mean Conc (ug/L): -0.07 SD: 0.211 RSD(%): 294.08

QC sample is within range -3.00 - 2.00

~~~~~~

Pb ID: CRA Seq. No.: 00009 A/S Pos.: 71 Date: 04/18/95

Replicate 1 Time: 10:20
Peak Area (A-s): 0.013 Peak Height (A): 0.021
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.014
Concentration (ug/L): 3.11

Replicate 2 Time: 10:23
Peak Area (A-s): 0.014 Peak Height (A): 0.020
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.014
~~~~~~

Blank Corrected Pk Area (A-s): 0.014

Concentration (ug/L): 3.14

Mean Conc (ug/L): 3.13 SD: 0.025 RSD(%): 0.81

QC sample is within range 1.50 - 4.50

~~~~~~

Pb ID: ACCV Seq. No.: 00010 A/S Pos.: 76 Date: 04/18/95

Replicate 1 Time: 10:26
Peak Area (A-s): 0.144 Peak Height (A): 0.193
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.145
Concentration (ug/L): 37.32

Replicate 2 Time: 10:29
Peak Area (A-s): 0.145 Peak Height (A): 0.193
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.146
Concentration (ug/L): 37.50

Mean Conc (ug/L): 37.41 SD: 0.125 RSD(%): 0.33 ✓

QC sample is within range 31.50 - 38.50

~~~~~~

Pb ID: CCB Seq. No.: 00011 A/S Pos.: 77 Date: 04/18/95

Replicate 1 Time: 10:33
Peak Area (A-s): 0.001 Peak Height (A): 0.004
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.02

Replicate 2 Time: 10:36
Peak Area (A-s): -0.001 Peak Height (A): 0.003
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.53

Mean Conc (ug/L): -0.28 SD: 0.361 RSD(%): 130.02

QC sample is within range -3.00 - 3.00

~~~~~~

Pb ID: 95GF784-MB1 Seq. No.: 00012 A/S Pos.: 1 Date: 04/18/95

Replicate 1 Time: 10:39
Peak Area (A-s): 0.001 Peak Height (A): 0.005
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.14

Replicate 2 Time: 10:42
Peak Area (A-s): 0.001 Peak Height (A): 0.005
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.04
~~~~~~

Mean Conc (ug/L): -0.09 SD: 0.068 RSD(%): 76.54

~~~~~~

Pb ID: 95GF784-MB1 Seq. No.: 00013 A/S Pos.: 1 Date: 04/18/95

Rerun JAK 4/18/95

Replicate 1 Time: 10:46
Peak Area (A-s): 0.090 Peak Height (A): 0.130
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.091
Concentration (ug/L): 23.13

Replicate 2 Time: 10:49
Peak Area (A-s): 0.094 Peak Height (A): 0.132
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.094
Concentration (ug/L): 24.08

Mean Conc (ug/L): 23.61 SD: 0.671 RSD(%): 2.84

Recovery is 118.5% (outside of specified limits)

~~~~~~

Pb ID: ACCV Seq. No.: 00015 A/S Pos.: 76 Date: 04/18/95

Replicate 1 Time: 10:55
Peak Area (A-s): 0.144 Peak Height (A): 0.194
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.145
Concentration (ug/L): 37.32

Replicate 2 Time: 10:58
Peak Area (A-s): 0.145 Peak Height (A): 0.197
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.146
Concentration (ug/L): 37.50

Mean Conc (ug/L): 37.41 SD: 0.130 RSD(%): 0.35 ✓

~~~~~~

Pb ID: CCB Seq. No.: 00016 A/S Pos.: 77 Date: 04/18/95

Replicate 1 Time: 11:01
Peak Area (A-s): 0.000 Peak Height (A): 0.003
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.36

Replicate 2 Time: 11:05
Peak Area (A-s): 0.001 Peak Height (A): 0.003
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.15

Mean Conc (ug/L): -0.26 SD: 0.152 RSD(%): 59.32

~~~~~~

Pb ID 5GF784-MB1 Seq. No.: 00017 A/S Pos.: 1 D. 04/18/95

Replicate 1 Time: 11:08

Replicate 2 Time: 11:31

Peak Area (A-s): 0.174 Peak Height (A): 0.295
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.175
Concentration (ug/L): 45.06

Mean Conc (ug/L): 44.79 SD: 0.391 RSD(%): 0.87

Recovery is 105.0% ✓

~~~~~~

Pb ID: 95GF784-LC2 Seq. No.: 00021 A/S Pos.: 3 Date: 04/18/95

Replicate 1 Time: 11:35
Peak Area (A-s): 0.095 Peak Height (A): 0.157
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.095
Concentration (ug/L): 24.35

Replicate 2 Time: 11:38
Peak Area (A-s): 0.096 Peak Height (A): 0.159
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.096
Concentration (ug/L): 24.62

Mean Conc (ug/L): 24.49 SD: 0.189 RSD(%): 0.77

Rerun DAK 4/18/95

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Pb ID: 95GF784-LC2 Seq. No.: 00022 A/S Pos.: 3 Date: 04/18/95

Replicate 1 Time: 11:41
Peak Area (A-s): 0.174 Peak Height (A): 0.307
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): 0.175
Concentration (ug/L): 45.05

Replicate 2 Time: 11:45
Peak Area (A-s): 0.177 Peak Height (A): 0.320
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.177
Concentration (ug/L): 45.79

Mean Conc (ug/L): 45.42 SD: 0.522 RSD(%): 1.15

Recovery is 104.6%

~~~~~~

Pb ID: ACCV 3 Seq. No.: 00023 A/S Pos.: 76 Date: 04/18/95

Replicate 1 Time: 11:48
Peak Area (A-s): 0.148 Peak Height (A): 0.202
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.149
Concentration (ug/L): 38.28

Replicate 2 Time: 11:51
Peak Arer 'A-s): 0.146 Peak Height (A): 0.202
Backgrou ?k Area (A-s): 0.023 Background Pk Height (A): [illegible] 3
Blank C[illegible] ected Pk Area (A-s): 0.147
Concentracion (ug/L): 37.80
~~~~~~

Concentration (ug/L): 37.80

393

Mean Conc (ug/L): 38.04 SD: 0.341 RSD(%): 0.90 ✓

QC sample is within range 31.50 - 38.50

~~~~~~

Pb ID: CCB 5 Seq. No.: 00024 A/S Pos.: 77 Date: 04/18/95

Replicate 1 Time: 11:54
Peak Area (A-s): 0.001 Peak Height (A): 0.004
Background Pk Area (A-s): -0.000 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.05

Replicate 2 Time: 11:58
Peak Area (A-s): 0.001 Peak Height (A): 0.004
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.24

Mean Conc (ug/L): -0.15 SD: 0.137 RSD(%): 94.25

QC sample is within range -3.00 - 3.00

~~~~~~

Pb ID: 9504G305-001 Seq. No.: 00025 A/S Pos.: 4 Date: 04/18/95

Replicate 1 Time: 12:01
Peak Area (A-s): 0.024 Peak Height (A): 0.052
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.024
Concentration (ug/L): 5.83

Replicate 2 Time: 12:04
Peak Area (A-s): 0.021 Peak Height (A): 0.052
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.022
Concentration (ug/L): 5.16

Mean Conc (ug/L): 5.50 SD: 0.470 RSD(%): 8.55

~~~~~~

Pb ID: 9504G305-001 Seq. No.: 00026 A/S Pos.: 4 Date: 04/18/95

Replicate 1 Time: 12:08
Peak Area (A-s): 0.108 Peak Height (A): 0.243
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.109
Concentration (ug/L): 27.81

Replicate 2 Time: 12:11
Peak Area (A-s): 0.108 Peak Height (A): 0.252
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.040
Blank Corrected Pk Area (A-s): 0.109
Concentration (ug/L): 27.80

Mean Conc (ug/L): 27.81 SD: 0.007 RSD(%): 0.02

Recovery 111.5% ✓
~~~~~~

Background Pk Area (A-s): 0.049 Background Pk Height ...

Blank Corrected Pk Area (A-s): 0.188
Concentration (ug/L): 48.55

Replicate 2 Time: 12:38
Peak Area (A-s): 0.188 Peak Height (A): 0.415
Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.189
Concentration (ug/L): 48.70

Mean Conc (ug/L): 48.63 SD: 0.111 RSD(%): 0.23

Recovery is 108.1% ✓

~~~~~~

Pb ID: 95048305-002 Seq. No.: 00031 A/S Pos.: 7 Date: 04/18/95

Replicate 1 Time: 12:41
Peak Area (A-s): 0.011 Peak Height (A): 0.031
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): 0.012
Concentration (ug/L): 2.61

Replicate 2 Time: 12:44
Peak Area (A-s): 0.013 Peak Height (A): 0.031
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.013
Concentration (ug/L): 2.93

Mean Conc (ug/L): 2.77 SD: 0.229 RSD(%): 8.25

~~~~~~

Pb ID: 95048305-002 Seq. No.: 00032 A/S Pos.: 7 Date: 04/18/95

Replicate 1 Time: 12:48
Peak Area (A-s): 0.099 Peak Height (A): 0.241
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.100
Concentration (ug/L): 25.47

Replicate 2 Time: 12:51
Peak Area (A-s): 0.100 Peak Height (A): 0.245
Background Pk Area (A-s): 0.033 Background Pk Height (A): 0.039
Blank Corrected Pk Area (A-s): 0.101
Concentration (ug/L): 25.68

Mean Conc (ug/L): 25.58 SD: 0.152 RSD(%): 0.60

Recovery is 114.0% ✓

~~~~~~

Pb ID: ACCV Seq. No.: 00033 A/S Pos.: 76 Date: 04/18/95

Replicate 1 Time: 12:54
Peak Area (A-s): 0.146 Peak Height (A): 0.246
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.147
Concentr n (ug/L): 37.77

Replicate 2 Time: 12:58
~~~~~~

Replic 2 Time: 12:58

395

Peak Area (A-s): 0.145 Peak Height (A): 0.204
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.146
Concentration (ug/L): 37.52

Mean Conc (ug/L): 37.65 SD: 0.178 RSD(%): 0.47 ✓

QC sample is within range 31.50 - 38.50

~~~~~~

Pb ID: CCB Seq. No.: 00034 A/S Pos.: 77 Date: 04/18/95

Replicate 1 Time: 13:01
Peak Area (A-s): -0.000 Peak Height (A): 0.004
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.39

Replicate 2 Time: 13:04
Peak Area (A-s): 0.001 Peak Height (A): 0.003
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.18

Mean Conc (ug/L): -0.28 SD: 0.150 RSD(%): 53.06

QC sample is within range -3.00 - 3.00

~~~~~~

Pb ID: 9504G305-003 Seq. No.: 00035 A/S Pos.: 8 Date: 04/18/95

Replicate 1 Time: 13:07
Peak Area (A-s): 0.002 Peak Height (A): 0.009
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.16

Replicate 2 Time: 13:11
Peak Area (A-s): 0.002 Peak Height (A): 0.009
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.12

Mean Conc (ug/L): 0.14 "W" SD: 0.032 RSD(%): 22.28

~~~~~~

Pb ID: 9504G305-003 Seq. No.: 00036 A/S Pos.: 8 Date: 04/18/95

Replicate 1 Time: 13:14
Peak Area (A-s): 0.089 Peak Height (A): 0.220
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.090
Concentration (ug/L): 22.94

Replicate 2 Time: 13:17
Peak Area (A-s): 0.090 Peak Height (A): 0.221
Backgrou [illegible]k Area (A-s): 0.036 Background Pk Height (A): [illegible] 5
Blank Cor[illegible]cted Pk Area (A-s): 0.091
Concentration (ug/L): 23.18
~~~~~~

Pb ID: 9504G305-005 Seq. No.: 00040 A/S Pos.: 10 Date: 04/18/95

Replicate 1 Time: 13:41
Peak Area (A-s): 0.079 Peak Height (A): 0.187
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.080
Concentration (ug/L): 20.26

Replicate 2 Time: 13:44
Peak Area (A-s): 0.080 Peak Height (A): 0.184
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): 0.080
Concentration (ug/L): 20.39

101.6%

Mean Conc (ug/L): 20.32 SD: 0.086 RSD(%): 0.42

Recovery is 92.6% ✓

Pb ID: 9504G305-006 Seq. No.: 00041 A/S Pos.: 11 Date: 04/18/95

Replicate 1 Time: 13:47
Peak Area (A-s): 0.004 Peak Height (A): 0.009
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 0.54

Replicate 2 Time: 13:51
Peak Area (A-s): 0.004 Peak Height (A): 0.010
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 0.66

Mean Conc (ug/L): 0.60 SD: 0.083 RSD(%): 13.83

Pb ID: 9504G305-006 Seq. No.: 00042 A/S Pos.: 11 Date: 04/18/95

Replicate 1 Time: 13:54
Peak Area (A-s): 0.088 Peak Height (A): 0.219
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.089
Concentration (ug/L): 22.61

Replicate 2 Time: 13:57
Peak Area (A-s): 0.088 Peak Height (A): 0.222
Background Pk Area (A-s): 0.038 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.089
Concentration (ug/L): 22.69

113.2%

Mean Conc (ug/L): 22.65 SD: 0.059 RSD(%): 0.26

Recovery is 110.2%

Pb ID :CV 5 Seq. No.: 00043 A/S Pos.: 76 D. 04/18/95

Replicate 1 Time: 14:01

Replica~ 1 Time: 14:01

397

Peak Area (A-s): 0.147 Peak Height (A): 0.217
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.147
Concentration (ug/L): 37.92

Replicate 2 Time: 14:04
Peak Area (A-s): 0.145 Peak Height (A): 0.229
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.146
Concentration (ug/L): 37.54

Mean Conc (ug/L): 37.73 SD: 0.264 RSD(%): 0.70 ✓

QC sample is within range 31.50 - 38.50

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Pb ID: CCB 5 Seq. No.: 00044 A/S Pos.: 77 Date: 04/18/95

Replicate 1 Time: 14:07
Peak Area (A-s): -0.001 Peak Height (A): 0.003
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.75

Replicate 2 Time: 14:10
Peak Area (A-s): -0.002 Peak Height (A): 0.003
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.85

Mean Conc (ug/L): -0.80 SD: 0.070 RSD(%): 8.79

QC sample is within range -3.00 - 3.00

~~~~~~

Pb ID: 9504G305-007 Seq. No.: 00045 A/S Pos.: 12 Date: 04/18/95

Replicate 1 Time: 14:14
Peak Area (A-s): 0.007 Peak Height (A): 0.016
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 1.51

Replicate 2 Time: 14:17
Peak Area (A-s): 0.006 Peak Height (A): 0.015
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.10

Mean Conc (ug/L): 1.31 "W" SD: 0.285 RSD(%): 21.79

~~~~~~

Pb ID: 9504G305-007 Seq. No.: 00046 A/S Pos.: 12 Date: 04/18/95

Replicate 1 Time: 14:20
Peak Area (A-s): 0.091 Peak Height (A): 0.221
Backgrour Pk Area (A-s): 0.040 Background Pk Height (A): 0 37
Blank Co ted Pk Area (A-s): 0.091
Concentration (ug/L): 23.27
~~~~~~

Pb ID: ACCV Seq. No.: 00053 A/S Pos.: 76 Date: 04/18/95

Replicate 1 Time: 15:07
Peak Area (A-s): 0.146 Peak Height (A): 0.216
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.146
Concentration (ug/L): 37.64

Replicate 2 Time: 15:10
Peak Area (A-s): 0.144 Peak Height (A): 0.217
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.145
Concentration (ug/L): 37.24

Mean Conc (ug/L): 37.44 SD: 0.280 RSD(%): 0.75 ✓

QC sample is within range 31.50 - 38.50

Pb ID: CCB Seq. No.: 00054 A/S Pos.: 77 Date: 04/18/95

Replicate 1 Time: 15:13
Peak Area (A-s): -0.001 Peak Height (A): 0.004
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.73

Replicate 2 Time: 15:17
Peak Area (A-s): -0.000 Peak Height (A): 0.004
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.45

Mean Conc (ug/L): -0.59 SD: 0.196 RSD(%): 33.33

QC sample is within range -3.00 - 3.00

Pb ID: 9504G305-011 Seq. No.: 00055 A/S Pos.: 16 Date: 04/18/95

Replicate 1 Time: 15:20
Peak Area (A-s): 0.072 Peak Height (A): 0.165
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.072
Concentration (ug/L): 18.36

Replicate 2 Time: 15:23
Peak Area (A-s): 0.072 Peak Height (A): 0.166
Background Pk Area (A-s): 0.031 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.073
Concentration (ug/L): 18.54

Mean Conc (ug/L): 18.45 SD: 0.125 RSD(%): 0.67

Pb ID: 9504G305-011 Seq. No.: 00056 A/S Pos.: 16 Date: 04/18/95

Replicate 1 Time: 15:27

Mean Conc (ug/L): 25.30 SD: 0.376 RSD(%): 1.49

Recovery is 115.3% (outside of specified limits)

~~~~~~

Pb ID: ACCV Seq. No.: 00063 A/S Pos.: 76 Date: 04/18/95

Replicate 1 Time: 16:13
Peak Area (A-s): 0.140 Peak Height (A): 0.215
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.141
Concentration (ug/L): 36.24

Replicate 2 Time: 16:16
Peak Area (A-s): 0.142 Peak Height (A): 0.213
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.143
Concentration (ug/L): 36.65

Mean Conc (ug/L): 36.45 SD: 0.295 RSD(%): 0.81

QC sample is within range 31.50 - 38.50

~~~~~~

Pb ID: CCB Seq. No.: 00064 A/S Pos.: 77 Date: 04/18/95

Replicate 1 Time: 16:19
Peak Area (A-s): -0.002 Peak Height (A): 0.003
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.79

Replicate 2 Time: 16:22
Peak Area (A-s): -0.002 Peak Height (A): 0.003
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -1.00

Mean Conc (ug/L): -0.90 SD: 0.151 RSD(%): 16.89

QC sample is within range -3.00 - 3.00

~~~~~~

Pb ID: 9504G282-001 Seq. No.: 00065 A/S Pos.: 20 Date: 04/18/95

Replicate 1 Time: 16:26
Peak Area (A-s): 0.035 Peak Height (A): 0.089
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.036
Concentration (ug/L): 8.76

Replicate 2 Time: 16:29
Peak Area (A-s): 0.035 Peak Height (A): 0.088
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.035
Concentration (ug/L): 8.64

Mean Conc (ug/L): 8.70 SD: 0.083 RSD(%): 0.95
~~~~~~

Peak Area (A-s): 0.093 Peak Height (A): 0.232
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.094
Concentration (ug/L): 23.96

Mean Conc (ug/L): 24.01 SD: 0.072 RSD(%): 0.30

Recovery is 114.2% 120.0%

Pb ID: ACCV4 Seq. No.: 00074 A/S Pos.: 76 Date: 04/18/95

Replicate 1 Time: 17:19
Peak Area (A-s): 0.146 Peak Height (A): 0.231
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.147
Concentration (ug/L): 37.76

Replicate 2 Time: 17:22
Peak Area (A-s): 0.144 Peak Height (A): 0.232
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.145
Concentration (ug/L): 37.34

Mean Conc (ug/L): 37.55 SD: 0.297 RSD(%): 0.79

QC sample is within range 31.50 - 38.50 ✓

Pb ID: CCB4 Seq. No.: 00075 A/S Pos.: 77 Date: 04/18/95

Replicate 1 Time: 17:25
Peak Area (A-s): 0.001 Peak Height (A): 0.004
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.18

Replicate 2 Time: 17:28
Peak Area (A-s): -0.001 Peak Height (A): 0.004
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.58

Mean Conc (ug/L): -0.38 SD: 0.288 RSD(%): 75.70

QC sample is within range -3.00 - 3.00

Pb ID: 9504G282-005 Seq. No.: 00076 A/S Pos.: 24 Date: 04/18/95

Replicate 1 Time: 17:32
Peak Area (A-s): -0.000 Peak Height (A): 0.006
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.40

Replicate 2 Time: 17:35
Peak Area (A-s): 0.001 Peak Height (A): 0.006
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.036

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Pb ID: 95GF768-MB1 Seq. No.: 00080 A/S Pos.: 26 Date: 04/18/95

Replicate 1 Time: 17:58
Peak Area (A-s): 0.000 Peak Height (A): 0.003
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.27

Rerun unattended PFK 4/18/95

Replicate 2 Time: 18:01
Peak Area (A-s): 0.001 Peak Height (A): 0.003
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): -0.02

Mean Conc (ug/L): -0.14 SD: 0.177 RSD(%): 124.90

~~~~~~

Pb ID: 95GF768-MB1 Seq. No.: 00081 A/S Pos.: 26 Date: 04/18/95

Replicate 1 Time: 18:05
Peak Area (A-s): 0.088 Peak Height (A): 0.146
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.089
Concentration (ug/L): 22.70

Replicate 2 Time: 18:08
Peak Area (A-s): 0.091 Peak Height (A): 0.145
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.092
Concentration (ug/L): 23.46

Mean Conc (ug/L): 23.08 115.4% SD: 0.536 RSD(%): 2.32

Recovery is 116.1% (outside of specified limits)

~~~~~~

Pb ID: 95GF768-LC1 Seq. No.: 00082 A/S Pos.: 27 Date: 04/18/95

Replicate 1 Time: 18:11
Peak Area (A-s): 0.086 Peak Height (A): 0.129
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.087
Concentration (ug/L): 22.04

Replicate 2 Time: 18:14
Peak Area (A-s): 0.089 Peak Height (A): 0.148
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.089
Concentration (ug/L): 22.74

Mean Conc (ug/L): 22.39 112.0% SD: 0.493 RSD(%): 2.20

~~~~~~

Pb ID: 95GF768-LC1 Seq. No.: 00083 A/S Pos.: 27 Date: 04/18/95

Replicate 1 Time: 18:18
Peak Area (A-s): 0.172 Peak Height (A): 0.290
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.046

Blank Corrected Pk Area (A-s): 0.172
Concentration (ug/L): 44.46

Replicate 2	Time: 18:21
Peak Area (A-s): 0.169	Peak Height (A): 0.275
Background Pk Area (A-s): 0.028	Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.170	
Concentration (ug/L): 43.75	

Mean Conc (ug/L): 44.10 SD: 0.500 RSD(%): 1.13

Recovery is 108.6%

~~~~~~

Pb ID: ACCV Seq. No.: 00084 A/S Pos.: 76 Date: 04/18/95

Replicate 1	Time: 18:24
Peak Area (A-s): 0.145	Peak Height (A): 0.231
Background Pk Area (A-s): 0.024	Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.145	
Concentration (ug/L): 37.36	
Replicate 2	Time: 18:28
Peak Area (A-s): 0.144	Peak Height (A): 0.231
Background Pk Area (A-s): 0.022	Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.144	
Concentration (ug/L): 37.12	

Mean Conc (ug/L): 37.24 SD: 0.169 RSD(%): 0.45

QC sample is within range 31.50 - 38.50

~~~~~~

Pb ID: CCB Seq. No.: 00085 A/S Pos.: 77 Date: 04/18/95

Replicate 1	Time: 18:31
Peak Area (A-s): -0.001	Peak Height (A): 0.003
Background Pk Area (A-s): 0.002	Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): -0.001	
Concentration (ug/L): -0.75	
Replicate 2	Time: 18:34
Peak Area (A-s): -0.002	Peak Height (A): 0.003
Background Pk Area (A-s): 0.003	Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): -0.002	
Concentration (ug/L): -0.98	

Mean Conc (ug/L): -0.86 SD: 0.159 RSD(%): 18.34

QC sample is within range -3.00 - 3.00

~~~~~~

Pb ID: 9504G211-011 Seq. No.: 00086 A/S Pos.: 28 Date: 04/18/95

Replicate 1	Time: 18:38
Peak Area (A-s): 0.118	Peak Height (A): 0.322
Background Pk Area (A-s): 0.046	Background Pk Height (A): 0.056
Blank Corrected Pk Area (A-s): 0.119	
Concentration (ug/L): 30.46	
~~~~~~

Replicate 2 Time: 18:41
Peak Area (A-s): 0.117 Peak Height (A): 0.328
Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.118
Concentration (ug/L): 30.14

Mean Conc (ug/L): 30.30 SD: 0.227 RSD(%): 0.75

~~~~~~

Pb ID: 9504G211-011 Seq. No.: 00087 A/S Pos.: 28 Date: 04/18/95

Replicate 1 Time: 18:44
Peak Area (A-s): 0.202 Peak Height (A): 0.540
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.095
Blank Corrected Pk Area (A-s): 0.203
Concentration (ug/L): 52.42

Replicate 2 Time: 18:47
Peak Area (A-s): 0.201 Peak Height (A): 0.538
Background Pk Area (A-s): 0.062 Background Pk Height (A): 0.095
Blank Corrected Pk Area (A-s): 0.202
Concentration (ug/L): 52.10

Mean Conc (ug/L): 52.26 SD: 0.226 RSD(%): 0.43

Recovery is 109.8%

~~~~~~

Pb ID: 9504G211-012 Seq. No.: 00088 A/S Pos.: 29 Date: 04/18/95

Replicate 1 Time: 18:51
Peak Area (A-s): 0.181 Peak Height (A): 0.408
Background Pk Area (A-s): 0.122 Background Pk Height (A): 0.119
Blank Corrected Pk Area (A-s): 0.181
Concentration (ug/L): 46.79

Replicate 2 Time: 18:54
Peak Area (A-s): 0.181 Peak Height (A): 0.422
Background Pk Area (A-s): 0.119 Background Pk Height (A): 0.120
Blank Corrected Pk Area (A-s): 0.181
Concentration (ug/L): 46.76

Mean Conc (ug/L): 46.78 SD: 0.022 RSD(%): 0.05

~~~~~~

Pb ID: 9504G211-012 Seq. No.: 00089 A/S Pos.: 29 Date: 04/18/95

Replicate 1 Time: 18:57
Peak Area (A-s): 0.259 Peak Height (A): 0.573
Background Pk Area (A-s): 0.132 Background Pk Height (A): 0.122
Blank Corrected Pk Area (A-s): 0.259
Concentration (ug/L): 67.15

Replicate 2 Time: 19:01
Peak Area (A-s): 0.258 Peak Height (A): 0.568
Background Pk Area (A-s): 0.131 Background Pk Height (A): 0.124
Blank Corrected Pk Area (A-s): 0.259
Concentration (ug/L): 66.94
~~~~~~

Mean Conc (ug/L): 67.05 SD: 0.150 RSD(%): 0.22

Recovery is 101.4%

~~~~~~

Pb ID: 9504G211-013 Seq. No.: 00090 A/S Pos.: 30 Date: 04/18/95

Replicate 1 Time: 19:04
Peak Area (A-s): 0.191 Peak Height (A): 0.471
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.079
Blank Corrected Pk Area (A-s): 0.191
Concentration (ug/L): 49.39

Replicate 2 Time: 19:07
Peak Area (A-s): 0.190 Peak Height (A): 0.455
Background Pk Area (A-s): 0.055 Background Pk Height (A): 0.083
Blank Corrected Pk Area (A-s): 0.191
Concentration (ug/L): 49.34

Mean Conc (ug/L): 49.37 SD: 0.033 RSD(%): 0.07

~~~~~~

Pb ID: 9504G211-013 Seq. No.: 00091 A/S Pos.: 30 Date: 04/18/95

Replicate 1 Time: 19:10
Peak Area (A-s): 0.268 Peak Height (A): 0.631
Background Pk Area (A-s): 0.069 Background Pk Height (A): 0.111
Blank Corrected Pk Area (A-s): 0.269
Concentration (ug/L): 69.62

Replicate 2 Time: 19:14
Peak Area (A-s): 0.268 Peak Height (A): 0.626
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.115
Blank Corrected Pk Area (A-s): 0.268
Concentration (ug/L): 69.49

Mean Conc (ug/L): 69.56 SD: 0.090 RSD(%): 0.13

Recovery is 100.9%

~~~~~~

Pb ID: 9504G211-014 Seq. No.: 00092 A/S Pos.: 31 Date: 04/18/95

Replicate 1 Time: 19:17
Peak Area (A-s): 0.145 Peak Height (A): 0.349
Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.061
Blank Corrected Pk Area (A-s): 0.146
Concentration (ug/L): 37.48

Replicate 2 Time: 19:20
Peak Area (A-s): 0.144 Peak Height (A): 0.347
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.144
Concentration (ug/L): 37.15

Mean Conc (ug/L): 37.32 SD: 0.230 RSD(%): 0.62
~~~~~~

Pb ID: 95046211-014 Seq. No.: 00093 A/S Pos.: 31 Date: 04/18/95

Replicate 1 Time: 19:24
Peak Area (A-s): 0.226 Peak Height (A): 0.528
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.095
Blank Corrected Pk Area (A-s): 0.227
Concentration (ug/L): 58.59

Replicate 2 Time: 19:27
Peak Area (A-s): 0.227 Peak Height (A): 0.536
Background Pk Area (A-s): 0.062 Background Pk Height (A): 0.100
Blank Corrected Pk Area (A-s): 0.228
Concentration (ug/L): 58.94

Mean Conc (ug/L): 58.76 SD: 0.245 RSD(%): 0.42

Recovery is 107.2%

Pb ID: ACCV Seq. No.: 00094 A/S Pos.: 76 Date: 04/18/95

Replicate 1 Time: 19:30
Peak Area (A-s): 0.125 Peak Height (A): 0.202
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.126
Concentration (ug/L): 32.32

Replicate 2 Time: 19:33
Peak Area (A-s): 0.145 Peak Height (A): 0.234
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.146
Concentration (ug/L): 37.45

Mean Conc (ug/L): 34.89 SD: 3.622 RSD(%): 10.38

QC sample is within range 31.50 - 38.50

Pb ID: CCB Seq. No.: 00095 A/S Pos.: 77 Date: 04/18/95

Replicate 1 Time: 19:37
Peak Area (A-s): -0.001 Peak Height (A): 0.003
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.59

Replicate 2 Time: 19:40
Peak Area (A-s): -0.000 Peak Height (A): 0.004
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.49

Mean Conc (ug/L): -0.54 SD: 0.071 RSD(%): 13.21

QC sample is within range -3.00 - 3.00

Pb ID: 9504G211-015 Seq. No.: 00096 A/S Pos.: 32 Date: 04/18/95

Replicate 1 Time: 19:43
Peak Area (A-s): 0.073 Peak Height (A): 0.160
Background Pk Area (A-s): 0.080 Background Pk Height (A): 0.096
Blank Corrected Pk Area (A-s): 0.074
Concentration (ug/L): 18.79

Replicate 2 Time: 19:47
Peak Area (A-s): 0.071 Peak Height (A): 0.157
Background Pk Area (A-s): 0.082 Background Pk Height (A): 0.095
Blank Corrected Pk Area (A-s): 0.071
Concentration (ug/L): 18.04

Mean Conc (ug/L): 18.42 SD: 0.527 RSD(%): 2.86

Pb ID: 9504G211-015 Seq. No.: 00097 A/S Pos.: 32 Date: 04/18/95

Replicate 1 Time: 19:50
Peak Area (A-s): 0.159 Peak Height (A): 0.342
Background Pk Area (A-s): 0.093 Background Pk Height (A): 0.093
Blank Corrected Pk Area (A-s): 0.160
Concentration (ug/L): 41.11

Replicate 2 Time: 19:53
Peak Area (A-s): 0.161 Peak Height (A): 0.345
Background Pk Area (A-s): 0.096 Background Pk Height (A): 0.095
Blank Corrected Pk Area (A-s): 0.162
Concentration (ug/L): 41.68

Mean Conc (ug/L): 41.40 SD: 0.405 RSD(%): 0.98

Recovery is 114.9%

Pb ID: 9504G211-015R Seq. No.: 00098 A/S Pos.: 33 Date: 04/18/95

Replicate 1 Time: 19:56
Peak Area (A-s): 0.063 Peak Height (A): 0.134
Background Pk Area (A-s): 0.097 Background Pk Height (A): 0.105
Blank Corrected Pk Area (A-s): 0.064
Concentration (ug/L): 16.17

Rerun MSA PFK 4/19/95

Replicate 2 Time: 20:00
Peak Area (A-s): 0.063 Peak Height (A): 0.132
Background Pk Area (A-s): 0.099 Background Pk Height (A): 0.107
Blank Corrected Pk Area (A-s): 0.063
Concentration (ug/L): 16.00

Mean Conc (ug/L): 16.08 SD: 0.117 RSD(%): 0.73

Pb ID: 9504G211-015R Seq. No.: 00099 A/S Pos.: 33 Date: 04/18/95

Replicate 1 Time: 20:03
Peak Area (A-s): 0.151 Peak Height (A): 0.315
Background Pk Area (A-s): 0.112 Background Pk Height (A): 0.109

Blank Corrected Pk Area (A-s): 0.152
Concentration (ug/L): 39.01

Replicate 2 Time: 20:06
Peak Area (A-s): 0.152 Peak Height (A): 0.309
Background Pk Area (A-s): 0.112 Background Pk Height (A): 0.110
Blank Corrected Pk Area (A-s): 0.153
Concentration (ug/L): 39.39

Mean Conc (ug/L): 39.20 SD: 0.269 RSD(%): 0.69

Recovery is 115.6% (outside of specified limits)

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Pb ID: 9504G211-015S Seq. No.: 00100 A/S Pos.: 34 Date: 04/18/95

Replicate 1 Time: 20:10
Peak Area (A-s): 0.156 Peak Height (A): 0.320
Background Pk Area (A-s): 0.123 Background Pk Height (A): 0.125
Blank Corrected Pk Area (A-s): 0.157
Concentration (ug/L): 40.36

Replicate 2 Time: 20:13
Peak Area (A-s): 0.158 Peak Height (A): 0.319
Background Pk Area (A-s): 0.123 Background Pk Height (A): 0.122
Blank Corrected Pk Area (A-s): 0.159
Concentration (ug/L): 40.83

Mean Conc (ug/L): 40.59 110.8% SD: 0.331 RSD(%): 0.82

~~~~~~

Pb ID: 9504G211-015S Seq. No.: 00101 A/S Pos.: 34 Date: 04/18/95

Replicate 1 Time: 20:16
Peak Area (A-s): 0.233 Peak Height (A): 0.449
Background Pk Area (A-s): 0.154 Background Pk Height (A): 0.145
Blank Corrected Pk Area (A-s): 0.234
Concentration (ug/L): 60.57

Replicate 2 Time: 20:20
Peak Area (A-s): 0.240 Peak Height (A): 0.473
Background Pk Area (A-s): 0.134 Background Pk Height (A): 0.127
Blank Corrected Pk Area (A-s): 0.241
Concentration (ug/L): 62.27

Mean Conc (ug/L): 61.42 SD: 1.207 RSD(%): 1.97

Recovery is 104.1%

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Pb ID: 95GF785-MB1 Seq. No.: 00102 A/S Pos.: 35 Date: 04/18/95

Replicate 1 Time: 20:23
Peak Area (A-s): 0.004 Peak Height (A): 0.011
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 0.65

Replicat 2 Time: 20:26
~~~~~~

Peak Area (A-s): 0.003 Peak Height (A): 0.009
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.32

Mean Conc (ug/L): 0.49 SD: 0.227 RSD(%): 46.78

~~~~~~

Pb ID: 95GF785-MB1 Seq. No.: 00103 A/S Pos.: 35 Date: 04/18/95

Replicate 1 Time: 20:29
Peak Area (A-s): 0.098 Peak Height (A): 0.202
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.099
Concentration (ug/L): 25.16

Rerun DAK 4/19/95

Replicate 2 Time: 20:33
Peak Area (A-s): 0.097 Peak Height (A): 0.183
Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.097
Concentration (ug/L): 24.89

Mean Conc (ug/L): 25.02 SD: 0.188 RSD(%): 0.75

Recovery is 122.7% (outside of specified limits)

~~~~~~

Pb ID: ACCV Seq. No.: 00104 A/S Pos.: 76 Date: 04/18/95

Replicate 1 Time: 20:36
Peak Area (A-s): 0.143 Peak Height (A): 0.225
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.144
Concentration (ug/L): 36.94

Replicate 2 Time: 20:39
Peak Area (A-s): 0.143 Peak Height (A): 0.225
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.036
Blank Corrected Pk Area (A-s): 0.144
Concentration (ug/L): 37.01

Mean Conc (ug/L): 36.97 SD: 0.053 RSD(%): 0.14 ✓

QC sample is within range 31.50 - 38.50

~~~~~~

Pb ID: CCB Seq. No.: 00105 A/S Pos.: 77 Date: 04/18/95

Replicate 1 Time: 20:43
Peak Area (A-s): -0.002 Peak Height (A): 0.003
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.85

Replicate 2 Time: 20:46
Peak Area (A-s): 0.000 Peak Height (A): 0.004
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.28
~~~~~~

Mean Conc (ug/L): -0.57 SD: 0.403 RSD(%): 71.08

QC sample is within range -3.00 - 3.00

~~~~~~

Pb ID: 95GF785-LC1 Seq. No.: 00106 A/S Pos.: 36 Date: 04/18/95

Replicate 1 Time: 20:49
Peak Area (A-s): 0.087 Peak Height (A): 0.158
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.088
Concentration (ug/L): 22.33

Replicate 2 Time: 20:53
Peak Area (A-s): 0.087 Peak Height (A): 0.159
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.088
Concentration (ug/L): 22.36

Mean Conc (ug/L): 22.34 111.7% SD: 0.020 RSD(%): 0.09

~~~~~~

Pb ID: 95GF785-LC1 Seq. No.: 00107 A/S Pos.: 36 Date: 04/18/95

Replicate 1 Time: 20:56
Peak Area (A-s): 0.175 Peak Height (A): 0.326
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.050
Blank Corrected Pk Area (A-s): 0.176
Concentration (ug/L): 45.27

Replicate 2 Time: 20:59
Peak Area (A-s): 0.174 Peak Height (A): 0.333
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.175
Concentration (ug/L): 45.16

Mean Conc (ug/L): 45.21 SD: 0.077 RSD(%): 0.17

Recovery is 114.4% ✓

~~~~~~

Pb ID: 95GF785-LC2 Seq. No.: 00108 A/S Pos.: 37 Date: 04/18/95

Replicate 1 Time: 21:03
Peak Area (A-s): 0.084 Peak Height (A): 0.149
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.085
Concentration (ug/L): 21.51

Replicate 2 Time: 21:06
Peak Area (A-s): 0.083 Peak Height (A): 0.151
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.084
Concentration (ug/L): 21.34

Mean Conc (ug/L): 21.43 SD: 0.121 RSD(%): 0.56

107.2%
~~~~~~

(2)

WESTON Analytics AA7.1 Report

Data File:PB0419D1 Date collected: 95/04/19 Time:
Method File: Date of Report: Time:
Analyst: DAK Remarks:

	PB ppb				
AICV	26.26	MPBTO	1		09:48
ICB	-0.25	MPBTO	1		09:55
CRA	2.85	MPBTO	1		10:01
ACCV 1	36.74	MPBTO	1		10:08
CCB	-0.42	MPBTO	1		10:14
• 95046211-015R	19.00 S	MPBTO	1	956F768	10:21
ACCV	37.02	MPBTO	1		10:40
CCB 2	-0.40	MPBTO	1		10:47
956F785-MB1	-0.37	MPBTO	1	956F785	10:54
956F768-MB1	-0.21	MPBTO	1	956F768	11:07
95046330-003	11.03	MPBTO	10	956F785	11:20
ACCV 3	37.41	MPBTO	1		11:34
CCB	-0.52	MPBTO	1		11:40
956F787-LC1	22.39	MPBTO	1	956F787	12:00
956F787-LC2	22.23	MPBTO	1		12:13
95046331-008	1.70	MPBTO	1		12:27
ACCV	37.23	MPBTO	1		12:40
CCB	-0.23	MPBTO	1		12:47
95046331-008R	0.53	MPBTO	1		12:53
95046331-008S	22.13	MPBTO	1		13:07
ACCV	37.50	MPBTO	1		13:20
CCB	-0.21	MPBTO	1		13:26
ACCV	36.30	MPBTO	1		14:42
CCB	-0.39	MPBTO	1		14:49
956F787-MB1	-0.21	MPBTO	1		14:55
ACCV	37.56	MPBTO	1		15:37
CCB	-0.47	MPBTO	1		15:43
956F788-MB1	-0.30	MPBTO	1	956F788	15:50
956F788-LC1	20.19	MPBTO	1		16:03
• 95046280-001	0.72	MPBTO	1		16:17
ACCV	37.84	MPBTO	1		16:30
CCB	-0.38	MPBTO	1		16:36
95046280-002	0.71	MPBTO	1		16:43
95046280-004	15.37	MPBTO	1		17:09
95046280-005	20.78	MPBTO	5		17:22
ACCV	37.38	MPBTO	1		17:42
CCB	-0.51	MPBTO	1		17:49
95046280-006	0.00	MPBTO	1		17:55
95046280-006R	0.91	MPBTO	1		18:09
95046280-006S	20.66	MPBTO	1		18:22
95046280-007	0.32	MPBTO	1		18:35
ACCV	37.35	MPBTO	1		18:48
CCB	-0.53	MPBTO	1		18:55
95046280-008	0.64	MPBTO	1		19:01
ACCV	37.16	MPBTO	1		20:01
CCB	-0.75	MPBTO	1		20:07

updated 4/20/95

Debbie Kelly 4/20/95

Daniel B. Snyder 4/20/95

IPL 0.8 ug/L *

run 4

* AA7 0.8
AA3 ~~0.2~~ 1.2 gw 4/20/95
AA6 0.5
report highest of the 3

410

OP No. 21-21G-1566

WESTON-Gulf Coast, Inc.
AA7 - PE4100ZL GFAA Sample Analysis Log

Page: 204

Element: Pb
Lamp: HCL Current: 8 Energy: 65

Filename: Pb0419C1
Prep Batch:

QC: (a.) Standard (b.) CLP
c. Other:

LOC		Pb	Se	As	Tl	Ag	Cd
71	STD 1 CRA (ug/L)	3	5	10	10	5	0.5
72	STD 2 "	10	10	20	20	10	1.0
73	STD 3 "	30	20	30	30	20	2.0
74	STD 4 "	50	40	50	50	40	4.0
75	STD 5 "	70	50	70	70	50	5.0
76	ICV/CCV "	35	25	35	35	25	2.5
77	ICB/CCB "	0	0	0	0	0	0
78	Modifier						
79							
80	Diluent						
0	Spike Solution "	40	20	40	40	10	2.0

	QC / Sample ID	Dil.	Rerun	MSA	Prep Batch		QC / Sample ID	Dil.	Rerun	MSA	Prep Batch
1	9504G211-015R	MSA			(F768)	36	9504G281-007				(F789)
2	95GF785-MB1				(F785)	37	-008				
3	95GF768-MB1				(F768)	38	-009				
4	9504G330-003 (10x)				(F785)	39	-010				
5	95GF787-MB1		✓		(Std H_2O's)	40	-011				
6	-LC1					41					
7	-LC2					42					
8	9504G331-008					43					
9	-008R					44					
10	-008S					45					
✓	95GF787-MB1					46					
✓ 12	95GF788-MB1		✓		(CLP H_2O's)	47					
13	-LC1					48					
14	9504G280-001					49					
15	-002					50					
16	-003		✓	✓		51					
17	-004					52					
18	-005					53					
19	-006					54					
20	-006R					55					
21	-006S ~~2x~~ JAK 4/19/95					56					
22	-007					57					
23	-008					58					
24	✓ 95GF789-MB1		✓		(CLP Soils)	59					
25	✓ -LC1		✓			60					
26	9504G281-001					61					
27	-002					62					
28	-003					63					
29	-003R					64					
30	-003S					65					
31	-004					66					
32	-005					67					
33	-005R					68					
34	-005S					69					
35	-006					70					

AK 4/20/95

Analyst: Debbie Kelly / Paul T. Starzyk Date: 4/19/95

Reviewer: Dan [signature] Date: 4/21/95

Element File: PBCLP080.GEL
Element: Pb Analyst: DAK
Print Data: Main+Suppl. Peak Storage: None
Remarks:
STANDARDS 1276-74-2
ICV,CCV'S 1276-74-3
MODIFIER--PD(NO3)2E + MAGNESIUM NITRATE
EDL#759 , HOLLOW CATHODE# 0560969T
ANALYST DEBBIE KELLY

INSTRUMENT: 4100 ZL Technique: HGA Version: 7.30
Wavelength: 283.3 Peak Slit: 0.70 Low
Signal Type: Zeeman AA Signal Measurement: Peak Area
Read Time: 5.0 Read Delay: 0.0 BOC Time: 2
Sample Replicates: 2 if (= 70.00 ug/L, 2 if) 70.00 ug/L, else 2
Standard Replicates: 2 Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	S0		77	20	15	4	
Standard 1	S3	3.00	71	20	15	4	
Standard 2	S10	10.00	72	20	15	4	
Standard 3	S30	30.00	73	20	15	4	
Standard 4	S50	50.00	74	20	15	4	
Standard 5	S70	70.00	75	20	15	4	
Samples				20	15	4	

Diluent Location: 80
Modifier #1 Location: 78 Modifier #2 Location:
Calibration Units: ug/L Sample Units: ug/L
Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	120	7	30	250		Norm
2	230	20	20	250		Norm
3	300	5	15	250		Norm
4	500	4	10	250		Norm
5	1900	0	5	0	*	Norm
6	2400	1	10	250		Norm
7	20	1	5	250		Norm

Injection Temp: 120 Pipette Speed: 100% Extraction System: On

---

SEQUENCE:

Step	Action and Parameters
1	Pipet diluent + modifier 1 + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Completely Recalibrate
Locations: None

Conc. Above Calibration Action: Dilute & Reanalyze After All Reps
Alternate Sample Volumes (uL): 4
Run Alternate Volume Blanks: No

If %RSD) 20.0 and Concentration) 3.0 then Retry 1 times
Check %RSD on: Samples + Standards + QC Samples

Recovery Measurements:
10 uL of 40 ug/L Standard at Location 0 Gives 20.00 ug/L
Measure Recovery on Samples: 1-70
Add to QC Samples: No % Recovery Limits: 85.0 to 115.0

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As Sample
1	79	AICV	22.50	27.50	X			
2	77	ICB	-3.00	2.00	X			
3	71	CRA			X			X
4	76	ACCV	31.50	38.50	X	X	X	
5	77	CCB	-3.00	2.00	X	X	X	

Run Periodic QC Samples: Every 8
Out of Limit Action: Recalibrate and Rerun Samples

Matrix Check Calculations:
% Difference for Dupls: No Locations:
% Recovery for Spike: No Locations: Conc:

Element File: PBMSA.GEL
Element: Pb
Print Data: Main+Suppl.
Analyst: DAK/BH
Peak Storage: None
Remarks:
STANDARDS 1276-~~71-8~~ 74-2 IDL = ~~1.0~~ 0.8 LB 4/26/95
ICV,CCV'S 1276-~~72-1~~ 74-3
MODIFIER 4 UL PD + MG(NO3)2
EDL SERIAL NO. = 932, HOLLOW CATHODE = 11547
ANALYSTS--DEBBIE KELLY/BRIAN HAMENDE

LB 4/26/95

INSTRUMENT: 4100 ZL
Wavelength: 283.3 Peak
Signal Type: Zeeman AA
Read Time: 5.0
Sample Replicates: 1
Standard Replicates: 1

Technique: HGA
Slit: 0.7 Low
Signal Measurement: Peak Area
Read Delay: 0.0
Spike Replicates: Same as Sample

Version: 7.30
BOC Time: 2

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank			77	20	15	5	
Standard 1	S10	10.00	79	4	11	5	
Standard 2	S20	20.00	79	8	7	5	
Standard 3	S30	30.00	79	12	3	5	
Samples				20	15	5	

Diluent Location: 80
Modifier #1 Location: 78
Calibration Units: ug/L
Calibration Type: Method of Add.

Modifier #2 Location:
Sample Units: ug/L

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	120	7	30	250		Norm
2	230	20	20	250		Norm
3	300	5	15	250		Norm
4	500	4	10	250		Norm
5	1900	0	5	0	*	Norm
6	2400	1	10	250		Norm
7	20	1	5	250		Norm

Injection Temp: 120 Pipette Speed: 100% Extraction System: On

---

SEQUENCE:

Step	Action and Parameters
1	Pipet diluent + modifier 1 + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Additions Preparation: Automatic
Periodic Autozero Locations: None

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Upper	After Calib	Periodic Check	At End	Count As Sample
1	76	AICV	31.50	38.50				
2	77	ICB	-3.00	2.00				

Run Periodic QC Samples: Every 5
Out of Limit Action: Print Message Only

Matrix Check Calculations:
% Difference for Dupls: No Locations:
% Recovery for Spike: No Locations: Conc:

```
Element File: PBCLP080.GEL    Element: Pb                    Wavelength: 283.3
Date: 04/19/95                Time: 09:03                    Slit: 0.70 L
Data File: PB0419C1.DAT       ID/Wt File: PB041901.IDW       Lamp Current: 8
Technique: HGA                Calib. Type: Linear            Energy: 65
Remark 1: STANDARDS 1276-74-2
Remark 2: ICV,CCV'S 1276-74-3
Remark 3: MODIFIER--PD(NO3)2E + MAGNESIUM NITRATE
Remark 4: EDL#759    , HOLLOW CATHODE# 0560969T
Remark 5: ANALYST   DEBBIE KELLY
```

Debbie Kelly

```
Pb    ID: S0                  Seq. No.: 00001    A/S Pos.: 77    Date: 04/19/95

Replicate  1                                     Time: 09:06
Peak Area (A-s): -0.000                          Peak Height (A): 0.004
Background Pk Area (A-s): 0.001                  Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): -0.000

Replicate  2                                     Time: 09:09
Peak Area (A-s): -0.000                          Peak Height (A): 0.005
Background Pk Area (A-s): 0.002                  Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): -0.000

Mean Pk Area (A-s):     -0.000          SD: 0.0000              RSD(x): 10.59

Auto-zero performed.

Pb    ID: S3                  Seq. No.: 00002    A/S Pos.: 71    Date: 04/19/95

Replicate  1                                     Time: 09:12
Peak Area (A-s): 0.010                           Peak Height (A): 0.019
Background Pk Area (A-s): 0.002                  Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.010

Replicate  2                                     Time: 09:16
Peak Area (A-s): 0.010                           Peak Height (A): 0.019
Background Pk Area (A-s): 0.002                  Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.010

Mean Pk Area (A-s):      0.010          SD: 0.0003              RSD(x): 2.61

Standard number 1 applied.  [3.00]
Correlation coefficient: 1.00000                 Slope: 0.0034           Int: 0.000

Pb    ID: S10                 Seq. No.: 00003    A/S Pos.: 72    Date: 04/19/95

Replicate  1                                     Time: 09:19
Peak Area (A-s): 0.033                           Peak Height (A): 0.054
Background Pk Area (A-s): 0.007                  Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): 0.033
Concentration (ug/L  ): 9.57

Replicate  2                                     Time: 09:22
Peak Area (A-s): 0.032                           Peak Height (A): 0.058
Background Pk Area (A-s): 0.006                  Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): 0.032
```

Concentration (ug/L): 9.44

Mean Conc (ug/L): 9.51 SD: 0.092 RSD(%): 0.97

Standard number 2 applied. [10.00]
Correlation coefficient: 0.99985 Slope: 0.0032 Int: 0.000

~~~~~~

Pb ID: S30 Seq. No.: 00004 A/S Pos.: 73 Date: 04/19/95

Replicate 1 Time: 09:25
Peak Area (A-s): 0.092 Peak Height (A): 0.158
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.093
Concentration (ug/L): 28.46

Replicate 2 Time: 09:29
Peak Area (A-s): 0.095 Peak Height (A): 0.163
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.095
Concentration (ug/L): 29.33

Mean Conc (ug/L): 28.90 SD: 0.615 RSD(%): 2.13

Standard number 3 applied. [30.00]
Correlation coefficient: 0.99990 Slope: 0.0031 Int: 0.001

~~~~~~

Pb ID: S50 Seq. No.: 00005 A/S Pos.: 74 Date: 04/19/95

Replicate 1 Time: 09:32
Peak Area (A-s): 0.153 Peak Height (A): 0.267
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.153
Concentration (ug/L): 48.93

Replicate 2 Time: 09:35
Peak Area (A-s): 0.153 Peak Height (A): 0.261
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): 0.153
Concentration (ug/L): 48.84

Mean Conc (ug/L): 48.89 SD: 0.063 RSD(%): 0.13

Standard number 4 applied. [50.00]
Correlation coefficient: 0.99988 Slope: 0.0031 Int: 0.001

~~~~~~

Pb ID: S70 Seq. No.: 00006 A/S Pos.: 75 Date: 04/19/95

Replicate 1 Time: 09:38
Peak Area (A-s): 0.214 Peak Height (A): 0.396
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.063
Blank Corrected Pk Area (A-s): 0.214
Concentration (ug/L): 69.75

Replicate 2 Time: 09:42
Peak Area (A-s): 0.213 Peak Height (A): 0.389
Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.063
~~~~~~

Blank Corrected Pk Area (A-s): 0.213
Concentration (ug/L): 69.51

Mean Conc (ug/L): 69.63 SD: 0.172 RSD(%): 0.25

Standard number 5 applied. [70.00]
Correlation coefficient: 0.99994 Slope: 0.0030 Int: 0.001

~~~~~~

Pb ID: AICV Seq. No.: 00007 A/S Pos.: 79 Date: 04/19/95

Replicate 1 Time: 09:45
Peak Area (A-s): 0.081 Peak Height (A): 0.135
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.081
Concentration (ug/L): 26.13

Replicate 2 Time: 09:48
Peak Area (A-s): 0.081 Peak Height (A): 0.142
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.082
Concentration (ug/L): 26.39

Mean Conc (ug/L): 26.26 SD: 0.188 RSD(%): 0.72 ✓

QC sample is within range 22.50 - 27.50

~~~~~~

Pb ID: ICB Seq. No.: 00008 A/S Pos.: 77 Date: 04/19/95

Replicate 1 Time: 09:51
Peak Area (A-s): 0.001 Peak Height (A): 0.005
Background Pk Area (A-s): -0.000 Background Pk Height (A): 0.003
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.11

Replicate 2 Time: 09:55
Peak Area (A-s): -0.001 Peak Height (A): 0.004
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.60

Mean Conc (ug/L): -0.25 SD: 0.501 RSD(%): 202.14

QC sample is within range -3.00 - 2.00

~~~~~~

Pb ID: CRA Seq. No.: 00009 A/S Pos.: 71 Date: 04/19/95

Replicate 1 Time: 09:58
Peak Area (A-s): 0.010 Peak Height (A): 0.019
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.010
Concentration (ug/L): 2.94

Replicate 2 Time: 10:01
Peak Area (A-s): 0.009 Peak Height (A): 0.020
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.006
Blank Corrected Pk Area (A-s): 0.010
~~~~~~

Concentration (ug/L): 2.76

Mean Conc (ug/L): 2.85 SD: 0.127 RSD(%): 4.45

QC sample is within range

Pb ID: ACCV Seq. No.: 00010 A/S Pos.: 76 Date: 04/19/95

Replicate 1 Time: 10:05
Peak Area (A-s): 0.114 Peak Height (A): 0.195
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.114
Concentration (ug/L): 37.01

Replicate 2 Time: 10:08
Peak Area (A-s): 0.112 Peak Height (A): 0.199
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.112
Concentration (ug/L): 36.48

Mean Conc (ug/L): 36.74 SD: 0.376 RSD(%): 1.02

QC sample is within range 31.50 - 38.50

Pb ID: CCB Seq. No.: 00011 A/S Pos.: 77 Date: 04/19/95

Replicate 1 Time: 10:11
Peak Area (A-s): -0.000 Peak Height (A): 0.004
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.42

Replicate 2 Time: 10:14
Peak Area (A-s): -0.000 Peak Height (A): 0.005
Background Pk Area (A-s): 0.000 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.41

Mean Conc (ug/L): -0.42 SD: 0.004 RSD(%): 1.03

QC sample is within range -3.00 - 2.00

Element File: PBMSA.GEL Element: Pb Wavelength: 283.3
Date: 04/19/95 Time: 10:21 Slit: 0.7 L
Data File: PB0419C1.DAT ID/Wt File: PB041901.IDW Lamp Current: 8
Technique: HGA N-2 Calib. Type: Method of Add. Energy: 64
Remark 1: STANDARDS 1276-~~71-8~~ IDL = 1.0
Remark 2: ICV,CCV'S 1276-~~72-1~~ 74-3 JAK 4/19/95
Remark 3: MODIFIER 4 UL PD + MG(NO3)2
Remark 4: EDL SERIAL NO. = 932, HOLLOW CATHODE = 11547
Remark 5: ANALYSTS--DEBBIE KELLY/BRIAN HAMENDE

Pb ID: 9504G211-015R Seq. No.: 00012 A/S Pos.: 1 Date: 04/19/95

Replicate 1 Time: 10:21
Peak Area (A-s): 0.049 Peak Height (A): 0.132
Background Pk Area (A-s): 0.095 Background Pk Height (A): 0.185
Blank Corrected Pk Area (A-s): 0.049

Pb ID: S10 Seq. No.: 00013 A/S Pos.: 1 Date: 04/19/95

Replicate 1 Time: 10:25
Peak Area (A-s): 0.082 Peak Height (A): 0.210
Background Pk Area (A-s): 0.096 Background Pk Height (A): 0.173
Blank Corrected Pk Area (A-s): 0.082

Pb ID: S20 Seq. No.: 00014 A/S Pos.: 1 Date: 04/19/95

Replicate 1 Time: 10:28
Peak Area (A-s): 0.107 Peak Height (A): 0.264
Background Pk Area (A-s): 0.100 Background Pk Height (A): 0.175
Blank Corrected Pk Area (A-s): 0.107

Pb ID: S30 Seq. No.: 00015 A/S Pos.: 1 Date: 04/19/95

Replicate 1 Time: 10:32
Peak Area (A-s): 0.131 Peak Height (A): 0.321
Background Pk Area (A-s): 0.104 Background Pk Height (A): 0.171
Blank Corrected Pk Area (A-s): 0.131

The standard additions calibration curve may not be linear.
Pb ID: 9504G211-015R Seq. No.: 00012 A/S Pos.: 1 Date: 04/19/95

Concentration (ug/L): ~~19.14~~

Correlation coefficient: ~~0.99722~~ Slope: 0.0027 Int: 0.052

CC = 0.9969
m = 0.0027
b = 0.0516
X' = -19.04

JAK 4/20/95

Element File: PBCLP080.GEL Element: Pb Wavelength: 283.3
Date: 04/19/95 Time: 10:37 Slit: 0.70 L
Data File: PB0419C1.DAT ID/Wt File: PB041901.IDW Lamp Current: 8
Technique: HGA Calib. Type: Linear Energy: 65
Remark 1: STANDARDS 1276-74-2
Remark 2: ICV,CCV'S 1276-74-3
Remark 3: MODIFIER--PD(NO3)2E + MAGNESIUM NITRATE
Remark 4: EDL#759 , HOLLOW CATHODE# 0560969T
Remark 5: ANALYST DEBBIE KELLY

Pb ID: ACCV ✓ Seq. No.: 00017 A/S Pos.: 76 Date: 04/19/95

Replicate 1 Time: 10:37
Peak Area (A-s): 0.113 Peak Height (A): 0.224
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.113
Concentration (ug/L): 36.87

Replicate 2 Time: 10:40
Peak Area (A-s): 0.114 Peak Height (A): 0.198
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.114
Concentration (ug/L): 37.17

Mean Conc (ug/L): 37.02 SD: 0.210 RSD(%): 0.57 ✓

Pb ID: CCB ✓ Seq. No.: 00018 A/S Pos.: 77 Date: 04/19/95

Replicate 1 Time: 10:44
Peak Area (A-s): -0.000 Peak Height (A): 0.005
Background Pk Area (A-s): 0.000 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.43

Replicate 2 Time: 10:47
Peak Area (A-s): -0.000 Peak Height (A): 0.005
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.36

Mean Conc (ug/L): -0.40 SD: 0.052 RSD(%): 13.22

Pb ID: 95GF785-MB1 Seq. No.: 00019 A/S Pos.: 2 Date: 04/19/95

Replicate 1 Time: 10:50
Peak Area (A-s): -0.001 Peak Height (A): 0.004
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.52

Replicate 2 Time: 10:54
Peak Area (A-s): 0.000 Peak Height (A): 0.004
Background Pk Area (A-s): 0.000 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.22

Mean Conc (ug/L): -0.37 SD: 0.215 RSD(%): 57.51

~~~~~~

Pb ID: 95GF785-MB1 Seq. No.: 00020 A/S Pos.: 2 Date: 04/19/95

Replicate 1 Time: 10:57
Peak Area (A-s): 0.069 Peak Height (A): 0.119
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): 0.069
Concentration (ug/L): 22.36

Replicate 2 Time: 11:00
Peak Area (A-s): 0.070 Peak Height (A): 0.119
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): 0.070
Concentration (ug/L): 22.53

112.2%

Mean Conc (ug/L): 22.45 SD: 0.118 RSD(%): 0.52

Recovery is 114.1%

~~~~~~

Pb ID: 95GF768-MB1 Seq. No.: 00021 A/S Pos.: 3 Date: 04/19/95

Replicate 1 Time: 11:04
Peak Area (A-s): 0.000 Peak Height (A): 0.005
Background Pk Area (A-s): 0.000 Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.31

Replicate 2 Time: 11:07
Peak Area (A-s): 0.001 Peak Height (A): 0.005
Background Pk Area (A-s): -0.000 Background Pk Height (A): 0.005
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.11

Mean Conc (ug/L): -0.21 SD: 0.141 RSD(%): 67.58

~~~~~~

Pb ID: 95GF768-MB1 Seq. No.: 00022 A/S Pos.: 3 Date: 04/19/95

Replicate 1 Time: 11:10
Peak Area (A-s): 0.068 Peak Height (A): 0.119
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.068
Concentration (ug/L): 21.89

Replicate 2 Time: 11:14
Peak Area (A-s): 0.070 Peak Height (A): 0.123
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.070
Concentration (ug/L): 22.61

Mean Conc (ug/L): 22.25 SD: 0.507 RSD(%): 2.28

111.2%

Recovery is 112.3%
~~~~~~

Pb ID: 9504G330-003 10 Seq. No.: 00023 A/S Pos.: 4 Date: 04/19/95

Replicate 1 Time: 11:17
Peak Area (A-s): 0.034 Peak Height (A): 0.080
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.035
Concentration (ug/L): 10.94

Replicate 2 Time: 11:20
Peak Area (A-s): 0.035 Peak Height (A): 0.080
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.017
Blank Corrected Pk Area (A-s): 0.035
Concentration (ug/L): 11.11

Mean Conc (ug/L): 11.03 SD: 0.126 RSD(%): 1.14

Pb ID: 9504G330-003 10 Seq. No.: 00024 A/S Pos.: 4 Date: 04/19/95

Replicate 1 Time: 11:24
Peak Area (A-s): 0.108 Peak Height (A): 0.223
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.108
Concentration (ug/L): 35.12

Replicate 2 Time: 11:27
Peak Area (A-s): 0.107 Peak Height (A): 0.240
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.107
Concentration (ug/L): 34.66

Mean Conc (ug/L): 34.89 SD: 0.328 RSD(%): 0.94

Recovery is 119.3% (outside of specified limits)

Pb ID: ACCV Seq. No.: 00025 A/S Pos.: 76 Date: 04/19/95

Replicate 1 Time: 11:30
Peak Area (A-s): 0.115 Peak Height (A): 0.201
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.034
Blank Corrected Pk Area (A-s): 0.115
Concentration (ug/L): 37.50

Replicate 2 Time: 11:34
Peak Area (A-s): 0.115 Peak Height (A): 0.199
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.115
Concentration (ug/L): 37.33

Mean Conc (ug/L): 37.41 SD: 0.120 RSD(%): 0.32

QC sample is within range 31.50 - 38.50

Pb ID: CCB Seq. No.: 00026 A/S Pos.: 77 Date: 04/19/95

Replicate 1 Time: 11:37

```
Peak Area (A-s): 0.001                    Peak Height (A): 0.005
Background Pk Area (A-s): 0.000           Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L  ): -0.05

Replicate  2                              Time: 11:40
Peak Area (A-s): -0.002                   Peak Height (A): 0.004
Background Pk Area (A-s): 0.001           Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L  ): -0.99

Mean Conc  (ug/L  ):      -0.52           SD: 0.667              RSD(%): 128.85

QC sample is within range -3.00 - 2.00

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Pb    ID: 95GF787-MB1         Seq. No.: 00027    A/S Pos.: 5     Date: 04/19/95

Replicate  1                              Time: 11:43
Peak Area (A-s): 0.001                    Peak Height (A): 0.006
Background Pk Area (A-s): 0.001           Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L  ): 0.08

Replicate  2                              Time: 11:47
Peak Area (A-s): 0.001                    Peak Height (A): 0.006
Background Pk Area (A-s): 0.000           Background Pk Height (A): 0.004
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L  ): -0.16

Mean Conc  (ug/L  ):      -0.04           SD: 0.167              RSD(%): 397.29

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Pb    ID: 95GF787-MB1         Seq. No.: 00028    A/S Pos.: 5     Date: 04/19/95

Replicate  1                              Time: 11:50
Peak Area (A-s): 0.072                    Peak Height (A): 0.130
Background Pk Area (A-s): 0.013           Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.078
Concentration (ug/L  ): 23.25

Replicate  2                              Time: 11:53
Peak Area (A-s): 0.074                    Peak Height (A): 0.133
Background Pk Area (A-s): 0.012           Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.074
Concentration (ug/L  ): 23.88

Mean Conc  (ug/L  ):      23.57           SD: 0.447              RSD(%): 1.90

Recovery is 118.0%  (outside of specified limits)

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Pb    ID: 95GF787-LC1         Seq. No.: 00029    A/S Pos.: 6     Date: 04/19/95

Replicate  1                              Time: 11:57
Peak Area (A-s): 0.069                    Peak Height (A): 0.137
Background Pk Area (A-s): 0.013           Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.069
Concentrati  (ug/L  ): 22.42
```

Reviewed VAK 4/19/95

(1)

WESTON Analytics AA5.J Report

Data File:SE0411T3 Date Collected: 95/04/11 Time:
Method File: Date of Report: Time:
Analyst: RIF

	SE ppb				
ICVF	34.44	MSETO	1		16:31
ICB	0.07	MSETO	1		16:35
CRA	6.05	MSETO	1		16:39
CCVF1 1	25.14	MSETO	1		16:43
CCB1	0.76	MSETO	1		16:47
95GF767-MB1	0.54	MSETO	1	95GF767	16:51
95GF767-LC1	11.45	MSELCS	1	95GF767	16:59
• 9504G211-001	-0.69	MSETO	1		17:07
9504G211-001R	0.51	MSETOR	1		17:15
9504G211-001S	9.08	MSETOS	1		17:23
CCVF2 2	25.50	MSETO	1		17:27
CCB2	0.17	MSETO	1		17:31
9504G211-002R	-0.42	MSESOR	1		17:43
9504G211-002S	8.80	MSESOS	1		17:51
9504G211-003	-0.62	MSETO	1		17:55
9504G211-004	2.00	MSESO	1		18:03
CCVF3 3	24.87	MSETO	1		18:11
CCB3	1.04	MSETO	1		18:15

updated 4/12/95

4/12/95

4/12/95

IDL = 1.4 ug/L

run 1

425

OP No. 21-21G-1580
Rev. 00; Eff. Date 02/21/95

WESTON Environmental Metrics, Inc.
AA5 - GFAA PE3030 Analysis Run Log

Element: Se Filename: S04111T3

Lamp: EDL Current: 6.0 Energy: 52 QC a. Standard (b.) CLP

Autosampler Tray #1

AS Sn	AS Pos#	QC/RFW #	Dil.	Rerun	MSA	Prep Batch
1	6	AICV				
2	7	ICB				
3	8	CRA				
4	9	ACCV				
5	10	CCB				
6	11	95GF767-MB1	elP		GF767	
7	12	A				
8	13	-LCI				
9	14	A				
10	15	9504G211-001				
11	16	A				
12	17	-001R				
13	18	A				
14	19	-001S				
15	20	ACCV				
16	21	CCB				
17	22	-002				
18	23	A				
19		-002R				
20	25	A				
21	26	-002S				
22	27	-003				
23	28	A				
24	29	-004				
25	30	A				
26	31	ACCV				
27	32	CCB				
28	33	-005				
29	34	A				
30	35	-006				
31	36	A				
32	37	-007				
33	38	A				
34	39	-008				
35	40	A				

Autosampler Tray #2

AS Sn	AS Pos#	QC/RFW #	Dil.	Rerun	MSA	Prep Batch
36	1	-009				
37	2	A				
38	3	ACCV				
39	4	CCB				
40	5	-010				
41	6	A				
42	7	95GF768-MB1			GF768	
43	8	A				
44	9	LCI				
45	10	A				
46	11	9504G211-011				
47	12	A				
48	13	-012				
49	14	A				
50	15	ACCV				
51	16	CCB				
52	17	-013				
53	18	A				
54	19	-014				
55	20	A				
56	21	-015				
57	22	A				
58	23	-015R				
59	24	A				
60	25	-015S				
61	26	ACCV				
62	27	CCB				
63	28	Sol-MB1				
64	29	A				
65	30	Sol-LCI				
66	31	A				
67	32	Sol-LCV				
68	33	A				
69	34	9504G182-004				
70	35	A				
71	36	-004R				
72	37	A				
73	38	ACCV				
74	39	CCB				
75	40	— ALL				

Analyst: Kayla L Tebay Date: 4/11/95

Revi: Dan B Long Date: 4/12/95

Page 48

Se 04 11 T 3 Std 1276-73-2
QC 1276-73-3,4

E SV

PROGRAMMING MODE INSTRUMENT USER METH # 17 - SE DATE: 95/04/11

ELEMENT: SE WAVELENGTH (NM): 196.0 SLIT (NM): 0.7
PYRO COATED TUBE WITH PLATFORM - MAX POWER HEATING - GAS STOP - MATRIX MOD.
PRETREAT TEMP: 900 ATOMIZE TEMP: 2100 CHARACT. MASS (PG) 30.0

1. TECHNIQUE: ZEEMAN
2. LAMP CURRENT (MA): 6
3. SIGNAL PROCESSING: PEAK AREA
4. CALIBRATION: LINEAR
5. TIME (SECONDS): 4.0
6. READ DELAY (SECONDS): 4.0
7. SCREEN FORMAT: 0.4 GRAPHICS
8. PRINTER: MAIN SUPPL
9. RECORDER SIGNAL: 0.2 CONT ABS
10. RECORDER EXP: 1000
11. STATISTICS: 2 AVG. & SD & CV
12. NOMINAL WEIGHT 1.0
13. ROLLOVER(ABS): 1.000
14. BG SCALE: 1.0

15. S1: 5.00
16. S2: 10.00
17. S3: 20.00
18. S4: 40.00
19. S5: 50.00
20. S6:
21. S7:
22. S8:
23. RSLP:

TIME: 15:53

0723080PROGRAMMING MODE HGA 600 USER METH # 17 - SE DATE: 95/04/11

ELEMENT: SE WAVELENGTH (NM): 196.0 SLIT (NM): 0.7
PYRO COATED TUBE WITH PLATFORM - MAX POWER HEATING - GAS STOP - MATRIX MOD.
PRETREAT TEMP: 900 ATOMIZE TEMP: 2100 CHARACT. MASS (PG) 30.0

STEP NUMBER	FURNACE TEMPERATURE	TIME RAMP	TIME HOLD	INTERNAL GASFLOW	READ	RECORDER
1	150	30	5	300	-	-
2	500	10	5	300	-	-
3	20	1	10	300	-	-
4	2200	1	8	0	*	-
5	2700	1	5	300	-	-
6	20	1	1	300	-	-
7	----	1	--	300	-	-
	----	1	--	300	-	-
	----	1	--	300	-	-

8	----	1	--	300	-	-
9	----	1	--	300	-	-

TIME: 15:53

PROGRAMMING MODE AUTOSAMPLER USER METH # 17 - SE DATE: 95/04/11

SOLUTIONS	LOCATION	VOLUME	BLANK VOLUME
BLANK	00		10
STANDARD 1	01	20	15
STANDARD 2	02	20	15
STANDARD 3	03	20	15
STANDARD 4	04	20	15
STANDARD 5	05	20	15
STANDARD 6	--	05	--
STANDARD 7	--	05	--
STANDARD 8	--	05	--
RESLOPE	--	05	--
MATRIX MODIFIER 1	00	05	--
MATRIX MODIFIER 2	--	05	--
SAMPLE 06 TO 40 WITH MODIFIER - + -		20	15
SAMPLE -- TO -- WITH MODIFIER - + -		20	--

RECAL LOCATIONS: -- : -- : -- : -- : -- NUMBER OF INJECTIONS: 01

LOCATION 00 TO 40

TIME: 15:54

SE

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.017	0.014	0.012
PEAK AREA (ABS-SECONDS)	0.019	0.003	0.016

READ: -0.002

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.016	0.011	0.013
PEAK AREA (ABS-SECONDS)	0.022	0.004	0.018

READ: -0.002

MEAN= -0.002 STD.DEV.= 0.000 COEF.VAR.= 4.39 %

0.000 AUTOZERO

SE

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.026	0.020	0.014
PEAK AREA (ABS-SECONDS)	0.043	0.024	0.019

READ: 0.020

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.024	0.021	0.014
PEAK AREA (ABS-SECONDS)	0.039	0.016	0.023

READ: 0.013

MEAN= 0.017 STD.DEV.= 0.005 COEF.VAR.= 32.45 %

5.00 STANDARD 1

SE

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.045	0.035	0.022
PEAK AREA (ABS-SECONDS)	0.069	0.043	0.026

READ: 11.77

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.045	0.036	0.016
PEAK AREA (ABS-SECONDS)	0.070	0.045	0.025

READ: 12.36

MEAN= 12.07 STD.DEV.= 0.42 COEF.VAR.= 3.45 %

12.07

E-50: READING GREATER THAN HIGHEST STANDARD

10.30 STANDARD 2

SE

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.067	0.051	0.024
PEAK AREA (ABS-SECONDS)	0.108	0.071	0.027

16:08

AK

0.0035

S-1

0.0200

S-2

0.0440

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.067	0.051	0.024
PEAK AREA (ABS-SECONDS)	0.108	0.071	0.037

5-3
0.070

READ: 17.26

(CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.069	0.053	0.022
PEAK AREA (ABS-SECONDS)	0.107	0.069	0.038

READ: 16.69

MEAN= 16.97 STD.DEV.= 0.40 COEF.VAR.= 2.38 %

****

16.97

E-50: READING GREATER THAN HIGHEST STANDARD

****

19.09 STANDARD 3

****

SE

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.142	0.108	0.039
PEAK AREA (ABS-SECONDS)	0.200	0.145	0.055

5-4
0.1435

READ: 40.77

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.144	0.108	0.038
PEAK AREA (ABS-SECONDS)	0.198	0.142	0.056

READ: 40.04

MEAN= 40.41 STD.DEV.= 0.52 COEF.VAR.= 1.28 %

****

40.41

E-50: READING GREATER THAN HIGHEST STANDARD

****

40.10 STANDARD 4

****

SE

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.150	0.114	0.042
PEAK AREA (ABS-SECONDS)	0.230	0.163	0.067

5-5
0.1705

READ: 45.57

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.178	0.134	0.047
PEAK AREA (ABS-SECONDS)	0.245	0.178	0.067

READ: 49.99

cc 0.99864

MEAN= 47.78 STD.DEV.= 3.12 COEF.VAR.= 6.54 %

b 3.6057

****

47

E-50: READING GREATER THAN HIGHEST STANDARD

m 0.0034

E-50: READING GREATER THAN HIGHEST STANDARD

48.93 STANDARD 5

SE 0001

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.125	0.093	0.039
PEAK AREA (ABS-SECONDS)	0.180	0.123	0.057

READ: 34.96

0001 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.111	0.086	0.034
PEAK AREA (ABS-SECONDS)	0.176	0.119	0.056

READ: 33.93

MEAN= 34.44 STD.DEV.= 0.73 COEF.VAR.= 2.13 %

SE 0002

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.018	0.012	0.013
PEAK AREA (ABS-SECONDS)	0.027	0.004	0.023

READ: 0.26

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.018	0.014	0.012
PEAK AREA (ABS-SECONDS)	0.026	0.003	0.023

READ: -0.13

MEAN= 0.07 STD.DEV.= 0.28 COEF.VAR.= 99.99 %

SE 0003

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.030	0.023	0.016
PEAK AREA (ABS-SECONDS)	0.051	0.024	0.027

READ: 6.00

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.028	0.022	0.017
PEAK AREA (ABS-SECONDS)	0.051	0.024	0.026

READ: 6.11

MEAN= 6.05 STD.DEV.= 0.07 COEF.VAR.= 1.21 %

SE 0004

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.080	0.060	0.028
PEAK A (ABS-SECONDS)	0.128	0.084	0.044

READ: 23.62

M 0.0034

x = -1.5337

AICV 16:31

ICB 16:35

CRA 16:39

ACCV 16:43

98.4%

121.0%

431

READ: 23.62

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.091	0.069	0.026
PEAK AREA (ABS-SECONDS)	0.138	0.094	0.044

READ: 26.65 100.6 1/2

MEAN= 25.14 STD.DEV.= 2.14 COEF.VAR.= 8.52 %

SE 0005

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.019	0.013	0.016
PEAK AREA (ABS-SECONDS)	0.030	0.006	0.023

READ: 0.87

CCB 16:47

0005 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.018	0.012	0.015
PEAK AREA (ABS-SECONDS)	0.027	0.006	0.022

READ: 0.64

MEAN= 0.76 STD.DEV.= 0.16 COEF.VAR.= 20.99 %

SE 0006

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.017	0.013	0.014
PEAK AREA (ABS-SECONDS)	0.028	0.005	0.023

READ: 0.46 95GF767-MW1

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.017	0.010	0.012
PEAK AREA (ABS-SECONDS)	0.023	0.006	0.018

READ: 0.63

MEAN= 0.54 STD.DEV.= 0.12 COEF.VAR.= 22.60 %

SE 0007

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.050	0.036	0.022
PEAK AREA (ABS-SECONDS)	0.071	0.039	0.032

READ: 10.40 A

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.051	0.039	0.018
PEAK AREA (ABS-SECONDS)	0.074	0.045	0.029

READ: 12.24 13.22

MEAN= 11.32 STD.DEV.= 1.30 COEF.VAR.= 11.48 %

MEAN= 11.32 STD.DEV.= 1.30 COEF.VAR.= 11.48 %

SE 0008

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.050	0.034	0.020
PEAK AREA (ABS-SECONDS)	0.072	0.044	0.029

READ: 11.78 956F767-2C1

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.050	0.034	0.021
PEAK AREA (ABS-SECONDS)	0.069	0.041	0.027

READ: 11.11 11.45

MEAN= 11.45 STD.DEV.= 0.48 COEF.VAR.= 4.16 %

SE 0009

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.084	0.064	0.026
PEAK AREA (ABS-SECONDS)	0.115	0.076	0.040

READ: 21.12 A

0009 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.083	0.059	0.024
PEAK AREA (ABS-SECONDS)	0.112	0.071	0.040

READ: 19.92

MEAN= 20.52 STD.DEV.= 0.85 COEF.VAR.= 4.15 %

SE 0010

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.584	0.015	0.586
PEAK AREA (ABS-SECONDS)	0.663	-0.002	0.665

READ: -1.57 9504G211-001

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.578	0.019	0.582
PEAK AREA (ABS-SECONDS)	0.667	0.004	0.663

READ: 0.19

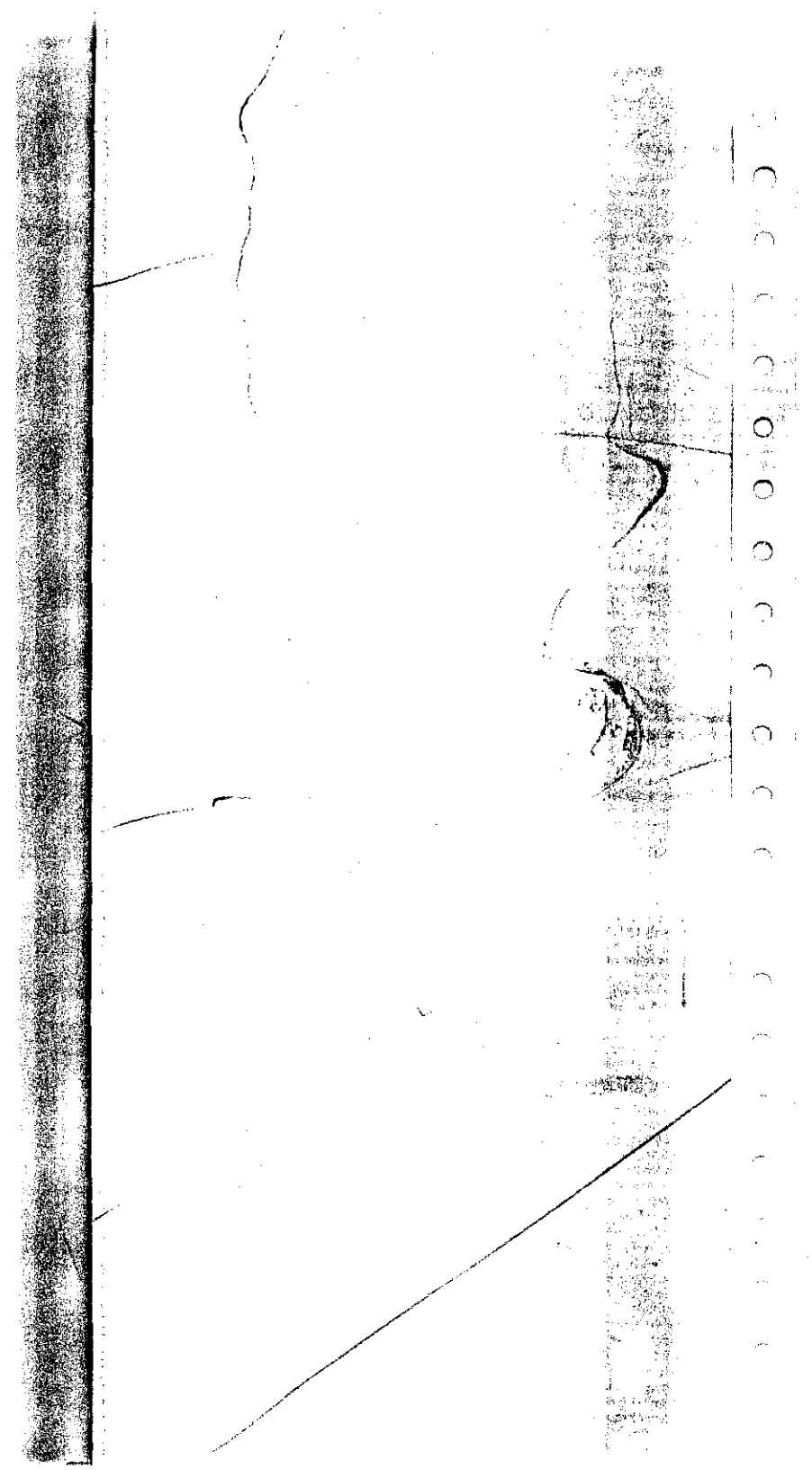
MEAN= -0.69 STD.DEV.= 1.24 COEF.VAR.= 99.99 %

SE 0011

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.552	0.042	0.555
PEAK AREA (ABS-SECONDS)	0.665	0.037	0.627

READ: 9.94 A

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.549	0.042	0.542
PEAK AREA (ABS-SECONDS)	0.680	0.043	0.637



	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.549	0.042	0.542
PEAK AREA (ABS-SECONDS)	0.680	0.043	0.637

READ: 11.53 107.32 ✓

MEAN= 10.73 STD.DEV.= 1.12 COEF.VAR.= 10.48 %

****

SE 0012

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.575	0.018	0.575
PEAK AREA (ABS-SECONDS)	0.674	0.003	0.672

READ: -0.28 9504 G211-001 R

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.600	0.016	0.592
PEAK AREA (ABS-SECONDS)	0.690	0.008	0.682

READ: 1.30

MEAN= (0.51) STD.DEV.= 1.12 COEF.VAR.= 99.99 %

****

SE 0013

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.575	0.044	0.579
PEAK AREA (ABS-SECONDS)	0.717	0.039	0.678

READ: 10.44 A

0013 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.588	0.039	0.583
PEAK AREA (ABS-SECONDS)	0.715	0.035	0.679

READ: 9.34 98.96

MEAN= 9.89 STD.DEV.= 0.78 COEF.VAR.= 7.88 %

****

SE 0014

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.604	0.035	0.603
PEAK AREA (ABS-SECONDS)	0.719	0.036	0.684

READ: 9.38 9504 G211-001 S

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.586	0.034	0.593
PEAK AREA (ABS-SECONDS)	0.706	0.033	0.672

READ: 8.78 90.86

MEAN= (9.08) STD.DEV.= 0.42 COEF.VAR.= 4.64 %

****

SE 015

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.092	0.070	0.030
PEAK AREA (ABS-SECONDS)	0.147		

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.092	0.070	0.030
PEAK AREA (ABS-SECONDS)	0.147	0.092	0.055

READ: 25.97 ACCU 2 17:27

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.089	0.063	0.028
PEAK AREA (ABS-SECONDS)	0.141	0.089	0.052

READ: 25.04 102.0%

MEAN= 25.50 STD.DEV.= 0.66 COEF.VAR.= 2.57 %

SE 0016

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.018	0.012	0.014
PEAK AREA (ABS-SECONDS)	0.031	0.002	0.028

READ: -0.30 CCB 2 17:31

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.018	0.013	0.016
PEAK AREA (ABS-SECONDS)	0.034	0.006	0.028

READ: 0.65

MEAN= 0.17 STD.DEV.= 0.68 COEF.VAR.= 99.99 %

SE 0017

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.558	0.016	0.553
PEAK AREA (ABS-SECONDS)	0.638	0.009	0.629

READ: 1.75 9504 6211-002

0017 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.563	0.020	0.548
PEAK AREA (ABS-SECONDS)	0.634	0.006	0.628

READ: 0.68 Never 4/12 [illegible]

MEAN= 1.22 STD.DEV.= 0.75 COEF.VAR.= 61.97 %

SE 0018

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.565	0.034	0.558
PEAK AREA (ABS-SECONDS)	0.681	0.033	0.648

READ: 8.68

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.373	0.024	0.368
PEAK AREA (ABS-SECONDS)	0.588	0.021	0.567

READ: 5.10

READ: 5.10

MEAN= 6.89 STD.DEV.= 2.53 COEF.VAR.= 36.78 %

SE 0019

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.566	0.014	0.573
PEAK AREA (ABS-SECONDS)	0.681	0.001	0.680

READ: -0.63 9504G211-002R

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.572	0.025	0.568
PEAK AREA (ABS-SECONDS)	0.684	0.003	0.681

READ: -0.20

MEAN= -0.42 STD.DEV.= 0.31 COEF.VAR.= 74.20 %

SE 0020

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.548	0.038	0.549
PEAK AREA (ABS-SECONDS)	0.702	0.040	0.662

READ: 10.60

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.561	0.036	0.561
PEAK AREA (ABS-SECONDS)	0.698	0.035	0.664

READ: 9.09 9.57

MEAN= 9.85 STD.DEV.= 1.07 COEF.VAR.= 10.85 %

SE 0021

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.607	0.035	0.599
PEAK AREA (ABS-SECONDS)	0.741	0.031	0.710

READ: 8.08 9504G211-002S

0021 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.608	0.031	0.596
PEAK AREA (ABS-SECONDS)	0.744	0.036	0.708

READ: 9.53 8.06

MEAN= 8.80 STD.DEV.= 1.03 COEF.VAR.= 11.69 %

SE 0022

	AA	ZAA	BG
PEAK F T (ABSORBANCE)	0.469	0.015	0.461
PEAK (ABS-SECONDS)	0.690	0.004	0.686

READ: 0.15

READ: 0.15 9504 G211-00 3

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.471	0.016	0.465
PEAK AREA (ABS-SECONDS)	0.687	-0.001	0.688

READ: -1.39

MEAN= -0.62 STD.DEV.= 1.09 COEF.VAR.= 99.99 %

SE 0023

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.524	0.038	0.514
PEAK AREA (ABS-SECONDS)	0.686	0.021	0.665

READ: 5.22

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.489	0.030	0.488
PEAK AREA (ABS-SECONDS)	0.682	0.021	0.661

READ: 5.26 50.48

MEAN= 5.24 STD.DEV.= 0.03 COEF.VAR.= 0.50 %

SE 0024

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.148	0.014	0.146
PEAK AREA (ABS-SECONDS)	0.314	0.008	0.306

READ: 1.30 9504 G211-004

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.152	0.014	0.151
PEAK AREA (ABS-SECONDS)	0.322	0.013	0.310

READ: 2.71

MEAN= 2.00 STD.DEV.= 1.00 COEF.VAR.= 49.85 %

SE 0025

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.148	0.043	0.147
PEAK AREA (ABS-SECONDS)	0.346	0.034	0.312

READ: 8.83

0025 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.151	0.038	0.147
PEAK AREA (ABS-SECONDS)	0.350	0.037	0.313

READ: 9.76 72.93

MEAN= 9.29 STD.DEV.= 0.66 COEF.VAR.= 7.09 %

MEAN= 9.29 STD.DEV.= 0.66 COEF.VAR.= 7.09 %

SE 0026

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.095	0.066	0.035
PEAK AREA (ABS-SECONDS)	0.150	0.088	0.062

READ: 24.85 ACCV 3

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.092	0.064	0.034
PEAK AREA (ABS-SECONDS)	0.148	0.088	0.059

18:11

READ: 24.89 99.5%

MEAN= 24.87 STD.DEV.= 0.02 COEF.VAR.= 0.09 %

SE 0027

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.026	0.015	0.022
PEAK AREA (ABS-SECONDS)	0.044	0.007	0.037

Balance of Run Void next QC out 4/12 RF

READ: 1.01 CCB 3 This QC ok

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.026	0.013	0.018
PEAK AREA (ABS-SECONDS)	0.035	0.007	0.028

18:15 4/12 RF

READ: 1.08

MEAN= 1.04 STD.DEV.= 0.05 COEF.VAR.= 4.89 %

SE 0028

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.208	0.020	0.201
PEAK AREA (ABS-SECONDS)	0.394	0.008	0.387

READ: 1.23 9504G211-005

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.198	0.014	0.197
PEAK AREA (ABS-SECONDS)	0.384	0.001	0.383

READ: -0.64

MEAN= 0.29 STD.DEV.= 1.33 COEF.VAR.= 99.99 %

SE 0029

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.196	0.037	0.190
PEAK AREA (ABS-SECONDS)	0.413	0.034	0.379

READ: 8.84 A

029 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.202	0.035	0.195

IDL = 1.4 ug/L run 2

439

(1)

WESTON Analytics AA5.1 Report

Data File:SE0412T1 Date Collected: 95/04/12 Time:
Method File: Date of Report: Time:
Analyst: RIF

	SE ppb				
ICVF	34.12	MSETO	1		09:31
ICB	-0.06	MSETO	1		09:35
CRA	5.58	MSETO	1		09:39
CCVF1 1	25.42	MSETO	1		09:43
CCB1	-0.05	MSETO	1		09:47
95046211-002	0.55	MSESO	1	956F767	09:51
95046211-005	0.77	MSETO	1		09:59
95046211-006	0.78	MSESO	1		10:07
95046211-007	-0.06 W	MSETO	1		10:15
95046211-008	0.56 W	MSESO	1		10:23
CCVF2 2	25.72	MSETO	1		10:31
CCB2	-0.47	MSETO	1		10:35
95046211-009	0.58 W	MSETO	1		10:39
95046211-010	1.03	MSESO	1		10:47
956F768-MB1	-0.81	MSETO	1	956F768	10:55
956F768-LC1	8.08	MSELCS	1	956F768	11:03
95046211-011	0.03	MSETO	1		11:11
CCVF3 3	23.12	MSETO	1		11:19
CCB3	0.22	MSETO	1		11:23

[signature] 4/12/95

[signature] 4-12-95

[signature] 4/12/95

80
95

173

b

Prep Batch

58

95

95

OP No. 21-21G-158
Rev. 00; Eff. Date 02/21/9

WESTON Environmental Metrics, Inc.
AA5 - GFAA PE3030 Analysis Run Log

Element: Se

Filename: Se04127

Lamp: EDL Current: 6 Energy: 52

QC a. Standard b

Autosampler Tray #1

Sn	AS Pos#	QC/RFW #	Dil.	Rerun	MSA	Prep Batch
1	6	AICV				
2	7	ICB				
3	8	CRA				
4	9	ACCV				
5	10	CCB				
6	11	9504G211-002			GF767	
7	12	A				
8	13	-005				
9	14	A				
10	15	-006				
11	16	A				
12	17	-007				
13	18	A				
14	19	-008				
15	20	A				
16	21	ACCV				
17	22	CCB				
18	23	009				
19	24	A				
20	25	010				
21	26	A				
22	27	95GF768-MB1			GF768	
23	28	A				
24	29	LC1				
25	30	A				
26	31	9504G211-011				
27	32	A				
28	33	ACCV				
29	34	CCB				
30	35	-012				
31	36	A				
32	37	-013				
33	38	A				
34	39	-014				
35	40	A				

Autosampler Tray #2

Sn	AS Pos#	QC/RFW #	Dil.	Rerun	MSA	P B
36	1	-015				
37	2	A				
38	3	-015R				
39	4	A				
40	5	ACCV				
41	6	CCB				
42	7	-015S				
43	8	Sol-MB1				
44	9	A				
45	10	Sol-LC1				
46	11	A				
47	12	Sol-LC2				
48	13	A				
49	14	ACCV				
50	15	CCB				
51	16	9504G016-009				
52	17	A				
53	18	-009R				
54	19	A				
55	20	ACCV				
56	21	CCB				
57	22					
58	23					
59	24					
60	25					
61	26					
62	27					
63	28					
64	29					
65	30					
66	31			4/12	AF	
67	32					
68	33					
69	34					
70	35					
71	36					
72	37					
73	38					
74	39					
75	40					

Analyst: Randolph Felser Date: 4/12/95

Reviewer: Dan [signature] Date: 4/12/95

S0 0412 T1 Std 1276-73-2

QC 1276-73-3, 4

E-53

0723080PROGRAMMING MODE INSTRUMENT USER METH # 17 - SE DATE: 95/04/12

ELEMENT: SE WAVELENGTH (NM): 196.0 SLIT (NM): 0.7
PYRO COATED TUBE WITH PLATFORM - MAX POWER HEATING - GAS STOP - MATRIX MOD.
PRETREAT TEMP: 900 ATOMIZE TEMP: 2100 CHARACT. MASS (PG) 30.0

1. TECHNIQUE: ZEEMAN
2. LAMP CURRENT (MA): 6
3. SIGNAL PROCESSING: PEAK AREA
4. CALIBRATION: LINEAR
5. TIME (SECONDS): 4.0
6. READ DELAY (SECONDS): 4.0
7. SCREEN FORMAT: 0.4 GRAPHICS
8. PRINTER: MAIN SUPPL
9. RECORDER SIGNAL: 0.2 CONT ABS
10. RECORDER EXP: 1000
11. STATISTICS: 2 AVG. & SD & CV
12. NOMINAL WEIGHT 1.0
13. ROLLOVER(ABS): 1.000
14. BG SCALE: 1.0

15. S1: 5.00
16. S2: 10.00
17. S3: 20.00
18. S4: 40.00
19. S5: 50.00
20. S6:
21. S7:
22. S8:
23. RSLP:

TIME: 09:06

PROGRAMMING MODE HGA 600 USER METH # 17 - SE DATE: 95/04/12

ELEMENT: SE WAVELENGTH (NM): 196.0 SLIT (NM): 0.7
PYRO COATED TUBE WITH PLATFORM - MAX POWER HEATING - GAS STOP - MATRIX MOD.
PRETREAT TEMP: 900 ATOMIZE TEMP: 2100 CHARACT. MASS (PG) 30.0

STEP NUMBER	FURNACE TEMPERATURE	TIME RAMP	TIME HOLD	INTERNAL GASFLOW	READ	RECORDER
1	150	30	5	300	-	-
2	500	10	5	300	-	-
3	20	1	10	300	-	-
4	2200	1	8	0	*	-
5	2700	1	5	300	-	-
6	20	1	1	300	-	-
7	----	1	--	300	-	-
8	----	1	--	300	-	-
9	----	1	--	300	-	-

TIME: 09:07

0723080PROGRAMMING MODE AUTOSAMPLER USER METH # 17 - SE DATE: 95/04/12

SOLUTIONS	LOCATION	VOLUME	BLANK VOLUME
BLANK	00		07
STANDARD 1	01	20	15
STANDARD 2	02	20	15
STANDARD 3	03	20	15
STANDARD 4	04	20	15
STANDARD 5	05	20	15
STANDARD 6	--	05	--
STANDARD 7	--	05	--
STANDARD 8	--	05	--
RESLOPE	--	05	--
MATRIX MODIFIER 1	00	05	--
MATRIX MODIFIER 2	--	05	--
SAMPLE 06 TO 40 WITH MODIFIER - + -		20	15
SAMPLE -- TO -- WITH MODIFIER - + -		20	--

RECAL LOCATIONS: -- : -- : -- : -- : -- NUMBER OF INJECTIONS: 01
LOCATION 00 TO 40

TIME: 09:07

SE

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.020	0.016	0.014
PEAK AREA (ABS-SECONDS)	0.025	0.006	0.019

READ: 0.001

BLK 0.0005

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.016	0.012	0.013
PEAK AREA (ABS-SECONDS)	0.025	0.003	0.022

READ: -0.001

MEAN= 0.000 STD.DEV.= 0.002 COEF.VAR.= 99.99 %

0.000 AUTOZERO

****
SE

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.039	0.020	0.025
PEAK AREA (ABS-SECONDS)	0.074	0.017	0.058

READ: 0.012

S-1 0.0220

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.041	0.026	0.022
PEAK AREA (ABS-SECONDS)	0.077	0.027	0.051

READ: 0.022

MEAN= 0.017 STD.DEV.= 0.007 COEF.VAR.= 41.24 %

****

5.00 STANDARD 1

****
SE

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.062	0.036	0.030
PEAK AREA (ABS-SECONDS)	0.103	0.043	0.059

READ: 11.40

S-2 0.0410

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.064	0.037	0.030
PEAK AREA (ABS-SECONDS)	0.101	0.039	0.062

READ: 10.11

MEAN= 10.75 STD.DEV.= 0.91 COEF.VAR.= 8.51 %

****

10.75

E-50: READING GREATER THAN HIGHEST STANDARD

****

10.13 STANDARD 2

****
SE

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.100	0.070	0.037
PEAK AREA (ABS-SECONDS)	0.149	0.080	0.069

READ: 20.81

S-3 0.0765

(CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.101	0.066	0.041
PEAK AREA (ABS-SECONDS)	0.152	0.073	0.079

READ: 18.97

MEAN= 19.89 STD.DEV.= 1.30 COEF.VAR.= 6.53 %

****

MEAN= 19.89 STD.DEV.= 1.30 COEF.VAR.= 6.53 %

19.89

E-50: READING GREATER THAN HIGHEST STANDARD

19.97 STANDARD 3

SE

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.175	0.125	0.056
PEAK AREA (ABS-SECONDS)	0.243	0.149	0.094

READ: 40.15

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.182	0.127	0.057
PEAK AREA (ABS-SECONDS)	0.248	0.151	0.097

READ: 40.67

MEAN= 40.41 STD.DEV.= 0.37 COEF.VAR.= 0.91 %

40.41

E-50: READING GREATER THAN HIGHEST STANDARD

40.10 STANDARD 4

SE

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.218	0.160	0.064
PEAK AREA (ABS-SECONDS)	0.291	0.183	0.108

READ: 49.31

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.215	0.157	0.062
PEAK AREA (ABS-SECONDS)	0.291	0.187	0.104

READ: 50.22

MEAN= 49.77 STD.DEV.= 0.64 COEF.VAR.= 1.29 %

49.77

E-50: READING GREATER THAN HIGHEST STANDARD

49.89 STANDARD 5

SE 0001

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.166	0.119	0.053
PEAK AREA (ABS-SECONDS)	0.224	0.132	0.092

READ: 35.19

0001 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.167	0.116	0.055
PEAK AREA (ABS-SECONDS)			

S-4
0.1500

S-5
0.1850

cc 0.99998
b 0.0044
M 0.0036
X -1.2037

AICV 9:31

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.167	0.116	0.055
PEAK AREA (ABS-SECONDS)	0.222	0.124	0.098

97.5%

READ: 33.05

MEAN= 34.12 STD.DEV.= 1.51 COEF.VAR.= 4.43 %

SE 0002 ICB

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.026	0.012	0.024
PEAK AREA (ABS-SECONDS)	0.059	0.004	0.055

9:35

READ: -0.05

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.026	0.013	0.025
PEAK AREA (ABS-SECONDS)	0.059	0.004	0.055

READ: -0.06

MEAN= -0.06 STD.DEV.= 0.00 COEF.VAR.= 4.64 %

SE 0003

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.045	0.022	0.028
PEAK AREA (ABS-SECONDS)	0.085	0.025	0.060

CRA 9:39

READ: 5.62

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.046	0.024	0.026
PEAK AREA (ABS-SECONDS)	0.081	0.025	0.057

111.6%

READ: 5.54

MEAN= 5.58 STD.DEV.= 0.05 COEF.VAR.= 0.91 %

SE 0004 ACCV 1

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.125	0.084	0.045
PEAK AREA (ABS-SECONDS)	0.179	0.098	0.081

9:43

READ: 25.78

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.124	0.083	0.043
PEAK AREA (ABS-SECONDS)	0.176	0.095	0.080

101.7%

READ: 25.07

MEAN= 25.42 STD.DEV.= 0.51 COEF.VAR.= 1.99 %

SE 0005 CCB 1

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.028	0.016	0.022
PEAK AREA (ABS-SECONDS)	0.060	0.008	0.052

READ: 0.95

0005 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.026	0.010	0.024
PEAK AREA (ABS-SECONDS)	0.058	0.001	0.058

READ: -1.05

MEAN= -0.05 STD.DEV.= 1.41 COEF.VAR.= 99.99 %

SE 0006

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.465	0.015	0.466
PEAK AREA (ABS-SECONDS)	0.512	0.006	0.506

READ: 0.43 9504G211-002

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.422	0.015	0.424
PEAK AREA (ABS-SECONDS)	0.510	0.007	0.503

READ: 0.67

MEAN= 0.55 STD.DEV.= 0.17 COEF.VAR.= 31.19 %

SE 0007

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.391	0.037	0.392
PEAK AREA (ABS-SECONDS)	0.528	0.039	0.489

READ: 9.56 A

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.434	0.034	0.439
PEAK AREA (ABS-SECONDS)	0.540	0.034	0.507

READ: 8.02 8.79 ✓

MEAN= 8.79 STD.DEV.= 1.09 COEF.VAR.= 12.40 %

SE 0008

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.262	0.016	0.257
PEAK AREA (ABS-SECONDS)	0.424	0.005	0.419

READ: 0.04 9504G211-005

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.264	0.014	0.252
PEAK AREA (ABS-SECONDS)	0.408	0.010	0.397

READ: 1.50

MEAN= 0.77 STD.DEV.= 1.03 COEF.VAR.= 99.99 %

SE 0009

	AA	ZAA	BG

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.238	0.032	0.234
PEAK AREA (ABS-SECONDS)	0.412	0.036	0.376

READ: 8.73

0009 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.254	0.030	0.251
PEAK AREA (ABS-SECONDS)	0.450	0.036	0.414

READ: 8.64 8.69

MEAN= 8.69 STD.DEV.= 0.06 COEF.VAR.= 0.69 %

****

SE 0010

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.230	0.014	0.228
PEAK AREA (ABS-SECONDS)	0.374	0.006	0.368

READ: 0.43 9504 G211-006

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.228	0.018	0.223
PEAK AREA (ABS-SECONDS)	0.374	0.009	0.365

READ: 1.13

MEAN= 0.78 STD.DEV.= 0.49 COEF.VAR.= 63.26 %

****

SE 0011

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.228	0.030	0.224
PEAK AREA (ABS-SECONDS)	0.425	0.041	0.383

READ: 10.14 A

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.229	0.030	0.222
PEAK AREA (ABS-SECONDS)	0.412	0.035	0.377

READ: 8.42 8.87 ✓

MEAN= 9.28 STD.DEV.= 1.22 COEF.VAR.= 13.11 %

****

SE 0012

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.655	0.017	0.645
PEAK AREA (ABS-SECONDS)	0.643	0.007	0.636

READ: 0.57 9504 G211-007 ✓

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.666	0.013	0.679
PEAK AREA (ABS-SECONDS)	0.645	0.002	0.643

READ: -0.69

READ: -0.69

MEAN= -0.06 STD. DEV. = 0.89 COEF. VAR. = 99.99 %

****

SE 0013

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.615	0.028	0.618
PEAK AREA (ABS-SECONDS)	0.671	0.033	0.638

READ: 7.83 A

0013 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.670	0.028	0.659
PEAK AREA (ABS-SECONDS)	0.690	0.035	0.655

READ: 8.33 8.08 ✓

MEAN= 8.08 STD. DEV. = 0.35 COEF. VAR. = 4.38 %

****

SE 0014

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.694	0.017	0.692
PEAK AREA (ABS-SECONDS)	0.572	0.008	0.564

READ: 1.00 9504G211-008 W

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.532	0.016	0.532
PEAK AREA (ABS-SECONDS)	0.502	0.005	0.497

READ: 0.12

MEAN= 0.56 STD. DEV. = 0.62 COEF. VAR. = 99.99 %

****

SE 0015

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.592	0.028	0.583
PEAK AREA (ABS-SECONDS)	0.567	0.034	0.533

READ: 8.09 A

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.637	0.032	0.645
PEAK AREA (ABS-SECONDS)	0.596	0.036	0.561

READ: 8.57 8.32 ✓

MEAN= 8.33 STD. DEV. = 0.34 COEF. VAR. = 4.10 %

****

SE 0016

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.130	0.088	0.048
PEAK AREA (ABS-SECONDS)	0.191	0.098	0.093

READ: 25.82

449

READ: 25.82

Accv 2 ~~13:18~~ ~~10:29~~ 4/12 RR 10:31 4/25/95

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.127	0.082	0.049
PEAK AREA (ABS-SECONDS)	0.190	0.097	0.093

READ: 25.62 102.9%

MEAN= 25.72 STD.DEV.= 0.14 COEF.VAR.= 0.54 %

SE 0017

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.030	0.011	0.028
PEAK AREA (ABS-SECONDS)	0.069	0.003	0.066

READ: -0.35

CCB 2 ~~13:22~~ ~~10:31~~ 4/12 RR 10:36 4/25/95

0017 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.031	0.011	0.026
PEAK AREA (ABS-SECONDS)	0.071	0.002	0.068

READ: -0.59

MEAN= -0.47 STD.DEV.= 0.17 COEF.VAR.= 37.03 %

SE 0018

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.609	0.016	0.597
PEAK AREA (ABS-SECONDS)	0.891	0.007	0.884

READ: 0.65

9504G211-009

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.596	0.017	0.592
PEAK AREA (ABS-SECONDS)	0.890	0.006	0.884

W

READ: 0.51

MEAN= 0.58 STD.DEV.= 0.10 COEF.VAR.= 16.94 %

SE 0019

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.577	0.042	0.573
PEAK AREA (ABS-SECONDS)	0.947	0.030	0.918

READ: 6.94

A

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.570	0.041	0.575
PEAK AREA (ABS-SECONDS)	0.942	0.033	0.910

READ: 7.74 93.46

MEAN= 7.34 STD.DEV.= 0.56 COEF.VAR.= 7.68 %

MEAN= 7.34 STD.DEV.= 0.56 COEF.VAR.= 7.68 %

SE 0020

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.442	0.017	0.442
PEAK AREA (ABS-SECONDS)	0.530	0.007	0.524

READ: 0.66

9504G211-010

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.424	0.018	0.427
PEAK AREA (ABS-SECONDS)	0.530	0.010	0.520

READ: 1.40

MEAN= 1.03 STD.DEV.= 0.52 COEF.VAR.= 50.71 %

SE 0021

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.409	0.039	0.402
PEAK AREA (ABS-SECONDS)	0.559	0.040	0.520

READ: 9.66

K

0021 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.404	0.036	0.411
PEAK AREA (ABS-SECONDS)	0.560	0.033	0.527

READ: 7.89 ~~8.76~~ ✓

MEAN= 8.77 STD.DEV.= 1.25 COEF.VAR.= 14.26 %

SE 0022

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.034	0.010	0.029
PEAK AREA (ABS-SECONDS)	0.077	0.003	0.075

READ: -0.49

95GF768-MA1

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.031	0.011	0.029
PEAK AREA (ABS-SECONDS)	0.074	0.001	0.074

READ: -1.13

MEAN= -0.81 STD.DEV.= 0.45 COEF.VAR.= 55.99 %

SE 0023

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.062	0.032	0.036
PEAK AREA (ABS-SECONDS)	0.117	0.035	0.083

READ: 8.28

K

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.064	0.034	0.036

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.064	0.034	0.036
PEAK AREA (ABS-SECONDS)	0.119	0.040	0.080

READ: 9.68 89.8% ✓

MEAN= 8.98 STD.DEV.= 0.99 COEF.VAR.= 11.02 %

****

SE 0024

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.060	0.030	0.034
PEAK AREA (ABS-SECONDS)	0.119	0.037	0.082

READ: 8.99 95GF768-2C1

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.060	0.029	0.034
PEAK AREA (ABS-SECONDS)	0.112	0.031	0.081

READ: 7.16 80.8% ✓

MEAN= 8.08 STD.DEV.= 1.29 COEF.VAR.= 15.97 %

****

SE 0025

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.094	0.057	0.042
PEAK AREA (ABS-SECONDS)	0.158	0.069	0.090

READ: 17.74 A

0025 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.098	0.061	0.045
PEAK AREA (ABS-SECONDS)	0.161	0.063	0.097

READ: 16.27 ✓

MEAN= 17.01 STD.DEV.= 1.04 COEF.VAR.= 6.12 %

****

SE 0026

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.090	0.012	0.088
PEAK AREA (ABS-SECONDS)	0.196	0.007	0.189

READ: 0.74 9504G211-011

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.087	0.010	0.084
PEAK AREA (ABS-SECONDS)	0.184	0.002	0.182

READ: -0.68

MEAN= 0.03 STD.DEV.= 1.01 COEF.VAR.= 99.99 %

****

SE 027

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.087	0.035	0.081

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.087	0.035	0.081
PEAK AREA (ABS-SECONDS)	0.231	0.036	0.196

A

452

READ: 8.55

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.087	0.038	0.083
PEAK AREA (ABS-SECONDS)	0.233	0.039	0.195

READ: 9.43 89.98

MEAN= 8.99 STD.DEV.= 0.63 COEF.VAR.= 6.96 %

SE 0028

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.125	0.079	0.051
PEAK AREA (ABS-SECONDS)	0.179	0.090	0.089

READ: 23.63

ACC B ~~11:19~~ 11:19 ~~11:15~~ gw 4/26/95 LG 4/25/95

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.121	0.076	0.048
PEAK AREA (ABS-SECONDS)	0.181	0.086	0.094

READ: 22.61 92.5 %

MEAN= 23.12 STD.DEV.= 0.72 COEF.VAR.= 3.12 %

SE 0029

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.030	0.010	0.031
PEAK AREA (ABS-SECONDS)	0.081	0.003	0.078

READ: -0.56

CC B ~~11:23~~ 11:23 ~~11:19~~ gw 4/26/95 LG 4/25/95

0029 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.033	0.013	0.028
PEAK AREA (ABS-SECONDS)	0.080	0.008	0.072

READ: 1.01

MEAN= 0.22 STD.DEV.= 1.11 COEF.VAR.= 99.99 %

SE 0030

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE) Next QC out	0.822	0.016	0.829
PEAK AREA (ABS-SECONDS)	0.824	0.007	0.817

READ: 0.66 Rerun 4/12 pt

9504 G 768-012 W

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.822	0.022	0.809
PEAK AREA (ABS-SECONDS)	0.799	0.002	0.796

READ: -0.64

(2)

WESTON Analytics AA5.2 Report

Data File:SE0412T2 Date Collected: 95/04/12 Time:
Method File: Date of Report: Time:
Analyst: RIF

	SE ppb				
ICVF	35.66	MSETO	1		15:15
ICB	0.29	MSETO	1		15:19
CRA	4.62	MSETO	1		15:23
CCVF1 1	26.11	MSETO	1		15:27
CCB1	0.87 (W)	MSETO	1		15:31
* 95046211-012	-0.52	MSETO	1	95GF768	15:35
95046211-013	0.54	MSETO	1		15:42
95046211-014	2.16	MSETO	1		15:50
95046211-015	0.17	MSETO	1		15:58
95046211-015R	0.29	MSETOR	1		16:06
CCVF2 2	24.22	MSETO	1		16:14
CCB2	0.84	MSETO	1		16:18
95046211-015S	7.54	MSETOS	1		16:22
SOL_MB1	-0.07	MSETO	1	NONE	16:26
SOL_LC1	9.64	MSETO	1		16:34
SOL_LC2	10.63	MSETO	1		16:43
CCVF3 3	24.67	MSETO	1		16:51
CCB3	0.89	MSETO	1		16:55
* 95036016-009	4.69	MSETO	10	NONE	16:59
95036016-009S	13.80	MSETOS	10		17:03
95036016-009R	2.83	MSETOR	10		17:07
CCVF4	24.84	MSETO	1		17:15
CCB4	-0.07	MSETO	1		17:19

update 4/13/95

4/13/95

4/13/95

IDL = 1.4 ug/L run 3

OP No. 21-21G-1580
Rev. 00; Eff. Date 02/21/95

WESTON Environmental Metrics, Inc.
AA5 - GFAA PE3030 Analysis Run Log

Element: Se

Filename: Se 0412T2

Lamp: EDL Current: 6.0 Energy: 53

QC a. Standard b. CLP

Autosampler Tray #1

Sn	AS Pos#	QC/RFW #	Dil.	Rerun	MSA	Prep Batch
1	6	AICV				
2	7	ICB				
3	8	CRA				
4	9	ACCV				
5	10	CCB				
6	11	9504 G 211 - 012				
7	12	A				
8	13	013				
9	14	A				
10	15	014				
11	16	A				
12	17	015				
13	18	A				
14	19	015R				
15	20	A				
16	21	ACCV				
17	22	CCB				
18	23	015S				
19	[illegible]	Sal - MB1				
20	25	A				
21	26	Sal LC1				
22	27	A				
23	28	Sal LC2				
24	29	A				
25	30	ACCV				
26	31	CCB				
27	32	9504 G016 - 009 10X				
28	33	A				
29	34	-009 10X				
30	35	A				
31	36	ACCV				
32	37	CCCV				
33	38					
34	39		4/12 RF			
35	40					

Autosampler Tray #2

Sn	AS Pos#	QC/RFW #	Dil.	Rerun	MSA	Prep Batch
36	1					
37	2					
38	3					
39	4					
40	5					
41	6					
42	7					
43	8					
44	9					
45	10					
46	11					
47	12					
48	13					
49	14					
50	15					
51	16					
52	17					
53	18					
54	19					
55	20					
56	21		4/12 RF			
57	22					
58	23					
59	24					
60	25					
61	26					
62	27					
63	28					
64	29					
65	30					
66	31					
67	32					
68	33					
69	34					
70	35					
71	36					
72	37					
73	38					
74	39					
75	40					

Analyst: [signature] Date: 4/12/95

Revie[illegible] [signature] Date: 4/13/95

454

Se 0412 T2 Std 1276-73-2
QC 1276-73-3,4
E-53

0723080PROGRAMMING MODE INSTRUMENT USER METH # 17 - SE DATE: 95/04/12

ELEMENT: SE WAVELENGTH (NM): 196.0 SLIT (NM): 0.7
PYRO COATED TUBE WITH PLATFORM - MAX POWER HEATING - GAS STOP - MATRIX MOD.
PRETREAT TEMP: 900 ATOMIZE TEMP: 2100 CHARACT. MASS (PG) 30.0

1. TECHNIQUE: ZEEMAN
2. LAMP CURRENT (MA): 6
3. SIGNAL PROCESSING: PEAK AREA
4. CALIBRATION: LINEAR
5. TIME (SECONDS): 4.0
6. READ DELAY (SECONDS): 4.0
7. SCREEN FORMAT: 0.4 GRAPHICS
8. PRINTER: MAIN SUPPL
9. RECORDER SIGNAL: 0.2 CONT ABS
10. RECORDER EXP: 1000
11. STATISTICS: 2 AVG. & SD & CV
12. NOMINAL WEIGHT 1.0
13. ROLLOVER(ABS): 1.000
14. BG SCALE: 1.0

15. S1: 5.00
16. S2: 10.00
17. S3: 20.00
18. S4: 40.00
19. S5: 50.00
20. S6:
21. S7:
22. S8:
23. RSLP:

TIME: 14:49

PROGRAMMING MODE HGA 600 USER METH # 17 - SE DATE: 95/04/12

ELEMENT: SE WAVELENGTH (NM): 196.0 SLIT (NM): 0.7
PYRO COATED TUBE WITH PLATFORM - MAX POWER HEATING - GAS STOP - MATRIX MOD.
PRETREAT TEMP: 900 ATOMIZE TEMP: 2100 CHARACT. MASS (PG) 30.0

STEP NUMBER	FURNACE TEMPERATURE	TIME RAMP	TIME HOLD	INTERNAL GASFLOW	READ	RECORDER
1	150	30	5	300	-	-
2	500	10	5	300	-	-
3	20	1	10	300	-	-
4	2200	1	8	0	*	-
5	2700	1	5	300	-	-
6	20	1	1	300	-	-
7	----	1	--	300	-	-
8	----	1	--	300	-	-
9	----	1	--	300	-	-

TIME: 14:49

0723080PROGRAMMING MODE AUTOSAMPLER USER METH # 17 - SE DATE: 95/04/12

SOLUTIONS	LOCATION	VOLUME	BLANK VOLUME
BLANK	00		10
STANDARD 1	01	20	15
STANDARD 2	02	20	15
STANDARD 3	03	20	15
STANDARD 4	04	20	15
STANDARD 5	05	20	15
STANDARD 6	--	05	--
STANDARD 7	--	05	--
STANDARD 8	--	05	--
RESLOPE	--	05	--
MATRIX MODIFIER 1	00	05	--
MATRIX MODIFIER 2	--	05	--
SAMPLE 06 TO 40 WITH MODIFIER - + -		20	15
SAMPLE -- TO -- WITH MODIFIER - + -		20	--

RECAL LOCATIONS: -- ; -- ; -- ; -- NUMBER OF INJECTIONS: 01

LOCATION 00 TO 40

TIME: 14:50

SE

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.028	0.013	0.025
PEAK AREA (ABS-SECONDS)	0.059	0.005	0.054

READ: 0.002

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.029	0.012	0.026
PEAK AREA (ABS-SECONDS)	0.059	0.002	0.057

READ: -0.002

MEAN= 0.000 STD.DEV.= 0.002 COEF.VAR.= 99.99 %

0.000 AUTOZERO

SE

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.054	0.019	0.042
PEAK AREA (ABS-SECONDS)	0.143	0.016	0.127

READ: 0.013

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.058	0.020	0.043
PEAK AREA (ABS-SECONDS)	0.153	0.021	0.132

READ: 0.017

MEAN= 0.015 STD.DEV.= 0.003 COEF.VAR.= 22.92 %

5.00 STANDARD 1

SE

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.070	0.030	0.048
PEAK AREA (ABS-SECONDS)	0.166	0.035	0.131

READ: 10.27

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.074	0.032	0.049
PEAK AREA (ABS-SECONDS)	0.178	0.036	0.142

READ: 10.70

MEAN= 10.49 STD.DEV.= 0.30 COEF.VAR.= 2.89 %

10.49

E-50: READING GREATER THAN HIGHEST STANDARD

10.09 STANDARD 2

SE

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.106	0.057	0.056
PEAK AREA (ABS-SECONDS)			

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.106	0.057	0.056
PEAK AREA (ABS-SECONDS)	0.217	0.068	0.149

S-3
0.070
458

READ: 20.50

(CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.103	0.054	0.080
PEAK AREA (ABS-SECONDS)	0.231	0.072	0.159

READ: 21.72

MEAN= 21.11 STD.DEV.= 0.86 COEF.VAR.= 4.07 %

****

21.11

E-50: READING GREATER THAN HIGHEST STANDARD

****

20.24 STANDARD 3

****

SE

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.167	0.106	0.074
PEAK AREA (ABS-SECONDS)	0.321	0.138	0.184

S-4

READ: 41.08

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.161	0.098	0.068
PEAK AREA (ABS-SECONDS)	0.299	0.137	0.162

0.1375

READ: 40.88

MEAN= 40.98 STD.DEV.= 0.14 COEF.VAR.= 0.34 %

****

40.98

E-50: READING GREATER THAN HIGHEST STANDARD

****

40.23 STANDARD 4

****

SE

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.194	0.125	0.079
PEAK AREA (ABS-SECONDS)	0.359	0.174	0.185

S-5
0.1745

READ: 51.26

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.193	0.123	0.079
PEAK AREA (ABS-SECONDS)	0.362	0.175	0.187

READ: 51.48

cc .99985
6 20.9

MEAN= 51.37 STD.DEV.= 0.15 COEF.VAR.= 0.30 %

****

51.37

E-50: READING GREATER THAN HIGHEST STANDARD

50.61 STANDARD 5

SE 0001

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.154	0.091	0.068
PEAK AREA (ABS-SECONDS)	0.303	0.127	0.176

READ: 36.64

0001 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.150	0.090	0.070
PEAK AREA (ABS-SECONDS)	0.293	0.121	0.173

READ: 34.69

MEAN= 35.66 STD.DEV.= 1.38 COEF.VAR.= 3.88 %

SE 0002

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.048	0.010	0.045
PEAK AREA (ABS-SECONDS)	0.143	0.004	0.140

READ: -0.05

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.060	0.018	0.055
PEAK AREA (ABS-SECONDS)	0.145	0.006	0.139

READ: 0.62

MEAN= 0.29 STD.DEV.= 0.47 COEF.VAR.= 99.99 %

SE 0003

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.060	0.020	0.062
PEAK AREA (ABS-SECONDS)	0.163	0.018	0.145

READ: 4.29

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.059	0.018	0.047
PEAK AREA (ABS-SECONDS)	0.157	0.020	0.137

READ: 4.95

MEAN= 4.62 STD.DEV.= 0.47 COEF.VAR.= 10.12 %

SE 0004

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.121	0.068	0.061
PEAK AREA (ABS-SECONDS)	0.257	0.092	0.165

READ: 26.10

READ: 26.10

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.119	0.066	0.058
PEAK AREA (ABS-SECONDS)	0.254	0.092	0.163

READ: 26.11 104.4%

MEAN= 26.11 STD.DEV.= 0.01 COEF.VAR.= 0.03 %

SE 0005

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.048	0.012	0.047
PEAK AREA (ABS-SECONDS)	0.138	0.006	0.132

READ: 0.77 CCB 15:31

0005 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.048	0.012	0.042
PEAK AREA (ABS-SECONDS)	0.140	0.007	0.133

READ: 0.98

MEAN= 0.87 STD.DEV.= 0.15 COEF.VAR.= 16.87 %

SE 0006

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.978	0.025	0.952
PEAK AREA (ABS-SECONDS)	0.979	0.000	0.979

READ: -1.14 9504G211-012 W

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.948	0.022	0.948
PEAK AREA (ABS-SECONDS)	0.973	0.004	0.969

READ: 0.09

MEAN= -0.52 STD.DEV.= 0.87 COEF.VAR.= 99.99 %

SE 0007 A

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.952	0.032	0.929
PEAK AREA (ABS-SECONDS)	0.984	0.030	0.954

READ: 7.72

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.937	0.032	0.934
PEAK AREA (ABS-SECONDS)	0.978	0.034	0.944

READ: 8.85 82%

MEAN= 8.28 STD.DEV.= 0.80 COEF.VAR.= 9.67 %

MEAN= 8.28 STD.DEV.= 0.80 COEF.VAR.= %

SE 0008

	AA	ZAA	BG

9504G211-013

PEAK HEIGHT (ABSORBANCE)	0.116	0.016	0.114
PEAK AREA (ABS-SECONDS)	0.274	0.009	0.265
READ: 1.44			

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.124	0.010	0.118
PEAK AREA (ABS-SECONDS)	0.273	0.003	0.271
READ: -0.35			

MEAN= 0.54 STD.DEV.= 1.27 COEF.VAR.= 99.99 %

SE 0009

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.120	0.032	0.121
PEAK AREA (ABS-SECONDS)	0.309	0.030	0.278
READ: 7.91			

A

0009 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.128	0.033	0.122
PEAK AREA (ABS-SECONDS)	0.321	0.037	0.284
READ: 9.85			

48.4%

MEAN= 8.88 STD.DEV.= 1.37 COEF.VAR.= 15.41 %

SE 0010

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.142	0.016	0.141
PEAK AREA (ABS-SECONDS)	0.289	0.010	0.279
READ: 1.80			

9504G211-014

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.137	0.016	0.137
PEAK AREA (ABS-SECONDS)	0.285	0.012	0.273
READ: 2.53			

MEAN= 2.16 STD.DEV.= 0.51 COEF.VAR.= 23.61 %

SE 0011

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.150	0.040	0.151
PEAK AREA (ABS-SECONDS)	0.340	0.044	0.296
READ: 12.07			

71

AA ZAA BG

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.142	0.040	0.140
PEAK AREA (ABS-SECONDS)	0.327	0.037	0.290

READ: 9.85 88.0%

MEAN= 10.96 STD. DEV.= 1.57 COEF. VAR.= 14.28 %

SE 0012

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.810	0.018	0.808
PEAK AREA (ABS-SECONDS)	0.865	0.004	0.861

READ: 0.07 9504G211-015

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.778	0.022	0.762
PEAK AREA (ABS-SECONDS)	0.844	0.005	0.839

READ: 0.27

MEAN= 0.17 STD. DEV.= 0.15 COEF. VAR.= 86.33 %

SE 0013

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.793	0.030	0.789
PEAK AREA (ABS-SECONDS)	0.881	0.034	0.847

READ: 9.00 A

0013 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.794	0.030	0.783
PEAK AREA (ABS-SECONDS)	0.881	0.032	0.849

READ: 8.34 87.7%

MEAN= 8.67 STD. DEV.= 0.47 COEF. VAR.= 5.38 %

SE 0014

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.931	0.029	0.929
PEAK AREA (ABS-SECONDS)	0.927	0.006	0.921

READ: 0.55 9504G211-015R

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.938	0.027	0.931
PEAK AREA (ABS-SECONDS)	0.926	0.004	0.922

READ: 0.03

MEAN= 0.29 STD. DEV.= 0.37 COEF. VAR.= 99.99 %

SE 15

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.922	0.035	0.918
PEAK AREA (ABS-SECONDS)			

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.922	0.035	0.918
PEAK AREA (ABS-SECONDS)	0.956	0.035	0.920

A

READ: 9.29

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.922	0.034	0.912
PEAK AREA (ABS-SECONDS)	0.963	0.031	0.931

READ: 8.17 81.2%

MEAN= 8.73 STD. DEV. = 0.80 COEF. VAR. = 9.11 %

SE 0016

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.114	0.067	0.056
PEAK AREA (ABS-SECONDS)	0.217	0.080	0.136

READ: 22.79 ACC J 16:14

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.120	0.068	0.056
PEAK AREA (ABS-SECONDS)	0.231	0.090	0.141

READ: 25.65 96.9%

MEAN= 24.22 STD. DEV. = 2.03 COEF. VAR. = 8.37 %

SE 0017

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.045	0.012	0.038
PEAK AREA (ABS-SECONDS)	0.110	0.007	0.103

READ: 0.97 CCB J 16:18

0017 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.045	0.012	0.039
PEAK AREA (ABS-SECONDS)	0.119	0.006	0.113

READ: 0.71

MEAN= 0.84 STD. DEV. = 0.18 COEF. VAR. = 21.37 %

SE 0018

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.915	0.033	0.909
PEAK AREA (ABS-SECONDS)	0.979	0.032	0.947

READ: 8.37 9504G211-0155

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.900	0.030	0.901
PEAK AREA (ABS-SECONDS)	0.958	0.026	0.932

READ: 6.70 75.4%

READ: 6.70 76.4%

MEAN= 7.54 STD.DEV.= 1.18 COEF.VAR.= 15.63 %

SE 0019

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.050	0.014	0.046
PEAK AREA (ABS-SECONDS)	0.118	0.002	0.115

READ: -0.45 Sol - wet

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.046	0.019	0.041
PEAK AREA (ABS-SECONDS)	0.125	0.005	0.120

READ: 0.30

MEAN= -0.07 STD.DEV.= 0.53 COEF.VAR.= 99.99 %

SE 0020

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.074	0.032	0.044
PEAK AREA (ABS-SECONDS)	0.167	0.037	0.130

READ: 9.80

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.076	0.034	0.049
PEAK AREA (ABS-SECONDS)	0.172	0.038	0.134

READ: 10.04 99.7%

MEAN= 9.92 STD.DEV.= 0.17 COEF.VAR.= 1.72 %

SE 0021

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.074	0.033	0.047
PEAK AREA (ABS-SECONDS)	0.154	0.036	0.118

READ: 9.53 Sol - dil

0021 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.078	0.034	0.045
PEAK AREA (ABS-SECONDS)	0.155	0.037	0.118

READ: 9.75 96.4%

MEAN= 9.64 STD.DEV.= 0.16 COEF.VAR.= 1.61 %

SE 0022

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.113	0.064	0.057
PEAK AREA (ABS-SECONDS)	0.211	0.070	0.141

READ: 19.69

READ: 19.69

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.108	0.062	0.055
PEAK AREA (ABS-SECONDS)	0.211	0.067	0.144

READ: 18.73

MEAN= 19.21 STD.DEV.= 0.68 COEF.VAR.= 3.55 %

SE 0023

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.079	0.035	0.052
PEAK AREA (ABS-SECONDS)	0.171	0.039	0.132

READ: 10.46

Sol-1 C2

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.077	0.033	0.046
PEAK AREA (ABS-SECONDS)	0.162	0.040	0.122

READ: 10.80 106.32

MEAN= 10.63 STD.DEV.= 0.24 COEF.VAR.= 2.27 %

SE 0024

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.110	0.060	0.059
PEAK AREA (ABS-SECONDS)	0.214	0.066	0.148

READ: 18.51

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.107	0.058	0.057
PEAK AREA (ABS-SECONDS)	0.208	0.068	0.139

READ: 19.18

MEAN= 18.83 STD.DEV.= 0.48 COEF.VAR.= 2.53 %

SE 0025

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.118	0.064	0.062
PEAK AREA (ABS-SECONDS)	0.239	0.089	0.150

READ: 25.35

Acc 3

16.51

0025 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.114	0.061	0.057
PEAK AREA (ABS-SECONDS)	0.223	0.085	0.138

READ: 24.00 98.71

MEAN= 24.67 STD.DEV.= 0.96 COEF.VAR.= 3.88 %

MEAN= (24.67) STD.DEV.= 0.96 COEF. VAR. = %

SE 0026

CCB 3 466
16:55

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.047	0.011	0.041
PEAK AREA (ABS-SECONDS)	0.125	0.006	0.119

READ: 0.78

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.057	0.014	0.060
PEAK AREA (ABS-SECONDS)	0.141	0.007	0.133

READ: 0.99

MEAN= 0.89 STD.DEV.= 0.15 COEF.VAR.= 16.57 %

SE 0027

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.129	0.020	0.126
PEAK AREA (ABS-SECONDS)	0.173	0.019	0.154

READ: 4.67 950~~4~~3 G016-009 10Y 4/13 AR

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.121	0.018	0.122
PEAK AREA (ABS-SECONDS)	0.178	0.020	0.158

READ: 4.71

MEAN= 4.69 STD.DEV.= 0.03 COEF.VAR.= 0.72 %

SE 0028

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.122	0.038	0.118
PEAK AREA (ABS-SECONDS)	0.211	0.049	0.163

READ: 13.31 A

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.112	0.046	0.108
PEAK AREA (ABS-SECONDS)	0.208	0.052	0.156

READ: 14.29 91.1%

MEAN= 13.80 STD.DEV.= 0.69 COEF.VAR.= 5.01 %

SE 0029

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)	0.116	0.016	0.116
PEAK AREA (ABS-SECONDS)	0.162	0.013	0.149

READ: 2.80 950~~4~~3 G016-009 R 10Y 4/13 AR

J29 (CONTINUED)

	AA	ZAA	BG
PEAK HEIGHT (ABSORBANCE)			

(2)

IDL = 1.7 ug/L

WESTON Analytics AA4.2 Report

Data File:TL041112 Date collected: 95/04/11 Time:
Method File: Date of Report: Time:
Analyst: BPH/PFK Remarks:

	TL ppb				
AICV	24.31	MTLTO	1		15:11
ICB	0.12	MTLTO	1		15:16
CRA	10.78	MTLTO	1		15:21
ACCV 1	33.73	MTLTO	1		15:26
CCB	-1.08	MTLTO	1		15:31
956F765-MB1	0.44	MTLTO	1	956F765	15:36
956F765-LC1	24.04	MTLTO	2		15:45
956F765-LC2	23.28	MTLTO	2		15:55
95046172-001	0.50	MTLTO	1		16:05
ACCV 2	33.95	MTLTO	1		16:15
CCB	0.09	MTLTO	1		16:19
95046172-002	-1.22	MTLTO	1		16:24
95046172-002R	-0.52	MTLTO	1		16:34
95046172-002S	22.68	MTLTO	2		16:44
956F740-MB1	-1.32	MTLTO	1	956F740	16:54
ACCV 3	36.13	MTLTO	1		17:04
CCB	-0.48	MTLTO	1		17:09
956F740-LC1	25.67	MTLTO	2		17:13
956F740-LC2	26.12	MTLTO	2		17:23
95036047-001	3.85	MTLTO	1		17:33
95036047-001R	3.03	MTLTO	1		17:43
ACCV 4	34.78	MTLTO	1		17:52
CCB	-0.43	MTLTO	1		17:57
95036047-001S	21.73	MTLTO	2		18:02
95036047-002	3.60	MTLTO	1		18:12
ACCV 5	35.96	MTLTO	1		18:41
CCB	-0.35	MTLTO	1		18:46
95046192-004	-0.58	MTLSO	1	NONE	19:01
95046192-004S	19.64	MTLSO	1		19:06
95046192-004R	-0.59	MTLSO	1		19:11
ACCV 6	35.70	MTLTO	1		19:20
CCB	-0.13	MTLTO	1		19:25
• 95036016-009	16.50	MTLTO	1		19:31
95036016-009S	34.81	MTLTO	1		19:35
95036016-009R	14.81	MTLTO	1		19:41
956F767-MB1	-0.46	MTLTO	1	956F767	19:50
956F767-LC1 7	45.44	MTLTO	1		20:00
ACCV	37.05	MTLTO	1		20:10
CCB	-0.58	MTLTO	1		20:15
• 95046211-001	-0.42	MTLTO	1		20:20
95046211-001R	0.35	MTLTO	1		20:29
95046211-001S	40.76	MTLTO	1		20:39
95046211-002	-0.60	MTLTO(sor)	1		20:49
ACCV 8	35.47	MTLTO	1		20:59
CCB	-1.22	MTLTO	1		21:04
95046211-002R	-0.25	MTLTO(sor)	1		21:09
95046211-002S	42.78	MTLTO↓	1		21:18
95046211-003	-1.02 W	MTLTO	1		21:28
95046211-004 9	-1.09	MTLTO(sor)	1		21:38
ACCV	35.78	MTLTO	1		21:47
CCB	0.19	MTLTO	1		21:52
95046211-005	-0.22	MTLTO	1		21:57
95046211-0	-0.79	MTLTO(sor)	1		22:07
95046211-	-0.48	MTLTO	1		22:17
95046211-00	-0.03	MTLTO(sor)	1		22:26
ACCV					

4/12/95

4/12/95

4/12/95

95046211-007	-0.48	MTLTO	1		22:17
95046211-008	-0.03	MTLTO (sw)	1		22:26
ACCV 10	37.40	MTLTO	1		22:36
CCB	-0.23	MTLTO	1		22:41
95046211-009	-1.06	MTLTO	1		22:46
95046211-010	-0.66	MTLTO (sw)	1		22:56
956F768-MB1	-1.28	MTLTO	1	956F768	23:06
956F768-LC1	46.99	MTLTO	1		23:15
ACCV 11	37.12	MTLTO	1		23:25
CCB	-0.31	MTLTO	1		23:30
95046211-011	-0.56	MTLTO	1		23:35
95046211-012	-0.51 W	MTLTO	1		23:45
95046211-013	0.16 W	MTLTO	1		23:55
95046211-014	0.22	MTLTO	1		00:05
ACCV 12	36.85	MTLTO	1		00:15
CCB	0.58	MTLTO	1		00:20
95046211-015	0.39	MTLTO	1		00:24
95046211-015R	-0.26 W	MTLTO	1		00:34
95046211-015S 13	42.18	MTLTO	1		00:44
ACCV	35.22	MTLTO	1		00:54
CCB	-0.98	MTLTO	1		00:59

WESTON Environmental Metrics, Inc.
AA4 - PE5100PC GFAA Sample Analysis Log

OP No. 21-31G-1537
Rev. 01; Eff. Date 03/06/95

Element: TL Lamp: EDL Current: 250 Filename: TL0411XZ
Energy: 35

Prep Batch / Matrix: F765 / F740 QC: (a.) Standard b. CLP

Autosampler Location	QC / Sample ID	Dilution	Rerun	MSA	Comments
1	STD				
2	ICV/CCV				
3	ICB/CCB				
4	CRA				
5	STD				
6	95GF765-MB1				F765/STD/H2O
7	LCL 2X				
8	LCZ 2X				
9	9504G172-001				
10	002				
11	(R)				
12	(S) 2X				
13	95GF740-MB1				F740/STD/SOIL
14	LCL 2X				
15	LCZ 2X				
16	9503G047-001				
17	(R)				
18	(S) 2X				
19	002				
20	MB1				SOL
21	LCL 2X				
22	LCZ 2X				
23	9504G192-004				
24	(R)				
25					
26					
27					
28					
29					
30					
31					
32					
33	DFK				
34	4/11/95				
35					
36					
37					
38					
39	25.00 PPb QC SOLN.				
40	BLANK H2O				

Analyst: [signature] Date: 4/11/95

Reviewer: [signature] Date: 4/12/95

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WESTON Environmental Metrics, Inc.
AA4 - PE5100PC GFAA Sample Analysis Log

OP No. 21-3
Rev. 01; Eff. Date

Filename: T1G411[illegible]

Element: T1 Lamp: EDL Current: 250 Energy: 39

Prep Batch / Matrix: F767/F768 QC: a. Standard (b.) CL

Autosampler Location	QC / Sample ID	Dilution	Rerun	MSA	Comments
1	STD				
2	ICV/CCV				
3	ICB/CCB				
4	CRA				
5	STD PFK 4/11/95				
6	9504G ~~4~~016-009				DW
7	-009R				
8	95GF767-MB1				F767/CLP/H2O
9	-LC1				
10	9504G ~~12~~211-001				
11	-001R				
12	-001S				
13	-002 (SOL)				
14	-002R				
15	-002S				
16	-003				
17	-004 (SOL)				
18	-005				
19	-006 (SOL)				
20	-007				
21	-008 (SOL)				
22	-009 PFK 4/11/95				
23	-010 (~~0~~SOL)				
24	95GF768-MB1				
25	-LC1				
26	9504G211 ~~-00~~011				
27	PFK 4/11/95 -012				
28	-013				
29	-014				
30	-015				
31	-015R				
32	-015S				
33					
34					
35					
36					
37	BPH 4/12/95				
38					
39	ICV 25.00 ppb				
40	Blank H2O				

Analyst: Paul F. Holaczyk Date: 4/11/95

Reviewer: [signature] Date: 4/12/95

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Element File: TL_CLP.GEL
Element: Tl Analyst: DAK/BH
Print Data: Main+Suppl. Peak Storage: None
Remarks:
 REMARK 1: MATRIX MODIFIER = Pd(NO3)2 & CITRIC ACID
 REMARK 2: ANALYST-BRYAN HOST/PAUL KOLARCZYK
 REMARK 3: STANDARDS 1276-74-6, QC 1276-73-7
 REMARK 4: LAMP SERIAL # = 521488
 IDL=1.7

INSTRUMENT: 5100 Technique: HGA
Wavelength: 276.8 Peak Slit: 0.70 Low
Signal Type: Zeeman AA Signal Measurement: Peak Area
Read Time: 7.0 Read Delay: 0 BOC Time: 2
Sample Replicates: 2 if <= 60.00 ug/L, 2 if > 60.10 ug/L, else 2
Standard Replicates: 2 Spike Replicates: Same as Sample

CALIBRATION:

Solutions	ID	Conc	Location	Volume	Diluent Volume	Modifier #1	Modifier #2
Calib. Blank	S0.00		40	20	8	5	
Standard 1	S10.00	10.00	4	20	8	5	
Standard 2	S20.00	20.00	5	8	20	5	
Standard 3	S30.00	30.00	5	12	16	5	
Standard 4	S50.00	50.00	1	10	18	5	
Standard 5	S60.00	60.00	1	12	16	5	
Samples				20	8	5	

 Diluent Location: 40
 Modifier #1 Location: 0 Modifier #2 Location:
 Calibration Units: ug/L Sample Units: ug/L
 Calibration Type: Linear

Furnace Time/Temperature Program:

Step	Temp	Ramp	Hold	Gas Flow	Read	Gas Type
1	130	5	15	300		Norm
2	300	20	10	300		Alt
3	1000	15	8	300		Alt
4	20	1	7	300		Alt
5	1800	0	5	0	*	Alt
6	2700	1	3	300		Alt

Injection Temp: 20 Pipette Speed: 100%

SEQUENCE:

Step	Action and Parameters
1	Pipet diluent + modifier 1 + modifier 2 + spike + sample/std
2	Run HGA steps 1 to End

CHECKS:
Recalibration Type: Completely Recalibrate
Locations: None

Conc. Above Calibration Action: Print Message Only
Alternate Sample Volumes (uL): 4
Run Alternate Volume Blanks: No

If %RSD > 20.0 and Concentration > 10 then Retry 1 times
Check %RSD on: Standards + QC Samples

Recovery Measurements:
8 uL of 50.0 ug/L Standard at Location 5 Gives 20.00 ug/L
Measure Recovery on Samples: 6-39
Add to QC Samples: No % Recovery Limits:

QC:

#	A/S Loc.	QC Sample ID	Conc. Limits Lower	Conc. Limits Upper	After Calib	Periodic Check	At End	Count As Sample
1	39	AICV	22.5	27.5	X			
2	3	ICB	-5.0	2.0	X			
3	4	CRA	5.0	15.0	X			X
4	2	ACCV	31.5	38.5	X	X	X	
5	3	CCB	-5.0	2.0	X	X	X	

Run Periodic QC Samples: Every 8
Out of Limit Action: Recalibrate and Rerun Samples

Matrix Check Calculations:
% Difference for Dupls: No Locations:
% Recovery for Spike: No Locations: Conc:

Element File: TL_CLP.GEL Element: Tl Wavelength: 276.8
Date: 04/11/95 Time: 14:31 Slit: 0.70 L
Data File: TL0411X2.DAT ID/Wt File: TL041102.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 39
Remark 1: REMARK 1: MATRIX MODIFIER = Pd(NO3)2 & CITRIC ACID
Remark 2: REMARK 2: ANALYST-BRYAN HOST/PAUL KOLARCZYK
Remark 3: REMARK 3: STANDARDS 1276-74-6, QC 1276-73-7
Remark 4: REMARK 4: LAMP SERIAL # = 521488
Remark 5: IDL=1.7

Tl ID: S0.00 Seq. No.: 00001 A/S Pos.: 40 Date: 04/11/95

Replicate 1 Time: 14:39
Peak Area (A-s): 0.008 Peak Height (A): 0.016
Background Pk Area (A-s): -0.017 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): 0.008

Replicate 2 Time: 14:41
Peak Area (A-s): -0.001 Peak Height (A): 0.016
Background Pk Area (A-s): -0.012 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): -0.001

Mean Pk Area (A-s): 0.003 SD: 0.0065 RSD(%): 203.85

Auto-zero performed.

Tl ID: S10.00 Seq. No.: 00002 A/S Pos.: 4 Date: 04/11/95

Replicate 1 Time: 14:43
Peak Area (A-s): 0.050 Peak Height (A): 0.073
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.046

Replicate 2 Time: 14:46
Peak Area (A-s): 0.045 Peak Height (A): 0.077
Background Pk Area (A-s): 0.018 Background Pk Height (A): 0.043
Blank Corrected Pk Area (A-s): 0.042

Mean Pk Area (A-s): 0.044 SD: 0.0031 RSD(%): 7.12

Standard number 1 applied. [10.00]
Correlation coefficient: 1.00000 Slope: 0.0044 Int: -0.000

Tl ID: S20.00 Seq. No.: 00003 A/S Pos.: 5 Date: 04/11/95

Replicate 1 Time: 14:48
Peak Area (A-s): 0.093 Peak Height (A): 0.135
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.091
Blank Corrected Pk Area (A-s): 0.090
Concentration (ug/L): 20.31

Replicate 2 Time: 14:51
Peak Area (A-s): 0.096 Peak Height (A): 0.136
Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.C
Blank Corrected Pk Area (A-s): 0.093

Concentration (ug/L): 21.02

Mean Conc (ug/L): 20.66 SD: 0.500 RSD(%): 2.42

Standard number 2 applied. [20.00]
Correlation coefficient: 0.99983 Slope: 0.0046 Int: -0.000

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T1 ID: S30.00 Seq. No.: 00004 A/S Pos.: 5 Date: 04/11/95

Replicate 1 Time: 14:53
Peak Area (A-s): 0.135 Peak Height (A): 0.198
Background Pk Area (A-s): 0.069 Background Pk Height (A): 0.126
Blank Corrected Pk Area (A-s): 0.132
Concentration (ug/L): 29.01

Replicate 2 Time: 14:56
Peak Area (A-s): 0.135 Peak Height (A): 0.194
Background Pk Area (A-s): 0.071 Background Pk Height (A): 0.127
Blank Corrected Pk Area (A-s): 0.132
Concentration (ug/L): 29.11

Mean Conc (ug/L): 29.06 SD: 0.065 RSD(%): 0.22

Standard number 3 applied. [30.00]
Correlation coefficient: 0.99965 Slope: 0.0044 Int: 0.000

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T1 ID: S50.00 Seq. No.: 00005 A/S Pos.: 1 Date: 04/11/95

Replicate 1 Time: 14:58
Peak Area (A-s): 0.228 Peak Height (A): 0.323
Background Pk Area (A-s): 0.129 Background Pk Height (A): 0.216
Blank Corrected Pk Area (A-s): 0.225
Concentration (ug/L): 50.58

Replicate 2 Time: 15:01
Peak Area (A-s): 0.222 Peak Height (A): 0.305
Background Pk Area (A-s): 0.134 Background Pk Height (A): 0.222
Blank Corrected Pk Area (A-s): 0.219
Concentration (ug/L): 49.24

Mean Conc (ug/L): 49.91 SD: 0.952 RSD(%): 1.91

Standard number 4 applied. [50.00]
Correlation coefficient: 0.99988 Slope: 0.0044 Int: 0.000

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T1 ID: S60.00 Seq. No.: 00006 A/S Pos.: 1 Date: 04/11/95

Replicate 1 Time: 15:03
Peak Area (A-s): 0.264 Peak Height (A): 0.350
Background Pk Area (A-s): 0.162 Background Pk Height (A): 0.251
Blank Corrected Pk Area (A-s): 0.260
Concentration (ug/L): 58.72

Replicate 2 Time: 15:06
Peak Area): 0.263 Peak Height (A): 0.359
Background Area (A-s): 0.164 Background Pk Height (A): 0.2
~~~~~~

Backgrounc (Area (A-s): 0.164 Background Pk Height (A): 0.2

Blank Corrected Pk Area (A-s): 0.260
Concentration (ug/L): 58.69

Mean Conc (ug/L): 58.71 SD: 0.025 RSD(%): 0.04

Standard number 5 applied. [60.00]
Correlation coefficient: 0.99978 Slope: 0.0044 Int: 0.001

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T1 ID: AICV Seq. No.: 00007 A/S Pos.: 39 Date: 04/11/95

Replicate 1 Time: 15:08
Peak Area (A-s): 0.111 Peak Height (A): 0.169
Background Pk Area (A-s): 0.060 Background Pk Height (A): 0.108
Blank Corrected Pk Area (A-s): 0.107
Concentration (ug/L): 24.32

Replicate 2 Time: 15:11
Peak Area (A-s): 0.110 Peak Height (A): 0.164
Background Pk Area (A-s): 0.060 Background Pk Height (A): 0.105
Blank Corrected Pk Area (A-s): 0.107
Concentration (ug/L): 24.29

Mean Conc (ug/L): 24.31 SD: 0.021 RSD(%): 0.09

QC sample is within range 22.5 - 27.5

~~~~~~

T1 ID: ICB Seq. No.: 00008 A/S Pos.: 3 Date: 04/11/95

Replicate 1 Time: 15:13
Peak Area (A-s): 0.001 Peak Height (A): 0.022
Background Pk Area (A-s): -0.010 Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.85

Replicate 2 Time: 15:16
Peak Area (A-s): 0.009 Peak Height (A): 0.016
Background Pk Area (A-s): -0.019 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.08

Mean Conc (ug/L): 0.12 SD: 1.370 RSD(%): 1186.21

QC sample is within range -5.0 - 2.0

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T1 ID: CRA Seq. No.: 00009 A/S Pos.: 4 Date: 04/11/95

Replicate 1 Time: 15:18
Peak Area (A-s): 0.051 Peak Height (A): 0.082
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.048
Concentration (ug/L): 10.68

Replicate Time: 15:21
Peak Area (A-s): 0.052 Peak Height (A): 0.080
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.046
~~~~~~

Blank Corrected Pk Area (A-s): 0.049

476

Concentration (ug/L): 10.88

Mean Conc (ug/L): 10.78 SD: 0.142 RSD(%): 1.32

QC sample is within range 5.0 - 15.0

~~~~~~

Tl ID: ACCV Seq. No.: 00010 A/S Pos.: 2 Date: 04/11/95

Replicate 1 Time: 15:23
Peak Area (A-s): 0.155 Peak Height (A): 0.216
Background Pk Area (A-s): 0.081 Background Pk Height (A): 0.137
Blank Corrected Pk Area (A-s): 0.152
Concentration (ug/L): 34.62

Replicate 2 Time: 15:26
Peak Area (A-s): 0.148 Peak Height (A): 0.223
Background Pk Area (A-s): 0.082 Background Pk Height (A): 0.146
Blank Corrected Pk Area (A-s): 0.144
Concentration (ug/L): 32.84

Mean Conc (ug/L): 33.73 SD: 1.259 RSD(%): 3.73

QC sample is within range 31.5 - 38.5

~~~~~~

Tl ID: CCB Seq. No.: 00011 A/S Pos.: 3 Date: 04/11/95

Replicate 1 Time: 15:28
Peak Area (A-s): -0.001 Peak Height (A): 0.018
Background Pk Area (A-s): -0.009 Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -1.27

Replicate 2 Time: 15:31
Peak Area (A-s): 0.001 Peak Height (A): 0.017
Background Pk Area (A-s): -0.017 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.88

Mean Conc (ug/L): -1.08 SD: 0.274 RSD(%): 25.43

QC sample is within range -5.0 - 2.0

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Tl ID: 95GF765-MB1 Seq. No.: 00012 A/S Pos.: 6 Date: 04/11/95

Replicate 1 Time: 15:33
Peak Area (A-s): 0.007 Peak Height (A): 0.014
Background Pk Area (A-s): -0.016 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 0.50

F765 | STD | H_2O

Replicate 2 Time: 15:36
Peak Area (A-s): 0.006 Peak Height (A): 0.016
Background Pk Area (A-s): -0.014 Background Pk Height (A): 0.0
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.38
~~~~~~

Backgroun k Area (A-s): 0.083   Background Pk Height (A): 0.1

4?7

Blank Corrected Pk Area (A-s): 0.084
Concentration (ug/L): 19.07

Replicate 2   Time: 16:10
Peak Area (A-s): 0.088   Peak Height (A): 0.200
Background Pk Area (A-s): 0.082   Background Pk Height (A): 0.133
Blank Corrected Pk Area (A-s): 0.085
Concentration (ug/L): 19.14

Mean Conc (ug/L): 19.10   95.5%   SD: 0.048   RSD(%): 0.25

Recovery is 93.0%

~~~~~~

Tl ID: ACCV   Seq. No.: 00020   A/S Pos.: 2   Date: 04/11/95

Replicate 1   Time: 16:12
Peak Area (A-s): 0.154   Peak Height (A): 0.219
Background Pk Area (A-s): 0.086   Background Pk Height (A): 0.145
Blank Corrected Pk Area (A-s): 0.150
Concentration (ug/L): 34.20

Replicate 2   Time: 16:15
Peak Area (A-s): 0.151   Peak Height (A): 0.214
Background Pk Area (A-s): 0.092   Background Pk Height (A): 0.151
Blank Corrected Pk Area (A-s): 0.148
Concentration (ug/L): 33.69

Mean Conc (ug/L): 33.95   SD: 0.358   RSD(%): 1.06 ✓

QC sample is within range 31.5 - 38.5

~~~~~~

Tl ID: CCB   Seq. No.: 00021   A/S Pos.: 3   Date: 04/11/95

Replicate 1   Time: 16:17
Peak Area (A-s): 0.011   Peak Height (A): 0.017
Background Pk Area (A-s): -0.020   Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): 0.008
Concentration (ug/L): 1.45

Replicate 2   Time: 16:19
Peak Area (A-s): -0.001   Peak Height (A): 0.012
Background Pk Area (A-s): -0.012   Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -1.26

Mean Conc (ug/L): 0.09   SD: 1.922   RSD(%): 2036.38

QC sample is within range -5.0 - 2.0

~~~~~~

Tl ID: 95040172-002   Seq. No.: 00022   A/S Pos.: 10   Date: 04/11/95

Replicate 1   Time: 16:22
Peak Area ( ): 0.001   Peak Height (A): 0.015
Background Area (A-s): 0.026   Background Pk Height (A): 0.02
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.81
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Tl ID: 95GF740-MB1 Seq. No.: 00030 A/S Pos.: 13 Date: 04/11/95

Replicate 1 Time: 16:56
Peak Area (A-s): 0.092 Peak Height (A): 0.140
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.088
Blank Corrected Pk Area (A-s): 0.089
Concentration (ug/L): 20.00

Replicate 2 Time: 16:59
Peak Area (A-s): 0.096 Peak Height (A): 0.132
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.090
Blank Corrected Pk Area (A-s): 0.092
Concentration (ug/L): 20.88

Mean Conc (ug/L): 20.44 SD: 0.622 RSD(%): 3.04

Recovery is 108.8% 102.2%

~~~~~~

Tl ID: ACCV 3 Seq. No.: 00031 A/S Pos.: 2 Date: 04/11/95

Replicate 1 Time: 17:01
Peak Area (A-s): 0.168 Peak Height (A): 0.223
Background Pk Area (A-s): 0.083 Background Pk Height (A): 0.140
Blank Corrected Pk Area (A-s): 0.165
Concentration (ug/L): 37.44

Replicate 2 Time: 17:04
Peak Area (A-s): 0.156 Peak Height (A): 0.222
Background Pk Area (A-s): 0.092 Background Pk Height (A): 0.148
Blank Corrected Pk Area (A-s): 0.153
Concentration (ug/L): 34.83

Mean Conc (ug/L): 36.13 SD: 1.846 RSD(%): 5.11

QC sample is within range 31.5 - 38.5

~~~~~~

Tl ID: CCB 3 Seq. No.: 00032 A/S Pos.: 3 Date: 04/11/95

Replicate 1 Time: 17:06
Peak Area (A-s): 0.003 Peak Height (A): 0.016
Background Pk Area (A-s): -0.016 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.27

Replicate 2 Time: 17:09
Peak Area (A-s): 0.002 Peak Height (A): 0.013
Background Pk Area (A-s): -0.014 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.69

Mean Conc (ug/L): -0.48 SD: 0.300 RSD(%): 62.66

QC sample is within range -5.0 - 2.0
~~~~~~

Replicate Time: 17:43

Peak Area (A-s): 0.016 Peak Height (A): 0.049
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.013
Concentration (ug/L): 2.57

OK +/- DL

Mean Conc (ug/L): 3.03 SD: 0.642 RSD(%): 21.20

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Tl ID: 9503G047-001R Seq. No.: 00040 A/S Pos.: 17 Date: 04/11/95

Replicate 1 Time: 17:45
Peak Area (A-s): 0.076 Peak Height (A): 0.184
Background Pk Area (A-s): 0.081 Background Pk Height (A): 0.121
Blank Corrected Pk Area (A-s): 0.073
Concentration (ug/L): 16.46

Replicate 2 Time: 17:47
Peak Area (A-s): 0.071 Peak Height (A): 0.167
Background Pk Area (A-s): 0.077 Background Pk Height (A): 0.112
Blank Corrected Pk Area (A-s): 0.068
Concentration (ug/L): 15.25

Mean Conc (ug/L): 15.85 SD: 0.857 RSD(%): 5.41

Recovery is 64.1%

~~~~~~

Tl ID: ACCV Seq. No.: 00041 A/S Pos.: 2 Date: 04/11/95

Replicate 1 Time: 17:50
Peak Area (A-s): 0.155 Peak Height (A): 0.221
Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.146
Blank Corrected Pk Area (A-s): 0.151
Concentration (ug/L): 34.43

Replicate 2 Time: 17:52
Peak Area (A-s): 0.158 Peak Height (A): 0.228
Background Pk Area (A-s): 0.083 Background Pk Height (A): 0.143
Blank Corrected Pk Area (A-s): 0.154
Concentration (ug/L): 35.13

Mean Conc (ug/L): 34.78 SD: 0.499 RSD(%): 1.44

QC sample is within range 31.5 - 38.5

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Tl ID: CCB Seq. No.: 00042 A/S Pos.: 3 Date: 04/11/95

Replicate 1 Time: 17:55
Peak Area (A-s): 0.001 Peak Height (A): 0.013
Background Pk Area (A-s): -0.012 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.79

Replicate 2 Time: 17:57
Peak Area (A-s): 0.004 Peak Height (A): 0.013
Background Area (A-s): -0.015 Background Pk Height (A): 0.0
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.08
~~~~~~

Concentration (ug/L): -0.08

Mean Conc (ug/L): -0.43 SD: 0.501 RSD(%): 115.33

QC sample is within range -5.0 - 2.0

~~~~~~

T1 ID: 9503G047-001S 2 Seq. No.: 00043 A/S Pos.: 18 Date: 04/11/95

Replicate 1 Time: 18:00
Peak Area (A-s): 0.102 Peak Height (A): 0.222
Background Pk Area (A-s): 0.062 Background Pk Height (A): 0.140
Blank Corrected Pk Area (A-s): 0.099
Concentration (ug/L): 22.32

Replicate 2 Time: 18:02
Peak Area (A-s): 0.097 Peak Height (A): 0.220
Background Pk Area (A-s): 0.063 Background Pk Height (A): 0.142
Blank Corrected Pk Area (A-s): 0.093
Concentration (ug/L): 21.13

Mean Conc (ug/L): 21.73 79.2% SD: 0.840 RSD(%): 3.87

~~~~~~

T1 ID: 9503G047-001S 2 Seq. No.: 00044 A/S Pos.: 18 Date: 04/11/95

Replicate 1 Time: 18:05
Peak Area (A-s): 0.138 Peak Height (A): 0.289
Background Pk Area (A-s): 0.089 Background Pk Height (A): 0.203
Blank Corrected Pk Area (A-s): 0.135
Concentration (ug/L): 30.64

Replicate 2 Time: 18:07
Peak Area (A-s): 0.147 Peak Height (A): 0.306
Background Pk Area (A-s): 0.092 Background Pk Height (A): 0.214
Blank Corrected Pk Area (A-s): 0.144
Concentration (ug/L): 32.61

Mean Conc (ug/L): 31.63 SD: 1.392 RSD(%): 4.40

Recovery is 49.5%

~~~~~~

T1 ID: 9503G047-002 Seq. No.: 00045 A/S Pos.: 19 Date: 04/11/95

Replicate 1 Time: 18:09
Peak Area (A-s): 0.020 Peak Height (A): 0.048
Background Pk Area (A-s): 0.133 Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): 0.017
Concentration (ug/L): 3.49

Replicate 2 Time: 18:12
Peak Area (A-s): 0.021 Peak Height (A): 0.045
Background Pk Area (A-s): 0.124 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.018
Concentration (ug/L): 3.71

Mean Conc (ug/L): 3.60 SD: 0.138 RSD(% 4.39
~~~~~~

Replicate Time: 18:29

Peak Area (A-s): 0.118 Peak Height (A): 0.176
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.116
Blank Corrected Pk Area (A-s): 0.115
Concentration (ug/L): 26.11

Replicate 2 Time: 18:31
Peak Area (A-s): 0.116 Peak Height (A): 0.162
Background Pk Area (A-s): 0.062 Background Pk Height (A): 0.111
Blank Corrected Pk Area (A-s): 0.112
Concentration (ug/L): 25.49

Mean Conc (ug/L): 25.80 103.2% SD: 0.438 RSD(%): 1.70

~~~~~~

T1 ID: LC1 SOL 2X Seq. No.: 00050 A/S Pos.: 21 Date: 04/11/95

Replicate 1 Time: 18:34
Peak Area (A-s): 0.205 Peak Height (A): 0.292
Background Pk Area (A-s): 0.117 Background Pk Height (A): 0.201
Blank Corrected Pk Area (A-s): 0.201
Concentration (ug/L): 45.88

Replicate 2 Time: 18:36
Peak Area (A-s): 0.210 Peak Height (A): 0.313
Background Pk Area (A-s): 0.108 Background Pk Height (A): 0.200
Blank Corrected Pk Area (A-s): 0.206
Concentration (ug/L): 47.03

Mean Conc (ug/L): 46.46 SD: 0.815 RSD(%): 1.75

Recovery is 103.3%

~~~~~~

T1 ID: ACCV Seq. No.: 00051 A/S Pos.: 2 Date: 04/11/95

Replicate 1 Time: 18:39
Peak Area (A-s): 0.159 Peak Height (A): 0.232
Background Pk Area (A-s): 0.088 Background Pk Height (A): 0.153
Blank Corrected Pk Area (A-s): 0.156
Concentration (ug/L): 35.40

Replicate 2 Time: 18:41
Peak Area (A-s): 0.164 Peak Height (A): 0.233
Background Pk Area (A-s): 0.092 Background Pk Height (A): 0.145
Blank Corrected Pk Area (A-s): 0.160
Concentration (ug/L): 36.51

Mean Conc (ug/L): 35.96 SD: 0.781 RSD(%): 2.17

QC sample is within range 31.5 - 38.5

~~~~~~

T1 ID: CCB Seq. No.: 00052 A/S Pos.: 3 Date: 04/11/95

Replicate 1 Time: 18:44
Peak Area (A-s): 0.005 Peak Height (A): 0.016
Background Area (A-s): -0.014 Background Pk Height (A): 0.0
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.18
~~~~~~

Concentration (ug/L): 0.18

Replicate 2 Time: 18:46
Peak Area (A-s): 0.001 Peak Height (A): 0.015
Background Pk Area (A-s): -0.017 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.89

Mean Conc (ug/L): -0.35 SD: 0.758 RSD(%): 214.72

QC sample is within range -5.0 - 2.0

~~~~~~

T1 ID: LC2 SOL 2X Seq. No.: 00053 A/S Pos.: 22 Date: 04/11/95

Replicate 1 Time: 18:49
Peak Area (A-s): 0.129 Peak Height (A): 0.173
Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.109
Blank Corrected Pk Area (A-s): 0.126
Concentration (ug/L): 28.55

Replicate 2 Time: 18:51
Peak Area (A-s): 0.119 Peak Height (A): 0.175
Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.109
Blank Corrected Pk Area (A-s): 0.116
Concentration (ug/L): 26.28

Mean Conc (ug/L): 27.42 109.7% SD: 1.601 RSD(%): 5.84

~~~~~~

T1 ID: LC2 SOL 2X Seq. No.: 00054 A/S Pos.: 22 Date: 04/11/95

Replicate 1 Time: 18:53
Peak Area (A-s): 0.204 Peak Height (A): 0.295
Background Pk Area (A-s): 0.115 Background Pk Height (A): 0.193
Blank Corrected Pk Area (A-s): 0.201
Concentration (ug/L): 45.70

Replicate 2 Time: 18:56
Peak Area (A-s): 0.196 Peak Height (A): 0.291
Background Pk Area (A-s): 0.124 Background Pk Height (A): 0.199
Blank Corrected Pk Area (A-s): 0.193
Concentration (ug/L): 43.96

Mean Conc (ug/L): 44.83 SD: 1.226 RSD(%): 2.74

Recovery is 87.1%

~~~~~~

T1 ID: 95040192-004 Seq. No.: 00055 A/S Pos.: 23 Date: 04/11/95

Replicate 1 Time: 18:58
Peak Area (A-s): 0.005 Peak Height (A): 0.013
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.19

Replicate Time: 19:01
Peak Area): -0.001 Peak Height (A): 0.017
Background Area (A-s): 0.006 Background Pk Height (A): 0.01
Blank Corrected Pk Area (A-s): -0.005
~~~~~~

T1 ID: ACCV 4 Seq. No.: 00059 A/S Pos.: 2 Date: 04/11/95

Replicate 1 Time: 19:18
Peak Area (A-s): 0.160 Peak Height (A): 0.230
Background Pk Area (A-s): 0.083 Background Pk Height (A): 0.145
Blank Corrected Pk Area (A-s): 0.157
Concentration (ug/L): 35.69

Replicate 2 Time: 19:20
Peak Area (A-s): 0.160 Peak Height (A): 0.225
Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.152
Blank Corrected Pk Area (A-s): 0.157
Concentration (ug/L): 35.71

Mean Conc (ug/L): 35.70 SD: 0.016 RSD(%): 0.05

QC sample is within range 31.5 - 38.5

T1 ID: CCB 4 Seq. No.: 00060 A/S Pos.: 3 Date: 04/11/95

Replicate 1 Time: 19:23
Peak Area (A-s): 0.006 Peak Height (A): 0.016
Background Pk Area (A-s): -0.015 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.35

Replicate 2 Time: 19:25
Peak Area (A-s): 0.002 Peak Height (A): 0.016
Background Pk Area (A-s): -0.015 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.61

Mean Conc (ug/L): -0.13 SD: 0.675 RSD(%): 521.91

QC sample is within range -5.0 - 2.0

T1 ID: 950/G016-009 3 BRH 4/12/95 Seq. No.: 00062 A/S Pos.: 6 Date: 04/11/95

Replicate 1 Time: 19:28
Peak Area (A-s): 0.079 Peak Height (A): 0.111
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.064
Blank Corrected Pk Area (A-s): 0.076
Concentration (ug/L): 17.13

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Replicate 2 Time: 19:31
Peak Area (A-s): 0.074 Peak Height (A): 0.112
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.071
Blank Corrected Pk Area (A-s): 0.071
Concentration (ug/L): 15.87

Mean Conc (ug/L): 16.50 SD: 0.886 RSD(%): 5.37

T1 ID: 9. /G016-009 3 (5) Seq. No.: 00063 A/S Pos.: 6 Date: 04/11/95

Replicate 1

484

Replicate 1 BAH 4/12/95 Time: 19:33

Peak Area (A-s): 0.151 Peak Height (A): 0.240
Background Pk Area (A-s): 0.092 Background Pk Height (A): 0.163
Blank Corrected Pk Area (A-s): 0.148
Concentration (ug/L): 33.61

Replicate 2 Time: 19:35
Peak Area (A-s): 0.162 Peak Height (A): 0.243
Background Pk Area (A-s): 0.086 Background Pk Height (A): 0.168
Blank Corrected Pk Area (A-s): 0.158
Concentration (ug/L): 36.00

Mean Conc (ug/L): 34.81 SD: 1.693 RSD(%): 4.86 ✓

Recovery is 91.5% ✓

~~~~~~

T1 ID: 9504G016-009R Seq. No.: 00064 A/S Pos.: 7 Date: 04/11/95
3 BAH 4/12/95
Replicate 1 Time: 19:38
Peak Area (A-s): 0.067 Peak Height (A): 0.113
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.071
Blank Corrected Pk Area (A-s): 0.063
Concentration (ug/L): 14.22

Replicate 2 Time: 19:41
Peak Area (A-s): 0.072 Peak Height (A): 0.104
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.068
Blank Corrected Pk Area (A-s): 0.069
Concentration (ug/L): 15.40

Mean Conc (ug/L): 14.81 SD: 0.835 RSD(%): 5.64 ✓

~~~~~~

T1 ID: 9504G016-009R Seq. No.: 00065 A/S Pos.: 7 Date: 04/11/95
3 BAH 4/12/95
Replicate 1 Time: 19:43
Peak Area (A-s): 0.160 Peak Height (A): 0.250
Background Pk Area (A-s): 0.084 Background Pk Height (A): 0.168
Blank Corrected Pk Area (A-s): 0.157
Concentration (ug/L): 35.72

Replicate 2 Time: 19:45
Peak Area (A-s): 0.159 Peak Height (A): 0.249
Background Pk Area (A-s): 0.087 Background Pk Height (A): 0.161
Blank Corrected Pk Area (A-s): 0.155
Concentration (ug/L): 35.32

Mean Conc (ug/L): 35.52 SD: 0.285 RSD(%): 0.80 ✓

Recovery is 103.5% ✓

~~~~~~

T1 ID: 95GF767-MB1 Seq. No.: 00066 A/S Pos.: 8 Date: 04/11/95

Replicate Time: 19:48
Peak Area): 0.006 Peak Height (A): 0.015
Background Area (A-s): -0.013 Background Pk Height (A): 0.0[illegible]
Blank Corrected Pk Area (A-s): 0.003
~~~~~~

Concentrat , (ug/L): 0.41

F46T, [illegible]

485

Replicate 2 — Time: 19:50
Peak Area (A-s): -0.001 — Peak Height (A): 0.014
Background Pk Area (A-s): -0.011 — Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -1.33

Mean Conc (ug/L): -0.46 SD: 1.231 RSD(%): 269.63

~~~~~~

Tl ID: 95GF767-MB1 Seq. No.: 00067 A/S Pos.: 8 Date: 04/11/95

Replicate 1 — Time: 19:53
Peak Area (A-s): 0.096 — Peak Height (A): 0.146
Background Pk Area (A-s): 0.041 — Background Pk Height (A): 0.091
Blank Corrected Pk Area (A-s): 0.093
Concentration (ug/L): 21.00

Replicate 2 — Time: 19:55
Peak Area (A-s): 0.092 — Peak Height (A): 0.143
Background Pk Area (A-s): 0.048 — Background Pk Height (A): 0.091
Blank Corrected Pk Area (A-s): 0.089
Concentration (ug/L): 20.15

Mean Conc (ug/L): 20.57 SD: 0.598 RSD(%): 2.91 ✓

Recovery is 105.2% 102.8%

~~~~~~

Tl ID: 95GF767-LC1 Seq. No.: 00068 A/S Pos.: 9 Date: 04/11/95

Replicate 1 — Time: 19:57
Peak Area (A-s): 0.200 — Peak Height (A): 0.270
Background Pk Area (A-s): 0.123 — Background Pk Height (A): 0.185
Blank Corrected Pk Area (A-s): 0.197
Concentration (ug/L): 44.84

Replicate 2 — Time: 20:00
Peak Area (A-s): 0.205 — Peak Height (A): 0.260
Background Pk Area (A-s): 0.120 — Background Pk Height (A): 0.187
Blank Corrected Pk Area (A-s): 0.202
Concentration (ug/L): 46.05

90.9%

Mean Conc (ug/L): 45.44 SD: 0.860 RSD(%): 1.89 ✓

~~~~~~

Tl ID: 95GF767-LC1 Seq. No.: 00069 A/S Pos.: 9 Date: 04/11/95

Replicate 1 — Time: 20:02
Peak Area (A-s): 0.277 — Peak Height (A): 0.375
Background Pk Area (A-s): 0.170 — Background Pk Height (A): 0.277
Blank Corrected Pk Area (A-s): 0.274
Concentration (ug/L): 62.51

Replicate 2 — Time: 20:05
Peak Area (A-s): 0.273 — Peak Height (A): 0.382
Background Area (A-s): 0.175 — Background Pk Height (A): 0.2
Blank Corre[illegible]ed Pk Area (A-s): 0.270
Concentration (ug/L): 61.54
~~~~~~

Mean Conc (ug/L): 62.02 SD: 0.689 RSD(%): 1.11

Recovery is 82.9%

~~~~~~

T1 ID: ACCV Seq. No.: 00070 A/S Pos.: 2 Date: 04/11/95

Replicate 1 Time: 20:07
Peak Area (A-s): 0.164 Peak Height (A): 0.235
Background Pk Area (A-s): 0.094 Background Pk Height (A): 0.148
Blank Corrected Pk Area (A-s): 0.160
Concentration (ug/L): 36.47

Replicate 2 Time: 20:10
Peak Area (A-s): 0.169 Peak Height (A): 0.230
Background Pk Area (A-s): 0.088 Background Pk Height (A): 0.149
Blank Corrected Pk Area (A-s): 0.165
Concentration (ug/L): 37.63

Mean Conc (ug/L): 37.05 SD: 0.819 RSD(%): 2.21

QC sample is within range 31.5 - 38.5

~~~~~~

T1 ID: CCB Seq. No.: 00071 A/S Pos.: 3 Date: 04/11/95

Replicate 1 Time: 20:12
Peak Area (A-s): 0.002 Peak Height (A): 0.013
Background Pk Area (A-s): -0.012 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.70

Replicate 2 Time: 20:15
Peak Area (A-s): 0.003 Peak Height (A): 0.014
Background Pk Area (A-s): -0.013 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.46

Mean Conc (ug/L): -0.58 SD: 0.172 RSD(%): 29.49

QC sample is within range -5.0 - 2.0

~~~~~~

T1 ID: 9504G211-001 Seq. No.: 00072 A/S Pos.: 10 Date: 04/11/95

Replicate 1 Time: 20:17
Peak Area (A-s): 0.006 Peak Height (A): 0.015
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.35

Replicate 2 Time: 20:20
Peak Area (A-s): -0.001 Peak Height (A): 0.019
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): -0.004
Concentrati (ug/L): -1.18

Mean Conc g/L): -0.42 SD: 1.082 RSD(%) 258.56
~~~~~~

T1 ID: 9504G211-001 Seq. No.: 00073 A/S Pos.: 10 Date: 04/11/95

Replicate 1 Time: 20:22
Peak Area (A-s): 0.090 Peak Height (A): 0.216
Background Pk Area (A-s): 0.063 Background Pk Height (A): 0.141
Blank Corrected Pk Area (A-s): 0.087
Concentration (ug/L): 19.58

Replicate 2 Time: 20:24
Peak Area (A-s): 0.103 Peak Height (A): 0.221
Background Pk Area (A-s): 0.064 Background Pk Height (A): 0.142
Blank Corrected Pk Area (A-s): 0.100
Concentration (ug/L): 22.58

Mean Conc (ug/L): 21.08 SD: 2.120 RSD(%): 10.06

Recovery is 107.5% 105.4%

T1 ID: 9504G211-001R Seq. No.: 00074 A/S Pos.: 11 Date: 04/11/95

Replicate 1 Time: 20:27
Peak Area (A-s): 0.007 Peak Height (A): 0.016
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 0.57

Replicate 2 Time: 20:29
Peak Area (A-s): 0.005 Peak Height (A): 0.017
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.14

Mean Conc (ug/L): 0.35 SD: 0.306 RSD(%): 86.80

T1 ID: 9504G211-001R Seq. No.: 00075 A/S Pos.: 11 Date: 04/11/95

Replicate 1 Time: 20:32
Peak Area (A-s): 0.090 Peak Height (A): 0.205
Background Pk Area (A-s): 0.064 Background Pk Height (A): 0.139
Blank Corrected Pk Area (A-s): 0.087
Concentration (ug/L): 19.65

Replicate 2 Time: 20:34
Peak Area (A-s): 0.090 Peak Height (A): 0.212
Background Pk Area (A-s): 0.071 Background Pk Height (A): 0.144
Blank Corrected Pk Area (A-s): 0.087
Concentration (ug/L): 19.54

Mean Conc (ug/L): 19.60 SD: 0.076 RSD(%): 0.39

Recovery is 96.2% 98.0%

T1 ID: 9 G211-001S Seq. No.: 00076 A/S Pos.: 12 Date: 04/11/95

Replicate 1 Time: 20:37

Replicate 1 Time: 20:37

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Peak Area (A-s): 0.179 Peak Height (A): 0.409
Background Pk Area (A-s): 0.144 Background Pk Height (A): 0.323
Blank Corrected Pk Area (A-s): 0.175
Concentration (ug/L): 39.94

Replicate 2 Time: 20:39
Peak Area (A-s): 0.186 Peak Height (A): 0.404
Background Pk Area (A-s): 0.141 Background Pk Height (A): 0.316
Blank Corrected Pk Area (A-s): 0.183
Concentration (ug/L): 41.58 -0.00 | 50.00 = 81.5%

Mean Conc (ug/L): 40.76 SD: 1.155 RSD(%): 2.83

~~~~~~

Tl ID: 9504G211-001S Seq. No.: 00077 A/S Pos.: 12 Date: 04/11/95

Replicate 1 Time: 20:42
Peak Area (A-s): 0.242 Peak Height (A): 0.504
Background Pk Area (A-s): 0.191 Background Pk Height (A): 0.452
Blank Corrected Pk Area (A-s): 0.239
Concentration (ug/L): 54.47

Replicate 2 Time: 20:44
Peak Area (A-s): 0.247 Peak Height (A): 0.487
Background Pk Area (A-s): 0.194 Background Pk Height (A): 0.436
Blank Corrected Pk Area (A-s): 0.244
Concentration (ug/L): 55.64

Mean Conc (ug/L): 55.05 SD: 0.827 RSD(%): 1.50

Recovery is 71.5%

~~~~~~

Tl ID: 9504G211-002 Seq. No.: 00078 A/S Pos.: 13 Date: 04/11/95

Replicate 1 Time: 20:46
Peak Area (A-s): 0.005 Peak Height (A): 0.013
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.12

Replicate 2 Time: 20:49
Peak Area (A-s): -0.001 Peak Height (A): 0.015
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -1.33

Mean Conc (ug/L): -0.60 SD: 1.025 RSD(%): 170.60

~~~~~~

Tl ID: 9504G211-002 Seq. No.: 00079 A/S Pos.: 13 Date: 04/11/95

Replicate 1 Time: 20:51
Peak Area (A-s): 0.091 Peak Height (A): 0.212
Background Pk Area (A-s): 0.071 Background Pk Height (A): 0.14P
Blank Corre d Pk Area (A-s): 0.088
Concentrat (ug/L): 19.89

Replicate 2 Time: 20:54
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Replicate Time: 20:54

Peak Area (A-s): 0.095 Peak Height (A): 0.228
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.146
Blank Corrected Pk Area (A-s): 0.092
Concentration (ug/L): 20.83

Mean Conc (ug/L): 20.36 SD: 0.666 RSD(%): 3.27 ✓

Recovery is 104.8% 101.8%

~~~~~~

T1 ID: ACCV4 Seq. No.: 00080 A/S Pos.: 2 Date: 04/11/95

Replicate 1 Time: 20:56
Peak Area (A-s): 0.155 Peak Height (A): 0.234
Background Pk Area (A-s): 0.097 Background Pk Height (A): 0.157
Blank Corrected Pk Area (A-s): 0.152
Concentration (ug/L): 34.52

Replicate 2 Time: 20:59
Peak Area (A-s): 0.163 Peak Height (A): 0.231
Background Pk Area (A-s): 0.095 Background Pk Height (A): 0.153
Blank Corrected Pk Area (A-s): 0.160
Concentration (ug/L): 36.41

Mean Conc (ug/L): 35.47 SD: 1.332 RSD(%): 3.76 ✓

QC sample is within range 31.5 - 38.5 ✓

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T1 ID: CCB 4 Seq. No.: 00081 A/S Pos.: 3 Date: 04/11/95

Replicate 1 Time: 21:01
Peak Area (A-s): -0.001 Peak Height (A): 0.015
Background Pk Area (A-s): -0.015 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -1.24

Replicate 2 Time: 21:04
Peak Area (A-s): -0.001 Peak Height (A): 0.013
Background Pk Area (A-s): -0.013 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -1.19

Mean Conc (ug/L): -1.22 SD: 0.030 RSD(%): 2.46

QC sample is within range -5.0 - 2.0 ✓

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T1 ID: 9504G211-002R Seq. No.: 00082 A/S Pos.: 14 Date: 04/11/95

Replicate 1 Time: 21:06
Peak Area (A-s): 0.004 Peak Height (A): 0.014
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.070
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.07

Replicate Time: 21:09
Peak Area (A-s): 0.003 Peak Height (A): 0.014
Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.020
~~~~~~

Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.020

490

Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.44

Mean Conc (ug/L): -0.25 SD: 0.257 RSD(%): 100.73

T1 ID: 9504G211-002R Seq. No.: 00083 A/S Pos.: 14 Date: 04/11/95

Replicate 1 Time: 21:11
Peak Area (A-s): 0.093 Peak Height (A): 0.207
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.143
Blank Corrected Pk Area (A-s): 0.090
Concentration (ug/L): 20.30

Replicate 2 Time: 21:14
Peak Area (A-s): 0.079 Peak Height (A): 0.172
Background Pk Area (A-s): 0.087 Background Pk Height (A): 0.114
Blank Corrected Pk Area (A-s): 0.076
Concentration (ug/L): 17.18

Mean Conc (ug/L): 18.74 SD: 2.208 RSD(%): 11.78 ✓

Recovery is 95.0% 93.7%

T1 ID: 9504G211-002S Seq. No.: 00084 A/S Pos.: 15 Date: 04/11/95

Replicate 1 Time: 21:16
Peak Area (A-s): 0.188 Peak Height (A): 0.414
Background Pk Area (A-s): 0.146 Background Pk Height (A): 0.330
Blank Corrected Pk Area (A-s): 0.185
Concentration (ug/L): 42.17

Replicate 2 Time: 21:18
Peak Area (A-s): 0.194 Peak Height (A): 0.422
Background Pk Area (A-s): 0.148 Background Pk Height (A): 0.331
Blank Corrected Pk Area (A-s): 0.190
Concentration (ug/L): 43.38

-0.00 | 50.00 = 85.6%

Mean Conc (ug/L): 42.78 SD: 0.850 RSD(%): 1.99 ✓

T1 ID: 9504G211-002S Seq. No.: 00085 A/S Pos.: 15 Date: 04/11/95

Replicate 1 Time: 21:21
Peak Area (A-s): 0.240 Peak Height (A): 0.510
Background Pk Area (A-s): 0.202 Background Pk Height (A): 0.464
Blank Corrected Pk Area (A-s): 0.237
Concentration (ug/L): 54.06

Replicate 2 Time: 21:23
Peak Area (A-s): 0.250 Peak Height (A): 0.498
Background Pk Area (A-s): 0.205 Background Pk Height (A): 0.463
Blank Corrected Pk Area (A-s): 0.247
Concentration (ug/L): 56.39

Mean Conc /L): 55.22 SD: 1.651 RSD(% ?.99 ✓

Recovery is 62.2%

Recovery i 2.2%

~~~~~~

T1 ID: 9504G211-003 Seq. No.: 00086 A/S Pos.: 16 Date: 04/11/95

"W"

Replicate 1 Time: 21:26
Peak Area (A-s): -0.000 Peak Height (A): 0.019
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.09

Replicate 2 Time: 21:28
Peak Area (A-s): 0.001 Peak Height (A): 0.015
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -0.95

Mean Conc (ug/L): -1.02 SD: 0.105 RSD(%): 10.32

~~~~~~

T1 ID: 9504G211-003 Seq. No.: 00087 A/S Pos.: 16 Date: 04/11/95

Replicate 1 Time: 21:31
Peak Area (A-s): 0.073 Peak Height (A): 0.155
Background Pk Area (A-s): 0.079 Background Pk Height (A): 0.106
Blank Corrected Pk Area (A-s): 0.070
Concentration (ug/L): 15.63

Replicate 2 Time: 21:33
Peak Area (A-s): 0.081 Peak Height (A): 0.161
Background Pk Area (A-s): 0.078 Background Pk Height (A): 0.107
Blank Corrected Pk Area (A-s): 0.077
Concentration (ug/L): 17.46

Mean Conc (ug/L): 16.55 SD: 1.292 RSD(%): 7.81 ✓

Recovery is 87.8% 82.8%

~~~~~~

T1 ID: 9504G211-004 Seq. No.: 00088 A/S Pos.: 17 Date: 04/11/95

Replicate 1 Time: 21:35
Peak Area (A-s): -0.002 Peak Height (A): 0.014
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): -0.005
Concentration (ug/L): -1.56

Replicate 2 Time: 21:38
Peak Area (A-s): 0.002 Peak Height (A): 0.012
Background Pk Area (A-s): -0.010 Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.62

Mean Conc (ug/L): -1.09 SD: 0.660 RSD(%): 60.49

~~~~~~

T1 ID: 9504G211-004 Seq. No.: 00089 A/S Pos.: 17 Date: 04/11/95

Replicate Time: 21:40
Peak Area (A-s): 0.083 Peak Height (A): 0.200
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.175

Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.13_

492

Blank Corrected Pk Area (A-s): 0.080
Concentration (ug/L): 18.10

Replicate 2 Time: 21:43
Peak Area (A-s): 0.083 Peak Height (A): 0.183
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.133
Blank Corrected Pk Area (A-s): 0.080
Concentration (ug/L): 17.97

Mean Conc (ug/L): 18.03 SD: 0.092 RSD(%): 0.51

Recovery is 95.6% 90.2%

~~~~~~

T1 ID: ACCV Seq. No.: 00090 A/S Pos.: 2 Date: 04/11/95

Replicate 1 Time: 21:45
Peak Area (A-s): 0.156 Peak Height (A): 0.223
Background Pk Area (A-s): 0.094 Background Pk Height (A): 0.152
Blank Corrected Pk Area (A-s): 0.153
Concentration (ug/L): 34.84

Replicate 2 Time: 21:47
Peak Area (A-s): 0.165 Peak Height (A): 0.225
Background Pk Area (A-s): 0.091 Background Pk Height (A): 0.159
Blank Corrected Pk Area (A-s): 0.161
Concentration (ug/L): 36.73

Mean Conc (ug/L): 35.78 SD: 1.339 RSD(%): 3.74

QC sample is within range 31.5 - 38.5

~~~~~~

T1 ID: CCB Seq. No.: 00091 A/S Pos.: 3 Date: 04/11/95

Replicate 1 Time: 21:50
Peak Area (A-s): 0.006 Peak Height (A): 0.016
Background Pk Area (A-s): -0.012 Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.35

Replicate 2 Time: 21:52
Peak Area (A-s): 0.005 Peak Height (A): 0.014
Background Pk Area (A-s): -0.017 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.03

Mean Conc (ug/L): 0.19 SD: 0.228 RSD(%): 120.54

QC sample is within range -5.0 - 2.0

~~~~~~

T1 ID: 9504G211-005 Seq. No.: 00092 A/S Pos.: 18 Date: 04/11/95

Replicate 1 Time: 21:55
Peak Area ( ): 0.007 Peak Height (A): 0.017
Background Area (A-s): -0.008 Background Pk Height (A): 0.0.
Blank Corr ed Pk Area (A-s): 0.004
Concentration (ug/L): 0.53
~~~~~~

Concentrat (ug/L): 0.53

493

Replicate 2 Time: 21:57
Peak Area (A-s): 0.000 Peak Height (A): 0.016
Background Pk Area (A-s): -0.008 Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -0.96

Mean Conc (ug/L): -0.22 SD: 1.054 RSD(%): 483.70

~~~~~~

T1 ID: 9504G211-005 Seq. No.: 00093 A/S Pos.: 18 Date: 04/11/95

Replicate 1 Time: 22:00
Peak Area (A-s): 0.089 Peak Height (A): 0.200
Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.129
Blank Corrected Pk Area (A-s): 0.086
Concentration (ug/L): 19.31

Replicate 2 Time: 22:02
Peak Area (A-s): 0.088 Peak Height (A): 0.206
Background Pk Area (A-s): 0.047 Background Pk Height (A): 0.129
Blank Corrected Pk Area (A-s): 0.085
Concentration (ug/L): 19.11

Mean Conc (ug/L): 19.21 SD: 0.141 RSD(%): 0.73 ✓

Recovery is 97.1% 96.0%

~~~~~~

T1 ID: 9504G211-006 Seq. No.: 00094 A/S Pos.: 19 Date: 04/11/95

Replicate 1 Time: 22:05
Peak Area (A-s): 0.003 Peak Height (A): 0.015
Background Pk Area (A-s): -0.012 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): 0.000
Concentration (ug/L): -0.26

Replicate 2 Time: 22:07
Peak Area (A-s): -0.001 Peak Height (A): 0.011
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.010
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -1.31

Mean Conc (ug/L): -0.79 SD: 0.744 RSD(%): 94.39

~~~~~~

T1 ID: 9504G211-006 Seq. No.: 00095 A/S Pos.: 19 Date: 04/11/95

Replicate 1 Time: 22:09
Peak Area (A-s): 0.089 Peak Height (A): 0.228
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.148
Blank Corrected Pk Area (A-s): 0.085
Concentration (ug/L): 19.29

Replicate 2 Time: 22:12
Peak Area (A-s): 0.090 Peak Height (A): 0.214
Background Area (A-s): 0.052 Background Pk Height (A): 0.1
Blank Corr d Pk Area (A-s): 0.087
Concentration (ug/L): 19.55
~~~~~~

Mean Conc (ug/L): 19.42 SD: 0.182 RSD(%): 0.94 ✓

Recovery is 101.1% 97.1%

~~~~~~

T1 ID: 9504G211-007 Seq. No.: 00096 A/S Pos.: 20 Date: 04/11/95

Replicate 1 Time: 22:14
Peak Area (A-s): 0.004 Peak Height (A): 0.016
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.19

Replicate 2 Time: 22:17
Peak Area (A-s): 0.001 Peak Height (A): 0.011
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.77

Mean Conc (ug/L): -0.48 SD: 0.405 RSD(%): 84.19

~~~~~~

T1 ID: 9504G211-007 Seq. No.: 00097 A/S Pos.: 20 Date: 04/11/95

Replicate 1 Time: 22:19
Peak Area (A-s): 0.096 Peak Height (A): 0.208
Background Pk Area (A-s): 0.070 Background Pk Height (A): 0.142
Blank Corrected Pk Area (A-s): 0.093
Concentration (ug/L): 21.02

Replicate 2 Time: 22:21
Peak Area (A-s): 0.086 Peak Height (A): 0.207
Background Pk Area (A-s): 0.069 Background Pk Height (A): 0.139
Blank Corrected Pk Area (A-s): 0.083
Concentration (ug/L): 18.67

Mean Conc (ug/L): 19.84 SD: 1.660 RSD(%): 8.36 ✓

Recovery is 101.6% 99.2%

~~~~~~

T1 ID: 9504G211-008 Seq. No.: 00098 A/S Pos.: 21 Date: 04/11/95

Replicate 1 Time: 22:24
Peak Area (A-s): 0.007 Peak Height (A): 0.012
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.45

Replicate 2 Time: 22:26
Peak Area (A-s): 0.002 Peak Height (A): 0.014
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.52

Mean Conc /L): -0.03 SD: 0.687 RSD(% ?127.54
~~~~~~

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T1 ID: 9504G211-008 Seq. No.: 00099 A/S Pos.: 21 Date: 04/11/95

Replicate 1 Time: 22:29
Peak Area (A-s): 0.084 Peak Height (A): 0.202
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.134
Blank Corrected Pk Area (A-s): 0.081
Concentration (ug/L): 18.25

Replicate 2 Time: 22:31
Peak Area (A-s): 0.090 Peak Height (A): 0.211
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.144
Blank Corrected Pk Area (A-s): 0.087
Concentration (ug/L): 19.62

Mean Conc (ug/L): 18.94 SD: 0.973 RSD(%): 5.14 ✓

Recovery is 94.8% 94.7%

~~~~~~

T1 ID: ACCV 10 Seq. No.: 00100 A/S Pos.: 2 Date: 04/11/95

Replicate 1 Time: 22:34
Peak Area (A-s): 0.168 Peak Height (A): 0.233
Background Pk Area (A-s): 0.087 Background Pk Height (A): 0.152
Blank Corrected Pk Area (A-s): 0.164
Concentration (ug/L): 37.39

Replicate 2 Time: 22:36
Peak Area (A-s): 0.168 Peak Height (A): 0.241
Background Pk Area (A-s): 0.092 Background Pk Height (A): 0.156
Blank Corrected Pk Area (A-s): 0.164
Concentration (ug/L): 37.40

Mean Conc (ug/L): 37.40 SD: 0.009 RSD(%): 0.02 ✓

QC sample is within range 31.5 - 38.5 ✓

~~~~~~

T1 ID: CCB 10 Seq. No.: 00101 A/S Pos.: 3 Date: 04/11/95

Replicate 1 Time: 22:39
Peak Area (A-s): 0.007 Peak Height (A): 0.021
Background Pk Area (A-s): -0.012 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.004
Concentration (ug/L): 0.63

Replicate 2 Time: 22:41
Peak Area (A-s): -0.000 Peak Height (A): 0.014
Background Pk Area (A-s): -0.009 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.09

Mean Conc (ug/L): -0.23 SD: 1.217 RSD(%): 535.75

QC sample i ithin range -5.0 - 2.0 ✓
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T1 ID: 9504G211-009 Seq. No.: 00102 A/S Pos.: 22 Date: 04/11/95

Replicate 1 Time: 22:44
Peak Area (A-s): 0.006 Peak Height (A): 0.013
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.40

Replicate 2 Time: 22:46
Peak Area (A-s): -0.006 Peak Height (A): 0.013
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): -0.010
Concentration (ug/L): -2.52

Mean Conc (ug/L): -1.06 SD: 2.063 RSD(%): 195.30

~~~~~~

T1 ID: 9504G211-009 Seq. No.: 00103 A/S Pos.: 22 Date: 04/11/95

Replicate 1 Time: 22:48
Peak Area (A-s): 0.088 Peak Height (A): 0.189
Background Pk Area (A-s): 0.072 Background Pk Height (A): 0.129
Blank Corrected Pk Area (A-s): 0.085
Concentration (ug/L): 19.11

Replicate 2 Time: 22:51
Peak Area (A-s): 0.088 Peak Height (A): 0.189
Background Pk Area (A-s): 0.074 Background Pk Height (A): 0.121
Blank Corrected Pk Area (A-s): 0.085
Concentration (ug/L): 19.08

Mean Conc (ug/L): 19.10 SD: 0.017 RSD(%): 0.09

Recovery is 100.8% 95.5%

~~~~~~

T1 ID: 9504G211-010 Seq. No.: 00104 A/S Pos.: 23 Date: 04/11/95

Replicate 1 Time: 22:53
Peak Area (A-s): 0.000 Peak Height (A): 0.013
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -0.98

Replicate 2 Time: 22:56
Peak Area (A-s): 0.003 Peak Height (A): 0.015
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.016
Blank Corrected Pk Area (A-s): -0.000
Concentration (ug/L): -0.34

Mean Conc (ug/L): -0.66 SD: 0.452 RSD(%): 68.44

~~~~~~

T1 ID: 9504G211-010 Seq. No.: 00105 A/S Pos.: 23 Date: 04/11/95

Replicate Time: 22:58
Peak Area s): 0.093 Peak Height (A): 0.195
Background Pk Area (A-s): 0.065 Background Pk Height (A): 0.138

Background Area (A-s): 0.065 Background Pk Height (A): 0.13

Blank Corrected Pk Area (A-s): 0.090
Concentration (ug/L): 20.23

Replicate 2 Time: 23:01
Peak Area (A-s): 0.091 Peak Height (A): 0.209
Background Pk Area (A-s): 0.067 Background Pk Height (A): 0.143
Blank Corrected Pk Area (A-s): 0.088
Concentration (ug/L): 19.78

Mean Conc (ug/L): 20.00 SD: 0.322 RSD(%): 1.61 ✓

Recovery is 103.3% 100.0%

~~~~~~

T1 ID: 95GF768-MB1 Seq. No.: 00106 A/S Pos.: 24 Date: 04/11/95

Replicate 1 Time: 23:03
Peak Area (A-s): 0.000 Peak Height (A): 0.011
Background Pk Area (A-s): -0.012 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.01

F768 lcs/soil

Replicate 2 Time: 23:06
Peak Area (A-s): -0.002 Peak Height (A): 0.016
Background Pk Area (A-s): -0.015 Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): -0.005
Concentration (ug/L): -1.55

Mean Conc (ug/L): -1.28 SD: 0.383 RSD(%): 29.99

~~~~~~

T1 ID: 95GF768-MB1 Seq. No.: 00107 A/S Pos.: 24 Date: 04/11/95

Replicate 1 Time: 23:08
Peak Area (A-s): 0.093 Peak Height (A): 0.138
Background Pk Area (A-s): 0.041 Background Pk Height (A): 0.084
Blank Corrected Pk Area (A-s): 0.089
Concentration (ug/L): 20.20

Replicate 2 Time: 23:10
Peak Area (A-s): 0.091 Peak Height (A): 0.135
Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.093
Blank Corrected Pk Area (A-s): 0.088
Concentration (ug/L): 19.88

Mean Conc (ug/L): 20.04 SD: 0.230 RSD(%): 1.15 ✓

Recovery is 106.6% 100.2%

~~~~~~

T1 ID: 95GF768-LC1 Seq. No.: 00108 A/S Pos.: 25 Date: 04/11/95

Replicate 1 Time: 23:13
Peak Area (A-s): 0.207 Peak Height (A): 0.256
Background Pk Area (A-s): 0.126 Background Pk Height (A): 0.179
Blank Corrected Pk Area (A-s): 0.204
Concentration (ug/L): 46.52

Replicate 2 Time: 23:15
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Replicate 2 Time: 23:15

Peak Area (A-s): 0.211 Peak Height (A): 0.260
Background Pk Area (A-s): 0.129 Background Pk Height (A): 0.179
Blank Corrected Pk Area (A-s): 0.208
Concentration (ug/L): 47.47 94.0%

Mean Conc (ug/L): 46.99 SD: 0.669 RSD(%): 1.42 ✓

~~~~~~

T1 ID: 95GF768-LC1 Seq. No.: 00109 A/S Pos.: 25 Date: 04/11/95

Replicate 1 Time: 23:18
Peak Area (A-s): 0.284 Peak Height (A): 0.377
Background Pk Area (A-s): 0.184 Background Pk Height (A): 0.271
Blank Corrected Pk Area (A-s): 0.281
Concentration (ug/L): 64.21

Replicate 2 Time: 23:20
Peak Area (A-s): 0.282 Peak Height (A): 0.365
Background Pk Area (A-s): 0.188 Background Pk Height (A): 0.278
Blank Corrected Pk Area (A-s): 0.279
Concentration (ug/L): 63.72

Mean Conc (ug/L): 63.96 SD: 0.347 RSD(%): 0.54 ✓

Recovery is 84.9%

~~~~~~

T1 ID: ACCV Seq. No.: 00110 A/S Pos.: 2 Date: 04/11/95

Replicate 1 Time: 23:23
Peak Area (A-s): 0.173 Peak Height (A): 0.236
Background Pk Area (A-s): 0.095 Background Pk Height (A): 0.155
Blank Corrected Pk Area (A-s): 0.169
Concentration (ug/L): 38.57

Replicate 2 Time: 23:25
Peak Area (A-s): 0.160 Peak Height (A): 0.233
Background Pk Area (A-s): 0.097 Background Pk Height (A): 0.160
Blank Corrected Pk Area (A-s): 0.157
Concentration (ug/L): 35.66

Mean Conc (ug/L): 37.12 SD: 2.062 RSD(%): 5.56 ✓

QC sample is within range 31.5 - 38.5 ✓

~~~~~~

T1 ID: CCB Seq. No.: 00111 A/S Pos.: 3 Date: 04/11/95

Replicate 1 Time: 23:28
Peak Area (A-s): 0.000 Peak Height (A): 0.015
Background Pk Area (A-s): -0.014 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): -0.003
Concentration (ug/L): -1.04

Replicate 2 Time: 23:30
Peak Area ( ): 0.006 Peak Height (A): 0.017
Background Area (A-s): -0.020 Background Pk Height (A): 0.00
Blank Corre..ed Pk Area (A-s): 0.003
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Concentra(ı (ug/L): 0.43

Mean Conc (ug/L): -0.31 SD: 1.037 RSD(%): 338.63

QC sample is within range -5.0 - 2.0 ✓

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Tl ID: 9504G211-011 Seq. No.: 00112 A/S Pos.: 26 Date: 04/11/95

Replicate 1 Time: 23:33
Peak Area (A-s): 0.008 Peak Height (A): 0.013
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 0.81

Replicate 2 Time: 23:35
Peak Area (A-s): -0.004 Peak Height (A): 0.013
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): -0.007
Concentration (ug/L): -1.92

Mean Conc (ug/L): -0.56 SD: 1.928 RSD(%): 346.17

~~~~~~

Tl ID: 9504G211-011 Seq. No.: 00113 A/S Pos.: 26 Date: 04/11/95

Replicate 1 Time: 23:38
Peak Area (A-s): 0.083 Peak Height (A): 0.173
Background Pk Area (A-s): 0.046 Background Pk Height (A): 0.112
Blank Corrected Pk Area (A-s): 0.080
Concentration (ug/L): 18.04

Replicate 2 Time: 23:40
Peak Area (A-s): 0.095 Peak Height (A): 0.171
Background Pk Area (A-s): 0.044 Background Pk Height (A): 0.112
Blank Corrected Pk Area (A-s): 0.092
Concentration (ug/L): 20.85

Mean Conc (ug/L): 19.45 SD: 1.987 RSD(%): 10.22

Recovery is 100.0% 97.2%

~~~~~~

Tl ID: 9504G211-012 Seq. No.: 00114 A/S Pos.: 27 Date: 04/11/95

Replicate 1 Time: 23:42
Peak Area (A-s): 0.001 Peak Height (A): 0.014
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.89

Replicate 2 Time: 23:45
Peak Area (A-s): 0.004 Peak Height (A): 0.017
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.14

Mean Conc /L): -0.51 SD: 0.531 RSD(% '03.75
~~~~~~

T1 ID: 9504G211-012 Seq. No.: 00115 A/S Pos.: 27 Date: 04/11/95

Replicate 1 Time: 23:47
Peak Area (A-s): 0.078 Peak Height (A): 0.179
Background Pk Area (A-s): 0.069 Background Pk Height (A): 0.113
Blank Corrected Pk Area (A-s): 0.075
Concentration (ug/L): 16.94

Replicate 2 Time: 23:50
Peak Area (A-s): 0.082 Peak Height (A): 0.169
Background Pk Area (A-s): 0.071 Background Pk Height (A): 0.108
Blank Corrected Pk Area (A-s): 0.079
Concentration (ug/L): 17.77

Mean Conc (ug/L): 17.36 SD: 0.587 RSD(%): 3.38 ✓

Recovery is 89.3% 86.8%

T1 ID: 9504G211-013 "W" Seq. No.: 00116 A/S Pos.: 28 Date: 04/11/95

Replicate 1 Time: 23:52
Peak Area (A-s): 0.009 Peak Height (A): 0.020
Background Pk Area (A-s): -0.005 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.006
Concentration (ug/L): 1.05

Replicate 2 Time: 23:55
Peak Area (A-s): 0.001 Peak Height (A): 0.017
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.73

Mean Conc (ug/L): 0.16 SD: 1.257 RSD(%): 803.29

T1 ID: 9504G211-013 Seq. No.: 00117 A/S Pos.: 28 Date: 04/11/95

Replicate 1 Time: 23:57
Peak Area (A-s): 0.077 Peak Height (A): 0.148
Background Pk Area (A-s): 0.045 Background Pk Height (A): 0.103
Blank Corrected Pk Area (A-s): 0.073
Concentration (ug/L): 16.53

Replicate 2 Time: 00:00
Peak Area (A-s): 0.074 Peak Height (A): 0.154
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.108
Blank Corrected Pk Area (A-s): 0.071
Concentration (ug/L): 15.86

Mean Conc (ug/L): 16.19 SD: 0.472 RSD(%): 2.92 ✓

Recovery is 80.2% 81.0%

T1 ID: 9504G211-014 "W" Seq. No.: 00118 A/S Pos.: 29 Date: /12/95

Replicate 1 Time: 00:07

Replicate   Time: 00:02

Peak Area (A-s): 0.007   Peak Height (A): 0.014
Background Pk Area (A-s): 0.001   Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): 0.003
Concentration (ug/L): 0.46

Replicate 2   Time: 00:05
Peak Area (A-s): 0.005   Peak Height (A): 0.017
Background Pk Area (A-s): 0.002   Background Pk Height (A): 0.013
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.03

Mean Conc (ug/L): 0.22   SD: 0.347   RSD(%): 159.12

~~~~~~

T1 ID: 9504G211-014   Seq. No.: 00119   A/S Pos.: 29   Date: 04/12/95

Replicate 1   Time: 00:07
Peak Area (A-s): 0.078   Peak Height (A): 0.184
Background Pk Area (A-s): 0.051   Background Pk Height (A): 0.116
Blank Corrected Pk Area (A-s): 0.075
Concentration (ug/L): 16.81

Replicate 2   Time: 00:10
Peak Area (A-s): 0.076   Peak Height (A): 0.169
Background Pk Area (A-s): 0.049   Background Pk Height (A): 0.113
Blank Corrected Pk Area (A-s): 0.073
Concentration (ug/L): 16.34

Mean Conc (ug/L): 16.58   SD: 0.336   RSD(%): 2.03 ✓

Recovery is 81.8%   82.9%

~~~~~~

T1 ID: ACCV   Seq. No.: 00120   A/S Pos.: 2   Date: 04/12/95

Replicate 1   Time: 00:12
Peak Area (A-s): 0.164   Peak Height (A): 0.237
Background Pk Area (A-s): 0.097   Background Pk Height (A): 0.159
Blank Corrected Pk Area (A-s): 0.161
Concentration (ug/L): 36.57

Replicate 2   Time: 00:15
Peak Area (A-s): 0.166   Peak Height (A): 0.227
Background Pk Area (A-s): 0.097   Background Pk Height (A): 0.163
Blank Corrected Pk Area (A-s): 0.163
Concentration (ug/L): 37.14

Mean Conc (ug/L): 36.85   SD: 0.409   RSD(%): 1.11 ✓

QC sample is within range 31.5 - 38.5 ✓

~~~~~~

T1 ID: CCB   Seq. No.: 00121   A/S Pos.: 3   Date: 04/12/95

Replicate 1   Time: 00:17
Peak Area ( ): 0.002   Peak Height (A): 0.019
Background Area (A-s): -0.014   Background Pk Height (A): 0.0[illegible]
Blank Corrected Pk Area (A-s): -0.001
Concentration (ug/L): -0.55

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~~~~~~

Concentration (ug/L): -0.55

Replicate 2 Time: 00:20
Peak Area (A-s): 0.012 Peak Height (A): 0.017
Background Pk Area (A-s): -0.019 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): 0.009
Concentration (ug/L): 1.72

Mean Conc (ug/L): 0.58 SD: 1.606 RSD(%): 275.23

QC sample is within range -5.0 - 2.0 ✓

~~~~~~

T1 ID: 9504G211-015 Seq. No.: 00122 A/S Pos.: 30 Date: 04/12/95

Replicate 1 Time: 00:22
Peak Area (A-s): 0.005 Peak Height (A): 0.012
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): 0.002
Concentration (ug/L): 0.06

Replicate 2 Time: 00:24
Peak Area (A-s): 0.008 Peak Height (A): 0.023
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): 0.005
Concentration (ug/L): 0.72

Mean Conc (ug/L): 0.39 SD: 0.467 RSD(%): 119.86

~~~~~~

T1 ID: 9504G211-015 Seq. No.: 00123 A/S Pos.: 30 Date: 04/12/95

Replicate 1 Time: 00:27
Peak Area (A-s): 0.085 Peak Height (A): 0.163
Background Pk Area (A-s): 0.061 Background Pk Height (A): 0.111
Blank Corrected Pk Area (A-s): 0.082
Concentration (ug/L): 18.50

Replicate 2 Time: 00:29
Peak Area (A-s): 0.082 Peak Height (A): 0.164
Background Pk Area (A-s): 0.068 Background Pk Height (A): 0.115
Blank Corrected Pk Area (A-s): 0.079
Concentration (ug/L): 17.87

Mean Conc (ug/L): 18.19 SD: 0.448 RSD(%): 2.47 ✓

Recovery is 89.0% 91.0%

~~~~~~

T1 ID: 9504G211-015R "W" Seq. No.: 00124 A/S Pos.: 31 Date: 04/12/95

Replicate 1 Time: 00:32
Peak Area (A-s): 0.004 Peak Height (A): 0.014
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.001
Concentration (ug/L): -0.03

Replicate Time: 00:34
Peak Area): 0.002 Peak Height (A): 0.015
Background Area (A-s): 0.020 Background Pk Height (A): 0.01
Blank Corrected Pk Area (A-s): -0.001
~~~~~~

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Blank Corr .ed Pk Area (A-s): -0.001

Concentration (ug/L): -0.49

Mean Conc (ug/L): -0.26 SD: 0.325 RSD(%): 123.81

~~~~~~

Tl ID: 9504G211-015R Seq. No.: 00125 A/S Pos.: 31 Date: 04/12/95

Replicate 1 Time: 00:37
Peak Area (A-s): 0.079 Peak Height (A): 0.160
Background Pk Area (A-s): 0.071 Background Pk Height (A): 0.111
Blank Corrected Pk Area (A-s): 0.076
Concentration (ug/L): 17.10

Replicate 2 Time: 00:39
Peak Area (A-s): 0.073 Peak Height (A): 0.156
Background Pk Area (A-s): 0.081 Background Pk Height (A): 0.108
Blank Corrected Pk Area (A-s): 0.070
Concentration (ug/L): 15.72

Mean Conc (ug/L): 16.41 SD: 0.973 RSD(%): 5.93 ✓

Recovery is 83.4% 82.0%

~~~~~~

Tl ID: 9504G211-015S Seq. No.: 00126 A/S Pos.: 32 Date: 04/12/95

Replicate 1 Time: 00:42
Peak Area (A-s): 0.184 Peak Height (A): 0.343
Background Pk Area (A-s): 0.186 Background Pk Height (A): 0.268
Blank Corrected Pk Area (A-s): 0.181
Concentration (ug/L): 41.28

Replicate 2 Time: 00:44
Peak Area (A-s): 0.192 Peak Height (A): 0.353
Background Pk Area (A-s): 0.187 Background Pk Height (A): 0.286
Blank Corrected Pk Area (A-s): 0.189
Concentration (ug/L): 43.07 -0.00 /50.00 = 84.4%

Mean Conc (ug/L): 42.18 SD: 1.270 RSD(%): 3.01 ✓

~~~~~~

Tl ID: 9504G211-015S Seq. No.: 00127 A/S Pos.: 32 Date: 04/12/95

Replicate 1 Time: 00:47
Peak Area (A-s): 0.234 Peak Height (A): 0.407
Background Pk Area (A-s): 0.208 Background Pk Height (A): 0.349
Blank Corrected Pk Area (A-s): 0.231
Concentration (ug/L): 52.59

Replicate 2 Time: 00:49
Peak Area (A-s): 0.248 Peak Height (A): 0.398
Background Pk Area (A-s): 0.211 Background Pk Height (A): 0.332
Blank Corrected Pk Area (A-s): 0.244
Concentration (ug/L): 55.77 BAH 4/12/95

Mean Conc ' /L): 54.18 → SD: 2.248 RSD(%` 1.15 ✓

Recovery is 60.0% ✓
~~~~~~

T1 ID: ACCV Seq. No.: 00128 A/S Pos.: 2 Date: 04/12/95

Replicate 1 Time: 00:52
Peak Area (A-s): 0.157 Peak Height (A): 0.208
Background Pk Area (A-s): 0.092 Background Pk Height (A): 0.150
Blank Corrected Pk Area (A-s): 0.154
Concentration (ug/L): 34.95

Replicate 2 Time: 00:54
Peak Area (A-s): 0.159 Peak Height (A): 0.205
Background Pk Area (A-s): 0.091 Background Pk Height (A): 0.140
Blank Corrected Pk Area (A-s): 0.156
Concentration (ug/L): 35.48

Mean Conc (ug/L): 35.22 SD: 0.377 RSD(%): 1.07

QC sample is within range 31.5 - 38.5

T1 ID: CCB Seq. No.: 00129 A/S Pos.: 3 Date: 04/12/95

Replicate 1 Time: 00:57
Peak Area (A-s): -0.001 Peak Height (A): 0.014
Background Pk Area (A-s): -0.013 Background Pk Height (A): 0.008
Blank Corrected Pk Area (A-s): -0.004
Concentration (ug/L): -1.26

Replicate 2 Time: 00:59
Peak Area (A-s): 0.002 Peak Height (A): 0.016
Background Pk Area (A-s): -0.014 Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): -0.002
Concentration (ug/L): -0.71

Mean Conc (ug/L): -0.98 SD: 0.383 RSD(%): 38.85

QC sample is within range -5.0 - 2.0

MERCURY RAW DATA

WESTON Analytical Environmental Services

Mercury Report

IDL 0.2ug/L Run 1

Date of Prep: 04/12/95
Date of Analysis: 04/12/95
Worksheet: GH6218 Run,Batch: 95H6218
Test: MHGTO Method: 245.1
Directory: INORGANICS Analyst: CLB
Instrument: HG3

RFW SAMPLE ID	TEST	INSTRUMENT READOUT ug/L	ug/100mL	DILUTION FACTOR	C/D	FINAL RESULT	CRDL EPA 0.200	UNITS	REPLICATE ORIG SAMPLE RESULT	REP % DIFF	SPIKE TCLP 200 TOTAL 1.00	SAMPLE SPIKE AMOUNT	% RECOV	LCS AMT LCS 2.00	% RECOV	SOILS PREP PREP BATCH	INITIAL SAMPLE WT.	FINAL VOL.	% SOLIDS
95H6218-ICV1	MHGLCS	1.9890	0.19890	1	1.0000	1.9890	0.2000	UG/L						2.0	99.5	95H6218			
95H6218-LCI	MHGLCS	1.9890	0.19890	1	1.0000	1.9890	0.2000	UG/L						2.0	99.5	95H6218			
95H6218-ICB1	MHGTO	-0.0406	-0.00406	1	1.0000	-0.0406 u	0.2000	UG/L								95H6218			
95H6218-CRA1	MHGLCS	0.1659	0.01659	1	1.0000	0.1659 u	0.2000	UG/L						0.2	83.0	95H6218			
95H6218-MB1	MHGTO	-0.0242	-0.00242	1	1.0000	-0.0242 u	0.2000	UG/L								95H6218			
9504G211-002	MHGSO	-0.0249	-0.00249	1	1.0000	-0.0249 u	0.2000	UG/L								95H6218			
9504G211-002R	MHGSOR	-0.0134	-0.00134	1	1.0000	-0.0134 u	0.2000	UG/L	0.000	200.0						95H6218			
9504G211-002S	MHGSOS	1.1640	0.11640	1	1.0000	1.1640	0.2000	UG/L	0.000		1	1.000	116.4			95H6218			
9504G211-004	MHGSO	-0.0220	-0.00220	1	1.0000	-0.0220 u	0.2000	UG/L								95H6218			
9504G211-006	MHGSO	-0.0261	-0.00261	1	1.0000	-0.0261 u	0.2000	UG/L								95H6218			
9504G211-008	MHGSO	-0.0187	-0.00187	1	1.0000	-0.0187 u	0.2000	UG/L								95H6218			
9504G211-010	MHGSO	-0.0178	-0.00178	1	1.0000	-0.0178 u	0.2000	UG/L								95H6218			
9504G211-001	MHGTO	0.0228	0.00228	1	1.0000	0.0228 u	0.2000	UG/L								95H6218			
95H6218-CV1	MHGLCS	1.0320	0.10320	1	1.0000	1.0320	0.2000	UG/L						1.0	103.2	95H6218			
95H6218-LC2	MHGLCS	1.0320	0.10320	1	1.0000	1.0320	0.2000	UG/L						1.0	103.2	95H6218			
95H6218-CB1	MHGTO	-0.0365	-0.00365	1	1.0000	-0.0365 u	0.2000	UG/L								95H6218			
9504G211-001R	MHGTOR	-0.0237	-0.00237	1	1.0000	-0.0237 u	0.2000	UG/L	0.000	200.0						95H6218			
9504G211-001S	MHGTOS	0.9714	0.09714	1	1.0000	0.9714	0.2000	UG/L	0.000		1	1.000	97.1			95H6218			
9504G211-003	MHGTO	0.1058	0.01058	1	1.0000	0.1058 u	0.2000	UG/L								95H6218			
9504G211-005	MHGTO	-0.0179	-0.00179	1	1.0000	-0.0179 u	0.2000	UG/L								95H6218			
9504G211-007	MHGTO	-0.0180	-0.00180	1	1.0000	-0.0180 u	0.2000	UG/L								95H6218			
9504G211-009	MHGTO	-0.0021	-0.00021	1	1.0000	-0.0021 u	0.2000	UG/L								95H6218			
9504G227-011	MHGTO	-0.0044	-0.00044	1	1.0000	-0.0044 u	0.2000	UG/L								95H6218			
9504G227-011R	MHGTOR	-0.0093	-0.00093	1	1.0000	-0.0093 u	0.2000	UG/L	0.000	200.0						95H6218			
9504G227-011S	MHGTOS	0.9478	0.09478	1	1.0000	0.9478	0.2000	UG/L	0.000		1	1.000	94.8			95H6218			
95H6218-CV2	MHGLCS	1.0070	0.10070	1	1.0000	1.0070	0.2000	UG/L						1.0	100.7	95H6218			
95H6218-CB2	MHGTO	-0.0384	-0.00384	1	1.0000	-0.0384 u	0.2000	UG/L								95H6218			

Cheryl L Boyd 4/14/95

Paul F. Wolanczyk 4/15/95

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OP No. 21-21G-1502; Rev. 00; Eff. Date 01/24/95

Circle Method:
a. H2O (EPA 245.1) SW846 7470
b. Soil/Solid - EPA 245.5 / SW846 7471
c. Other -

WESTON Environmental Metrics, Inc.
Mercury Digestion Log/Analytical Run Log

Page #: 14
Book #: 1860
Filename: GH0218

Instrument: Leeman Labs PS200 (HG3) Wavelength: 253.7 nm Optical Cell Length: 20.5 cm
Standard/Matrix Spike Source ID#: 756 ICV/CCV/LCS Source ID#: 698
Water Bath Temperature: Initial 95 C Final 95 C Equip.ID #: 1019 Control Limits: 90 C to 95 C
Thermometer ID: Hg Correction Factor: 0.4 C HNO3 Lot #: 2704KMG1 HCL Lot #: H45043
H2SO4 Lot #: 2876KMG

AS Pos.#	RFW # / QC ID	Sample Size (mls or g per 100 ml final vol)	% Solids	Analytical Dilution	Comments
Std 1	0.0ppb Std	100ml			
" 2	0.2 "	"		CC= 0.9999	
" 3	0.5 "	"		m= 20072.9	
" 4	1.0 "	"		b= 534.2	
" 5	3.0 "	"		X= -0.027	
" 6	5.0 "	"			
					SB 4/13/95
	QC 2 ~~CCV~~ No. LW (LCS) Batch 218(2ppb)	100 mls			
	QC 1 ~~CCB~~ LB (MB)	100 mls			
1	CRA(0.2ppb)	"			
2	MB1	"			
So 3	9504621I-002	"			
So 4	-002R	"			
So 5	-002S(ppb)	"			
So 6	-004	"			
So 7	-006	"			
So 8	-008	"			
So 9	-010	"			
10	-001	"			
	QC 2 CCV No. 1 (LCS) Batch 218(1ppb)	100 mls			
	QC 1 CCB 1 (MB) 4/13/95	100 mls			

Preparation Signature: Cheryl L Boyd Date: 4/12/95 Time In: 1:30pm Time Out: 3:30pm
Analyst Signature: Cheryl L Boyd Date Analyzed: 4/12/95C Date LIMS'd:
Reviewer Signature: [illegible] Date: 4/15/95

Circle Method:
a. H2O - EPA 245.1 / SW846 7470
b. Soil/Solid - EPA 245.5 / SW846 7471
c. Other - _____

WESTON Environmental Metrics, Inc.
Mercury Digestion Log/Analytical Run Log

Page #: 15
Book #: 1860
Filename: GHG 218 (cont.)

Instrument: Leeman Labs PS200 (HG3)
Wavelength: 253.7 nm
Optical Cell Length: 20.5 cm
Standard/Matrix Spike Source ID#: 756
ICV/CCV/LCS Source ID#: 698
Water Bath Temperature: Initial 95 C Final 95 C Equip.ID #: 1019
Control Limits: 90 C to 95 C
Thermometer ID: Hg Correction Factor: 0.4 C
HNO3 Lot #: 2704KMGD
HCL Lot #: A15043
H2SO4 Lot #: 2876KMAC

AS Pos.#	RFW # / QC ID	Sample Size (mls or g per 100 ml final vol)	% Solids	Analytical Dilution	Comments
11	9504G211-001R	100 ml			
12	-001S (1ppb)	"			
13	-003	"			
14	-005	"			
15	-007	"			
16	-009	"			
17	9504G227-011	"			
18	-011R	"			
19	-011S (1ppb)	"			

SD 4/14/95

	No.	Batch		
QC 2	CCV 2 (LCS)	218 (1ppb)	100 mls	
QC 1	CCB 2 (MB)		100 mls	

SD 4/14/95

	No.	Batch		
QC 2	CCV ____ (LCS)	____	100 mls	
QC 1	CCB ____ (MB)	____	100 mls	

Preparation Signature: Cheryl L Boyd Date: 4/12/95 Time In: 1:30pm Time Out: 3:30pm
Analyst Signature: Cheryl L Boyd Date Analyzed: 4/12/95 C Date LIMS'd: _____
Reviewer Signature: Paul F. Kolarczyk Date: 4/15/95

GHG 210

CONCENTRATION

17:18:30 12 Apr 1995 Folder: 041295C Protocol: MERCURY VAPOR AUTOANALYZER Page 1

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 0 17:18:30 12 Apr 1995 HG

Hg .0000 ppb 114
Ave. Int. = 114 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 1 17:20:55 12 Apr 1995 HG

Hg .2000 ppb 4290
Ave. Int. = 4290 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 2 17:23:19 12 Apr 1995 HG

Hg .5000 ppb 10472
Ave. Int. = 10472 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 3 17:25:44 12 Apr 1995 HG

Hg 1.000 ppb 21176
Ave. Int. = 21176 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 4 17:28:11 12 Apr 1995 HG

Hg 3.000 ppb 61509
Ave. Int. = 61509 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 5 17:30:46 12 Apr 1995 HG

Hg 5.000 ppb 100352
Ave. Int. = 100352 S. D. = 0

Cheryl L Boyd 4/13/95

Paul F. Holovczyk 4/15/95

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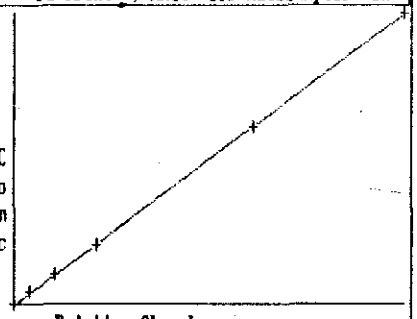
```
Protocol: MERCURY  VAPOR AUTOANALYZER
                   Rev: 2.005   Time: 17:30:59  12 Apr 1995
Folder: 041295C    Seq: 6                      Print: On
User: BOYD         Batch:          Id: Std6Repl   Cup: 1 13 Gas:   0.25 LPM
State: Idle        Macro CLP3    79  : F3 Print   Xmit: Off Autosampler: On
CALIBRATION: Line Calibration
Line: Hg                          Accepted
    Conc.   Calc.    Dev.   LiNear
S1  .0000  -.0206  -.0206   Quadratic
S2  .2000   .1874  -.0126   WtdLinear
S3  .5000   .4953  -.0047           C
S4  1.000   1.020   .0205   Accept   o
S5  3.000   3.037   .0374            n
S6  5.000   4.972  -.0279   StdAdd   c
A   .0000000     r    .999988
B   4.98091e-5   C   -2.63111e-2
      Mean    %RSD
S1     114       0        114
S2    4290       0       4290
S3   10472       0      10472
S4   21176       0      21176
S5   61589       0      61589
S6  180352       0     180352
```




```
New cal coefficients stored
```

511

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 2 Ck2 Seq: 6 17:33:31 12 Apr 1995 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 99.46 1.989 2.000 ppb .0000 99.5%.

*** Check Standard: 1 Ck1 Seq: 7 17:36:05 12 Apr 1995 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg -.0406 .2000 ppb .0000

*** Sample ID: 01 Seq: 8 17:38:25 12 Apr 1995 HG
CRA
Hg .1659 ppb .0000 .1659 83.0%

*** Sample ID: 02 Seq: 9 17:40:44 12 Apr 1995 HG
MB1
Hg -.0242 L ppb .0000 -.0242

*** Sample ID: 03 Seq: 10 17:43:03 12 Apr 1995 HG
9504G211-002
Hg -.0249 L ppb .0000 -.0249

*** Sample ID: 04 Seq: 11 17:45:22 12 Apr 1995 HG
9504G211-002R
Hg -.0134 L ppb .0000 -.0134 NC

*** Sample ID: 05 Seq: 12 17:47:41 12 Apr 1995 HG
9504G211-002S
Hg 1.164 ppb .0000 1.164 116.4%

*** Sample ID: 06 Seq: 13 17:50:06 12 Apr 1995 HG
9504G211-004
Hg -.0220 L ppb .0000 -.0220

*** Sample ID: 07 Seq: 14 17:52:26 12 Apr 1995 HG
9504G211-006
Hg -.0261 L ppb .0000 -.0261

*** Sample ID: 08 Seq: 15 17:54:46 12 Apr 1995 HG
9504G211-008
Hg -.0187 L ppb .0000 -.0187

*** Sample ID: 09 Seq: 16 17:57:06 12 Apr 1995 HG
9504G211-010
Hg -.0178 L ppb .0000 -.0178

*** Sample ID: 10 Seq: 17 17:59:26 12 Apr 1995 HG
9504G211-001
Hg .0228 ppb .0000 .0228

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Line Conc. Units SD/RSD 1 2 3 4 5

CW1 CC2 *** Check Standard: 3 Ck3 Seq: 18 18:01:47 12 Apr 1995 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 103.2 1.032 1.000 ppb .0000 103.2%

CB1 *** Check Standard: 1 Ck1 Seq: 19 18:04:13 12 Apr 1995 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg -.0365 .2000 ppb .0000

*** Sample ID: 11 Seq: 20 18:06:33 12 Apr 1995 HG
9504G211-001R
Hg -.0237 L ppb .0000 -.0237 NC

*** Sample ID: 12 Seq: 21 18:08:52 12 Apr 1995 HG
9504G211-001S
Hg .9714 ppb .0000 .9714 97.1%

*** Sample ID: 13 Seq: 22 18:11:14 12 Apr 1995 HG
9504G211-003
Hg .1058 ppb .0000 .1058

*** Sample ID: 14 Seq: 23 18:13:31 12 Apr 1995 HG
9504G211-005
Hg -.0179 L ppb .0000 -.0179

*** Sample ID: 15 Seq: 24 18:15:49 12 Apr 1995 HG
9504G211-007
Hg -.0180 L ppb .0000 -.0180

*** Sample ID: 16 Seq: 25 18:18:07 12 Apr 1995 HG
9504G211-009
Hg -.0021 L ppb .0000 -.0021

*** Sample ID: 17 Seq: 26 18:20:25 12 Apr 1995 HG
9504G227-011
Hg -.0044 L ppb .0000 -.0044

*** Sample ID: 18 Seq: 27 18:22:43 12 Apr 1995 HG
9504G227-011R
Hg -.0093 L ppb .0000 -.0093 NC

*** Sample ID: 19 Seq: 28 18:25:01 12 Apr 1995 HG
9504G227-011S
Hg .9478 ppb .0000 .9478 94.8%

CW2 *** Check Standard: 3 Ck3 Seq: 29 18:27:31 12 Apr 1995 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 100.7 1.007 1.000 ppb .0000 100.7%

513

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 1 Ck1 Seq: 30 18:29:55 12 Apr 1995 HG

CB2

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0384	.2000	ppb	.0000

*** Check Standard: 3 Ck3 Seq: 31 18:32:16 12 Apr 1995 HG

4/13/95

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.8	1.038	1.000	ppb	.0000

*** Check Standard: 1 Ck1 Seq: 32 18:34:43 12 Apr 1995 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0397	.2000	ppb	.0000

HG 218

INTENSITY

08:14:40 13 Apr 1995 Folder: 041295C Page 1
Protocol: MERCURY VAPOR AUTOANALYZER

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 0 17:18:30 12 Apr 1995 HG

Hg .0000 ppb 114
Ave. Int. = 114 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 1 17:20:55 12 Apr 1995 HG

Hg .2000 ppb 4290
Ave. Int. = 4290 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 2 17:23:19 12 Apr 1995 HG

Hg .5000 ppb 10472
Ave. Int. = 10472 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 3 17:25:44 12 Apr 1995 HG

Hg 1.000 ppb 21176
Ave. Int. = 21176 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 4 17:28:11 12 Apr 1995 HG

Hg 3.000 ppb 61509
Ave. Int. = 61509 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 5 17:30:46 12 Apr 1995 HG

Hg 5.000 ppb 100352
Ave. Int. = 100352 S. D. = 0

*** Check Standard: 2 Ck2 Seq: 6 17:33:31 12 Apr 1995 HG
Line Flag Intensities
Hg 40466

*** Check Standard: 1 Ck1 Seq: 7 17:36:05 12 Apr 1995 HG
Line Flag Intensities
Hg -287

*** Sample ID: 01 Seq: 8 17:38:25 12 Apr 1995 HG
CRA
Hg .1659 ppb 3858

*** Sample ID: 02 Seq: 9 17:40:44 12 Apr 1995 HG
MB1
Hg -.0242 L ppb 43

Cheryl L Boyd 4/13/95

Paul F. Kolaczyk 4/15/95

514

515

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: 03				Seq: 10		17:43:03 12 Apr 1995 HG		
				9504G211-002				
Hg	-.0249 L	ppb		29				
*** Sample ID: 04				Seq: 11		17:45:22 12 Apr 1995 HG		
				9504G211-002R				
Hg	-.0134 L	ppb		260				
*** Sample ID: 05				Seq: 12		17:47:41 12 Apr 1995 HG		
				9504G211-002S				
Hg	1.164	ppb		23893				
*** Sample ID: 06				Seq: 13		17:50:06 12 Apr 1995 HG		
				9504G211-004				
Hg	-.0220 L	ppb		86				
*** Sample ID: 07				Seq: 14		17:52:26 12 Apr 1995 HG		
				9504G211-006				
Hg	-.0261 L	ppb		4				
*** Sample ID: 08				Seq: 15		17:54:46 12 Apr 1995 HG		
				9504G211-008				
Hg	-.0187 L	ppb		153				
*** Sample ID: 09				Seq: 16		17:57:06 12 Apr 1995 HG		
				9504G211-010				
Hg	-.0178 L	ppb		170				
*** Sample ID: 10				Seq: 17		17:59:26 12 Apr 1995 HG		
				9504G211-001				
Hg	.0228	ppb		986				
*** Check Standard: 3 Ck3				Seq: 18		18:01:47 12 Apr 1995 HG		
Line Flag Intensities								
Hg			21253					
*** Check Standard: 1 Ck1				Seq: 19		18:04:13 12 Apr 1995 HG		
Line Flag Intensities								
Hg			-204					
*** Sample ID: 11				Seq: 20		18:06:33 12 Apr 1995 HG		
				9504G211-001R				
Hg	-.0237 L	ppb		53				
*** Sample ID: 12				Seq: 21		18:08:52 12 Apr 1995 HG		
				9504G211-001S				
Hg	.9714	ppb		20030				

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: 13				Seq: 22		18:11:14 12 Apr 1995 HG		
				9504G211-003				
Hg	.1058	ppb		2653				
*** Sample ID: 14				Seq: 23		18:13:31 12 Apr 1995 HG		
				9504G211-005				
Hg	-.0179	L ppb		168				
*** Sample ID: 15				Seq: 24		18:15:49 12 Apr 1995 HG		
				9504G211-007				
Hg	-.0180	L ppb		166				
*** Sample ID: 16				Seq: 25		18:18:07 12 Apr 1995 HG		
				9504G211-009				
Hg	-.0021	L ppb		487				
*** Sample ID: 17				Seq: 26		18:20:25 12 Apr 1995 HG		
				9504G227-011				
Hg	-.0044	L ppb		440				
*** Sample ID: 18				Seq: 27		18:22:43 12 Apr 1995 HG		
				9504G227-011R				
Hg	-.0093	L ppb		341				
*** Sample ID: 19				Seq: 28		18:25:01 12 Apr 1995 HG		
				9504G227-011S				
Hg	.9478	ppb		19556				
*** Check Standard: 3 Ck3				Seq: 29		18:27:31 12 Apr 1995 HG		
Line Flag Intensities								
Hg				20747				
*** Check Standard: 1 Ck1				Seq: 30		18:29:55 12 Apr 1995 HG		
Line Flag Intensities								
Hg				-242				

Mercury Report

IDL=0.2ug/L

run 2

517

Date of Prep: 04/12/95
Date of Analysis: 04/12/95
Worksheet: GHG217 Run Batch: 95HG217
Test: MHGTO Method: 245.5
Directory: INORGANICS Analyst: CLB
Instrument: HG3

RFW SAMPLE ID	TEST	INSTRUMENT READOUT ug/L	ug/100mL	DILUTION FACTOR	C/D	FINAL RESULT	CRDL EPA 0.200	UNITS	REPLICATE ORIG SAMPLE RESULT	REP % DIFF	SPIKE TCLP 200 TOTAL 1.00	SAMPLE SPIKE AMOUNT	% RECOV	LCS AMT LCS 2.00	% RECOV	PREP BATCH	SOILS PREP INITIAL SAMPLE WT.	FINAL VOL.	% SOLIDS
95HG217-ICV1	MHGLCS	2.0060	0.20060	1	1.0000	2.0060	0.2000	UG/L						2.0	100.3	95HG217			
95HG217-ICB1	MHGTO	-0.0100	-0.00100	1	1.0000	-0.0100 u	0.2000	UG/L								95HG217			
95HG217-CRA1	MHGLCS	0.2010	0.02010	1	1.0000	0.2010	0.2000	UG/L						0.2	100.5	95HG217			
95HG217-MB1	MHGTO	0.0130	0.00130	1	0.5000	0.0065 u	0.1000	MG/KG								95HG217	0.20	100.00	100.0
95HG217-LCS	MHGLCS	1.9720	0.19720	1	0.5000	0.9860	0.1000	MG/KG						1.0	98.6	95HG217	0.20	100.00	100.0
95046211-011	MHGTO	0.1035	0.01035	1	0.4105	0.0425 u	0.0821	MG/KG								95HG217	0.28	100.00	87.0
95046211-012	MHGTO	0.0365	0.00365	1	0.3996	0.0146 u	0.0799	MG/KG								95HG217	0.29	100.00	86.3
95046211-013	MHGTO	0.0480	0.00480	1	0.5171	0.0248 u	0.1034	MG/KG								95HG217	0.22	100.00	87.9
95046211-014	MHGTO	0.0425	0.00425	1	0.4545	0.0193 u	0.0909	MG/KG								95HG217	0.25	100.00	88.0
95046211-015	MHGTO	0.0168	0.00168	1	0.4331	0.0073 u	0.0866	MG/KG								95HG217	0.24	100.00	96.2
95046211-015R	MHGTOR	0.0391	0.00391	1	0.4725	0.0185 u	0.0945	MG/KG	0.000	200.0						95HG217	0.22	100.00	96.2
95046211-015S	MHGTOS	1.0180	0.10180	1	0.4158	0.4233	0.0832	MG/KG	0.000		1	0.416	101.8			95HG217	0.25	100.00	96.2
95HG217-CV1	MHGLCS	1.0130	0.10130	1	1.0000	1.0130	0.2000	UG/L						1.0	101.3	95HG217			
95HG217-CB1	MHGTO	-0.0072	-0.00072	1	1.0000	-0.0072 u	0.2000	UG/L								95HG217			
95HG217-CV2	MHGLCS	1.0160	0.10160	1	1.0000	1.0160	0.2000	UG/L						1.0	101.6	95HG217			
95HG217-CB2	MHGTO	-0.0026	-0.00026	1	1.0000	-0.0026 u	0.2000	UG/L								95HG217			

Cheryl L Boyd 4/24/95

Lada L Davic 4/25/95

OP No. 21-21G-1502; Rev. 00; Eff. Date 01/24/95

12

Circle Method:
a. H2O - EPA 245.1 / SW846 7470
b. Soil/Solid (EPA 245.5) / SW846 7471
c. Other -

WESTON Environmental Metrics, Inc.
Mercury Digestion Log/Analytical Run Log

Page #:
Book #: 1860
Filename: GHG217

Instrument: Leeman Labs PS200 (HG3)
Wavelength: 253.7 nm
Optical Cell Length: 20.5 cm
Standard/Matrix Spike Source ID#: 756
ICV/CCV/LCS Source ID#: 698
Water Bath Temperature: Initial 95 C Final 95 C Equip.ID #: 1019
Control Limits: 90 C to 95 C
Thermometer ID: Hg
Correction Factor: 0.4 C
HNO3 Lot #: 2704FHGD
HCL Lot #: H1SO43
H2SO4 Lot #: 2876FHAC

AS Pos.#	RFW # / QC ID	Sample Size (mls or g per 100 ml final vol)	% Solids	Analytical Dilution	Comments
Std 1	0.0ppb Std	100ml			
" 2	0.2 "	"		cc=	0.9998
" 3	0.5 "	"		m=	25851.6
" 4	1.0 "	"		b=	-154.3
" 5	3.0 "	"		x'=	0.006
" 6	5.0 "	"			
					SB 4/13/95

~17

	No.	Batch			
QC 2	~~CCV~~ 1W	~~(LCS)~~ 217 (2ppb)	100 mls		
QC 1	~~CCB~~ 1LB	~~(MB)~~	100 mls		
1	CRA (0.2ppb)		"		
2	MB1		0.20g	100.0	
3	SOLID LCS (2ppb)		0.20	100.0	
4	9504G211-011		0.28	87.0	
5	-012		0.29	86.3	
6	-013		0.22	87.7	
7	-014		0.25	88.0	
8	-015		0.24	96.2	
9	-015R		0.22	96.2	
10	-015S (1ppb)		0.25	96.2	

	No.	Batch		
QC 2	CCV 1	~~(LCS)~~ 217 (1ppb)	100 mls	
QC 1	CCB 1	~~(MB)~~	100 mls	

SB 4/13/95

Preparation Signature: Cheryl L Boyd Date: 4/12/95 Time In: 1:30pm Time Out: 2:00pm
Analyst Signature: Cheryl L Boyd Date Analyzed: 4/12/95 B Date LIMS'd:
Reviewer Signature: [illegible] Date: 4-25-95

OP No. 21-21G-1502; Rev. 00; Eff. Date 01/24/95

13

Circle Method:
a. H2O - EPA 245.1 / SW846 7470
b. Soil/Solid - EPA 245.5 / SW846 7471
c. Other - _____

WESTON Environmental Metrics, Inc.
Mercury Digestion Log/Analytical Run Log

Page #: _____
Book #: 1860
Filename: GHG217 (cont.)

Instrument: Leeman Labs PS200 (HG3) Wavelength: 253.7 nm Optical Cell Length: 20.5 cm
Standard/Matrix Spike Source ID#: 756 ICV/CCV/LCS Source ID#: 698
Water Bath Temperature: Initial 95 C Final 95 C Equip.ID #: 1019 Control Limits: 90 C to 95 C
Thermometer ID: Hg Correction Factor: 0.4 C HNO3 Lot #: 2704KMGP HCL Lot #: H15043
H2SO4 Lot #: 2876KMAC

AS Pos.#	RFW # / QC ID	Sample Size (mls or g per 100 ml final vol)	% Solids	Analytical Dilution	Comments
11	9504G227-004	0.21g	86.9		CAR-redigest
12	-004R	0.20	86.9		62.3%
13	-004S (1ppb)	0.23	86.9		-80.2%

GB 4/19/95

GB 4/20/95

No. 217 Batch (1ppb)
QC 2 CCV 2 (LCS) ~~(2ppb)~~ 4/13/95 100 mls
QC 1 CCB 2 (MB) _____ 100 mls

GB 4/21/95

No. Batch
QC 2 CCV _____ (LCS) _____ 100 mls
QC 1 CCB _____ (MB) _____ 100 mls

Preparation Signature: Cheryl L Boyd Date: 4/12/95 Time In: 1:30pm Time Out: 2:00pm
Analyst Signature: Cheryl L Boyd Date Analyzed: 4/12/95B Date LIMS'd: _____
Reviewer Signature: Kada Bonnie Date: 4-25-95

CONCENTRATION

16:15:19 12 Apr 1995 Folder: 0412958 Page 1
Protocol: MERCURY VAPOR AUTOANALYZER

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 0 16:15:19 12 Apr 1995 HG

Hg .0000 ppb -42
Ave. Int. = -42 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 1 16:17:44 12 Apr 1995 HG

Hg .2000 ppb 5059
Ave. Int. = 5059 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 2 16:20:08 12 Apr 1995 HG

Hg .5000 ppb 13113
Ave. Int. = 13113 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 3 16:22:33 12 Apr 1995 HG

Hg 1.000 ppb 25868
Ave. Int. = 25868 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 4 16:24:59 12 Apr 1995 HG

Hg 3.000 ppb 75907
Ave. Int. = 75907 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 5 16:27:35 12 Apr 1995 HG

Hg 5.000 ppb 129930
Ave. Int. = 129930 S. D. = 0

Cheryl L Boyd 4/13/95

Rada Davis 4/25/95

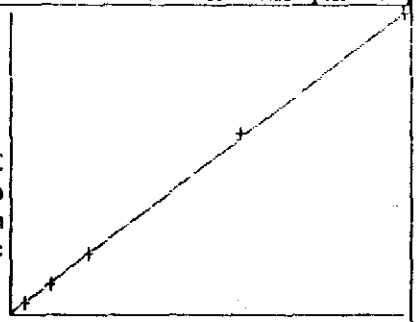
520

Protocol: MERCURY VAPOR AUTOANALYZER
Rev: 2.005 Time: 16:27:48 12 Apr 1995
Folder: 041295B Seq: 6 Print: On
User: DOYD Batch: Id: StdGRep1 Cup: 1 87 Cas: 0.25 LPM
State: Idle Macro CLP3 79 : F3 Print Xmit: Off Autosampler: On

CALIBRATION: Line Calibration

Line: Hg

	Conc.	Calc.	Dev.	Accepted LiNear
S1	.0000	.0047	.0047	Quadratic
S2	.2000	.2020	.0020	MtdLinear
S3	.5000	.5135	.0135	C
S4	1.000	1.007	.0068	Accept o
S5	3.000	2.942	-.0581	n
S6	5.000	5.031	.0312	StdAdd c
A	.0000000	r	.999883	
B	3.06732e-5	C	6.34645e-3	



	Mean	%RSD	
S1	-42	0	-42
S2	5059	0	5059
S3	13113	0	13113
S4	25868	0	25868
S5	75907	0	75907
S6	129930	0	129930

New cal coefficients stored

522

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 2 Ck2 Seq: 6 16:30:14 12 Apr 1995 HG

IW

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.3	2.006	2.000	ppb	.0000

100.3%

*** Check Standard: 1 Ck1 Seq: 7 16:32:49 12 Apr 1995 HG

ICB

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.0100	.2000	ppb	.0000

*** Sample ID: 01 Seq: 8 16:35:09 12 Apr 1995 HG

CRA

CRA

Hg	.2010	ppb	.0000	.2010	

100.5%

*** Sample ID: 02 Seq: 9 16:37:29 12 Apr 1995 HG

MBI

MBI

Hg	.0130	ppb	.0000	.0130	

*** Sample ID: 03 Seq: 10 16:39:48 12 Apr 1995 HG

LCS

SOLID LCS (2.0ppb)

Hg	1.972	ppb	.0000	1.972	

98.6%

*** Sample ID: 04 Seq: 11 16:42:20 12 Apr 1995 HG

9504G211-011

Hg	.1035	ppb	.0000	.1035	

*** Sample ID: 05 Seq: 12 16:44:39 12 Apr 1995 HG

9504G211-012

Hg	.0365	ppb	.0000	.0365	

*** Sample ID: 06 Seq: 13 16:46:58 12 Apr 1995 HG

9504G211-013

Hg	.0480	ppb	.0000	.0480	

*** Sample ID: 07 Seq: 14 16:49:18 12 Apr 1995 HG

9504G211-014

Hg	.0425	ppb	.0000	.0425	

*** Sample ID: 08 Seq: 15 16:51:38 12 Apr 1995 HG

9504G211-015

Hg	.0168	ppb	.0000	.0168	

*** Sample ID: 09 Seq: 16 16:53:58 12 Apr 1995 HG

9504G211-015R

Hg	.0391	ppb	.0000	.0391	

NC

*** Sample ID: 10 Seq: 17 16:56:18 12 Apr 1995 HG

9504G211-015S

Hg	1.018	ppb	.0000	1.018	

101.8%

Line Conc. Units SD/RSD 1 2 3 4 5

*** Check Standard: 3 Ck3 Seq: 18 16:58:45 12 Apr 1995 HG
CV1 Line Flag %Rcv. Found True Units SD/RSD
Hg 101.3 1.013 1.000 ppb .0000 101.3%

*** Check Standard: 1 Ck1 Seq: 19 17:01:11 12 Apr 1995 HG
CB1 Line Flag Found Range(+/-) Units SD/RSD
Hg -.0072 .2000 ppb .0000

*** Sample ID: 11 Seq: 20 17:03:31 12 Apr 1995 ~~HG~~ SB 4/13/95
9504G227-004
Hg 2.589 ppb .0000 2.589

*** Sample ID: 12 Seq: ~~21~~ 17:06:03 12 Apr 1995 HG
9504G227-~~004R~~
Hg 1.295 ppb .0000 1.295 62.3%

CAR redigest

*** Sample ID: 13 Seq: 22 17:08:28 12 Apr 1995 HG
9504G227-004S
Hg 2.034 ppb .0000 2.034 -80.2%

*** Check Standard: 3 Ck3 Seq: 23 17:11:00 12 Apr 1995 HG
CV2 Line Flag %Rcv. Found True Units SD/RSD
Hg 101.6 1.016 1.000 ppb .0000 101.6%

*** Check Standard: 1 Ck1 Seq: 24 17:13:26 12 Apr 1995 HG
CB2 Line Flag Found Range(+/-) Units SD/RSD
Hg -.0026 .2000 ppb .0000

HG 211

INTENSITY

Folder: 041295R Page 1
17:13:52 12 Apr 1995 Protocol: MERCURY VAPOR AUTOANALYZER

524

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Standard: 1 Rep: 1 Seq: 0 16:15:19 12 Apr 1995 HG

Hg .0000 ppb -42
Ave. Int. = -42 S. D. = 0

*** Standard: 2 Rep: 1 Seq: 1 16:17:44 12 Apr 1995 HG

Hg .2000 ppb 5059
Ave. Int. = 5059 S. D. = 0

*** Standard: 3 Rep: 1 Seq: 2 16:20:08 12 Apr 1995 HG

Hg .5000 ppb 13113
Ave. Int. = 13113 S. D. = 0

*** Standard: 4 Rep: 1 Seq: 3 16:22:33 12 Apr 1995 HG

Hg 1.000 ppb 25868
Ave. Int. = 25868 S. D. = 0

*** Standard: 5 Rep: 1 Seq: 4 16:24:59 12 Apr 1995 HG

Hg 3.000 ppb 75907
Ave. Int. = 75907 S. D. = 0

*** Standard: 6 Rep: 1 Seq: 5 16:27:35 12 Apr 1995 HG

Hg 5.000 ppb 129930
Ave. Int. = 129930 S. D. = 0

*** Check Standard: 2 CK2 Seq: 6 16:30:14 12 Apr 1995 HG
Line Flag Intensities
Hg 51709

*** Check Standard: 1 CK1 Seq: 7 16:32:49 12 Apr 1995 HG
Line Flag Intensities
Hg -423

*** Sample ID: 01 Seq: 8 16:35:09 12 Apr 1995 HG
CRA
Hg .2010 ppb 5032

*** Sample ID: 02 Seq: 9 16:37:29 12 Apr 1995 HG
MB1
Hg .0130 ppb 171

Cheryl L Boyd 4/13/95

Rada Davic 4/25/95

525

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 03 Seq: 10 16:39:48 12 Apr 1995 HG
SOLID LCS (2.0ppb)
Hg 1.972 ppb 50826

*** Sample ID: 04 Seq: 11 16:42:20 12 Apr 1995 HG
9504G211-011
Hg .1035 ppb 2513

*** Sample ID: 05 Seq: 12 16:44:39 12 Apr 1995 HG
9504G211-012
Hg .0365 ppb 779

*** Sample ID: 06 Seq: 13 16:46:58 12 Apr 1995 HG
9504G211-013
Hg .0480 ppb 1077

*** Sample ID: 07 Seq: 14 16:49:18 12 Apr 1995 HG
9504G211-014
Hg .0425 ppb 936

*** Sample ID: 08 Seq: 15 16:51:38 12 Apr 1995 HG
9504G211-015
Hg .0168 ppb 271

*** Sample ID: 09 Seq: 16 16:53:58 12 Apr 1995 HG
9504G211-015R
Hg .0391 ppb 846

*** Sample ID: 10 Seq: 17 16:56:18 12 Apr 1995 HG
9504G211-015S
Hg 1.018 ppb 26170

*** Check Standard: 3 Ck3 Seq: 18 16:58:45 12 Apr 1995 HG
Line Flag Intensities
Hg 26027

*** Check Standard: 1 Ck1 Seq: 19 17:01:11 12 Apr 1995 HG
Line Flag Intensities
Hg -351

*** Sample ID: 11 Seq: 20 17:03:31 12 Apr 1995 HG 4/13/95
9504G227-004
Hg 2.589 ppb 66706

*** Sample ID: 12 Seq: 21 17:06:03 12 Apr 1995 HG
9504G227-004R
Hg 1.295 ppb 33316

Folder: 041295B Page 3
17:13:55 12 Apr 1995 Protocol: MERCURY VAPOR AUTOANALYZER

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: 13 Seq: 22 ~~17:08:28 12 Apr 1995 HG~~ SB 4/13/95
~~9504G227-004S~~
~~Hg 2.034 ppb~~ 52422

*** Check Standard: 3 Ck3 Seq: 23 17:11:00 12 Apr 1995 HG
Line Flag Intensities
Hg 26114

*** Check Standard: 1 Ck1 Seq: 24 17:13:26 12 Apr 1995 HG
Line Flag Intensities
Hg -232

DIGESTION INFORMATION

Weston Environmental Metrics, Inc.

Metals Digestion Standard Spike Concentrations
Revision: 12/16/94

ICAP Spiking Intermediate:

Elements	**Concentration**
Ca, Mg, K, Na,	1000 ug/ml
Al, Ba, As, Se, Tl	200 ug/ml
Fe, B, Sr, Mo, Si, Sn, Ti	100 ug/ml
Co, Pb, Mn, Ni, V, Zn, Sb, Li	50 ug/ml
Cr	20 ug/ml
Cu	25 ug/ml
Be, Cd, Ag	5 ug/ml

Single Element Spikes

Ba (TCLP)	10000 ug/ml
Cs	1000 ug/ml
Si	1000 ug/ml

GFAA: Predigestion Solution

Elements	**Concentration**
As	4 ug/ml
Pb	2 ug/ml
Se	1 ug/ml
Tl	5 ug/ml
Cd	0.5 ug/ml

TCLP (MS)

Elements	**Concentration**
As, Cr, Pb	500 ug/ml
Cd, Se, Ag	100 ug/ml
Hg	20 ug/ml

Weston-Gulf Coast Laboratories, Inc. Page: 5
Metals Department
1375 Standard/Receipt/Verification Log

Standard Name	Mfg.	Lot #	Source ID#	Date Received	Date Expired	Date Verified	Verified/ Filename	Certificate Received
Co 1003 ug/ml	Inorg Vent.	I-CO01042	632	12-16-93	1-1-95	01/03/95	REM P10227A	YES
Fe 1009 ug/ml		I-FE01115	633					
K 1002 ug/ml		I-K01094	634					
Li 999 ug/ml		I-LI0135	635			12/27/93		
Mg 1011 ug/ml		I-MG01081	636			12/27/93	REM P10227A	
Mn 1004 ug/ml		I-MN01042	637					
Mo 1004 ug/ml		I-MO01049	638					
Ag 992 ug/ml		I-AG01057	639					
Na 995 ug/ml		I-NA01059	640					
Ni 1001 ug/ml		I-NI01063	641					
Pb 1009 ug/ml		I-PB01068	642					
Se 1004 ug/ml		I-SE01030	643					
Si 1000 ug/ml		I-SI01059	644					
Sr 1002 ug/ml		I-SR01073	645					
Tl 1003 ug/ml		I-TL01035	646					
Ti 1000 ug/ml		I-TI01040	647					
Sn 999 ug/ml		I-SN0132	648					
V 1003 ug/ml		I-V01064	649					
Zn 999 ug/ml		I-ZN01063	650					
WAC-SPEX-2A	Inorg Vent.	I-MCB27003	651	12-20-93	1-1-95	12/27/93	REM P10227A	YES
WAC-SPEX-2A		I-MCB13068	652					
WAC-SPEX-2C		I-MCB27069	653			12/27/93	REM P10227A	
WAC-SPEX-2C		I-MCB27069	654					
Be 993 ug/ml	Inorg Vent	I-BE01076	655	1-10-94	1-1-95	03/23/94	REM P10323D	YES
XWAC-9	SPEX	I-203MM	656	1-24-94	1-95	1/31/94	REM P20131A	
XWAC-9		I-203MM	657					
XWAC-11		I-203MM	658					
XWAC-11		I-203MM	659					
Hg 1000 ug/ml	SPEX	I-HG	660	3-4-94	3-15-95	4/14/94	REM P20406A	
Cs 1000 ug/ml	SPEX	I-CSCS	661	3-4-94	3-15-95	3/23/94	REM CS0331.2	YES
Cs 993 ug/ml	Inorg Vent	I-CS01069	662	3/1/94	3-1-95	3/23/94	REM P10323D	YES
Sc 999 ug/ml	Inorg. Vent	I-SC01035	663	3/17/94	4-1-95	3/23/94	REM P10323D	YES
Sc 999 ug/ml		I-SC01035	664	3/17/94	4-1-95	3/23/94	REM P10323D	

Reviewer Signature: Jodi L. Wojcik Date: 4/7/94

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Weston-Gulf Coast Laboratories, Inc. Page: 6
Metals Department
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Standard Name	Mfg.	Lot #	Source ID#	Date Received	Date Expired	Date Verified	Verified/ Filename	Certificate Received
V 959 ug/ml	Inorg Vent	I-V01034	665	3-17-94	4-1-95	03/23/94	REM P10323D	YES
V Exp 1008 ug/ml		I-V01035	666	3-17-94	4-1-95	03/23/94	REM P10323D	
Al 999 ug/ml	Inorg Vent.	I-AL01078	667	4-4-94	4-1-95	4/14/94	REM P20406A	YES
Si 1000 ug/ml		I-SI01076	668	4-4-94	4-1-95			
Al 10,000 ug/ml	SPEX	F-24ICAL	669	4-7-94	4-15-95			
QCS-ICP 1		I-1 ICP-1	670					
QCS-ICP #2		I-1 ICP-2	671					
XWAC-10A	SPEX	I-223MM	672	4-22-94	5-31-95	5/20/94	REM P20520C	YES
XWAC-10A		I-223MM	673	4-22-94	5-31-95			
WAC-SPEX-C	Inorg Vent	I-MCB32053	674	5-20-94	6-1-95			YES
Ba 998 ug/ml		I-BA01057	675	5-20-94	6-1-95			
CalQ-60	Inorg Vent	I-MCB32106	676	6-3-94	6-1-95	0		YES
Ca 1004 ug/ml	Inorg Vent	I-CA0109	677	6-24-94	7-1-95	06-30-94	REM P20630B	YES
Fe 1004 ug/ml		I-FE02013	678					
K 997 ug/ml		I-K02009	679					
WAC CRI-1	Inorg vent.	I-MCB32054	680	6-29-94	7-1-95			YES
WAC CRI-2		I-MCB33035	681					
Al 1003 ug/ml	Inorg Vent	I-AL02060	682	7-7-94	8-1-95	07-08-94	REM P20708C	YES
			683					
PREP-ICS-A	Inorg Vent	I-MCB32054	684					
			685					
EE-ICQ-WAC1	Ultra Pure	450322	686	8-25-94	9-1-95	9/15/94	REM P20915A	YES
EE-ICQ-WAC2			687					
" " TL 200 ug/ml			688					
EE-ICQ-WAC3			689					
" " Ag 200 ug/ml			690					
EE-ICQ-WAC2	HIGH-PURITY	450826	691	8-31-94	9-1-95	9/15/94	REM P20915C	YES
" " TISI			692					
HP1023-C-500	HIGH-PURITY	490402	693	9-6-94	10-1-95	9/16/94	REM P20916C	YES
WAC-CAL-1C	Inorg Vent	I-MCB32055	694	9-14-94	10-1-95	9/22/94	REM P20922B	YES
WAC-CAL-1D		I-MCB32056	695					
Sc 1001 ug/ml		I-SC01069	696					
Si 1000 ug/ml	HIGH-PURITY	490359	697	9/28/94	10-1-95			YES

Reviewer Signature: Jodi L. Wojcik

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Weston-Gulf Coast Laboratories, Inc.
Metals Department
Standard/Receipt/Verification Log

Standard Name	Mfg.	Lot #	Source ID#	Date Received	Date Expired	Date Verified	Verified/ Filename	Certificate Received
Hg 1000 ug/mL	INORGANIC VENTURES	J-HG01070	698	9/26/94	10/1/95	9/29/94	GHG548	Yes
Sb 1000 ug/mL	SPEX	4-73SB	699	9/30/94	8/31/95	9/30/94	DOH20	YES
XWGC-13	SPEX	2-243MM	700	9/30/94	9/95			
XWGC-13	SPEX	2-243MM	701	9/30/94	9/95			
Sb 998 mg/mL	JT	J-SB01116	702	9/30/94	10/1/95			
Tl 1000 mg/mL	HIGH PURITY	490516	703	9/30/94	10/95			
Tl 1000 mg/mL	HIGH PURITY	490516	704	9/30/94	10/95			
Si 1000 mg/mL	HIGH PURITY	490906	705	9/30/94	10/95			
CLPP-ICS-B	IV	J-MEB28062	706	9/30/94	10/1/95			
WGC-FOR-1	IV	J-MEB57QD	707	10/7/94	11/1/95	10/11/94	DH P2107A	YES
HP1042-A-500	HIGH PURITY	490730	708	10/7/94	11/1/95			YES
* WGC-SPK-2A	IV	J-MEB38150	709	12/19/94	1/1/96	12/19/94	DH P2129C	YES
WGC-SPK-2C		J-MEB38131	710		1/1/96			YES
CLPP-ICS-B		J-MEB28062	711	11/94	11/1/95			YES
Y 1000 PPM		J-Y01041	712	11/19/94	11/1/96	12-21-94	REM P11221A	YES
Y 1000 PPM		J-Y01041	713		11/1/96			YES
Sc 1000 PPM		J-SC01107	714		11/1/96	12/21/94	DH P2021B	YES
Sc 1000 PPM		J-SC01107	715		11/1/96			YES
Al 1000 PPM		J-AL02112	716	11/94	11/1/96	12-27-94	REM P11227C	YES
Sb 1000 PPM		J-SB01120	717	12/94	1/1/96			YES
As 1000 PPM		J-AS01097	718	12/94	11/96			YES
Ba 1000 PPM		J-BA01090	719	12/94				
Be 1000 PPM	REMEL	J-BE01094	720	12/94				
B 1000 PPM		J-B01071	721	12/94				
Cd 1000 PPM		J-CD01074	722	12/94				
Ca 1000 PPM		J-CA02093	723	12/94				
Cr 1000 PPM		J-CR02003	724	12/94				
Co 1000 PPM		J-CO01066	725	12/94				
Cu 1000 PPM		J-CU02002	726	12/94				
Fe 1000 PPM		J-FE02018	727	12/94				
Pb 1000 PPM		J-PB02095	728	12/94				
Li 1000 PPM		J-LI01078	729	12/94		12/29/94	DH P2129C	
Mg 1000 PPM		J-MG02091	730	12/94		12-29-94	REM P11229C	

Reviewer Signature: Jodi L. Hopkins **Date:** 1/6/95

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* Na missing + K-2X

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Weston-Gulf Coast Laboratories, Inc.
Metals Department
Standard/Receipt/Verification Log

Standard Name	Mfg.	Lot #	Source ID#	Date Received	Date Expired	Date Verified	Verified/ Filename	Certificate Received
Na 1000 PPM	IV	J-NA01112	731	12/19/94	1/1/96	12-27-94	REM P11227C	YES
Mo 1000 PPM		J-MO01085	732 REM					
Ni 1000 PPM		J-NI01082	733					
K 1000 PPM		J-K02008	734					
Se 1000 PPM		J-SE01062	735					
Si 1000 PPM		I-SI01078R	736					
Ag 1000 PPM		J-AG01088	737					
Na 1000 PPM		J-NA02001	738					
Sr 1000 PPM		J-SR01091	739					
Tl 1000 PPM		J-TL01048	740					
Sn 1000 PPM		I-SN01048	741					
Ti 1000 PPM		J-TI01102	742					
V 1000 PPM		J-V01096	743					
Zn 1000 PPM		J-ZN01080	744					
CLPP-ICS-A	IV	J-MEB25066	745	12/27/94	1/1/96	12/27/94	DH P2122C	YES
CLP-ICS-A			746					
Si 1000 PPM	IV	J-SI01107	747	1/4/95	1/1/96	1/6/95	REM P10106E	YES
Na 10000 PPM		J-NA01106	748			1/6/95	DLL P01098A	
WGC-SPIKE-C	IV	K-MEB39H1	749	1/25/95	2/1/96	1/27/95	DH P2127B	YES
Ba 10000		J-BA01088	750					
Cs 1000 ug/mL	SPEX	4-83CS	751	1/31/95	1/31/96	3/9/95	BH CS03901	YES
Cs 1001 ug/mL	IV	J-CS01028R	752	2/1/95	2/1/96	3/9/95	BH CS03901	YES
ICQ100-7 (ICP7)	HIGH PURITY	491121	753	2/7/95	3/1/96	2/19/95	DH P2019B	YES
ICQ100-A (ICPA)		491202	754		3/1/96	2/19/95	DH P2019B	YES
WGC-SPK-2A	IV	K-MEB40DC	755	2/10/95	3/1/96	2/19/95	DH P2019C	YES
Al 10000 PPM	IV	J-AL02111	756	2/23/95	3/1/96	3/1/95	DH P2019B	YES
Cs 10000 PPM	IV	J-CS01028R				3/9/95	BH CS03901	YES
						3/9/95	BH CS03901	YES
Hg 1000 ug/mL	HIGH-PURITY	590130	756	3/13/95	4/1/96	3/13/95	DH GHG154	YES
Al 10002 PPM	IV	J-AL02111	757	2/23/95	3/1/96	3/1/95	DH P2019B	YES

Reviewer Signature: _____ **Date:** _____

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Metals Department
Intermediate Standard/Spiking Solution Preparation Log

* 1976

	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	20 STD (ICL)	1/4/95	657, 652, 669, 672 678	1 mL ea #4 5 mLs ea #2	50 mLs	1% HCl, 5% HCl	*	Douglas L Lewis	1/2/95
2.	ICV/CCV (ICL)	12/21/94	694, 695 683 696	10 mLs each 5 mLs 10 mLs each	1000 mLs	1% HNO3, 5% HCl	*	Douglas L Lewis	5/1/95
3.	4100's Int	12/21/94	# 707	5 mLs	500 mLs	2% HNO3	1 ppm all except Cd: 100 ppm	Debbie Kelly	1/21/95
4.	4100's Int	12/21/94	# 708	5 mLs	500 mLs	2% HNO3	1 ppm all except Cd: 100 ppm	Debbie Kelly	1/21/95
5.	GFAA Pre-digestion Spike	12/29/94	#6716 #724, 726, 737	1.0 mL 200 µL	100 mL	2% HNO3	* Cr, Cu, Mg 200 ppm	Elba Dela	6/01/95
6.	GFAA SD LCS	12/29/94	#6716 #724, 726, 737	1.0 mL 200 µL	100 mL	2% HNO3	* Cr, Cu, Mg 200 ppm	Elba Dela	6/01/95
7.	ICP Spike Soln	1/2/95	H 709 # 710	10 mL 10 mL	100 mL	4% HNO3	* (Na missing)	Elba Dela	1/01/96
8.	ISB (ICL)	1-3-95	685 706, 1616 718, 735	100 mLs (Lot #) 5 mLs (ea)	1,000 mLs	5% HCl, 1% HNO3	*	Tom E Miller	04-01-95

Reviewer Signature: John L Wojcik Date: 1/9/95
* See Table I Form II

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Metals Department
Intermediate Standard/Spiking Solution Preparation Log

* 1976

	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	ISB (ICL)	1/3/95	685 706 718, 735 714	100 mLs 8 mLs 5 mLs	1000 mLs	1% HNO3, 5% HCl	*	Douglas L Lewis	8/1/95
2.	3030 Int Std 1 mL/100 mL	1/1/95	694	0.1 mL	100 mL	HNO3	1 ppm	Linda Tabor	3/1/95
3.	3030 E.T Sb aC 3.5 ppm	1/4/95	702	0.35 mL	100 mL	HNO3	3.5 ppm	Linda Tabor	6/1/95
4.	ICL SPIKE 30 N	1/6/95	# 709 # 710 # 748	100 mLs	1 L	4% HNO3	*	Douglas L Lewis	1/1/96
5.	ICV/CCV (ICL)	01-06-95	694, 695 683 712	10 mL (ea) 50 mLs 10 mLs	1000 mLs	5% HCl, 1% HNO3	*	Tom E Miller	08-01-95
6.	Sb pre-digestion Spike	1/11/95	#702	500 µL	100 mL	2% HNO3	* 5 ppm	Elba Dela	10/01/95
7.	5100 INT.	1/11/95	#707 STANDARD	5.0 MLS	500 MLS	2% HNO3	ALL: 1.0 PPM EXCEPT Cd: 100.0 PPB	Linda Tabor	2/16/95
	5100 INT.	1/16/95	#708 Cr	5.0 MLS	500 MLS	2% HNO3	ALL: 1.0 PPM EXCEPT Cd: 100.0 PPB	Linda Tabor	2/16/95

Reviewer Signature: John L Wojcik Date: 1/11/95
* See Table I Form II

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Metals Department

Intermediate Standard/Spiking Solution Preparation Log

BK# 1276

	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expirat Date
1.	4100 INT.	1/16/95	# 707	5.0 mls	500 mls	5% HNO_3	1 ppm all; except Cd = 100 ppb	B. Hamende	2/16/9
2.	4100 INT.	1/16/95	# 708	5.0 mls	500 mls	5% HNO_3	1 ppm all; except Cd = 100 ppb	B. Hamende	2/16/9
3.	Sb INT.	1/16/95	# 699	100 ul	100 mls	4% HNO_3	1 ppm	B. Hamende	2/16/9
4.	Sb INT.	1/16/95	# 702	100 ul	100 mls	4% HNO_3	1 ppm	B. Hamende	2/16/9
5.	3030 Int Std 1.00 ppm	1/19/95	# 707	10.0 ml	1000 ml's	2.0% HNO_3	1.00 ppm 0.10 ppm Cd	Ronald Fisher	2/19/9
6.	3030 Int QC 2.5 ppm	1/19/95	# 708	2.5 ml	100 ml's	2.0% HNO_3	2.5 ppm 0.25 ppm Cd	Ronald Fisher	2/19/9
7.	3030 Int QC 3.5 ppm	1/19/95	# 708	3.5 ml	100 ml's	2.0% HNO_3	3.5 ppm 0.35 ppm Cd	Ronald Fisher	2/19/9
8.	ICV/CCV (IC2)	1/20/95	694, 695 683 714	10 mls 50 mls 10 mls on Top	1,000 mls	5% HCl 1% HNO_3	*	Douglas L Lucas	8/1/95

Reviewer Signature: Jodi L Wojcik Date: 1-22-95

* See Table I

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Metals Department

Intermediate Standard/Spiking Solution Preparation Log

BK# 1276

	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	ICV/CCV (IC1)	01-27-95	694, 695 683 712	10 mls (ea) 50 mls 10 mls on top	1,000 mls	5% HCl 1% HNO_3	*	Ron E. Mille	08-01-95
2.	20% STD (IC1)	01-31-95	686, 690, 689 691, 703 ▲ 712	2 mls each ↓ (4 mls of 703) ▲ 10 mls on top	1,000 mls	5% HCl 1% HNO_3	*	Ron E. Mille	09-01-95
3.	50% STD (IC1) ~~IC2~~ KFM 1/31/95	01-31-95	686, 690, 689 691, 703 ▲ 712	5 mls each ↓ (10 mls of 703) ▲ 10 mls on top	1,000 mls	5% HCl 1% HNO_3	*	Ron E. Mille	09-01-95
4.	20% STD Si (IC1)	01-31-95	697 712	1 ml 5 mls on top	500 mls	5% HCl 1% HNO_3	*	Ron E. Mille	10-01-95
5.	50% STD Si (IC1)	01-31-95	697 712	2.5 ml 5 mls on top	500 mls	5% HCl 1% HNO_3	*	Ron E. Mille	10-01-95
6.	20% STD (IC2) No Si	1/31/95	686, 689, 690, 691, ~~703~~ 703 714	2 MLS each 4 MLS 10 MLS on top	1 l	5% HCl / 1% HNO_3	*	Douglas L Lucas	9/1/95
7.	50% STD (IC2) No Si	1/31/95	686, 689, 690, 691, ~~703~~ 703 714	5 MLS each 10 MLS 10 MLS on top	1 l	5% HCl + 1% HNO_3	*	Douglas L Lucas	9/1/95
8.	20% STD (IC2) Si only	1/31/95	697 714	1 ML 5 MLS on top	500 mls	5% HCl + 1% HNO_3	*	Douglas L Lucas	10/1/95

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Reviewer Signature: Jodi L Wojcik Date: 2-6-95

* See Table I

Weston-Gulf Coast Laboratories, Inc.
Metals Department
Intermediate Standard/Spiking Solution Preparation Log

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Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1. 50% STD (IC2) Si only	1/31/95	697 714	2.5 mls 5 mls on top	500 mls	5% HCl + 1% HNO3	*	Douglas L Lucas	10/1/95
2. ICV/3.0 (IC1) =80% of CCV	02-03-95	694 695 683 RFM 02-03-95 7612	4 mls 20 mls 5 mls on top	500 mls	5% HCl + 1% HNO3	* =80% of normal ICV/CCV	Ron E. Miller	08-01-95 ~~02-03-95~~ REM 02-03-95
3. CRI (IC1)	02-07-95 06	680 681 712	10 mls (C2) 10 mls on top	1,000 mls	5% HCl 1% HNO3	*	Ron E. Miller	07-01-95
4. ISA (IC1)	02-07-95 06	746 712	100 mls 10 mls on top	1,000 mls	5% HCl 1% HNO3	*	Ron E. Miller	01-01-96
5. ISB (IC1)	02-07-95 06	746 706 718 735 10 mls 712 on top	100 mls 10 mls 5 mls	1,000 mls	5% HCl 1% HNO3	*	Ron E. Miller	10-01-95
6. GFAA INT. 4100's	2/7/95	707	5 mls	500 mls	5% HNO3	1 ppm all except Cd = 100 ppb	Brian J. Hamerde	3/7/95
7. GFAA INT. 4100's	2/7/95	708	5 mls	500 mls	5% HNO3	1 ppm all except Cd = 100 ppb	Brian J. Hamerde	3/7/95
8. SB (IC2)	2/9/95	#85 20 711 [illegible] 718 735 714	100 mls 10 5 10 mls on top	1 l	5% HCl + 1% HNO3	*	Douglas L Lucas	8 [illegible] 10/1/95

Reviewer Signature: Jodi L Wojcik Date: 2/13/95
* See Table I
Form II

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Metals Department
Intermediate Standard/Spiking Solution Preparation Log

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Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1. ICP SPIKE SOLN	2/10/95	710 755	100 mls ↓	1 l	4% HNO3	*	Douglas L Lucas	1/1/96
2. 5100 INT	2/15/95	#707 STANDARD	5.0 mls	500 mls	2% HNO3	ALL = 1.0 PPM EXCEPT Cd = 100.0 PPB	[illegible]	3/15/95
3. 5100 INT	2/15/95	#708 QC	5.0 mls	500 mls	2% HNO3	ALL = 1.0 PPM EXCEPT Cd = 100.0 PPB	[illegible]	3/15/95
4. ICV/CCV (IC1)	02-15-95	694 695 716 712	10 mls 50 mls 10 mls on top	1,000 mls	1% HNO3, 5% HCl	*	Ron E. Miller	10-01-95 ~~02~~ REM 02-15-95
5. ICV/CCV (IC2)	2/15/95	694 695 716 714	5 mls 25 mls 5 mls on top	500 mls	1% HNO3, 5% HCl	*	Douglas L Lucas	10/1/95
6. 3:30 Int Std 1.00 PPM	2/17/95	#707	10.0 ml	1000 mls	2% HNO3	1.00 PPM 0.10 PPM Cd	[illegible]	3/17/95
7. 3:30 Int QC 2.5 PPM	2/17/95	#708	2.5 ml	100 mls	2% HNO3	2.5 PPM 0.25 Cd	[illegible]	3/17/95
8. 3:30 Int QC 3.5 PPM	2/17/95	#708	3.5 ml	100 mls	2% HNO3	3.5 PPM 0.25 Cd	[illegible]	3/17/95

Reviewer Signature: Jodi L Wojcik Date: 2-21-95
* See Table I
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Metals Department
Intermediate Standard/Spiking Solution Preparation Log

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Bk# 1276

	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
	3030 Int Sb Std	2/17/95	699	0.1 ml	100 ml	2% HNO_3	1 ppm	[signature]	3/17/95
2.	3030 Int QC Sb 2.5	2/17/95	702	0.25 ml	100 ml	2% HNO_3	2.5 ppm	[signature]	3/17/95
3.	3030 Int QC Sb 3.5	2/17/95	702	0.35 ml	100 ml	2% HNO_3	3.5 ppm	[signature]	3/17/95
4.	Sb INT.	2/22/95	*699	100 ml	100 mls	4% HNO_3	1 ppm	Dettie Kelly	JAK 2/22/95 3/22/95
5.	Sb INT.	2/22/95	*702	100 ml	100 mls	4% HNO_3	1 ppm	Dettie Kelly	3/22/95
6.	CCV/ICV(STD) ICZ	3/2/95	#694, #695 #756 #714	10 MLS 5 MLS 10 MLS ON TOP	1 l	5% HCl/1% HNO_3	*	Douglas L Lucas	10/1/95
7.	5100 INT'S	3/6/95	#708 QC	5.0 mls	500 mls	2% HNO_3	All = 1.0 ppm Except Cd = 100.0 ppb	[signature]	4/6/95
8.	GFAA INT. 4100's	3/7/95	#708	5 mls	500 mls	2% HNO_3	All = 1.0 ppm except Cd = 100.0 ppb	[signature]	4/7/95

Reviewer Signature: [signature] Date: 3/8/95
* See Table I

Form II

Weston-Gulf Coast Laboratories, Inc.
Metals Department
Intermediate Standard/Spiking Solution Preparation Log

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Bk# 1276

	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	GFAA INT	3/7/95	#707	5 mls	500 mls	2% HNO_3	All = 1.0 ppm except Cd = 100.0 ppb	[signature]	4/7/95
2.	CRI (ICZ)	3/8/95	680 681 ~~696~~ 714	10 MLS ↓ 10 MLS ON TOP	1 l	5% HCl + 1% HNO_3	*	Douglas L Lucas	7/1/95
3.	ISA (ICZ)	3/8/95	746 ~~696~~ 714	100 MLS 10 MLS ON TOP	1 l	5% HCl + 1% HNO_3	*	Douglas L Lucas	1/1/96
4.	ICV/CCV ~~(ICZ)~~ (ICI)	3/9/95	694 695 756 713	10 mls 10 mls 5 mls 10 mls	1 l	1% HNO_3 5% HCl	*	[signature]	10/1/95
5.	5100 INT.	3/13/95	~~#707~~ STD.	5.0 MLS.	500.0 MLS.	2% HNO_3	All 1.0 ppm Cd = 100. ppb	[signature]	4/13/95
6.	ICP SPIKE SOLN.	3/16/95	#710 #755	100 mls ↓	1 l	4% HNO_3	*	Douglas L Lucas	1/1/96
7.	3030 Int Sb Std	3/17/95	699	0.1 ml	100 ml	2% HNO_3	1 ppm	[signature]	4/17/95
8.	[illegible] Int QC Sb 2.5	3/17/95	702	0.25 ml	100 ml	2% HNO_3	2.5 ppm	[signature]	4/17/95

Reviewer Signature: [signature] Date: 3/27/95
* See Table I

Form II

Weston-Gulf Coast Laboratories, Inc.
Metals Department
Intermediate Standard/Spiking Solution Preparation Log

Page: 73

8k# 1276

Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1. 3030 Int QC Sb 3.5	3/17/95	702	0.35 ml	100 mls	2% HNO_3	3.5 ppm	Ronald Febres	4/1[illegible]
2. 3030 Int Std 1.00 ppm	3/17/95	707	10.00 ml	1000 mls	2% HNO_3	1.00 ppm	Ronald Febres	4/17/95
3. 3030 Int QC 2.5 ppm	3/17/95	708	2.5 3/17 QC ~~100 mls~~	100 mls	2% HNO_3	2.5 ppm	Ronald Febres	4/17/95
4. 3030 Int QC 3.5 ppm	3/17/95	708	3.5 3/17 QC ~~100 mls~~	100 mls	2% HNO_3	3.5 ppm	Ronald Febres	4/17/95
5. Sb INT	3/23/95	#699	100 µl	100 mls	4% HNO_3	1 ppm	Debbie Kelly	DAK 3/23/95 4/23/95
6. Sb INT	3/23/95	#702	100 µl	100 mls	4% HNO_3	1 ppm	Debbie Kelly	4/23/95
7. 5100 INT	3/30/95	#708 QC	5.0 MLS.	500 ~~1000~~ MLS. BPH 3/30/95	2% HNO_3	ALL 1.0 PPM Cd = 100.0 PPB	[illegible]	4/30/95
8. Sb INT	4/6/95	#699	100 µl	100 mls	4% HNO_3	1 ppm	Debbie Kelly	5/6/95

Reviewer Signature: Jodi L. Uojcik Date: 4/13/95
* See Table I

Weston-Gulf Coast Laboratories, Inc.
Metals Department
Intermediate Standard/Spiking Solution Preparation Log

Page: 74

8k# 1276

Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1. Sb INT.	4/6/95	#702	100 µl	100 mls	4% HNO_3	1 ppm	Debbie Kelly	5/6/95
2. GFAA Int's 4100's	4/6/95	#708	5 mls	500 mls	2% HNO_3	all 1 ppm except Cd = 100.0 ppm	Debbie Kelly	5/6/95
3. GFAA Int's 4100's	4/6/95	#707	5 mls	500 mls	2% HNO_3	all 1.0 ppm except Cd = 100.0 ppm	Debbie Kelly	5/6/95
4. CCV (K2)	4/7/95	694 695 757	10 MLS ↓ 5 MLS	1 l	5% HCl + 1% HNO_3	*	Douglas L Lucas	10/1/95
5. ISB (K2)	4/10/95	745 711 718 735	100 MLS 10 MLS 5 MLS	1 l	5% HCl + 1% HNO_3	*	Douglas L Lucas	11/1/95
6. 5100 INT	4/10/95	#707 STD	5.0 MLS.	500.0 MLS.	2% HNO_3	ALL 1.0 PPM EXCEPT Cd = 100.0 PPB	[illegible]	5/10/95
7. IC1/ISA	4/13/95	#745 #713	100 mls 10 mls on top	1 l	5% HCl 1% HNO_3	*	Brian L Hamerda	1/1/96
8. IC1/ISB	4/13/95	#745 #711 #718 #735	100 mls 10 mls 5 mls 5 mls	1 l	5% HCl 1% HNO_3	*	Brian L Hamerda	11/1/95

Reviewer Signature: Jodi L. Uojcik Date: 4/13/95

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Weston-Gulf Coast Laboratories, Inc.
Metals Department
Intermediate Standard/Spiking Solution Preparation Log

Bk# 1276

	Standard Name	Prep Date	Traceability ID	Initial Volume	Final Volume	Matrix	Final Conc.	Analyst	Expiration Date
1.	ICV	4/13/95	694	8 mls	1L	5% HCl	X	[signature]	10/1/95
	ITICV		695	8 mls		1% HNO_3			
			757	4 mls					
			713	10 mls on top					
2.	3030 Int std 1000 ppm	4/17/95	707	5.00 mls	500 ml's	2% HNO_3	10 ppm	[signature]	5/17/95
3.	3030 Int QC 2.5 ppm	4/17/95	707	2.5 mls	100 mls	2% HNO_3	2.5 ppm	[signature]	5/17/95
4.	3030 Int QC 3.5 ppm	4/17/95	708	3.5 mls	100 mls	2% HNO_3	3.5 ppm	[signature]	5/17/95
5.	3030 Int Std Sb 1-60 ppm	4/17/95	699	0.1 ml	100 ml	2% HNO_3	1 ppm	[signature]	5/17/95
6.	3030 Int QC Sb 2.5 ppm	4/17/95	702	0.25 ml	100 ml	2% HNO_3	2.5 ppm	[signature]	5/17/95
7.	3030 Int QC Sb 3.5 ppm	4/17/95	702	0.35 ml	100 ml	2% HNO_3	3.5 ppm	[signature]	5/17/95
8	GFAA Pre-digestion Spike	4/24/95	#676 #734, 736, 737	10 ml 2 ml	1000 ml	2% HNO_3	★ Cr, Cu, Mg 2 ppm	[signature]	6/01/95

Reviewer Signature: Jodi L Wojcik Date: 4-24-95

* See Table I

Form II

Analyst : [signature] Date: 4/11/95 Updated:

Reviewer: Nila v Chetsi Date: 4/13/95 Page #: 102

537

OP No. 21-21G-1505
Rev. 01; Eff. Date 12/15/94

WESTON Environmental Metrics, Inc.
ICAP/FAA Sample Digestion Record

Digestion Date: 4/11/95 Digestion Batch No: 95GI 598 Client: Techalloy
Completion Date: 4/11/95 Type of Prep: ICP Method: 3050 CLP Matrix: Soil
Parameters: APPTX (-As, Se, Pb, Tl) Type of Analysis: Total Continued From:
Start Time: 10:10

Sample Number	Init. Wt/Vol g ml	Final Vol ml	pH <2>	% Solids	Parameters
9504G211-011	1.32	200	N/A	87.0	
-012	1.32	↓	↓	86.3	
-013	1.13	↓	↓	87.7	
-014	1.35	↓	↓	88.0	
-015	1.05	↓	↓	96.2	
-015R	1.14	↓	↓	↓	
-015S	1.08	↓	↓	↓	
PB1	1.0	200	N/A	100	
LCS1	↓	↓	↓	↓	
ED 4/11/95 ~~LCS2~~					

ED 4/11/95

Standard Traceability: ED 4/11/95
Matrix Spike/Std.ID#'s Added:
ICP Soln 1276-72-6 ~~1.0~~ ml
2.0

LCS Spike / Std.ID#'s Added:
ICP Soln 1276-72-6 2.0ml

Temperature Monitoring:

Hot Plate #	1024	
Start Temp. C	95	
End Temp. C	95	

Preservative: Nitric Acid
Lot #: N/A
IP HNO_3: H39028
H_2O_2: G45910
IP HCl: H15043

2

Analyst [signature] Date: 4/11/95 Updated: NVC 4/11/95

Reviewer:

Reviewer: Nila v Cheksi Dat [illegible]

WESTON OP No. 21-21G-1540 CLP - Sample Physical Description Log

538

Digestion Date: 4/11/95 Digestion Batch No: 95GI Q 598 ED 4/11/95 Client: Techalloy

Refer to Book # 1832 Page 103 of the Sample Digestion Record

Sample Number	Color * Before	Color * After	Clarity ** Before	Clarity ** After	Texture *** Before	Texture *** After	Artifacts	Comments
9504G211-011	Brown	yellow	N/A	Clear	Medium	N/A		
-012	↓	Colorless	↓	↓	↓	↓		
-013	↓	yellow	↓	↓	↓	↓		
-014	↓	↓	↓	↓	↓	↓		
-015	↓	Colorless	↓	↓	↓	↓		

ED 4/11/95

For Water Samples: Report Color and Clarity
For Soil Samples: Report Color; Texture; and Artifacts

Note any artifacts in the artifacts column.
Note any significant changes that occur during sample preparation (i.e. emulsion formation) in the Comments Section.

* Color: Red; Blue; Yellow; Green; Orange; Violet; White; Colorless; Brown; Grey; Black;
** Clarity: Clear; Cloudy; Opaque;
*** Texture: Fine (powdery); Medium (sand); Coarse (large crystals or rocks);

Analyst: Eileen Durkin Dat: 4/11/95 Page #: 203

Reviewer: Nila v Cheksi Date: 4/13/95

OP No. 21-21G-1505
Rev. 01; Eff. Date 12/15/94

WESTON Environmental Metrics, Inc.
ICAP/FAA Sample Digestion Record

539

Digestion Date: 4/12/95 Digestion Batch No: 95GI 601 Client: Techalloy
Completion Date: 4/12/95 Type of Prep: ICP Method: 3010 CLP Matrix: Water
Parameters: HSL (-As, Se, Pb, Tl) Type of Analysis: Total Continued From:
Start Time: 0845

Sample Number APPIX ED 4/12/95	Init. Wt/Vol g (ml)	Final Vol ml	pH <2>	% Solids	Parameters *Soluble
9504G211-001	50	50	<2	N/A	
-001R	↓	↓	↓	↓	
-001S	↓	↓	↓	↓	
* -002	↓	↓	↓	↓	
-002R	↓	↓	↓	↓	
-002S	↓	↓	↓	↓	
-003	↓	↓	↓	↓	
* -004	↓	↓	↓	↓	
-005	↓	↓	↓	↓	
* -006	↓	↓	↓	↓	
-007	↓	↓	↓	↓	
* -008	↓	↓	↓	↓	
-009	↓	↓	↓	↓	
* -010	↓	↓	↓	↓	
ED 4/12/95					
PB1	50	50	<2	N/A	
LCS1	↓	↓	↓	↓	
ED 4/12/95 ~~LCS2~~					

Standard Traceability:
Matrix Spike/Std.ID#'s Added:
ICP Soln 1276-72-6 500ul

LCS Spike / Std.ID#'s Added:
ICP Soln 1276-72-6 500ul

Temperature Monitoring:

Hot Plate #	1256	
Start Temp. C	95	
End Temp. C		

Preservative: Nitric Acid
Lot #: N/A
IPHNO3: H39028
IPHCl: H15043

Analyst: Eileen Dunk Date: 4/12/95 Updated:
Reviewer: Nilce v Chaksi Date: 4/13/95 Page #: 106

WESTON OP No. 21-21G-1540 CLP - Sample Phys al Description Log

Digestion Date: 4/12/95 Digestion Batch No: 95G1601 Client: Techalloy

Refer to Book # 1832 Page 106 of the Sample Digestion Record

540

Sample Number	Color * Before	Color * After	Clarity ** Before	Clarity ** After	Texture *** Before	Texture *** After	Artifacts	Comments
9504G211-001	Colorless	Colorless	Clear	Clear	N/A	N/A		
-002	↓	↓	↓					
-003	Brown	yellow	opaque					
-004	Colorless	Colorless	Clear					
-005								
-006			↓					
-007			Cloudy					
-008			Clear					
-009			Cloudy					
-010	↓	↓	Clear	↓	↓	↓		

For Water Samples: Report Color and Clarity
For Soil Samples: Report Color; Texture; and Artifacts

Note any artifacts in the artifacts column.
Note any significant changes that occur during sample preparation (i.e. emulsion formation) in the Comments Section.

* Color: Red; Blue; Yellow; Green; Orange; Violet; White; Colorless; Brown; Grey; Black;
** Clarity: Clear; Cloudy; Opaque;
*** Texture: Fine (powdery); Medium (sand); Coarse (large crystals or rocks);

Analyst: Eileen Dunk Date: 4/12/95 Page #: 206

Reviewer: Nila V Dokai Date: 4/13/95

WESTON OP No. 21-21G-1540 CLP - Sample Physical Description

Analyst : [illegible] Date: [illegible] Updated: [illegible] NVC 4/11/95

Reviewer: Nila V Chelsi Date: 4-11-95 Page #: 126

OP No. 21-21G-1504
Rev. 01; Eff. Date 12/14/94

WESTON Environmental Metrics, Inc.
GFAA Sample Digestion Record

Digestion Date: 4/11/95 Digestion Batch No: 95GF 767 Client: Techalloy
Completion Date: 4/11/95 Type of Prep: AA Method: 3020 CLP Matrix: Water
Parameters: As, Se, Pb, Tl Type of Analysis: Total Continued From:
*Soluble Start Time: 09:45

Sample Number	Init. Wt/Vol g (ml)	Final Vol ml	pH <2>	% Solids	Parameters
9504G211-001	50	50	<2	N/A	
-001R					
-001S					
* -002					
-002R					
-002S					
-003					
* -004					
-005					
* -006					
-007					
* -008					
-009					
* -010					
PB1	50	50	<2	N/A	
LCS1					
~~LCS2~~					

EP 4/11/95

Standard Traceability:
Matrix Spike/Std.ID#'s Added:
GFAA Soln 1276-65-5 500µl

LCS Spike / Std.ID#'s Added:
GFAA Soln 1276-65-5 500µl

Temperature Monitoring:

Hot Plate #	889	
Start Temp. C	95	
End Temp. C	95	

Preservative: Nitric Acid
Lot #: N/A
IPHNO3: H39028
H2O2: G45910

3

Analyst : [illegible] Date: 4/11/95 Updated:

Reviewer Nila V Chelsi Date: 4/13/95 Page #: 127

WESTON OP No. 21-21G-1540 CLP - Sample Physical Description Log

Digestion Date: 4/11/95 Digestion Batch No: 95-F767 Client: Techalloy

Refer to Book # 1825 Page 127 of the Sample Digestion Record

542

Sample Number	Color * Before	Color * After	Clarity ** Before	Clarity ** After	Texture *** Before	Texture *** After	Artifacts	Comments
5046-211-001	Colorless	Colorless	Clear	Clear	N/A	N/A		
-002	↓	↓	↓	↓	↓	↓		
-003	Brown		Opaque	Cloudy				
-004	Colorless		Clear	Clear				
-005			↓	↓				
-006			Cloudy					
-007			Clear					
-008			Cloudy					
-009			Clear					
-010	↓	↓	↓	↓	↓	↓		
ED 4/11/95								

For Water Samples: Report Color and Clarity
For Soil Samples: Report Color; Texture; and Artifacts

Note any artifacts in the artifacts column.
Note any significant changes that occur during sample preparation (i.e. emulsion formation) in the Comments Section.

* Color: Red; Blue; Yellow; Green; Orange; Violet; White; Colorless; Brown; Grey; Black;
* Clarity: Clear; Cloudy; Opaque;
** Texture: Fine (powdery); Medium (sand); Coarse (large crystals or rocks);

Analyst: Eileen Durkin Date: 4/11/95 Page #: 204

Reviewer: Nila V Chokshi Date: 4/13/95

WESTON OP No. 21-21G-1540 CLP - Sample Physical Description Log

OP No. 21-21G-1504
Rev. 01; Eff. Date 12/14/94

WESTON Environmental Metrics, Inc.
GFAA Sample Digestion Record

Digestion Date: 4/11/95 Digestion Batch No: 95GF768 Client: Technology
Completion Date: 4/11/95 Type of Prep: AH Method: 3050C/P Matrix: Soil
Parameters: As, Se, Pb, TI Type of Analysis: Total Continued From:
Start Time: 10:10

Sample Number	Init. Wt/Vol g ml	Final Vol ml	pH <2>	% Solids	Parameters
9504021I-011	1.20	200	N/A	87.0	
-012	1.26			86.3	
-013	1.40			87.7	
-014	1.14			88.0	
-015	1.01e			96.2	
-015D	1.11				
-015S	1.36	↓	↓	↓	
PB1	1.0	200	N/A	100	
LCS1	↓	↓	↓	↓	
LCS2					

ED 4/11/95

4/11/95

Standard Traceability:
Matrix Spike/Std.ID#'s Added: GFAA Soln 12Tc-265-5.2.Dm

LCS Spike / Std.ID#'s Added: GFAA Soln 12Tc-265-5.2.Dm

Temperature Monitoring:

Hot Plate #	1023	
Start Temp. C	95	
End Temp. C	95	

Preservative: Nitric Acid
Lot #: N/A
IBHNO3: H39028
H2O2: G45910

Analyst: Eileen Quirk Date: 4/11/95 Updated:
Reviewer: Nila V Choksi Date: 4/13/95 Page #: 128

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OP No. 21-21G-1504
Rev. Eff. Date 12/14/94

WESTON Environmental Metrics, Inc.
GFAA Sample Digestion Record

Digesti Date: 4-11-95 Digestion Batch No: GF769 Client: AT&T
Matrix:

Analyst: [illegible]

Reviewer: Mike V Deksi Date: 4/13/95

WESTON OP No. 21-21G-1540 **CLP - Sample Physical Description Log**

Digestion Date: 4/11/95 Digestion Batch No: 95GF768 Client: Technology

Refer to Book # 1825 Page 128 of the Sample Digestion Record

Sample Number	Color * Before	Color * After	Clarity ** Before	Clarity ** After	Texture *** Before	Texture *** After	Artifacts	Comments
95041-211-011	Brown	Colorless	N/A	Clear	Medium	N/A		
-012	↓	↓	↓	↓	↓	↓		
-013	↓	↓	↓	↓	↓	↓		
-014	↓	Yellow	↓	↓	↓	↓		
-015	↓	Colorless	↓	↓	↓	↓		
EDD 4/11/95								

For Water Samples: Report Color and Clarity
For Soil Samples: Report Color; Texture; and Artifacts

Note any artifacts in the artifacts column.
Note any significant changes that occur during sample preparation (i.e. emulsion formation) in the Comments Section.

* Color: Red; Blue; Yellow; Green; Orange; Violet; White; Colorless; Brown; Grey; Black;
** Clarity: Clear; Cloudy; Opaque;
*** Texture: Fine (powdery); Medium (sand); Coarse (large crystals or rocks);

Analyst: [signature] Dat 4/11/95 Page #: 205

Reviewer: Mike V Deksi Date: 4/13/95

Weston-Gulf Coast Laboratories, Inc.
% Sol./ % Ash / % Vol. / % Mst.

Method: Solids - 2540 G, Std. Methods 17Ed. LIMS Batch: 95GTS200

Codes:

TARE	= B
WET	= C
DRY	= A
MUFFLE	= D

Calculations:

% Solids = (A - B) / (C - B) X 100
% Ash "A" = (D - B) / (C - B) X 100
% Ash "D" = (D - B) / (A - B) X 100
% Volatiles = (A - D) / (A - B) X 100
% Moisture = 100 - % Solids

INSTRUMENT CHECKS

Control Limits: 10 +/-0.0005 g | 103-105°C | 550 +/-50°C

Balance #	Gram Wt.	Reading	Oven #	Pre Temp\Post Temp	Furnace #	Furnace Temp
253	10.0	10.0000	225	108.8°C 107.8°C		

I have verified that the weights obtained by the balance interface software match the readings from the analytical balance listed above.

Analyst Signature: [signature] Date: 4/11/95

Reviewer Signature: [signature] Date: 4/11/95

RFW	Dish	Tests	Result (%)	RPD	Weight Name	Weights (grams)	Date	Time	Analyst
95GTS200-MB1	1	I%SOL	0.0		TARE:	1.3047			
					WET:	11.6615	04/11/95	09:46:56	JL
					DRY:	1.3047	04/11/95	15:26:17	JL
9504G211-011	2	I%SOL	87.0		TARE:	1.3037			
					WET:	12.8086	04/11/95	09:48:34	JL
					DRY:	11.3146	04/11/95	15:26:41	JL
9504G211-012	3	I%SOL	86.3		TARE:	1.3016			
					WET:	12.1835	04/11/95	09:49:57	JL
					DRY:	10.6895	04/11/95	15:25:53	JL
9504G211-013	4	I%SOL	87.7		TARE:	1.3025			
					WET:	12.0793	04/11/95	09:50:47	JL
					DRY:	10.7562	04/11/95	15:29:15	JL
9504G211-014	5	I%SOL	88.0		TARE:	1.2882			
					WET:	13.1163	04/11/95	09:51:51	JL
					DRY:	11.6910	04/11/95	15:26:58	JL
9504G211-015	6	I%SOL	96.2		TARE:	1.2928			
					WET:	12.8719	04/11/95	09:52:50	JL
					DRY:	12.4356	04/11/95	15:27:16	JL

Weston-Gulf Coast Laboratories, Inc.
% Sol. / % Ash / % Vol. / % Mst.

LIMS Batch: 95GTS200

RFW	Dish	Tests	Result (%)	RPD	Weight Name	Weights (grams)	Date	Time	Analyst
9504G211-015R	7	I%SOLR	96.9	0.7	TARE:	1.2948			
					WET:	12.5598	04/11/95	09:53:57	JL
					DRY:	12.2081	04/11/95	15:27:36	JL
9504G212-001	8	I%SOL	88.5		TARE:	1.2973			
					WET:	12.4808	04/11/95	09:55:07	JL
					DRY:	11.1896	04/11/95	15:27:56	JL
9504G212-002	9	I%SOL	93.8		TARE:	1.2962			
					WET:	12.2260	04/11/95	09:57:15	JL
					DRY:	11.5455	04/11/95	15:29:35	JL
9504G212-003	10	I%SOL	59.5		TARE:	1.2965			
					WET:	12.7227	04/11/95	09:58:12	JL
					DRY:	8.0922	04/11/95	15:29:57	JL
9504G212-004	11	I%SOL	55.1		TARE:	1.3006			
					WET:	14.5942	04/11/95	10:01:34	JL
					DRY:	8.6197	04/11/95	15:28:23	JL
9504G212-005	12	I%SOL	94.0		TARE:	1.2980			
					WET:	14.1145	04/11/95	10:02:42	JL
					DRY:	13.3470	04/11/95	15:28:50	JL
9504G212-006	13	I%SOL	82.6		TARE:	1.3011			
					WET:	13.7053	04/11/95	10:04:54	JL
					DRY:	11.5493	04/11/95	15:30:43	JL
9504G212-007	14	I%SOL	87.0		TARE:	1.3003			
					WET:	14.2932	04/11/95	10:06:09	JL
					DRY:	12.6041	04/11/95	15:31:09	JL
9504G212-008	15	I%SOL	83.0		TARE:	1.2992			
					WET:	13.9010	04/11/95	10:07:08	JL
					DRY:	11.7596	04/11/95	15:30:19	JL

*** End of % Solids Report ***

Weston Environmental Metrics, Inc.
VOA ANALYTICAL DATA PACKAGE FOR
Techalloy

RFW LOT # :9504G211

CLIENT ID	RFW #	MTX	PREP #	COLLECTN DATE	REC	EXT/PREP	ANALYSIS
TC2-BG06-GWS	001	W	95GVB090	04/09/95	04/10/95	N/A	04/20/95
TC2-BG06-GWS	001 D1	W	95GVB093	04/09/95	04/10/95	N/A	04/21/95
TC2-BG06-GWS	001 D2	W	95GVE116	04/09/95	04/10/95	N/A	04/22/95
TC2-BG06-GWS	001 MS	W	95GVB090	04/09/95	04/10/95	N/A	04/20/95
TC2-BG06-GWS	001 MSD	W	95GVB090	04/09/95	04/10/95	N/A	04/20/95
TC2-BG06-GWD	003	W	95GVB090	04/09/95	04/10/95	N/A	04/20/95
TC2-BG07-GWS	005	W	95GVB090	04/09/95	04/10/95	N/A	04/20/95
TC2-BG07-GWS	005 D1	W	95GVB093	04/09/95	04/10/95	N/A	04/21/95
TC2-BG07-GWD	007	W	95GVB090	04/09/95	04/10/95	N/A	04/20/95
TC2-BG06-GWS-DP	009	W	95GVB090	04/09/95	04/10/95	N/A	04/20/95
TC2-BG06-GWS-DP	009 D1	W	95GVB093	04/09/95	04/10/95	N/A	04/21/95
TC2-BG06-GWS-DP	009 D2	W	95GVE116	04/09/95	04/10/95	N/A	04/22/95
TC2-BG06-SBS	011	S	95GVF103	04/09/95	04/10/95	N/A	04/20/95
TC2-BG06-SBD	012	S	95GVF109	04/09/95	04/10/95	N/A	04/23/95
TC2-BG06-SBS-DP	013	S	95GVF109	04/09/95	04/10/95	N/A	04/23/95
TC2-BG07-SBS	014	S	95GVB092	04/09/95	04/10/95	N/A	04/20/95
TC2-BG07-SBD	015	S	95GVB092	04/09/95	04/10/95	N/A	04/20/95
TC2-BG07-SBD	015 MS	S	95GVB092	04/09/95	04/10/95	N/A	04/20/95
TC2-BG07-SBD	015 MSD	S	95GVB092	04/09/95	04/10/95	N/A	04/20/95
LAB QC:							
VBLK	MB1	W	95GVB090	N/A	N/A	N/A	04/19/95
VBLK	MB1 BS	W	95GVB090	N/A	N/A	N/A	04/20/95
VBLK	MB1	W	95GVB093	N/A	N/A	N/A	04/20/95
VBLK	MB1 BS	W	95GVB093	N/A	N/A	N/A	04/21/95
VBLK	MB1	W	95GVE116	N/A	N/A	N/A	04/21/95
VBLK	MB1 BS	W	95GVE116	N/A	N/A	N/A	04/22/95
VBLK	MB1	S	95GVF103	N/A	N/A	N/A	04/19/95
VBLK	MB1 BS	S	95GVF103	N/A	N/A	N/A	04/20/95
VBLK	MB1	S	95GVF109	N/A	N/A	N/A	04/23/95
VBLK	MB1 BS	S	95GVF109	N/A	N/A	N/A	04/23/95
VBLK	MB1 BSD	S	95GVF109	N/A	N/A	N/A	04/24/95
VBLK	MB1	S	95GVB092	N/A	N/A	N/A	04/20/95
VBLK	MB1 BS	S	95GVB092	N/A	N/A	N/A	04/20/95
VBLK	MB1 BSD	S	95GVB092	N/A	N/A	N/A	04/20/95

NY CERTIFICATION # 11006

VOLATILES BY GC/MS DATA PACKAGE
TECHALLOY
RFW# 9504G211

Laboratory Chronicle 01
Chain of Custody 02
Data Summary 07
I. Case Narrative..... 63
II. QC Summary 65
- A. Surrogate % Recovery Summary (Form II)
- B. Matrix spike (Form III)
- C. Reagent Blank Summary (Form IV)
- D. GC/MS Tuning and Calibration Standard (Form V)

III. Sample Data Package 104
- A. Sample data in order of analysis
  - 1. Tabulated Results (Form I)
  - 2. Tentatively Identified Compound (Form 1E)
  - 3. Raw data in order:
    - a. Reconstructed Ion Chromatograms
    - b. Quantitation Reports
    - c. HSL Mass Spectra
    - d. TIC Mass Spectra
    - e. GC/MS Library Search for TIC

IV. Standards Data Package 231
- A. Initial Calibration Data
  - 1. Form VI
  - 2. Reconstructed Ion Chromatograms and Quantitation Reports
- B. Continuing Calibration Data
  - 1. Form VII
  - 2. Reconstructed Ion Chromatograms and Quantitation Reports
- C. Internal Standard Summary (Form VIII)

V. Raw QC Data Package 359
- A. GC/MS Tuning and Calibration Standard: BFB
  - 1. Bar Graph
  - 2. Mass Listing
- B. Blank Data
  - 1. Tabulated Results (Form I)
  - 2. TIC Results (Form IB)
  - 3. Raw Data
    - a. Reconstructed Ion Chromatograms and Quantitation Reports
    - b. HSL Spectra
    - c. TIC Spectra
    - d. GC/MS Library Search for TIC
- C. Matrix Spike Data
  - 1. Tabulated Results (Form I)
  - 2. Raw Data
    - a. Reconstructed Ion Chromatograms
    - b. Quantitation Reports
- D. Run Log Summary

M A. Kenyon
GC/MS Section Manager

5-8-95
Date

CHAIN OF CUSTODY

Custody Transf[illegible] Record/Lab Work Request

WESTON Analytics Use Only: 95046211

Client: Techalloy
Work Order: 01989.009.002
Date Rec'd: 4/10/95 Date Due: 4/24/95
RFW Contact: Jane Hubar
Client Contact/Phone: Carlos Serna

WA Use Only Lab ID	Client ID/Description	Matrix	Date Collected	Refrigerator#	P	CLP	CLP	CLP	P	CLP	→		
				#/Type Container	8/G	1P	1P	1P	1G	4-oz	→		
				Volume	40ml	1-l	1-l	1-l	2-G	1lG	→		
				Preservative	X		X	X					
				ANALYSES REQUESTED →	VOA 624N	TSS	Total APPIX Metals	Sol. APPIX Metals	VOA 624N	APPIX Metals	%Sol	REDD	
001	TC2-BG06-GWS MS/MSD	W	4/9/95		X	X	X					X	
002	" Sol. MS/MSD							X					
003	TC2-BG06-GWD				X	X	X						
004	" Sol.							X					
005	TC2-BG07-GWS				X	X	X						
006	" Sol.							X					
007	TC2-BG07-GWD				X	X	X						
008	" Sol.							X					
009	TC2-BG06-GWS-DP				X	X	X						
010	" Sol.							X					
011	TC2-BG06-SBS	S							X	X	X		
012	" -SBD												
013	" -SBS-DP												
014	BG07-SBS												
015	" -SBD MS/MSD*								X	X	X		

Matrix: W - Water; DS - Drum Solids; X - Other; S - Soil; O - Oil; DL - Drum Liquids; SE - Sediment; A - Air; F - Fish; SO - Solid; WI - Wipe; L - EP/TCLP Leachate

Special Instructions: *Rec'd 2, 2-oz jars + 1, 4-oz QC/Del = CLP

Item/Reason	Relinquished by	Received by	Date	Time
		[illegible]	4/10/95	1345
2-10 ozm Metals to be Filtered	[illegible]	[illegible]	4/10/95	1305
1-9 oz 11-15 VOAs	L. Heine	Mobley	4/10/95	16:06
2-10 ozm Metals	L Dennis	[illegible]	4/10/95	1845
1-15 Metals	P. Spradley	[illegible]	4/11/95	0820
11-15 metals/Hg	[illegible]	J Mccoy	4/11/95	10:00

Item/Reason	Relinquished by	Received by	Date	Time
*16 Solid #15	J Mccoy	P Spradley	4/11/95	1040
1-10 Metals	Cheryl Boyd	P Spradley	4/12/95	1350
11-15 Hg	P Spradley	Cheryl Boyd	4/12/95	1350
11-15 Hg	L Dennis	P Spradley	4/12/95	1555
1,3,5,7,9 TSS	L Heine	Grade 1 Hauler	4/13/95	10:30
1,3,5,7,9 TSS	Grade 1 Hauler	L Heine	4-13-95	12:00

RFW 21-21-001/A-12/88

WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered
NOTES:

2 Ambient or Chilled
NOTES:

3 Received Broken/Leaking (Improperly Sealed)
Y N
NOTES:

Labels Indicate
4 Properly Preserved
Y N
NOTES:
b/ Hx per metals lab

5 Received Within Holding Times
Y N
NOTES:

COC Tape Was:
1 Present on Outer Package Y N
2 Unbroken on Outer Package Y N
3 Present on Sample Y N
4 Unbroken on Sample Y N
NOTES:

COC Record Was:
1 Present Upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N
NOTES:
XXX JDR JD

7-115

WESTON Analytics Use Only

9504G211

Custody Transfer Record/Lab Work Request

WESTON MANAGERS DESIGNERS CONSULTANTS

Page 1 of 1

4

Client: Techalloy Inc

Est. Final Proj. Sampling Date: 4/9/95

Work Order #: 01989-009-002

Project Contact/Phone #: Carlos Serna / Jamal X4000

AD Project Manager:

QC: Del: TAT:

Date Rec'd: Date Due:

Account #:

Refrigerator #																						
#/Type Container	Liquid	Glass													Plastic →							
	Solid																					
Volume	Liquid																					
	Solid																					
Preservatives		HCl													HNO3			Cool				
ANALYSES REQUESTED →		ORGANIC													INORG							
		VOA	BNA	Pest/PCB	Herb										Metal	CN	Metals					

WESTON Analytics Use Only

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	*	Total		Dissolved	TSS
001,2	TC2-BG06-GWS			W	4/9/95	1010	✓	✓		✓	✓
003,4	TC2-BG06-GWD			W	↓	1035	✓	✓		✓	✓
005,6	TC2-BG07-GWS			W	↓	1130	✓	✓		✓	✓
007,8	TC2-BG07-GWD			W	↓	1155	✓	✓		✓	✓
009,10	TC2-BG07-GWS-DP			W	↓	1010	✓	✓		✓	✓
	~~Trip Blank~~										

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

* VOCs as per QAPP for Techalloy

* Dissolved metal have to be filtered and preserved

DATE/REVISIONS:

1.
2.
3.
4.
5. preserved w/ampules
6. supplied by client

filtered & preserved in lab

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ✓
Airbill #
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N
COC Record Present Upon Sample Rec't Y or N

Discrepancies Between Samples Labels and COC Record? Y or N

NOTES: [illegible] 4/10/95

Relinquished by	Received by	Date	Time
Jamal	Gulf Coast	4/10/95	0930
	P. [illegible]	4/10/95	0950

Relinquished by	Received by	Date	Time

RFW 21-21-001/A-7/91 ___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# ___ Cooler# ___ 381-596a

WESTON Analytics Use Only
9504G211

Custody Transfer Record/Lab Work Request

WESTON MANAGERS® DESIGNERS • CONSULTANTS

5

Client: Technology Inc.
Est. Final Proj. Sampling Date: 4/9/95
Work Order #: 01989-009-007
Project Contact/Phone #: Carlos Serna/Tunnel x4000
AD Project Manager:
QC: Del: TAT:
Date Rec'd: Date Due:
Account #:

Refrigerator #

#/Type Container	Liquid	Clear							Clear							
	Solid															
Volume	Liquid															
	Solid	2oz							4oz							
Preservatives																

ANALYSES REQUESTED → ORGANIC: VOA, BNA, Pest/PCB, Herb; INORG: Metal, CN

MATRIX CODES: S - Soil, SE - Sediment, SO - Solid, SL - Sludge, W - Water, O - Oil, A - Air, DS - Drum Solids, DL - Drum Liquids, L - EP/TCLP Leachate, WI - Wipe, X - Other, F - Fish	Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	WESTON Analytics Use Only: VOC												
	011	TC2-BG06-SBS			S	4/9/95	0935	✓							✓					
	012	TC2-BG06-SBD			S	4/9/95	0945	✓							✓					
	013	TC2-BG06-SBS-DP			S	4/9/95	0935	✓							✓					
	014	TC2-BG07-SBS			S	4/9/95	1110	✓							✓					
	015	TC2-BG07-SBD	✓	✓	S	4/9/95	1120	✓							✓					

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

DATE/REVISIONS:
1. 2. 3. 4. 5. 6.

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ✓
Airbill # ___
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

Relinquished by	Received by	Date	Time
[signature]	[signature]	4/10/95	0930
	[signature]	4/10/95	0950

Relinquished by	Received by	Date	Time

RFW 21-21-001/A-7/91 ___ L372 ___ L373 ___ L375 ___ L377 ___ L378 Ref# ___ Cooler# ___ 381-596a

Sample Discrepancy Report (SDR) OP No. 21-21G-0007

WESTON

LOG / PM / SM			Send Response to:
Initiator: KNSchulz	RFW # 9504G211		Name:
Date: 4/10/95	Analyses: metals, VOC		Address:
Client: Techalloy			
Contact: Carlos Serna x4100	Matrix: Water		
Site: Union Jamel	Prep Batch: —		
Phone # 78 918-4000	Date Needed: 4		Phone:
FAX # 918- ~~[illegible]~~ 4055	Project Type (circle) CLP STD Other		FAX:

Jolt

PM / LOG — 1. Type of Sample Deficiency:

- X Sample ID Discrepancy
- ___ Client Changed Request
- ___ Received Past Hold Time
- ___ Improper Preservative
- ___ Missing Sample / Extract
- ___ Analyzed Past Hold Time
- ___ Sampler C-O-C Error
- ___ Label ID Unreadable
- ___ Include in Narrative
- ___ Improper Bottle Type
- ___ Insufficient Sample
- ___ Container Broken
- ___ Log-in Error
- ___ Date Discrepancy
- ___ Bubbles in VOAs

2. Special Problem

	Lab ID	Client ID	Test	Deficiency/Discrepancy
1.	-009, 010	COC: TC2-BG07-GW5-DP		bottles: TC2-BG06-GW5-DP
2.				
3.				
4.				
5.				
6.				
7.				
8.				

Initiator Sign: KNSchulz Date: 4/10/95 PM Sign: [signature] Date: 4-10-95

LOG / RG — 3. PM, RG, & SM Establish an Action Plan:

- ___ Cancel
- ___ Add
- ___ Extract & Hold
- ___ Subcontract
- ___ Analyze Past Hold Time
- ___ QC on Sample _____: Org – Inorg
- ___ Preserve in Lab then Analyze
- ___ Change Test Code to: _____
- ___ Change Due Date to: _____

4. Special Action

Name:	Actions Required:	4. Actions Completed Initials:	Date:
1. LOG-IN	Use BG06 ID per Jameel	[illegible]	4/10/95
2.			
3.			
4.			
5.			
6.			
7.			
8.			

RG — 5. Acknowledge receipt and acceptance of Copies:

Initials:	Date:	Initials:	Date:
1.		4.	
2.		5.	
3.		6.	

RG Signature: Date:

PM — 6. Final Approval of All Actions Taken:

Comments: X Send Copy to Client

Signature: [signature] Date: 4-10-95

A — 7. For Quality Improvement Measurement Only:

Final Distribution – Attach original to worksheet and send a copy to QA 4/10/95 [initials]

Revision Date: 1/19/94

DATA SUMMARY

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-GWS**
Project # 01989-009-002-0000
Lab ID: **9504G211-001**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	10	U
Bromomethane	BRL	10	U
Vinyl chloride	BRL	10	U
Chloroethane	BRL	10	U
Methylene Chloride	BRL	5	U
Acetone	BRL	10	U
Carbon Disulfide	BRL	5	U
1,1-Dichloroethene	140	5	
1,1-Dichloroethane	E	5	
1,2-Dichloroethene (total)	160	5	
Chloroform	BRL	5	U
1,2-Dichloroethane	BRL	5	U
2-Butanone	BRL	10	U
1,1,1-Trichloroethane	E	5	
Carbon Tetrachloride	BRL	5	U
Vinyl acetate	BRL	10	U
Bromodichloromethane	BRL	5	U

J

K. Korobka
6/5/95

Weston Environmental Metrics, Inc.
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RE: **TC2-BG06-GWS**
Project # 01989-009-002-0000
Lab ID: **9504G211-001**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	5	U J
cis-1,3-Dichloropropene	BRL	5	U
Trichloroethene	52	5	
Dibromochloromethane	BRL	5	U
1,1,2-Trichloroethane	BRL	5	U
Benzene	BRL	5	U
trans-1,3-Dichloropropene	BRL	5	U
Bromoform	BRL	5	U
4-Methyl-2-pentanone	BRL	10	U
2-Hexanone	BRL	10	U
Tetrachloroethene	73	5	
1,1,2,2-Tetrachloroethane	BRL	5	U
Toluene	BRL	5	U
Chlorobenzene	BRL	5	U
Ethylbenzene	BRL	5	U
Styrene	BRL	5	U
Xylene (total)	BRL	5	U

L. Korobea
6/5/95

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To: **Techalloy**
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3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-GWS**
Project # 01989-009-002-0000
Lab ID: **9504G211-001**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Acrolein	BRL	500	U J
Acrylonitrile	BRL	100	U
Trichlorofluoromethane	BRL	10	U
Dichlorodifluoromethane	BRL	20	U
Acetonitrile	BRL	100	U
Iodomethane	BRL	10	U
Propionitrile (Ethyl Cyanide)	BRL	50	U
3-Chloropropene	BRL	20	U
Methacrylonitrile	BRL	20	U
Dibromomethane	BRL	10	U
Isobutyl alcohol	BRL	2000	U
1,2-Dibromoethane	BRL	20	U
1,1,1,2-Tetrachloroethane	BRL	10	U
1,2,3-Trichloropropane	BRL	10	U
trans-1,4-Dichloro-2-butene	BRL	20	U
1,2-Dibromo-3-chloropropane	BRL	20	U
2-Chloro-1,3-Butadiene	BRL	100	U

L. Kowalska
6/5/95

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2417 Bond Street
University Park, Illinois 60466-3182
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Fax: (708) 534-5211

To: Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-GWS**
Project # 01989-009-002-0000
Lab ID: **9504G211-001**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag	
Methylmethacrylate	BRL	20	U	J
Ethylmethacrylate	BRL	20	U	
Pentachloroethane	BRL	20	U	

K. Korabka 6/5/95

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To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-GWS**
Project # 01989-009-002-0000
Lab ID: **9504G211-001**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

Tentatively Identified Compounds

5 Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Volatile Compound	Retention Time	Estimated Concentration
UNKNOWN HYDROCARBON	23.10	400 J
UNKNOWN HYDROCARBON	24.72	200 J
UNKNOWN HYDROCARBON	25.63	800 J
UNKNOWN HYDROCARBON	26.02	300 J
UNKNOWN HYDROCARBON C11H22	26.93	200 J

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To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-GWS**
Project # 01989-009-002-0000
Lab ID: **9504G211-001 DL**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
1,1-Dichloroethane	300	50	
1,1,1-Trichloroethane	E	50	

L. Korolka 6/5/95

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Fax: (708) 534-5211

To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-GWS**
Project # 01989-009-002-0000
Lab ID: **9504G211-001 DL**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
1,1,1-Trichloroethane	2200	120	

L. Lorobka 6/5/95

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2417 Bond Street
University Park, Illinois 60466-3182
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Fax: (708) 534-5211

To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-GWD**
Project # 01989-009-002-0000
Lab ID: **9504G211-003**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	10	U J
Bromomethane	BRL	10	U
Vinyl chloride	BRL	10	U
Chloroethane	BRL	10	U
Methylene Chloride	BRL	5	U
Acetone	BRL	10	U
Carbon Disulfide	BRL	5	U
1,1-Dichloroethene	BRL	5	U
1,1-Dichloroethane	13	5	
1,2-Dichloroethene (total)	8	5	
Chloroform	BRL	5	U
1,2-Dichloroethane	BRL	5	U J
2-Butanone	BRL	10	U
1,1,1-Trichloroethane	160	5	J
Carbon Tetrachloride	BRL	5	U
Vinyl acetate	BRL	10	U
Bromodichloromethane	BRL	5	U

L. Korobra
6/5/95

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-GWD**
Project # 01989-009-002-0000
Lab ID: **9504G211-003**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	5	U
cis-1,3-Dichloropropene	BRL	5	U
Trichloroethene	31	5	
Dibromochloromethane	BRL	5	U
1,1,2-Trichloroethane	BRL	5	U
Benzene	BRL	5	U
trans-1,3-Dichloropropene	BRL	5	U
Bromoform	BRL	5	U
4-Methyl-2-pentanone	BRL	10	U
2-Hexanone	BRL	10	U
Tetrachloroethene	30	5	
1,1,2,2-Tetrachloroethane	BRL	5	U
Toluene	BRL	5	U
Chlorobenzene	BRL	5	U
Ethylbenzene	BRL	5	U
Styrene	BRL	5	U
Xylene (total)	BRL	5	U

L. Krobka
6/5/95

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University Park, Illinois 60466-3182
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Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-GWD**
Project # 01989-009-002-0000
Lab ID: **9504G211-003**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Acrolein	BRL	500	U
Acrylonitrile	BRL	100	U
Trichlorofluoromethane	BRL	10	U
Dichlorodifluoromethane	BRL	20	U
Acetonitrile	BRL	100	U
Iodomethane	BRL	10	U
Propionitrile (Ethyl Cyanide)	BRL	50	U
3-Chloropropene	BRL	20	U
Methacrylonitrile	BRL	20	U
Dibromomethane	BRL	10	U
Isobutyl alcohol	BRL	2000	U
1,2-Dibromoethane	BRL	20	U
1,1,1,2-Tetrachloroethane	BRL	10	U
1,2,3-Trichloropropane	BRL	10	U
trans-1,4-Dichloro-2-butene	BRL	20	U
1,2-Dibromo-3-chloropropane	BRL	20	U
2-Chloro-1,3-Butadiene	BRL	100	U

L. Korobka
6/5/95

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Date: Tuesday May 2nd, 1995

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Project # 01989-009-002-0000
Lab ID: **9504G211-003**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Methylmethacrylate	BRL	20	U
Ethylmethacrylate	BRL	20	U
Pentachloroethane	BRL	20	U

L. Kowalska 6/5/95

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Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-GWD**
Project # 01989-009-002-0000
Lab ID: **9504G211-003**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

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Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG07-GWS**
Project # 01989-009-002-0000
Lab ID: **9504G211-005**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag	
Chloromethane	BRL	10	U	J
Bromomethane	BRL	10	U	
Vinyl chloride	BRL	10	U	
Chloroethane	BRL	10	U	
Methylene Chloride	BRL	5	U	
Acetone	BRL	10	U	
Carbon Disulfide	BRL	5	U	
1,1-Dichloroethene	BRL	5	U	
1,1-Dichloroethane	8	5		
1,2-Dichloroethene (total)	11	5		
Chloroform	BRL	5	U	
1,2-Dichloroethane	BRL	5	U	J
2-Butanone	BRL	10	U	
1,1,1-Trichloroethane	180	5		J
Carbon Tetrachloride	BRL	5	U	
Vinyl acetate	BRL	10	U	
Bromodichloromethane	BRL	5	U	

L. Kordopa
6/5/95

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2417 Bond Street
University Park, Illinois 60466-3182
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To: Techalloy
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3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Tuesday May 2nd, 1995

RE: **TC2-BG07-GWS**
Project # 01989-009-002-0000
Lab ID: **9504G211-005**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	5	U
cis-1,3-Dichloropropene	BRL	5	U
Trichloroethene	26	5	
Dibromochloromethane	BRL	5	U
1,1,2-Trichloroethane	BRL	5	U
Benzene	BRL	5	U
trans-1,3-Dichloropropene	BRL	5	U
Bromoform	BRL	5	U
4-Methyl-2-pentanone	BRL	10	U
2-Hexanone	BRL	10	U
Tetrachloroethene	E	5	
1,1,2,2-Tetrachloroethane	BRL	5	U
Toluene	BRL	5	U
Chlorobenzene	BRL	5	U
Ethylbenzene	BRL	5	U
Styrene	BRL	5	U
Xylene (total)	BRL	5	U

L. Korecka
6/5/95

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Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

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Project # 01989-009-002-0000
Lab ID: **9504G211-005**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Acrolein	BRL	500	U
Acrylonitrile	BRL	100	U
Trichlorofluoromethane	BRL	10	U
Dichlorodifluoromethane	BRL	20	U
Acetonitrile	BRL	100	U
Iodomethane	BRL	10	U
Propionitrile (Ethyl Cyanide)	BRL	50	U
3-Chloropropene	BRL	20	U
Methacrylonitrile	BRL	20	U
Dibromomethane	BRL	10	U
Isobutyl alcohol	BRL	2000	U
1,2-Dibromoethane	BRL	20	U
1,1,1,2-Tetrachloroethane	BRL	10	U
1,2,3-Trichloropropane	BRL	10	U
trans-1,4-Dichloro-2-butene	BRL	20	U
1,2-Dibromo-3-chloropropane	BRL	20	U
2-Chloro-1,3-Butadiene	BRL	100	U

L Kovolka
6/5/95

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Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Tuesday May 2nd, 1995

RE: **TC2-BG07-GWS**
Project # 01989-009-002-0000
Lab ID: **9504G211-005**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Methylmethacrylate	BRL	20	U
Ethylmethacrylate	BRL	20	U
Pentachloroethane	BRL	20	U

L. Krolka 6/5/95

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2417 Bond Street
University Park, Illinois 60466-3182
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3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Tuesday May 2nd, 1995

RE: **TC2-BG07-GWS**
Project # 01989-009-002-0000
Lab ID: **9504G211-005**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

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2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG07-GWS**
Project # 01989-009-002-0000
Lab ID: **9504G211-005 DL**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Tetrachloroethene	590	25	

L. Kowalka 6/5/95

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2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
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To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG07-GWD**
Project # 01989-009-002-0000
Lab ID: **9504G211-007**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag	
Chloromethane	BRL	10	U	J
Bromomethane	BRL	10	U	
Vinyl chloride	BRL	10	U	
Chloroethane	BRL	10	U	
Methylene Chloride	BRL	5	U	
Acetone	BRL	10	U	
Carbon Disulfide	BRL	5	U	
1,1-Dichloroethene	BRL	5	U	
1,1-Dichloroethane	BRL	5	U	
1,2-Dichloroethene (total)	BRL	5	U	
Chloroform	BRL	5	U	
1,2-Dichloroethane	BRL	5	U	J
2-Butanone	BRL	10	U	
1,1,1-Trichloroethane	16	5		J
Carbon Tetrachloride	BRL	5	U	
Vinyl acetate	BRL	10	U	
Bromodichloromethane	BRL	5	U	

L. Korecka
6/15/95

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2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Tuesday May 2nd, 1995

RE: **TC2-BG07-GWD**
Project # 01989-009-002-0000
Lab ID: **9504G211-007**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	5	U
cis-1,3-Dichloropropene	BRL	5	U
Trichloroethene	7	5	
Dibromochloromethane	BRL	5	U
1,1,2-Trichloroethane	BRL	5	U
Benzene	BRL	5	U
trans-1,3-Dichloropropene	BRL	5	U
Bromoform	BRL	5	U
4-Methyl-2-pentanone	BRL	10	U
2-Hexanone	BRL	10	U
Tetrachloroethene	30	5	
1,1,2,2-Tetrachloroethane	BRL	5	U
Toluene	BRL	5	U
Chlorobenzene	BRL	5	U
Ethylbenzene	BRL	5	U
Styrene	BRL	5	U
Xylene (total)	BRL	5	U

L. Lovera
6/5/95

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Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG07-GWD**
Project # 01989-009-002-0000
Lab ID: **9504G211-007**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Acrolein	BRL	500	U
Acrylonitrile	BRL	100	U
Trichlorofluoromethane	BRL	10	U
Dichlorodifluoromethane	BRL	20	U
Acetonitrile	BRL	100	U
Iodomethane	BRL	10	U
Propionitrile (Ethyl Cyanide)	BRL	50	U
3-Chloropropene	BRL	20	U
Methacrylonitrile	BRL	20	U
Dibromomethane	BRL	10	U
Isobutyl alcohol	BRL	2000	U
1,2-Dibromoethane	BRL	20	U
1,1,1,2-Tetrachloroethane	BRL	10	U
1,2,3-Trichloropropane	BRL	10	U
trans-1,4-Dichloro-2-butene	BRL	20	U
1,2-Dibromo-3-chloropropane	BRL	20	U
2-Chloro-1,3-Butadiene	BRL	100	U

L. Loroloka
6/5/95

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Project # 01989-009-002-0000
Lab ID: **9504G211-007**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Methylmethacrylate	BRL	20	U
Ethylmethacrylate	BRL	20	U
Pentachloroethane	BRL	20	U

K. Kovoka 6/5/95

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Attn: Mr. Carlos Serna

Date: Tuesday May 2nd, 1995

RE: **TC2-BG07-GWD**
Project # 01989-009-002-0000
Lab ID: **9504G211-007**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

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3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-GWS-DP**
Project # 01989-009-002-0000
Lab ID: **9504G211-009**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag	
Chloromethane	BRL	10	U	J
Bromomethane	BRL	10	U	
Vinyl chloride	BRL	10	U	
Chloroethane	BRL	10	U	
Methylene Chloride	BRL	5	U	
Acetone	BRL	10	U	
Carbon Disulfide	BRL	5	U	
1,1-Dichloroethene	140	5		
1,1-Dichloroethane	E	5		
1,2-Dichloroethene (total)	160	5		
Chloroform	BRL	5	U	
1,2-Dichloroethane	BRL	5	U	
2-Butanone	BRL	10	U	
1,1,1-Trichloroethane	E	5		
Carbon Tetrachloride	BRL	5	U	
Vinyl acetate	BRL	10	U	
Bromodichloromethane	BRL	5	U	

L. Korobka
6/15/95

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Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-GWS-DP**
Project # 01989-009-002-0000
Lab ID: **9504G211-009**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	5	U J
cis-1,3-Dichloropropene	BRL	5	U
Trichloroethene	52	5	
Dibromochloromethane	BRL	5	U
1,1,2-Trichloroethane	BRL	5	U
Benzene	BRL	5	U
trans-1,3-Dichloropropene	BRL	5	U
Bromoform	BRL	5	U
4-Methyl-2-pentanone	BRL	10	U
2-Hexanone	BRL	10	U
Tetrachloroethene	71	5	
1,1,2,2-Tetrachloroethane	BRL	5	U
Toluene	BRL	5	U
Chlorobenzene	BRL	5	U
Ethylbenzene	BRL	5	U
Styrene	BRL	5	U
Xylene (total)	BRL	5	U

L. Korwbka
6/5/95

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RE: **TC2-BG06-GWS-DP**
Project # 01989-009-002-0000
Lab ID: **9504G211-009**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Acrolein	BRL	500	U J
Acrylonitrile	BRL	100	U
Trichlorofluoromethane	BRL	10	U
Dichlorodifluoromethane	BRL	20	U
Acetonitrile	BRL	100	U
Iodomethane	BRL	10	U
Propionitrile (Ethyl Cyanide)	BRL	50	U
3-Chloropropene	BRL	20	U
Methacrylonitrile	BRL	20	U
Dibromomethane	BRL	10	U
Isobutyl alcohol	BRL	2000	U
1,2-Dibromoethane	BRL	20	U
1,1,1,2-Tetrachloroethane	BRL	10	U
1,2,3-Trichloropropane	BRL	10	U
trans-1,4-Dichloro-2-butene	BRL	20	U
1,2-Dibromo-3-chloropropane	BRL	20	U
2-Chloro-1,3-Butadiene	BRL	100	U

L. Korobka
6/5/95

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Date: Tuesday May 2nd, 1995

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Project # 01989-009-002-0000
Lab ID: **9504G211-009**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag	
Methylmethacrylate	BRL	20	U	J
Ethylmethacrylate	BRL	20	U	
Pentachloroethane	BRL	20	U	

L Kolska
6/5/95

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Project # 01989-009-002-0000
Lab ID: **9504G211-009**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-GWS-DP**
Project # 01989-009-002-0000
Lab ID: **9504G211-009 DL**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
1,1-Dichloroethane	300	50	
1,1,1-Trichloroethane	E	50	

K. Korobka 6/5/95

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3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-GWS-DP**
Project # 01989-009-002-0000
Lab ID: **9504G211-009 DL**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/L

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
1,1,1-Trichloroethane	2300	120	

L. Kowalska 6/5/95

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To: Techalloy
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-SBS**
Project # 01989-009-002-0000
Lab ID: **9504G211-011**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag	
Chloromethane	BRL	12	U	R
Bromomethane	BRL	12	U	
Vinyl chloride	BRL	12	U	
Chloroethane	BRL	12	U	
Methylene Chloride	BRL	6	U	
Acetone	BRL	12	U	
Carbon Disulfide	BRL	6	U	
1,1-Dichloroethene	BRL	6	U	
1,1-Dichloroethane	BRL	6	U	
1,2-Dichloroethene (total)	BRL	6	U	
Chloroform	BRL	6	U	
1,2-Dichloroethane	BRL	6	U	
2-Butanone	BRL	12	U	
1,1,1-Trichloroethane	2	6	J	
Carbon Tetrachloride	BRL	6	U	R
Vinyl acetate	BRL	12	U	
Bromodichloromethane	BRL	6	U	

L. Korobra
6/5/95

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Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-SBS**
Project # 01989-009-002-0000
Lab ID: **9504G211-011**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag	
1,2-Dichloropropane	BRL	6	U	R
cis-1,3-Dichloropropene	BRL	6	U	
Trichloroethene	BRL	6	U	
Dibromochloromethane	BRL	6	U	
1,1,2-Trichloroethane	BRL	6	U	
Benzene	1	6	J	
trans-1,3-Dichloropropene	BRL	6	U	R
Bromoform	BRL	6	U	
4-Methyl-2-pentanone	BRL	12	U	
2-Hexanone	BRL	12	U	
Tetrachloroethene	BRL	6	U	
1,1,2,2-Tetrachloroethane	BRL	6	U	
Toluene	BRL	6	U	
Chlorobenzene	BRL	6	U	
Ethylbenzene	BRL	6	U	
Styrene	BRL	6	U	
Xylene (total)	BRL	6	U	

K. Krobka
6/5/95

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RE: **TC2-BG06-SBS**
Project # 01989-009-002-0000
Lab ID: **9504G211-011**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Acrolein	BRL	580	U R
Acrylonitrile	BRL	120	U
Trichlorofluoromethane	BRL	12	U
Dichlorodifluoromethane	BRL	23	U
Acetonitrile	BRL	120	U
Iodomethane	BRL	12	U
Propionitrile (Ethyl Cyanide)	BRL	58	U
3-Chloropropene	BRL	23	U
Methacrylonitrile	BRL	23	U
Dibromomethane	BRL	12	U
Isobutyl alcohol	BRL	2300	U
1,2-Dibromoethane	BRL	23	U
1,1,1,2-Tetrachloroethane	BRL	12	U
1,2,3-Trichloropropane	BRL	12	U
trans-1,4-Dichloro-2-butene	BRL	23	U
1,2-Dibromo-3-chloropropane	BRL	23	U
2-Chloro-1,3-Butadiene	BRL	120	U

L. Kolakea
6/5/95

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Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-SBS**
Project # 01989-009-002-0000
Lab ID: **9504G211-011**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag	
Methylmethacrylate	BRL	23	U	R
Ethylmethacrylate	BRL	23	U	
Pentachloroethane	BRL	23	U	

K Dobka 6/5/95

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Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-SBS**
Project # 01989-009-002-0000
Lab ID: **9504G211-011**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

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Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-SBD**
Project # 01989-009-002-0000
Lab ID: **9504G211-012**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	12	U
Bromomethane	BRL	12	U
Vinyl chloride	BRL	12	U
Chloroethane	BRL	12	U
Methylene Chloride	BRL	6	U
Acetone	BRL	12	U J
Carbon Disulfide	BRL	6	U J
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	12	U
1,1,1-Trichloroethane	1	6	J
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	12	U J
Bromodichloromethane	BRL	6	U

L. Kovacs
6/5/95

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Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-SBD**
Project # 01989-009-002-0000
Lab ID: **9504G211-012**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U J
4-Methyl-2-pentanone	BRL	12	U J
2-Hexanone	BRL	12	U J
Tetrachloroethene	2	6	J ✗ uc
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

L. Korowka
6/5/95

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Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Acrolein	BRL	580	U
Acrylonitrile	BRL	120	U
Trichlorofluoromethane	BRL	12	U
Dichlorodifluoromethane	BRL	23	U J
Acetonitrile	BRL	120	U J
Iodomethane	BRL	12	U J
Propionitrile (Ethyl Cyanide)	BRL	58	U
3-Chloropropene	BRL	23	U
Methacrylonitrile	BRL	23	U J
Dibromomethane	BRL	12	U
Isobutyl alcohol	BRL	2300	U J
1,2-Dibromoethane	BRL	23	U
1,1,1,2-Tetrachloroethane	BRL	12	U J
1,2,3-Trichloropropane	BRL	12	U J
trans-1,4-Dichloro-2-butene	BRL	23	U J
1,2-Dibromo-3-chloropropane	BRL	23	U J
2-Chloro-1,3-Butadiene	BRL	120	U

L. Korovka
6/15/95

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Vernon Hills, IL 60061

Attn: Mr. Carlos Serna

Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-SBD**
Project # 01989-009-002-0000
Lab ID: **9504G211-012**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag	
Methylmethacrylate	BRL	23	U	J
Ethylmethacrylate	BRL	23	U	J
Pentachloroethane	BRL	23	U	J

L. Kovalka 6/5/95

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Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-SBD**
Project # 01989-009-002-0000
Lab ID: **9504G211-012**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

Tentatively Identified Compounds

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3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG06-SBS-DP**
Project # 01989-009-002-0000
Lab ID: **9504G211-013**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	11	U
Bromomethane	BRL	11	U
Vinyl chloride	BRL	11	U
Chloroethane	BRL	11	U
Methylene Chloride	BRL	6	U
Acetone	22	11	~~B~~ U J
Carbon Disulfide	BRL	6	U J
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	11	U
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	11	U J
Bromodichloromethane	BRL	6	U

R. Kovoka
6/5/95

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Project # 01989-009-002-0000
Lab ID: **9504G211-013**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	6	U
cis-1,3-Dichloropropene	BRL	6	U
Trichloroethene	BRL	6	U
Dibromochloromethane	BRL	6	U
1,1,2-Trichloroethane	BRL	6	U
Benzene	BRL	6	U
trans-1,3-Dichloropropene	BRL	6	U
Bromoform	BRL	6	U J
4-Methyl-2-pentanone	BRL	11	U J
2-Hexanone	BRL	11	U J
Tetrachloroethene	BRL	6	U J
1,1,2,2-Tetrachloroethane	BRL	6	U
Toluene	BRL	6	U
Chlorobenzene	BRL	6	U
Ethylbenzene	BRL	6	U
Styrene	BRL	6	U
Xylene (total)	BRL	6	U

L. Kowalska
6/5/95

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RE: TC2-BG06-SBS-DP
Project # 01989-009-002-0000
Lab ID: 9504G211-013
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Acrolein	BRL	570	U
Acrylonitrile	BRL	110	U
Trichlorofluoromethane	BRL	11	U
Dichlorodifluoromethane	BRL	23	U J
Acetonitrile	BRL	110	U J
Iodomethane	BRL	11	U J
Propionitrile (Ethyl Cyanide)	BRL	57	U
3-Chloropropene	BRL	23	U
Methacrylonitrile	BRL	23	U J
Dibromomethane	BRL	11	U
Isobutyl alcohol	BRL	2300	U J
1,2-Dibromoethane	BRL	23	U
1,1,1,2-Tetrachloroethane	BRL	11	U J
1,2,3-Trichloropropane	BRL	11	U J
trans-1,4-Dichloro-2-butene	BRL	23	U J
1,2-Dibromo-3-chloropropane	BRL	23	U J
2-Chloro-1,3-Butadiene	BRL	110	U

L. Korolka
6/5/95

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RE: **TC2-BG06-SBS-DP**
Project # 01989-009-002-0000
Lab ID: **9504G211-013**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Methylmethacrylate	BRL	23	U J
Ethylmethacrylate	BRL	23	U
Pentachloroethane	BRL	23	U

K. Krobka 6/5/95

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Project # 01989-009-002-0000
Lab ID: **9504G211-013**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

Tentatively Identified Compounds

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Attn: Mr. Carlos Serna

Date: Tuesday May 2nd, 1995

RE: **TC2-BG07-SBS**
Project # 01989-009-002-0000
Lab ID: **9504G211-014**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	11	U
Bromomethane	BRL	11	U
Vinyl chloride	BRL	11	U
Chloroethane	BRL	11	U
Methylene Chloride	BRL	6	U
Acetone	BRL	11	U J
Carbon Disulfide	BRL	6	U
1,1-Dichloroethene	BRL	6	U
1,1-Dichloroethane	BRL	6	U
1,2-Dichloroethene (total)	BRL	6	U
Chloroform	BRL	6	U
1,2-Dichloroethane	BRL	6	U
2-Butanone	BRL	11	U J
1,1,1-Trichloroethane	BRL	6	U
Carbon Tetrachloride	BRL	6	U
Vinyl acetate	BRL	11	U
Bromodichloromethane	BRL	6	U

L Lovorra
6/5/95

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Attn: Mr. Carlos Serna

Date: Tuesday May 2nd, 1995

RE: **TC2-BG07-SBS**
Project # 01989-009-002-0000
Lab ID: **9504G211-014**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag	
1,2-Dichloropropane	BRL	6	U	
cis-1,3-Dichloropropene	BRL	6	U	
Trichloroethene	BRL	6	U	
Dibromochloromethane	BRL	6	U	
1,1,2-Trichloroethane	BRL	6	U	
Benzene	BRL	6	U	
trans-1,3-Dichloropropene	BRL	6	U	
Bromoform	BRL	6	U	
4-Methyl-2-pentanone	BRL	11	U	J
2-Hexanone	BRL	11	U	J
Tetrachloroethene	BRL	6	U	
1,1,2,2-Tetrachloroethane	BRL	6	U	
Toluene	BRL	6	U	
Chlorobenzene	BRL	6	U	
Ethylbenzene	BRL	6	U	
Styrene	BRL	6	U	
Xylene (total)	BRL	6	U	

L. Kordera
6/5/95

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RE: **TC2-BG07-SBS**
Project # 01989-009-002-0000
Lab ID: **9504G211-014**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Acrolein	BRL	570	U
Acrylonitrile	BRL	110	U
Trichlorofluoromethane	BRL	11	U
Dichlorodifluoromethane	BRL	23	U
Acetonitrile	BRL	110	U
Iodomethane	BRL	11	U
Propionitrile (Ethyl Cyanide)	BRL	57	U J
3-Chloropropene	BRL	23	U
Methacrylonitrile	BRL	23	U
Dibromomethane	BRL	11	U
Isobutyl alcohol	BRL	2300	U
1,2-Dibromoethane	BRL	23	U
1,1,1,2-Tetrachloroethane	BRL	11	U
1,2,3-Trichloropropane	BRL	11	U
trans-1,4-Dichloro-2-butene	BRL	23	U
1,2-Dibromo-3-chloropropane	BRL	23	U
2-Chloro-1,3-Butadiene	BRL	110	U

L. Korobka
6/5/95

Weston Environmental Metrics, Inc.
2417 Bond Street
University Park, Illinois 60466-3182
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533
Fax: (708) 534-5211

To: **Techalloy**
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG07-SBS**
Project # 01989-009-002-0000
Lab ID: **9504G211-014**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Methylmethacrylate	BRL	23	U
Ethylmethacrylate	BRL	23	U
Pentachloroethane	BRL	23	U J

L Koubek 6/5/95

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Project # 01989-009-002-0000
Lab ID: **9504G211-014**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

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Attn: **Mr. Carlos Serna**

Date: Tuesday May 2nd, 1995

RE: **TC2-BG07-SBD**
Project # 01989-009-002-0000
Lab ID: **9504G211-015**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Chloromethane	BRL	10	U
Bromomethane	BRL	10	U
Vinyl chloride	BRL	10	U
Chloroethane	BRL	10	U
Methylene Chloride	BRL	5	U
Acetone	BRL	10	U J
Carbon Disulfide	BRL	5	U
1,1-Dichloroethene	BRL	5	U
1,1-Dichloroethane	BRL	5	U
1,2-Dichloroethene (total)	BRL	5	U
Chloroform	BRL	5	U
1,2-Dichloroethane	BRL	5	U
2-Butanone	BRL	10	U J
1,1,1-Trichloroethane	BRL	5	U
Carbon Tetrachloride	BRL	5	U
Vinyl acetate	BRL	10	U
Bromodichloromethane	BRL	5	U

L Kordba
6/5/95

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Project # 01989-009-002-0000
Lab ID: **9504G211-015**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
1,2-Dichloropropane	BRL	5	U
cis-1,3-Dichloropropene	BRL	5	U
Trichloroethene	BRL	5	U
Dibromochloromethane	BRL	5	U
1,1,2-Trichloroethane	BRL	5	U
Benzene	BRL	5	U
trans-1,3-Dichloropropene	BRL	5	U
Bromoform	BRL	5	U
4-Methyl-2-pentanone	BRL	10	U J
2-Hexanone	BRL	10	U J
Tetrachloroethene	BRL	5	U
1,1,2,2-Tetrachloroethane	BRL	5	U
Toluene	BRL	5	U
Chlorobenzene	BRL	5	U
Ethylbenzene	BRL	5	U
Styrene	BRL	5	U
Xylene (total)	BRL	5	U

L. Kozobka
6/5/95

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Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Acrolein	BRL	520	U
Acrylonitrile	BRL	100	U
Trichlorofluoromethane	BRL	10	U
Dichlorodifluoromethane	BRL	21	U
Acetonitrile	BRL	100	U
Iodomethane	BRL	10	U
Propionitrile (Ethyl Cyanide)	BRL	52	U J
3-Chloropropene	BRL	21	U
Methacrylonitrile	BRL	21	U
Dibromomethane	BRL	10	U
Isobutyl alcohol	BRL	2100	U
1,2-Dibromoethane	BRL	21	U
1,1,1,2-Tetrachloroethane	BRL	10	U
1,2,3-Trichloropropane	BRL	10	U
trans-1,4-Dichloro-2-butene	BRL	21	U
1,2-Dibromo-3-chloropropane	BRL	21	U
2-Chloro-1,3-Butadiene	BRL	100	U

L. Kovalka
6/5/95

WESTON
MANAGERS DESIGNERS/CONSULTANTS

Weston Environmental Metrics, Inc.
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Sample Date: 04/09/95
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Units: UG/KG

VOLATILES BY GC/MS, APPENDIX IX LIST

Volatile Compound	Result	Reporting Limit	Flag
Methylmethacrylate	BRL	21	U
Ethylmethacrylate	BRL	21	U
Pentachloroethane	BRL	21	U J

L. Korobka 6/5/95

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Project # 01989-009-002-0000
Lab ID: **9504G211-015**
Sample Date: 04/09/95
Date Received: 04/10/95
Units: UG/KG

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

I. CASE NARRATIVE

Weston Environmental Metrics, Inc.
GC/MS Case Narrative

Techalloy
RFW# 9504G211
VOA DATA:

1. All initial analyses were performed within the Method hold times.

2. All Method Blank target compounds were below Contract Required Quantitation Limits (CRQL). (**or five times the CRQL for the compounds acetone, methylene chloride, and 2-butanone).

3. All LCS (Method Blank Spike) recoveries and %RPD values in the volatile analyses were within Method QC limits.

4. Matrix Spike analyses were conducted on samples 9504G211-001 and 015. All recoveries and %RPD values were within Method QC limits except for one low recovery for the compounds 1,1-dichloroethene (55%) and trichloroethene (70%) due to a sample matrix effect. This resulted in a high %RPD value for the compound 1,1-dichloroethene (51%).

5. All surrogate recoveries in the volatile analyses were within Method QC limits except for samples 001 and 009. Each of these samples was reanalyzed at a necessary dilution and the surrogates were good. This indicates a matrix effect and therefore both sets of data have been included.

6. All analyses were performed following SW846 Method 8240 and the data package has been prepared to comply with the USEPA CLP protocol OLM01.8 SOW 3/90. All of the internal standard areas and retention times have been labeled by name.

7. All of the samples were analyzed as either low level soils or waters and therefore normal detection limits apply. Secondary dilutions were necessary on samples 001 (1/10 & 1/25), 005 (1/5), and 009 (1/10 & 1/25) in order to accurately quantitate several compounds. The soil samples are reported on a dry weight basis.

Jeff A. Kaczinski
GC/MS Section Manager

5-2-95
Date

ORGANIC GLOSSARY OF DATA QUALIFIERS AND ABBREVIATIONS

Organic Data Qualifiers

A	TIC is a suspected aldol-condensation product
B	Compound was found in the blank and the sample
C	Pesticide identification was confirmed by GC/MS
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis
E	Concentration exceeds the instrument calibration range and was subsequently diluted
I	Appears on the "results spreadsheet" and "quant reports" to indicate an interference, or it appears on pesticide Form 8 to indicate an instrument blank without a surrogate
J	Result is an estimated value below the reporting limit or a tenatively identified compound (TIC)
NQ	Result was qualitatively confirmed, but not quantified
P	The percent difference between the results from two GC columns is greater than 25%, the lower of the two values is reported
SP	Blank Spike, Blank Spike Duplicate, Matrix Spike or Matrix Spike Duplicate
T	Compound was found in the TCLP extraction blank and the sample
U	Compound was not detected at or above the reporting limit
X	Other specific flags may be required to properly qualify the result
*	QC result was outside the laboratory control limits

Abbreviations

BS	Blank Spike analysis was conducted on reagent grade water or a matrix free from the analyte(s) of interest
BSD	Blank Spike Duplicate
BRL	Below Reporting Limit
Batch	Identifies a specific extraction, digestion or preparation set (equivalent to Prep Batch)
CD	Calculation Factor used by the laboratory's Information Management System (LIMS)
Contract	Contract Laboratory Identification Code
DF	Dilution Factor
DL	Appears in the sample ID to indicate a secondary dilution
LCS/LC	Denotes Laboratory Control Standard
LAB ID	The full 12 character WESTON Laboratory Identification Number (equivalent to RFW#)
MB	Method Blank or (PB) preparation blank
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
NR	Not Required
NS	Not Spiked
RE	Appears in the sample ID to indicate a Re-analysis
REP	Replicate analysis
Reprep	Sample was reprepared and then reanalyzed
RFW#	The full 12 character WESTON Laboratory Identification Number (equivalent to LAB ID)
RFW Lot	The first 8 characters of the RFW#
RPD	Relative Percent Difference of duplicate analyses
RRF	Relative Response Factor
RT	Retention Time/Retention Time Window
WO#	Work Order No. Weston Code used to define a specific clinet, job phase and task

NOTES:

- One or a combination of these data qualifiers and abbreviations may appear in the analytical report.
- Soil, sediment and sludge results are reported on a dry weight basis except when analyzed for landfill disposal or incineration parameters. All other results on a solid matrix are reported on an "as received" basis unless noted differently.
- Reporting limits are adjusted for preparation sample size, sample dilutions, and sample moisture content if analyzed on a dry weight basis.

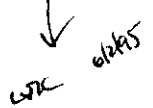
II. QC Summary

Weston Environmental Metrics, Inc. (Gulf Coast)
VOLATILES BY GC/MS, APPENDIX IX LIST

RFW Batch Number: 9504G211 Client: Techalloy Work Order: 01989-009-002-0 Report Date: 04/30/95 22:44 Page: 1a

	Cust ID:	TC2-BG06-GWS	TC2-BG06-GWS	TC2-BG06-GWS	TC2-BG06-GWS	TC2-BG06-GWS	TC2-BG06-GWD
Sample Information	RFW#:	001	001 DL	001 DL	001 MS	001 MSD	003
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
	D.F.:	1.0	10.0	25.0	1.0	1.0	1.0
	Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Surrogate Recovery	Toluene-d8	102 %	101 %	96 %	98 %	106 %	106 %
	4-Bromofluorobenzene	95 %	99 %	92 %	94 %	101 %	97 %
	1,2-Dichloroethane-d4	121 * %	109 %	91 %	133 * %	139 * %	114 %
		fl	fl	fl	fl	fl	fl
Chloromethane		10 UJ	NA	NA	10 U	10 U	10 U
Bromomethane		10 U	NA	NA	10 U	10 U	10 U
Vinyl chloride		10 U	NA	NA	10 U	10 U	10 U
Chloroethane		10 U	NA	NA	10 U	10 U	10 U
Methylene Chloride		5 U	NA	NA	5 U	5 U	5 U
Acetone		10 U	NA	NA	10 U	10 U	10 U
Carbon Disulfide		5 U	NA	NA	5 U	5 U	5 U
1,1-Dichloroethene		140	NA	NA	55 * %	93 %	5 U
1,1-Dichloroethane		E	300	NA	E	E	13
1,2-Dichloroethene (total)		160	NA	NA	150	160	8
Chloroform		5 U	NA	NA	5 U	5 U	5 U
1,2-Dichloroethane		5 U	NA	NA	5 U	5 U	5 U
2-Butanone		10 U	NA	NA	10 U	10 U	10 U
1,1,1-Trichloroethane		E	E	2200	E	E	160
Carbon Tetrachloride		5 U	NA	NA	5 U	5 U	5 U
Vinyl acetate		10 U	NA	NA	10 U	10 U	10 U
Bromodichloromethane		5 U	NA	NA	5 U	5 U	5 U
1,2-Dichloropropane		5 U	NA	NA	5 U	5 U	5 U
cis-1,3-Dichloropropene		5 U	NA	NA	5 U	5 U	5 U
Trichloroethene		52	NA	NA	70 * %	75 %	31
Dibromochloromethane		5 U	NA	NA	5 U	5 U	5 U
1,1,2-Trichloroethane		5 U	NA	NA	5 U	5 U	5 U
Benzene		5 U	NA	NA	106 %	110 %	5 U
trans-1,3-Dichloropropene		5 U	NA	NA	5 U	5 U	5 U
Bromoform		5 U	NA	NA	5 U	5 U	5 U
4-Methyl-2-pentanone		10 U	NA	NA	10 U	10 U	10 U
2-Hexanone		10 U	NA	NA	10 U	10 U	10 U
Tetrachloroethene		73	NA	NA	71	75	30
1,1,2,2-Tetrachloroethane		5 U	NA	NA	5 U	5 U	5 U

*= Outside of EPA CLP QC limits.



	Cust ID:	TC2-BG06-GWS	TC2-BG06-GWS	TC2-BG06-GWS	TC2-BG06-GWS	TC2-BG06-GWS	TC2-BG06-GWD
	RFW#:	001	001 DL	001 DL	001 MS	001 MSD	003
Toluene		5 U J	NA	NA	95 %	101 %	5 U
Chlorobenzene		5 U	NA	NA	92 %	95 %	5 U
Ethylbenzene		5 U	NA	NA	5 U	5 U	5 U
Styrene		5 U	NA	NA	5 U	5 U	5 U
Xylene (total)		5 U	NA	NA	5 U	5 U	5 U
Acrolein		500 U	NA	NA	500 U	500 U	500 U
Acrylonitrile		100 U	NA	NA	100 U	100 U	100 U
Trichlorofluoromethane		10 U	NA	NA	10 U	10 U	10 U
Dichlorodifluoromethane		20 U	NA	NA	20 U	20 U	20 U
Acetonitrile		100 U	NA	NA	100 U	100 U	100 U
Iodomethane		10 U	NA	NA	10 U	10 U	10 U
Propionitrile (Ethyl Cyanide)		50 U	NA	NA	50 U	50 U	50 U
3-Chloropropene		20 U	NA	NA	20 U	20 U	20 U
Methacrylonitrile		20 U	NA	NA	20 U	20 U	20 U
Dibromomethane		10 U	NA	NA	10 U	10 U	10 U
Isobutyl alcohol		2000 U	NA	NA	2000 U	2000 U	2000 U
1,2-Dibromoethane		20 U	NA	NA	20 U	20 U	20 U
1,1,1,2-Tetrachloroethane		10 U	NA	NA	10 U	10 U	10 U
1,2,3-Trichloropropane		10 U	NA	NA	10 U	10 U	10 U
trans-1,4-Dichloro-2-butene		20 U	NA	NA	20 U	20 U	20 U
1,2-Dibromo-3-chloropropane		20 U	NA	NA	20 U	20 U	20 U
2-Chloro-1,3-Butadiene		100 U	NA	NA	100 U	100 U	100 U
Methylmethacrylate		20 U	NA	NA	20 U	20 U	20 U
Ethylmethacrylate		20 U	NA	NA	20 U	20 U	20 U
Pentachloroethane		20 U	NA	NA	20 U	20 U	20 U

*= Outside of EPA CLP QC limits.

LJK
6/21/95

Weston Environmental Metrics, Inc. (Gulf Coast)
VOLATILES BY GC/MS, APPENDIX IX LIST

RFW Batch Number: 9504G211 Client: Techalloy Work Order: 01989-009-002-0 Report Date: 04/30/95 22:44 Page: 2a

Sample Information	Cust ID:	TC2-BG07-GWS	TC2-BG07-GWS	TC2-BG07-GWD	TC2-BG06-GWS -DP	TC2-BG06-GWS -DP	TC2-BG06-GWS -DP
	RFW#:	005	005 DL	007	009	009 DL	009 DL
	Matrix:	WATER	WATER	WATER	WATER	WATER	WATER
	D.F.:	1.0	5.0	1.0	1.0	10.0	25.0
	Units:	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Surrogate Recovery	Toluene-d8	98 %	98 %	99 %	105 %	97 %	95 %
	4-Bromofluorobenzene	95 %	98 %	95 %	98 %	93 %	93 %
	1,2-Dichloroethane-d4	111 % fl	111 % fl	108 % fl	121 * % fl	107 % fl	92 % fl
Chloromethane		10 U	NA	10 U	10 U J	NA	NA
Bromomethane		10 U	NA	10 U	10 U	NA	NA
Vinyl chloride		10 U	NA	10 U	10 U	NA	NA
Chloroethane		10 U	NA	10 U	10 U	NA	NA
Methylene Chloride		5 U	NA	5 U	5 U	NA	NA
Acetone		10 U	NA	10 U	10 U	NA	NA
Carbon Disulfide		5 U	NA	5 U	5 U	NA	NA
1,1-Dichloroethene		5 U	NA	5 U	140	NA	NA
1,1-Dichloroethane		8	NA	5 U	E	300	NA
1,2-Dichloroethene (total)		11	NA	5 U	160	NA	NA
Chloroform		5 U	NA	5 U	5 U	NA	NA
1,2-Dichloroethane		5 U	NA	5 U	5 U	NA	NA
2-Butanone		10 U	NA	10 U	10 U	NA	NA
1,1,1-Trichloroethane		180	NA	16	E	E	2300
Carbon Tetrachloride		5 U	NA	5 U	5 U	NA	NA
Vinyl acetate		10 U	NA	10 U	10 U	NA	NA
Bromodichloromethane		5 U	NA	5 U	5 U	NA	NA
1,2-Dichloropropane		5 U	NA	5 U	5 U	NA	NA
cis-1,3-Dichloropropene		5 U	NA	5 U	5 U	NA	NA
Trichloroethene		26	NA	7	52	NA	NA
Dibromochloromethane		5 U	NA	5 U	5 U	NA	NA
1,1,2-Trichloroethane		5 U	NA	5 U	5 U	NA	NA
Benzene		5 U	NA	5 U	5 U	NA	NA
trans-1,3-Dichloropropene		5 U	NA	5 U	5 U	NA	NA
Bromoform		5 U	NA	5 U	5 U	NA	NA
4-Methyl-2-pentanone		10 U	NA	10 U	10 U	NA	NA
2-Hexanone		10 U	NA	10 U	10 U	NA	NA
Tetrachloroethene		E	590	30	71	NA	NA
1,1,2,2-Tetrachloroethane		5 U	NA	5 U	5 U	NA	NA

*= Outside of EPA CLP QC limits.

GPK 5/2/95

	Cust ID:	TC2-BG07-GWS	TC2-BG07-GWS	TC2-BG07-GWD	TC2-BG06-GWS -DP	TC2-BG06-GWS -DP	TC2-BG06-GWS -DP
	RFW#:	005	005 DL	007	009	009 DL	009 DL
Toluene		5 U	NA	5 U	5 U	NA	NA
Chlorobenzene		5 U	NA	5 U	5 U	NA	NA
Ethylbenzene		5 U	NA	5 U	5 U	NA	NA
Styrene		5 U	NA	5 U	5 U	NA	NA
Xylene (total)		5 U	NA	5 U	5 U	NA	NA
Acrolein		500 U	NA	500 U	500 U	NA	NA
Acrylonitrile		100 U	NA	100 U	100 U	NA	NA
Trichlorofluoromethane		10 U	NA	10 U	10 U	NA	NA
Dichlorodifluoromethane		20 U	NA	20 U	20 U	NA	NA
Acetonitrile		100 U	NA	100 U	100 U	NA	NA
Iodomethane		10 U	NA	10 U	10 U	NA	NA
Propionitrile (Ethyl Cyanide)		50 U	NA	50 U	50 U	NA	NA
3-Chloropropene		20 U	NA	20 U	20 U	NA	NA
Methacrylonitrile		20 U	NA	20 U	20 U	NA	NA
Dibromomethane		10 U	NA	10 U	10 U	NA	NA
Isobutyl alcohol		2000 U	NA	2000 U	2000 U	NA	NA
1,2-Dibromoethane		20 U	NA	20 U	20 U	NA	NA
1,1,1,2-Tetrachloroethane		10 U	NA	10 U	10 U	NA	NA
1,2,3-Trichloropropane		10 U	NA	10 U	10 U	NA	NA
trans-1,4-Dichloro-2-butene		20 U	NA	20 U	20 U	NA	NA
1,2-Dibromo-3-chloropropane		20 U	NA	20 U	20 U	NA	NA
2-Chloro-1,3-Butadiene		100 U	NA	100 U	100 U	NA	NA
Methylmethacrylate		20 U	NA	20 U	20 U	NA	NA
Ethylmethacrylate		20 U	NA	20 U	20 U	NA	NA
Pentachloroethane		20 U	NA	20 U	20 U	NA	NA

*= Outside of EPA CLP QC limits.

Weston Environmental Metrics, Inc. (Gulf Coast)
VOLATILES BY GC/MS, APPENDIX IX LIST

RFW Batch Number: 9504G211 Client: Techalloy Work Order: 01989-009-002-0 Report Date: 04/30/95 22:44 Page: 3a

	Cust ID:	TC2-BG06-SBS		TC2-BG06-SBD		TC2-BG06-SBS -DP		TC2-BG07-SBS		TC2-BG07-SBD		TC2-BG07-SBD
Sample Information	RFW#:	011		012		013		014		015		015 MS
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL
	D.F.:	1.0		1.0		1.0		1.0		1.0		1.0
	Units:	UG/KG		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG
	Toluene-d8	102	%	101	%	97	%	103	%	102	%	100 %
Surrogate Recovery	4-Bromofluorobenzene	98	%	95	%	96	%	94	%	95	%	93 %
	1,2-Dichloroethane-d4	0	%	105	%	106	%	110	%	112	%	108 %
			fl		fl		fl		fl		fl	fl
Chloromethane		12	U R	12	U	11	U	11	U	10	U	10 U
Bromomethane		12	U	12	U	11	U	11	U	10	U	10 U
Vinyl chloride		12	U	12	U	11	U	11	U	10	U	10 U
Chloroethane		12	U	12	U	11	U	11	U	10	U	10 U
Methylene Chloride		6	U	6	U	6	U	6	U	5	U	5 U
Acetone		12	U	12	U	22	~~B~~ U	11	U	10	U	10 U
Carbon Disulfide		6	U	6	U	6	U	6	U	5	U	5 U
1,1-Dichloroethene		6	U	6	U	6	U	6	U	5	U	102 %
1,1-Dichloroethane		6	U	6	U	6	U	6	U	5	U	5 U
1,2-Dichloroethene (total)		6	U	6	U	6	U	6	U	5	U	5 U
Chloroform		6	U	6	U	6	U	6	U	5	U	5 U
1,2-Dichloroethane		6	U	6	U	6	U	6	U	5	U	5 U
2-Butanone		12	U	12	U	11	U	11	U	10	U	10 U
1,1,1-Trichloroethane		2	J	1	J	6	U	6	U	5	U	5 U
Carbon Tetrachloride		6	U R	6	U	6	U	6	U	5	U	5 U
Vinyl acetate		12	U	12	U	11	U	11	U	10	U	10 U
Bromodichloromethane		6	U	6	U	6	U	6	U	5	U	5 U
1,2-Dichloropropane		6	U	6	U	6	U	6	U	5	U	5 U
cis-1,3-Dichloropropene		6	U	6	U	6	U	6	U	5	U	5 U
Trichloroethene		6	U	6	U	6	U	6	U	5	U	88 %
Dibromochloromethane		6	U	6	U	6	U	6	U	5	U	5 U
1,1,2-Trichloroethane		6	U	6	U	6	U	6	U	5	U	5 U
Benzene		1	J	6	U	6	U	6	U	5	U	100 %
trans-1,3-Dichloropropene		6	U	6	U	6	U	6	U	5	U	5 U
Bromoform		6	U	6	U	6	U	6	U	5	U	5 U
4-Methyl-2-pentanone		12	U	12	U	11	U	11	U	10	U	10 U
2-Hexanone		12	U	12	U	11	U	11	U	10	U	10 U
Tetrachloroethene		6	U	2	J	6	U	6	U	5	U	5 U
1,1,2,2-Tetrachloroethane		6	U	6	U	6	U	6	U	5	U	5 U

*= Outside of EPA CLP QC limits.

Cust ID:	TC2-BG06-SBS	TC2-BG06-SBD	TC2-BG06-SBS -DP	TC2-BG07-SBS	TC2-BG07-SBD	TC2-BG07-SBD
RFW#:	011	012	013	014	015	015 MS
Toluene	6 U	6 U	6 U	6 U	5 U	101 %
Chlorobenzene	6 U	6 U	6 U	6 U	5 U	94 %
Ethylbenzene	6 U	6 U	6 U	6 U	5 U	5 U
Styrene	6 U	6 U	6 U	6 U	5 U	5 U
Xylene (total)	6 U	6 U	6 U	6 U	5 U	5 U
Acrolein	580 U	580 U	570 U	570 U	520 U	520 U
Acrylonitrile	120 U	120 U	110 U	110 U	100 U	100 U
Trichlorofluoromethane	12 U	12 U	11 U	11 U	10 U	10 U
Dichlorodifluoromethane	23 U	23 U	23 U	23 U	21 U	21 U
Acetonitrile	120 U	120 U	110 U	110 U	100 U	100 U
Iodomethane	12 U	12 U	11 U	11 U	10 U	10 U
Propionitrile (Ethyl Cyanide)	58 U	58 U	57 U	57 U	52 U	52 U
3-Chloropropene	23 U	23 U	23 U	23 U	21 U	21 U
Methacrylonitrile	23 U	23 U	23 U	23 U	21 U	21 U
Dibromomethane	12 U	12 U	11 U	11 U	10 U	10 U
Isobutyl alcohol	2300 U	2300 U	2300 U	2300 U	2100 U	2100 U
1,2-Dibromoethane	23 U	23 U	23 U	23 U	21 U	21 U
1,1,1,2-Tetrachloroethane	12 U	12 U	11 U	11 U	10 U	10 U
1,2,3-Trichloropropane	12 U	12 U	11 U	11 U	10 U	10 U
trans-1,4-Dichloro-2-butene	23 U	23 U	23 U	23 U	21 U	21 U
1,2-Dibromo-3-chloropropane	23 U	23 U	23 U	23 U	21 U	21 U
2-Chloro-1,3-Butadiene	120 U	120 U	110 U	110 U	100 U	100 U
Methylmethacrylate	23 U	23 U	23 U	23 U	21 U	21 U
Ethylmethacrylate	23 U	23 U	23 U	23 U	21 U	21 U
Pentachloroethane	23 U	23 U	23 U	23 U	21 U	21 U

*= Outside of EPA CLP QC limits.

Weston Environmental Metrics, Inc. (Gulf Coast)
VOLATILES BY GC/MS, APPENDIX IX LIST

RFW Batch Number: 9504G211 Client: Techalloy Work Order: 01989-009-002-0 Report Date: 04/30/95 22:44 Page: 4a

	Cust ID:	TC2-BG07-SBD		VBLK		VBLK BS		VBLK		VBLK BS		VBLK	
Sample Information	RFW#:	015 MSD		95GVB090-MB1		95GVB090-MB1		95GVE116-MB1		95GVE116-MB1		95GVB093-MB1	
	Matrix:	SOIL		WATER		WATER		WATER		WATER		WATER	
	D.F.:	1.0		1.0		1.0		1.0		1.0		1.0	
	Units:	UG/KG		UG/L		UG/L		UG/L		UG/L		UG/L	
Surrogate Recovery	Toluene-d8	104	%	97	%	105	%	97	%	97	%	99	%
	4-Bromofluorobenzene	94	%	93	%	94	%	93	%	93	%	95	%
	1,2-Dichloroethane-d4	111	%	105	%	110	%	96	%	92	%	104	%
Chloromethane		10	U	10	U	10	U	10	U	10	U	10	U
Bromomethane		10	U	10	U	10	U	10	U	10	U	10	U
Vinyl chloride		10	U	10	U	10	U	10	U	10	U	10	U
Chloroethane		10	U	10	U	10	U	10	U	10	U	10	U
Methylene Chloride		5	U	5	U	5	U	5	U	5	U	5	U
Acetone		10	U	10	U	10	U	10	U	10	U	10	U
Carbon Disulfide		5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethene		96	%	5	U	93	%	5	U	82	%	5	U
1,1-Dichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethene (total)		5	U	5	U	5	U	5	U	5	U	5	U
Chloroform		5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
2-Butanone		10	U	10	U	10	U	10	U	10	U	10	U
1,1,1-Trichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
Carbon Tetrachloride		5	U	5	U	5	U	5	U	5	U	5	U
Vinyl acetate		10	U	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane		5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane		5	U	5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene		5	U	5	U	5	U	5	U	5	U	5	U
Trichloroethene		82	%	5	U	90	%	5	U	89	%	5	U
Dibromochloromethane		5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
Benzene		97	%	5	U	106	%	5	U	97	%	5	U
trans-1,3-Dichloropropene		5	U	5	U	5	U	5	U	5	U	5	U
Bromoform		5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone		10	U	10	U	10	U	10	U	10	U	10	U
2-Hexanone		10	U	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene		5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane		5	U	5	U	5	U	5	U	5	U	5	U

*= Outside of EPA CLP QC limits.

	Cust ID:	TC2-BG07-SBD	VBLK		VBLK BS		VBLK		VBLK BS		VBLK	
	RFW#:	015 MSD	95GVB090-MB1		95GVB090-MB1		95GVE116-MB1		95GVE116-MB1		95GVB093-MB1	
Toluene		96 %	5	U	101	%	5	U	95	%	5	U
Chlorobenzene		90 %	5	U	96	%	5	U	93	%	5	U
Ethylbenzene		5	5	U	5	U	5	U	5	U	5	U
Styrene		5	5	U	5	U	5	U	5	U	5	U
Xylene (total)		5	5	U	5	U	5	U	5	U	5	U
Acrolein		520	500	U	500	U	500	U	500	U	500	U
Acrylonitrile		100	100	U	100	U	100	U	100	U	100	U
Trichlorofluoromethane		10	10	U	10	U	10	U	10	U	10	U
Dichlorodifluoromethane		21	20	U	20	U	20	U	20	U	20	U
Acetonitrile		100	100	U	100	U	100	U	100	U	100	U
Iodomethane		10	10	U	10	U	10	U	10	U	10	U
Propionitrile (Ethyl Cyanide)		52	50	U	50	U	50	U	50	U	50	U
3-Chloropropene		21	20	U	20	U	20	U	20	U	20	U
Methacrylonitrile		21	20	U	20	U	20	U	20	U	20	U
Dibromomethane		10	10	U	10	U	10	U	10	U	10	U
Isobutyl alcohol		2100	2000	U	2000	U	2000	U	2000	U	2000	U
1,2-Dibromoethane		21	20	U	20	U	20	U	20	U	20	U
1,1,1,2-Tetrachloroethane		10	10	U	10	U	10	U	10	U	10	U
1,2,3-Trichloropropane		10	10	U	10	U	10	U	10	U	10	U
trans-1,4-Dichloro-2-butene		21	20	U	20	U	20	U	20	U	20	U
1,2-Dibromo-3-chloropropane		21	20	U	20	U	20	U	20	U	20	U
2-Chloro-1,3-Butadiene		100	100	U	100	U	100	U	100	U	100	U
Methylmethacrylate		21	20	U	20	U	20	U	20	U	20	U
Ethylmethacrylate		21	20	U	20	U	20	U	20	U	20	U
Pentachloroethane		21	20	U	20	U	20	U	20	U	20	U

*= Outside of EPA CLP QC limits.

Weston Environmental Metrics, Inc. (Gulf Coast)
VOLATILES BY GC/MS, APPENDIX IX LIST

RFW Batch Number: 9504G211 Client: Techalloy Work Order: 01989-009-002-0 Report Date: 04/30/95 22:44 Page: 5a

	Cust ID:	VBLK BS		VBLK		VBLK BS		VBLK		VBLK BS		VBLK BSD	
Sample Information	RFW#:	95GVB093-MB1		95GVF103-MB1		95GVF103-MB1		95GVF109-MB1		95GVF109-MB1		95GVF109-MB1	
	Matrix:	WATER		SOIL		SOIL		SOIL		SOIL		SOIL	
	D.F.:	1.0		1.0		1.0		1.0		1.0		1.0	
	Units:	UG/L		UG/KG		UG/KG		UG/KG		UG/KG		UG/KG	
Surrogate Recovery	Toluene-d8	101	%	98	%	100	%	97	%	95	%	98	%
	4-Bromofluorobenzene	100	%	104	%	103	%	101	%	95	%	95	%
	1,2-Dichloroethane-d4	109	%	107	%	103	%	104	%	97	%	101	%
			f		f		f		f		f		f
Chloromethane		10	U	10	U	10	U	10	U	10	U	10	U
Bromomethane		10	U	10	U	10	U	10	U	10	U	10	U
Vinyl chloride		10	U	10	U	10	U	10	U	10	U	10	U
Chloroethane		10	U	10	U	10	U	10	U	10	U	10	U
Methylene Chloride		5	U	5	U	5	U	5	U	5	U	5	U
Acetone		10	U	13		7	JB	9	J	4	JB	5	JB
Carbon Disulfide		5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethene		109	%	5	U	98	%	5	U	92	%	96	%
1,1-Dichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethene (total)		5	U	5	U	5	U	5	U	5	U	5	U
Chloroform		5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
2-Butanone		10	U	10	U	10	U	10	U	10	U	10	U
1,1,1-Trichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
Carbon Tetrachloride		5	U	5	U	5	U	5	U	5	U	5	U
Vinyl acetate		10	U	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane		5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloropropane		5	U	5	U	5	U	5	U	5	U	5	U
cis-1,3-Dichloropropene		5	U	5	U	5	U	5	U	5	U	5	U
Trichloroethene		103	%	5	U	91	%	5	U	86	%	92	%
Dibromochloromethane		5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane		5	U	5	U	5	U	5	U	5	U	5	U
Benzene		117	%	5	U	101	%	5	U	95	%	102	%
trans-1,3-Dichloropropene		5	U	5	U	5	U	5	U	5	U	5	U
Bromoform		5	U	5	U	5	U	5	U	5	U	5	U
4-Methyl-2-pentanone		10	U	10	U	10	U	10	U	10	U	10	U
2-Hexanone		10	U	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene		5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane		5	U	5	U	5	U	5	U	5	U	5	U

*= Outside of EPA CLP QC limits.

Cust ID:	VBLK BS		VBLK		VBLK BS		VBLK		VBLK BS		VBLK BSD	
RFW#:	95GVB093-MB1		95GVF103-MB1		95GVF103-MB1		95GVF109-MB1		95GVF109-MB1		95GVF109-MB1	
Toluene	109	%	5	U	96	%	5	U	88	%	97	%
Chlorobenzene	112	%	5	U	95	%	5	U	92	%	99	%
Ethylbenzene	5	U	5	U	5	U	5	U	5	U	5	U
Styrene	5	U	5	U	5	U	5	U	5	U	5	U
Xylene (total)	5	U	5	U	5	U	5	U	5	U	5	U
Acrolein	500	U	500	U	500	U	500	U	500	U	500	U
Acrylonitrile	100	U	100	U	100	U	100	U	100	U	100	U
Trichlorofluoromethane	10	U	10	U	10	U	10	U	10	U	10	U
Dichlorodifluoromethane	20	U	20	U	20	U	20	U	20	U	20	U
Acetonitrile	100	U	100	U	100	U	100	U	100	U	100	U
Iodomethane	10	U	10	U	10	U	10	U	10	U	10	U
Propionitrile (Ethyl Cyanide)	50	U	50	U	50	U	50	U	50	U	50	U
3-Chloropropene	20	U	20	U	20	U	20	U	20	U	20	U
Methacrylonitrile	20	U	20	U	20	U	20	U	20	U	20	U
Dibromomethane	10	U	10	U	10	U	10	U	10	U	10	U
Isobutyl alcohol	2000	U	2000	U	2000	U	2000	U	2000	U	2000	U
1,2-Dibromoethane	20	U	20	U	20	U	20	U	20	U	20	U
1,1,1,2-Tetrachloroethane	10	U	10	U	10	U	10	U	10	U	10	U
1,2,3-Trichloropropane	10	U	10	U	10	U	10	U	10	U	10	U
trans-1,4-Dichloro-2-butene	20	U	20	U	20	U	20	U	20	U	20	U
1,2-Dibromo-3-chloropropane	20	U	20	U	20	U	20	U	20	U	20	U
2-Chloro-1,3-Butadiene	100	U	100	U	100	U	100	U	100	U	100	U
Methylmethacrylate	20	U	20	U	20	U	20	U	20	U	20	U
Ethylmethacrylate	20	U	20	U	20	U	20	U	20	U	20	U
Pentachloroethane	20	U	20	U	20	U	20	U	20	U	20	U

*= Outside of EPA CLP QC limits.

Weston Environmental Metrics, Inc. (Gulf Coast)
VOLATILES BY GC/MS, APPENDIX IX LIST

RFW Batch Number: 9504G211 Client: Techalloy Work Order: 01989-009-002-0 Report Date: 04/30/95 22:44 Page: 6a

	Cust ID:	VBLK		VBLK BS		VBLK BSD	
Sample Information	RFW#:	95GVB092-MB1		95GVB092-MB1		95GVB092-MB1	
	Matrix:	SOIL		SOIL		SOIL	
	D.F.:	1.0		1.0		1.0	
	Units:	UG/KG		UG/KG		UG/KG	
Surrogate Recovery	Toluene-d8	98	%	104	%	105	%
	4-Bromofluorobenzene	91	%	95	%	95	%
	1,2-Dichloroethane-d4	105	%	107	%	110	%
Chloromethane		10	U	10	U	10	U
Bromomethane		10	U	10	U	10	U
Vinyl chloride		10	U	10	U	10	U
Chloroethane		10	U	10	U	10	U
Methylene Chloride		5	U	5	U	5	U
Acetone		10	U	10	U	10	U
Carbon Disulfide		5	U	5	U	5	U
1,1-Dichloroethene		5	U	100	%	106	%
1,1-Dichloroethane		5	U	5	U	5	U
1,2-Dichloroethene (total)		5	U	5	U	5	U
Chloroform		5	U	5	U	5	U
1,2-Dichloroethane		5	U	5	U	5	U
2-Butanone		10	U	10	U	10	U
1,1,1-Trichloroethane		5	U	5	U	5	U
Carbon Tetrachloride		5	U	5	U	5	U
Vinyl acetate		10	U	10	U	10	U
Bromodichloromethane		5	U	5	U	5	U
1,2-Dichloropropane		5	U	5	U	5	U
cis-1,3-Dichloropropene		5	U	5	U	5	U
Trichloroethene		5	U	85	%	90	%
Dibromochloromethane		5	U	5	U	5	U
1,1,2-Trichloroethane		5	U	5	U	5	U
Benzene		5	U	96	%	103	%
trans-1,3-Dichloropropene		5	U	5	U	5	U
Bromoform		5	U	5	U	5	U
4-Methyl-2-pentanone		10	U	10	U	10	U
2-Hexanone		10	U	10	U	10	U
Tetrachloroethene		5	U	5	U	5	U
1,1,2,2-Tetrachloroethane		5	U	5	U	5	U

*= Outside of EPA CLP QC limits.

	Cust ID:	VBLK	VBLK BS	VBLK BSD
	RFW#:	95GVB092-MB1	95GVB092-MB1	95GVB092-MB1
Toluene		5 U	96 %	104 %
Chlorobenzene		5 U	91 %	97 %
Ethylbenzene		5 U	5 U	5 U
Styrene		5 U	5 U	5 U
Xylene (total)		5 U	5 U	5 U
Acrolein		500 U	500 U	500 U
Acrylonitrile		100 U	100 U	100 U
Trichlorofluoromethane		10 U	10 U	10 U
Dichlorodifluoromethane		20 U	20 U	20 U
Acetonitrile		100 U	100 U	100 U
Iodomethane		10 U	10 U	10 U
Propionitrile (Ethyl Cyanide)		50 U	50 U	50 U
3-Chloropropene		20 U	20 U	20 U
Methacrylonitrile		20 U	20 U	20 U
Dibromomethane		10 U	10 U	10 U
Isobutyl alcohol		2000 U	2000 U	2000 U
1,2-Dibromoethane		20 U	20 U	20 U
1,1,1,2-Tetrachloroethane		10 U	10 U	10 U
1,2,3-Trichloropropane		10 U	10 U	10 U
trans-1,4-Dichloro-2-butene		20 U	20 U	20 U
1,2-Dibromo-3-chloropropane		20 U	20 U	20 U
2-Chloro-1,3-Butadiene		100 U	100 U	100 U
Methylmethacrylate		20 U	20 U	20 U
Ethylmethacrylate		20 U	20 U	20 U
Pentachloroethane		20 U	20 U	20 U

*= Outside of EPA CLP QC limits.

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy

RFW Lot No.: 9504G211

	CLIENT SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	TC2-BG06-GWS	102	95	121 *		1
02	TC2-BG06-GWSDL	101	99	109		0
03	TC2-BG06-GWSDL	96	92	91		0
04	TC2-BG06-GWSMS	98	94	133 *		1
05	TC2-BG06-GWSMSD	106	101	139 *		1
06	TC2-BG06-GWD	106	97	114		0
07	TC2-BG07-GWS	98	95	111		0
08	TC2-BG07-GWSDL	98	98	111		0
09	TC2-BG07-GWD	99	95	108		0
10	TC2-BG06-GWS-DP	105	98	121 *		1
11	TC2-BG06-GWS-DPDL	97	93	107		0
12	TC2-BG06-GWS-DPDL	95	93	92		0
13	VBLKGVB090-MB1	97	93	105		0
14	VBLKGVB090-MB1 BS	105	94	110		0
15	VBLKGVE116-MB1	97	93	96		0
16	VBLKGVE116-MB1 BS	97	93	92		0
17	VBLKGVB093-MB1	99	95	104		0
18	VBLKGVB093-MB1 BS	101	100	109		0

	QC LIMITS
S1 (TOL) = Toluene-d8	(88-110)
S2 (BFB) = 4-Bromofluorobenzene	(86-115)
S3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogates diluted out

2B
SOIL VOLATILE SURROGATE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy

RFW Lot No.: 9504G211

	CLIENT SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	TC2-BG06-SBS	102	98			0
02	TC2-BG06-SBD	101	95	105		0
03	TC2-BG06-SBS-DP	97	96	106		0
04	TC2-BG07-SBS	103	94	110		0
05	TC2-BG07-SBD	102	95	112		0
06	TC2-BG07-SBDMS	100	93	108		0
07	TC2-BG07-SBDMSD	104	94	111		0
08	VBLKGVF103-MB1	98	104	107		0
09	VBLKGVF103-MB1 BS	100	103	103		0
10	VBLKGVF109-MB1	97	101	104		0
11	VBLKGVF109-MB1 BS	95	95	97		0
12	VBLKGVF109-MB1 BSD	98	95	101		0
13	VBLKGVB092-MB1	98	91	105		0
14	VBLKGVB092-MB1 BS	104	95	107		0
15	VBLKGVB092-MB1 BSD	105	95	110		0

	QC LIMITS
S1 (TOL) = Toluene-d8	(81-117)
S2 (BFB) = 4-Bromofluorobenzene	(74-121)
S3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogates diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy RFW Lot No.: 9504G211-001

MATRIX Spike - Sample No.: TC2-BG06-GWS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC
1,1-Dichloroethene	50.0	140	167	55 *	61-145
Trichloroethene	50.0	51.8	86.8	70 *	71-120
Benzene	50.0	0	52.9	106	76-127
Toluene	50.0	0	47.5	95	76-125
Chlorobenzene	50.0	0	46.1	92	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	50.0	186	93	51 *	14	61-145
Trichloroethene	50.0	89.2	75	6	14	71-120
Benzene	50.0	54.8	110	3	11	76-127
Toluene	50.0	50.6	101	6	13	76-125
Chlorobenzene	50.0	47.6	95	3	13	75-130

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 1 out of 5 outside limits
Spike Recovery: 2 out of 10 outside limits

COMMENTS:

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy RFW Lot No.: 9504G211-015

MATRIX Spike - Sample No.: TC2-BG07-SBD

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC
1,1-Dichloroethene	52.0	0	53.2	102	59-172
Trichloroethene	52.0	0	45.5	88	62-137
Benzene	52.0	0	51.9	100	66-142
Toluene	52.0	0	52.7	101	59-139
Chlorobenzene	52.0	0	49.0	94	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	52.0	49.9	96	6	22	59-172
Trichloroethene	52.0	42.5	82	7	24	62-137
Benzene	52.0	50.3	97	3	21	66-142
Toluene	52.0	49.9	96	5	21	59-139
Chlorobenzene	52.0	46.8	90	4	21	60-133

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

3A
WATER VOLATILE MATRIX SPIKE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: NONE

Case No.: Techalloy RFW Lot No.: 9504G211

MATRIX Spike - Sample No.: VBLKGVB090-MB1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC
1,1-Dichloroethene	50.0	0	46.4	93	61-145
Trichloroethene	50.0	0	44.8	90	71-120
Benzene	50.0	0	52.8	106	76-127
Toluene	50.0	0	50.7	101	76-125
Chlorobenzene	50.0	0	48.2	96	75-130

Column to be used to flag recovery value with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

3A
WATER VOLATILE MATRIX SPIKE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: NONE

Case No.: Techalloy RFW Lot No.: 9504G211

MATRIX Spike - Sample No.: VBLKGVE116-MB1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC
1,1-Dichloroethene	50.0	0	40.8	82	61-145
Trichloroethene	50.0	0	44.4	89	71-120
Benzene	50.0	0	48.4	97	76-127
Toluene	50.0	0	47.3	95	76-125
Chlorobenzene	50.0	0	46.5	93	75-130

Column to be used to flag recovery value with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

3A
WATER VOLATILE MATRIX SPIKE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: NONE

Case No.: Techalloy RFW Lot No.: 9504G211

MATRIX Spike - Sample No.: VBLKGVB093-MB1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC
1,1-Dichloroethene	50.0	0	54.7	109	61-145
Trichloroethene	50.0	0	51.3	103	71-120
Benzene	50.0	0	58.3	117	76-127
Toluene	50.0	0	54.4	109	76-125
Chlorobenzene	50.0	0	56.2	112	75-130

Column to be used to flag recovery value with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

3B
SOIL VOLATILE MATRIX SPIKE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: NONE

Case No.: Techalloy RFW Lot No.: 9504G211

MATRIX Spike - Sample No.: VBLKGVF103-MB1

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC
1,1-Dichloroethene	50.0	0	49.1	98	59-172
Trichloroethene	50.0	0	45.3	91	62-137
Benzene	50.0	0	50.4	101	66-142
Toluene	50.0	0	48.1	96	59-139
Chlorobenzene	50.0	0	47.4	95	60-133

Column to be used to flag recovery value with an asterisk
* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS:

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: NONE

Case No.: Techalloy RFW Lot No.: 9504G211

MATRIX Spike - Sample No.: VBLKGVF109-MB1

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC
1,1-Dichloroethene	50.0	0	46.0	92	59-172
Trichloroethene	50.0	0	43.1	86	62-137
Benzene	50.0	0	47.3	95	66-142
Toluene	50.0	0	44.2	88	59-139
Chlorobenzene	50.0	0	45.9	92	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	50.0	48.2	96	4	22	59-172
Trichloroethene	50.0	46.1	92	6	24	62-137
Benzene	50.0	50.8	102	7	21	66-142
Toluene	50.0	48.6	97	9	21	59-139
Chlorobenzene	50.0	49.5	99	7	21	60-133

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Roy F. Weston, Inc. Contract: NONE

Case No.: Techalloy RFW Lot No.: 9504G211

MATRIX Spike - Sample No.: VBLKGVB092-MB1

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC
1,1-Dichloroethene	50.0	0	50.2	100	59-172
Trichloroethene	50.0	0	42.5	85	62-137
Benzene	50.0	0	47.8	96	66-142
Toluene	50.0	0	47.8	96	59-139
Chlorobenzene	50.0	0	45.4	91	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
1,1-Dichloroethene	50.0	52.9	106	5	22	59-172
Trichloroethene	50.0	45.1	90	5	24	62-137
Benzene	50.0	51.7	103	7	21	66-142
Toluene	50.0	51.9	104	7	21	59-139
Chlorobenzene	50.0	48.6	97	6	21	60-133

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy

Lab File ID: BZE419 Lab Sample ID: 95GVB090-MB1

Date Analyzed: 04/19/95 Time Analyzed: 2231

Matrix:(Soil/Water) WATER Level:(low/med) LOW

Instrument ID: gc12

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TC2-BG06-GWS	9504G211-001	BWKV05	0132
02	TC2-BG06-GWSMS	9504G211-001S	BWKV06	0208
03	TC2-BG06-GWSMSD	9504G211-001T	BWKV07	0243
04	TC2-BG06-GWD	9504G211-003	BWKV08	0320
05	TC2-BG07-GWS	9504G211-005	BWKV09	0356
06	TC2-BG07-GWD	9504G211-007	BWKV10	0433
07	TC2-BG06-GWS-DP	9504G211-009	BWKV11	0509
08	VBLKGVB090-MB1 BS	95GVB090-MB1S	BZG419	0736

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy

Lab File ID: BZD420 Lab Sample ID: 95GVB092-MB1

Date Analyzed: 04/20/95 Time Analyzed: 1254

Matrix:(Soil/Water) SOIL Level:(low/med) LOW

Instrument ID: gc12

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TC2-BG07-SBS	9504G211-014	BWKV12	1449
02	TC2-BG07-SBD	9504G211-015	BWKV13	1527
03	TC2-BG07-SBDMS	9504G211-015S	BWKV14	1605
04	TC2-BG07-SBDMSD	9504G211-015T	BWKV15	1642
05	VBLKGVB092-MB1 BS	95GVB092-MB1S	BZB420	1349
06	VBLKGVB092-MB1 BSD	95GVB092-MB1T	BZC420	1910

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy

Lab File ID: BZE420 Lab Sample ID: 95GVB093-MB1

Date Analyzed: 04/20/95 Time Analyzed: 2139

Matrix:(Soil/Water) WATER Level:(low/med) LOW

Instrument ID: gc12

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TC2-BG06-GWSDL	9504G211-001	BWKV18	0049
02	TC2-BG07-GWSDL	9504G211-005	BWKV19	0126
03	TC2-BG06-GWS-DPDL	9504G211-009	BWKV20	0203
04	VBLKGVB093-MB1 BS	95GVB093-MB1S	BZG420	0702

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy

Lab File ID: ECF421 Lab Sample ID: 95GVE116-MB1

Date Analyzed: 04/21/95 Time Analyzed: 2351

Matrix:(Soil/Water) WATER Level:(low/med) LOW

Instrument ID: GCL#5

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VBLKGVE116-MB1 BS	95GVE116-MB1S	ECI421	0047
02	TC2-BG06-GWSDL	9504G211-001	EWKV21	0249
03	TC2-BG06-GWS-DPDL	9504G211-009	EWKV22	0330

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy

Lab File ID: FPD419 Lab Sample ID: 95GVF103-MB1

Date Analyzed: 04/19/95 Time Analyzed: 2322

Matrix:(Soil/Water) SOIL Level:(low/med) LOW

Instrument ID: GCL#6

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VBLKGVF103-MB1 BS	95GVF103-MB1S	FPE419	0017
02	TC2-BG06-SBS	9504G211-011	FWKV01	0623

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy

Lab File ID: FPA423 Lab Sample ID: 95GVF109-MB1

Date Analyzed: 04/23/95 Time Analyzed: 2015

Matrix:(Soil/Water) SOIL Level:(low/med) LOW

Instrument ID: GCL#6

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VBLKGVF109-MB1 BS	95GVF109-MB1S	FPB423	2120
02	VBLKGVF109-MB1 BSD	95GVF109-MB1T	FPC423	0230
03	TC2-BG06-SBD	9504G211-012	FWKV23	2203
04	TC2-BG06-SBS-DP	9504G211-013	FWKV24	2248

COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy

Lab File ID: BXA403 BFB Injection Date: 04/03/95

Instrument ID: gc12 BFB Injection Time: 0929

GC Column: Cap ID: 0.53 (mm) Heated Purge: (Y/N) N

JK
5-2-95

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	27.1
75	30.0 - 66.0% of mass 95	47.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.7
173	Less than 2.0% of mass 174	0.0(0.0)1
174	50.0 - 120.0% of mass 95	68.7
175	4.0 - 9.0% of mass 174	5.1(7.5)1
176	93.0 - 101.0% of mass 174	66.7(97.1)1
177	5.0 - 9.0% of mass 176	4.4(6.7)2

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD50+A	STD50+A	BYA403	04/03/95	1034
02	STD20+A	STD20+A	BYB403	04/03/95	1252
03	STD100+	STD100+	BYC403	04/03/95	1336
04	STD150	STD150	BYD403	04/03/95	1421
05	STD200	STD200	BYE403	04/03/95	1506
06					
07					
08					
09					
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18					
19					
20					

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy

Lab File ID: FNA329 BFB Injection Date: 03/29/95

Instrument ID: GCL#6 BFB Injection Time: 1010

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.9
75	30.0 - 60.0% of mass 95	43.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	67.6
175	5.0 - 9.0% of mass 174	4.9(7.3)1
176	Greater than 95.0% but less than 101.0% of mass 174	65.4(96.8)1
177	5.0 - 9.0% of mass 176	4.8(7.4)2

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD20++	STD20++	FOB329	03/29/95	1302
02	STD50++	STD50++	FOC329	03/29/95	1343
03	STD100+	STD100+	FOD329	03/29/95	1424
04	STD150+	STD150+	FOE329	03/29/95	1506
05	STD200+	STD200+	FOG329	03/29/95	1711
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy

Lab File ID: EAB413 BFB Injection Date: 04/13/95

Instrument ID: GCL#5 BFB Injection Time: 1729

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.1
75	30.0 - 60.0% of mass 95	57.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.4(0.49)1
174	Greater than 50.0% of mass 95	85.9
175	5.0 - 9.0% of mass 174	6.8(7.9)1
176	Greater than 95.0% but less than 101.0% of mass 174	85.5(99.6)1
177	5.0 - 9.0% of mass 176	4.8(5.6)2

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD20++	STD20++	EBB413	04/13/95	1836
02	STD50++	STD50++	EBC413	04/13/95	1919
03	STD100+	STD100+	EBD413	04/13/95	1958
04	STD150+	STD150+	EBE413	04/13/95	2043
05	STD200+	STD200+	EBF413	04/13/95	2122
06					
07					
08					
09					
10					
11					
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13					
14					
15					
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17					
18					
19					
20					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy

Lab File ID: BXB417 BFB Injection Date: 04/17/95

Instrument ID: gc12 BFB Injection Time: 1143

GC Column: Cap ID: 0.53 (mm) Heated Purge: (Y/N) N

JR
5-2-95

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	25.0
75	30.0 - 66.0% of mass 95	46.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0(0.0)1
174	50.0 - 120.0% of mass 95	72.3
175	4.0 - 9.0% of mass 174	6.3(8.7)1
176	93.0 - 101.0% of mass 174	69.2(95.8)1
177	5.0 - 9.0% of mass 176	4.7(6.8)2

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD50++	STD50++	BYA417	04/17/95	1357
02	STD100+	STD100+	BYC417	04/17/95	1639
03	STD150+	STD150+	BYD417	04/17/95	1716
04	STD20++	STD20++	BYH417	04/17/95	1846
05	STD200++	STD200++	BYG417	04/17/95	2050 JSO 5/2/95
06					
07					
08					
09					
10					
11					
12					
13					
14					
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17					
18					
19					
20					

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy

Lab File ID: BXC419 BFB Injection Date: 04/19/95

Instrument ID: gc12 BFB Injection Time: 2045

GC Column: Cap ID: 0.53 (mm) Heated Purge: (Y/N) N

JK 5-2-95

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	25.4
75	30.0 - 66.0% of mass 95	45.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.6
173	Less than 2.0% of mass 174	0.0(0.0)1
174	50.0 - 120.0% of mass 95	64.5
175	4.0 - 9.0% of mass 174	5.7(8.8)1
176	93.0 - 101.0% of mass 174	61.4(95.2)1
177	5.0 - 9.0% of mass 176	3.7(6.0)2

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD50++	STD50++	BYC419	04/19/95	2130
02	VBLKGVB090-MB1	95GVB090-MB1	BZE419.	04/19/95	2231
03	TC2-BG06-GWS	9504G211-001	BWKV05.	04/20/95	0132
04	TC2-BG06-GWSMS	9504G211-001S	BWKV06.	04/20/95	0208
05	TC2-BG06-GWSMSD	9504G211-001T	BWKV07.	04/20/95	0243
06	TC2-BG06-GWD	9504G211-003	BWKV08.	04/20/95	0320
07	TC2-BG07-GWS	9504G211-005	BWKV09.	04/20/95	0356
08	TC2-BG07-GWD	9504G211-007	BWKV10.	04/20/95	0433
09	TC2-BG06-GWS-DP	9504G211-009	BWKV11.	04/20/95	0509
10	VBLKGVB090-MB1 BS	95GVB090-MB1S	BZG419.	04/20/95	0736
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy

Lab File ID: BXB420 BFB Injection Date: 04/20/95

Instrument ID: gc12 BFB Injection Time: 0944

GC Column: Cap ID: 0.53 (mm) Heated Purge: (Y/N) Y

JK
5-2-95

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.4
75	30.0 - 66.0% of mass 95	43.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.1
173	Less than 2.0% of mass 174	0.0(0.0)1
174	50.0 - 120.0% of mass 95	73.3
175	4.0 - 9.0% of mass 174	6.4(8.7)1
176	93.0 - 101.0% of mass 174	73.4(100.2)1
177	5.0 - 9.0% of mass 176	4.7(6.4)2

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD50	STD50	BYA420	04/20/95	1030
02	VBLKGVB092-MB1	95GVB092-MB1	BZD420.	04/20/95	1254
03	VBLKGVB092-MB1 BS	95GVB092-MB1S	BZB420.	04/20/95	1349
04	TC2-BG07-SBS	9504G211-014	BWKV12.	04/20/95	1449
05	TC2-BG07-SBD	9504G211-015	BWKV13.	04/20/95	1527
06	TC2-BG07-SBDMS	9504G211-015S	BWKV14.	04/20/95	1605
07	TC2-BG07-SBDMSD	9504G211-015T	BWKV15.	04/20/95	1642
08	VBLKGVB092-MB1 BSD	95GVB092-MB1T	BZC420.	04/20/95	1910
09					
10					
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19					
20					

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy

Lab File ID: BXC420 BFB Injection Date: 04/20/95

Instrument ID: gcl2 BFB Injection Time: 1956

GC Column: Cap ID: 0.53 (mm) Heated Purge: (Y/N) N

JR 5-2-95

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	25.0
75	30.0 - 66.0% of mass 95	42.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.8
173	Less than 2.0% of mass 174	0.0(0.0)1
174	50.0 - 120.0% of mass 95	66.7
175	4.0 - 9.0% of mass 174	5.6(8.5)1
176	93.0 - 101.0% of mass 174	65.0(97.5)1
177	5.0 - 9.0% of mass 176	4.2(6.4)2

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD50++	STD50++	BYB420	04/20/95	2038
02	VBLKGVB093-MB1	95GVB093-MB1	BZE420.	04/20/95	2139
03	TC2-BG06-GWSDL	9504G211-001	BWKV18.	04/21/95	0049
04	TC2-BG07-GWSDL	9504G211-005	BWKV19.	04/21/95	0126
05	TC2-BG06-GWS-DPDL	9504G211-009	BWKV20.	04/21/95	0203
06	VBLKGVB093-MB1 BS	95GVB093-MB1S	BZG420.	04/21/95	0702
07					
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5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy

Lab File ID: EAB421 BFB Injection Date: 04/21/95

Instrument ID: GCL#5 BFB Injection Time: 2013

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.5
75	30.0 - 60.0% of mass 95	55.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.4(0.60)1
174	Greater than 50.0% of mass 95	68.8
175	5.0 - 9.0% of mass 174	5.6(8.2)1
176	Greater than 95.0% but less than 101.0% of mass 174	66.4(96.5)1
177	5.0 - 9.0% of mass 176	5.1(7.6)2

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD50++	STD50++	EBF421	04/21/95	2255
02	VBLKGVE116-MB1	95GVE116-MB1	ECF421.	04/21/95	2351
03	VBLKGVE116-MB1 BS	95GVE116-MB1S	ECI421.	04/22/95	0047
04	TC2-BG06-GWSDL	9504G211-001	EWKV21.	04/22/95	0249
05	TC2-BG06-GWS-DPDL	9504G211-009	EWKV22.	04/22/95	0330
06					
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5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy

Lab File ID: FNB419 BFB Injection Date: 04/19/95

Instrument ID: GCL#6 BFB Injection Time: 1927

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	16.0
75	30.0 - 60.0% of mass 95	44.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	66.7
175	5.0 - 9.0% of mass 174	5.4(8.0)1
176	Greater than 95.0% but less than 101.0% of mass 174	66.3(99.4)1
177	5.0 - 9.0% of mass 176	4.5(6.8)2

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD50++	STD50++	FOC419	04/19/95	2110
02	VBLKGVF103-MB1	95GVF103-MB1	FPD419.	04/19/95	2322
03	VBLKGVF103-MB1 BS	95GVF103-MB1S	FPE419.	04/20/95	0017
04	TC2-BG06-SBS	9504G211-011	FWKV01.	04/20/95	0623
05					
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20					

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy

Lab File ID: FNA423 BFB Injection Date: 04/23/95

Instrument ID: GCL#6 BFB Injection Time: 1552

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.8
75	30.0 - 60.0% of mass 95	50.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.0(0.0)1
174	Greater than 50.0% of mass 95	70.1
175	5.0 - 9.0% of mass 174	5.0(7.1)1
176	Greater than 95.0% but less than 101.0% of mass 174	66.9(95.5)1
177	5.0 - 9.0% of mass 176	4.3(6.4)2

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

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	STD50++	STD50++	FOB423	04/23/95	1846
02	VBLKGVF109-MB1	95GVF109-MB1	FPA423.	04/23/95	2015
03	VBLKGVF109-MB1 BS	95GVF109-MB1S	FPB423.	04/23/95	2120
04	TC2-BG06-SBD	9504G211-012	FWKV23.	04/23/95	2203
05	TC2-BG06-SBS-DP	9504G211-013	FWKV24.	04/23/95	2248
06	VBLKGVF109-MB1 BSD	95GVF109-MB1T	FPC423.	04/24/95	0230
07					
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III. Sample Data Package

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-GWS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-001

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BWKV05

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. _____

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	140	
75-34-3	1,1-Dichloroethane		E
540-59-0	1,2-Dichloroethene (total)	160	
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane		E
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	52	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	73	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-GWS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER Lab Sample ID: 9504G211-001

Sample wt/vol: 5 (g/mL) ML Lab File ID: BWKV05

Level: (low/med) LOW Date Received: 04/10/95

% Moisture: not dec. _____ Date Analyzed: 04/20/95

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	20	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	50	U
107-05-1	3-Chloropropene	20	U
126-98-7	Methacrylonitrile	20	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2000	U
106-93-4	1,2-Dibromoethane	20	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	20	U
97-63-2	Ethylmethacrylate	20	U
76-01-7	Pentachloroethane	20	U

FORM 1 V-2 12/88 Rev.

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TC2-BG06-GWS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-001

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BWKV05

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec.

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

Number TICs found: 5

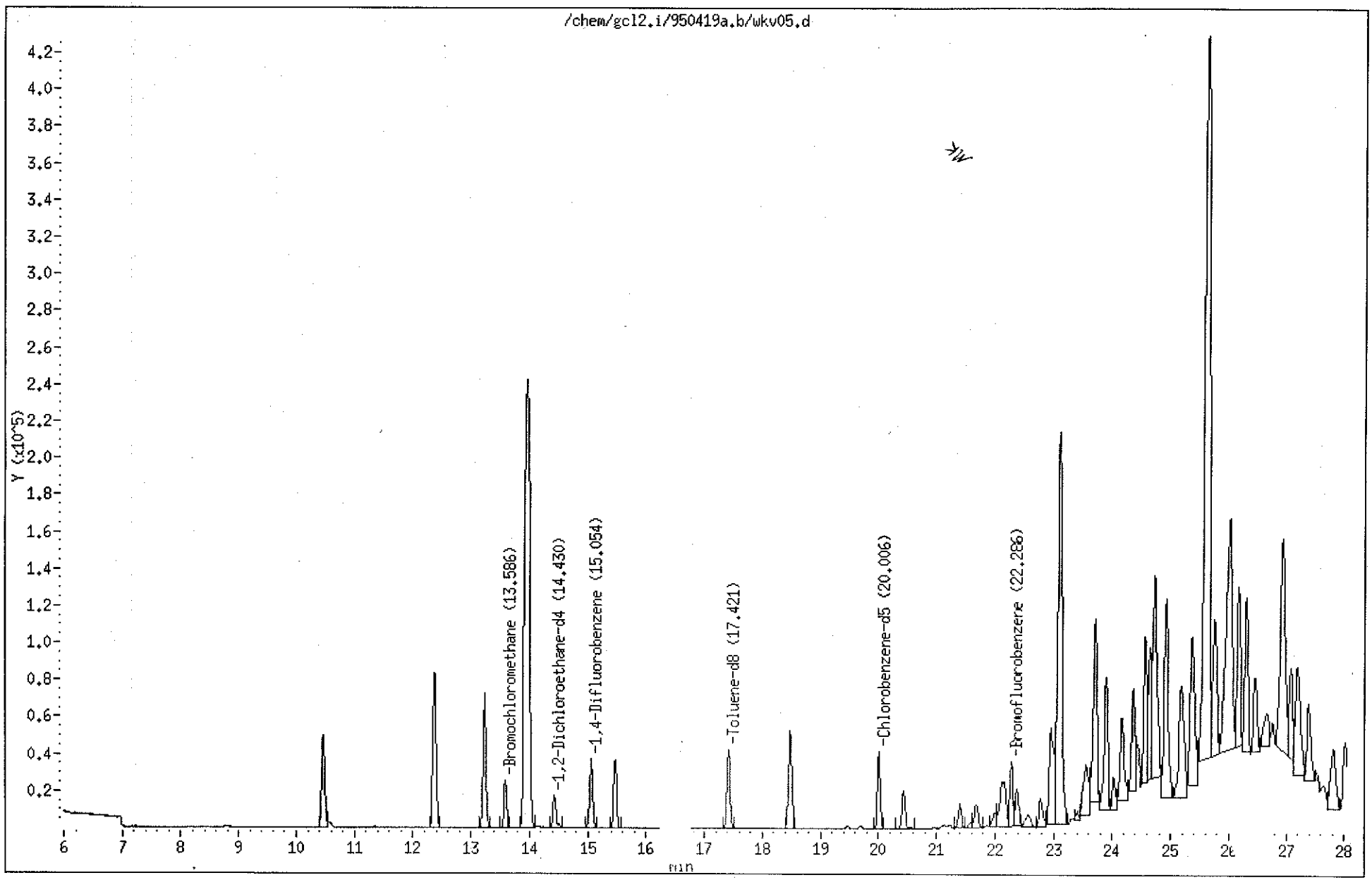
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN HYDROCARBON	23.10	400	J
2.		UNKNOWN HYDROCARBON	24.72	200	J
3.		UNKNOWN HYDROCARBON	25.63	800	J
4.		UNKNOWN HYDROCARBON	26.02	300	J
5.		UNKNOWN HYDROCARBON C11H22	26.93	200	J

Data File: /chem/gcl2.i/950419a.b/wkv05.d
Date : 20-APR-1995 01:32
Client ID:
Sample Info: 9504G211-001 BXC419
Purge Volume: 5.0
Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Data File: /chem/gcl2.i/950419a.b/wkv05.d
Report Date: 20-Apr-1995 08:03

Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950419a.b/wkv05.d
Lab Smp Id:
Inj Date : 20-APR-1995 01:32
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 9504G211-001 BXC419
Misc Info : GCL#2,DIL=1,5ML SMP+5ULIS,SS
Comment :
Method : /chem/gcl2.i/950419a.b/8240w2.m
Meth Date : 19-Apr-1995 22:11 petruszj Quant Type: ISTD
Cal Date : 19-APR-1995 21:30 Cal File: yc419.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * 1

Name	Value	Description
Uf	1.000	ng unit correction factor

(50) Red DL MK

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
11 1,1-Dichloroethene	96.00	10.466	10.451	(0.771)	38058	140.0	140.0
19 1,1-Dichloroethane	63.00	12.368	12.383	(0.911)	173295	226.1 E	226.1
21 1,2-Dichloroethene (total) Q✓ipk	96.00	13.230	13.246	(0.974)	54732	162.2	162.2
22 cis-1,2-Dichloroethene	96.00	13.230	13.246	(0.974)	54732	129.5	129.5
* 27 Bromochloromethane	127.80	13.576	13.593	(1.000)	10388✓	50.00	
29 1,1,1-Trichloroethane	97.00	13.954	13.960	(0.927)	431023	895.2 E	895.2
~~30~~ Carbon Tetrachloride	116.80	13.974	14.207	(0.928)	57534	133.0	133.0
$ 33 1,2-Dichloroethane-d4	65.00	14.430	14.445	(1.063)	18734	60.41 50	60.41
* 36 1,4-Difluorobenzene	114.00	15.054	15.070	(1.000)	55706✓	50.00	
38 Trichloroethene	130.00	15.470	15.486	(1.028)	26533	51.83	51.83
$ 46 Toluene-d8	98.00	17.421	17.439	(0.871)	53422	51.16✓	51.16
52 Tetrachloroethene	164.00	18.481	18.510	(0.924)	30077	73.19	73.19
* 56 Chlorobenzene-d5	117.00	20.006	20.037	(1.000)	47475✓	50.00	
$ 64 Bromofluorobenzene	95.00	22.286	22.307	(1.114)	29263	47.40✓	47.40

Data File: /chem/gcl2.i/950419a.b/wkv05.d

Date : 20-APR-1995 01:32

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-001 BXC419

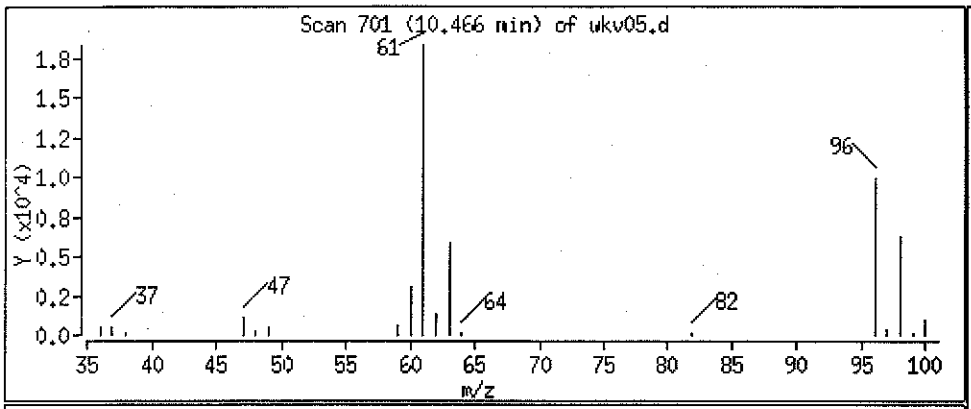
Purge Volume: 5.0

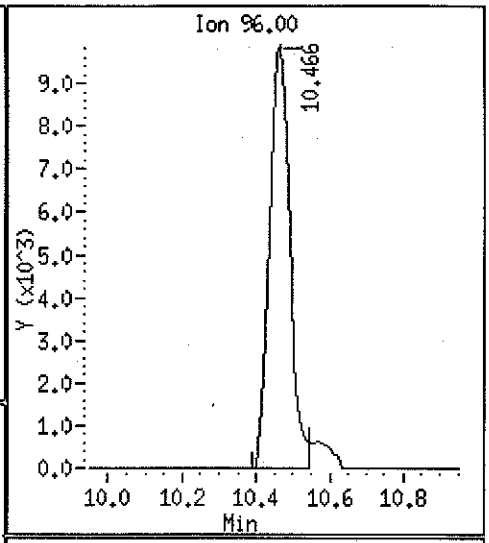
Operator: MANAGER MS

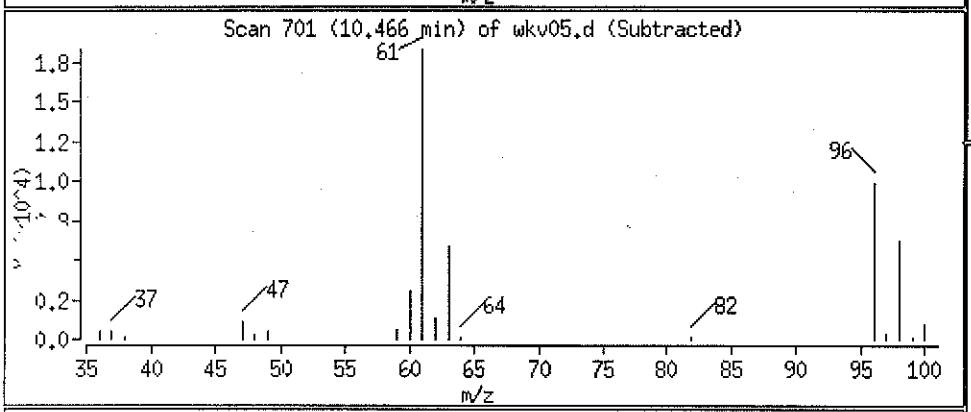
Column phase:

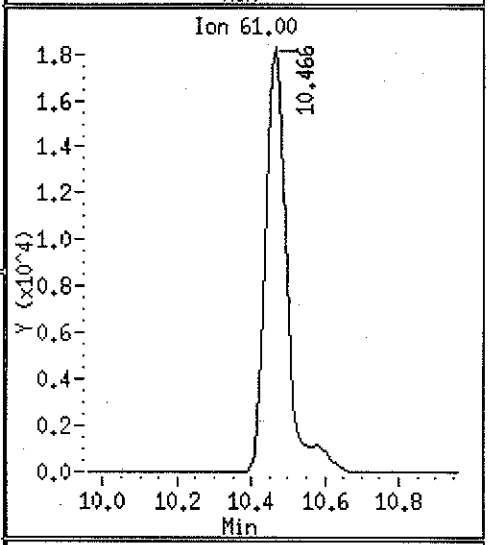
Column diameter: 2.00

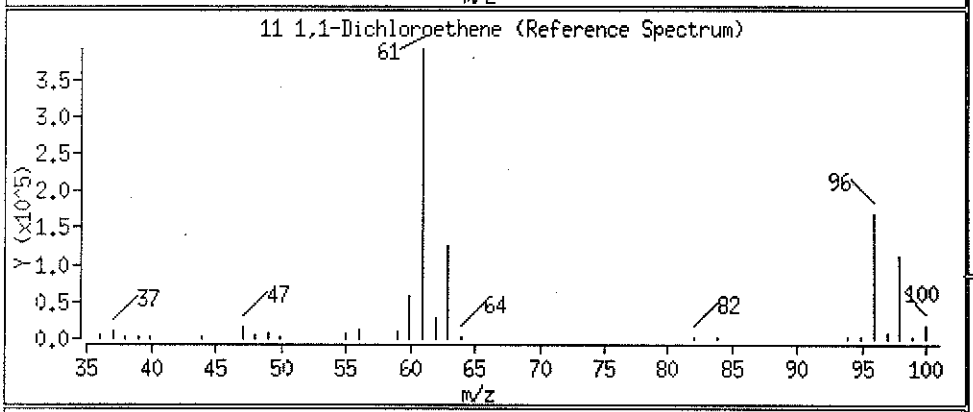
11 1,1-Dichloroethene

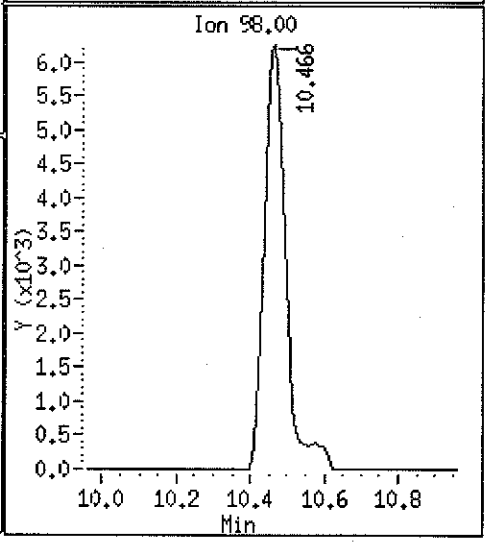


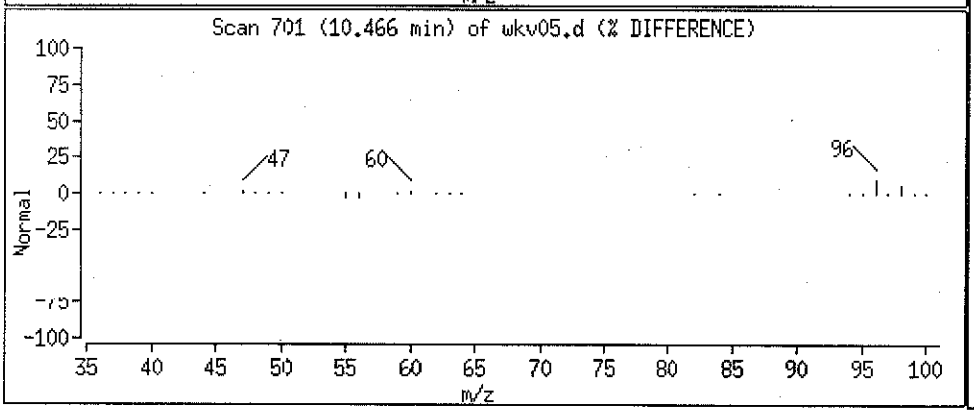












Data File: /chem/gcl2.i/950419a.b/wkv05.d

Date : 20-APR-1995 01:32

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-001 BXC419

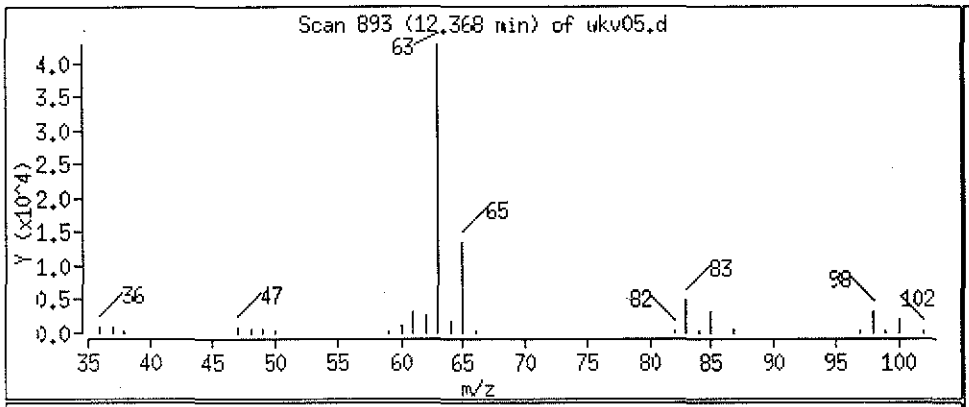
Purge Volume: 5.0

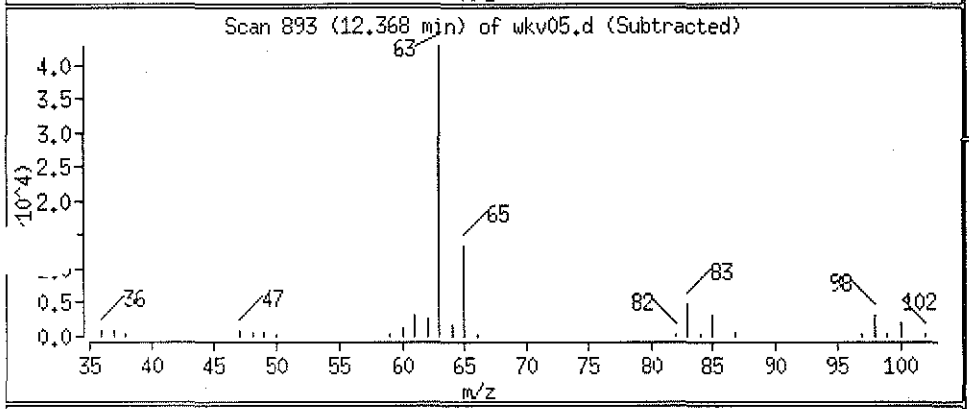
Operator: MANAGER MS

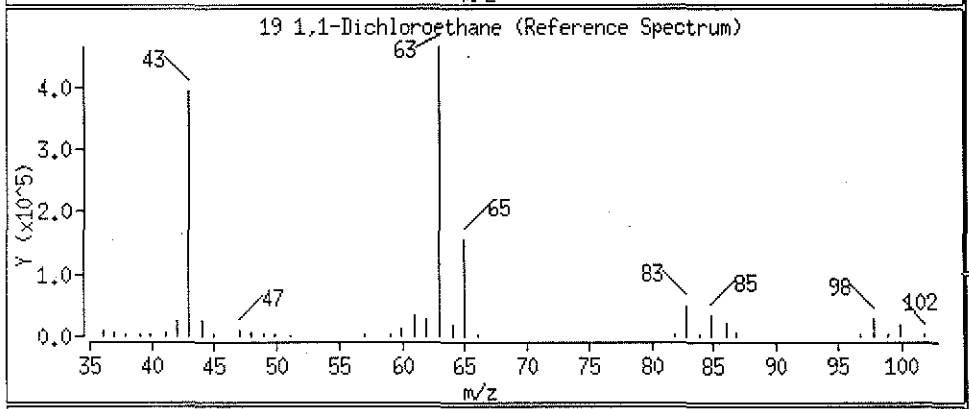
Column phase:

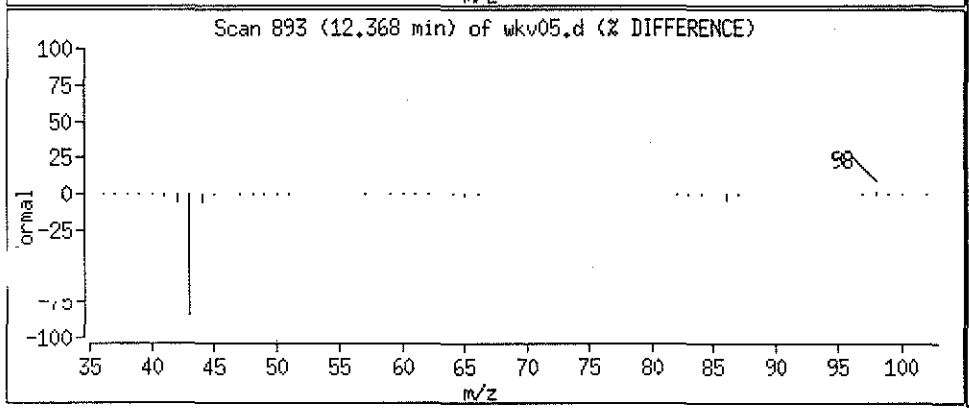
Column diameter: 2.00

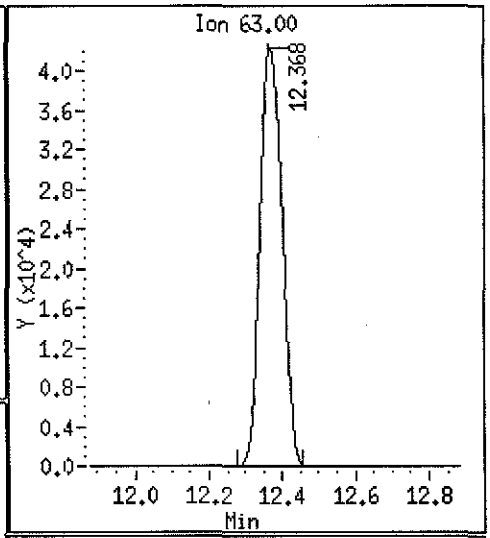
19 1,1-Dichloroethane

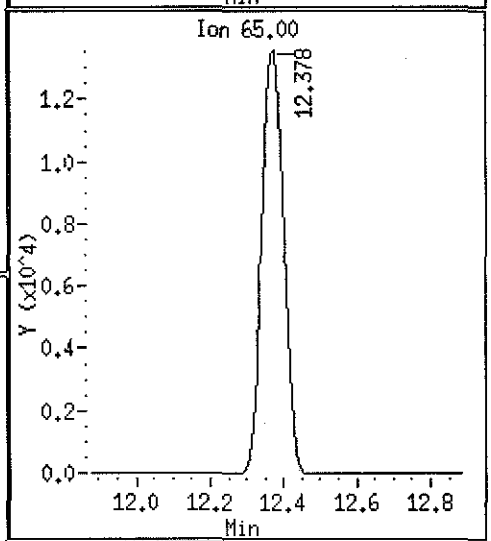


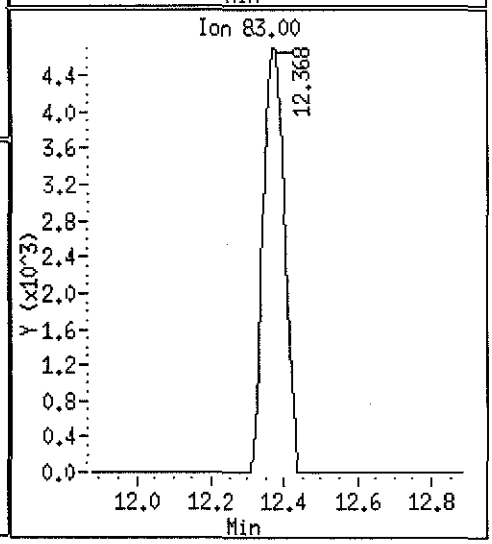












Data File: /chem/gcl2.i/950419a.b/wkv05.d

Date : 20-APR-1995 01:32

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-001 BXC419

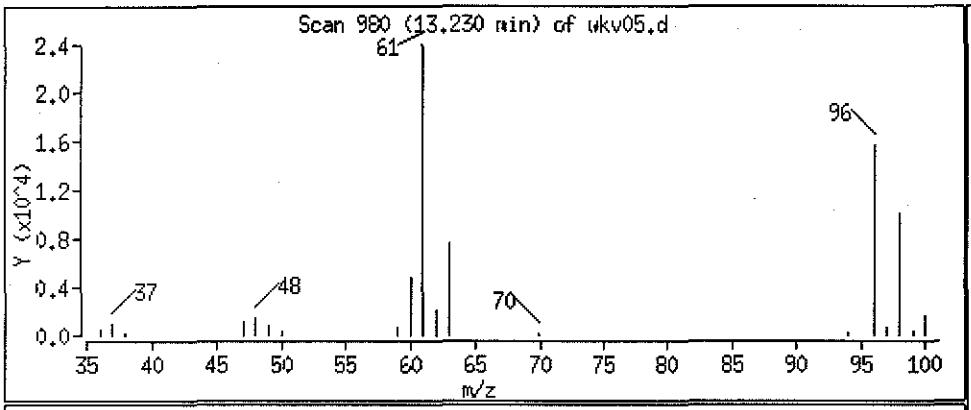
Purge Volume: 5.0

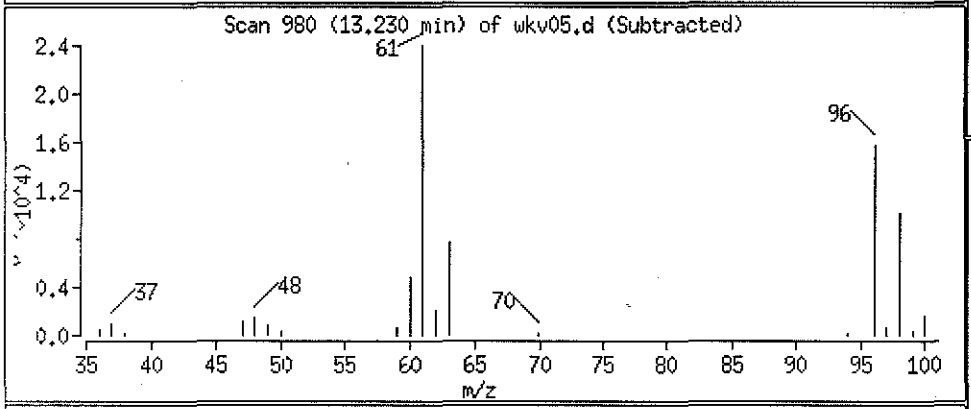
Operator: MANAGER MS

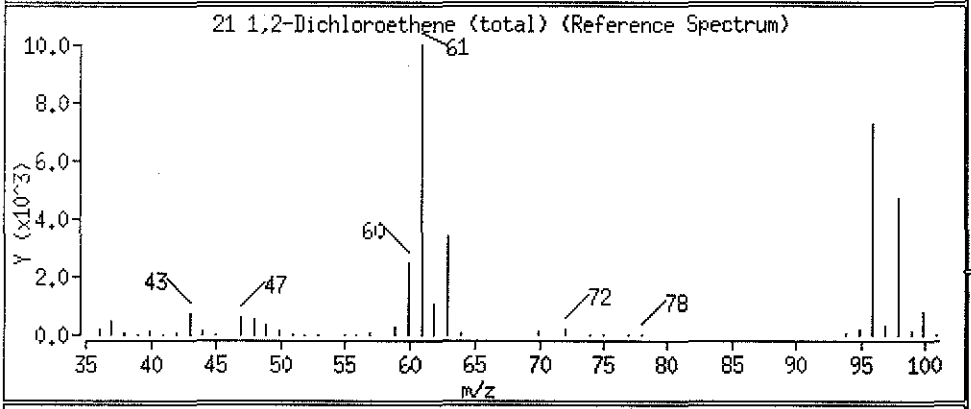
Column phase:

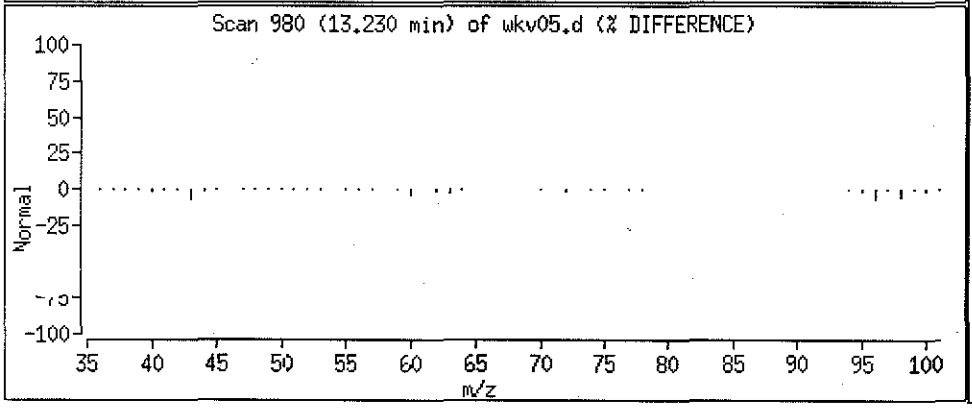
Column diameter: 2.00

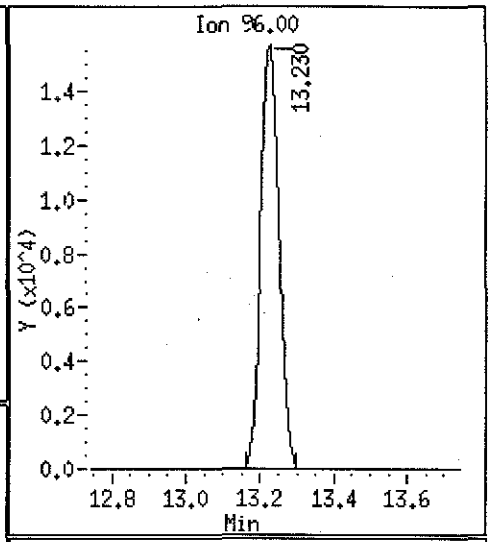
21 1,2-Dichloroethene (total)

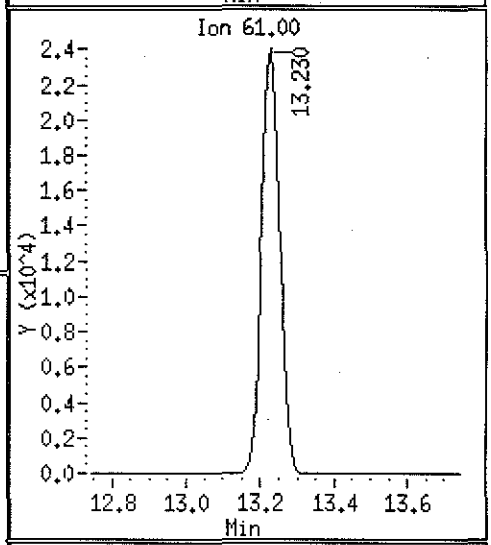


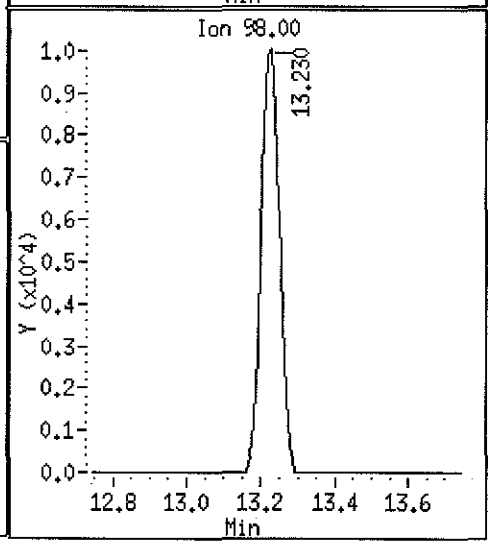












Data File: /chem/gcl2.i/950419a.b/wkv05.d

Date : 20-APR-1995 01:32

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-001 BXC419

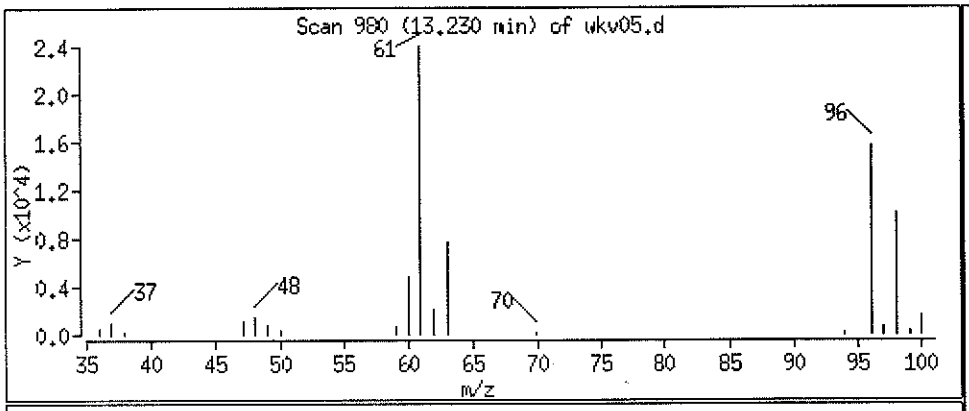
Purge Volume: 5.0

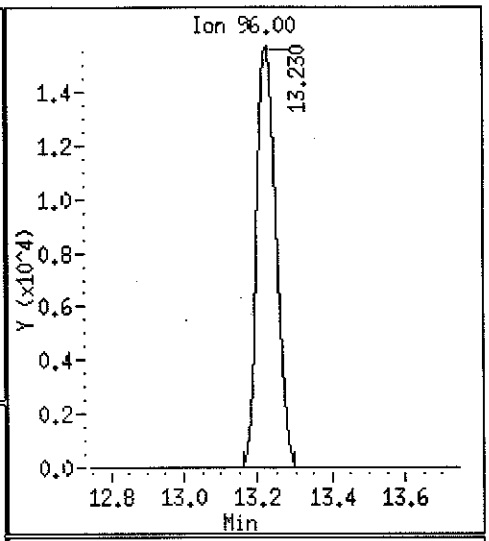
Operator: MANAGER MS

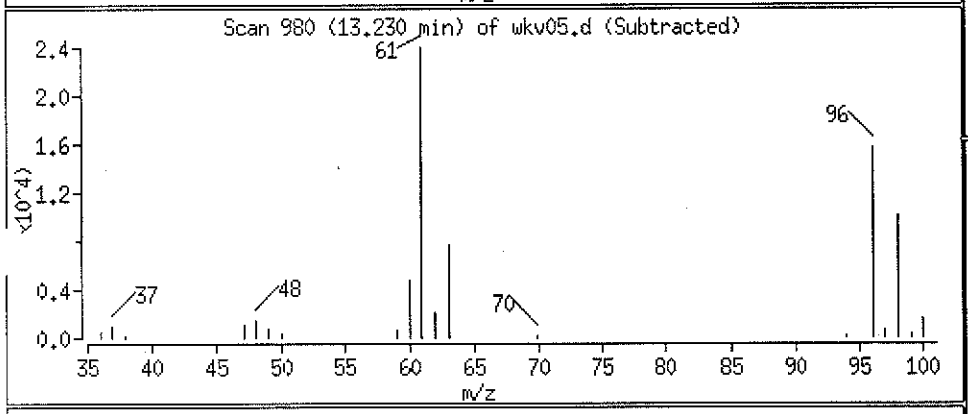
Column phase:

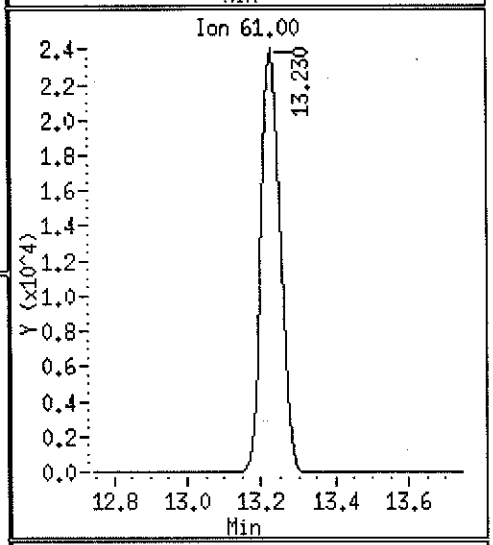
Column diameter: 2.00

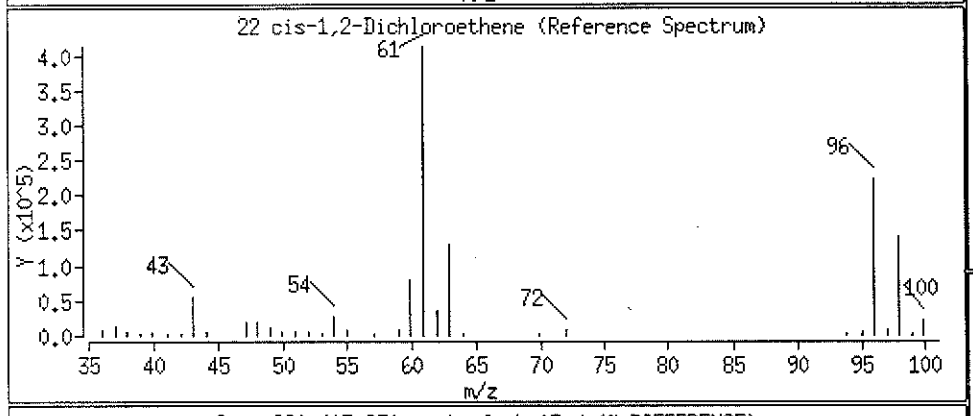
22 cis-1,2-Dichlorcethene

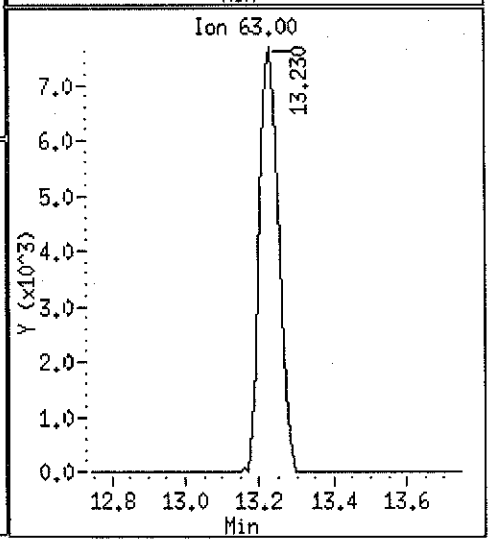


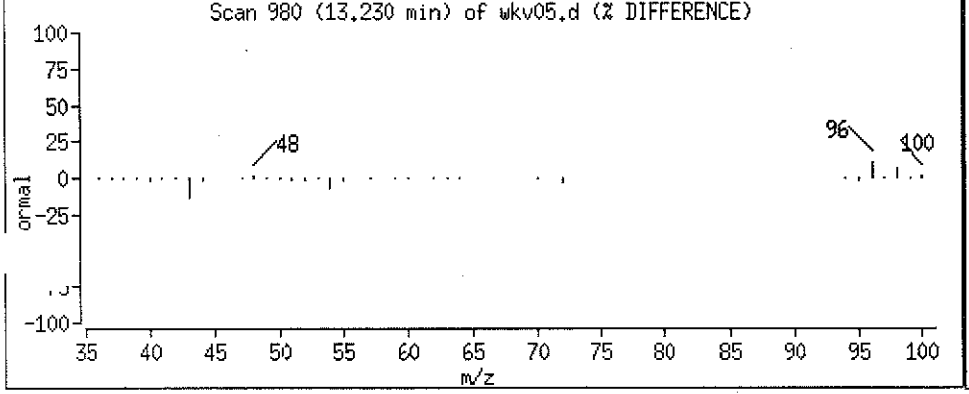












Data File: /chem/gcl2.i/950419a.b/wkv05.d

Date : 20-APR-1995 01:32

lient ID:

Instrument: gcl2.i

ample Info: 9504G211-001 BXC419

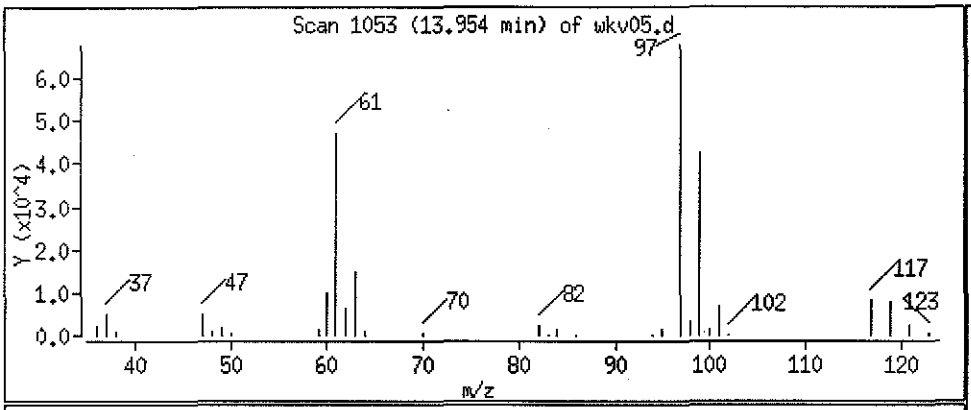
Purge Volume: 5.0

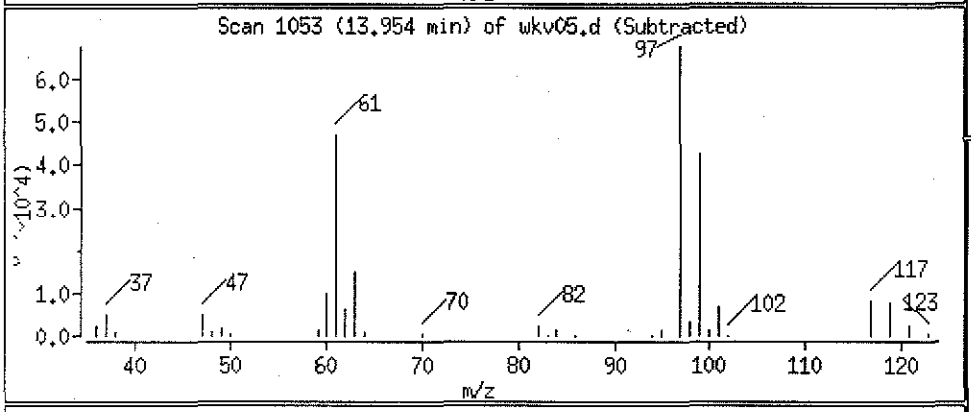
Operator: MANAGER MS

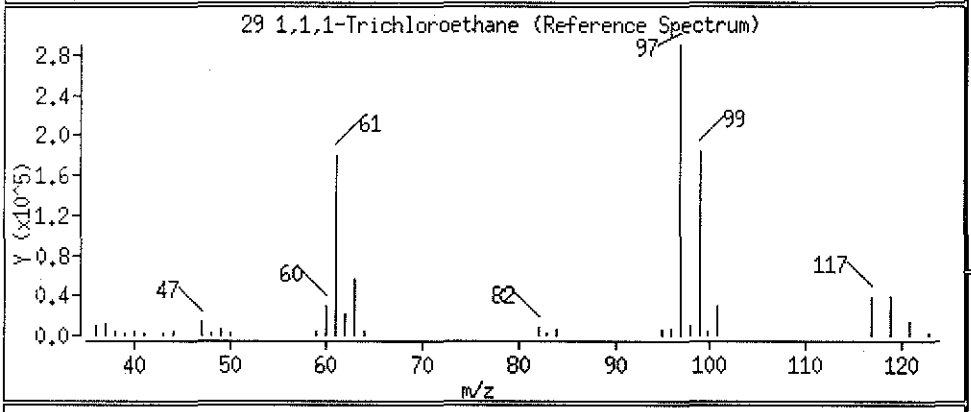
Column phase:

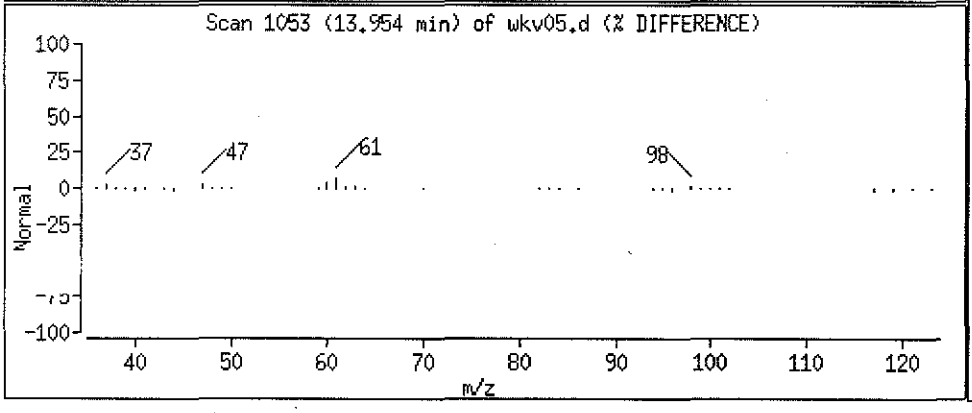
Column diameter: 2.00

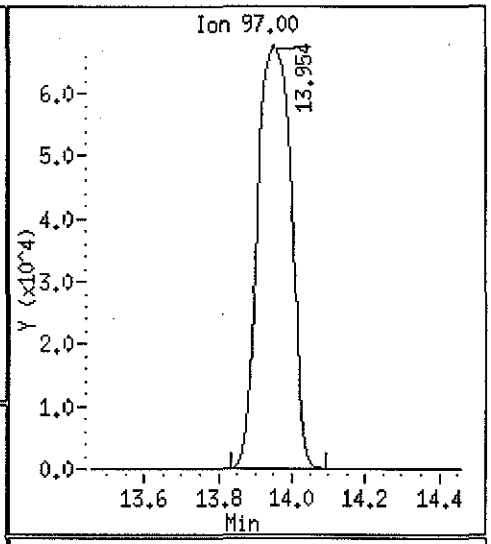
29 1,1,1-Trichloroethane

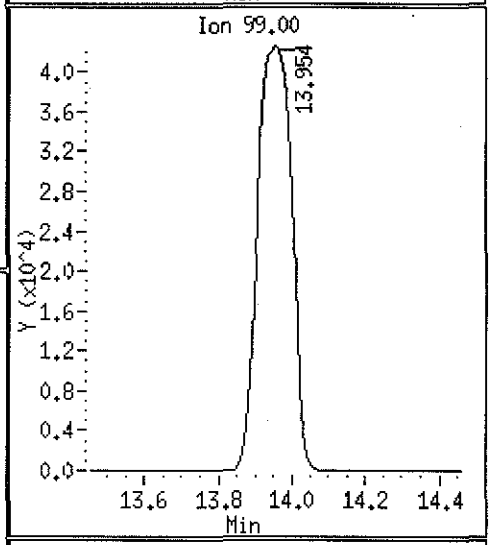


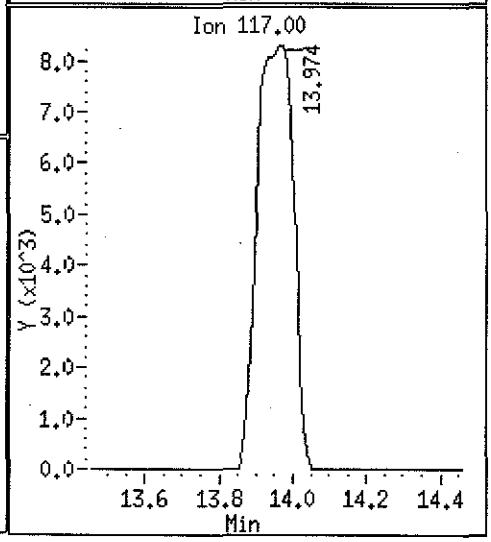












Data File: /chem/gcl2.i/950419a.b/wkv05.d

Date : 20-APR-1995 01:32

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-001 BXC419

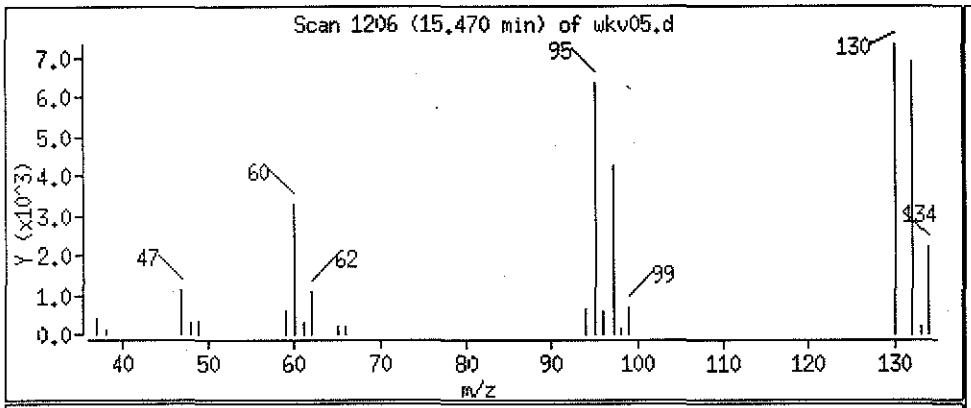
Purge Volume: 5.0

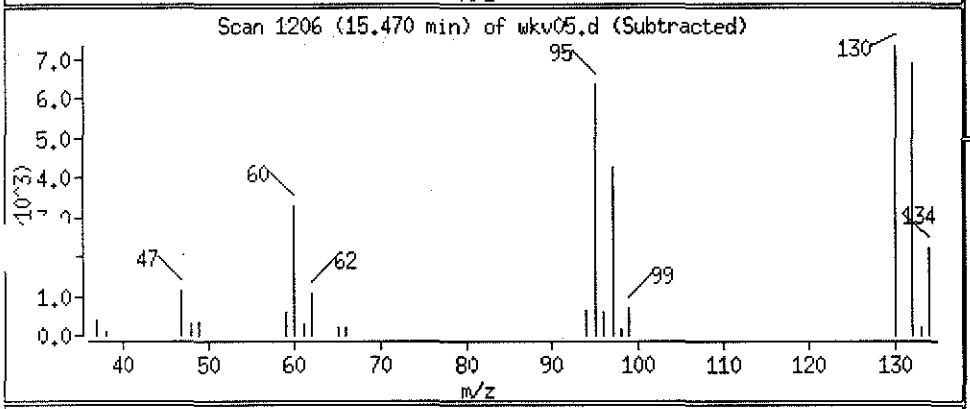
Operator: MANAGER MS

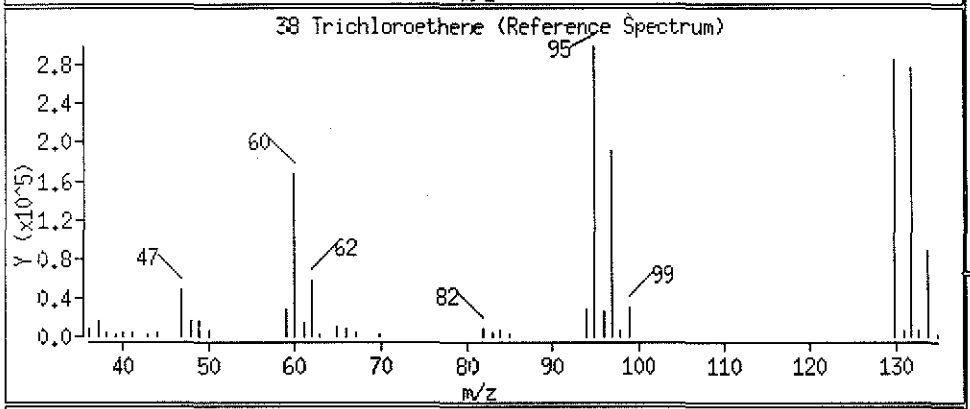
Column phase:

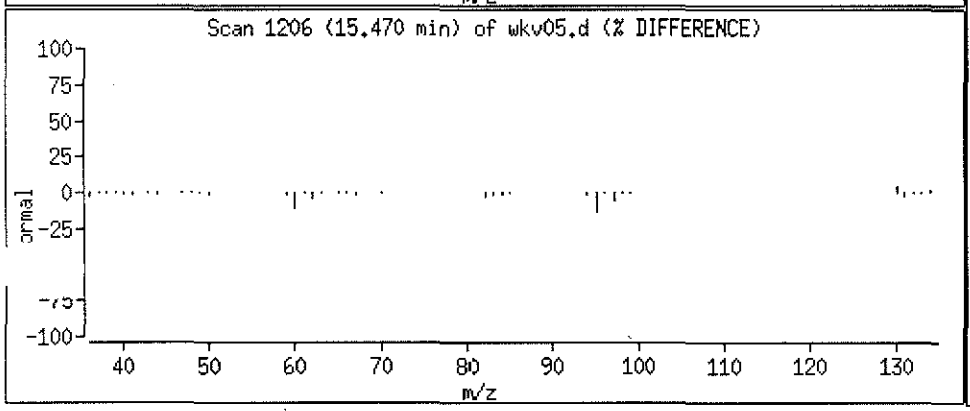
Column diameter: 2.00

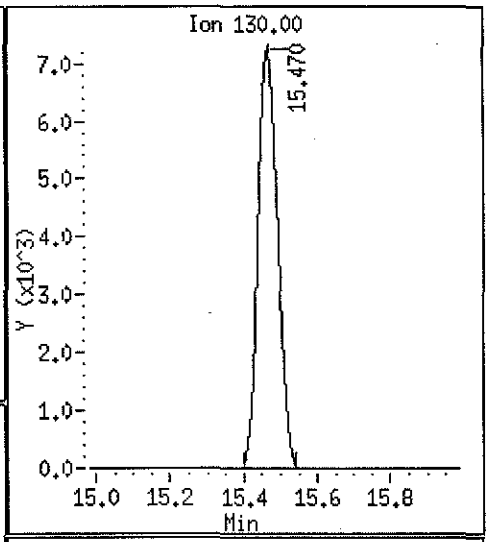
38 Trichloroethene

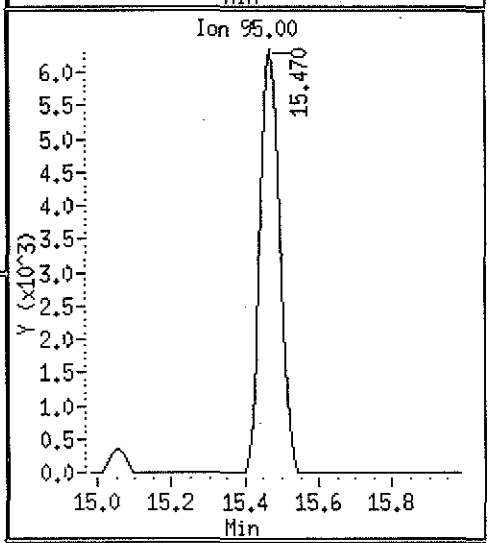


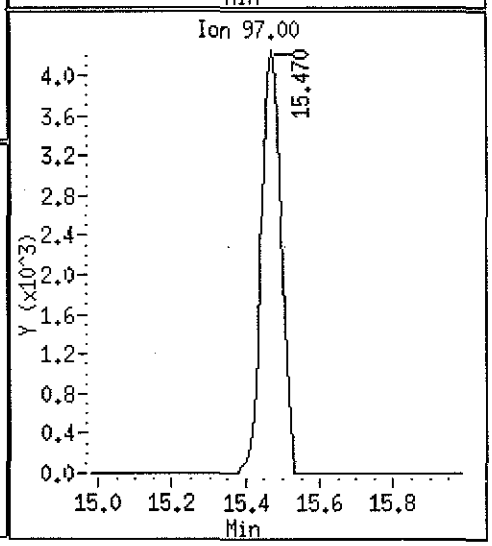












Data File: /chem/gcl2.i/950419a.b/wkv05.d

Date : 20-APR-1995 01:32

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-001 BXC419

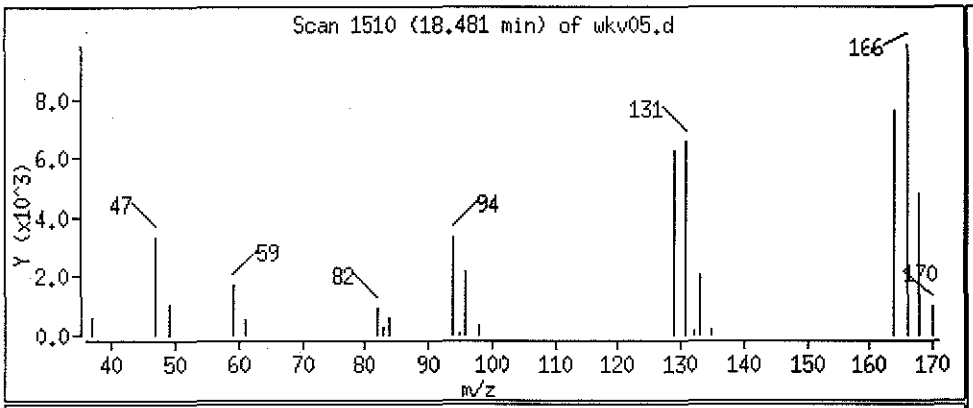
Purge Volume: 5.0

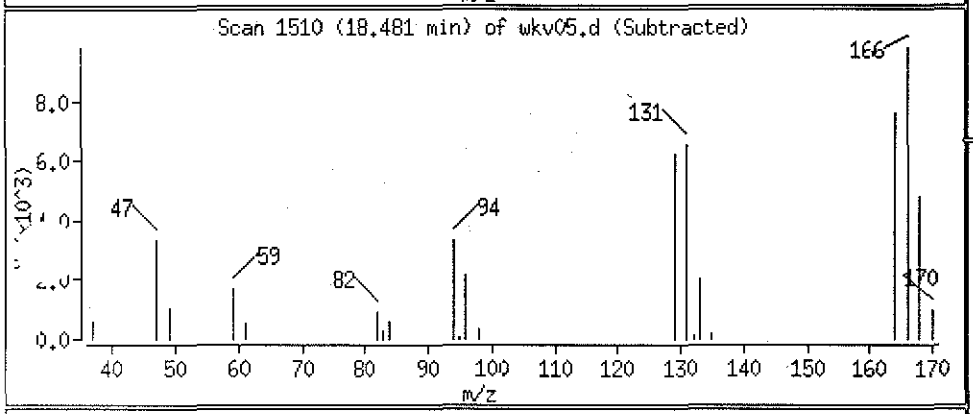
Operator: MANAGER MS

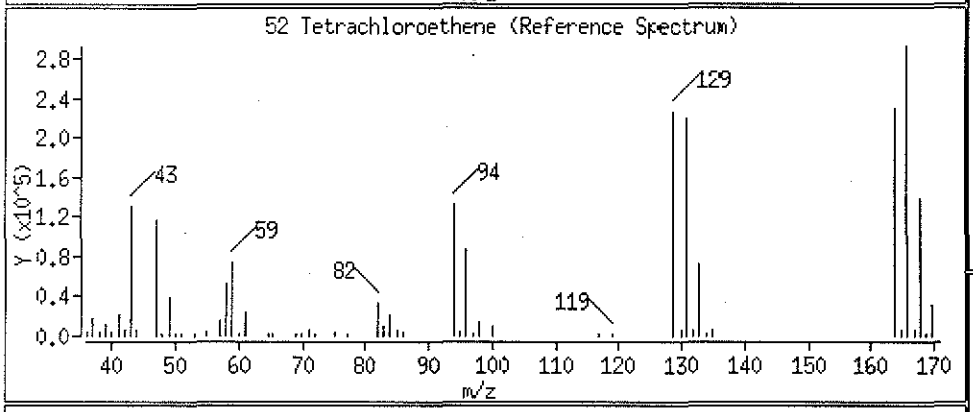
Column phase:

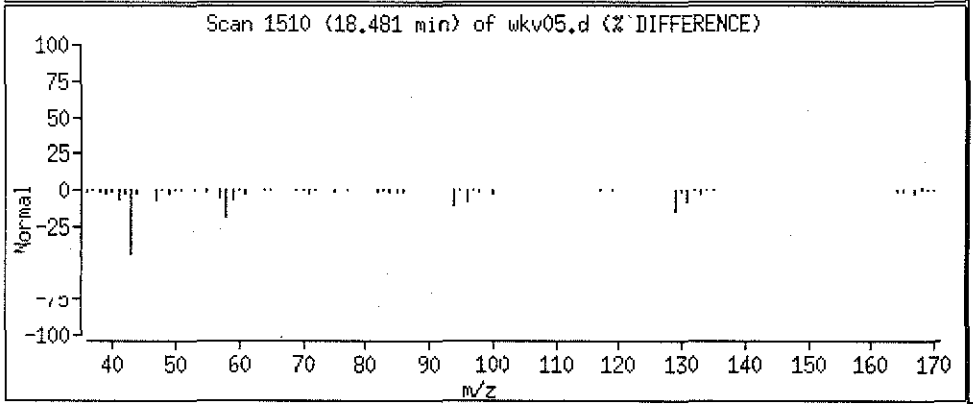
Column diameter: 2.00

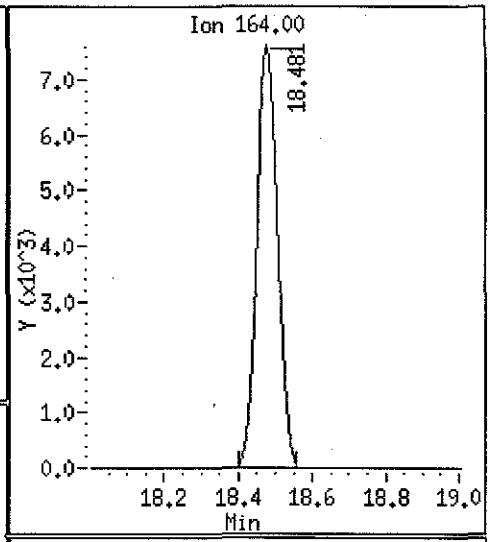
52 Tetrachloroethene

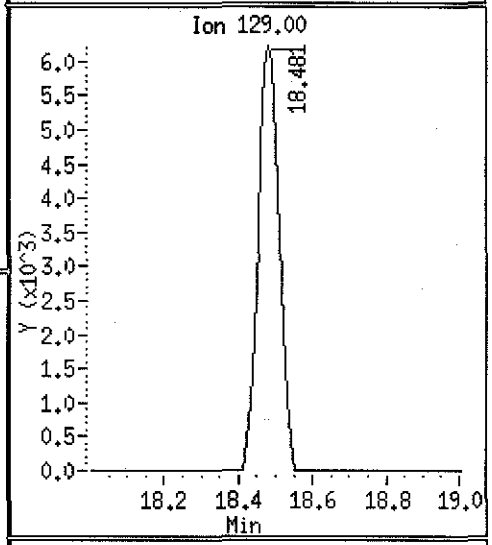


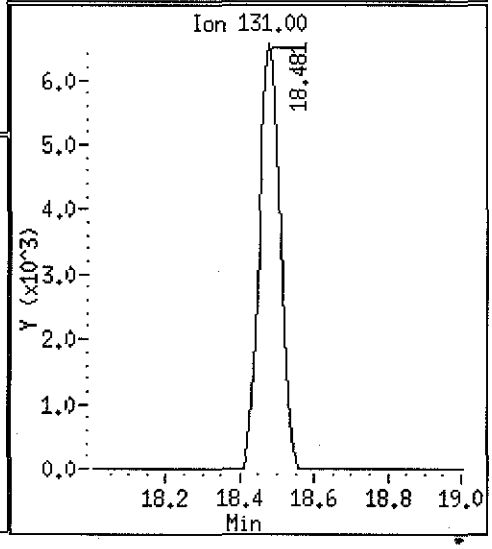












Gulf Coast

Unknown Compounds Quantitation Report

Data file : /chem/gcl2.i/950419a.b/wkv05.d
Lab Smp Id:
Inj Date : 20-APR-1995 01:32
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 9504G211-001 BXC419
Misc Info : GCL#2,DIL=1,5ML SMP+5ULIS,SS
Comment :
Method : /chem/gcl2.i/950419a.b/8240w2.m
Meth Date : 19-Apr-1995 22:11 petruszj
Cal Date : 19-APR-1995 21:30 Cal File: yc419.d
Als bottle: 1
Dil Factor: 1.000 Target Version: 3.12
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

ISTD	RT	AREA	AMOUNT
* 56 Chlorobenzene-d5	20.006	148126	50.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Benzene, 1-ethyl-2-methyl-				CAS #: 611-14-3			
22.951	317860	107.3	107.3	94	NBS75K.1	64557	56
Decane				CAS #: 124-18-5			
23.101	1073698	362.4	362.4	97	NBS75K.1	66204	56
Decane, 4-methyl-				CAS #: 2847-72-5			
23.707	435305	146.9	146.9	91	NBS75K.1	67324	56
Benzene, 1,3,5-trimethyl-				CAS #: 108-67-8			
23.896	313698	105.9	105.9	94	NBS75K.1	64571	56
Decane, 2-methyl-				CAS #: 6975-98-0			
24.722	548780	185.2	185.2	94	NBS75K.1	67320	56
Decane, 3-methyl-				CAS #: 13151-34-3			
24.921	508736	171.7	171.7	96	NBS75K.1	67315	56

		CONCENTRATIONS			QUANT		
	AREA	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Benzene, 1,2-diethyl-					CAS #: 135-01-3		
25.180	378160	127.6	127.6	97	NBS75K.l	65561	56
Benzene, 1,4-diethyl-					CAS #: 105-05-5		
25.369	445142	150.2	150.2	92	NBS75K.l	65558	56
Undecane					CAS #: 1120-21-4		
25.628	2426908	819.2	819.2	91	NBS75K.l	67317	56
Cyclohexane, 1,2,3-trimethyl-					CAS #: 1678-97-3		
25.757	394060	133.0	133.0	58	NBS75K.l	4646	56
Dodecane					CAS #: 112-40-3		
26.017	916733	309.4	309.4	49	NBS75K.l	68252	56
Benzene, 1-methyl-4-(1-methylethyl)-					CAS #: 99-87-6		
26.176	342686	115.7	115.7	94	NBS75K.l	6201	56
1-Iodo-2-methylnonane					CAS #: 0-00-0		
26.306	351543	118.7	118.7	80	NBS75K.l	37255	56
Cyclohexane, pentyl-					CAS #: 4292-92-6		
[illegible]	694638	234.5	234.5	52	NBS75K.l	67185	56
Benzene, 1,2,4,5-tetramethyl-					CAS #: 95-93-2		
27.193	356964	120.5	120.5	94	NBS75K.l	6222	56

Data File: /chem/gcl2.i/950419a.b/wkv05.d

Date : 20-APR-1995 01:32

lient ID:

Instrument: gcl2.i

ample Info: 9504G211-001 BXC419

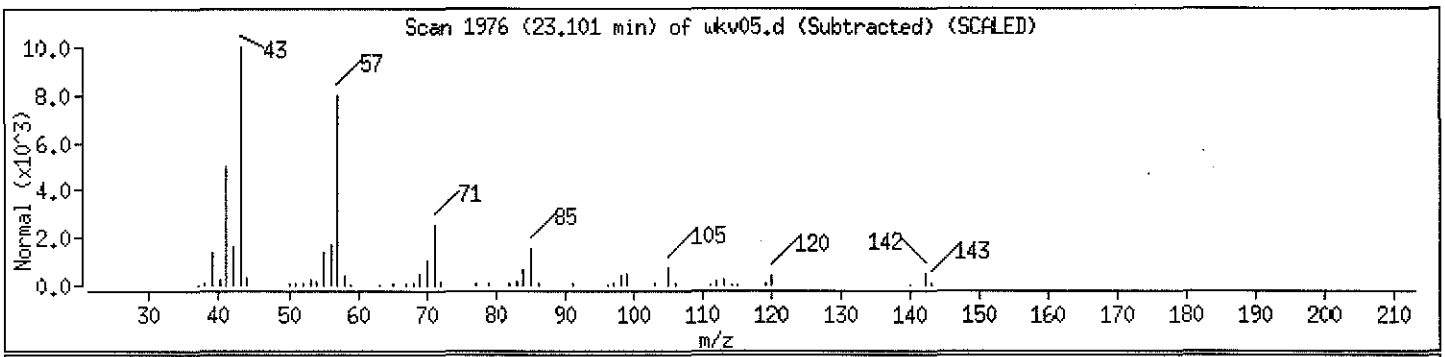
Purge Volume: 5.0

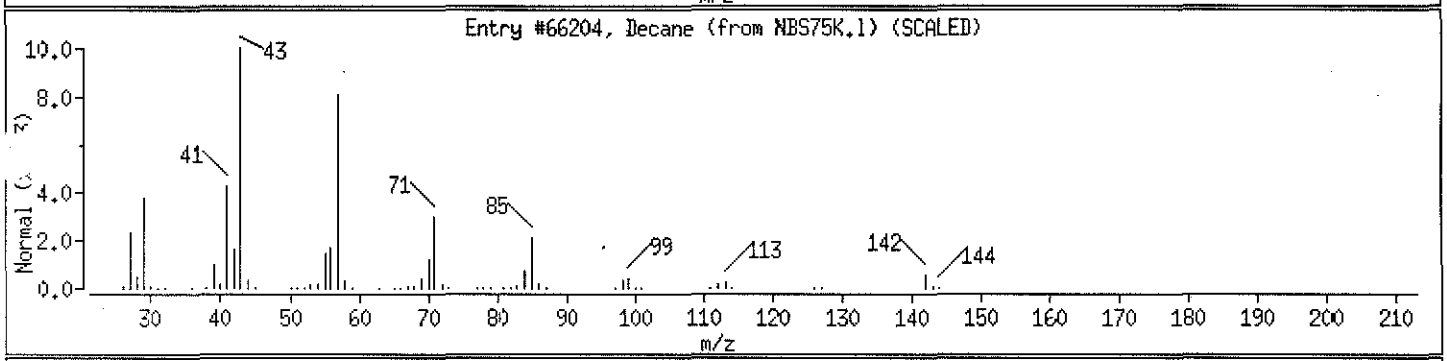
Operator: MANAGER MS

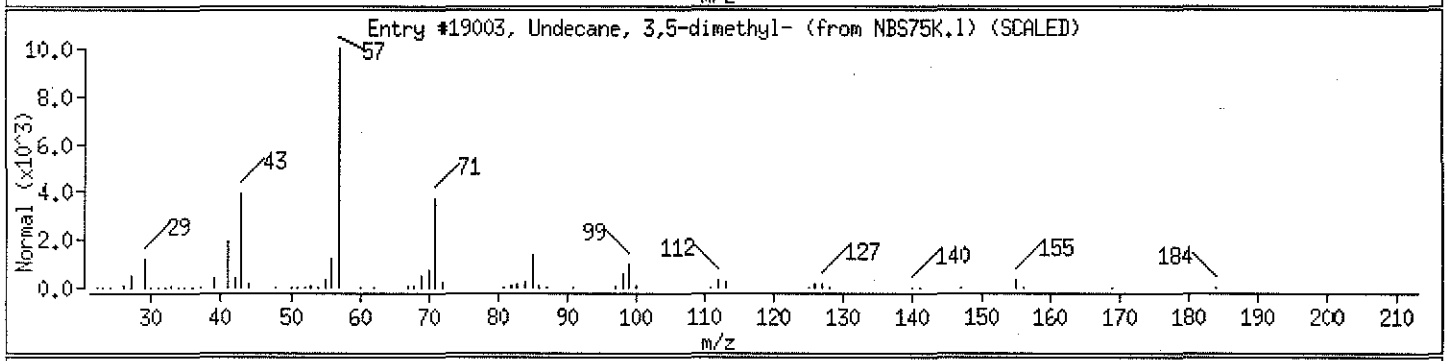
Column phase:

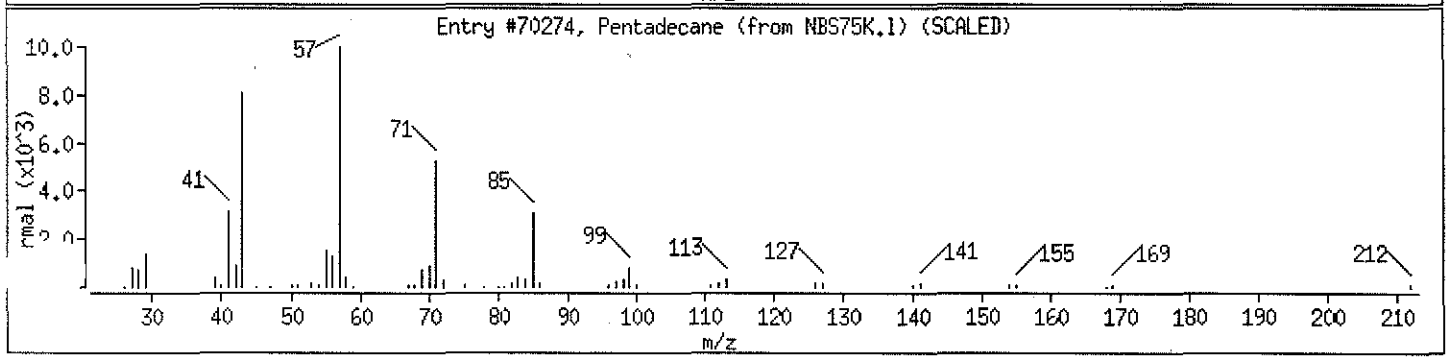
Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane	124-18-5	NBS75K.l	66204	97	C10H22	142
Undecane, 3,5-dimethyl-	17312-81-1	NBS75K.l	19003	59	C13H28	184
Pentadecane	629-62-9	NBS75K.l	70274	59	C15H32	212









Data File: /chem/gcl2.i/950419a.b/wkv05.d

Date : 20-APR-1995 01:32

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-001 BXC419

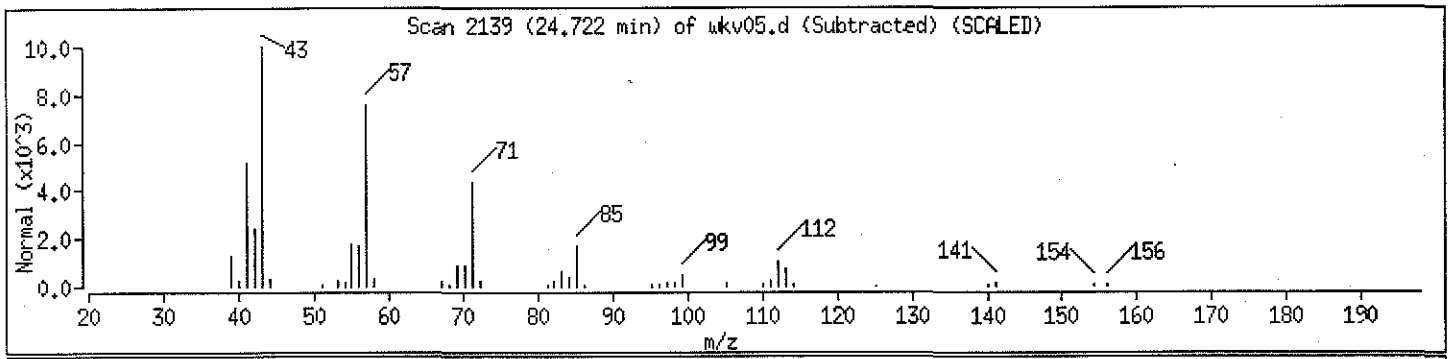
Purge Volume: 5.0

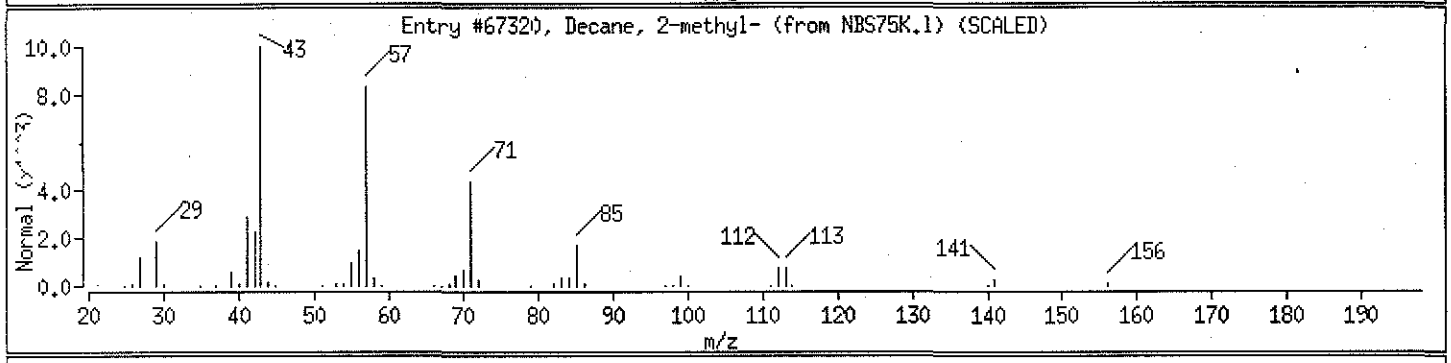
Operator: MANAGER MS

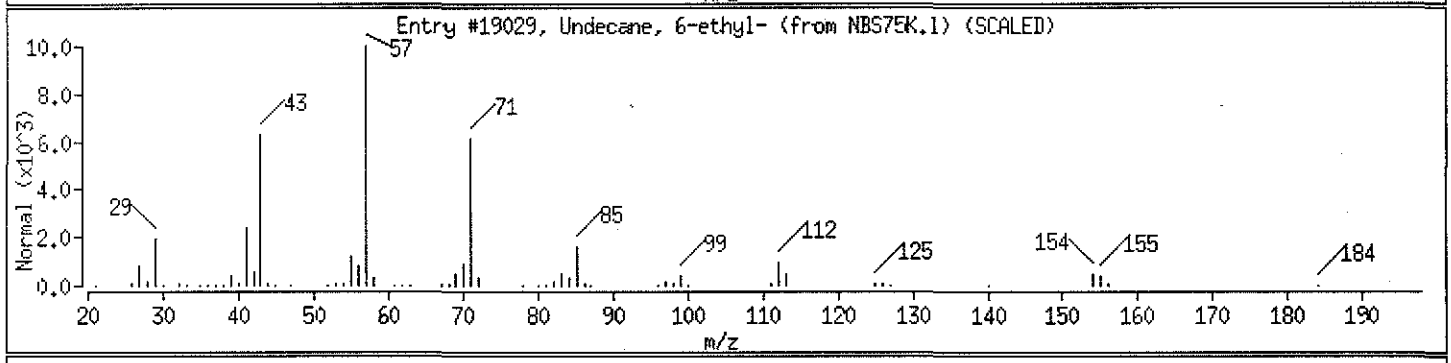
Column phase:

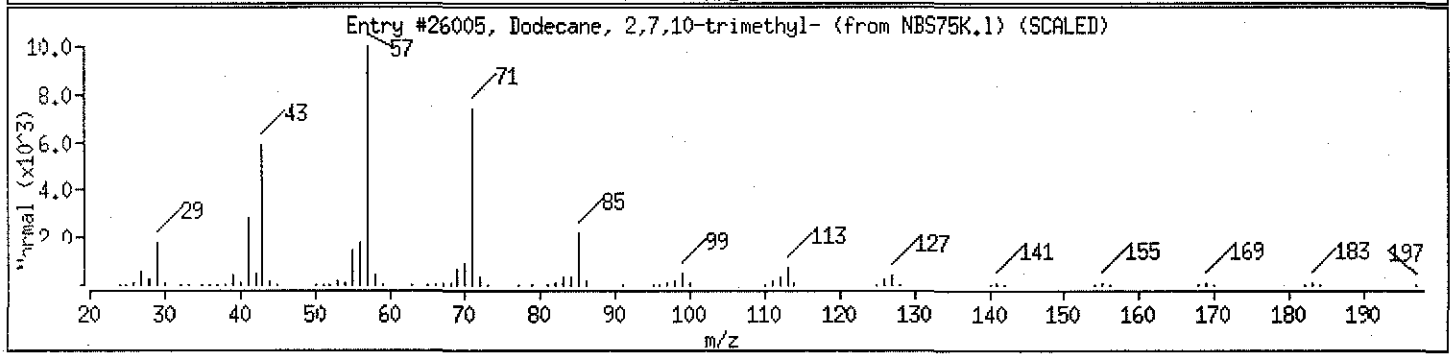
Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Decane, 2-methyl-	6975-98-0	NBS75K.l	67320	94	C11H24	156
Undecane, 6-ethyl-	17312-60-6	NBS75K.l	19029	64	C13H28	184
Dodecane, 2,7,10-trimethyl-	74645-98-0	NBS75K.l	26005	59	C15H32	212









Data File: /chem/gcl2.i/950419a.b/ukv05.d

Date : 20-APR-1995 01:32

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-001 BXC419

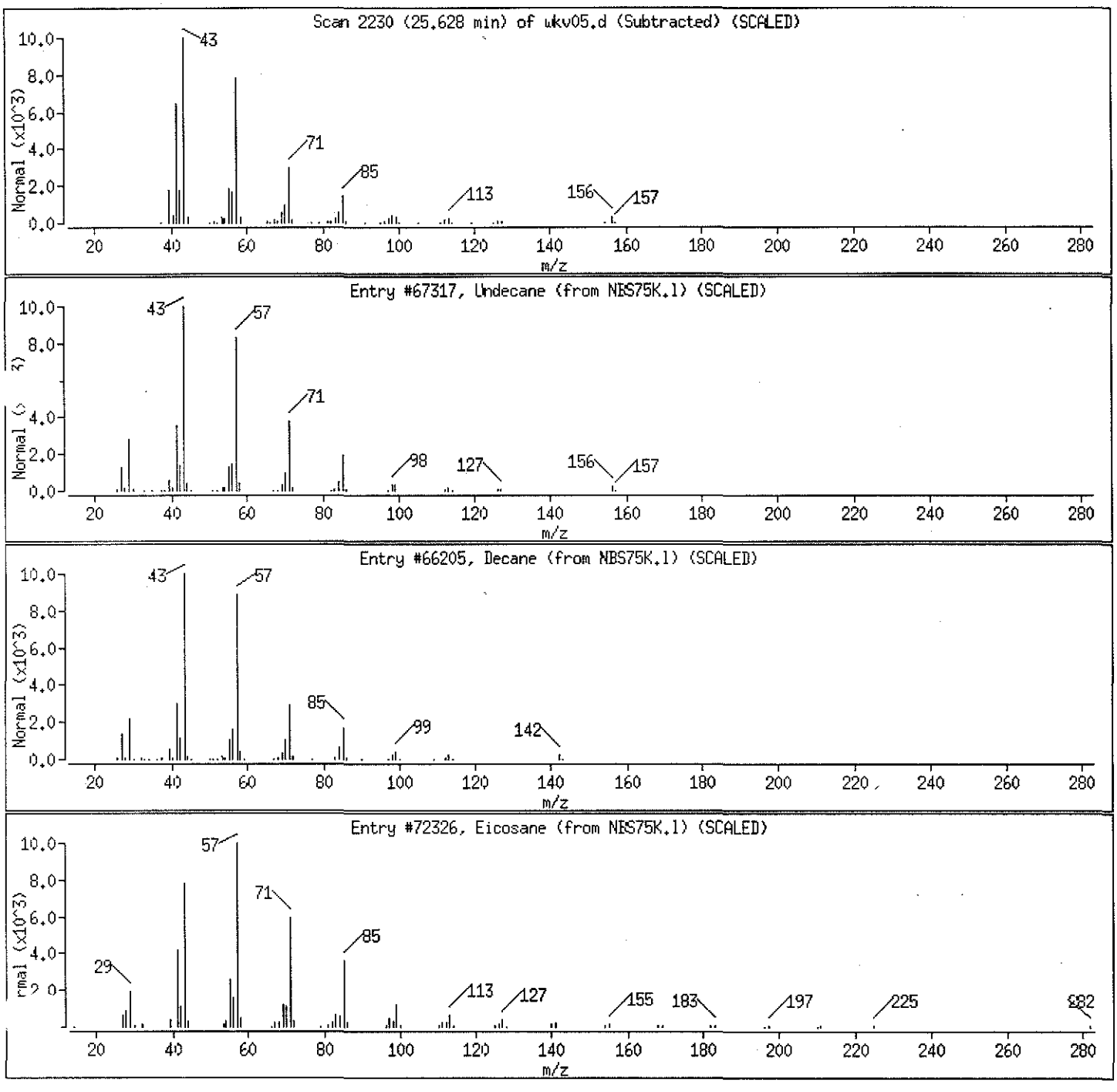
Purge Volume: 5.0

Operator: MANAGER MS

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Undecane	1120-21-4	NBS75K.l	67317	91	C11H24	156
Decane	124-18-5	NBS75K.l	66205	90	C10H22	142
Eicosane	112-95-8	NBS75K.l	72326	78	C20H42	282



Data File: /chem/gcl2.i/950419a.b/wkv05.d

Date : 20-APR-1995 01:32

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-001 BXC419

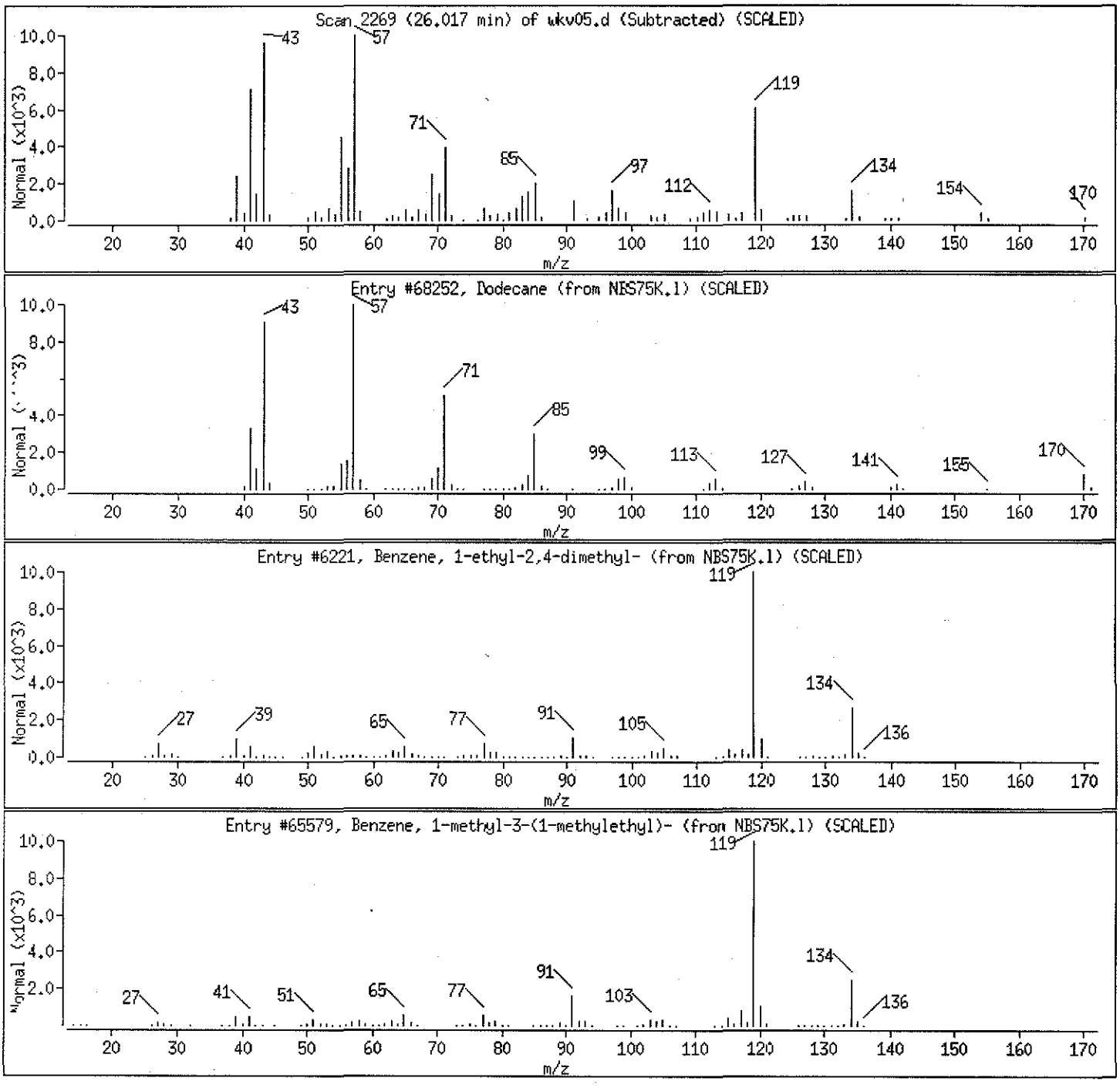
Purge Volume: 5.0

Operator: MANAGER MS

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Dodecane	112-40-3	NBS75K.l	68252	49	C12H26	170
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NBS75K.l	6221	25	C10H14	134
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NBS75K.l	65579	25	C10H14	134



Data File: /chem/gcl2.i/950419a.b/wkv05.d

Date : 20-APR-1995 01:32

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-001 BXC419

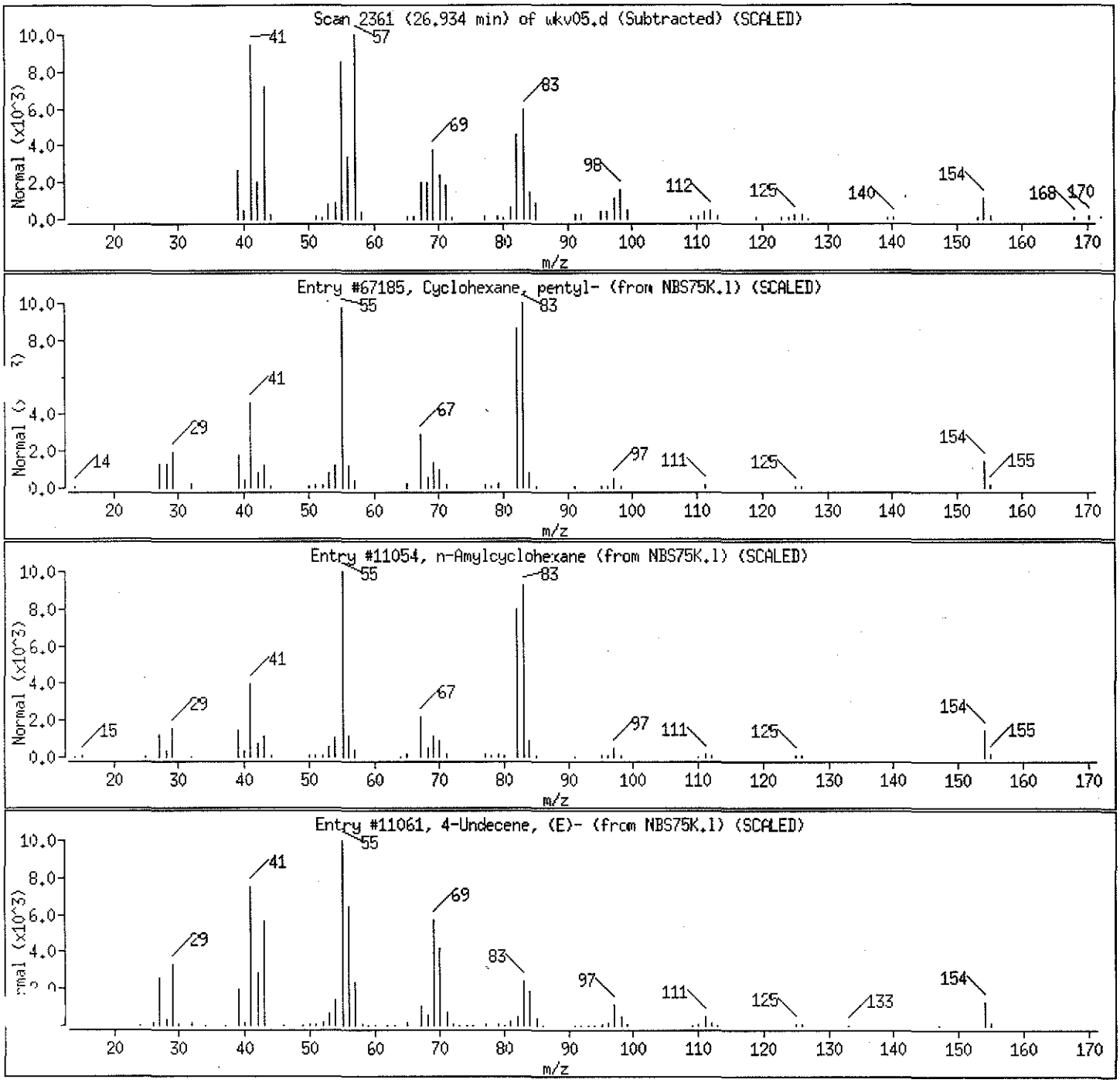
Purge Volume: 5.0

Operator: MANAGER MS

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, pentyl-	4292-92-6	NBS75K.l	67185	52	C11H22	154
n-Amylcyclohexane	29949-27-7	NBS75K.l	11054	49	C11H22	154
4-Undecene, (E)-	693-62-9	NBS75K.l	11061	38	C11H22	154



1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-GWSDL

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-001 DL

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BWKV18

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. _____

Date Analyzed: 04/21/95

Column: (pack/cap) PACK

Dilution Factor: 10.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	300	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	NA	
107-06-2	1,2-Dichloroethane	NA	
78-93-3	2-Butanone	NA	
71-55-6	1,1,1-Trichloroethane		E
56-23-5	Carbon Tetrachloride	NA	
108-05-4	Vinyl acetate	NA	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	NA	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
10061-02-6	trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	NA	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-GWSDL

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-001 DL

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BWKV18

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. _____

Date Analyzed: 04/21/95

Column: (pack/cap) PACK

Dilution Factor: 10.0

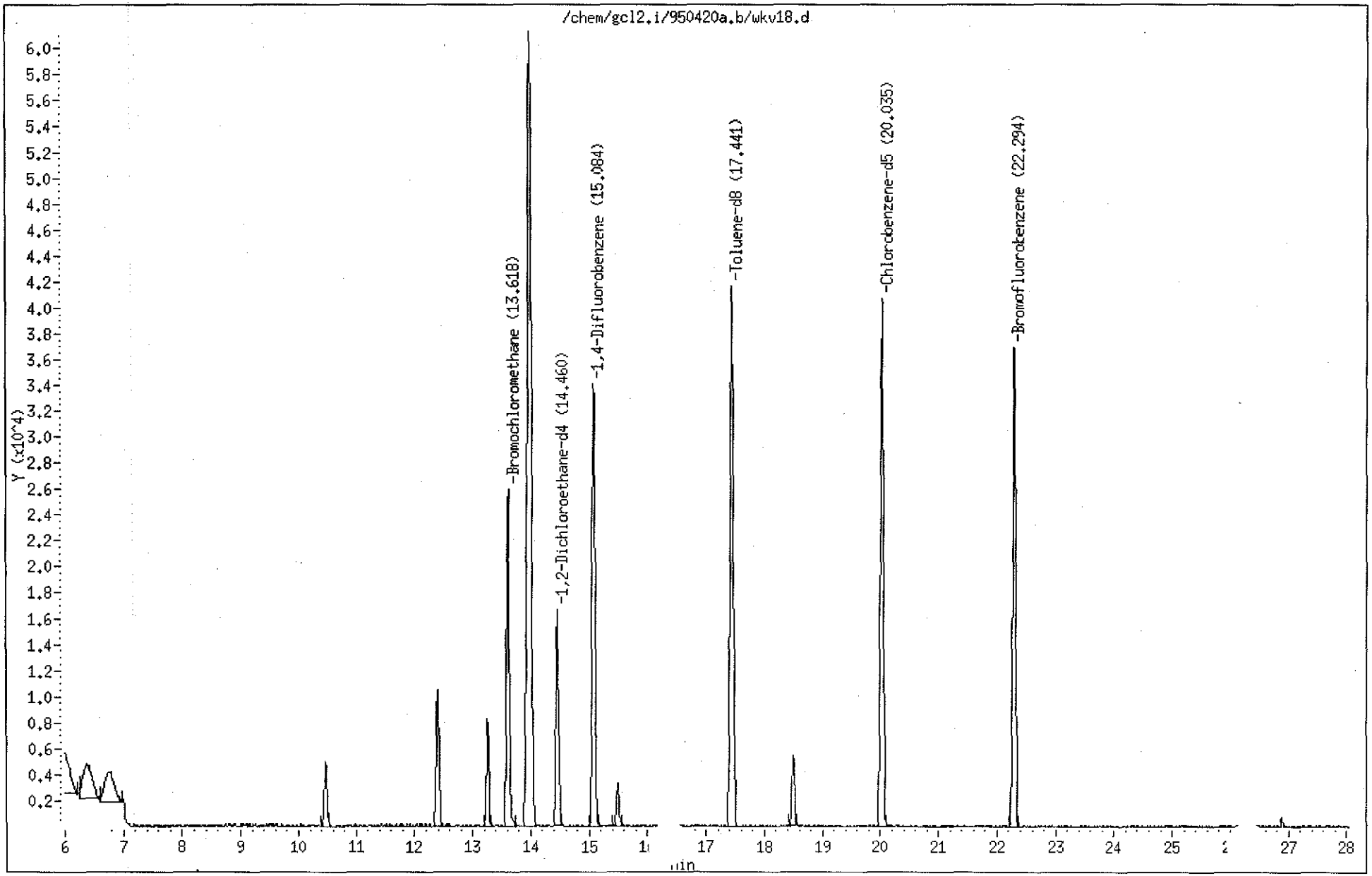
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
107-02-8	Acrolein	NA	
107-13-1	Acrylonitrile	NA	
75-69-4	Trichlorofluoromethane	NA	
75-71-8	Dichlorodifluoromethane	NA	
75-05-8	Acetonitrile	NA	
74-88-4	Iodomethane	NA	
107-12-0	Propionitrile (Ethyl Cyanide)	NA	
107-05-1	3-Chloropropene	NA	
126-98-7	Methacrylonitrile	NA	
74-95-3	Dibromomethane	NA	
78-83-1	Isobutyl alcohol	NA	
106-93-4	1,2-Dibromoethane	NA	
630-20-6	1,1,1,2-Tetrachloroethane	NA	
96-18-4	1,2,3-Trichloropropane	NA	
110-57-6	trans-1,4-Dichloro-2-butene	NA	
96-12-8	1,2-Dibromo-3-chloropropane	NA	
126-99-8	2-Chloro-1,3-Butadiene	NA	
80-62-6	Methylmethacrylate	NA	
97-63-2	Ethylmethacrylate	NA	
76-01-7	Pentachloroethane	NA	

FORM 1 V-2 12/88 Rev.

Data File: /chem/gcl2.i/950420a.b/wkv18.d
Date : 21-APR-1995 00:49
Client ID:
Sample Info: 9504G211-001 BXC420
Purge Volume: 5.0
Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950420a.b/wkv18.d
Lab Smp Id:
Inj Date : 21-APR-1995 00:49
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 9504G211-001 BXC420
Misc Info : GCL#2,DIL=10,500ULSMP+5ULIS,SS
Comment :
Method : /chem/gcl2.i/950420a.b/8240w2.m
Meth Date : 20-Apr-1995 21:32 petruszj Quant Type: ISTD
Cal Date : 20-APR-1995 20:38 Cal File: yb420.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * 1

Name	Value	Description
Uf	1.000	ng unit correction factor

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	11 1,1-Dichloroethene	96.00	10.478	10.473	(0.769)	3801	15.89	15.89
	19 1,1-Dichloroethane	63.00	12.409	12.415	(0.911)	21478	30.02	30.02
	21 1,2-Dichloroethene (total)	96.00	13.261	13.267	(0.974)	6251	20.48	20.48
	22 cis-1,2-Dichloroethene	96.00	13.261	13.267	(0.974)	6251	15.76	15.76
*	27 Bromochloromethane	127.80	13.618	13.624	(1.000)	10527	50.00	
	29 1,1,1-Trichloroethane	97.00	13.974	13.990	(0.926)	88021	219.4	219.4
	30 Carbon Tetrachloride	116.80	13.974	14.228	(0.926)	13117	36.15	36.15
$	33 1,2-Dichloroethane-d4	65.00	14.460	14.476	(1.062)	17610	54.30	54.30
*	36 1,4-Difluorobenzene	114.00	15.084	15.100	(1.000)	51458	50.00	
	38 Trichloroethene	130.00	15.500	15.517	(1.028)	2485	5.71	5.71
$	46 Toluene-d8	98.00	17.441	17.460	(0.871)	52942	50.73	50.73
	52 Tetrachloroethene	164.00	18.500	18.522	(0.924)	3103	8.42	8.42
*	56 Chlorobenzene-d5	117.00	20.026	20.049	(1.000)	47320	50.00	
$	64 Bromofluorobenzene	95.00	22.304	22.311	(1.114)	30123	49.65	49.65

Data File: /chem/gcl2.i/950420a.b/wkv18.d

Date : 21-APR-1995 00:49

ient ID:

Instrument: gcl2.i

Sample Info: 9504G211-001 BXC420

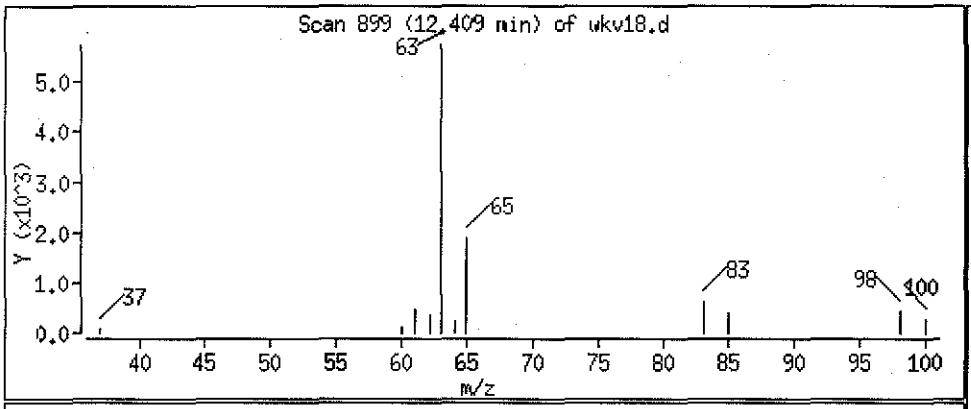
Purge Volume: 5.0

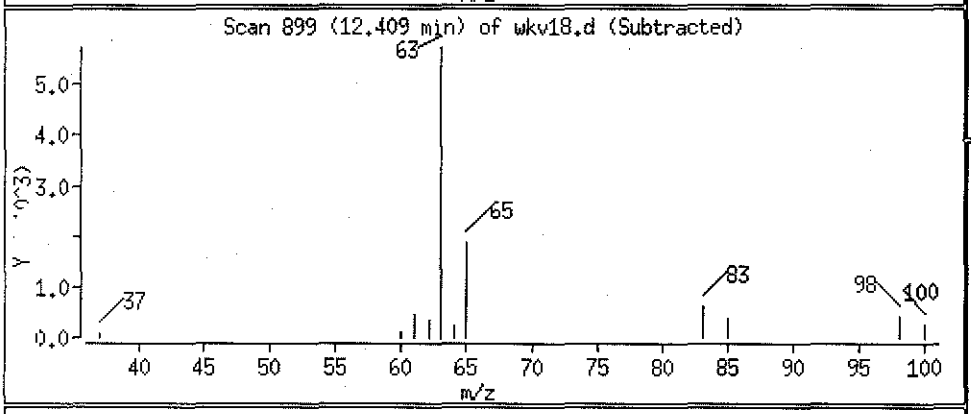
Operator: MANAGER MS

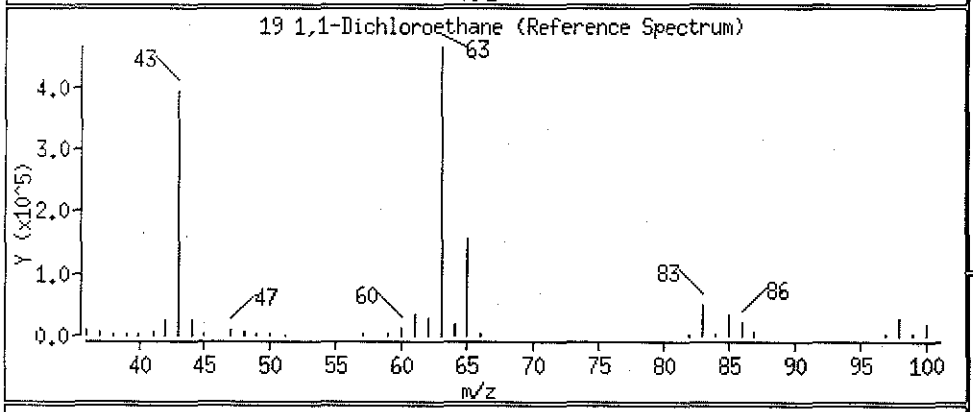
Column phase:

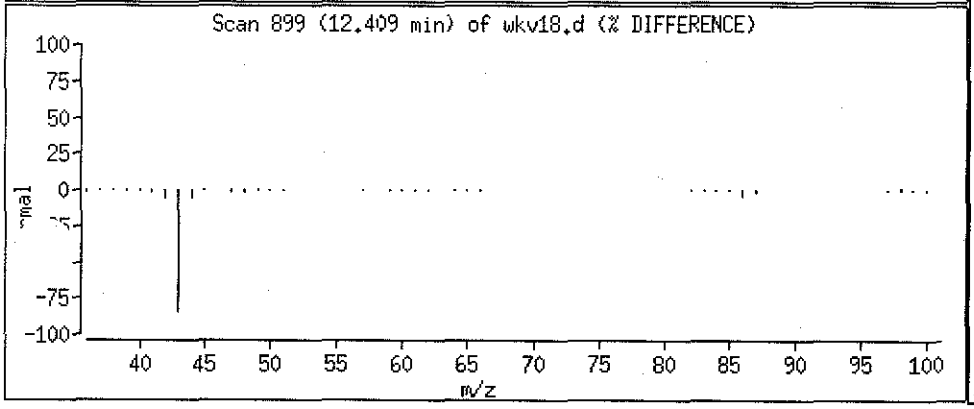
Column diameter: 2.00

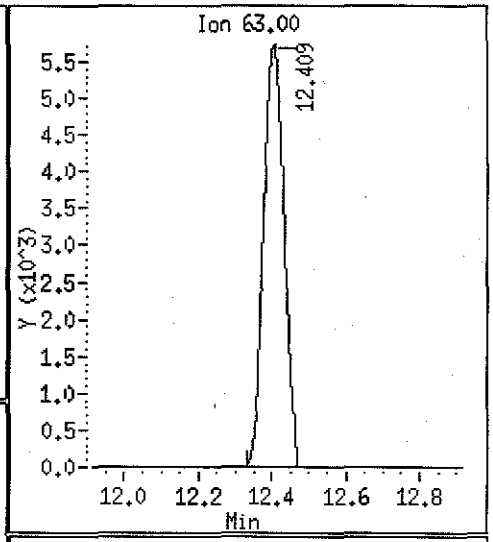
19 1,1-Dichloroethane

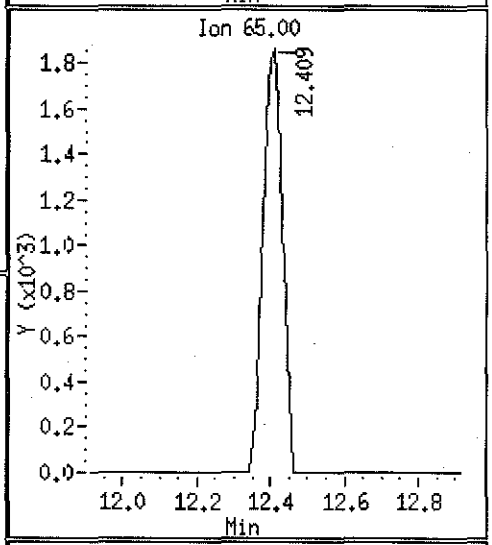


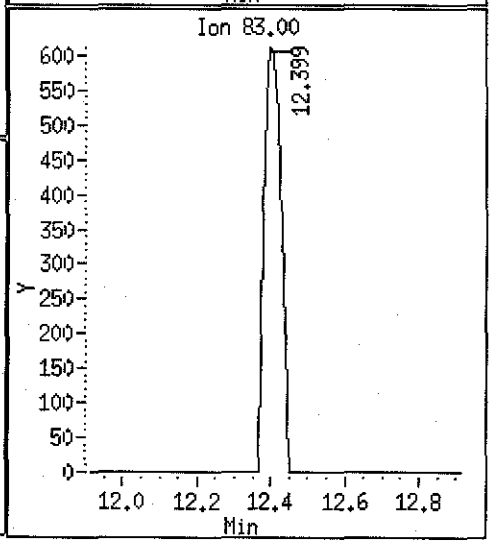












Data File: /chem/gcl2.i/950420a.b/wkv18.d

Date : 21-APR-1995 00:49

ient ID:

Instrument: gcl2.i

Sample Info: 9504G211-001 BXC420

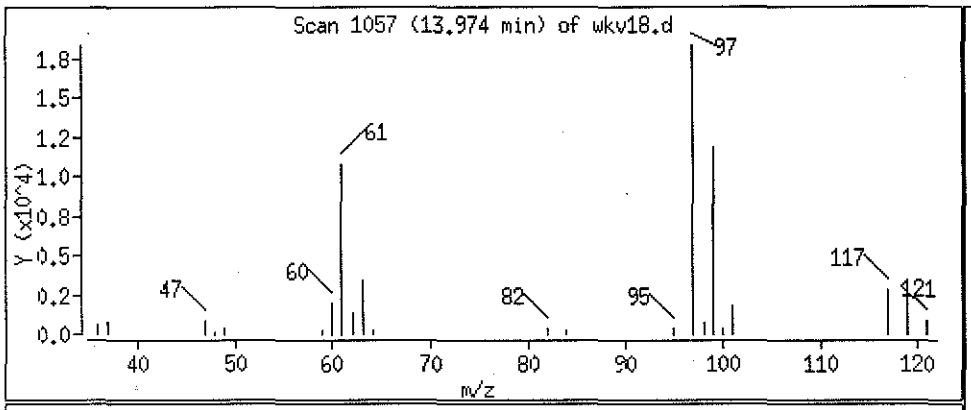
Purge Volume: 5.0

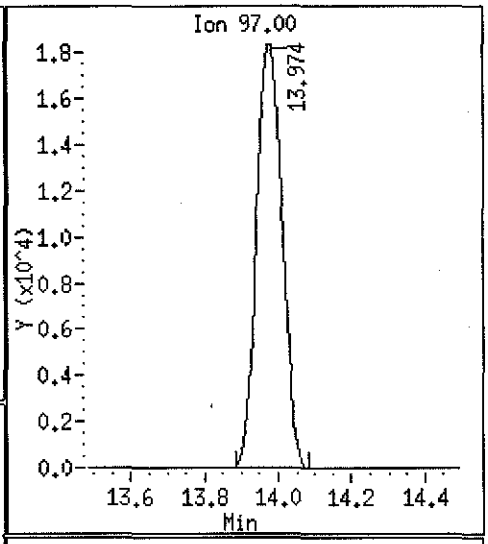
Operator: MANAGER MS

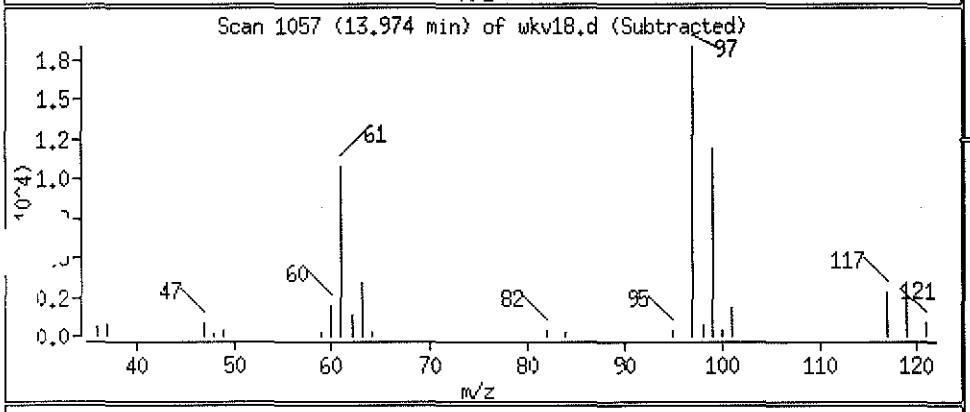
Column phase:

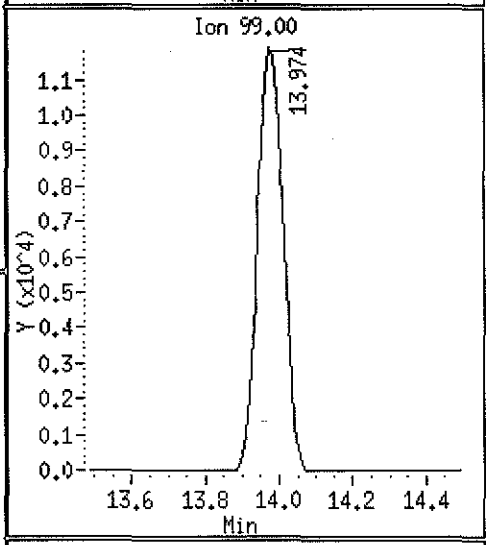
Column diameter: 2.00

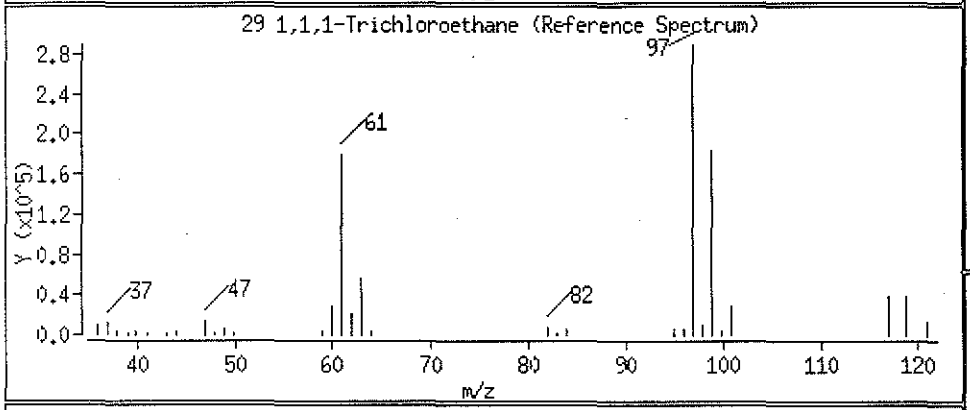
29 1,1,1-Trichloroethane

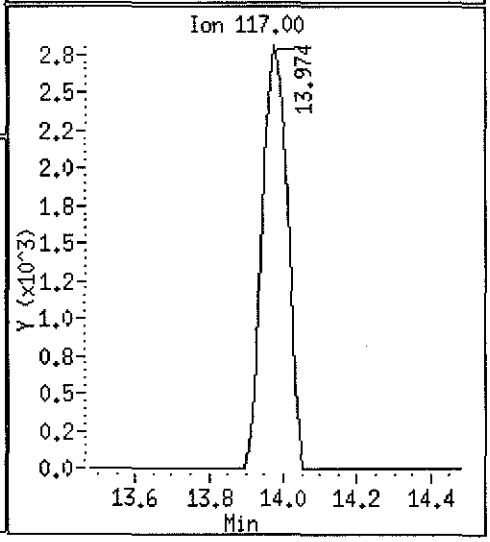


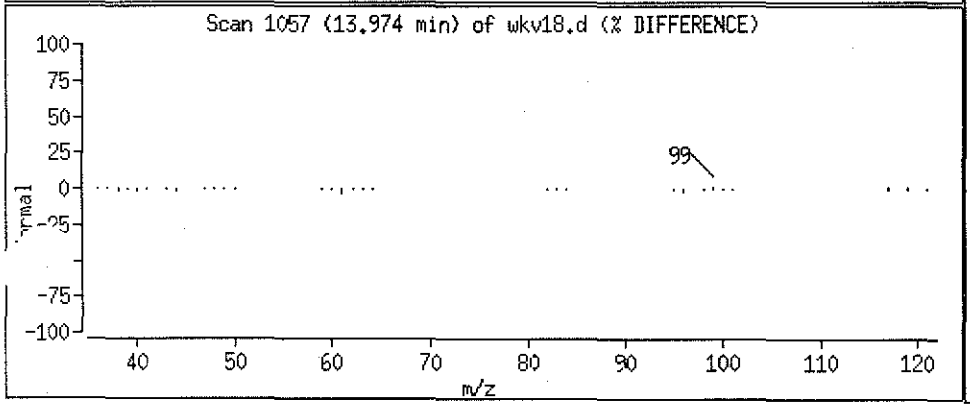












1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-GWSDL

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-001 DL

Sample wt/vol: 5 (g/mL) ML

Lab File ID: EWKV21

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. _____

Date Analyzed: 04/22/95

Column: (pack/cap) CAP

Dilution Factor: 25.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	NA	
107-06-2	1,2-Dichloroethane	NA	
78-93-3	2-Butanone	NA	
71-55-6	1,1,1-Trichloroethane	2200	
56-23-5	Carbon Tetrachloride	NA	
108-05-4	Vinyl acetate	NA	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	NA	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
10061-02-6	trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	NA	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-GWSDL

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-001 DL

Sample wt/vol: 5 (g/mL) ML

Lab File ID: EWKV21

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. _____

Date Analyzed: 04/22/95

Column: (pack/cap) CAP

Dilution Factor: 25.0

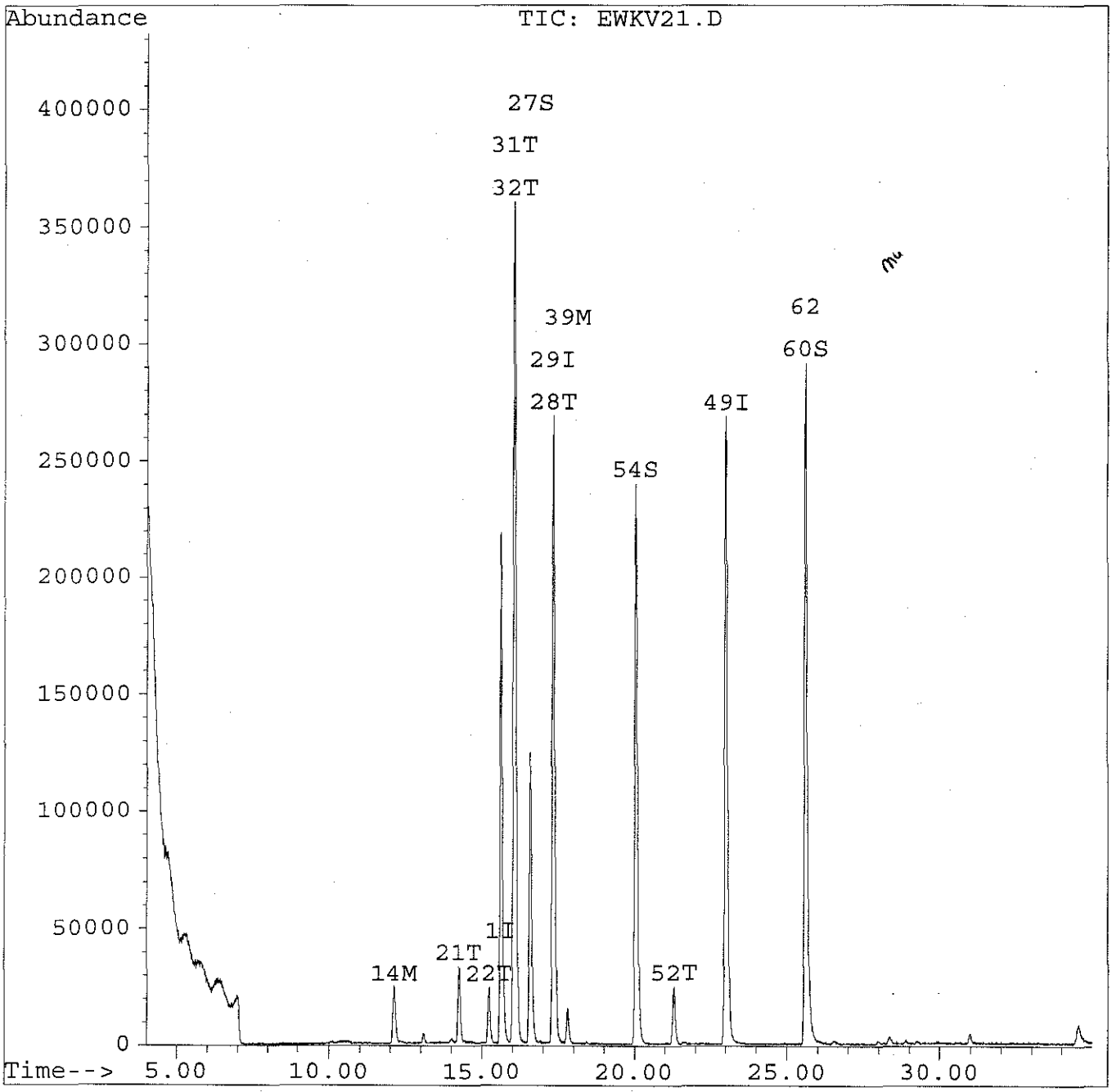
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
107-02-8	Acrolein	NA	
107-13-1	Acrylonitrile	NA	
75-69-4	Trichlorofluoromethane	NA	
75-71-8	Dichlorodifluoromethane	NA	
75-05-8	Acetonitrile	NA	
74-88-4	Iodomethane	NA	
107-12-0	Propionitrile (Ethyl Cyanide)	NA	
107-05-1	3-Chloropropene	NA	
126-98-7	Methacrylonitrile	NA	
74-95-3	Dibromomethane	NA	
78-83-1	Isobutyl alcohol	NA	
106-93-4	1,2-Dibromoethane	NA	
630-20-6	1,1,1,2-Tetrachloroethane	NA	
96-18-4	1,2,3-Trichloropropane	NA	
110-57-6	trans-1,4-Dichloro-2-butene	NA	
96-12-8	1,2-Dibromo-3-chloropropane	NA	
126-99-8	2-Chloro-1,3-Butadiene	NA	
80-62-6	Methylmethacrylate	NA	
97-63-2	Ethylmethacrylate	NA	
76-01-7	Pentachloroethane	NA	

FORM 1 V-2 12/88 Rev.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2195A\EWKV21.D Vial: 10
Acq On : 22 Apr 95 2:49 am Operator:
Sample : 9504G211-001 EAB421 Inst : gcms5
Misc : GCL#5,DIL=25,200UL SMP+5ULIS,SS +5MLOFW Multiplr: 1.00
Quant Time: Apr 22 3:25 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Apr 21 23:37:58 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2195A\EWKV21.D Vial: 10
Acq On : 22 Apr 95 2:49 am Operator:
Sample : 9504G211-001 EAB421 Inst : gcms5
Misc : GCL#5,DIL=25,200UL SMP+5ULIS,SS +5MLOFW Multiplr: 1.00
Quant Time: Apr 22 3:25 1995

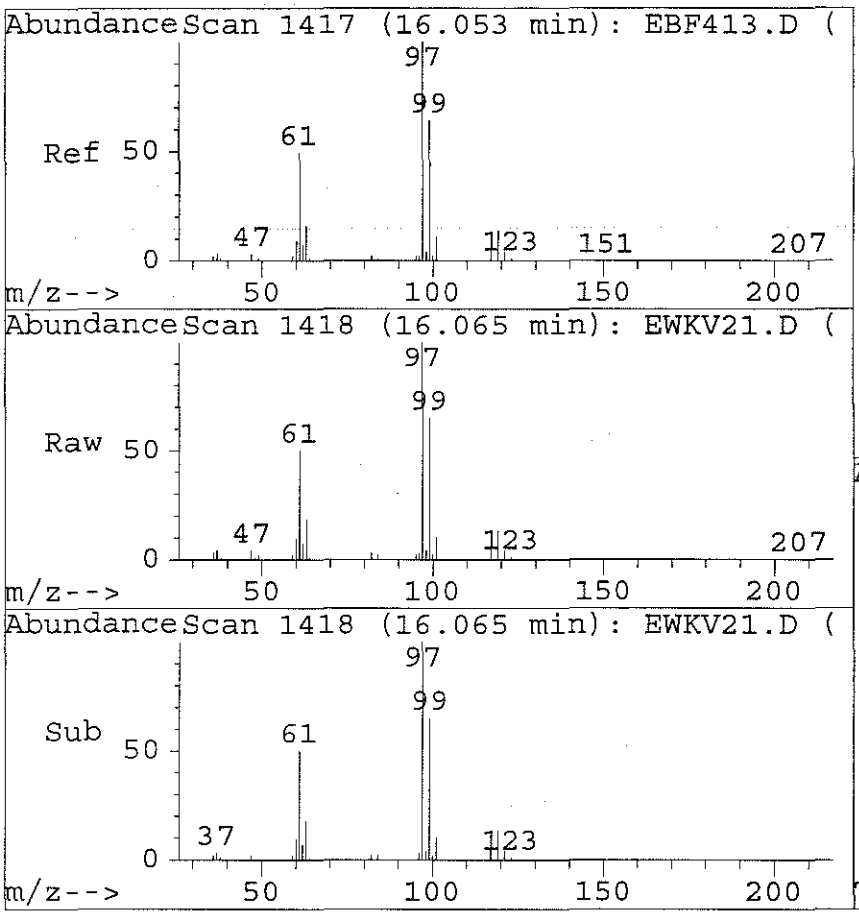
DJL

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Apr 21 23:37:58 1995
Response via : Single Level Calibration

mc

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	15.61	128	161959	50.00	ug/l		-0.02
29) 1,4-Difluorobenzene	17.32	114	587417	50.00	ug/l		0.00
49) Chlorobenzene-d5	23.00	117	483680	50.00	ug/l		0.00
70) bromochloromethane	15.61	128	161959	0.00	ug/l		-0.02
System Monitoring Compounds							%Recovery
27) 1,2-Dichloroethane-d4	16.58	65	256203	45.59	ug/l		91.19%
54) Toluene-d8	20.03	98	484397	47.84	ug/l		95.69%
60) Bromofluorobenzene	25.59	95	368762	46.03	ug/l		92.06%
Target Compounds							Qvalue
~~14~~) 1,1-Dichloroethene	12.12	96	29746	8.03	ug/l	#	83
81) 1,1-Dichloroethane	14.24	63	81064	11.30	ug/l		99
~~22~~) 1,2-Dichloroethene (total)	15.22	96	26380	6.13	ug/l		96
~~28~~) 1,2-Dichloroethane	17.31	62	10401	1.61	ug/l	#	1
31) 1,1,1-Trichloroethane	16.06	97	685959	86.95	ug/l		99
~~32~~) Carbon Tetrachloride	16.06	117	89221	11.06	ug/l		96
~~39~~) Trichloroethene	17.81	130	13372	2.32	ug/l		97
~~52~~) Tetrachloroethene	21.28	164	17675	3.17	ug/l		100
~~62~~) 1,2,3-Trichloropropane	25.60	75	196235	29.77	ug/l	#	51

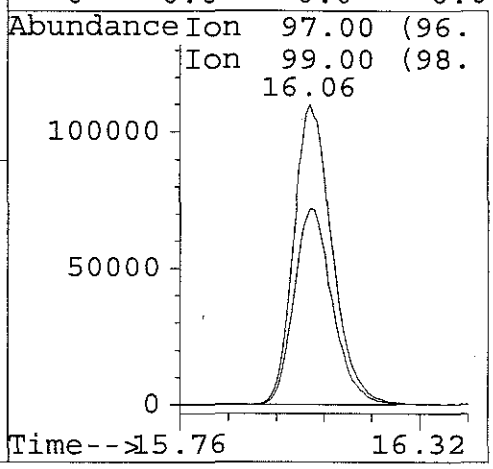
(#) = qualifier out of range (m) = manual integration

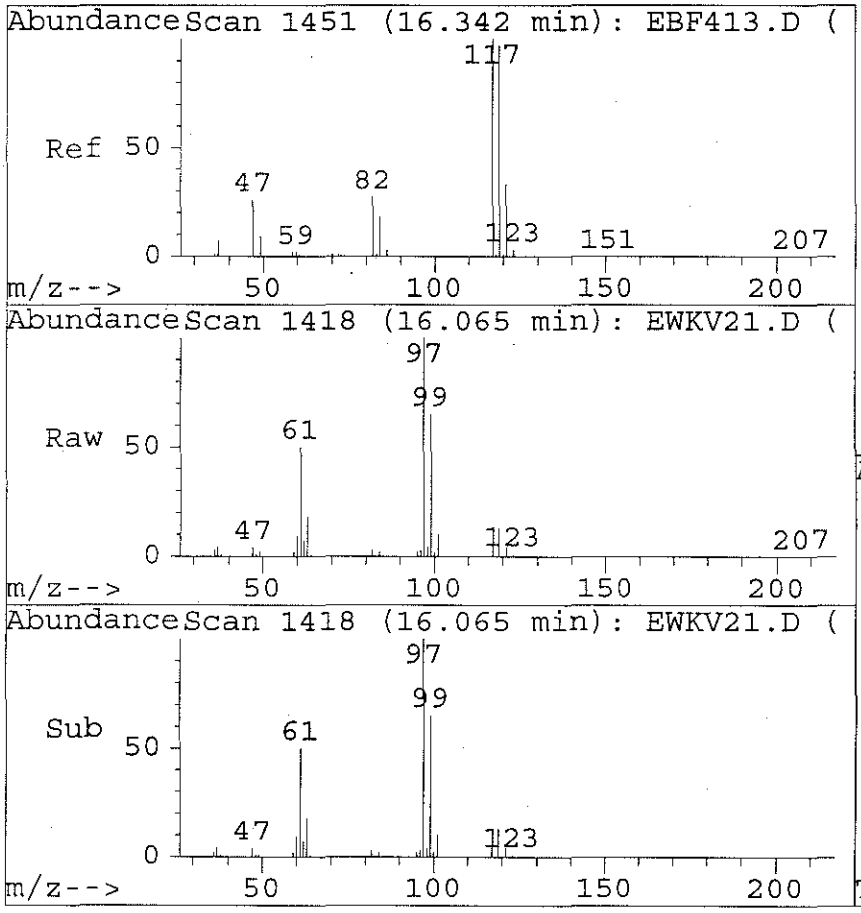


#31
1,1,1-Trichloroethane
Concen: 86.95 ug/l
RT: 16.06 min Scan# 1418
Delta R.T. -0.01 min
Lab File: EWKV21.D
Acq: 22 Apr 95 2:49 am

Tgt Ion:97 Resp: 685959

Ion	Ratio	Lower	Upper
97	100		
99	65.8	44.8	84.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

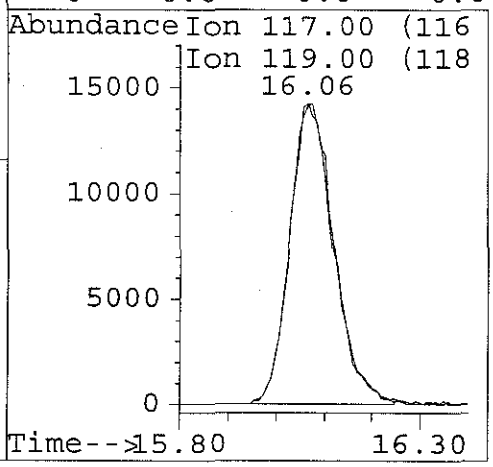




#32
Carbon Tetrachloride
Concen: 11.06 ug/l
RT: 16.06 min Scan# 1418
Delta R.T. -0.30 min
Lab File: EWKV21.D
Acq: 22 Apr 95 2:49 am

Tgt Ion:117 Resp: 89221

Ion	Ratio	Lower	Upper
117	100		
119	100.0	75.8	115.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0



1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-GWD

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-003

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BWKV08

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec.

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	13	
540-59-0	1,2-Dichloroethene (total)	8	
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	160	
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	31	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	30	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-GWD

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER Lab Sample ID: 9504G211-003

Sample wt/vol: 5 (g/mL) ML Lab File ID: BWKV08

Level: (low/med) LOW Date Received: 04/10/95

% Moisture: not dec. _____ Date Analyzed: 04/20/95

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	20	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	50	U
107-05-1	3-Chloropropene	20	U
126-98-7	Methacrylonitrile	20	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2000	U
106-93-4	1,2-Dibromoethane	20	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	20	U
97-63-2	Ethylmethacrylate	20	U
76-01-7	Pentachloroethane	20	U

FORM 1 V-2 12/88 Rev.

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TC2-BG06-GWD

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-003

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BWKV08

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec.

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

Number TICs found: 0

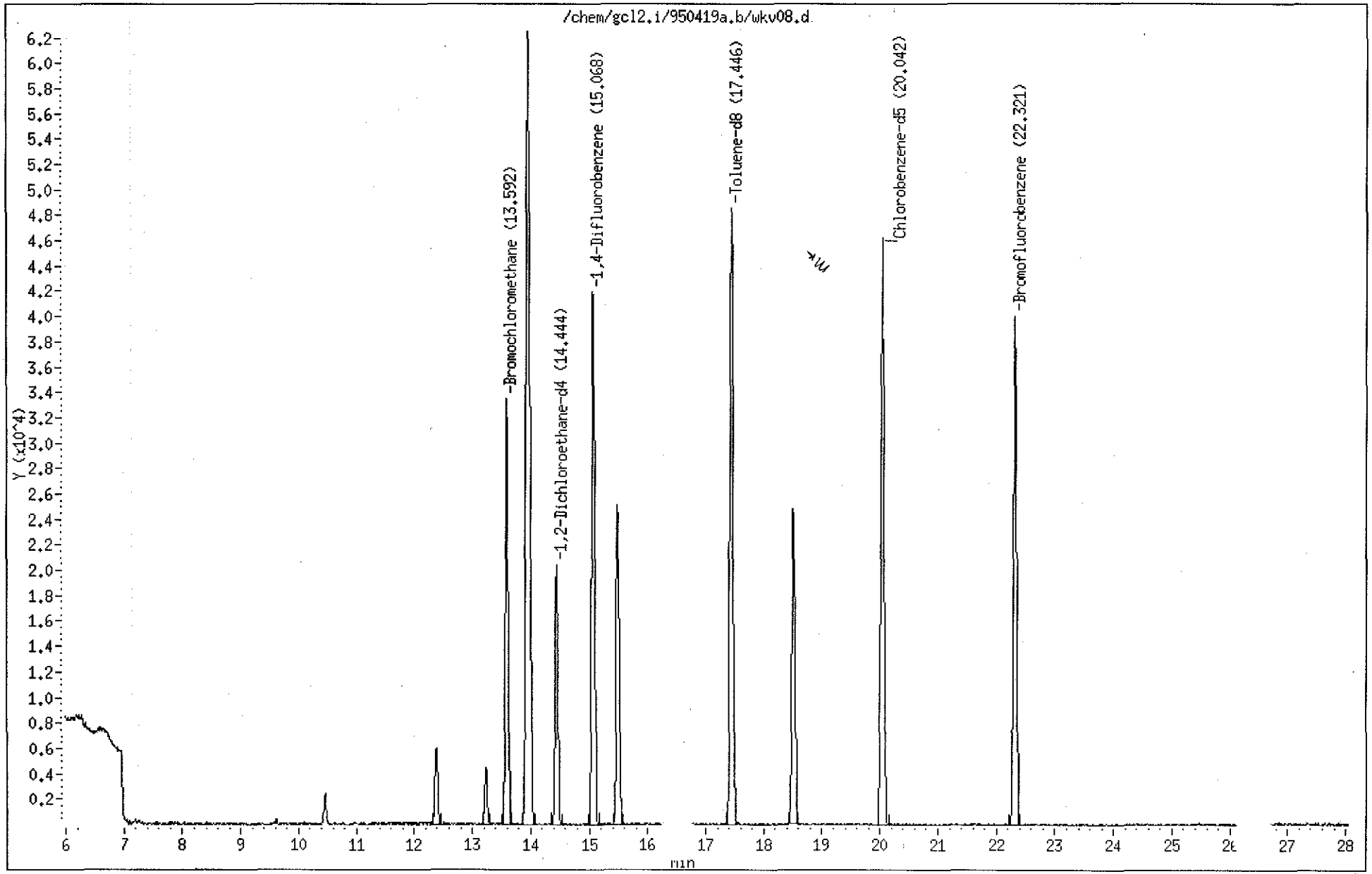
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

Data File: /chem/gc12.i/950419a.b/wkv08.d
Date : 20-APR-1995 03:20
Client ID:
Sample Info: 9504G211-003 BXC419
Purge Volume: 5.0
Column phase:

Instrument: gc12.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950419a.b/wkv08.d
Lab Smp Id:
Inj Date : 20-APR-1995 03:20
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 9504G211-003 BXC419
Misc Info : GCL#2,DIL=1,5ML SMP+5ULIS,SS
Comment :
Method : /chem/gcl2.i/950419a.b/8240w2.m
Meth Date : 19-Apr-1995 22:11 petruszj Quant Type: ISTD
Cal Date : 19-APR-1995 21:30 Cal File: yc419.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * 1

Name	Value	Description
Uf	1.000	ng unit correction factor

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	19 1,1-Dichloroethane	63.00	12.382	12.383	(0.911)	12869	13.50	13.50(M)
	21 1,2-Dichloroethene (total)	96.00	13.235	13.246	(0.974)	3219	7.67	7.67
	22 cis-1,2-Dichloroethene	96.00	13.235	13.246	(0.974)	3219	6.12	6.12
*	27 Bromochloromethane	127.80	13.592	13.593	(1.000)	12925	50.00	
	29 1,1,1-Trichloroethane	97.00	13.959	13.960	(0.926)	88097	162.0	162.0
	30 Carbon Tetrachloride	116.80	13.959	14.207	(0.926)	12752	26.11	26.11
$	33 1,2-Dichloroethane-d4	65.00	14.444	14.445	(1.063)	21959	56.91	56.91
*	36 1,4-Difluorobenzene	114.00	15.068	15.070	(1.000)	62916	50.00	
	38 Trichloroethene	130.00	15.484	15.486	(1.028)	17765	30.72	30.72
$	46 Toluene-d8	98.00	17.446	17.439	(0.870)	61861	53.18	53.18
	52 Tetrachloroethene	164.00	18.506	18.510	(0.923)	13875	30.31	30.31
*	56 Chlorobenzene-d5	117.00	20.042	20.037	(1.000)	52885	50.00	
$	64 Bromofluorobenzene	95.00	22.321	22.307	(1.114)	33436	48.62	48.62

QC Flag Legend

M - Compound response manually integrated.

Gulf Coast

Unknown Compounds Quantitation Report

Data file : /chem/gcl2.i/950419a.b/wkv08.d
Lab Smp Id:
Inj Date : 20-APR-1995 03:20
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 9504G211-003 BXC419
Misc Info : GCL#2,DIL=1,5ML SMP+5ULIS,SS
Comment :
Method : /chem/gcl2.i/950419a.b/8240w2.m
Meth Date : 19-Apr-1995 22:11 petruszj
Cal Date : 19-APR-1995 21:30 Cal File: yc419.d
Als bottle: 1
Dil Factor: 1.000 Target Version: 3.12
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

ISTD	RT	AREA	AMOUNT
* 27 Bromochloromethane	13.592	106794	50.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Ethane, 1,1-dichloro-				CAS #: 75-34-3			
12.382	20269	9.49	9.49	90	NBS75K.l	63162	27

Data File: /chem/gcl2.i/950419a.b/wkv08.d

Date : 20-APR-1995 03:20

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-003 BXC419

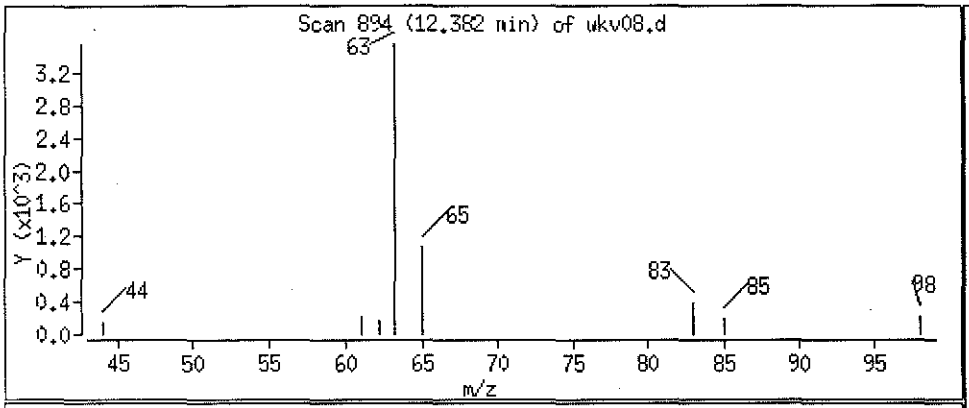
Purge Volume: 5.0

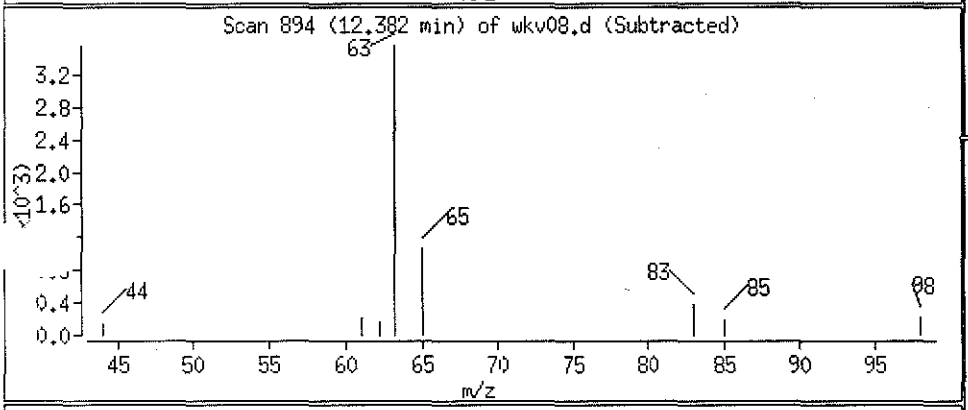
Operator: MANAGER MS

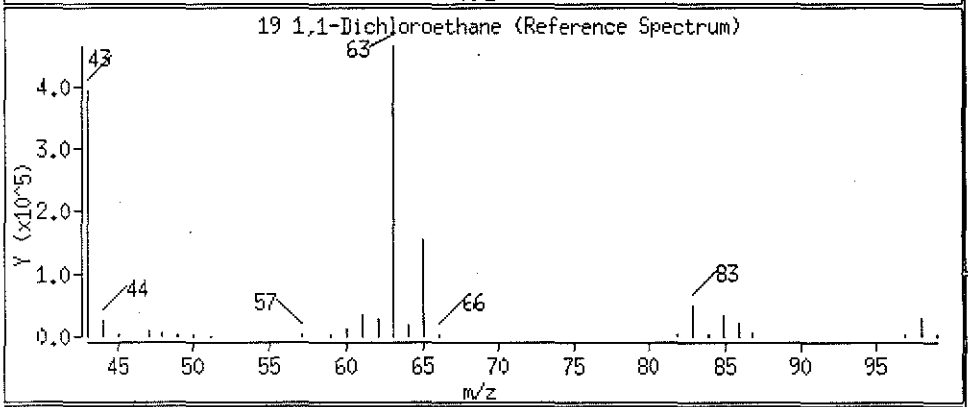
Column phase:

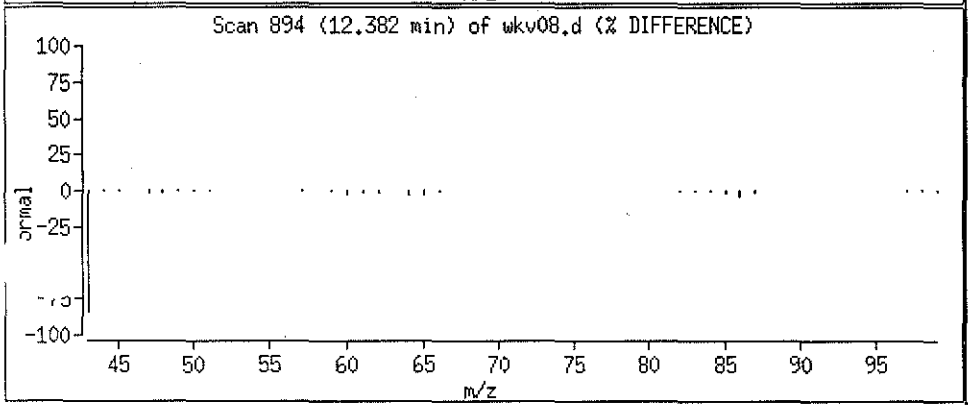
Column diameter: 2.00

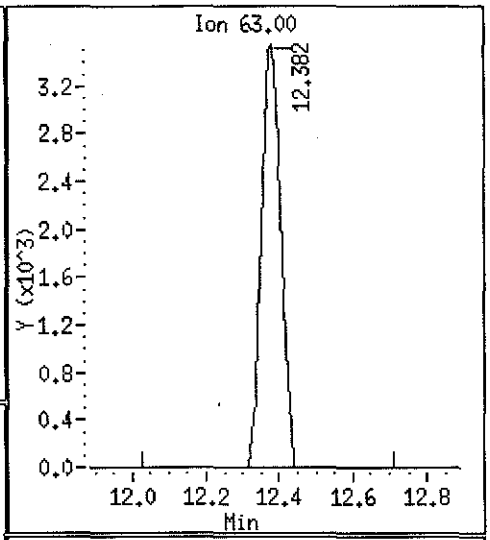
19 1,1-Dichloroethane

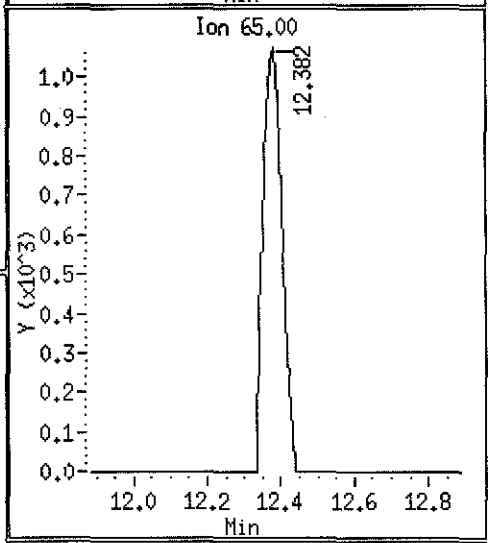


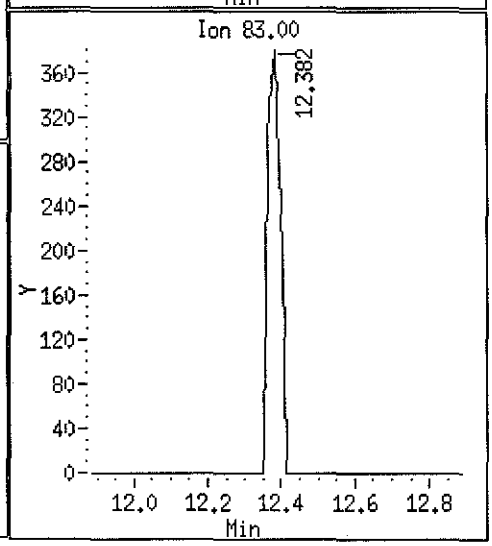












Data File: /chem/gcl2.i/950419a.b/wkv08.d

Date : 20-APR-1995 03:20

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-003 BXC419

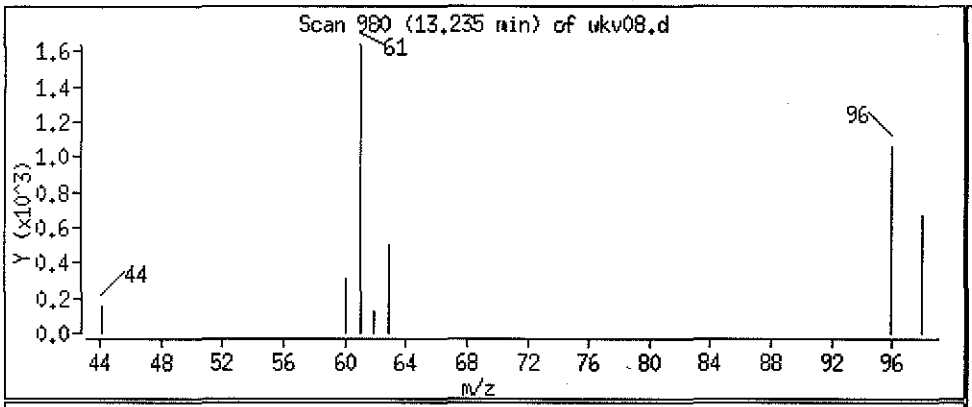
Purge Volume: 5.0

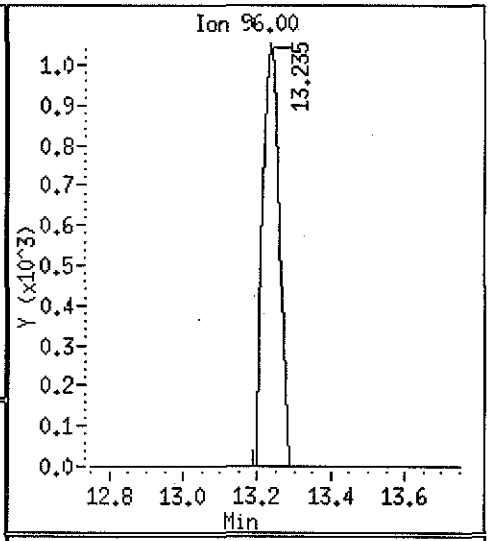
Operator: MANAGER MS

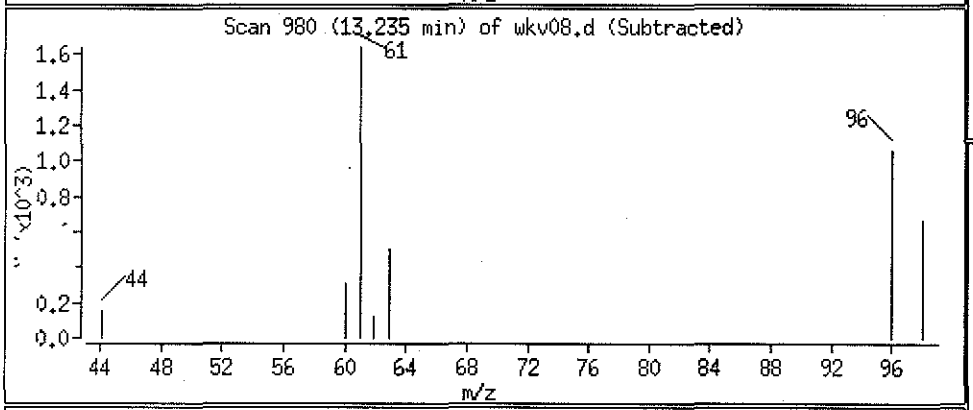
Column phase:

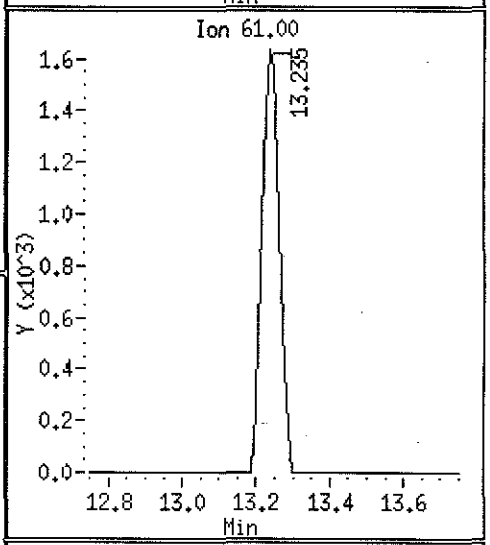
Column diameter: 2.00

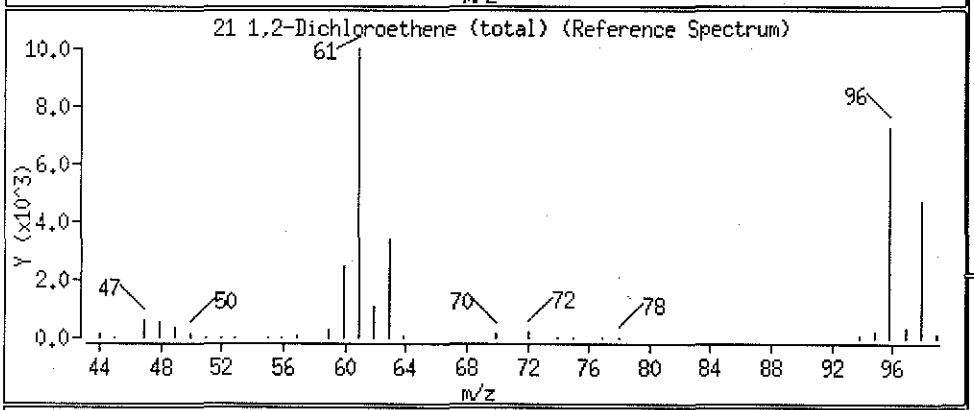
21 1,2-Dichloroethene (total)

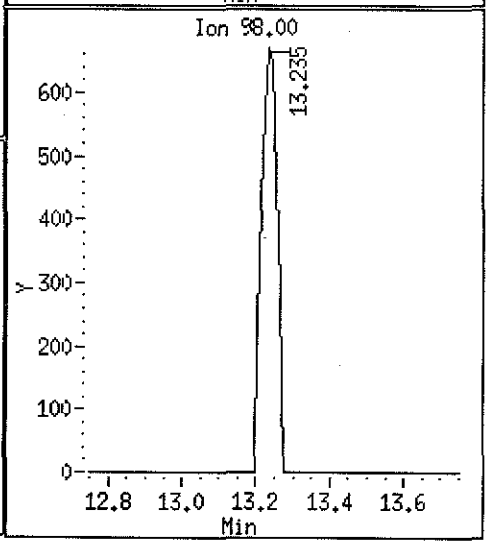


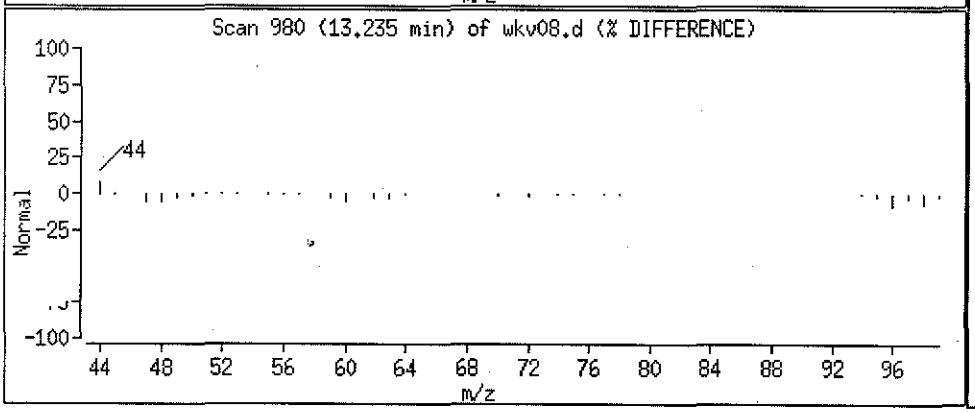












Data File: /chem/gcl2.i/950419a.b/wkv08.d

Date : 20-APR-1995 03:20

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-003 BXC419

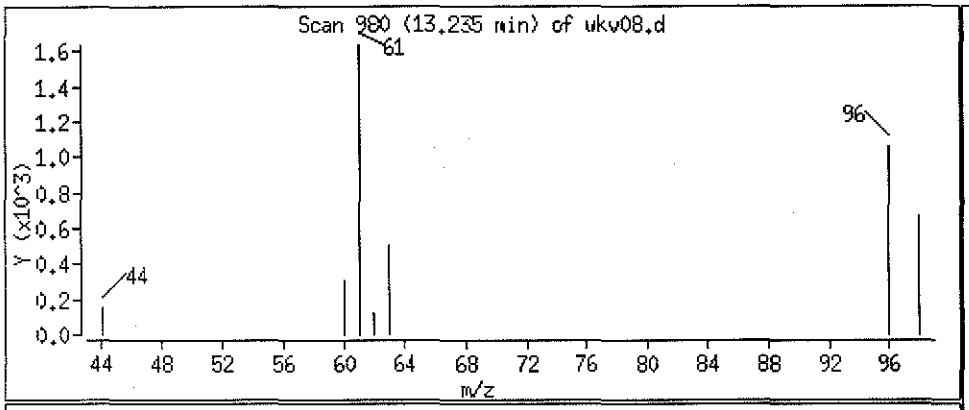
Purge Volume: 5.0

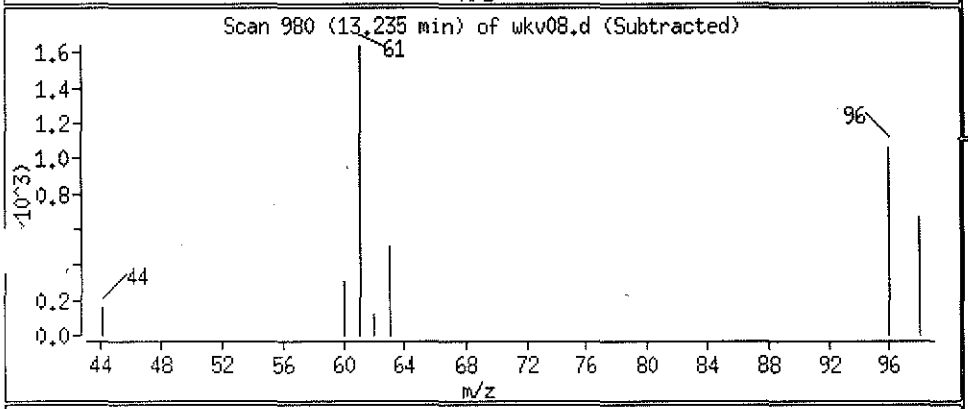
Operator: MANAGER MS

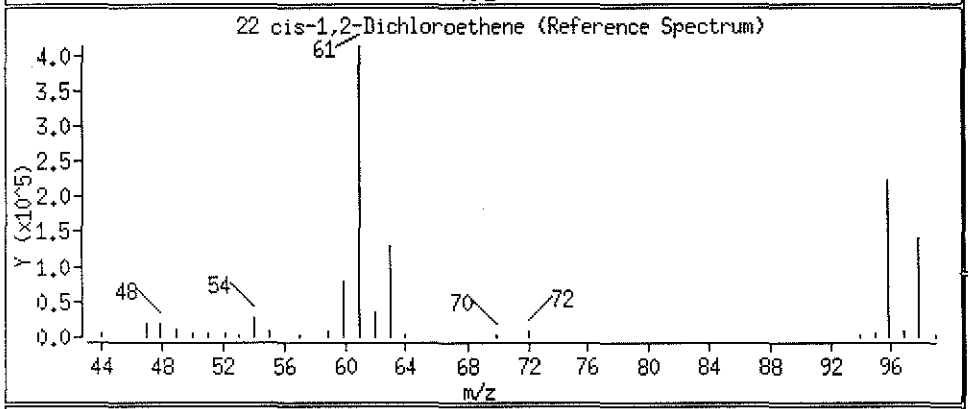
Column phase:

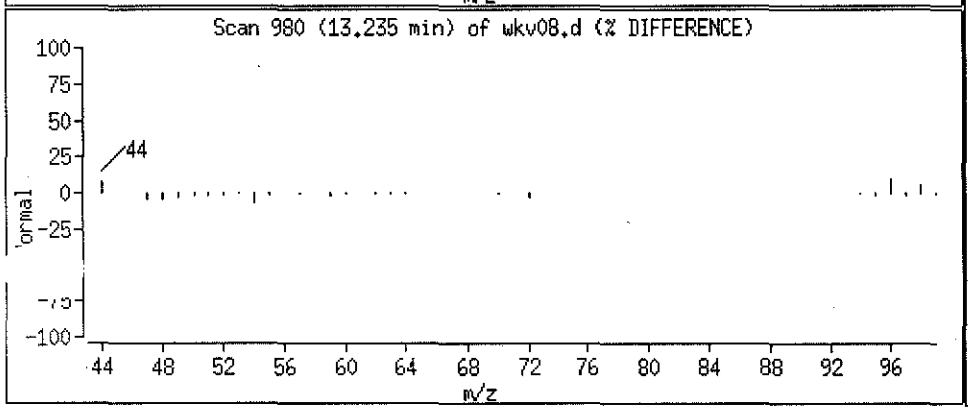
Column diameter: 2.00

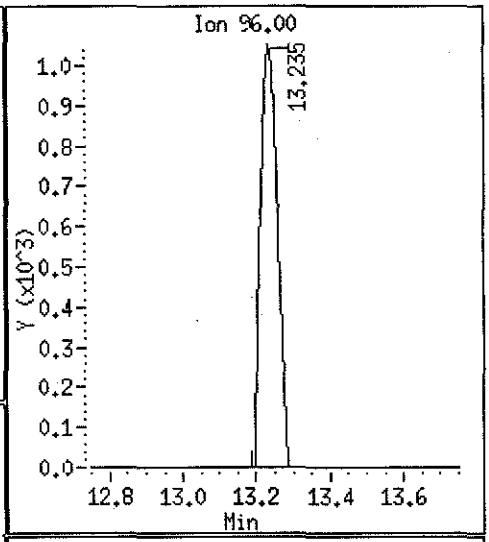
22 cis-1,2-Dichloroethene

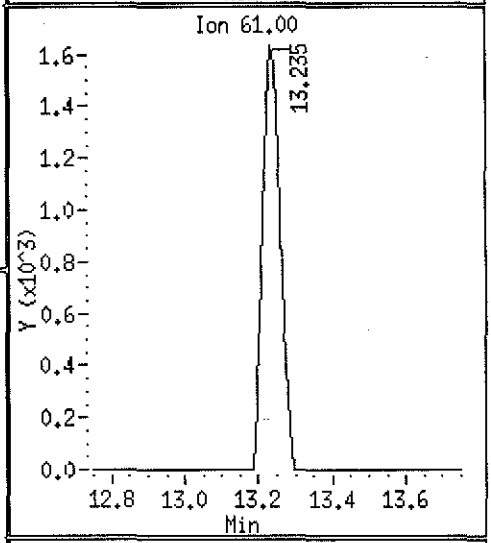


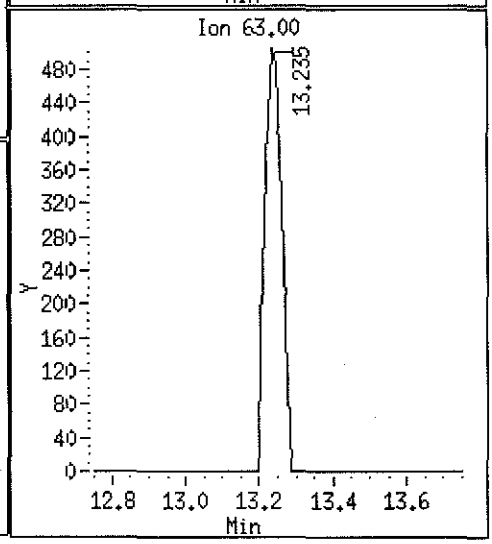












Data File: /chem/gcl2.i/950419a.b/wkv08.d

Date : 20-APR-1995 03:20

lient ID:

Instrument: gcl2.i

ample Info: 9504G211-003 BXC419

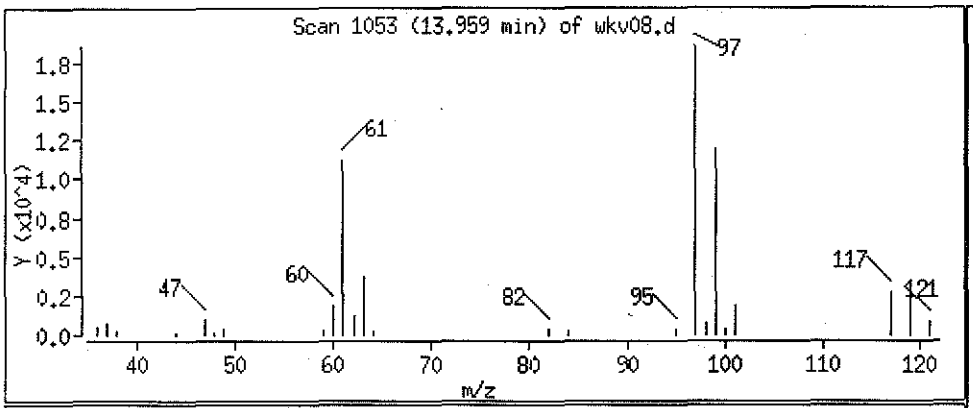
Purge Volume: 5.0

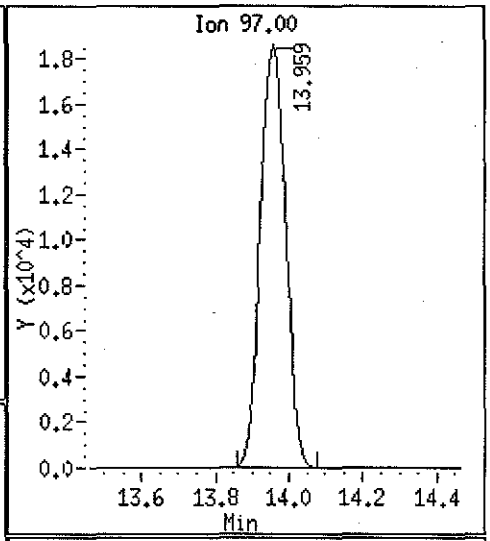
Operator: MANAGER MS

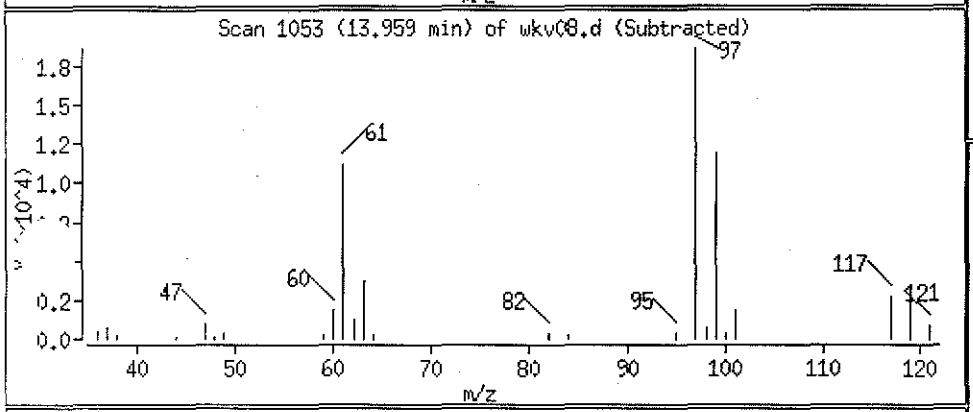
Column phase:

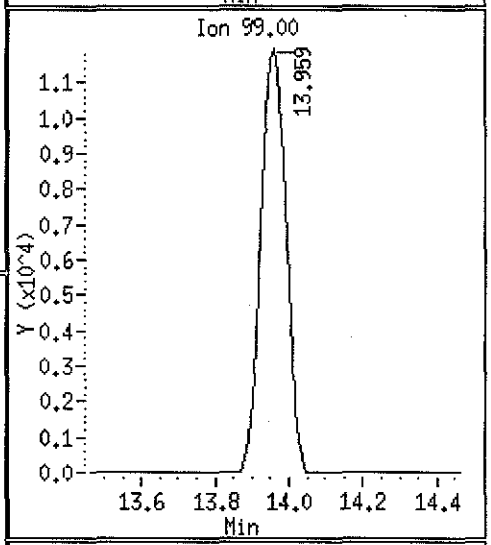
Column diameter: 2.00

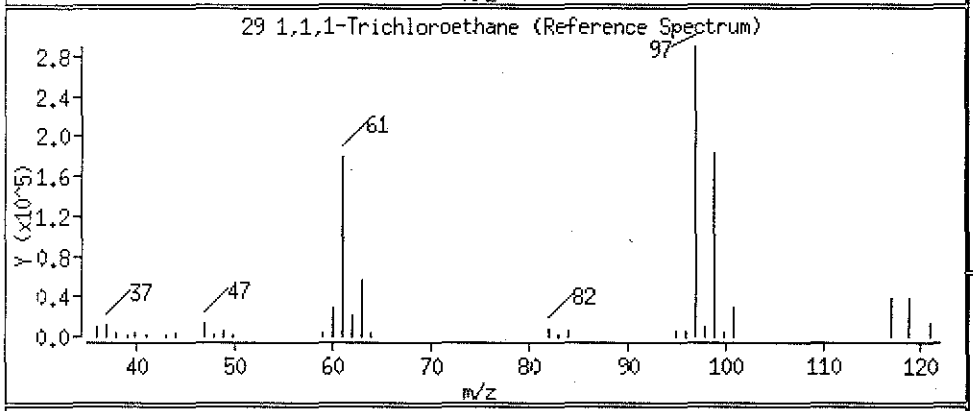
29 1,1,1-Trichloroethane

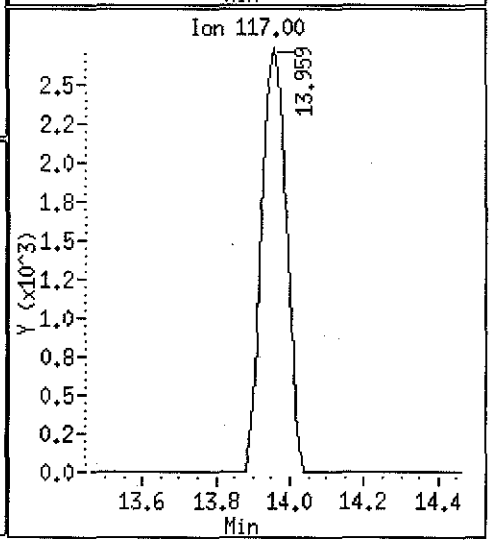


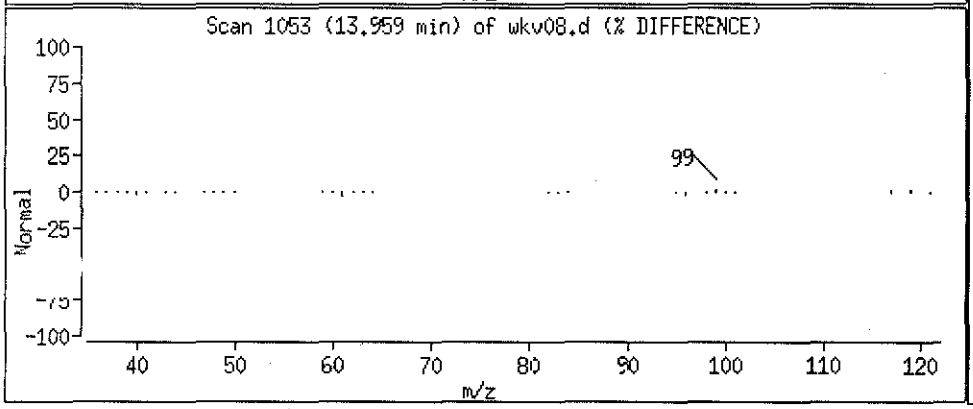












Data File: /chem/gcl2.i/950419a.b/wkv08.d

Date : 20-APR-1995 03:20

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-003 BXC419

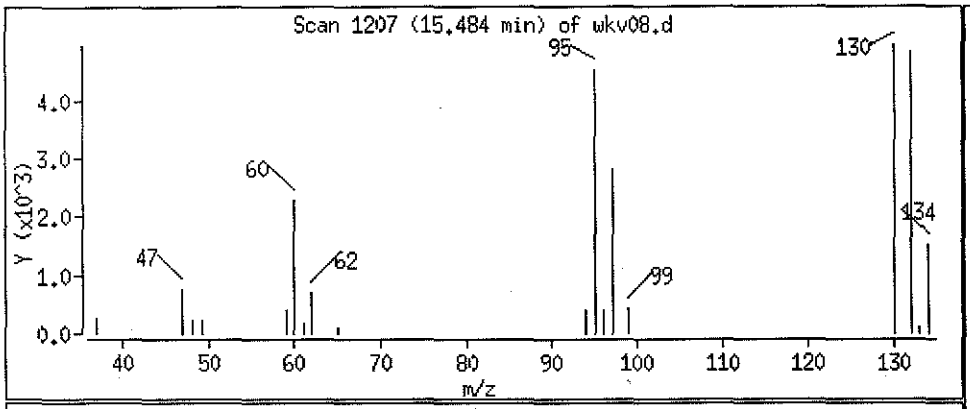
Purge Volume: 5.0

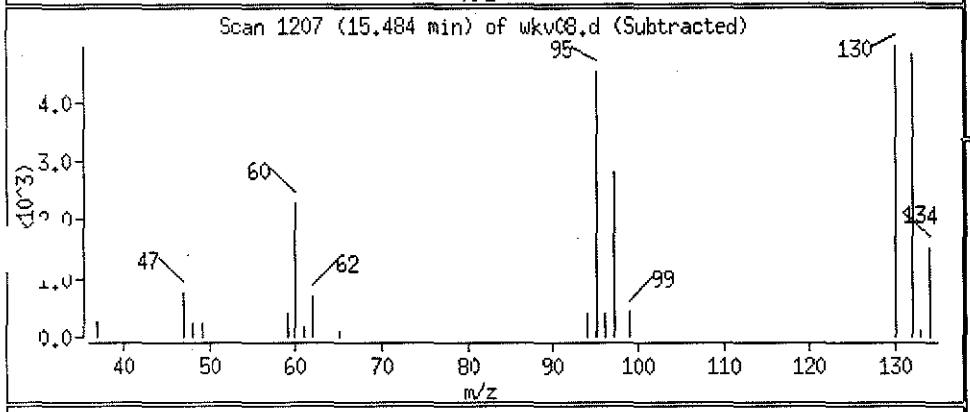
Operator: MANAGER MS

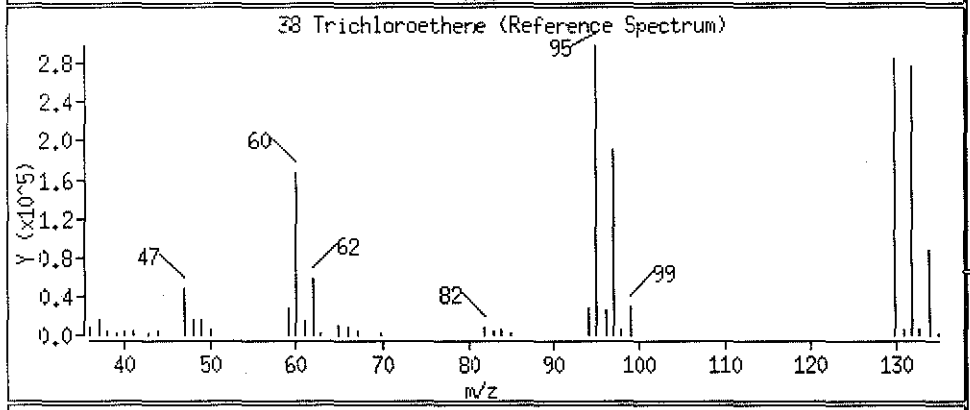
Column phase:

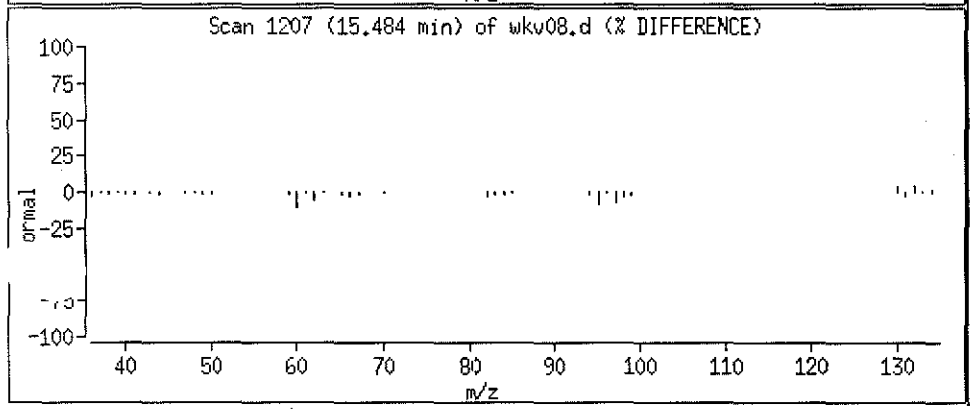
Column diameter: 2.00

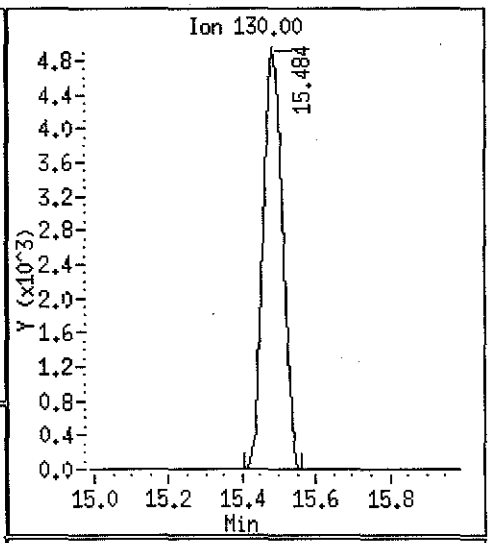
38 Trichloroethene

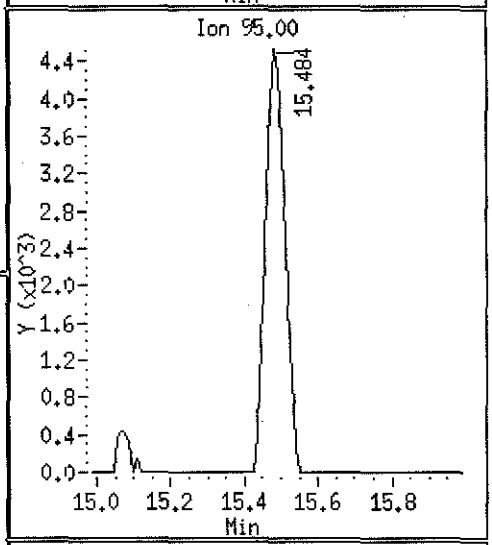


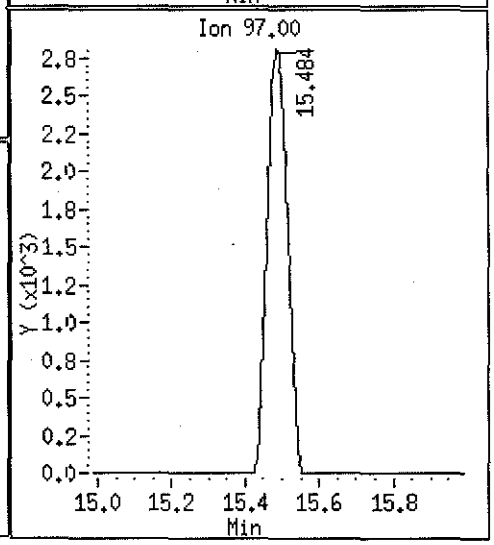












Data File: /chem/gcl2.i/950419a.b/wkv08.d

Date : 20-APR-1995 03:20

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-003 BXC419

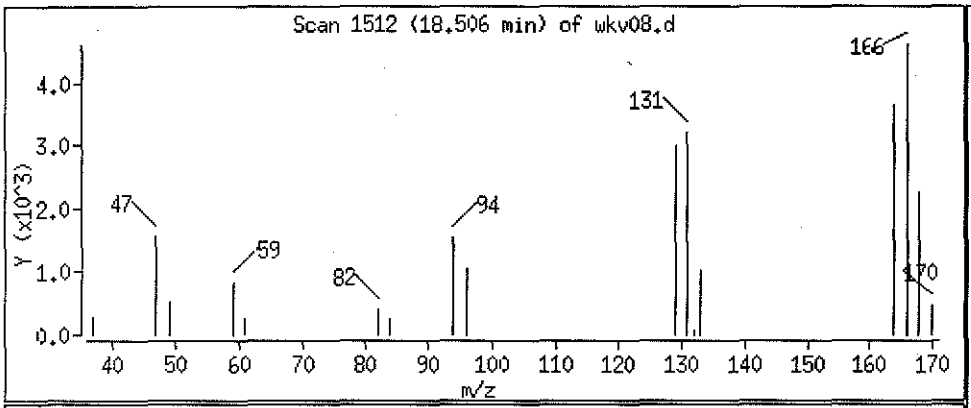
Purge Volume: 5.0

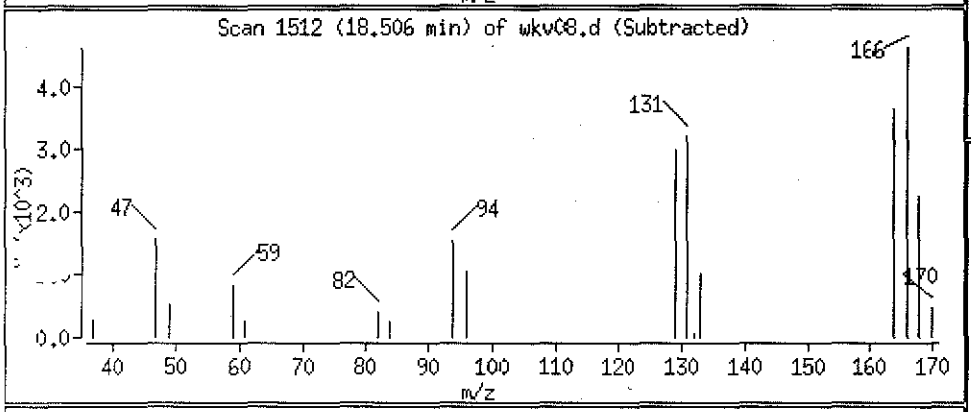
Operator: MANAGER MS

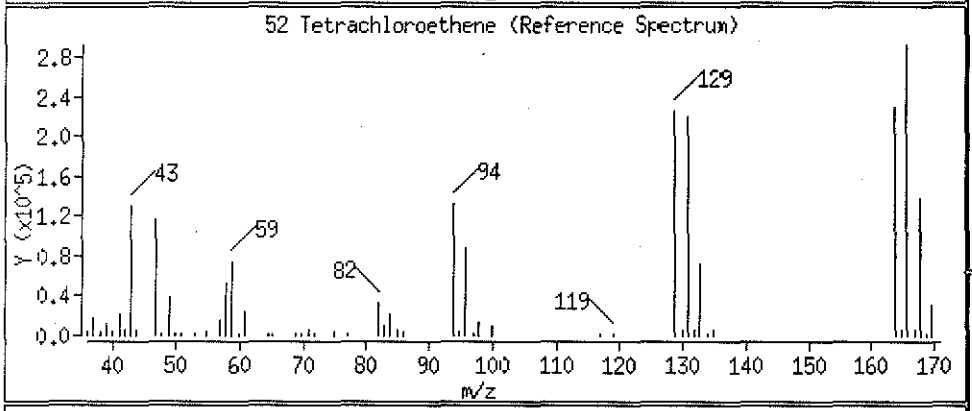
Column phase:

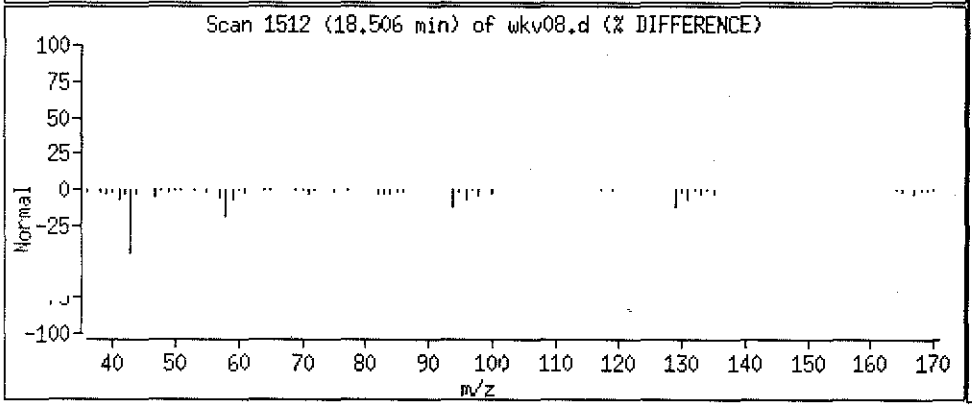
Column diameter: 2.00

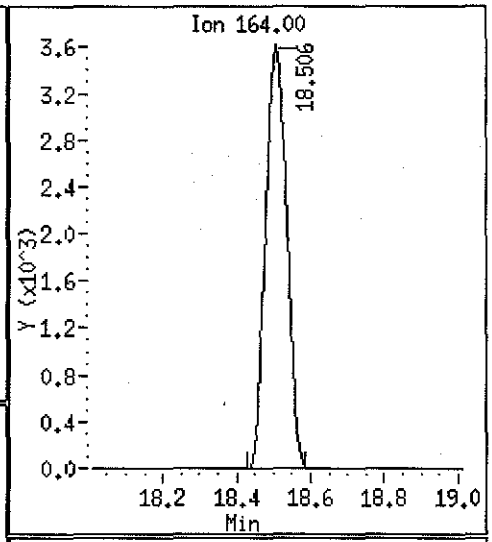
52 Tetrachloroethene

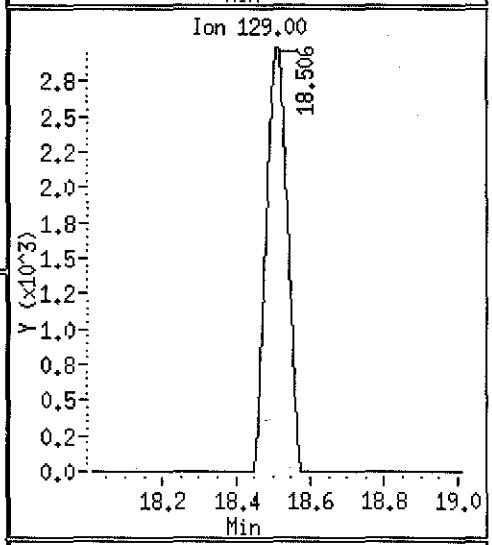


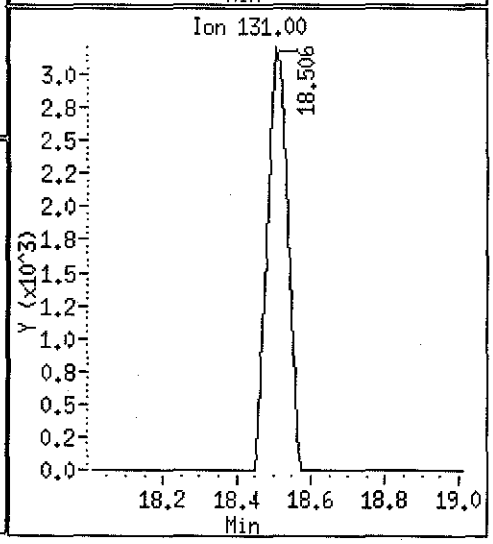












1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG07-GWS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-005

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BWKV09

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. _____

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	8	
540-59-0	1,2-Dichloroethene (total)	11	
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	180	
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	26	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene		E
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG07-GWS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-005

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BWKV09

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. ____

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	20	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	50	U
107-05-1	3-Chloropropene	20	U
126-98-7	Methacrylonitrile	20	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2000	U
106-93-4	1,2-Dibromoethane	20	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	20	U
97-63-2	Ethylmethacrylate	20	U
76-01-7	Pentachloroethane	20	U

FORM 1 V-2 12/88 Rev.

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TC2-BG07-GWS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-005

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BWKV09

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. _____

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

Number TICs found: 0

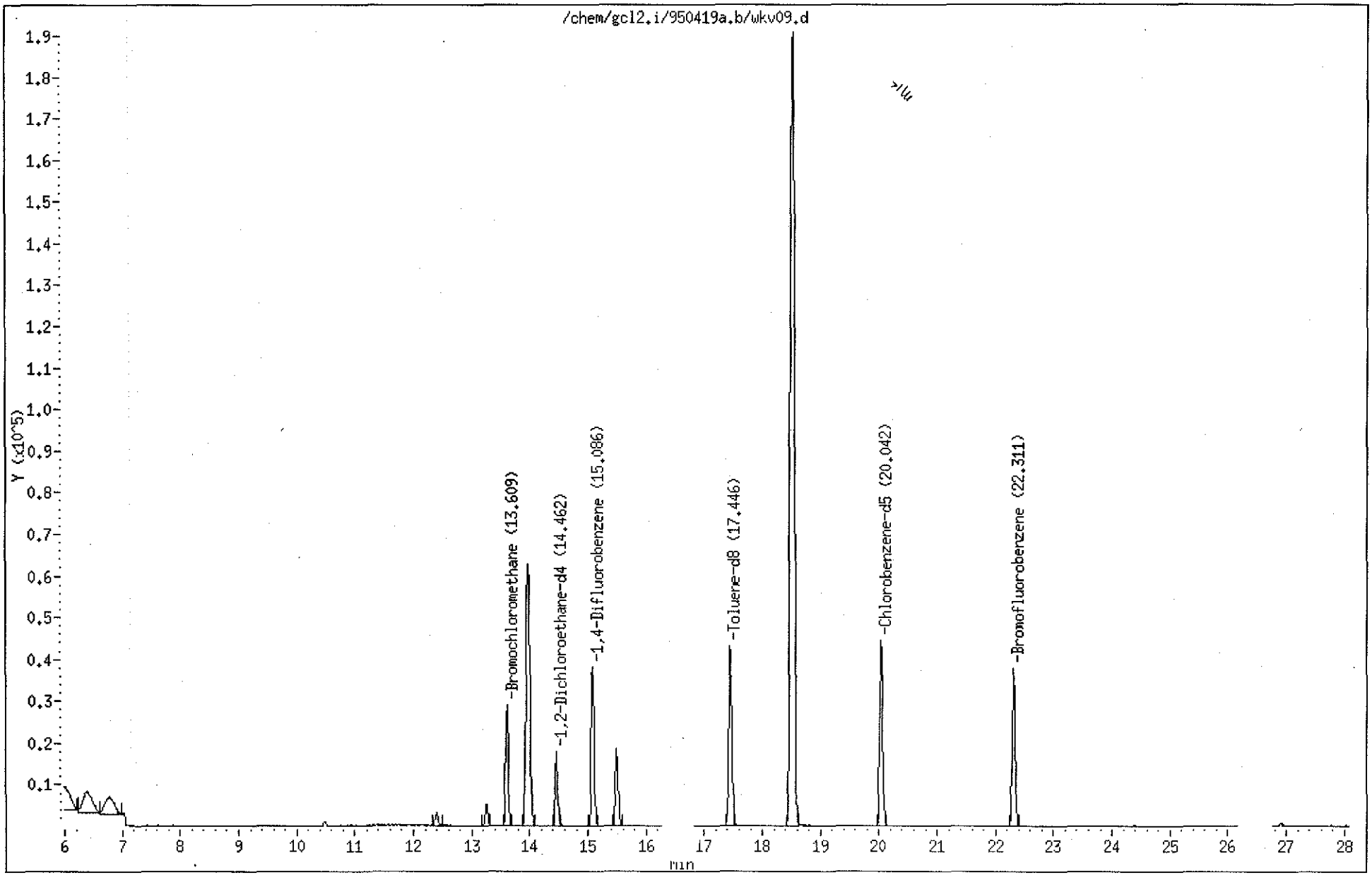
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

Data File: /chem/gcl2.i/950419a.b/wkv09.d
Date : 20-APR-1995 03:56
Client ID:
Sample Info: 9504G211-005 BXC419
Purge Volume: 5.0
Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950419a.b/wkv09.d
Lab Smp Id:
Inj Date : 20-APR-1995 03:56
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 9504G211-005 BXC419
Misc Info : GCL#2,DIL=1,5ML SMP+5ULIS,SS
Comment :
Method : /chem/gcl2.i/950419a.b/8240w2.m
Meth Date : 20-Apr-1995 11:49 ogormanj Quant Type: ISTD
Cal Date : 19-APR-1995 21:30 Cal File: yc419.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * 1

Name	Value	Description
Uf	1.000	ng unit correction factor

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	19 1,1-Dichloroethane	63.00	12.399	12.421	(0.911)	7708	8.15	8.15 (M)
	21 1,2-Dichloroethene (total) ipk	96.00	13.252	13.273	(0.974)	4256	11.10	11.10
	22 cis-1,2-Dichloroethene	96.00	13.252	13.273	(0.974)	4256	9.26	9.26
*	27 Bromochloromethane	127.80	13.609	13.630	(1.000)	11422	50.00	
	29 1,1,1-Trichloroethane	97.00	13.976	13.997	(0.926)	88872	143.2	143.2
	30 Carbon Tetrachloride	116.80	13.976	14.245	(0.926)	12989	24.34	24.34
$	33 1,2-Dichloroethane-d4	65.00	14.462	14.483	(1.063)	18944	39.21	39.21
*	36 1,4-Difluorobenzene	114.00	15.086	15.108	(1.000)	56230	50.00	
	38 Trichloroethene	130.00	15.493	15.524	(1.027)	13489	29.55	29.55
$	46 Toluene-d8	98.00	17.446	17.468	(0.870)	54345	47.44	47.44
	52 Tetrachloroethene	164.00	18.536	18.529	(0.925)	132416	329.1	329.1
*	56 Chlorobenzene-d5	117.00	20.042	20.055	(1.000)	50642	50.00	
$	64 Bromofluorobenzene	95.00	22.311	22.325	(1.113)	31311	47.44	47.44

QC Flag Legend

M - Compound response manually integrated.

Gulf Coast

Unknown Compounds Quantitation Report

Data file : /chem/gcl2.i/950419a.b/wkv09.d
Lab Smp Id:
Inj Date : 20-APR-1995 03:56
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 9504G211-005 BXC419
Misc Info : GCL#2,DIL=1,5ML SMP+5ULIS,SS
Comment :
Method : /chem/gcl2.i/950419a.b/8240w2.m
Meth Date : 19-Apr-1995 22:11 petruszj
Cal Date : 19-APR-1995 21:30 Cal File: yc419.d
Als bottle: 1
Dil Factor: 1.000 Target Version: 3.12
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

ISTD	RT	AREA	AMOUNT
* 27 Bromochloromethane	13.609	92316	50.000

	CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
12.399	11162	6.04	6.04	4	NBS75K.l	2186	27

Ethane, 1-chloro-2-nitro- CAS #: 625-47-8

MC

Data File: /chem/gcl2.i/950419a.b/wkv09.d

Date : 20-APR-1995 03:56

ient ID:

Instrument: gcl2.i

Sample Info: 9504G211-005 BXC419

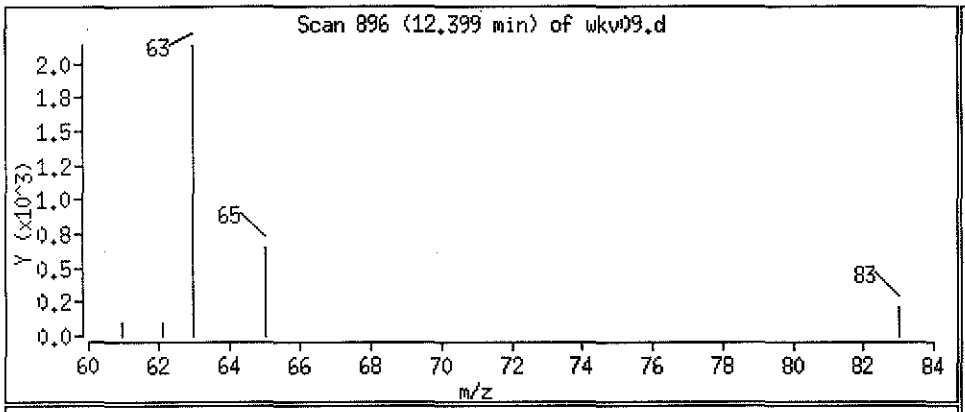
Purge Volume: 5.0

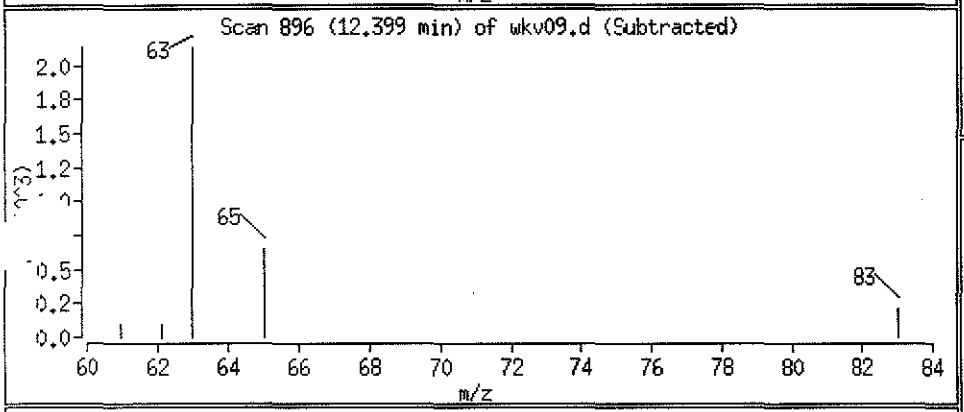
Operator: MANAGER MS

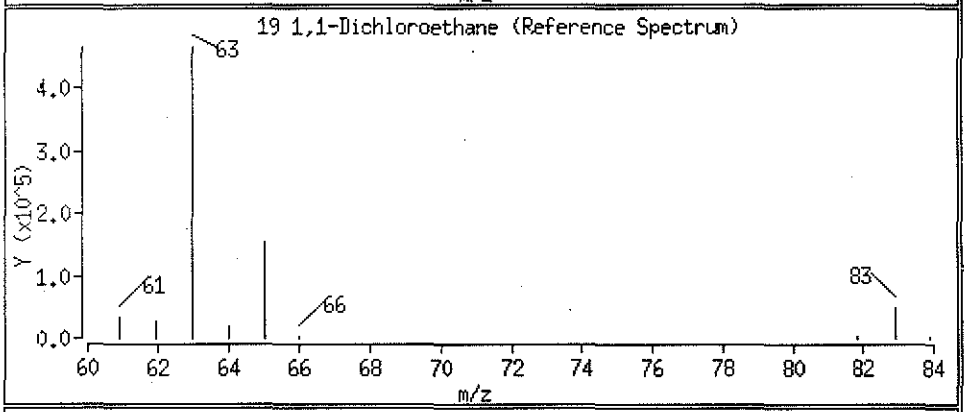
Column phase:

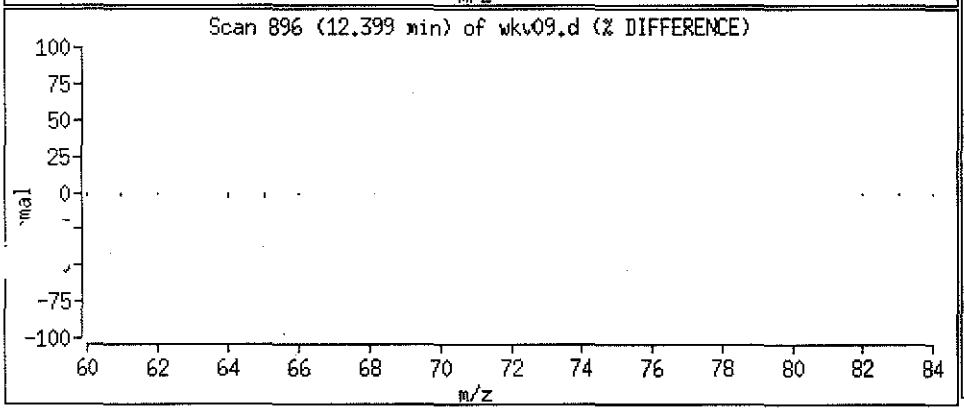
Column diameter: 2.00

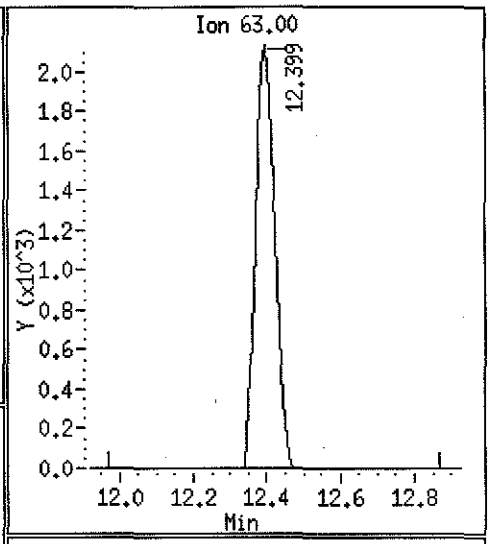
19 1,1-Dichloroethane

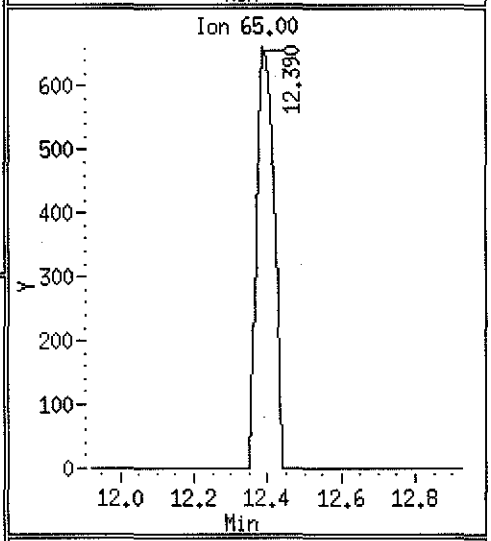


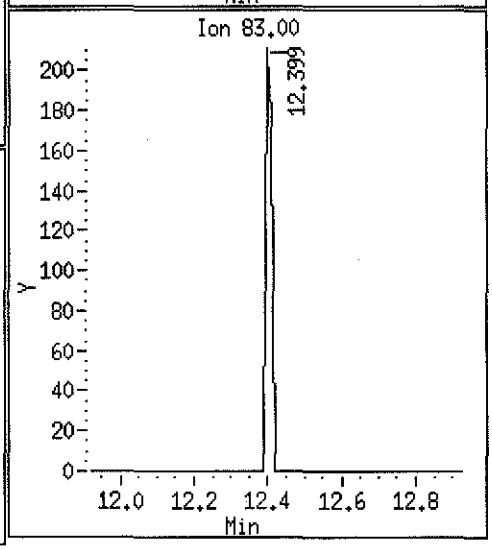












Data File: /chem/gcl2.i/950419a.b/wkv09.d

Date : 20-APR-1995 03:56

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-005 BXC419

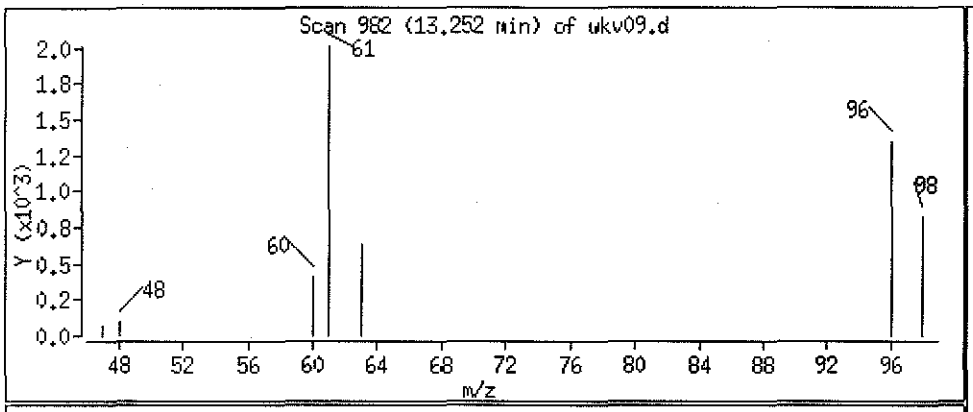
Purge Volume: 5.0

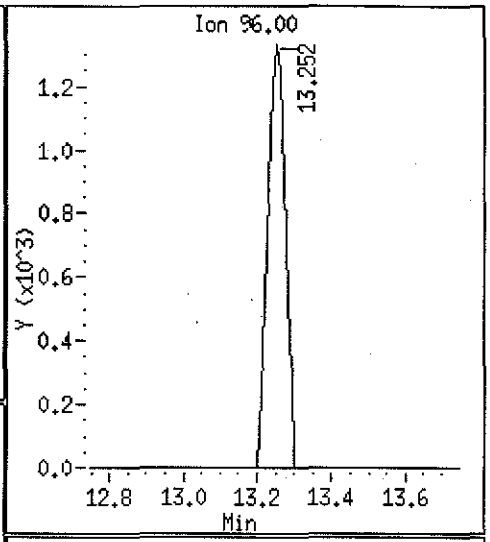
Operator: MANAGER MS

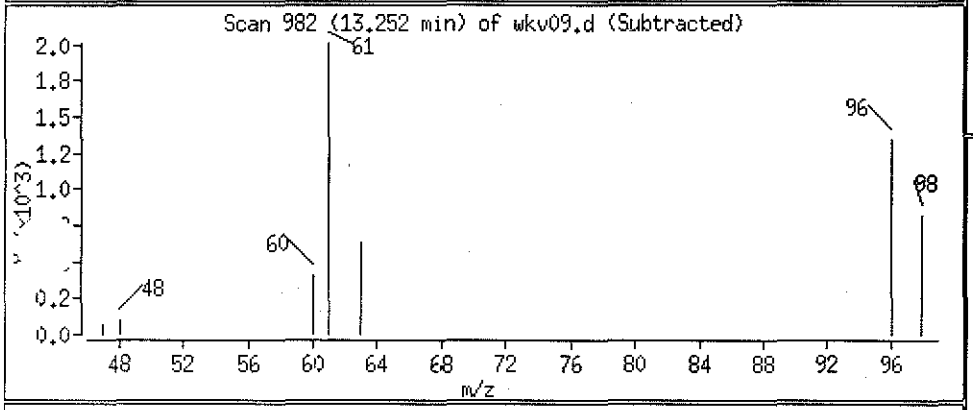
Column phase:

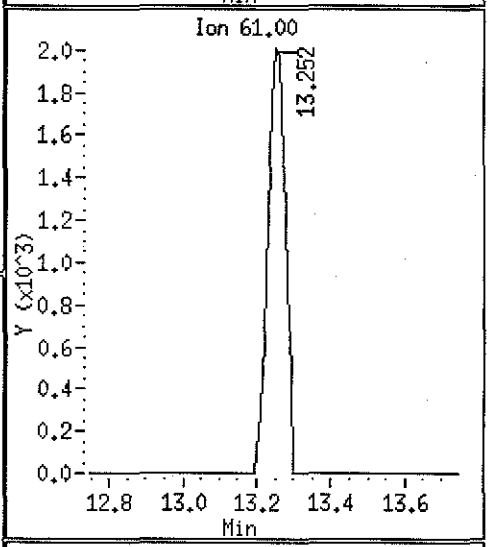
Column diameter: 2.00

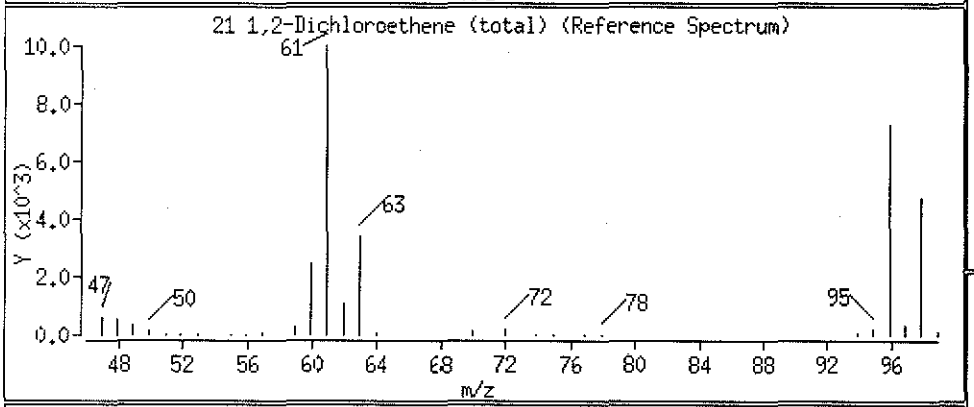
21 1,2-Dichloroethene (total)

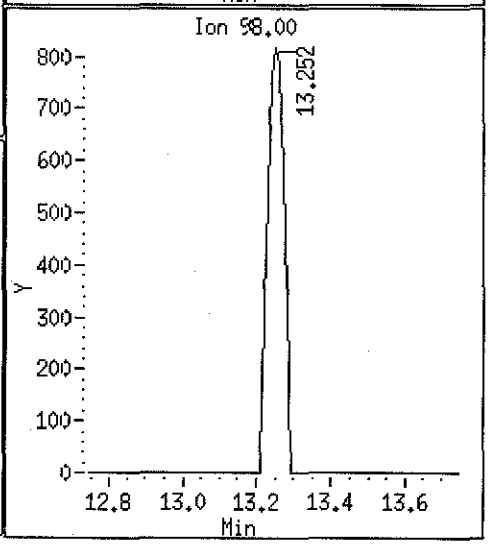


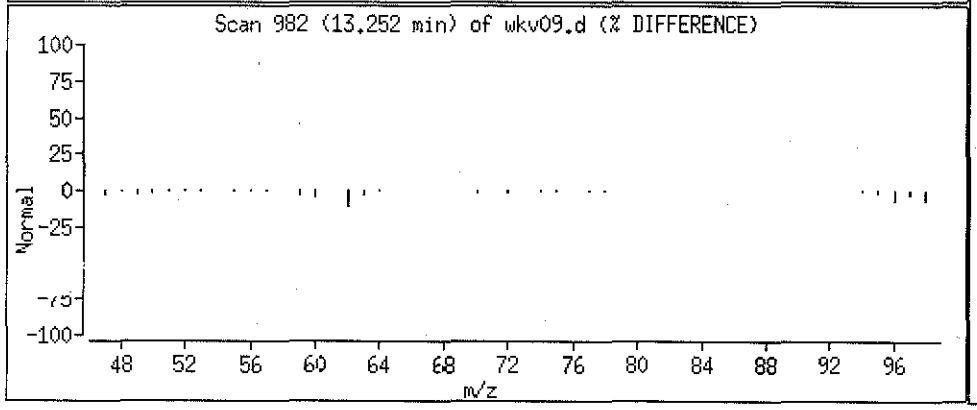












Data File: /chem/gcl2.i/950419a.b/wkv09.d

Date : 20-APR-1995 03:56

lient ID:

Instrument: gcl2.i

Sample Info: 9504G211-005 BXC419

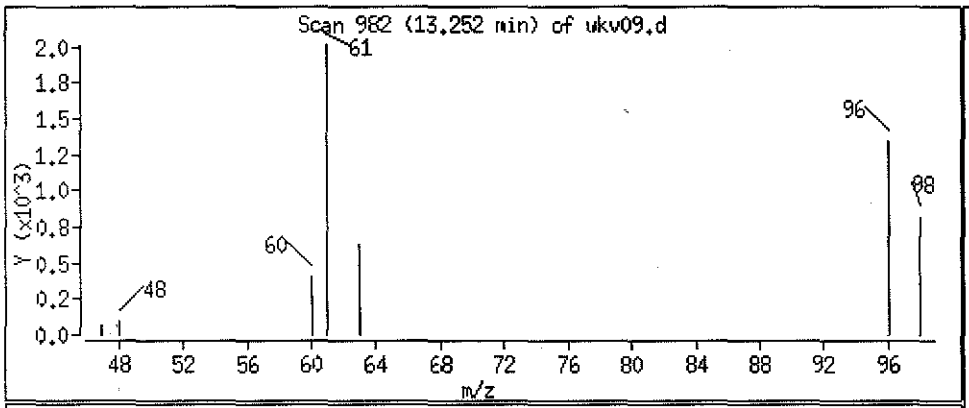
Purge Volume: 5.0

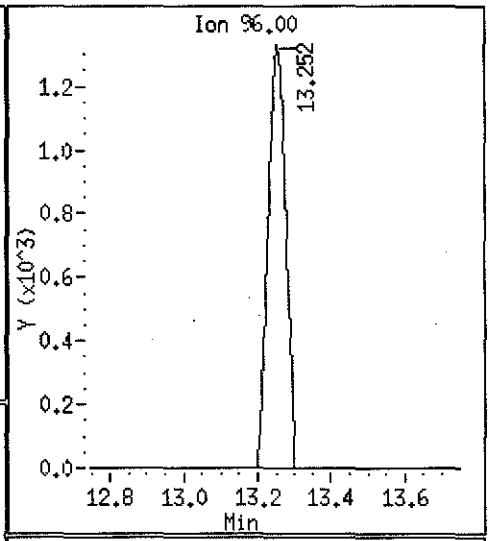
Operator: MANAGER MS

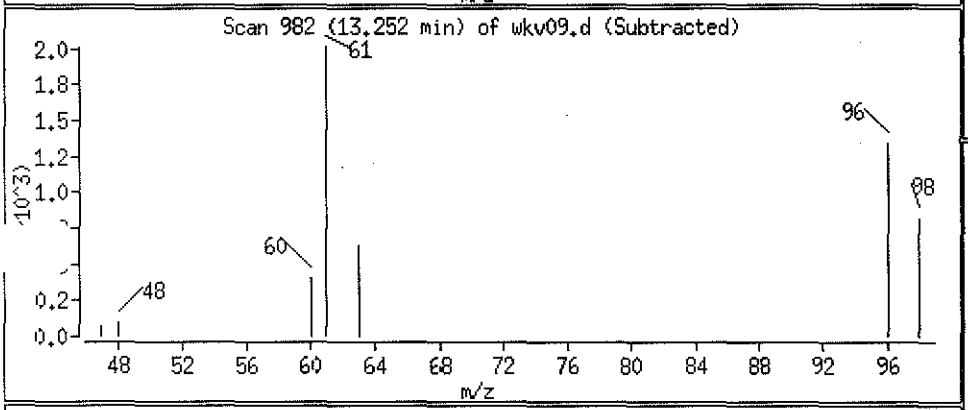
Column phase:

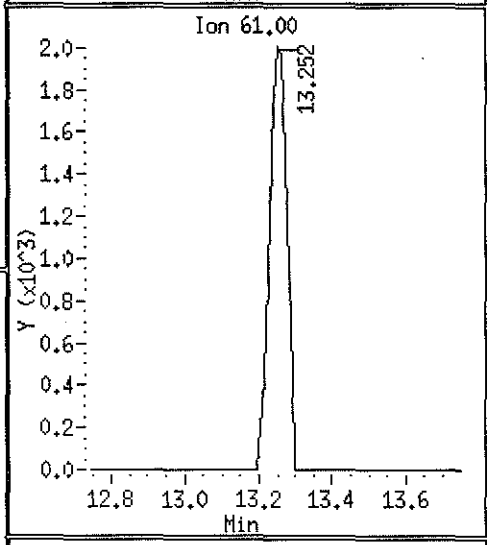
Column diameter: 2.00

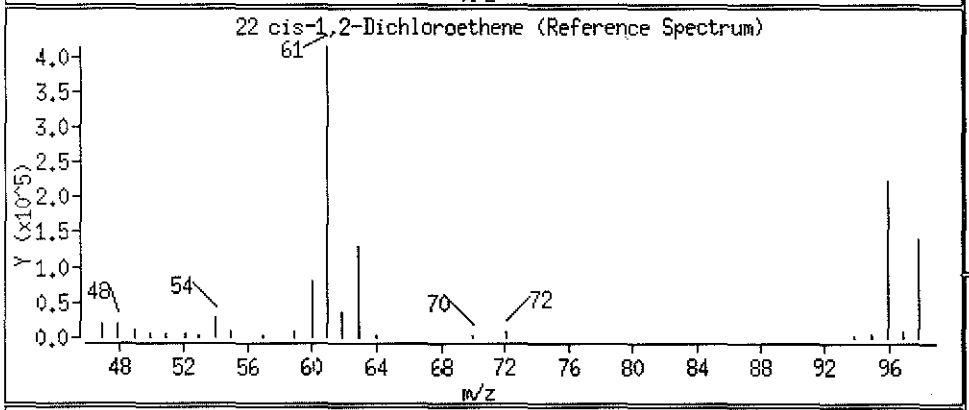
22 cis-1,2-Dichlorcethene

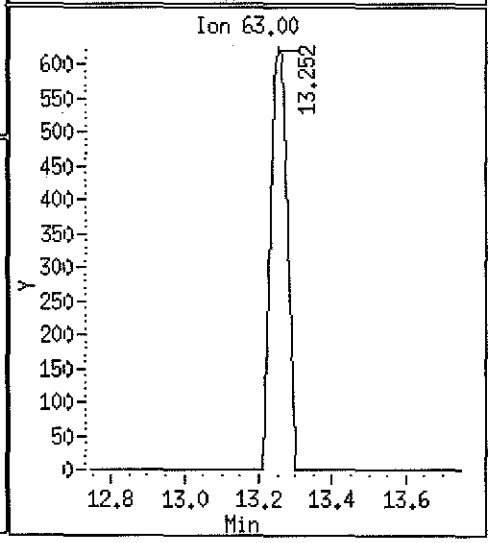


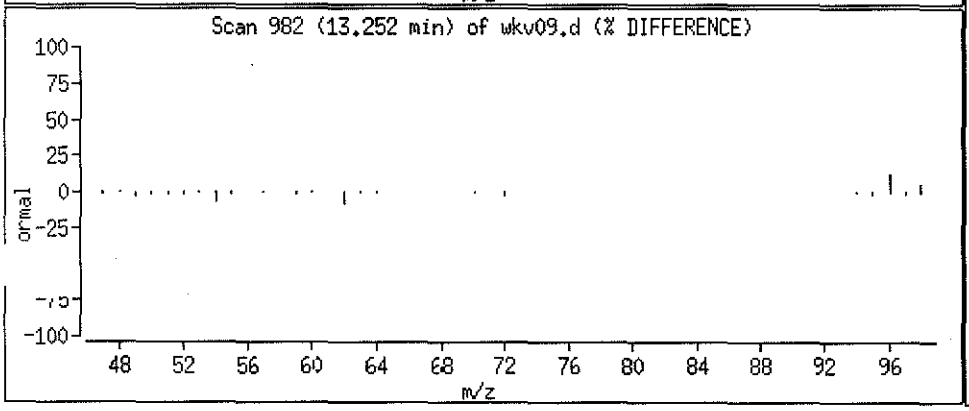












Data File: /chem/gcl2.i/950419a.b/wkv09.d

Date : 20-APR-1995 03:56

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-005 BXC419

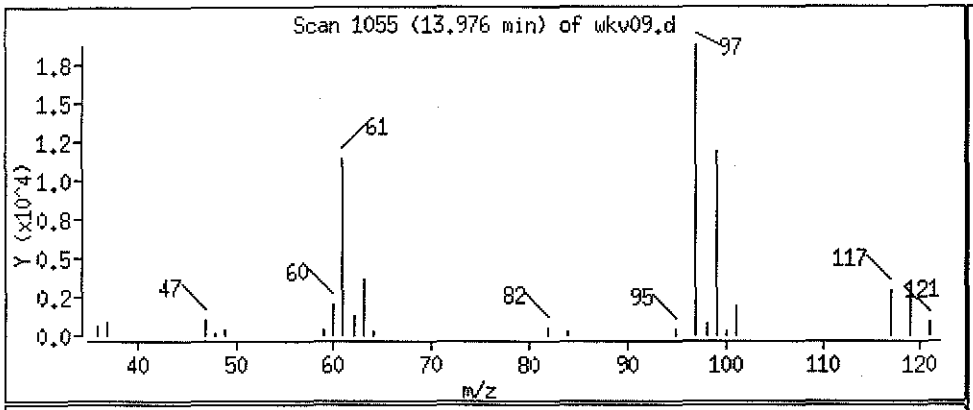
Purge Volume: 5.0

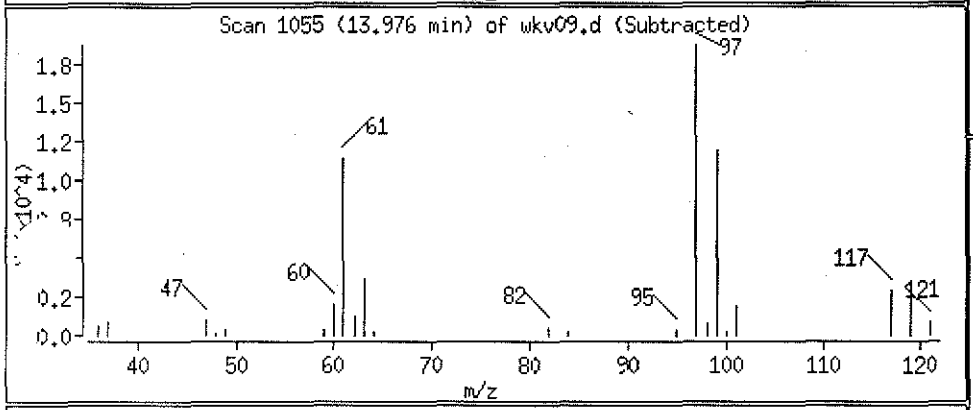
Operator: MANAGER MS

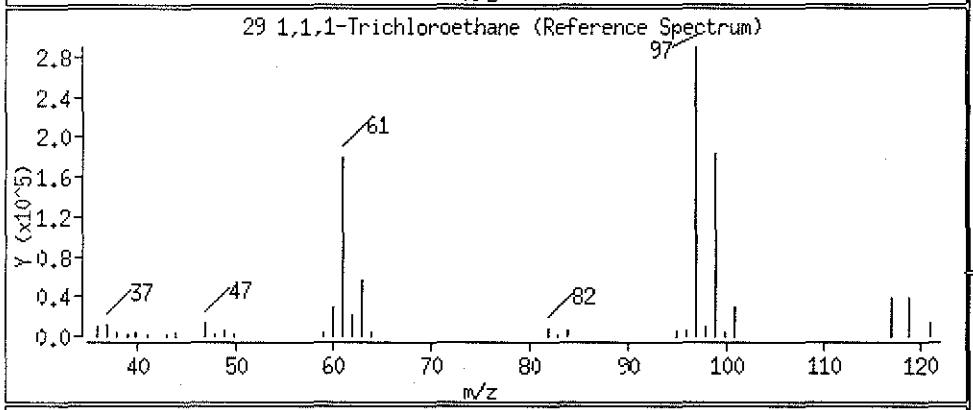
Column phase:

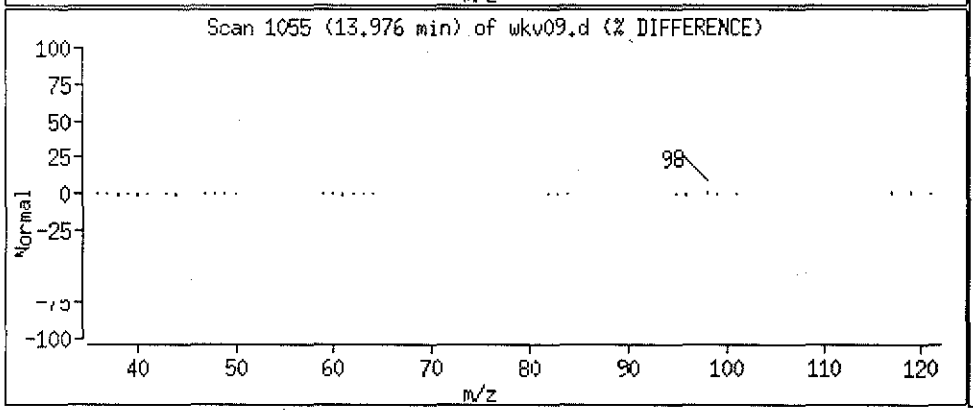
Column diameter: 2.00

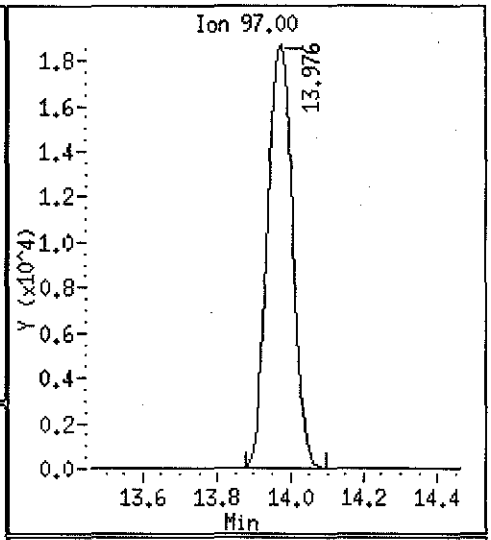
29 1,1,1-Trichloroethane

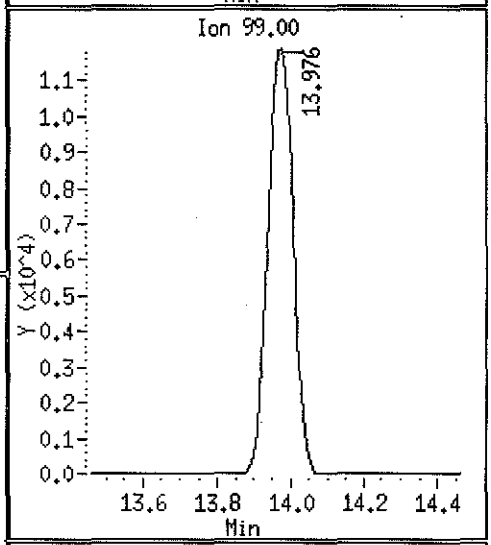


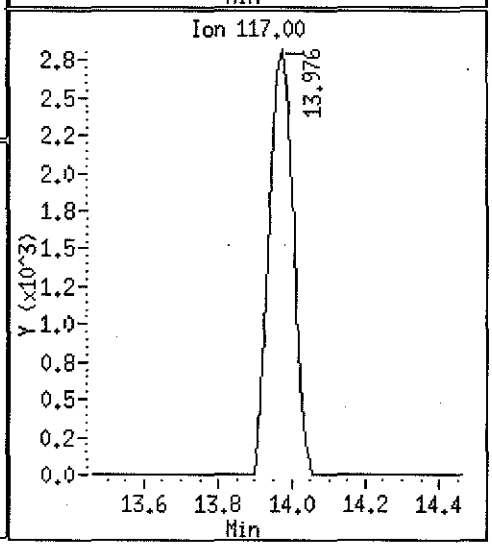












Data File: /chem/gcl2.i/950419a.b/wkv09.d

Date : 20-APR-1995 03:56

'ient ID:

Instrument: gcl2.i

Sample Info: 9504G211-005 BXC419

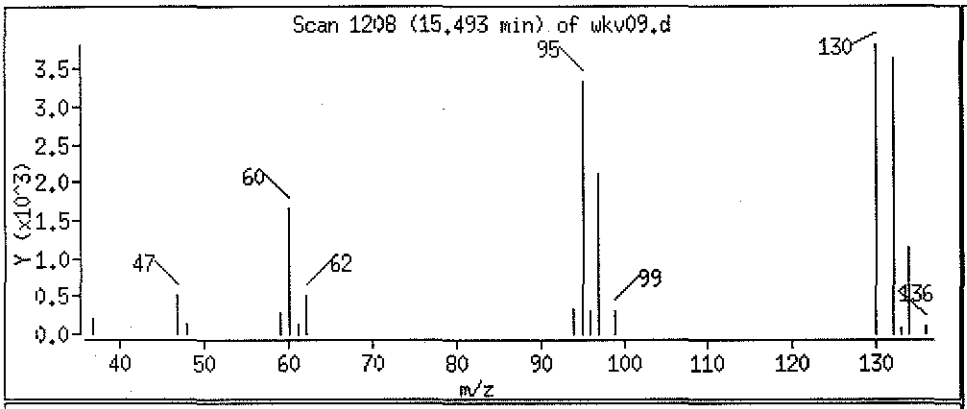
Purge Volume: 5.0

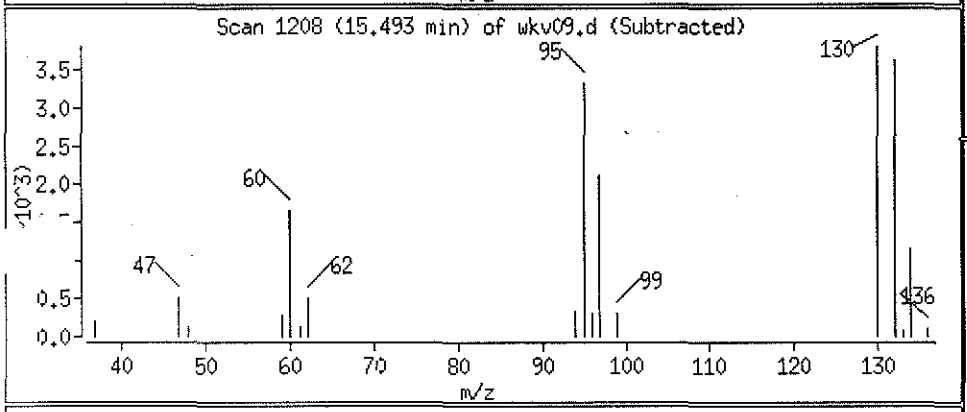
Operator: MANAGER MS

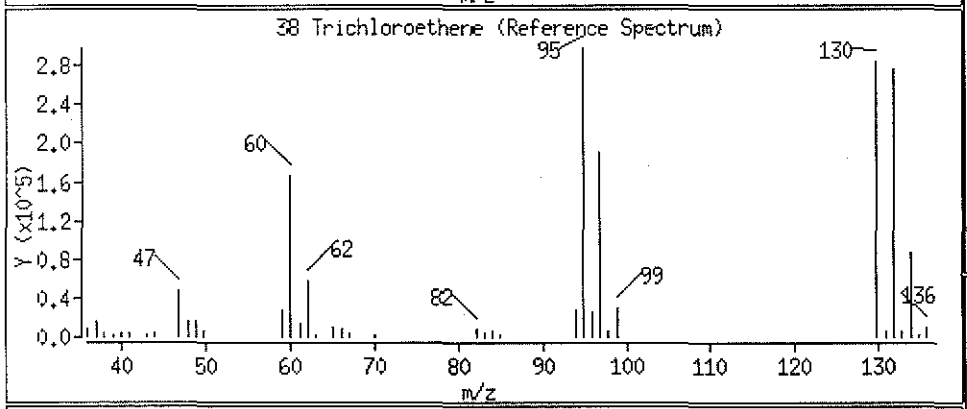
Column phase:

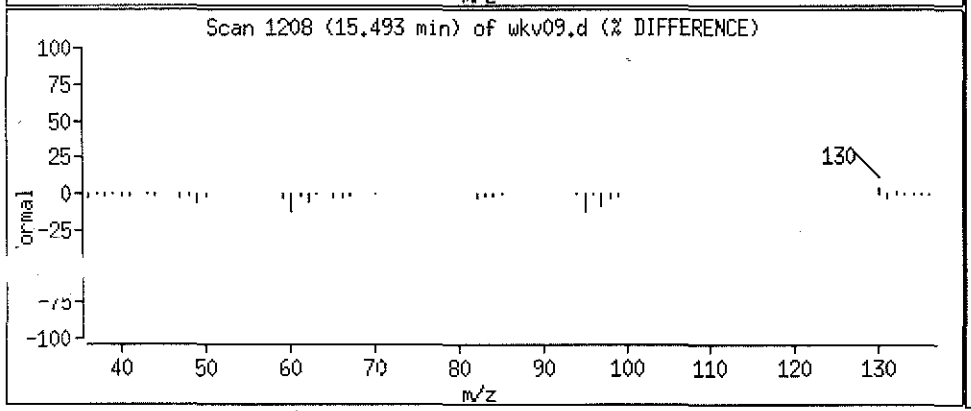
Column diameter: 2.00

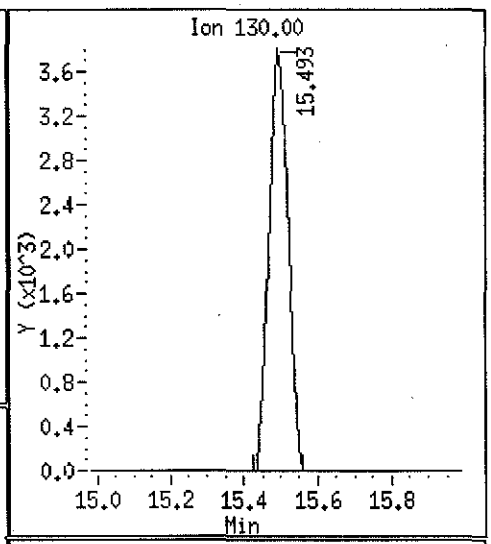
38 Trichloroethene

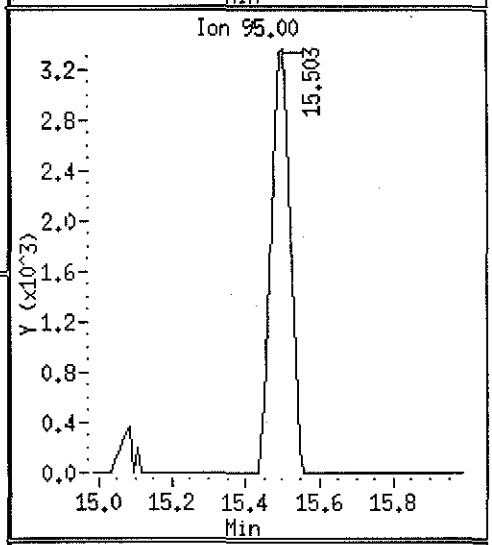


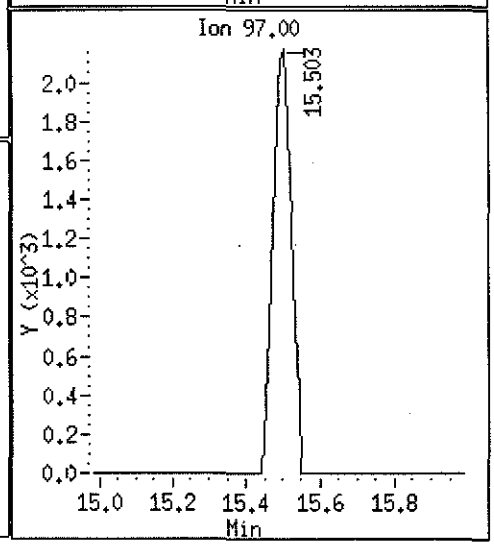












Data File: /chem/gcl2.i/950419a.b/wkv09.d

Date : 20-APR-1995 03:56

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-005 BXC419

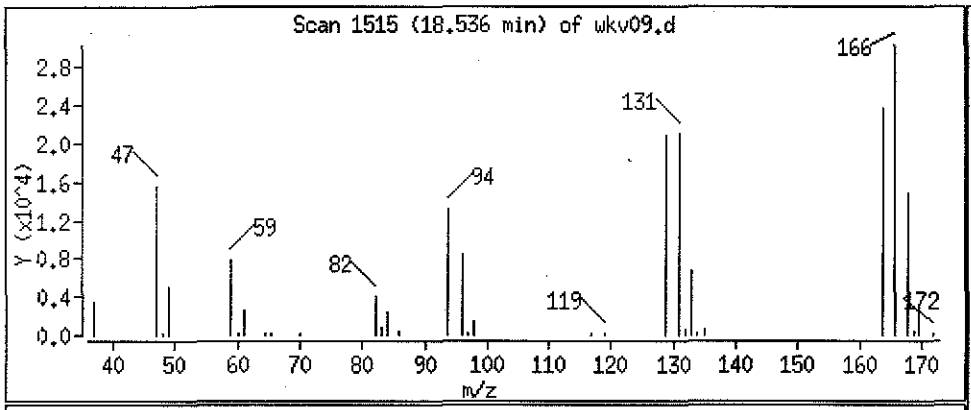
Purge Volume: 5.0

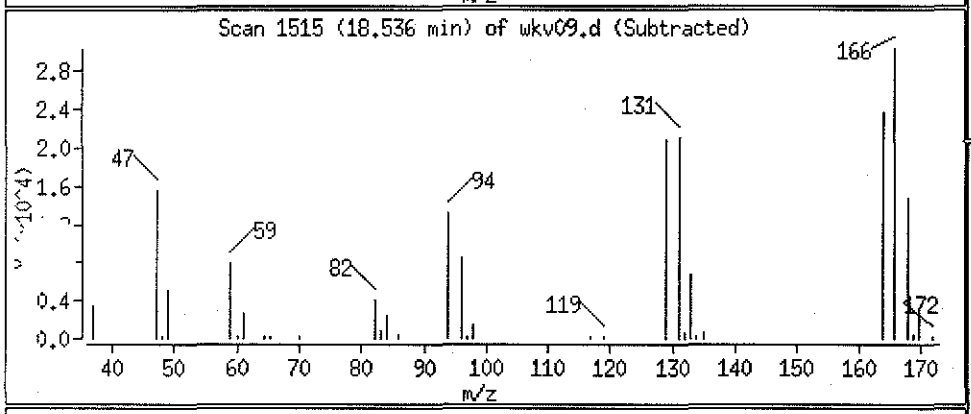
Operator: MANAGER MS

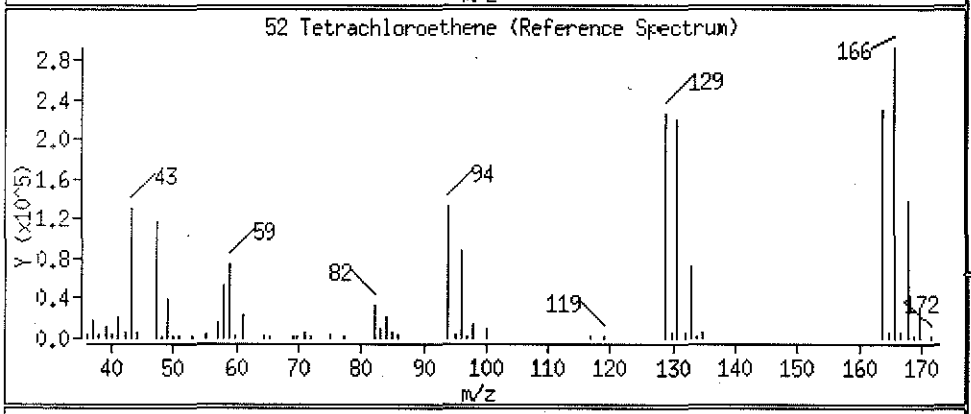
Column phase:

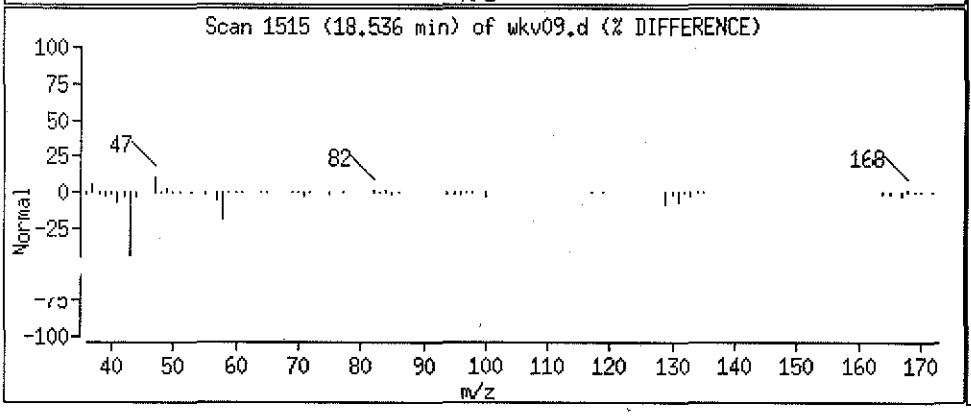
Column diameter: 2.00

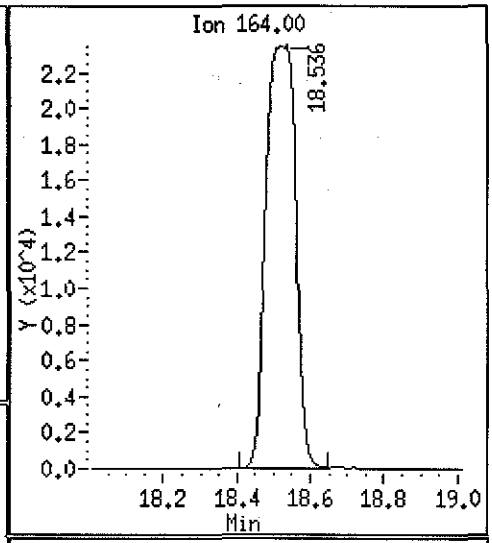
52 Tetrachloroethene

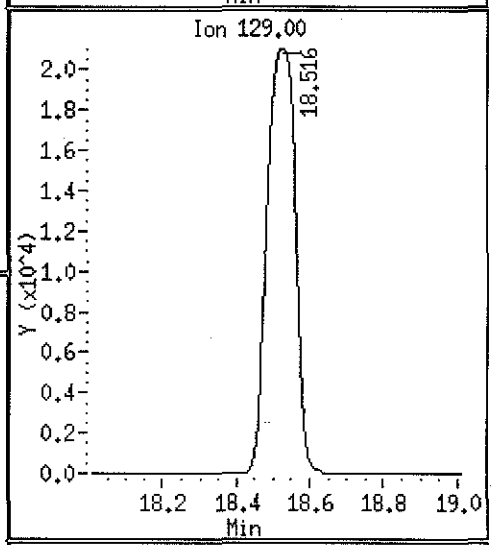


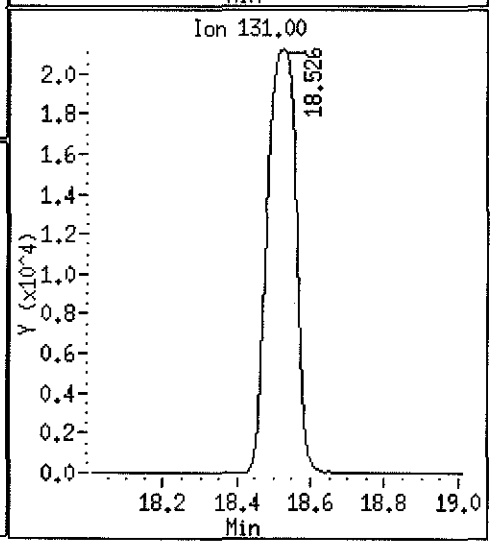












1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG07-GWSDL

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-005 DL

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BWKV19

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. _____

Date Analyzed: 04/21/95

Column: (pack/cap) PACK

Dilution Factor: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	NA	
107-06-2	1,2-Dichloroethane	NA	
78-93-3	2-Butanone	NA	
71-55-6	1,1,1-Trichloroethane	NA	
56-23-5	Carbon Tetrachloride	NA	
108-05-4	Vinyl acetate	NA	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	NA	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
10061-02-6	trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	590	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	NA	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG07-GWSDL

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-005 DL

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BWKV19

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. _____

Date Analyzed: 04/21/95

Column: (pack/cap) PACK

Dilution Factor: 5.0

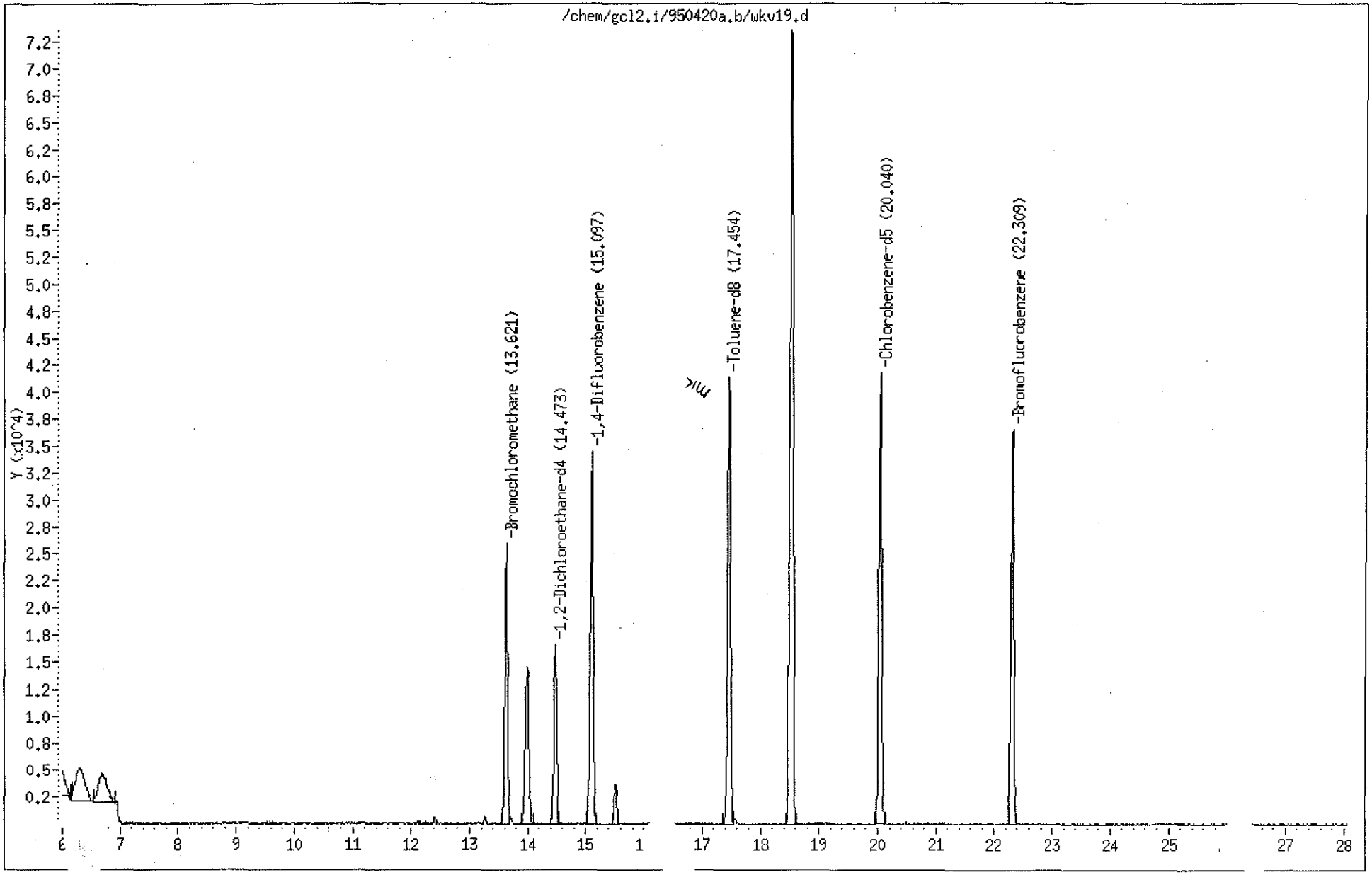
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
107-02-8	Acrolein	NA	
107-13-1	Acrylonitrile	NA	
75-69-4	Trichlorofluoromethane	NA	
75-71-8	Dichlorodifluoromethane	NA	
75-05-8	Acetonitrile	NA	
74-88-4	Iodomethane	NA	
107-12-0	Propionitrile (Ethyl Cyanide)	NA	
107-05-1	3-Chloropropene	NA	
126-98-7	Methacrylonitrile	NA	
74-95-3	Dibromomethane	NA	
78-83-1	Isobutyl alcohol	NA	
106-93-4	1,2-Dibromoethane	NA	
630-20-6	1,1,1,2-Tetrachloroethane	NA	
96-18-4	1,2,3-Trichloropropane	NA	
110-57-6	trans-1,4-Dichloro-2-butene	NA	
96-12-8	1,2-Dibromo-3-chloropropane	NA	
126-99-8	2-Chloro-1,3-Butadiene	NA	
80-62-6	Methylmethacrylate	NA	
97-63-2	Ethylmethacrylate	NA	
76-01-7	Pentachloroethane	NA	

FORM 1 V-2 12/88 Rev.

Data File: /chem/gcl2.i/950420a.b/wkv19.d
Date : 21-APR-1995 01:26
Client ID:
Sample Info: 9504G211-005 BXC420
Purge Volume: 5.0
Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950420a.b/wkv19.d
Lab Smp Id:
Inj Date : 21-APR-1995 01:26
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 9504G211-005 BXC420
Misc Info : GCL#2,DIL=5,1000ULSMP+5ULIS,SS
Comment :
Method : /chem/gcl2.i/950420a.b/8240w2.m
Meth Date : 20-Apr-1995 21:32 petruszj Quant Type: ISTD
Cal Date : 20-APR-1995 20:38 Cal File: yb420.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * 1

Name	Value	Description
Uf	1.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 27 Bromochloromethane	127.80	13.621	13.624	(1.000)	10294	50.00	
29 1,1,1-Trichloroethane	97.00	13.988	13.990	(0.927)	20671	51.69	51.69
$ 33 1,2-Dichloroethane-d4	65.00	14.473	14.476	(1.063)	17579	55.44	55.44
* 36 1,4-Difluorobenzene	114.00	15.097	15.100	(1.000)	51302	50.00	
38 Trichloroethene	130.00	15.513	15.517	(1.028)	2513	5.80	5.80
$ 46 Toluene-d8	98.00	17.454	17.460	(0.871)	51591	49.00	49.00
52 Tetrachloroethene	164.00	18.514	18.522	(0.924)	43962	118.2	118.2
* 56 Chlorobenzene-d5	117.00	20.040	20.049	(1.000)	47745	50.00	
$ 64 Bromofluorobenzene	95.00	22.309	22.311	(1.113)	30064	49.12	49.12

Data File: /chem/gcl2.i/950420a.b/wkv19.d

Date : 21-APR-1995 01:26

ient ID:

Instrument: gcl2.i

Sample Info: 9504G211-005 BXC420

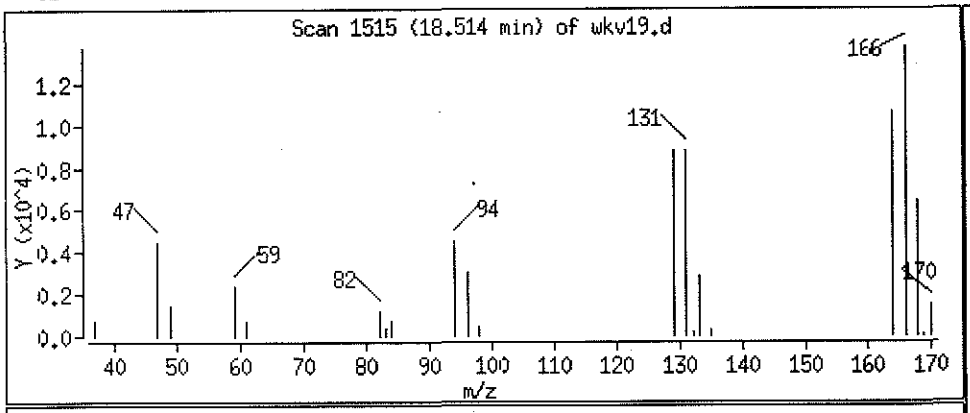
Purge Volume: 5.0

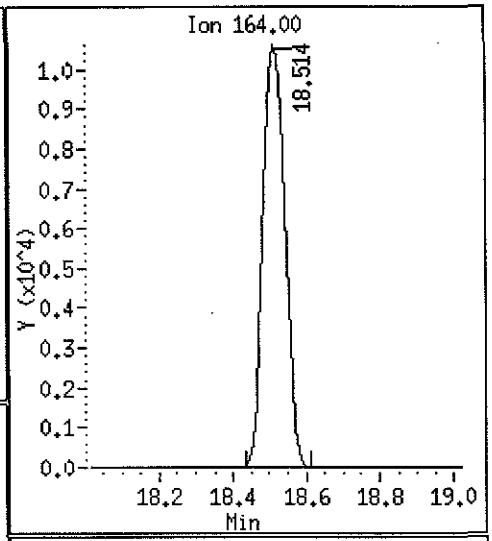
Operator: MANAGER MS

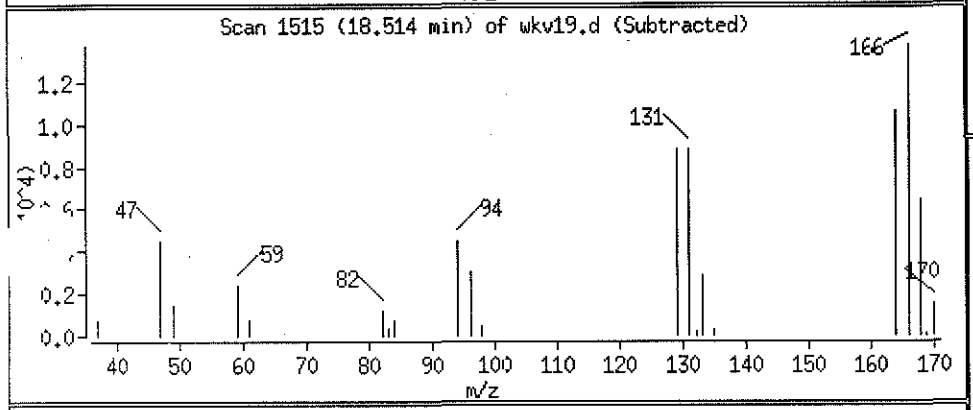
Column phase:

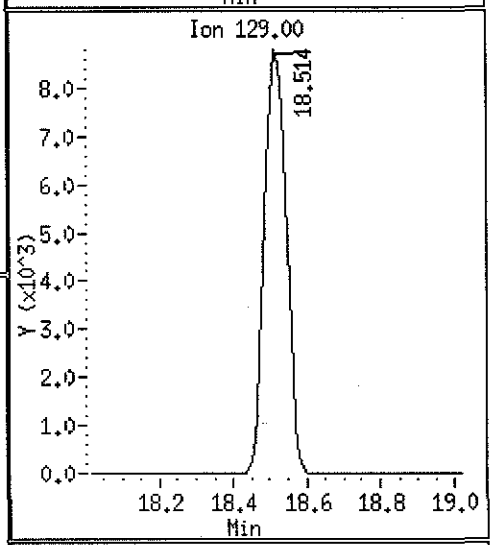
Column diameter: 2.00

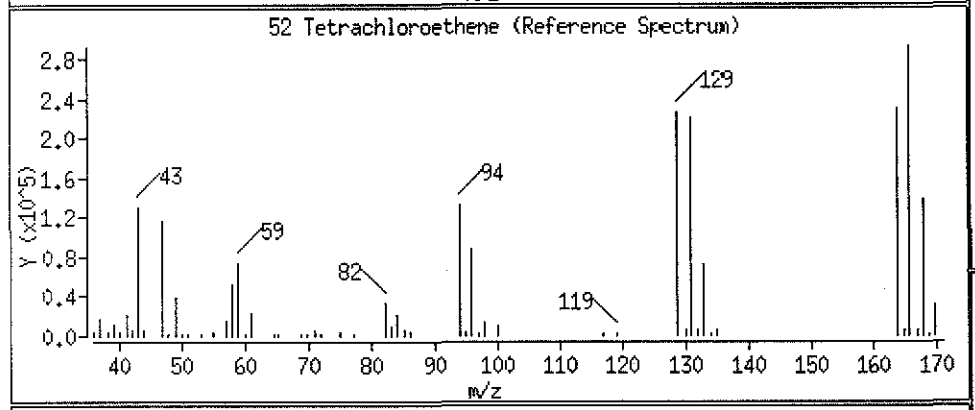
52 Tetrachloroethene

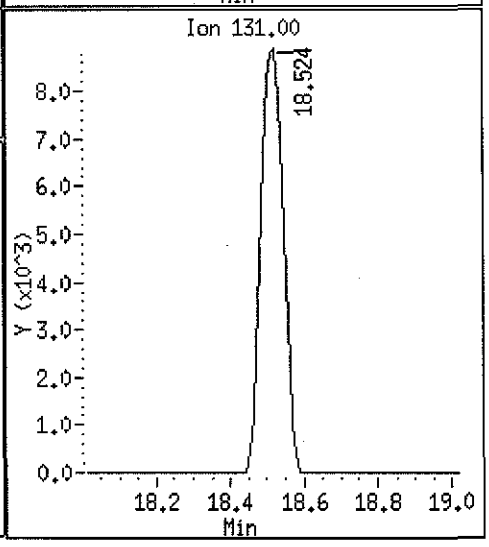


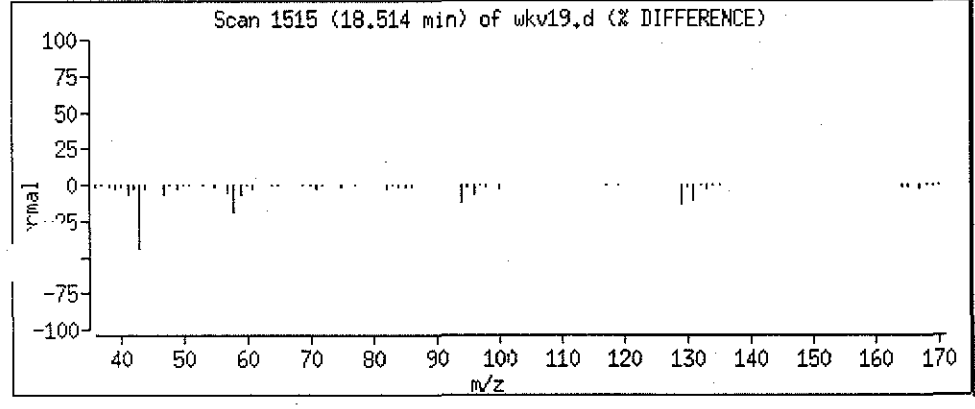












1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG07-GWD

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER Lab Sample ID: 9504G211-007

Sample wt/vol: 5 (g/mL) ML Lab File ID: BWKV10

Level: (low/med) LOW Date Received: 04/10/95

% Moisture: not dec. _____ Date Analyzed: 04/20/95

Column: (pack/cap) PACK Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	16	
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	7	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	30	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG07-GWD

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-007

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BWKV10

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. _____

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	20	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	50	U
107-05-1	3-Chloropropene	20	U
126-98-7	Methacrylonitrile	20	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2000	U
106-93-4	1,2-Dibromoethane	20	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	20	U
97-63-2	Ethylmethacrylate	20	U
76-01-7	Pentachloroethane	20	U

FORM 1 V-2 12/88 Rev.

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TC2-BG07-GWD

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-007

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BWKV10

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. _____

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

Number TICs found: 0

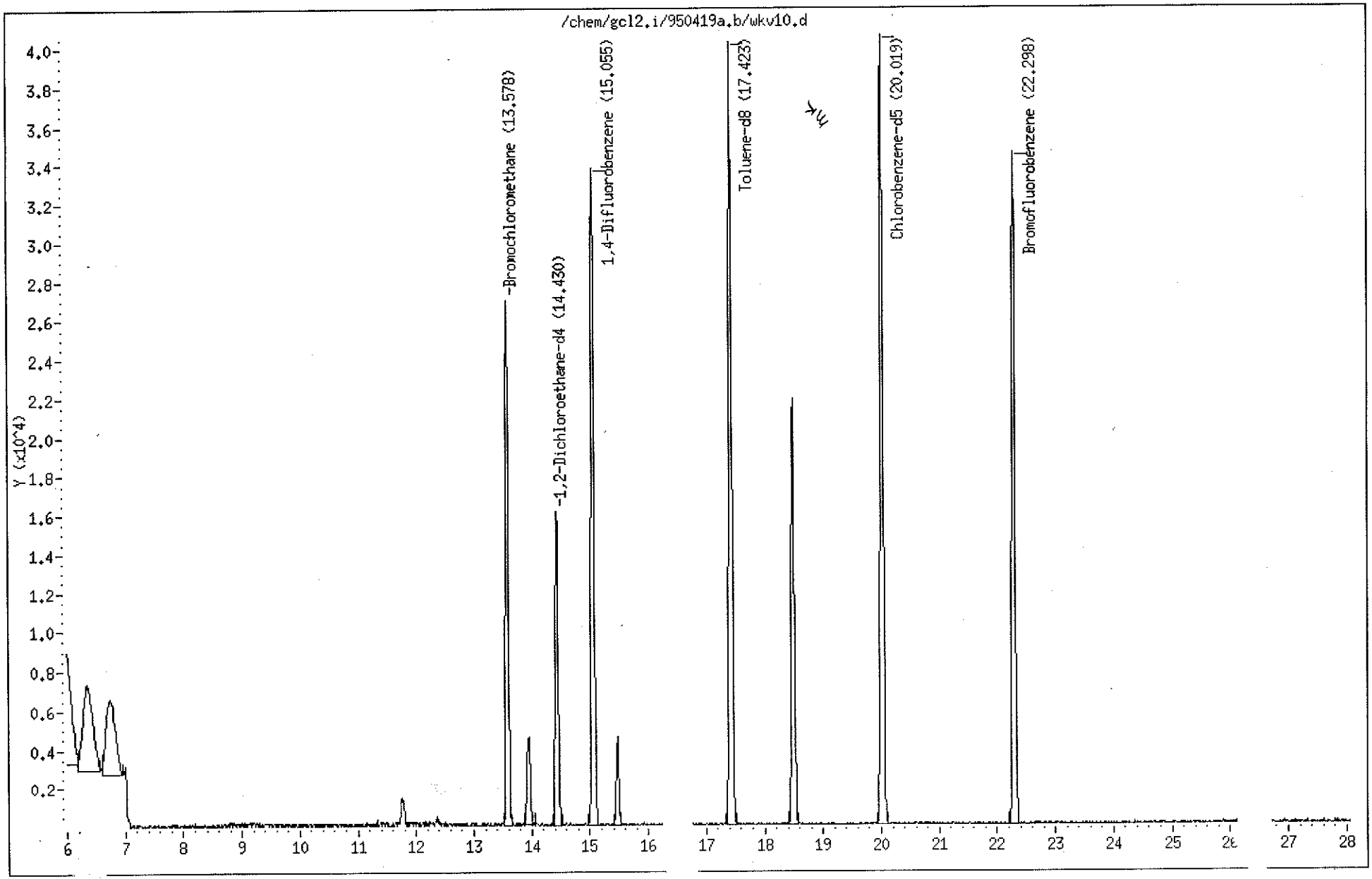
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

Data File: /chem/gcl2.i/950419a.b/wkv10.d
Date : 20-APR-1995 04:33
Client ID:
Sample Info: 9504G211-007 BXC419
Purge Volume: 5.0
Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950419a.b/wkv10.d
Lab Smp Id:
Inj Date : 20-APR-1995 04:33
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 9504G211-007 BXC419
Misc Info : GCL#2,DIL=1,5ML SMP+5ULIS,SS
Comment :
Method : /chem/gcl2.i/950419a.b/8240w2.m
Meth Date : 19-Apr-1995 22:11 petruszj Quant Type: ISTD
Cal Date : 19-APR-1995 21:30 Cal File: yc419.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * 1

Name	Value	Description
Uf	1.000	ng unit correction factor

mk

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 27 Bromochloromethane	127.80	13.578	13.593	(1.000)	10778✓	50.00	
29 1,1,1-Trichloroethane	97.00	13.944	13.960	(0.926)	7099	15.80	15.80(M)
$ 33 1,2-Dichloroethane-d4	65.00	14.430	14.445	(1.063)	17421	54.14✓	54.14
* 36 1,4-Difluorobenzene	114.00	15.055	15.070	(1.000)	51999✓	50.00	
38 Trichloroethene	130.00	15.471	15.486	(1.028)	3410	7.14	7.14
$ 46 Toluene-d8	98.00	17.423	17.439	(0.870)	50893	49.50✓	49.50
52 Tetrachloroethene	164.00	18.493	18.510	(0.924)	12144	30.01	30.01
* 56 Chlorobenzene-d5	117.00	20.019	20.037	(1.000)	46741✓	50.00	
$ 64 Bromofluorobenzene	95.00	22.298	22.307	(1.114)	28721	47.25✓	47.25

QC Flag Legend

M - Compound response manually integrated.

Gulf Coast

Unknown Compounds Quantitation Report

Data file : /chem/gcl2.i/950419a.b/wkv10.d
Lab Smp Id:
Inj Date : 20-APR-1995 04:33
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 9504G211-007 BXC419
Misc Info : GCL#2,DIL=1,5ML SMP+5ULIS,SS
Comment :
Method : /chem/gcl2.i/950419a.b/8240w2.m
Meth Date : 19-Apr-1995 22:11 petruszj
Cal Date : 19-APR-1995 21:30 Cal File: yc419.d
Als bottle: 1
Dil Factor: 1.000 Target Version: 3.12
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

MK

Data File: /chem/gcl2.i/950419a.b/wkv10.d

Date : 20-APR-1995 04:33

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-007 BXC419

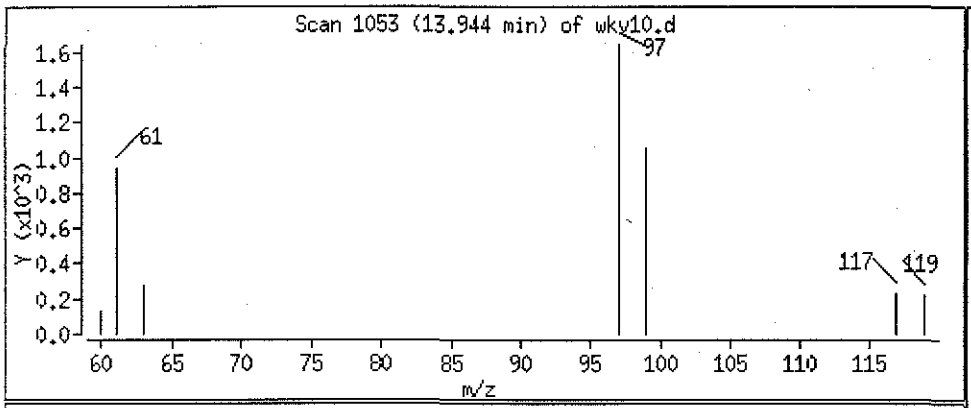
Purge Volume: 5.0

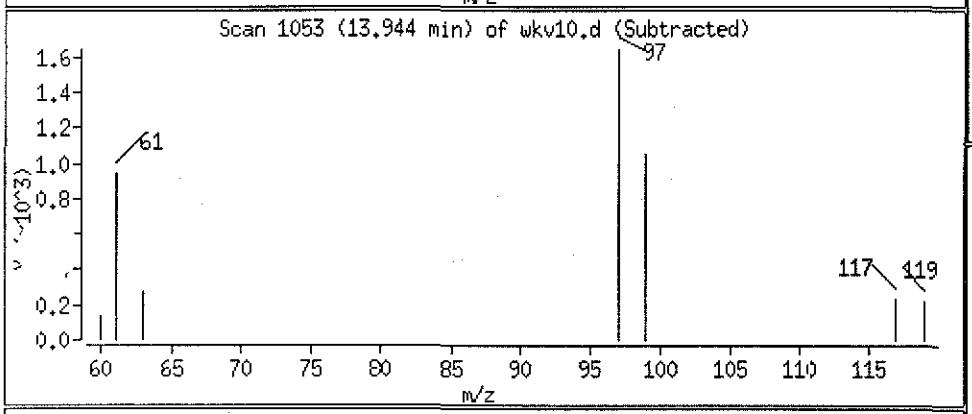
Operator: MANAGER MS

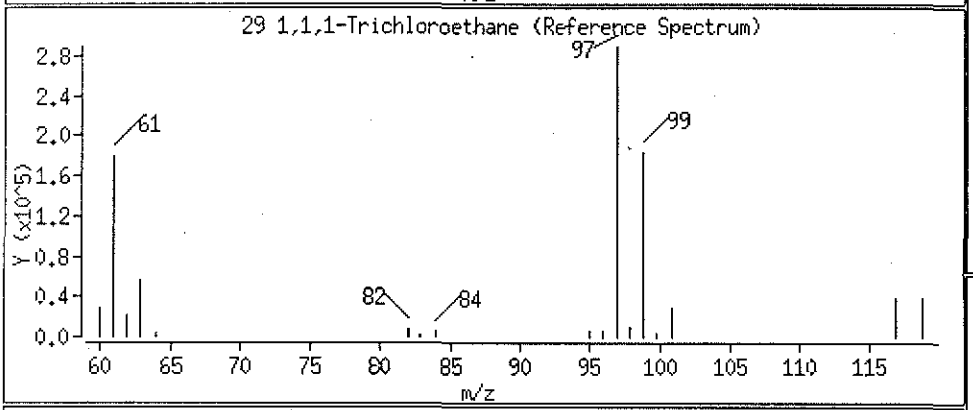
Column phase:

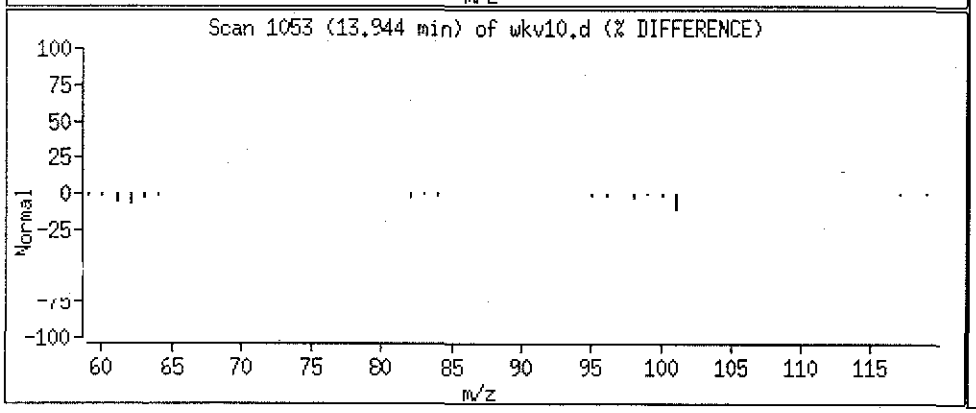
Column diameter: 2.00

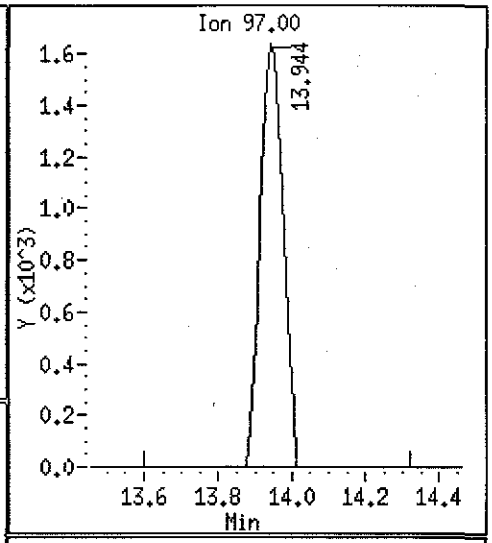
29 1,1,1-Trichloroethane

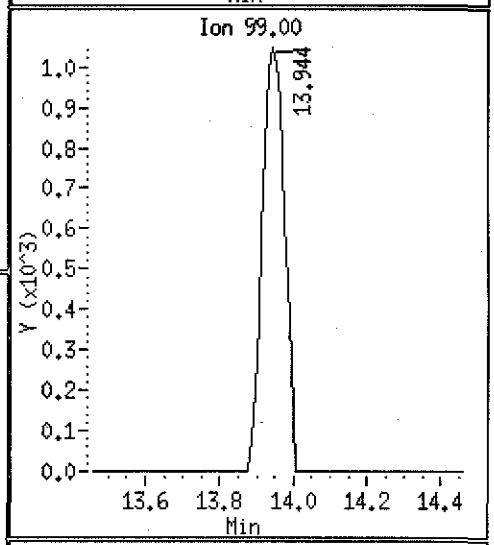


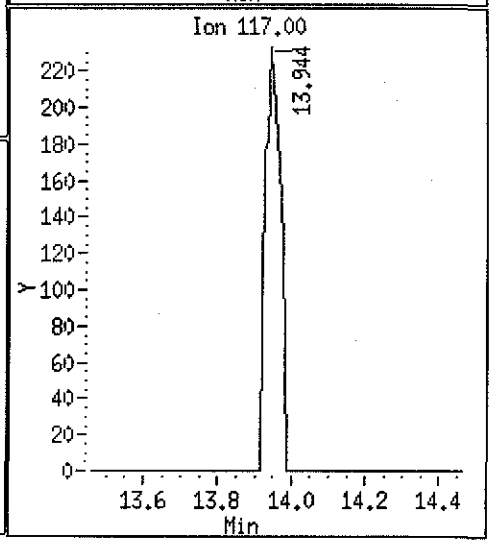












Data File: /chem/gcl2.i/950419a.b/wkv10.d

Date : 20-APR-1995 04:33

lient ID:

Instrument: gcl2.i

ample Info: 9504G211-007 BXC419

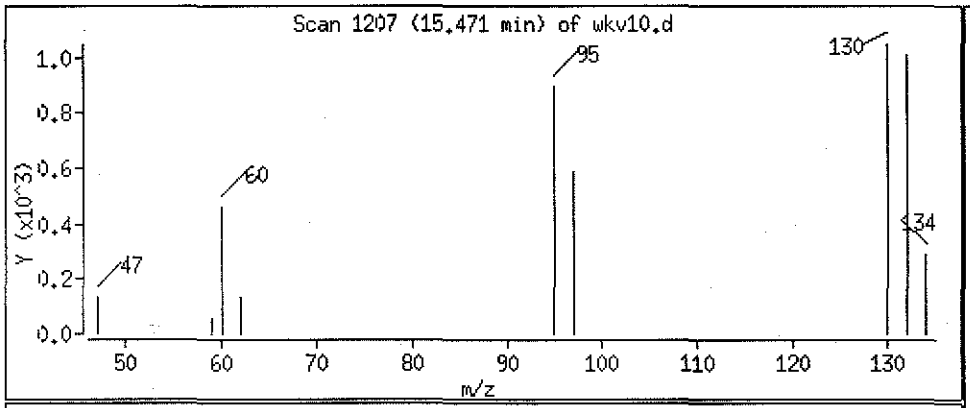
Purge Volume: 5.0

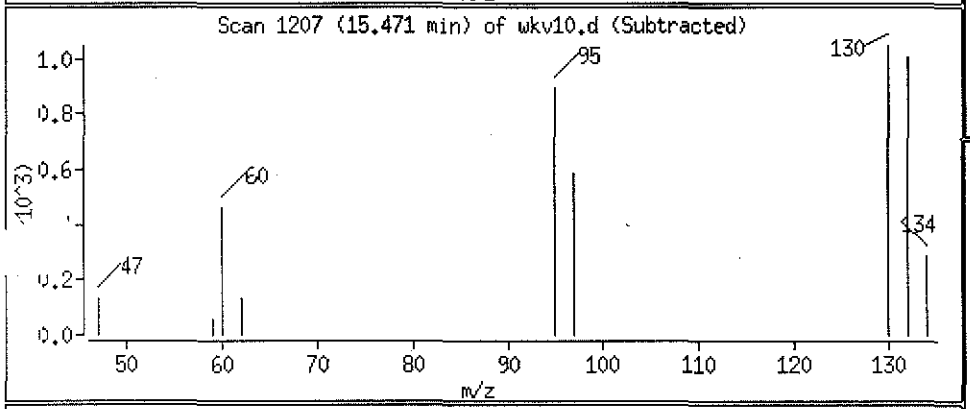
Operator: MANAGER MS

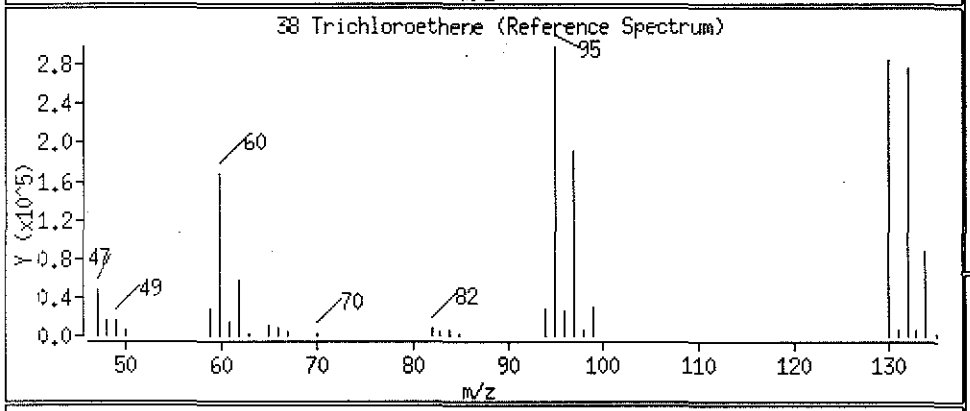
Column phase:

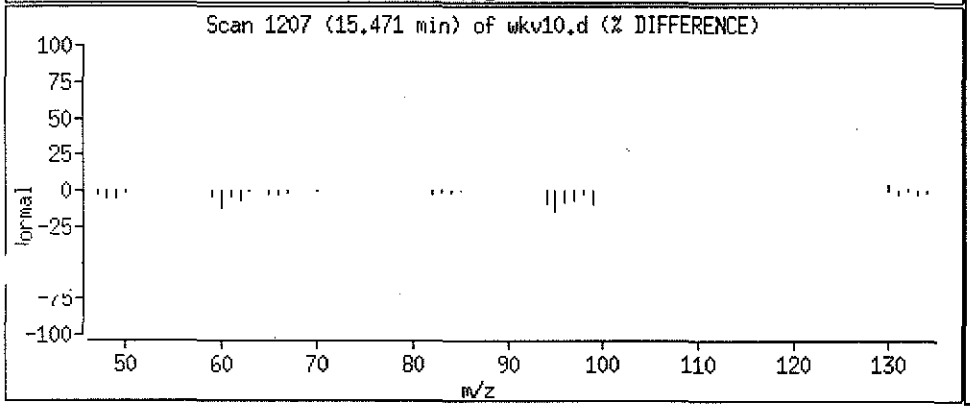
Column diameter: 2.00

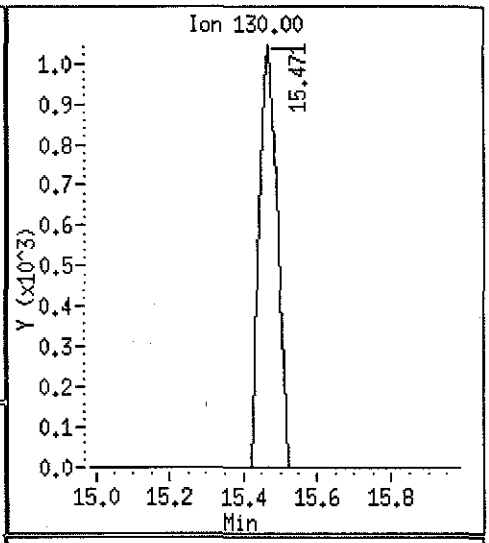
38 Trichloroethene

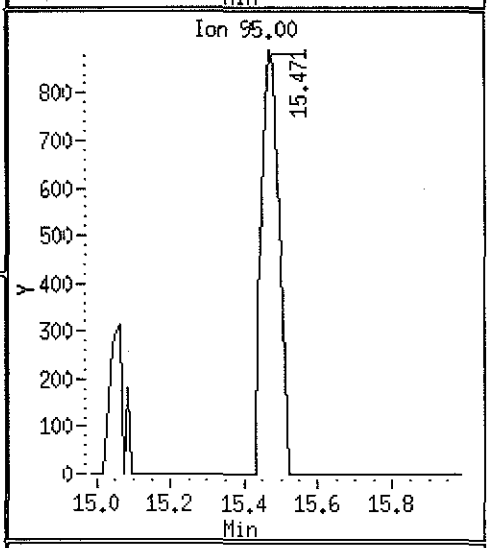


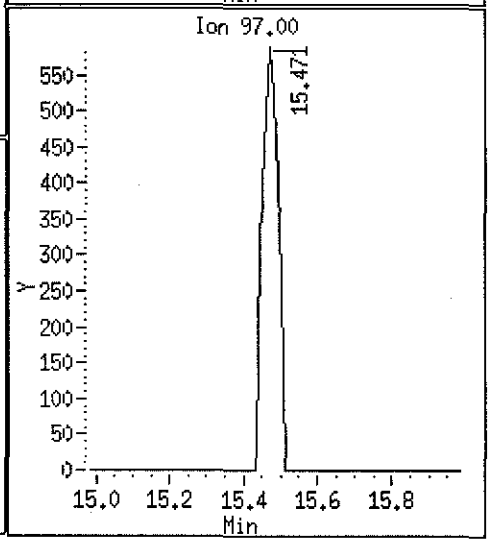












Data File: /chem/gcl2.i/950419a.b/wkv10.d

Date : 20-APR-1995 04:33

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-007 BXC419

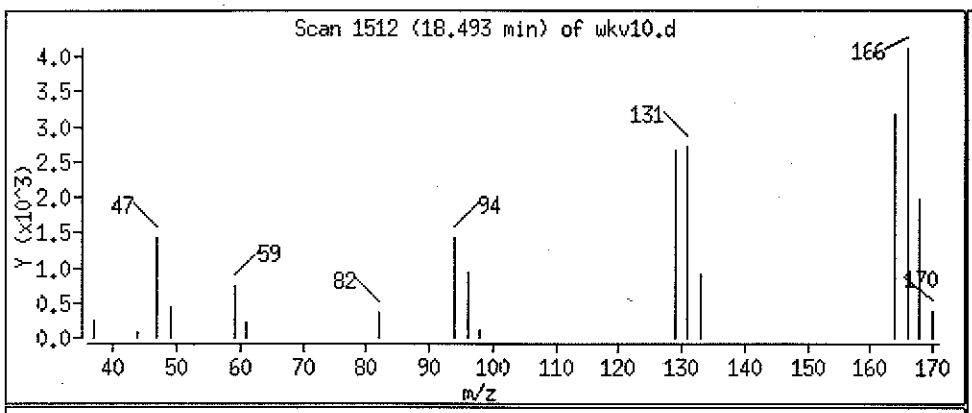
Purge Volume: 5.0

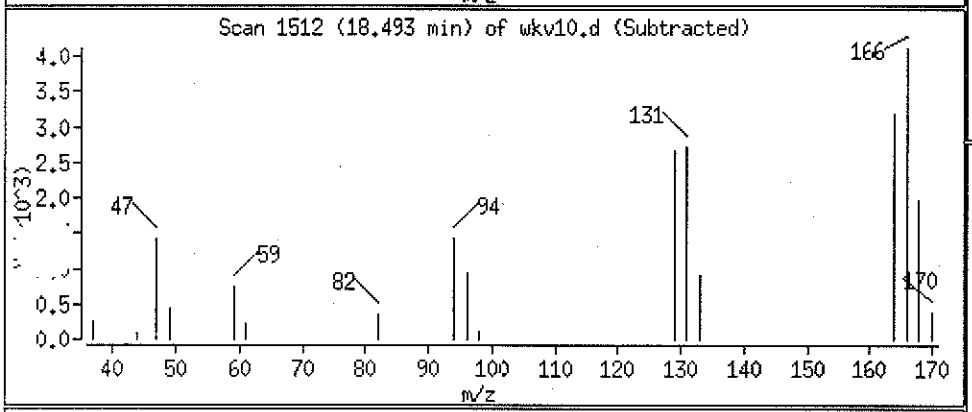
Operator: MANAGER MS

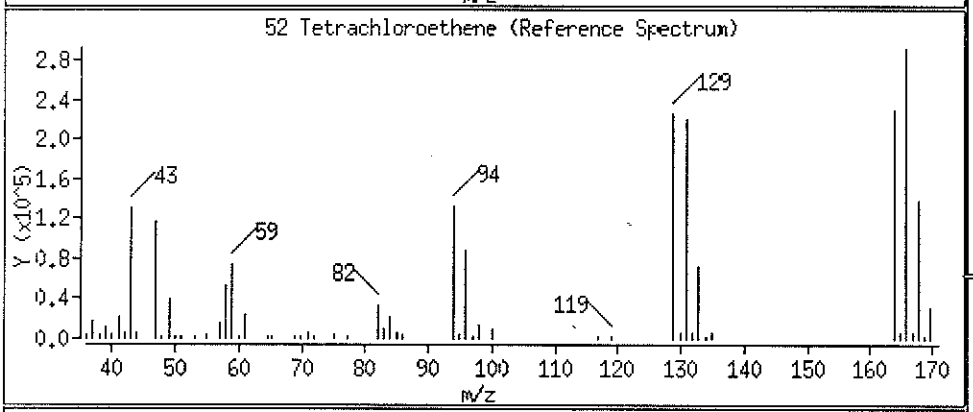
Column phase:

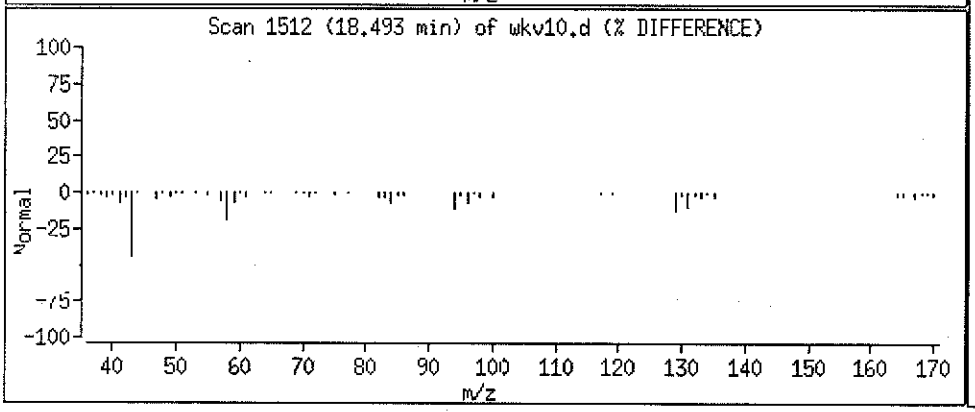
Column diameter: 2.00

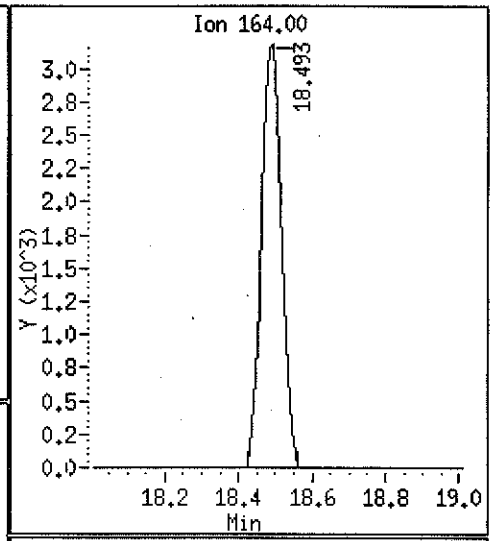
52 Tetrachloroethene

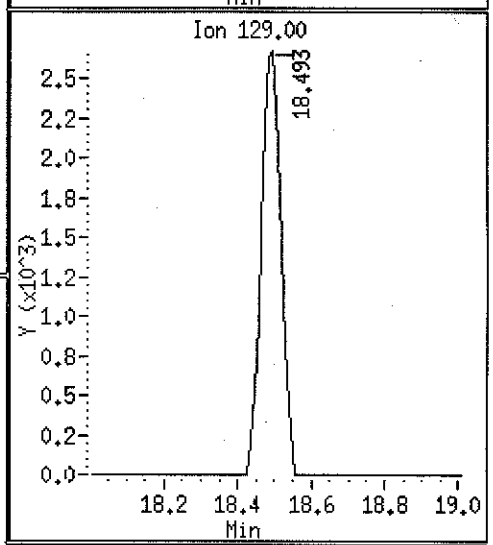


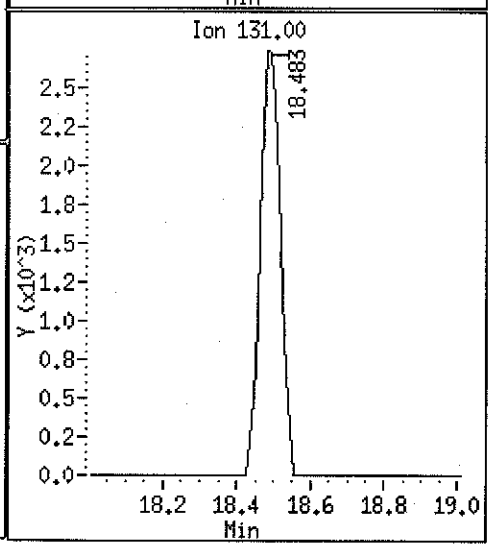












1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-GWS-DP

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER Lab Sample ID: 9504G211-009

Sample wt/vol: 5 (g/mL) ML Lab File ID: BWKV11

Level: (low/med) LOW Date Received: 04/10/95

% Moisture: not dec. _____ Date Analyzed: 04/20/95

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	140	
75-34-3	1,1-Dichloroethane		E
540-59-0	1,2-Dichloroethene (total)	160	
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane		E
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	52	
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	71	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-GWS-DP

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-009

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BWKV11

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. _____

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	20	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	50	U
107-05-1	3-Chloropropene	20	U
126-98-7	Methacrylonitrile	20	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2000	U
106-93-4	1,2-Dibromoethane	20	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	20	U
97-63-2	Ethylmethacrylate	20	U
76-01-7	Pentachloroethane	20	U

FORM 1 V-2 12/88 Rev.

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TC2-BG06-GWS-DP

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-009

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BWKV11

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. _____

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

Number TICs found: 0

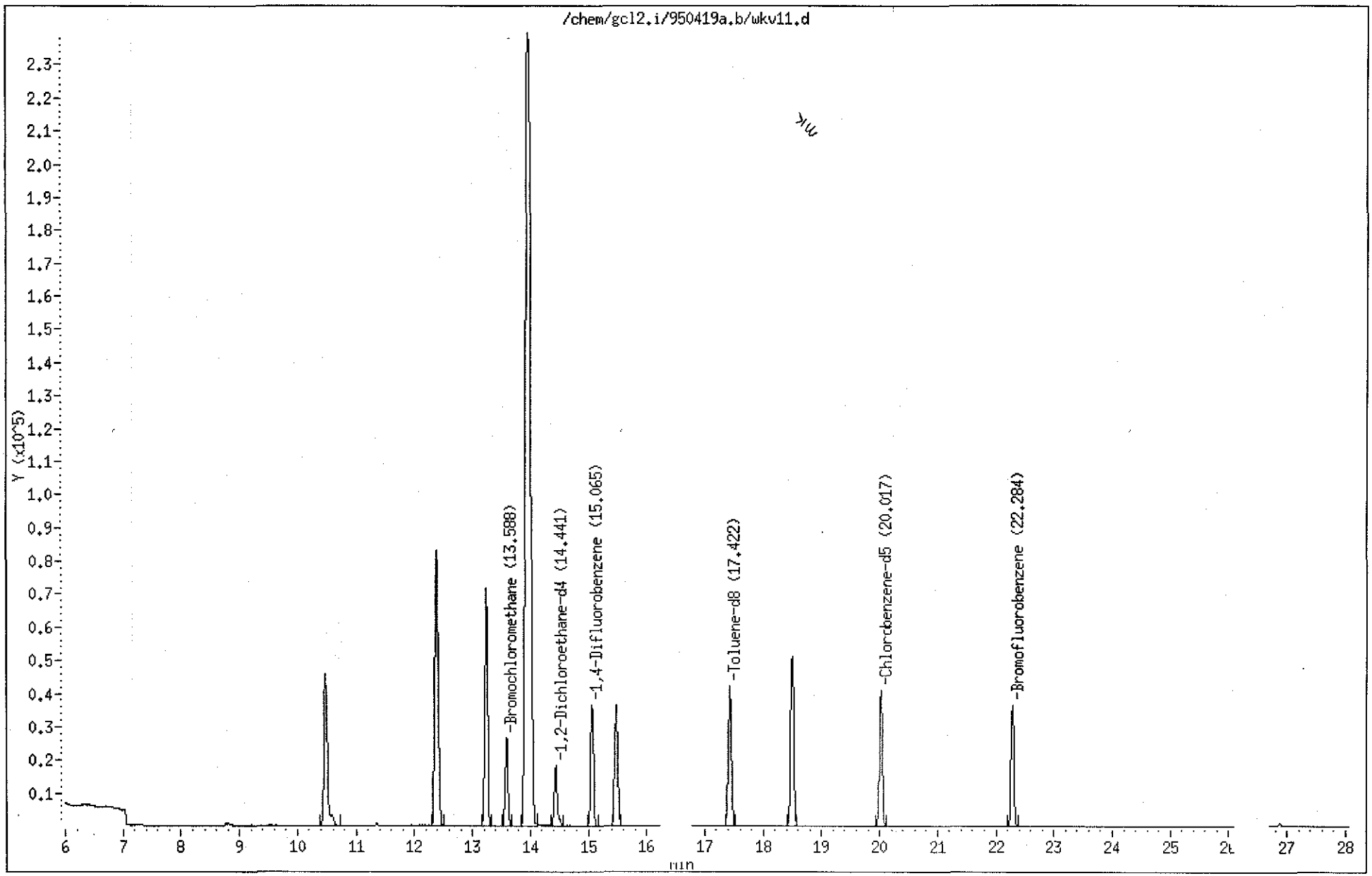
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

Data File: /chem/gcl2.i/950419a.b/wkv11.d
Date : 20-APR-1995 05:09
Client ID:
Sample Info: 9504G211-009 BXC419
Purge Volume: 5.0
Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950419a.b/wkv11.d
Lab Smp Id:
Inj Date : 20-APR-1995 05:09
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 9504G211-009 BXC419
Misc Info : GCL#2,DIL=1,5ML SMP+5ULIS,SS
Comment :
Method : /chem/gcl2.i/950419a.b/8240w2.m
Meth Date : 19-Apr-1995 22:11 petruszj Quant Type: ISTD
Cal Date : 19-APR-1995 21:30 Cal File: yc419.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * 1

Name	Value	Description
Uf	1.000	ng unit correction factor

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	11 1,1-Dichloroethene	96.00	10.478	10.451	(0.771)	38806	140.1	140.1
	19 1,1-Dichloroethane	63.00	12.380	12.383	(0.911)	171432	219.7 (E)	219.7
	21 1,2-Dichloroethene (total)	96.00	13.241	13.246	(0.974)	54519	158.7	158.7
	22 cis-1,2-Dichloroethene	96.00	13.241	13.246	(0.974)	54519	126.7	126.7
*	27 Bromochloromethane	127.80	13.588	13.593	(1.000)	10578	50.00	
	29 1,1,1-Trichloroethane	97.00	13.965	13.960	(0.927)	424855	909.5 (E)	909.5
	30 Carbon Tetrachloride	116.80	13.965	14.207	(0.927)	57439	136.9	136.9
$	33 1,2-Dichloroethane-d4	65.00	14.441	14.445	(1.063)	19169	60.70 SO	60.70
*	36 1,4-Difluorobenzene	114.00	15.065	15.070	(1.000)	54046	50.00	
	38 Trichloroethene	130.00	15.481	15.486	(1.028)	25653	51.65	51.65
$	46 Toluene-d8	98.00	17.422	17.439	(0.870)	54135	52.30	52.30
	52 Tetrachloroethene	164.00	18.492	18.510	(0.924)	29072	71.37	71.37
*	56 Chlorobenzene-d5	117.00	20.017	20.037	(1.000)	47059	50.00	
$	64 Bromofluorobenzene	95.00	22.284	22.307	(1.113)	29876	48.82	48.82

Gulf Coast

Unknown Compounds Quantitation Report

Data file : /chem/gcl2.i/950419a.b/wkv11.d
Lab Smp Id:
Inj Date : 20-APR-1995 05:09
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 9504G211-009 BXC419
Misc Info : GCL#2,DIL=1,5ML SMP+5ULIS,SS
Comment :
Method : /chem/gcl2.i/950419a.b/8240w2.m
Meth Date : 19-Apr-1995 22:11 petruszj
Cal Date : 19-APR-1995 21:30 Cal File: yc419.d
Als bottle: 1
Dil Factor: 1.000 Target Version: 3.12
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

MK

Data File: /chem/gcl2.i/950419a.b/wkv11.d

Date : 20-APR-1995 05:09

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-009 BXC419

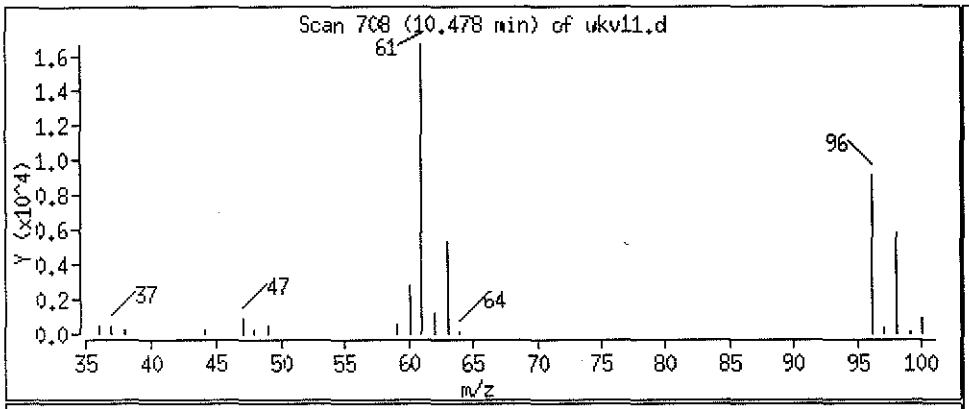
Purge Volume: 5.0

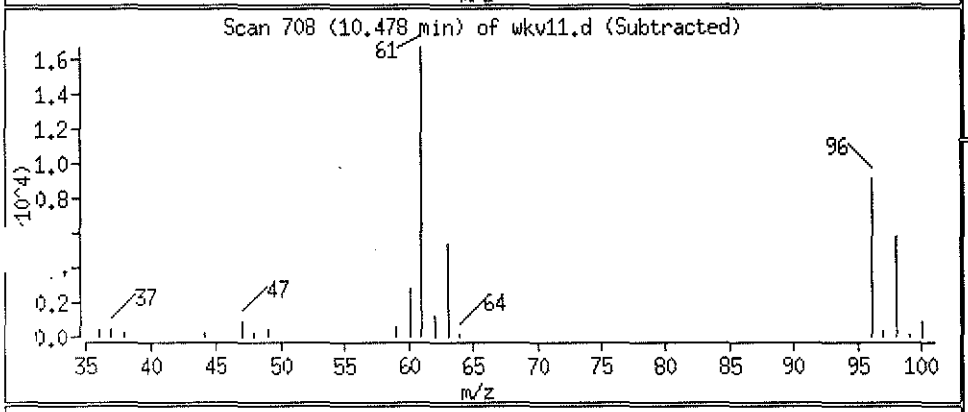
Operator: MANAGER MS

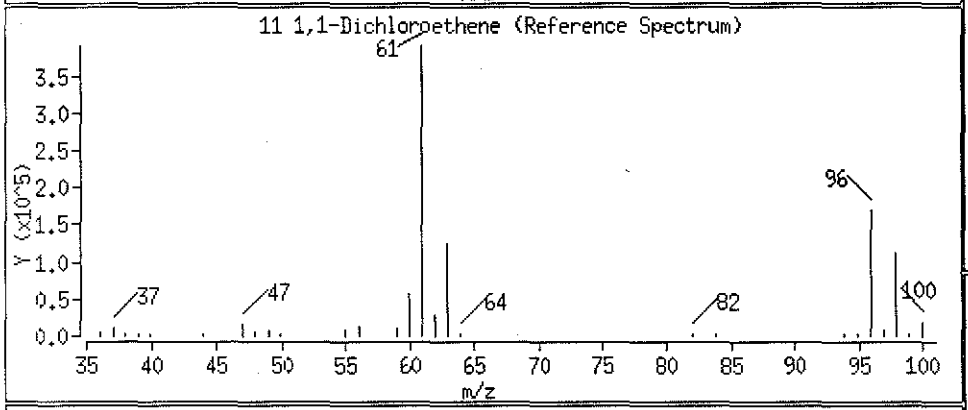
Column phase:

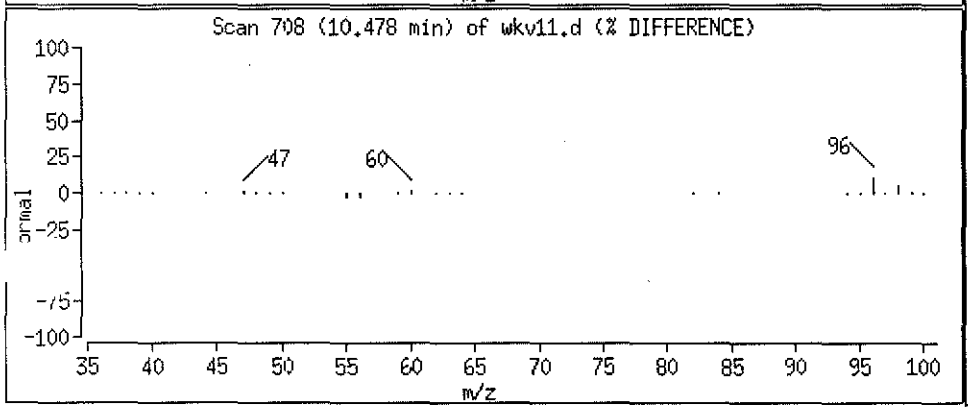
Column diameter: 2.00

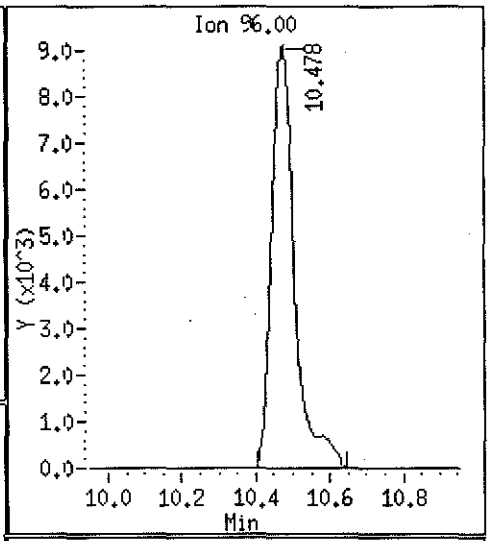
11 1,1-Dichloroethene

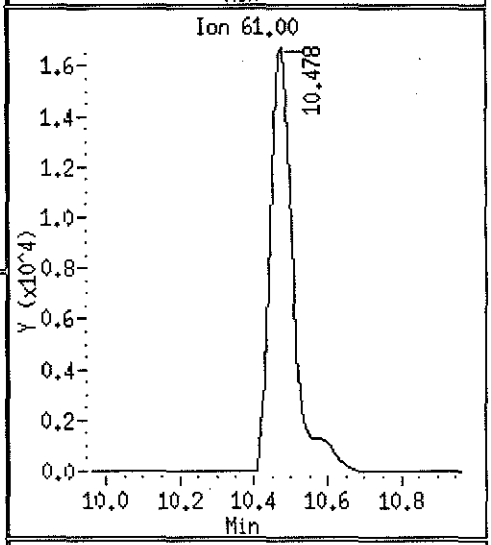


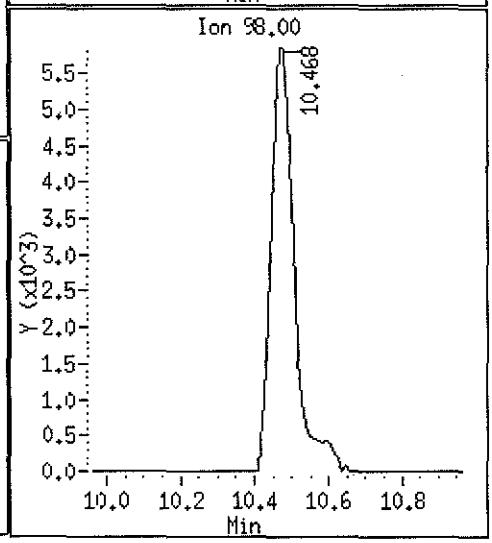












Data File: /chem/gcl2.i/950419a.b/wkv11.d

Date : 20-APR-1995 05:09

`lient ID:

Instrument: gcl2.i

Sample Info: 9504G211-009 BXC419

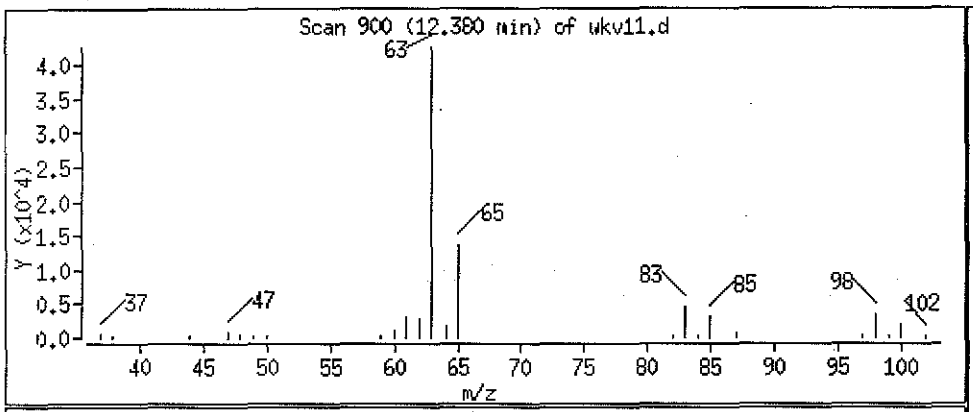
Purge Volume: 5.0

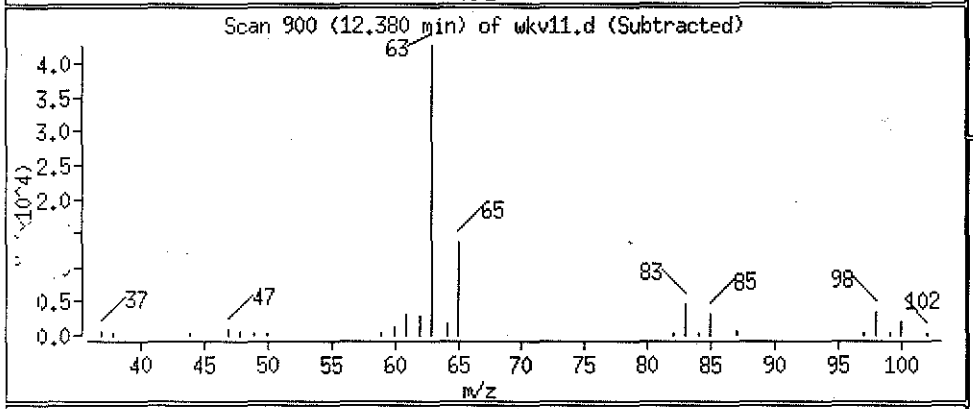
Operator: MANAGER MS

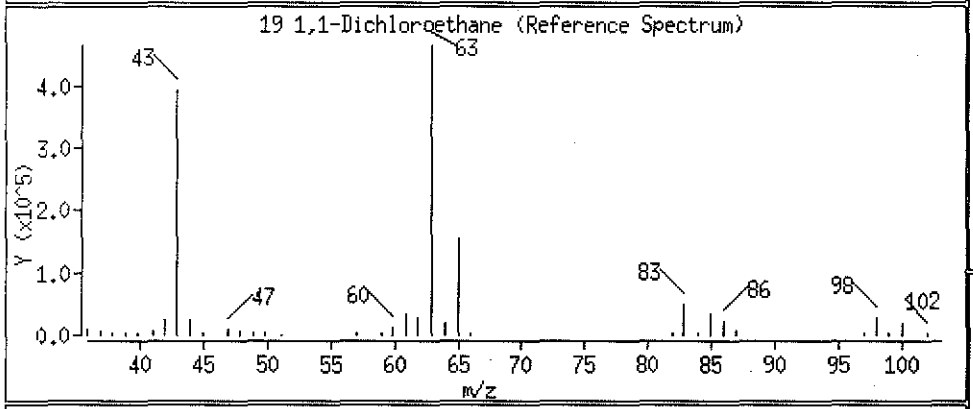
Column phase:

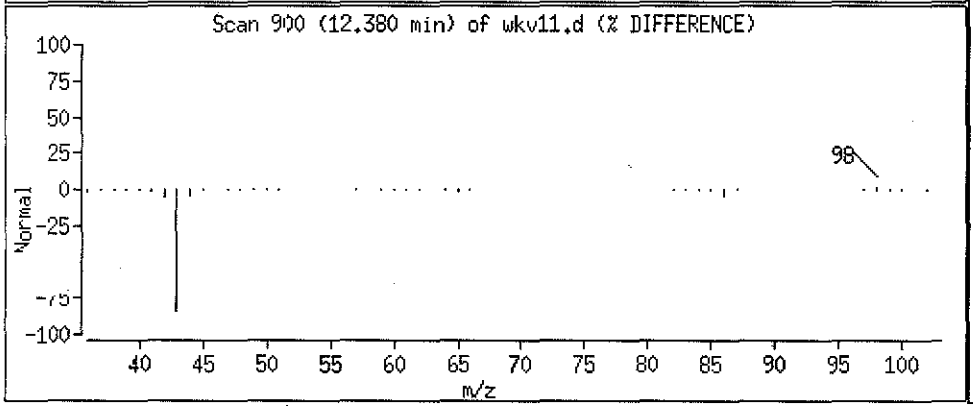
Column diameter: 2.00

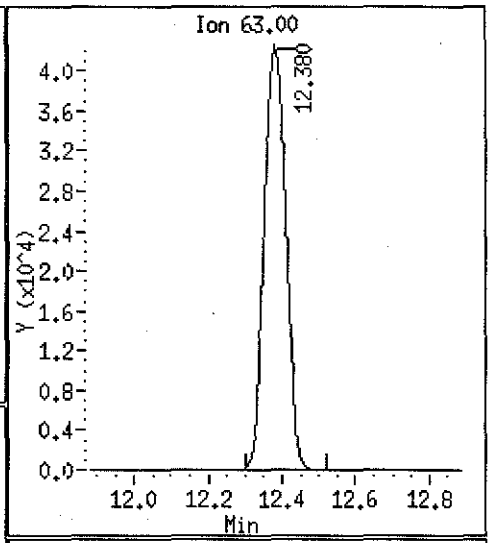
19 1,1-Dichloroethane

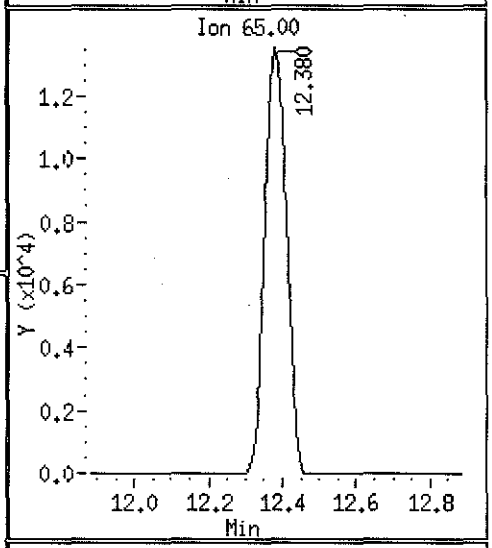


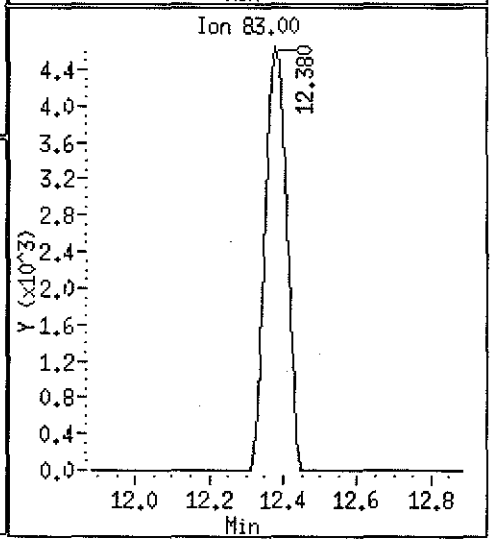












Data File: /chem/gcl2.i/950419a.b/wkv11.d

Date : 20-APR-1995 05:09

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-009 BXC419

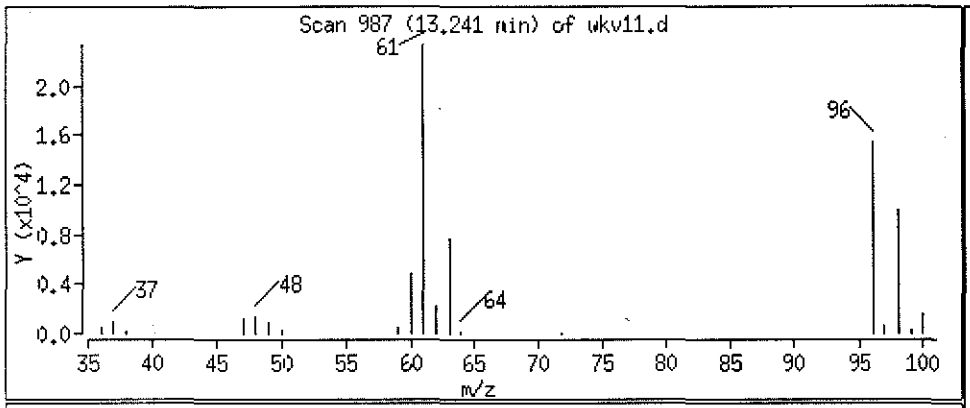
Purge Volume: 5.0

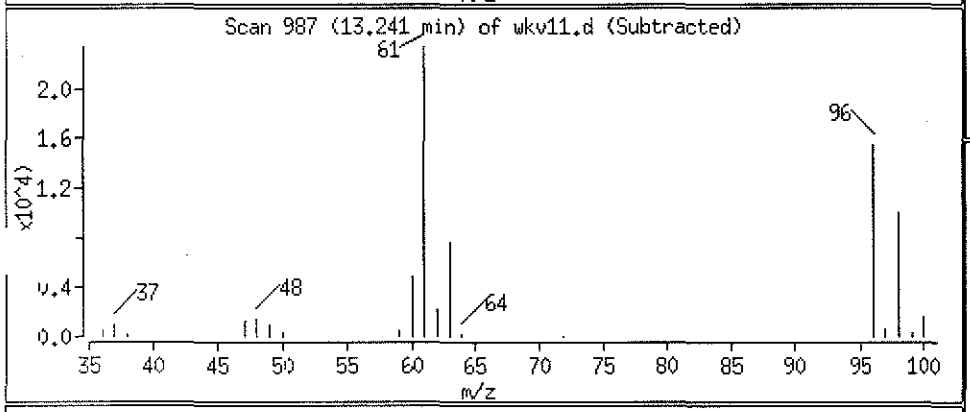
Operator: MANAGER MS

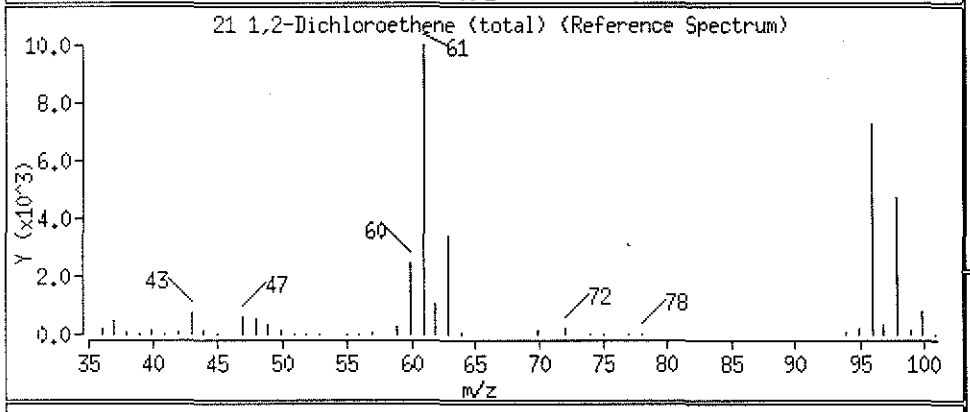
Column phase:

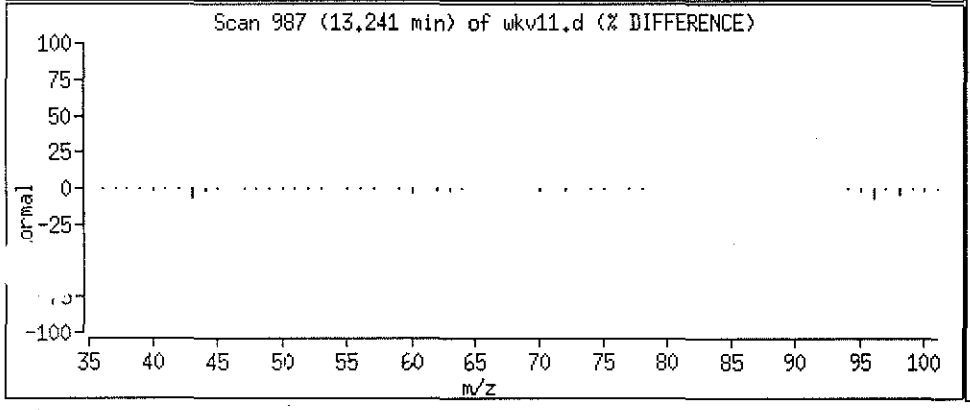
Column diameter: 2.00

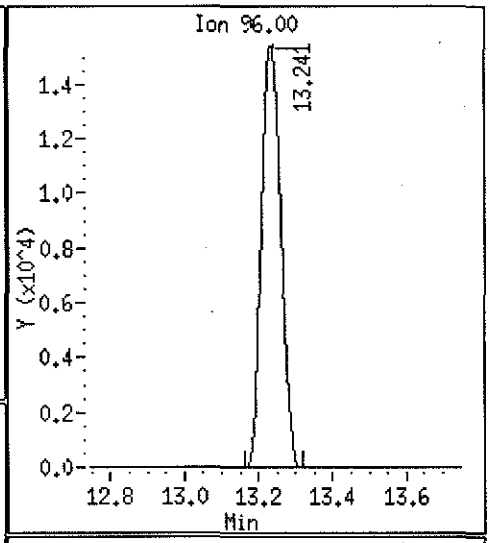
21 1,2-Dichloroethene (total)

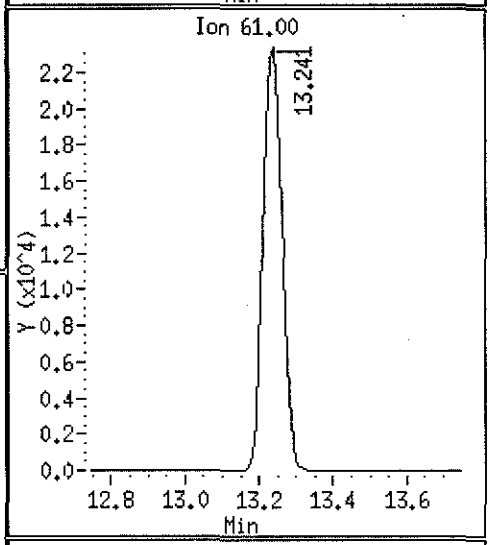


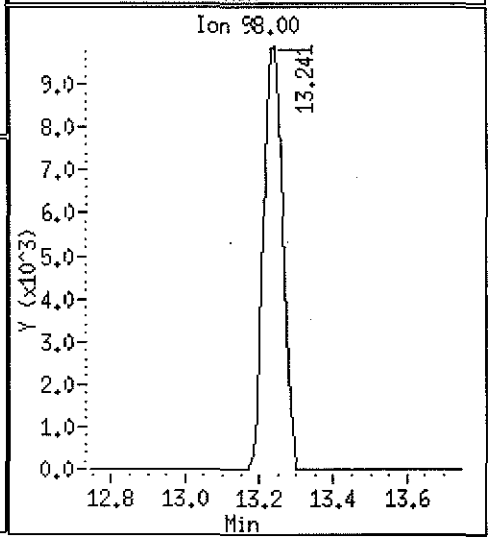












Data File: /chem/gcl2.i/950419a.b/wkv11.d

Date : 20-APR-1995 05:09

lient ID:

Instrument: gcl2.i

Sample Info: 9504G211-009 BXC419

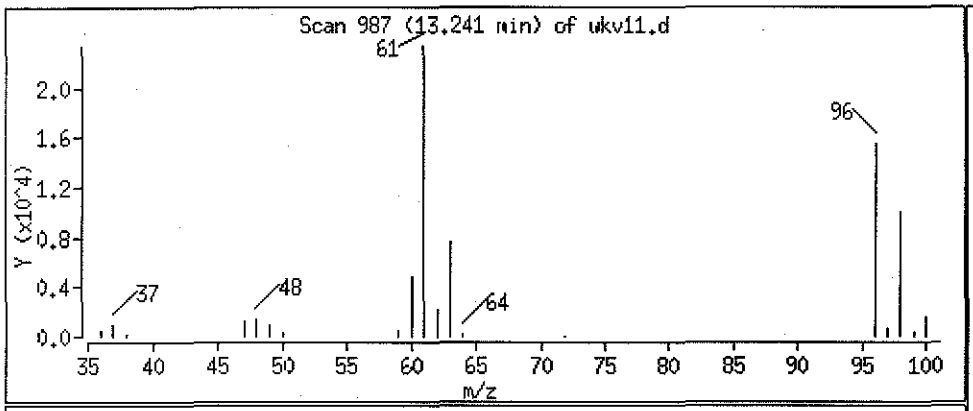
Purge Volume: 5.0

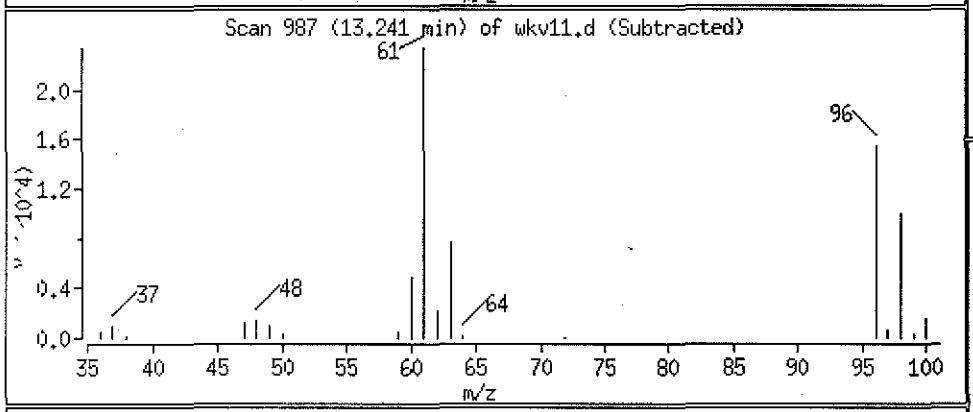
Operator: MANAGER MS

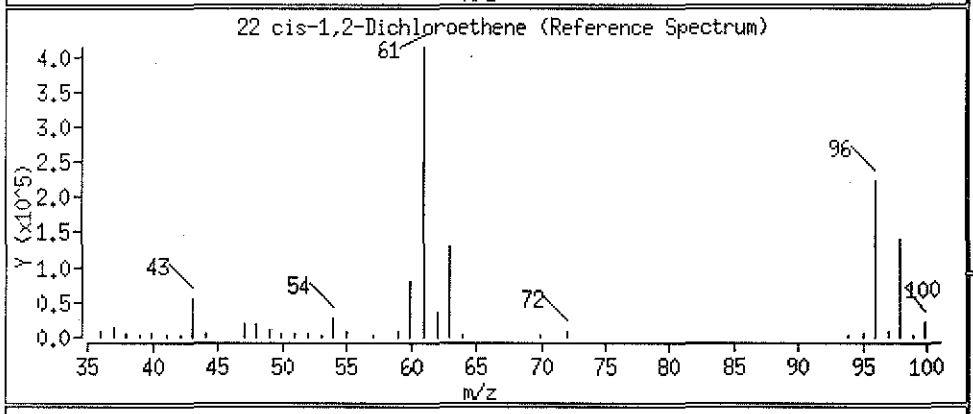
Column phase:

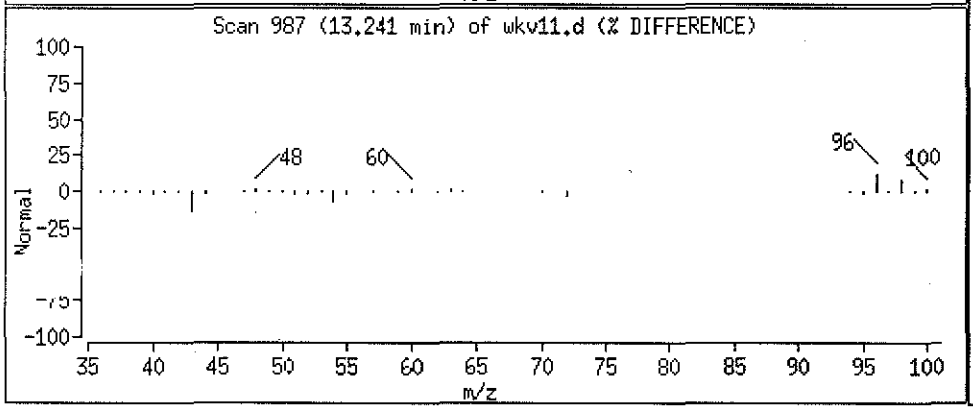
Column diameter: 2.00

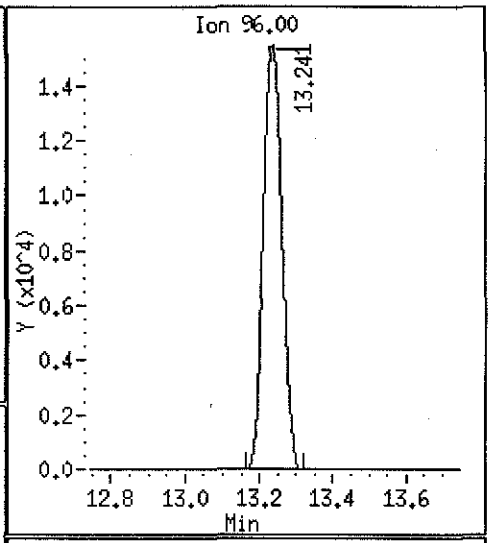
22 cis-1,2-Dichloroethene

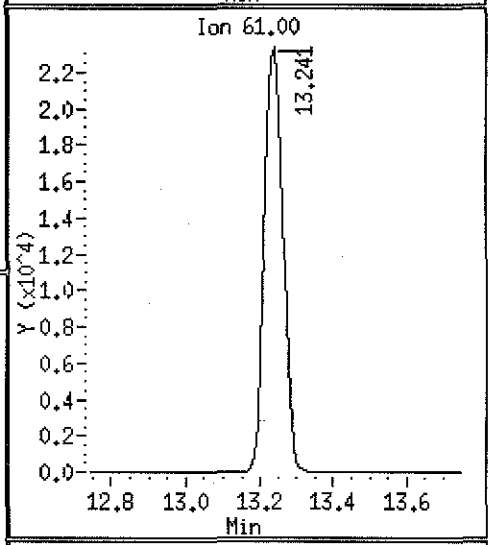


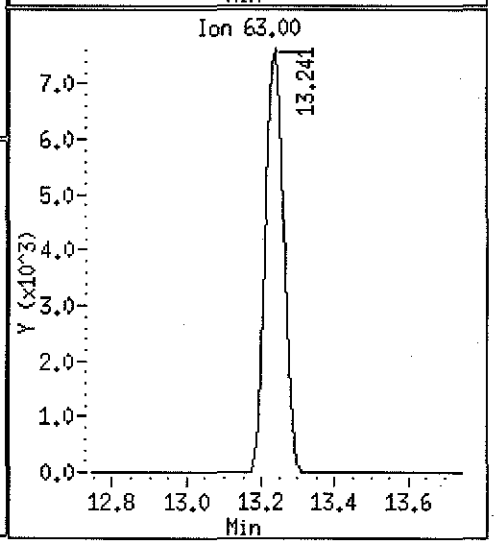












Data File: /chem/gcl2.i/950419a.b/wkv11.d

Date : 20-APR-1995 05:09

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-009 BXC419

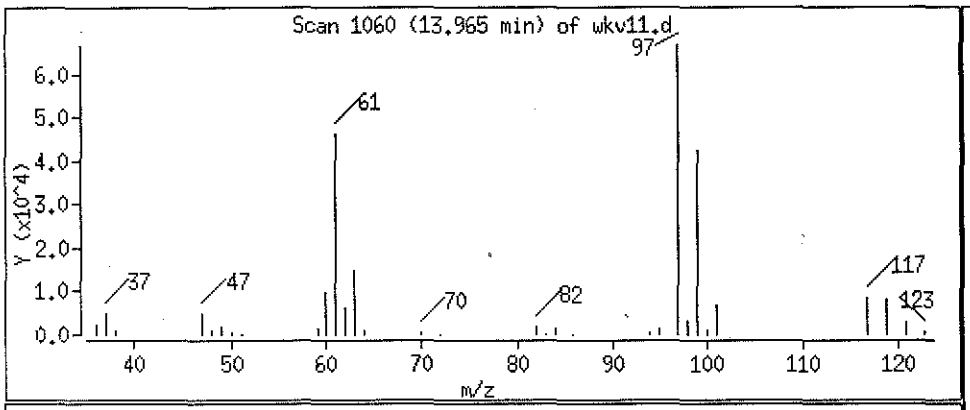
Purge Volume: 5.0

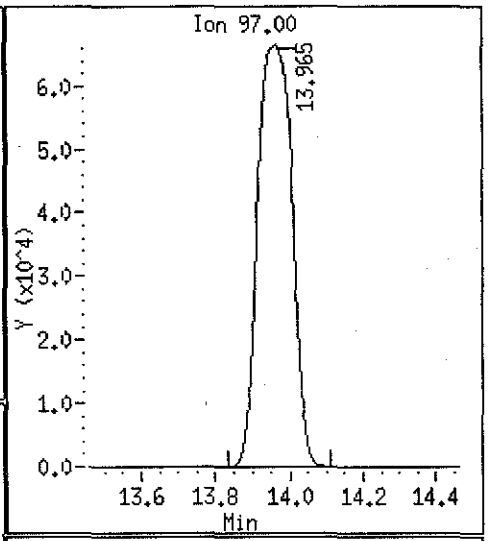
Operator: MANAGER MS

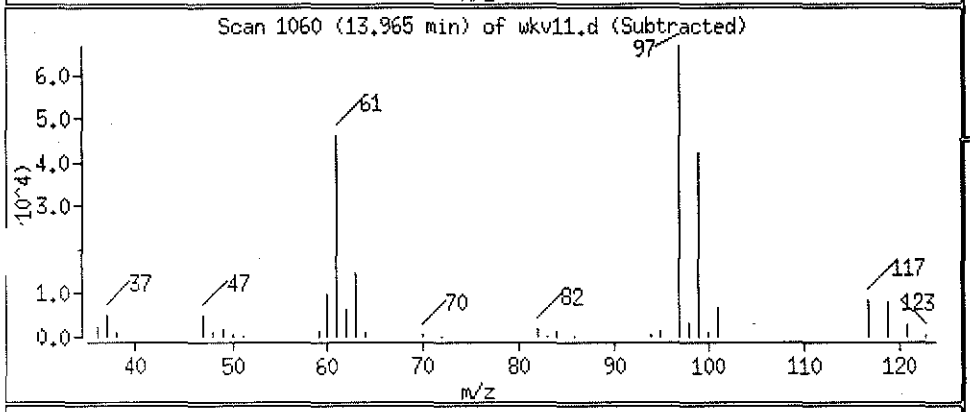
Column phase:

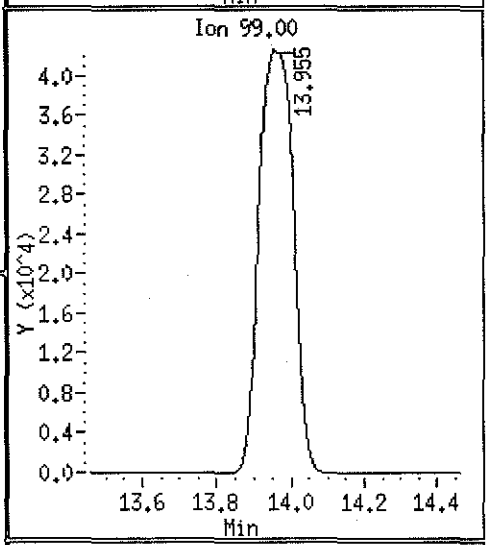
Column diameter: 2.00

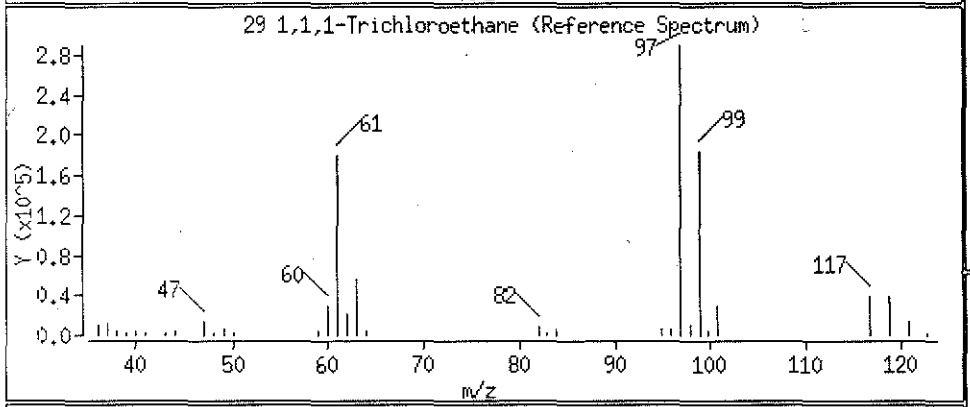
29 1,1,1-Trichloroethane

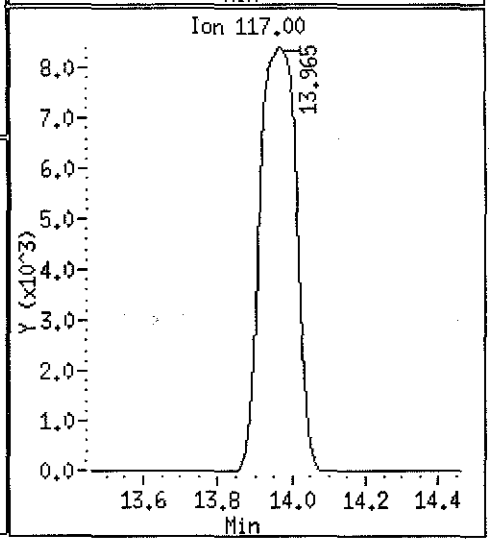


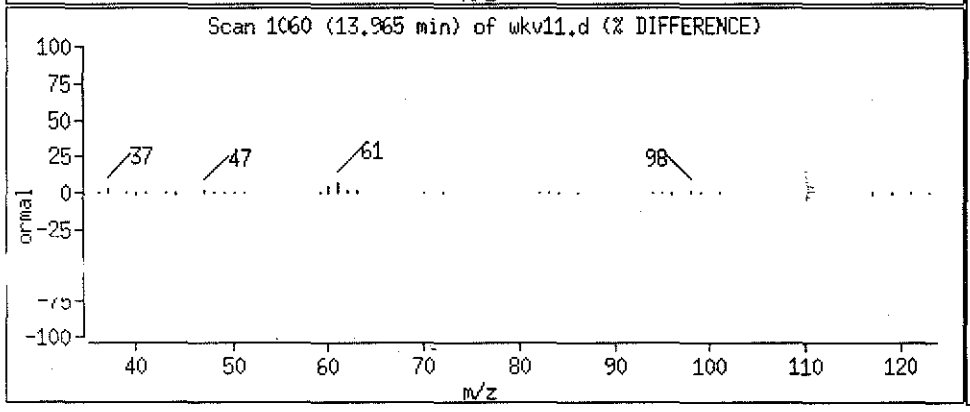












Data File: /chem/gcl2.i/950419a.b/wkv11.d

Date : 20-APR-1995 05:09

Client ID:

Instrument: gcl2.i

Sample Info: 9504G211-009 BXC419

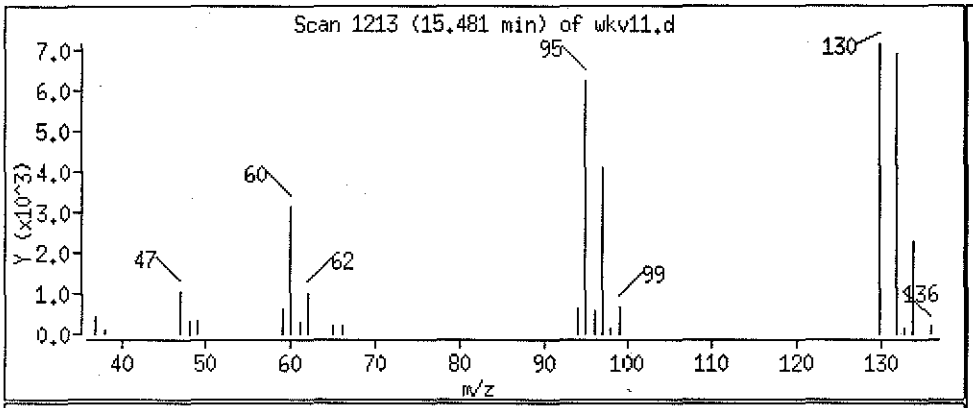
Purge Volume: 5.0

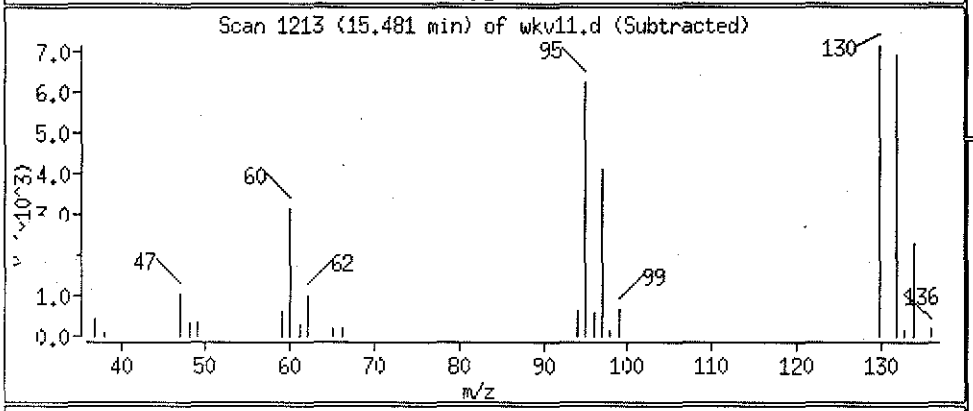
Operator: MANAGER MS

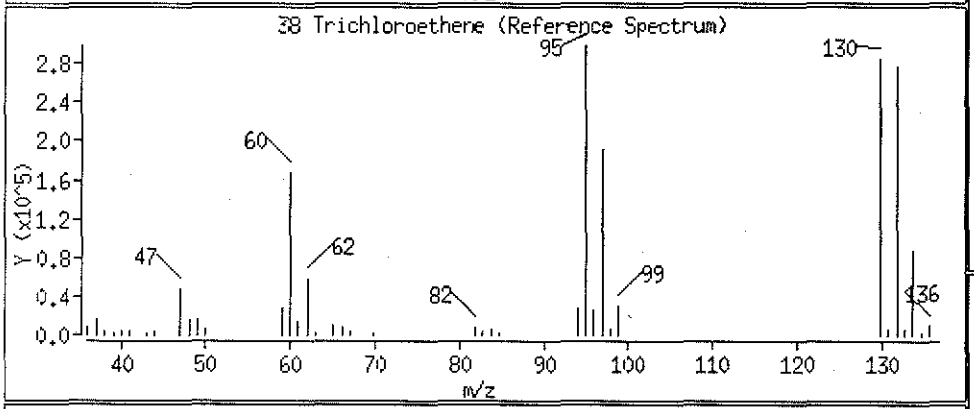
Column phase:

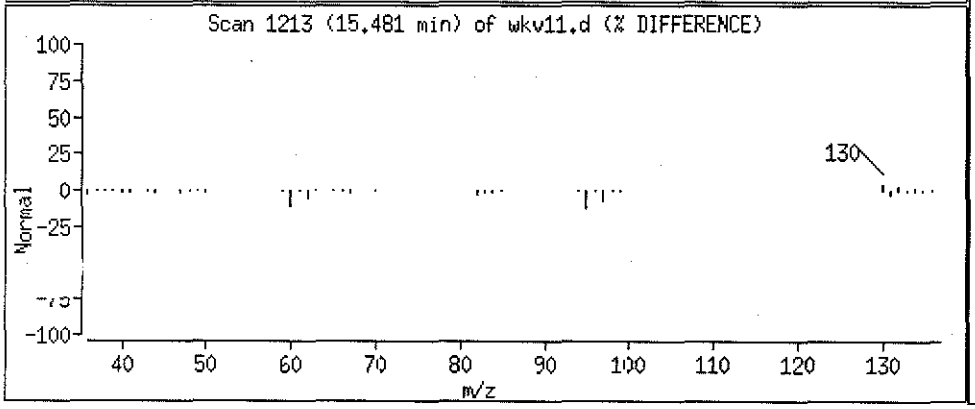
Column diameter: 2.00

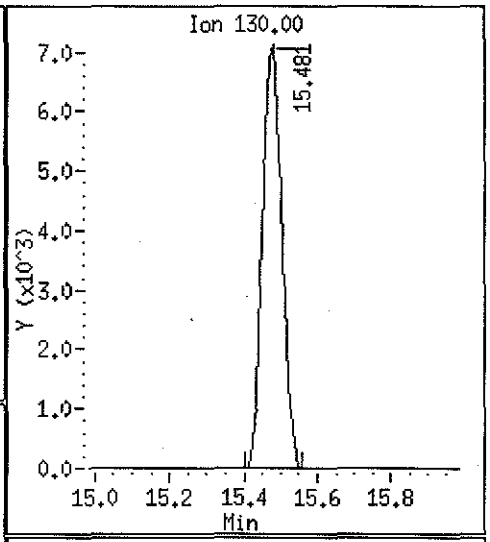
38 Trichloroethene

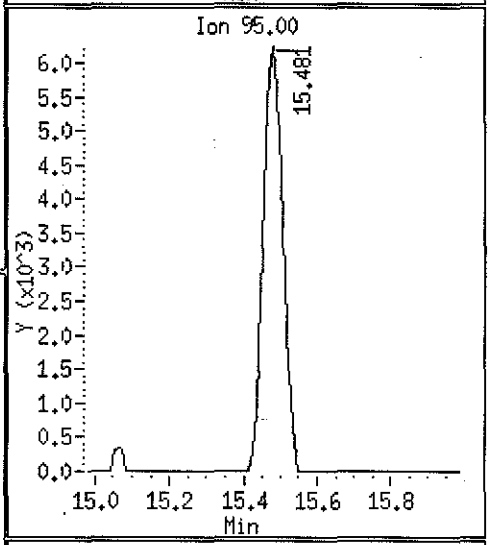


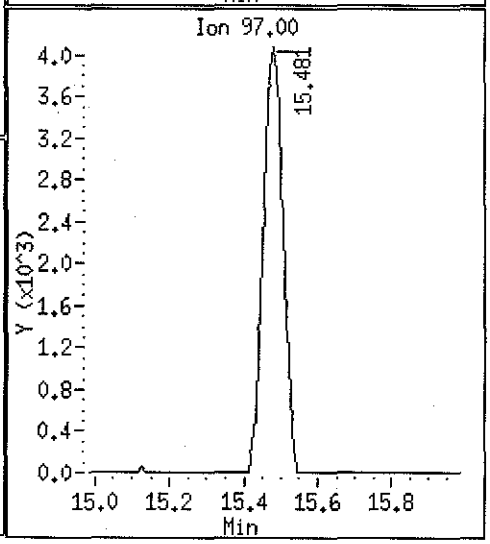












Data File: /chem/gcl2.i/950419a.b/wkv11.d

Date : 20-APR-1995 05:09

Client ID:

Sample Info: 9504G211-009 BXC419

Instrument: gcl2.i

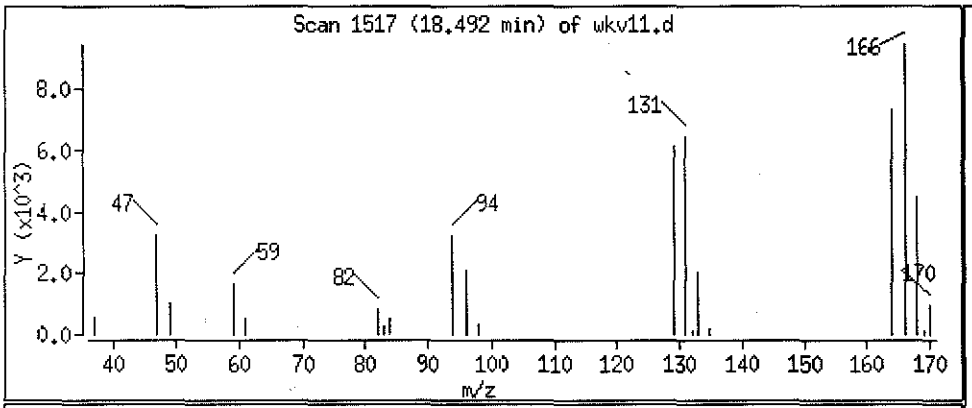
Purge Volume: 5.0

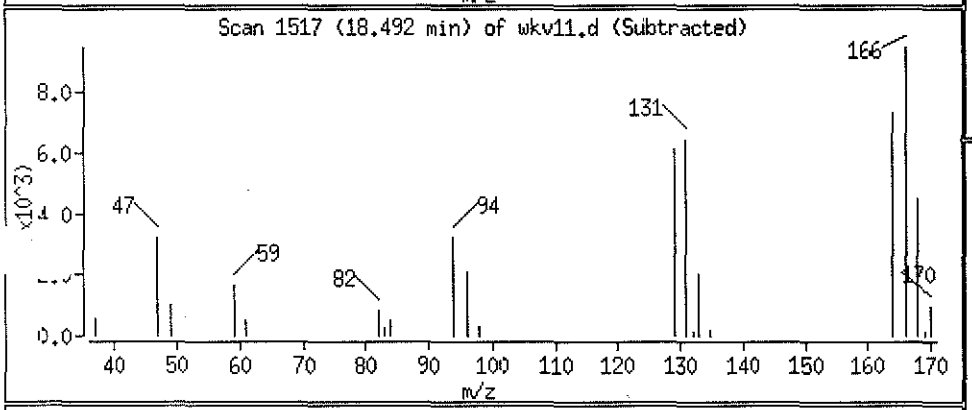
Operator: MANAGER MS

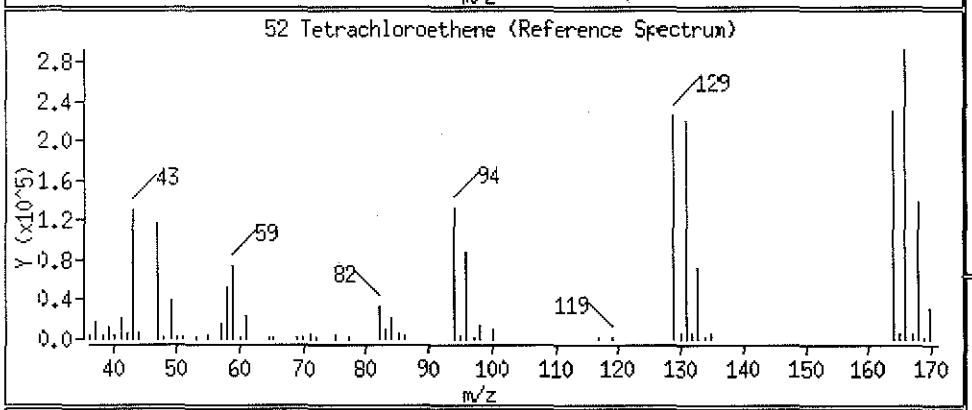
Column phase:

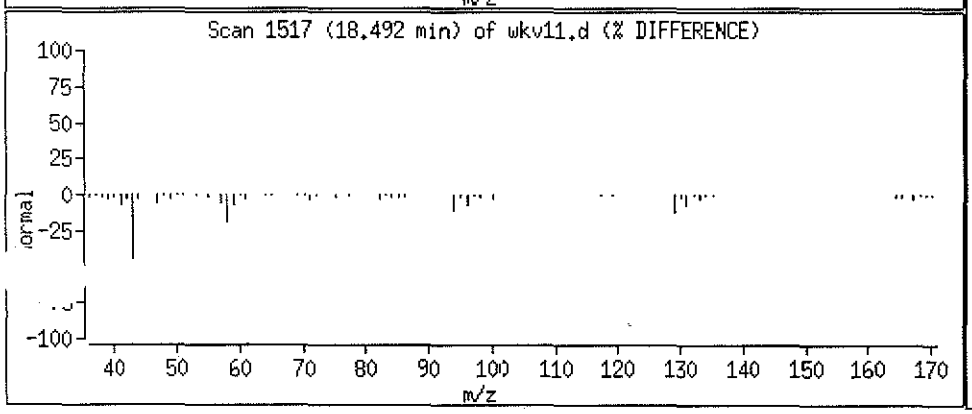
Column diameter: 2.00

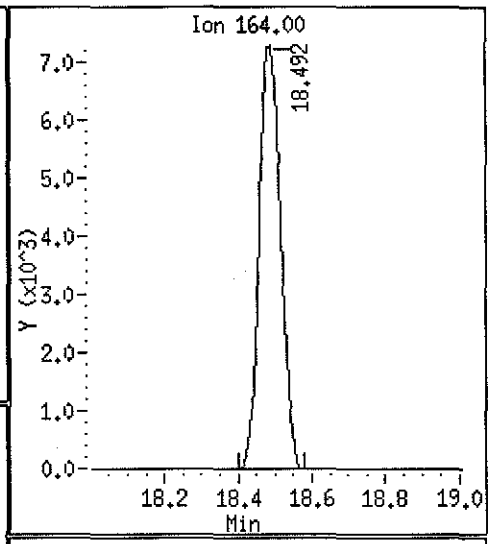
52 Tetrachloroethene

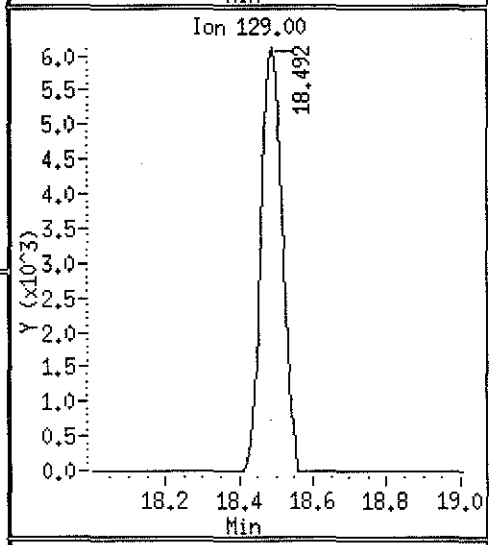


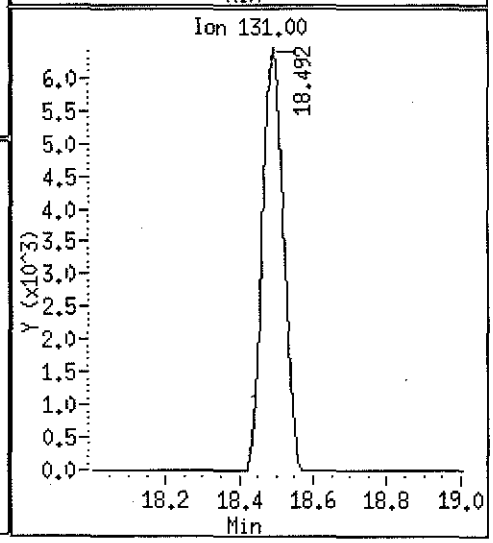












1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-GWS-DPDL

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-009 DL

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BWKV20

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. _____

Date Analyzed: 04/21/95

Column: (pack/cap) PACK

Dilution Factor: 10.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	300	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	NA	
107-06-2	1,2-Dichloroethane	NA	
78-93-3	2-Butanone	NA	
71-55-6	1,1,1-Trichloroethane		E
56-23-5	Carbon Tetrachloride	NA	
108-05-4	Vinyl acetate	NA	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	NA	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
10061-02-6	trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	NA	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-GWS-DPDL

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-009 DL

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BWKV20

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. _____

Date Analyzed: 04/21/95

Column: (pack/cap) PACK

Dilution Factor: 10.0

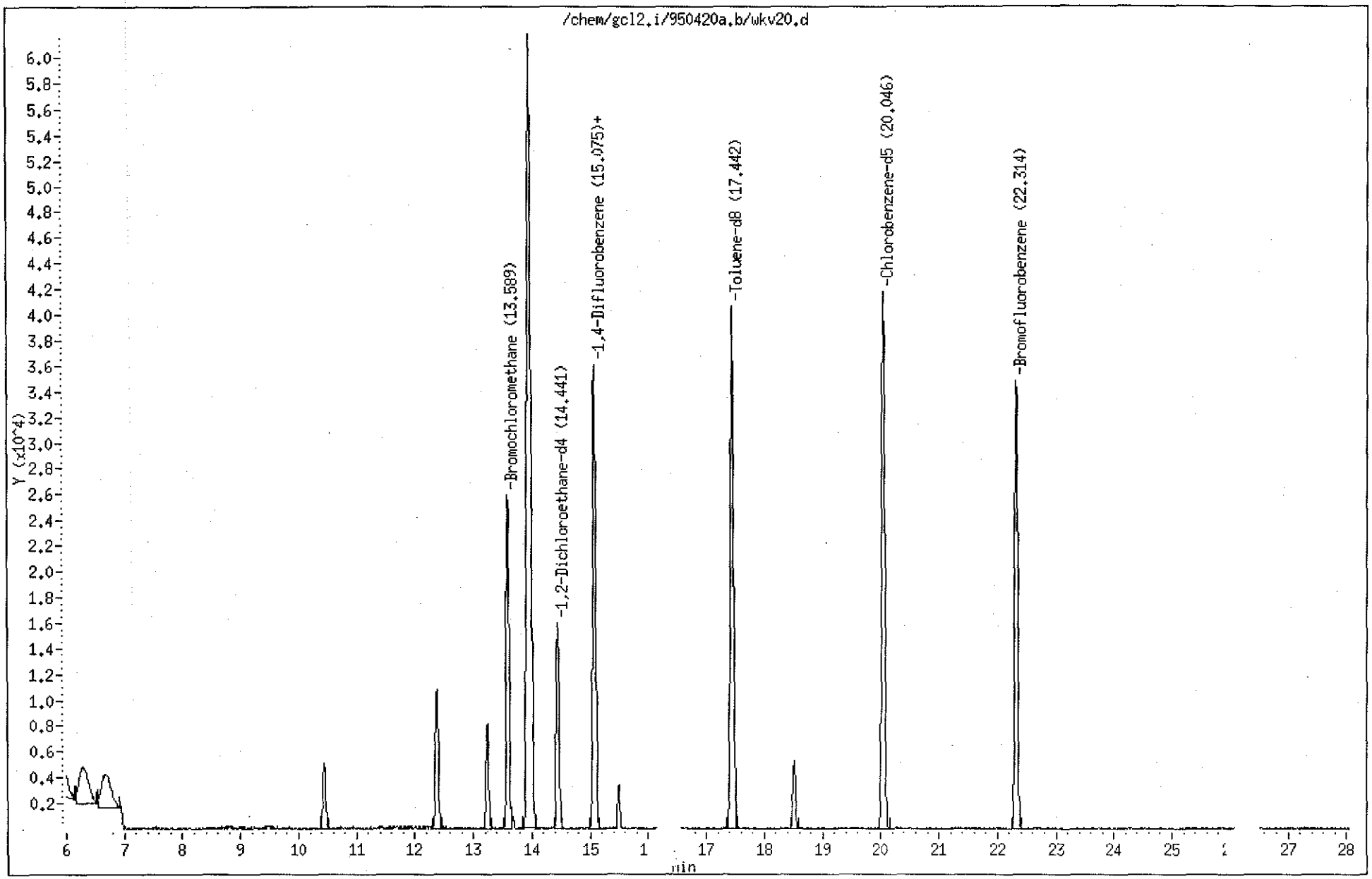
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
107-02-8	Acrolein	NA	
107-13-1	Acrylonitrile	NA	
75-69-4	Trichlorofluoromethane	NA	
75-71-8	Dichlorodifluoromethane	NA	
75-05-8	Acetonitrile	NA	
74-88-4	Iodomethane	NA	
107-12-0	Propionitrile (Ethyl Cyanide)	NA	
107-05-1	3-Chloropropene	NA	
126-98-7	Methacrylonitrile	NA	
74-95-3	Dibromomethane	NA	
78-83-1	Isobutyl alcohol	NA	
106-93-4	1,2-Dibromoethane	NA	
630-20-6	1,1,1,2-Tetrachloroethane	NA	
96-18-4	1,2,3-Trichloropropane	NA	
110-57-6	trans-1,4-Dichloro-2-butene	NA	
96-12-8	1,2-Dibromo-3-chloropropane	NA	
126-99-8	2-Chloro-1,3-Butadiene	NA	
80-62-6	Methylmethacrylate	NA	
97-63-2	Ethylmethacrylate	NA	
76-01-7	Pentachloroethane	NA	

FORM 1 V-2 12/88 Rev.

Data File: /chem/gcl2.i/950420a.b/wkv20.d
Date : 21-APR-1995 02:03
Client ID:
Sample Info: 9504G211-009 BXC420
Purge Volume: 5.0
Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950420a.b/wkv20.d
Lab Smp Id:
Inj Date : 21-APR-1995 02:03
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 9504G211-009 BXC420
Misc Info : GCL#2,DIL=10,500ULSMP+5ULIS,SS
Comment :
Method : /chem/gcl2.i/950420a.b/8240w2.m
Meth Date : 20-Apr-1995 21:32 petruszj Quant Type: ISTD
Cal Date : 20-APR-1995 20:38 Cal File: yb420.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * 1

Name	Value	Description
Uf	1.000	ng unit correction factor

mk

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
11 1,1-Dichloroethene	96.00	10.439	10.473	(0.768)	3734	15.58	15.58
19 1,1-Dichloroethane	63.00	12.380	12.415	(0.911)	21838	30.46	30.46
21 1,2-Dichloroethene (total)	96.00	13.232	13.267	(0.974)	6371	20.83	20.83
22 cis-1,2-Dichloroethene	96.00	13.232	13.267	(0.974)	6371	16.04	16.04
* 27 Bromochloromethane	127.80	13.589	13.624	(1.000)	10546 ✓	50.00	
29 1,1,1-Trichloroethane	97.00	13.955	13.990	(0.926)	88396	210.9 E	210.9
30 Carbon Tetrachloride	116.80	13.955	14.228	(0.926)	13158	34.71	34.71
$ 33 1,2-Dichloroethane-d4	65.00	14.441	14.476	(1.063)	17326	53.33 ✓	53.33
* 36 1,4-Difluorobenzene	114.00	15.075	15.100	(1.000)	53763 ✓	50.00	
38 Trichloroethene	130.00	15.491	15.517	(1.028)	2458	5.41	5.41
$ 46 Toluene-d8	98.00	17.442	17.460	(0.870)	51766	48.39 ✓	48.39
52 Tetrachloroethene	164.00	18.511	18.522	(0.923)	2929	7.75	7.75
* 56 Chlorobenzene-d5	117.00	20.046	20.049	(1.000)	48505 ✓	50.00	
$ 64 Bromofluorobenzene	95.00	22.314	22.311	(1.113)	28794	46.30 ✓	46.30

Data File: /chem/gcl2.i/950420a.b/bwkv20.d

Date : 21-APR-1995 02:03

ient ID:

Instrument: gcl2.i

Sample Info: 9504G211-009 BXC420

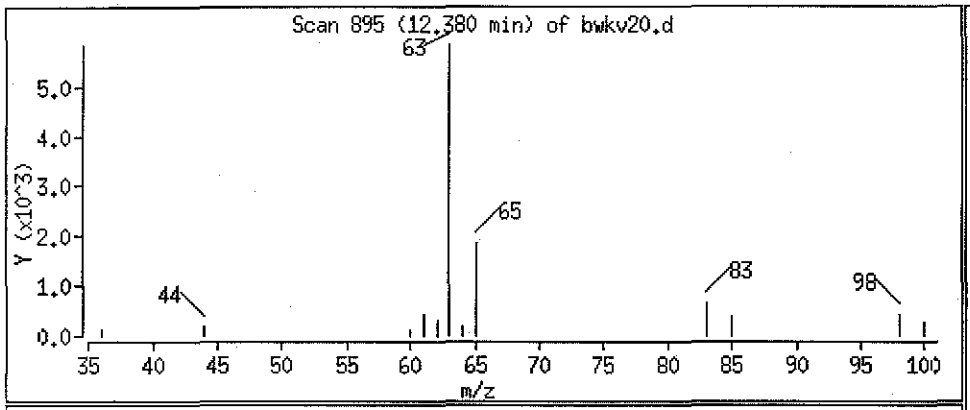
Purge Volume: 5.0

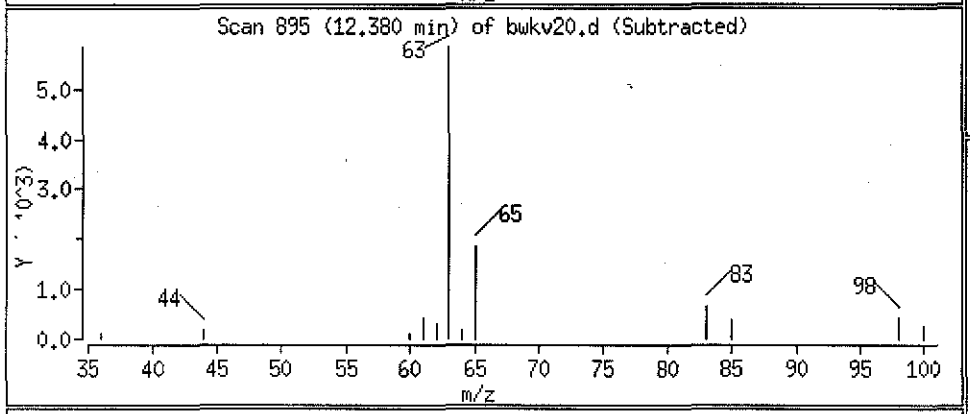
Operator: MANAGER MS

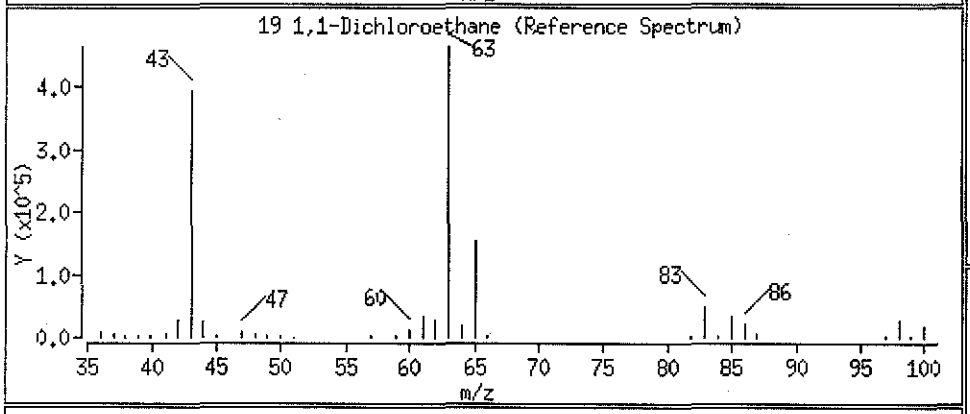
Column phase:

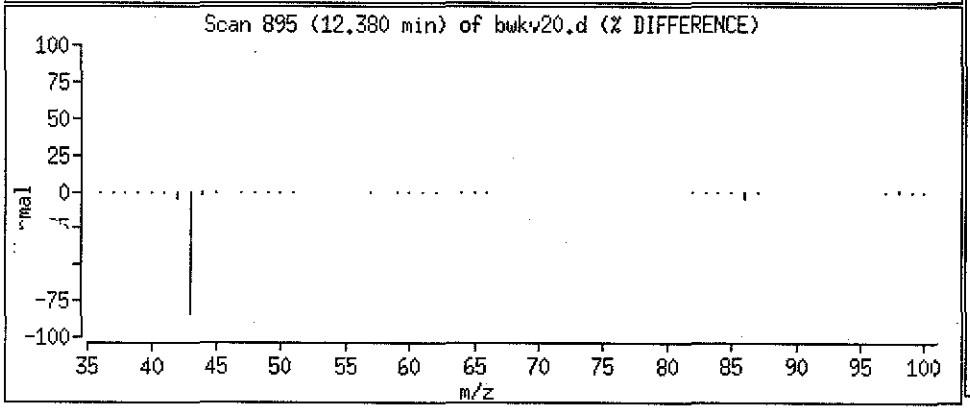
Column diameter: 2.00

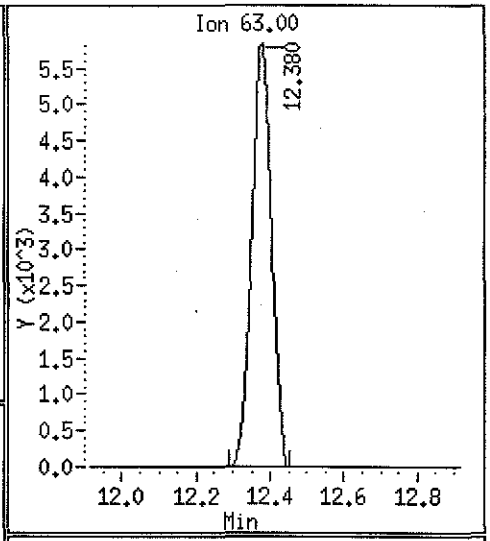
19 1,1-Dichloroethane

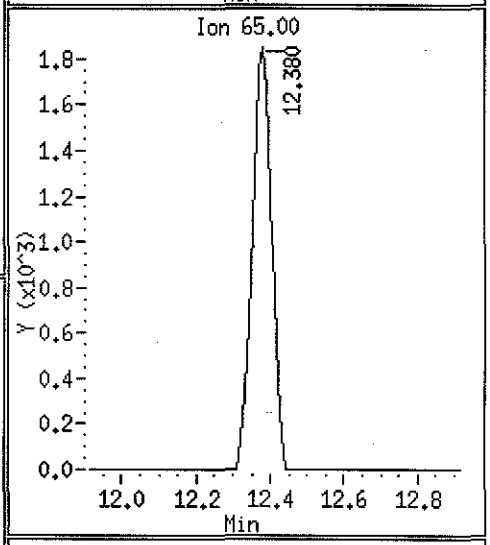


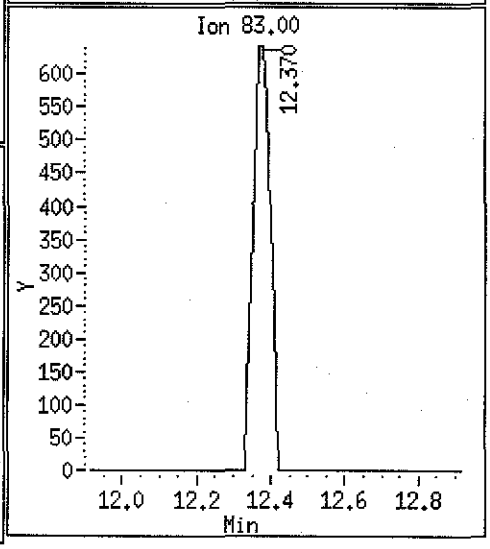












Data File: /chem/gcl2.i/950420a.b/wkv20.d

Date : 21-APR-1995 02:03

ient ID:

Instrument: gcl2.i

Sample Info: 9504G211-009 BXC420

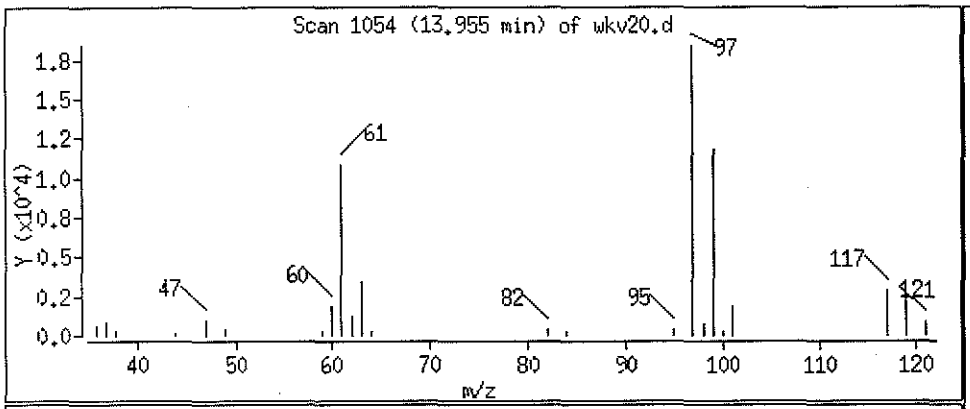
Purge Volume: 5.0

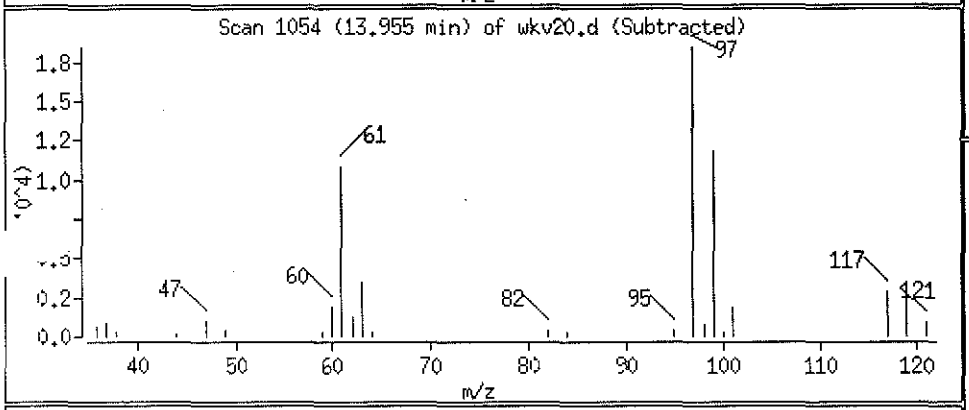
Operator: MANAGER MS

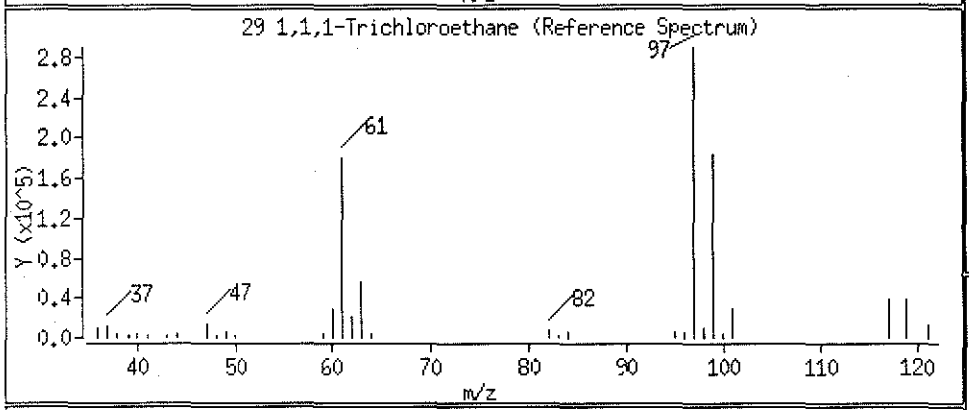
Column phase:

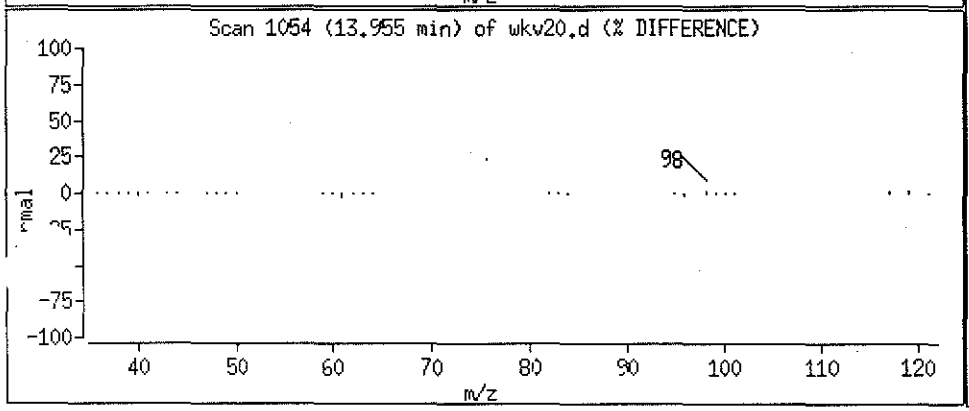
Column diameter: 2.00

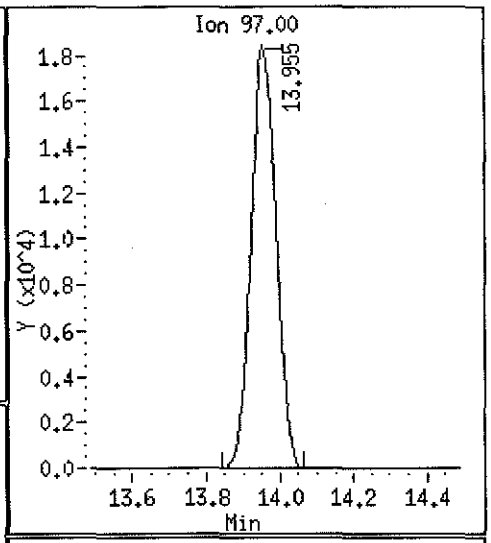
29 1,1,1-Trichloroethane

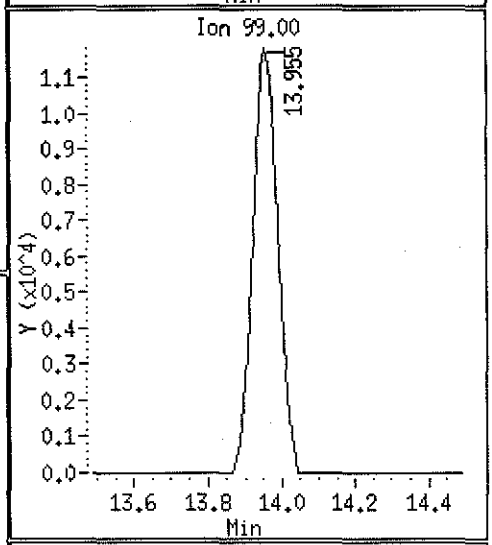


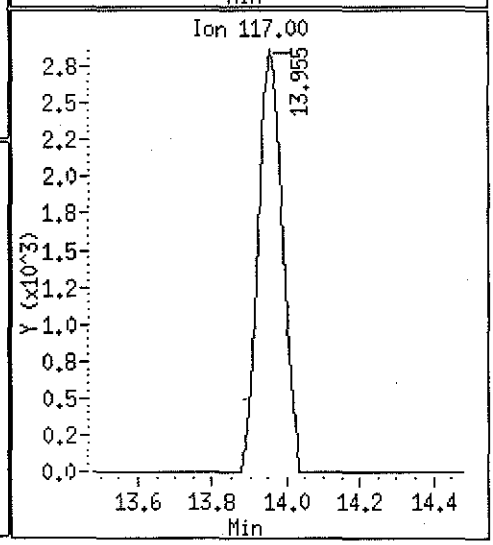












1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-GWS-DPDL

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-009 DL

Sample wt/vol: 5 (g/mL) ML

Lab File ID: EWKV22

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. _____

Date Analyzed: 04/22/95

Column: (pack/cap) CAP

Dilution Factor: 25.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
74-87-3	Chloromethane	NA	
74-83-9	Bromomethane	NA	
75-01-4	Vinyl chloride	NA	
75-00-3	Chloroethane	NA	
75-09-2	Methylene Chloride	NA	
67-64-1	Acetone	NA	
75-15-0	Carbon Disulfide	NA	
75-35-4	1,1-Dichloroethene	NA	
75-34-3	1,1-Dichloroethane	NA	
540-59-0	1,2-Dichloroethene (total)	NA	
67-66-3	Chloroform	NA	
107-06-2	1,2-Dichloroethane	NA	
78-93-3	2-Butanone	NA	
71-55-6	1,1,1-Trichloroethane	2300	
56-23-5	Carbon Tetrachloride	NA	
108-05-4	Vinyl acetate	NA	
75-27-4	Bromodichloromethane	NA	
78-87-5	1,2-Dichloropropane	NA	
10061-01-5	cis-1,3-Dichloropropene	NA	
79-01-6	Trichloroethene	NA	
124-48-1	Dibromochloromethane	NA	
79-00-5	1,1,2-Trichloroethane	NA	
71-43-2	Benzene	NA	
10061-02-6	trans-1,3-Dichloropropene	NA	
75-25-2	Bromoform	NA	
108-10-1	4-Methyl-2-pentanone	NA	
591-78-6	2-Hexanone	NA	
127-18-4	Tetrachloroethene	NA	
79-34-5	1,1,2,2-Tetrachloroethane	NA	
108-88-3	Toluene	NA	
108-90-7	Chlorobenzene	NA	
100-41-4	Ethylbenzene	NA	
100-42-5	Styrene	NA	
1330-20-7	Xylene (total)	NA	

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-GWS-DPDL

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-009 DL

Sample wt/vol: 5 (g/mL) ML

Lab File ID: EWKV22

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. _____

Date Analyzed: 04/22/95

Column: (pack/cap) CAP

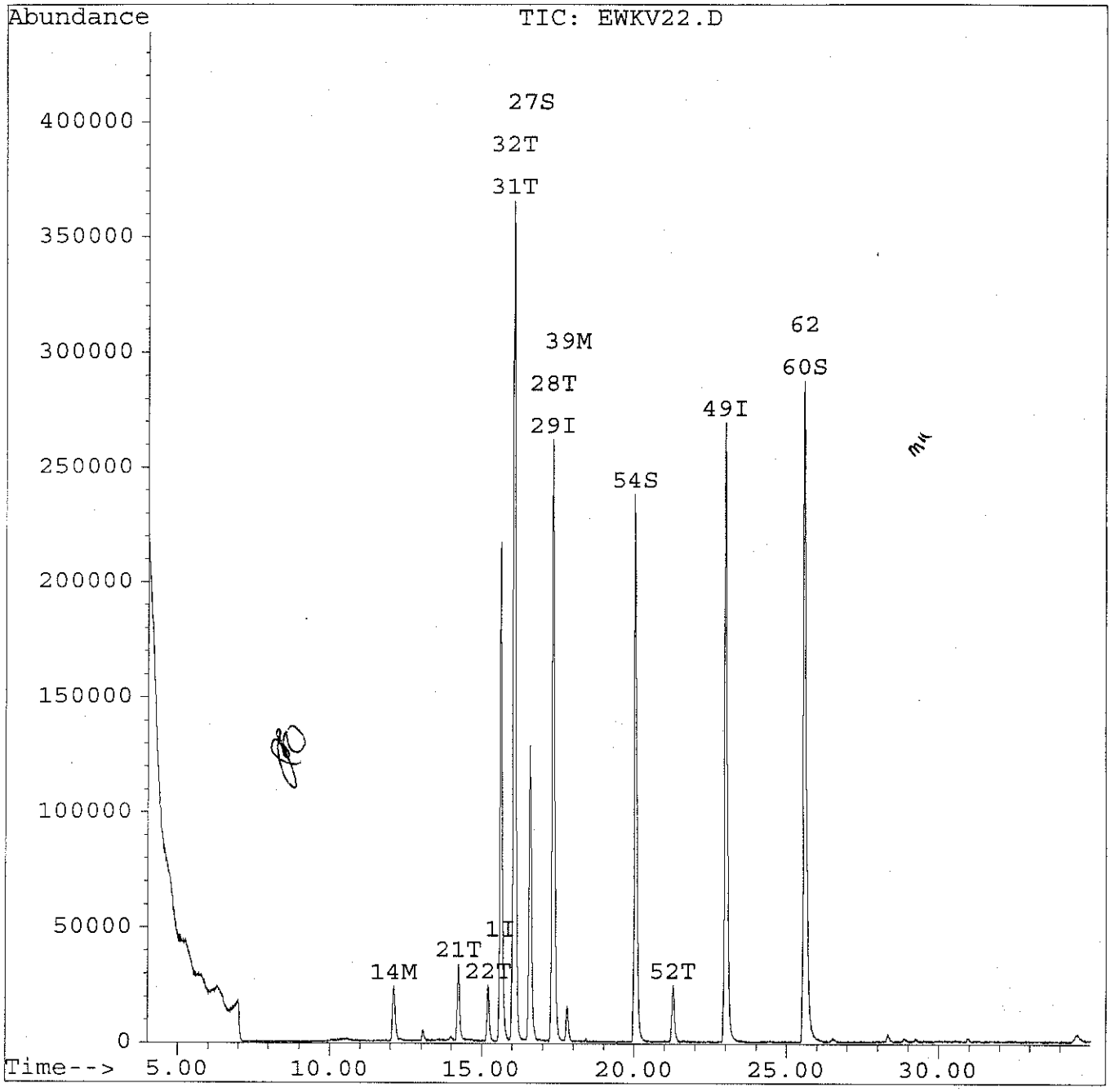
Dilution Factor: 25.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
107-02-8	Acrolein	NA	
107-13-1	Acrylonitrile	NA	
75-69-4	Trichlorofluoromethane	NA	
75-71-8	Dichlorodifluoromethane	NA	
75-05-8	Acetonitrile	NA	
74-88-4	Iodomethane	NA	
107-12-0	Propionitrile (Ethyl Cyanide)	NA	
107-05-1	3-Chloropropene	NA	
126-98-7	Methacrylonitrile	NA	
74-95-3	Dibromomethane	NA	
78-83-1	Isobutyl alcohol	NA	
106-93-4	1,2-Dibromoethane	NA	
630-20-6	1,1,1,2-Tetrachloroethane	NA	
96-18-4	1,2,3-Trichloropropane	NA	
110-57-6	trans-1,4-Dichloro-2-butene	NA	
96-12-8	1,2-Dibromo-3-chloropropane	NA	
126-99-8	2-Chloro-1,3-Butadiene	NA	
80-62-6	Methylmethacrylate	NA	
97-63-2	Ethylmethacrylate	NA	
76-01-7	Pentachloroethane	NA	

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2195A\EWKV22.D Vial: 11
Acq On : 22 Apr 95 3:30 am Operator:
Sample : 9504G211-009 EAB421 Inst : gcms5
Misc : GCL#5,DIL=25,200UL SMP+5ULIS,SS +5MLOFW Multiplr: 1.00
Quant Time: Apr 22 4:06 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Apr 21 23:37:58 1995
Response via : Single Level Calibration



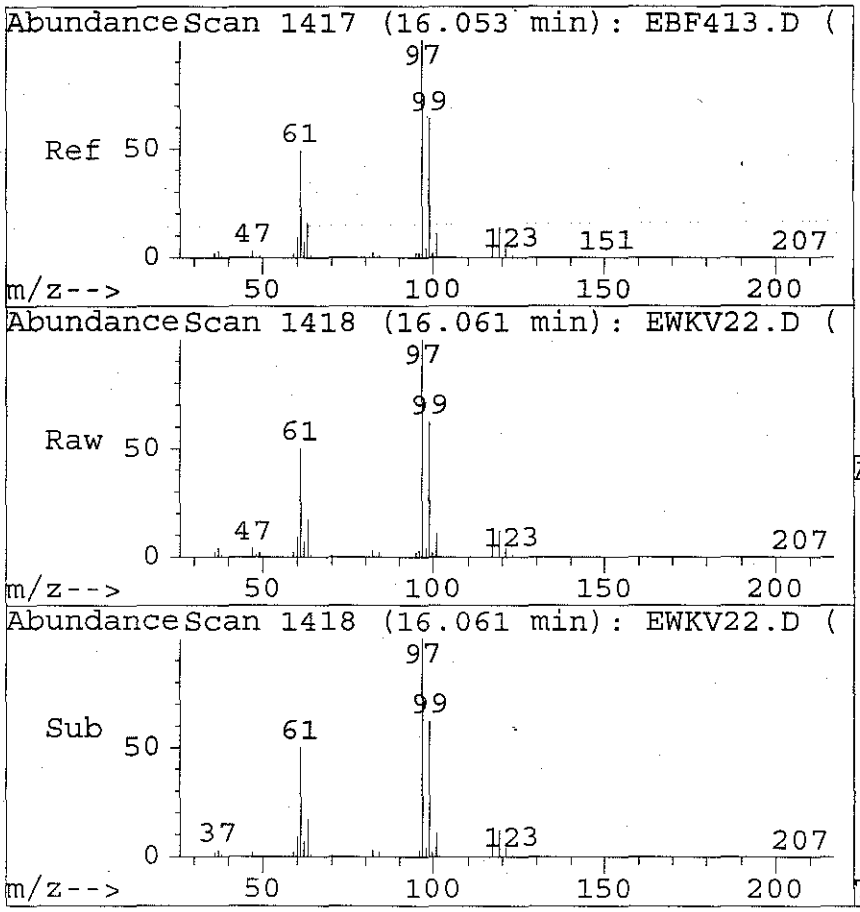
Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2195A\EWKV22.D Vial: 11
Acq On : 22 Apr 95 3:30 am Operator:
Sample : 9504G211-009 EAB421 Inst : gcms5
Misc : GCL#5,DIL=25,200UL SMP+5ULIS,SS +5MLOFW Multiplr: 1.00
Quant Time: Apr 22 4:06 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Apr 21 23:37:58 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	15.62	128	160691	50.00	ug/l		-0.02
29) 1,4-Difluorobenzene	17.32	114	574405	50.00	ug/l		0.00
49) Chlorobenzene-d5	22.98	117	474643	50.00	ug/l		-0.02
70) bromochloromethane	15.62	128	160691	0.00	ug/l		-0.01
System Monitoring Compounds							%Recovery
27) 1,2-Dichloroethane-d4	16.59	65	257699	46.22	ug/l		92.44%
54) Toluene-d8	20.03	98	473726	47.68	ug/l		95.36%
60) Bromofluorobenzene	25.59	95	366218	46.58	ug/l		93.17%
Target Compounds							Qvalue
14) 1,1-Dichloroethene	12.11	96	28527	7.76	ug/l	#	78
21) 1,1-Dichloroethane	14.24	63	80462	11.31	ug/l		98
23) 1,2-Dichloroethene (total)	15.22	96	27130	6.35	ug/l		98
28) 1,2-Dichloroethane	17.33	62	21076	3.30	ug/l	#	10
31) 1,1,1-Trichloroethane ☐SPEC?	16.06	97	700553	90.81	ug/l		99
32) Carbon Tetrachloride	16.07	117	89577	11.35	ug/l		96
39) Trichloroethene	17.79	130	6392	1.13	ug/l	#	1
52) Tetrachloroethene	21.27	164	17038	3.11	ug/l		95
62) 1,2,3-Trichloropropane	25.59	75	199178	30.79	ug/l	#	51

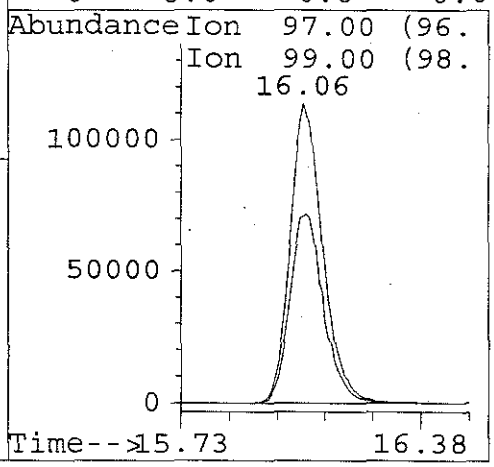
(#) = qualifier out of range (m) = manual integration



#31
1,1,1-Trichloroethane
Concen: 90.81 ug/l
RT: 16.06 min Scan# 1418
Delta R.T. -0.02 min
Lab File: EWKV22.D
Acq: 22 Apr 95 3:30 am

Tgt Ion:97 Resp: 700553

Ion	Ratio	Lower	Upper
97	100		
99	65.3	44.8	84.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0



1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-SBS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL Lab Sample ID: 9504G211-011

Sample wt/vol: 5.0 (g/mL) G Lab File ID: FWKV01

Level: (low/med) LOW Date Received: 04/10/95

% Moisture: not dec. 13 Date Analyzed: 04/20/95

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	6	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	2	J
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	1	J
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-SBS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL

Lab Sample ID: 9504G211-011

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: FWKV01

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. 13

Date Analyzed: 04/20/95

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		
107-02-8	Acrolein	580	U
107-13-1	Acrylonitrile	120	U
75-69-4	Trichlorofluoromethane	12	U
75-71-8	Dichlorodifluoromethane	23	U
75-05-8	Acetonitrile	120	U
74-88-4	Iodomethane	12	U
107-12-0	Propionitrile (Ethyl Cyanide)	58	U
107-05-1	3-Chloropropene	23	U
126-98-7	Methacrylonitrile	23	U
74-95-3	Dibromomethane	12	U
78-83-1	Isobutyl alcohol	2300	U
106-93-4	1,2-Dibromoethane	23	U
630-20-6	1,1,1,2-Tetrachloroethane	12	U
96-18-4	1,2,3-Trichloropropane	12	U
110-57-6	trans-1,4-Dichloro-2-butene	23	U
96-12-8	1,2-Dibromo-3-chloropropane	23	U
126-99-8	2-Chloro-1,3-Butadiene	120	U
80-62-6	Methylmethacrylate	23	U
97-63-2	Ethylmethacrylate	23	U
76-01-7	Pentachloroethane	23	U

FORM 1 V-2 12/88 Rev.

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TC2-BG06-SBS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL

Lab Sample ID: 9504G211-011

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: FWKV01

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. 13

Date Analyzed: 04/20/95

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

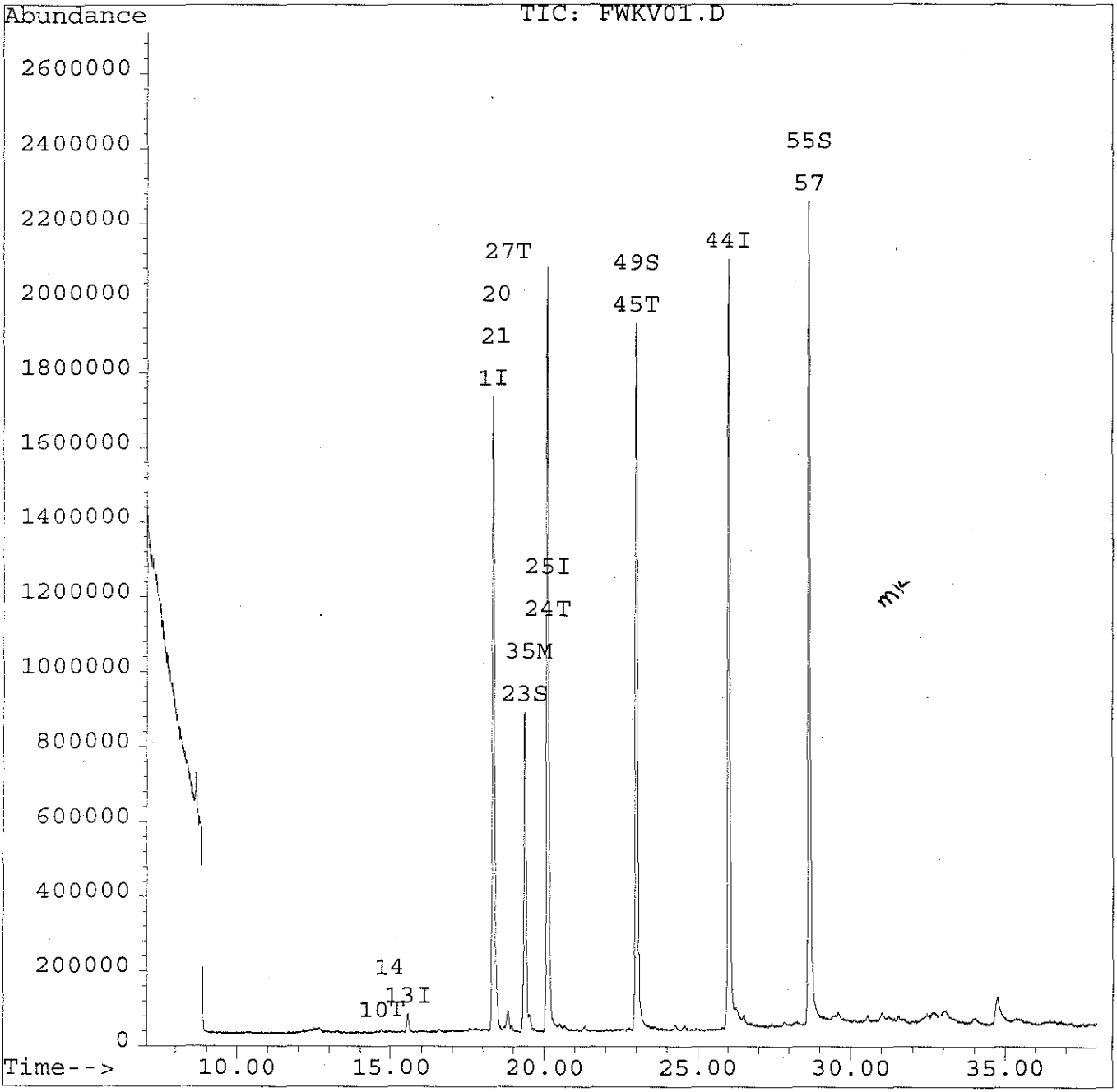
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR1995A\FWKV01.D Vial: 10
Acq On : 20 Apr 95 6:23 am Operator:
Sample : 9504G211-011 FNB419 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS+5G SMP Multiplr: 1.00
Quant Time: Apr 20 7:02 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 19 22:10:43 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR1995A\FWKV01.D Vial: 10
Acq On : 20 Apr 95 6:23 am Operator:
Sample : 9504G211-011 FNB419 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS+5G SMP Multiplr: 1.00
Quant Time: Apr 20 8:32 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 19 22:10:43 1995
Response via : Single Level Calibration

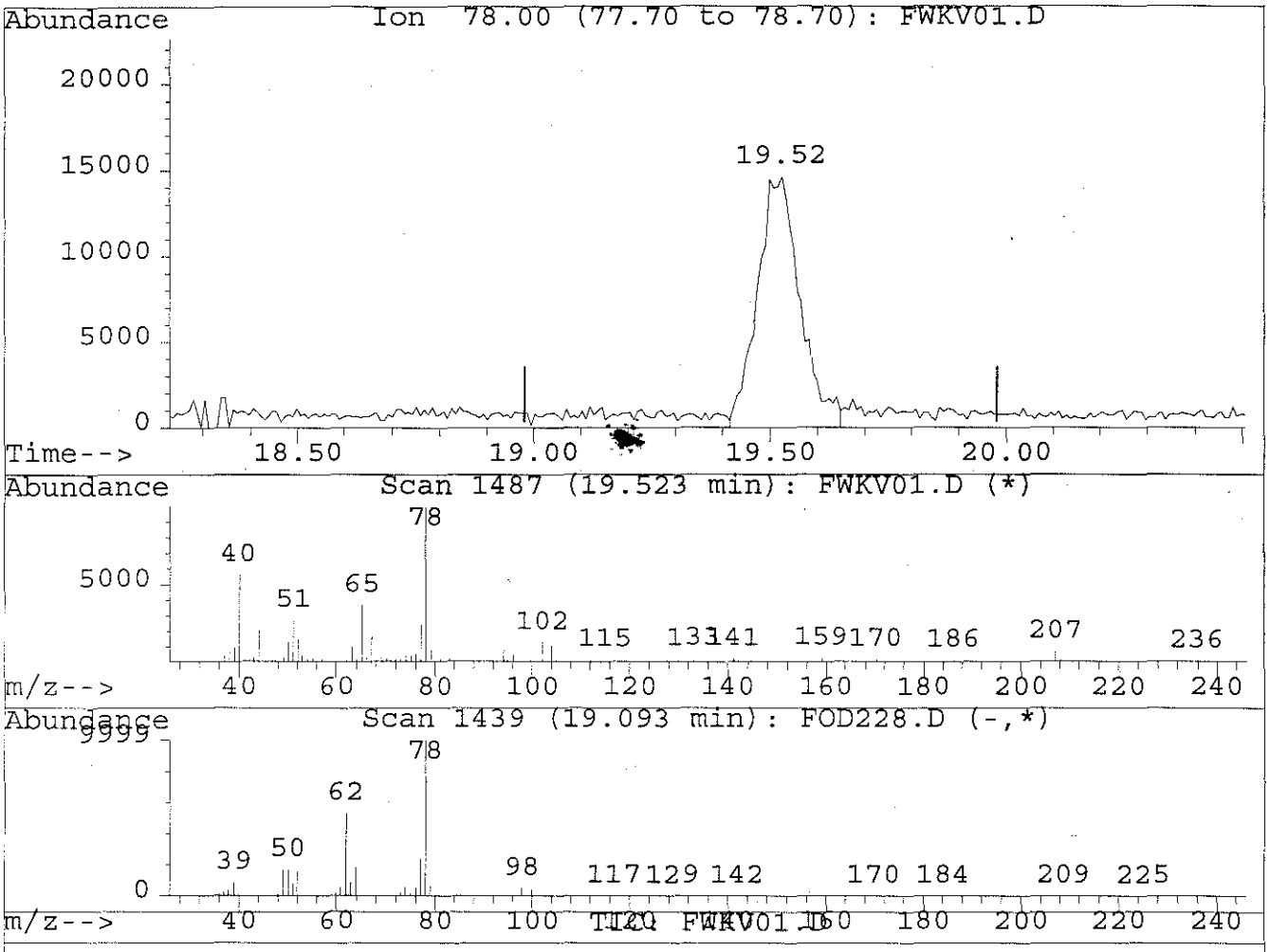
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	18.33	128	1118077	50.00	ug/l		0.00
25) 1,4-Difluorobenzene	20.09	114	4267480	50.00	ug/l		0.00
44) Chlorobenzene-d5	26.00	117	3414237	50.00	ug/l		-0.02
System Monitoring Compounds							%Recovery
23) 1,2-Dichloroethane-d4	19.35	65	1433957	52.84	ug/l		105.69%
49) Toluene-d8	22.98	98	3553488	51.21	ug/l		102.43%
55) Bromofluorobenzene	28.64	95	2804621	48.92	ug/l		97.84%
Target Compounds							Qvalue
10) Acetone	14.72	43	35256	6.77	ug/l	#	47
13) Methylene Chloride	15.56	84	54938	1.34	ug/l		90
14) 3-Chloropropene	14.96	76	12040	0.91	ug/l	#	1
20) Methacrylonitrile	18.44	41	37104	4.88	ug/l	#	25
21) 2-Butanone	18.43	43	10031	1.51	ug/l	#	1
24) 1,2-Dichloroethane	20.09	62	125482	3.70	ug/l	#	1
30) 1,1,1-Trichloroethane	18.81	97	94501	1.80	ug/l	#	48
35) Benzene	19.52	78	91219	1.28	ug/l	m	100
45) 4-Methyl-2-Pentanone	22.97	43	8597	0.62	ug/l	#	1
57) 1,2,3-Trichloropropane	28.63	75	1213777	32.09	ug/l	#	51

(#) = qualifier out of range (m) = manual integration
FWKV01.D 8240S6.M Thu Apr 20 08:33:28 1995 Page 1

Quantitation Report

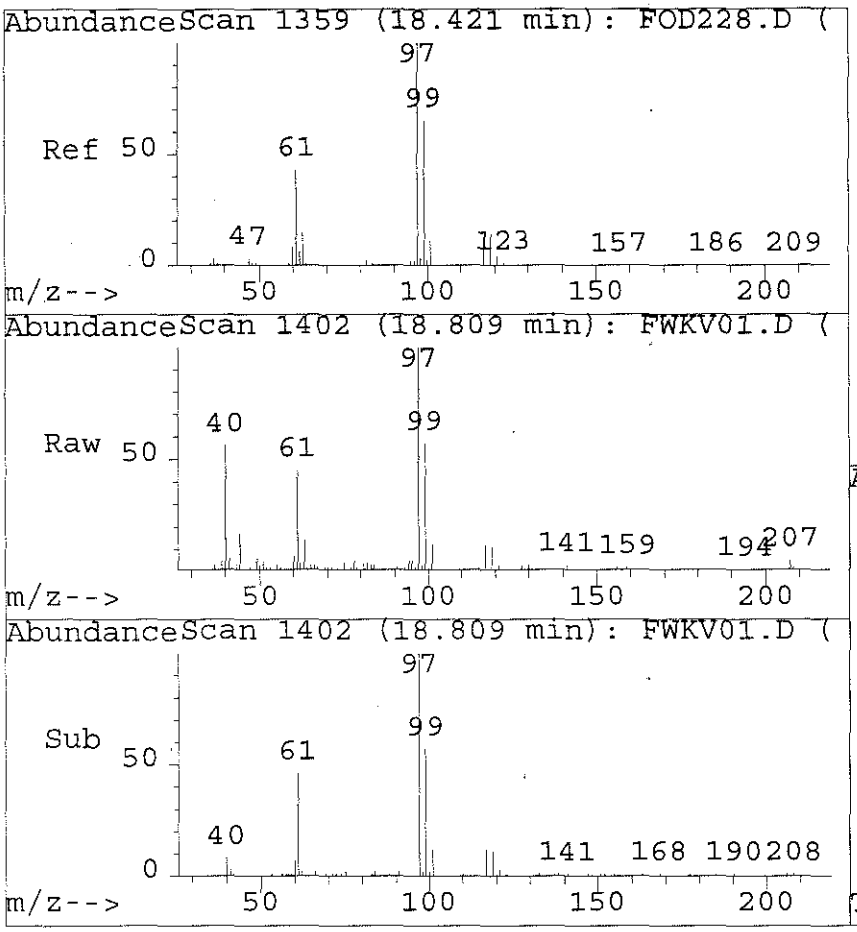
Data File : C:\HPCHEM\1\DATA\APR1995A\FWKV01.D Vial: 10
Acq On : 20 Apr 95 6:23 am Operator:
Sample : 9504G211-011 FNB419 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS+5G SMP Multiplr: 1.00
Quant Time: Apr 20 8:32 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 19 22:10:43 1995
Response via : Single Level Calibration



(35) Benzene (M)
19.52min 1.28ug/l m
response 91219

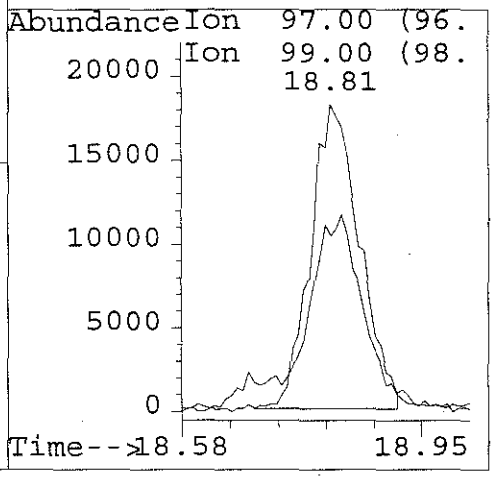
Ion	Exp%	Act%
78.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

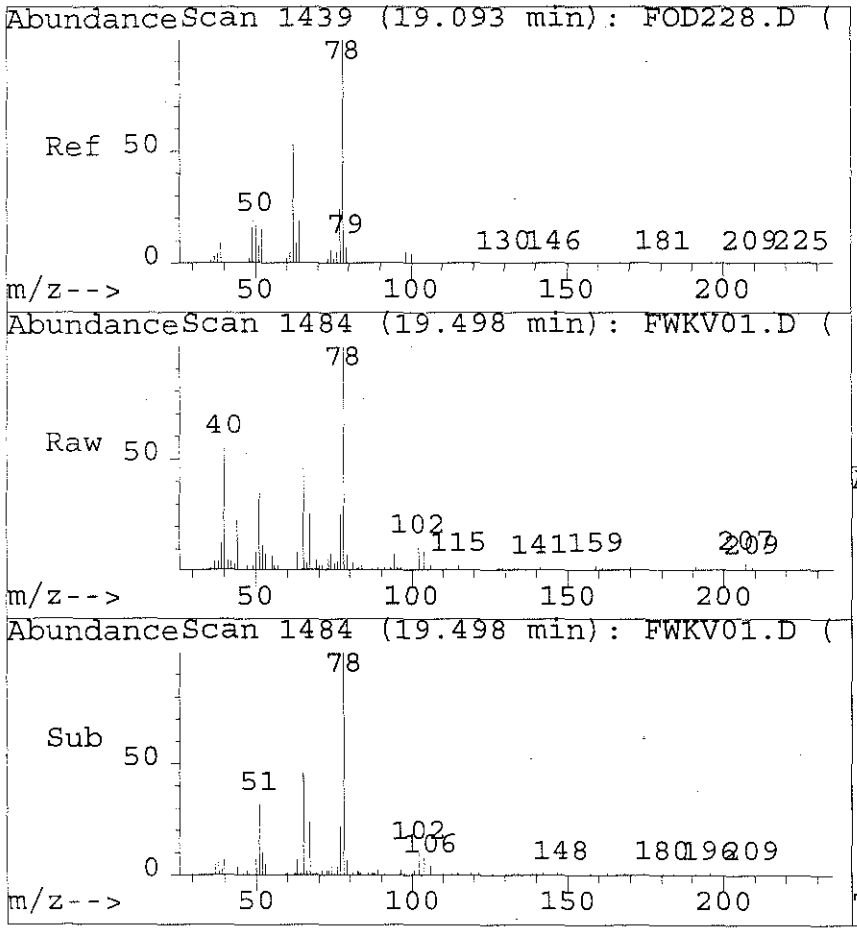


#27
1,1,1-Trichloroethane
Concen: 1.80 ug/l
RT: 18.81 min Scan# 1402
Delta R.T. 0.00 min
Lab File: FWKV01.D
Acq: 20 Apr 95 6:23 am

Tgt Ion:97 Resp: 94501

Ion	Ratio	Lower	Upper
97	100		
99	23.1	43.9	83.9#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

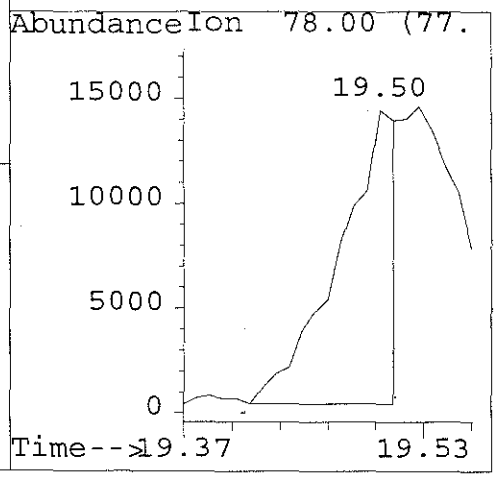




#35
Benzene
Concen: 0.51 ug/l
RT: 19.50 min Scan# 1484
Delta R.T. 0.02 min
Lab File: FWKV01.D
Acq: 20 Apr 95 6:23 am

Tgt Ion:78 Resp: 36258

Ion	Ratio	Lower	Upper
78	100		
0	0.0	0.0	0.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0



1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-SBD

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL Lab Sample ID: 9504G211-012

Sample wt/vol: 5.0 (g/mL) G Lab File ID: FWKV23

Level: (low/med) LOW Date Received: 04/10/95

% Moisture: not dec. 14 Date Analyzed: 04/23/95

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	6	U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	1	J
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl acetate	12	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	2	J
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-SBD

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL

Lab Sample ID: 9504G211-012

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: FWKV23

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. 14

Date Analyzed: 04/23/95

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		
107-02-8	Acrolein	580	U
107-13-1	Acrylonitrile	120	U
75-69-4	Trichlorofluoromethane	12	U
75-71-8	Dichlorodifluoromethane	23	U
75-05-8	Acetonitrile	120	U
74-88-4	Iodomethane	12	U
107-12-0	Propionitrile (Ethyl Cyanide)	58	U
107-05-1	3-Chloropropene	23	U
126-98-7	Methacrylonitrile	23	U
74-95-3	Dibromomethane	12	U
78-83-1	Isobutyl alcohol	2300	U
106-93-4	1,2-Dibromoethane	23	U
630-20-6	1,1,1,2-Tetrachloroethane	12	U
96-18-4	1,2,3-Trichloropropane	12	U
110-57-6	trans-1,4-Dichloro-2-butene	23	U
96-12-8	1,2-Dibromo-3-chloropropane	23	U
126-99-8	2-Chloro-1,3-Butadiene	120	U
80-62-6	Methylmethacrylate	23	U
97-63-2	Ethylmethacrylate	23	U
76-01-7	Pentachloroethane	23	U

FORM 1 V-2 12/88 Rev.

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TC2-BG06-SBD

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL

Lab Sample ID: 9504G211-012

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: FWKV23

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. 14

Date Analyzed: 04/23/95

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

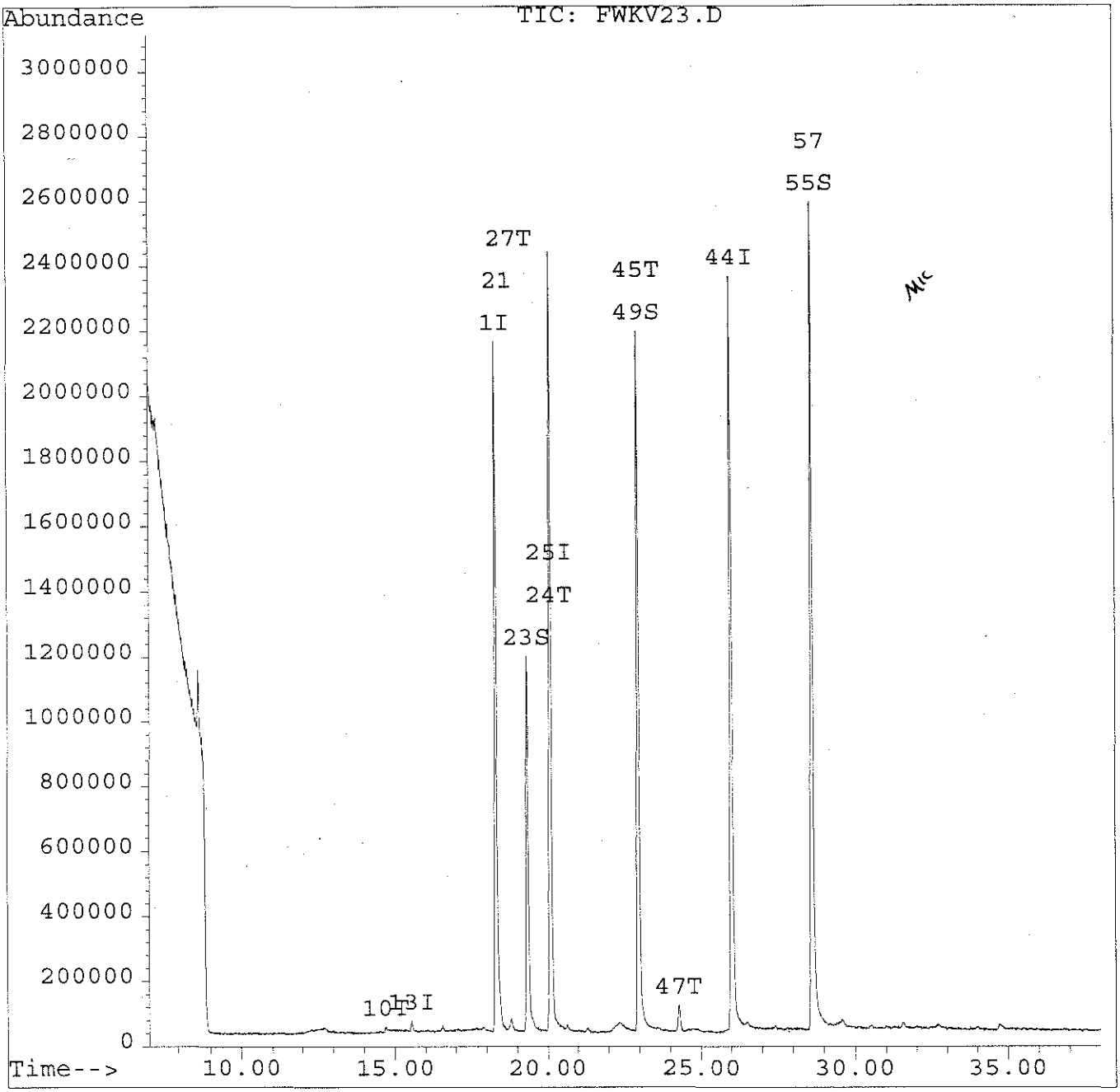
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2395\FWKV23.D
Acq On : 23 Apr 95 10:03 pm
Sample : 9504G211-012 FNA423
Misc : GCL#6,DIL=1,5GSMP+5MLOFW+5ULIS,SS
Quant Time: Apr 23 22:42 1995

Vial: 4
Operator:
Inst : inst #6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Apr 23 19:56:50 1995
Response via : Single Level Calibration



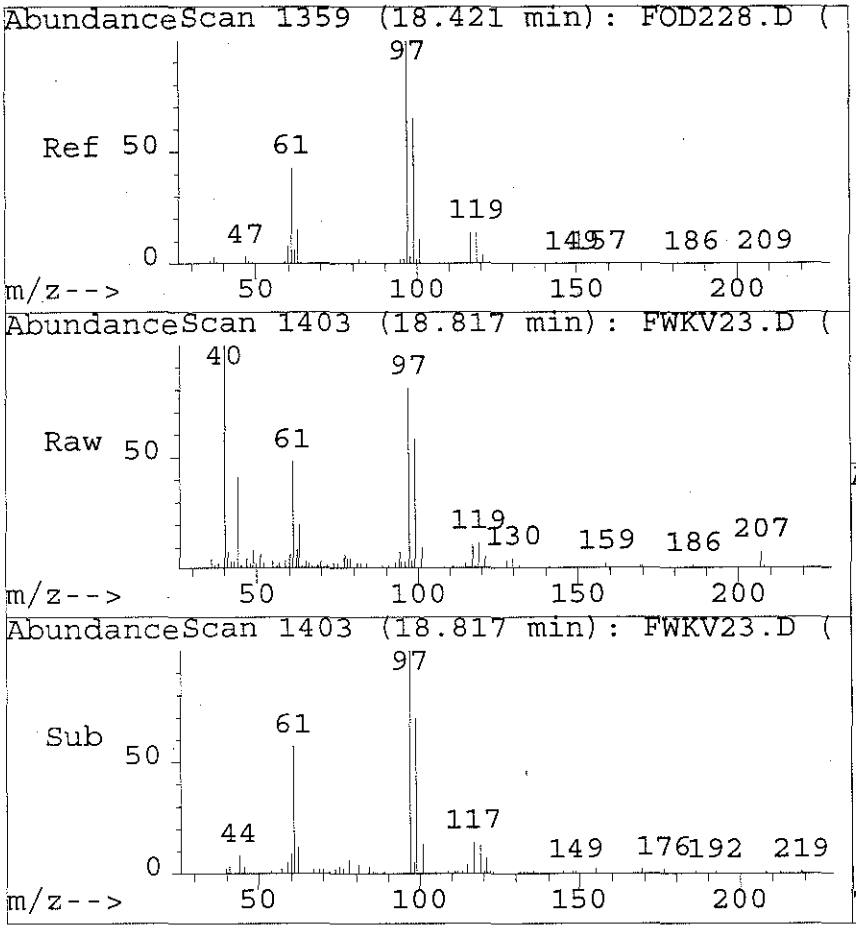
Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2395\FWKV23.D Vial: 4
Acq On : 23 Apr 95 10:03 pm Operator:
Sample : 9504G211-012 FNA423 Inst : inst #6
Misc : GCL#6,DIL=1,5GSMP+5MLOFW+5ULIS,SS Multiplr: 1.00
Quant Time: Apr 23 22:42 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Apr 23 19:56:50 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	18.32	128	1318766	50.00	ug/l		-0.03
25) 1,4-Difluorobenzene	20.09	114	4598278	50.00	ug/l		-0.03
44) Chlorobenzene-d5	26.02	117	3589494	50.00	ug/l		-0.03
System Monitoring Compounds							%Recovery
23) 1,2-Dichloroethane-d4	19.35	65	1946061	52.40	ug/l		104.79%
49) Toluene-d8	22.97	98	3666311	50.50	ug/l		101.00%
55) Bromofluorobenzene	28.63	95	2943912	47.26	ug/l		94.52%
Target Compounds							Qvalue
10) Acetone	14.70	43	48944	4.71	ug/l		72
18) Methylene Chloride	15.55	84	27686	0.68	ug/l	#	86
21) 2-Butanone	18.42	43	25098	1.56	ug/l	#	1
24) 1,2-Dichloroethane	20.09	62	166760	3.82	ug/l	#	1
27) 1,1,1-Trichloroethane	18.82	97	58378	1.04	ug/l	#	61
40) 4-Methyl-2-Pentanone	22.97	43	23181	0.68	ug/l	#	67
47) Tetrachloroethene	24.28	164	52541	1.36	ug/l	#	41
57) 1,2,3-Trichloropropane	28.64	75	1490707	23.88	ug/l	#	51

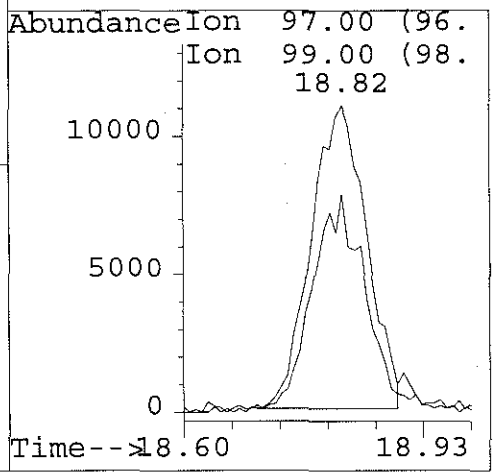
(#) = qualifier out of range (m) = manual integration

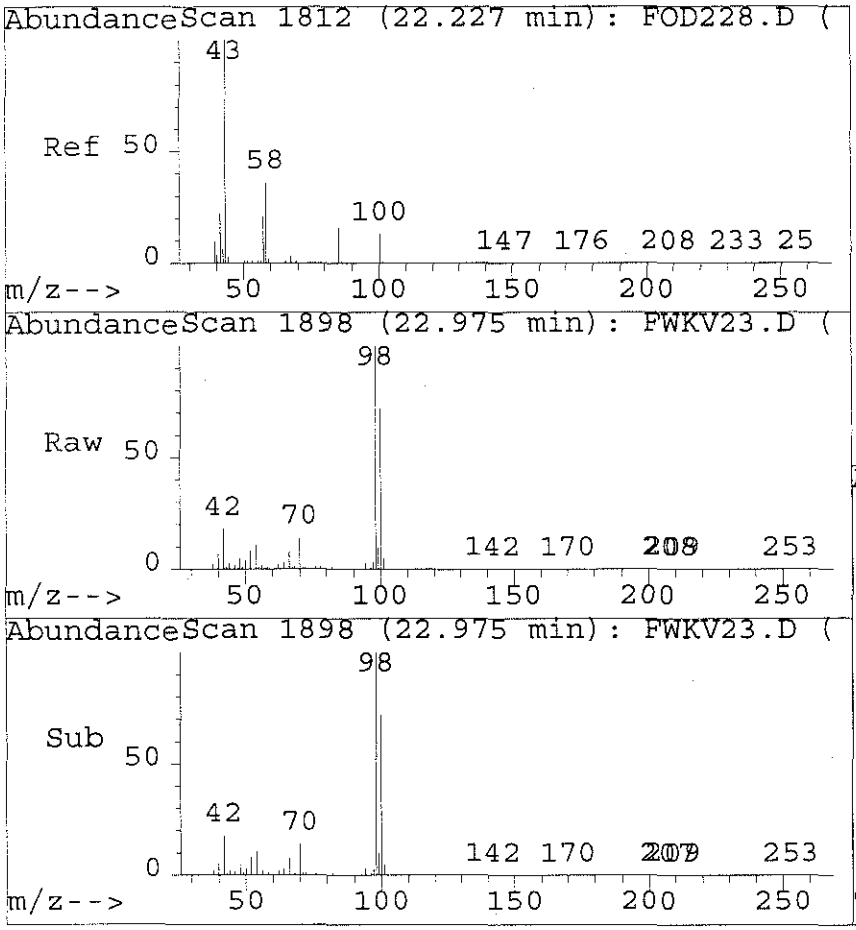


#27
1,1,1-Trichloroethane
Concen: 1.04 ug/l
RT: 18.82 min Scan# 1403
Delta R.T. -0.03 min
Lab File: FWKV23.D
Acq: 23 Apr 95 10:03 pm

Tgt Ion:97 Resp: 58378

Ion	Ratio	Lower	Upper
97	100		
99	33.2	43.9	83.9#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

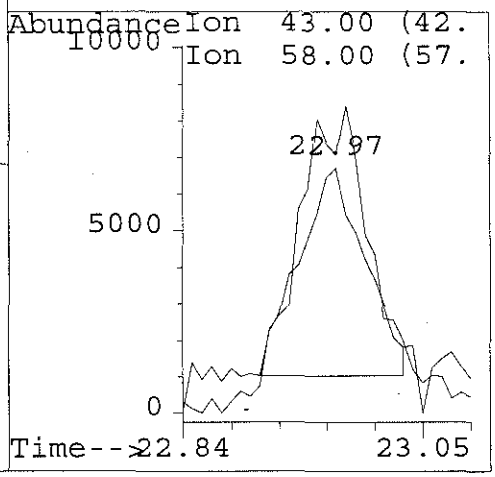


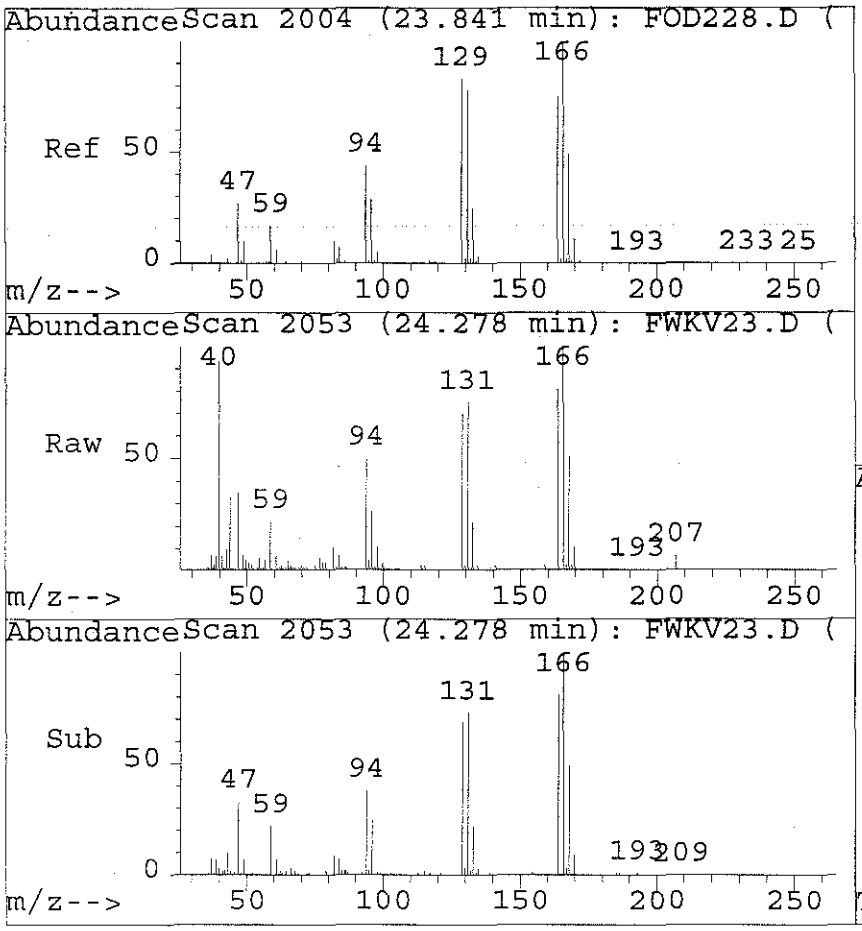


#45
4-Methyl-2-Pentanone
Concen: 0.68 ug/l
RT: 22.97 min Scan# 1898
Delta R.T. 0.31 min
Lab File: FWKV23.D
Acq: 23 Apr 95 10:03 pm

Tgt Ion:43 Resp: 23181

Ion	Ratio	Lower	Upper
43	100		
58	59.5	19.2	59.2#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

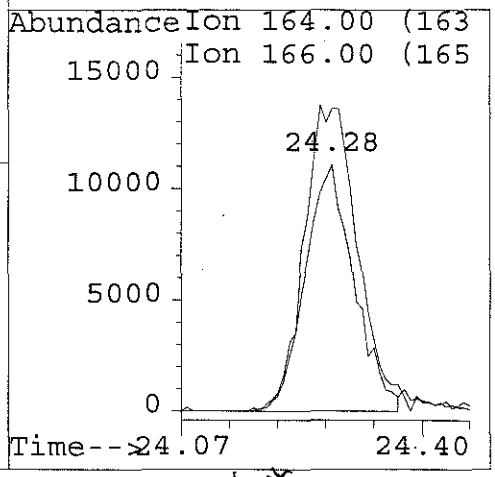


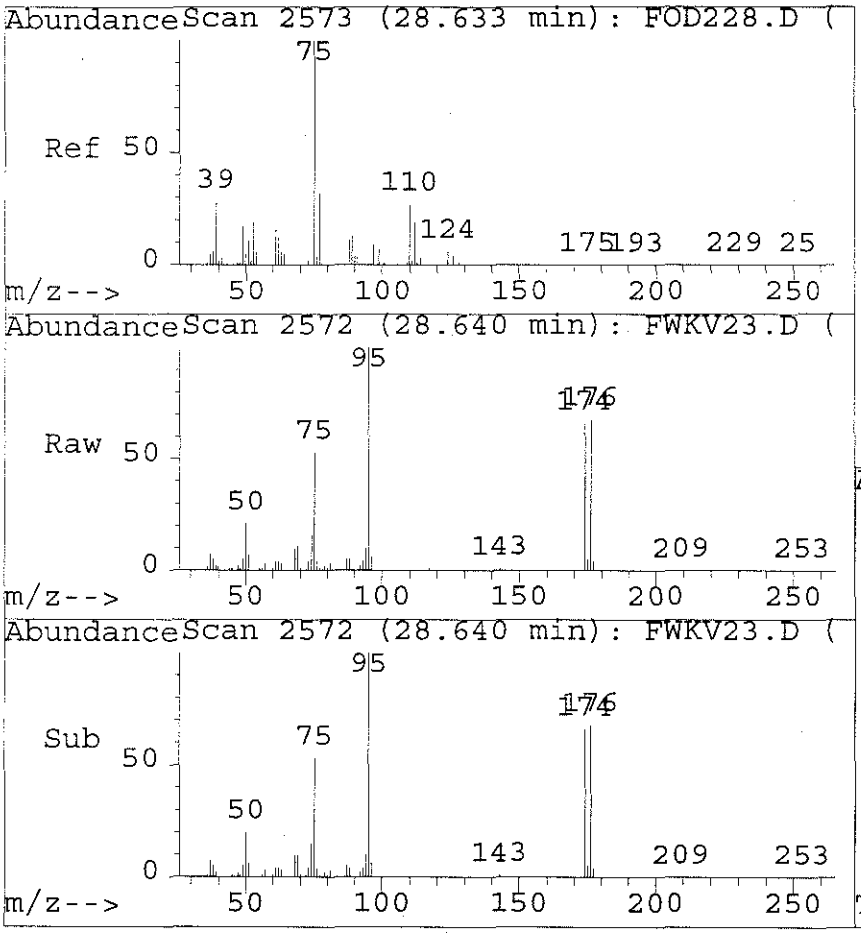


#47
Tetrachloroethene
Concen: 1.36 ug/l
RT: 24.28 min Scan# 2053
Delta R.T. -0.02 min
Lab File: FWKV23.D
Acq: 23 Apr 95 10:03 pm

Tgt Ion:164 Resp: 52541

Ion	Ratio	Lower	Upper
164	100		
166	61.4	111.1	151.1#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

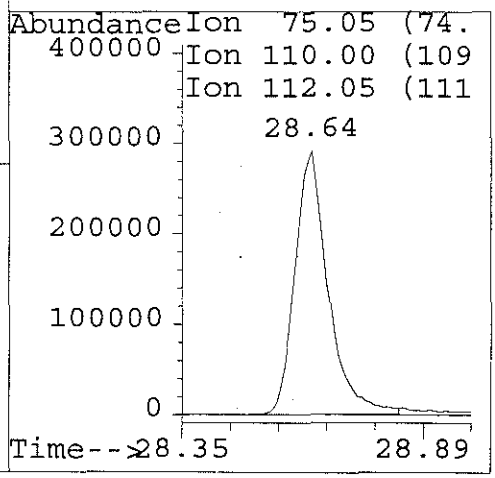




#57
1,2,3-Trichloropropane
Concen: 23.88 ug/l
RT: 28.64 min Scan# 2572
Delta R.T. -0.42 min
Lab File: FWKV23.D
Acq: 23 Apr 95 10:03 pm

Tgt Ion:75.05 Resp: 1490707

Ion	Ratio	Lower	Upper
75	100		
110	0.0	22.8	34.2#
112	0.0	14.6	21.9#
0	0.0	0.0	0.0



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\APR2395\FWKV23.D
Acq On : 23 Apr 95 10:03 pm
Sample : 9504G211-012 FNA423
Misc : GCL#6,DIL=1,5GSMP+5MLOFW+5ULIS,SS

Vial: 4
Operator:
Inst : inst #6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Library : NBS75K.L

No Library Search Compounds Detected

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-SBS-DP

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL Lab Sample ID: 9504G211-013

Sample wt/vol: 5.0 (g/mL) G Lab File ID: FWKV24

Level: (low/med) LOW Date Received: 04/10/95

% Moisture: not dec. 12 Date Analyzed: 04/23/95

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	6	U
67-64-1	Acetone	22	B
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-SBS-DP

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL

Lab Sample ID: 9504G211-013

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: FWKV24

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. 12

Date Analyzed: 04/23/95

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	
107-02-8	Acrolein	570	U
107-13-1	Acrylonitrile	110	U
75-69-4	Trichlorofluoromethane	11	U
75-71-8	Dichlorodifluoromethane	23	U
75-05-8	Acetonitrile	110	U
74-88-4	Iodomethane	11	U
107-12-0	Propionitrile (Ethyl Cyanide)	57	U
107-05-1	3-Chloropropene	23	U
126-98-7	Methacrylonitrile	23	U
74-95-3	Dibromomethane	11	U
78-83-1	Isobutyl alcohol	2300	U
106-93-4	1,2-Dibromoethane	23	U
630-20-6	1,1,1,2-Tetrachloroethane	11	U
96-18-4	1,2,3-Trichloropropane	11	U
110-57-6	trans-1,4-Dichloro-2-butene	23	U
96-12-8	1,2-Dibromo-3-chloropropane	23	U
126-99-8	2-Chloro-1,3-Butadiene	110	U
80-62-6	Methylmethacrylate	23	U
97-63-2	Ethylmethacrylate	23	U
76-01-7	Pentachloroethane	23	U

FORM 1 V-2 12/88 Rev.

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TC2-BG06-SBS-DP

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL

Lab Sample ID: 9504G211-013

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: FWKV24

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. 12

Date Analyzed: 04/23/95

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

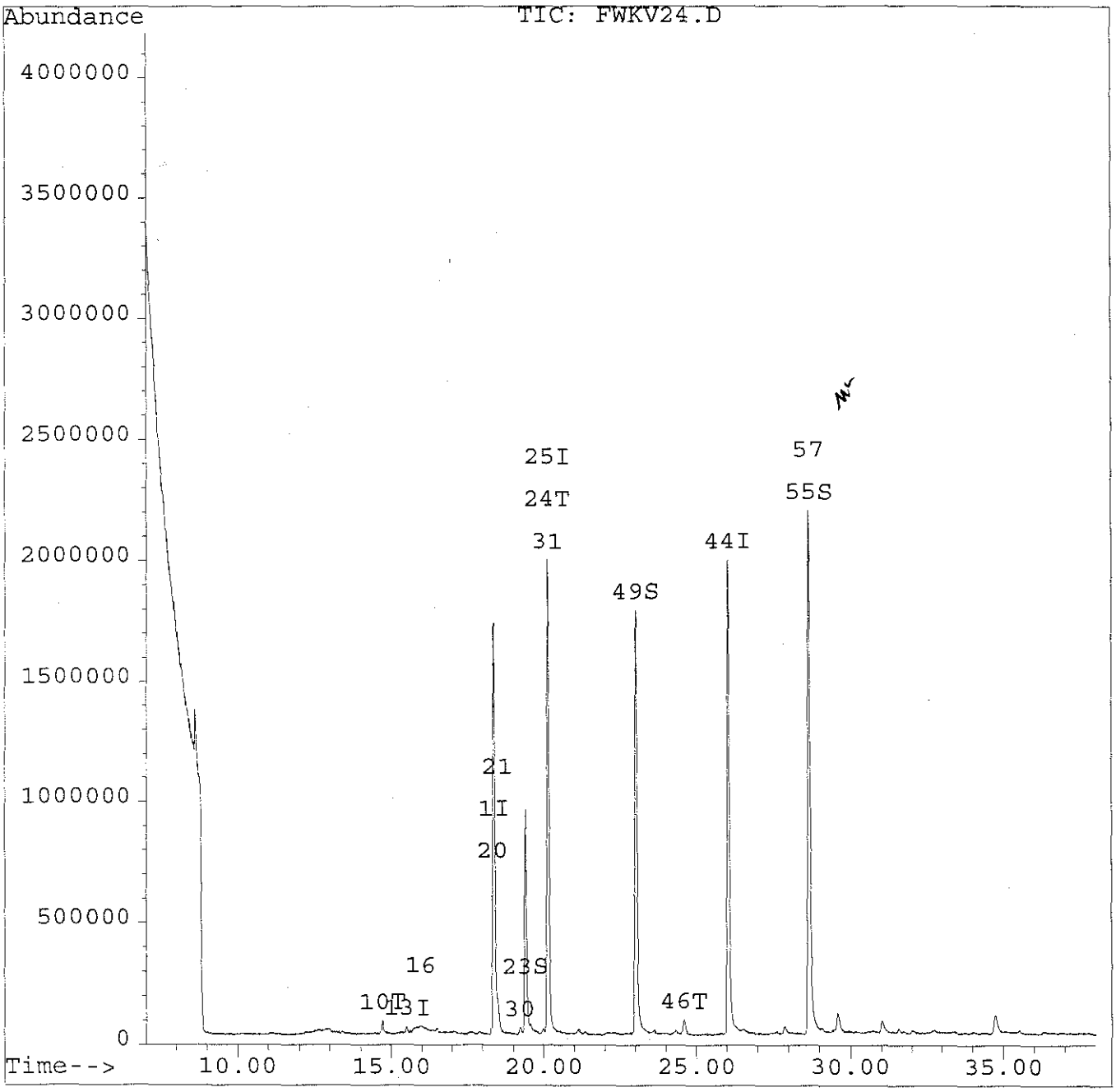
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2395\FWKV24.D
Acq On : 23 Apr 95 10:48 pm
Sample : 9504G211-013 FNA423
Misc : GCL#6,DIL=1,5GSMP+5MLOFW+5ULIS,SS
Quant Time: Apr 23 23:26 1995

Vial: 5
Operator:
Inst : inst #6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Apr 23 19:56:50 1995
Response via : Single Level Calibration



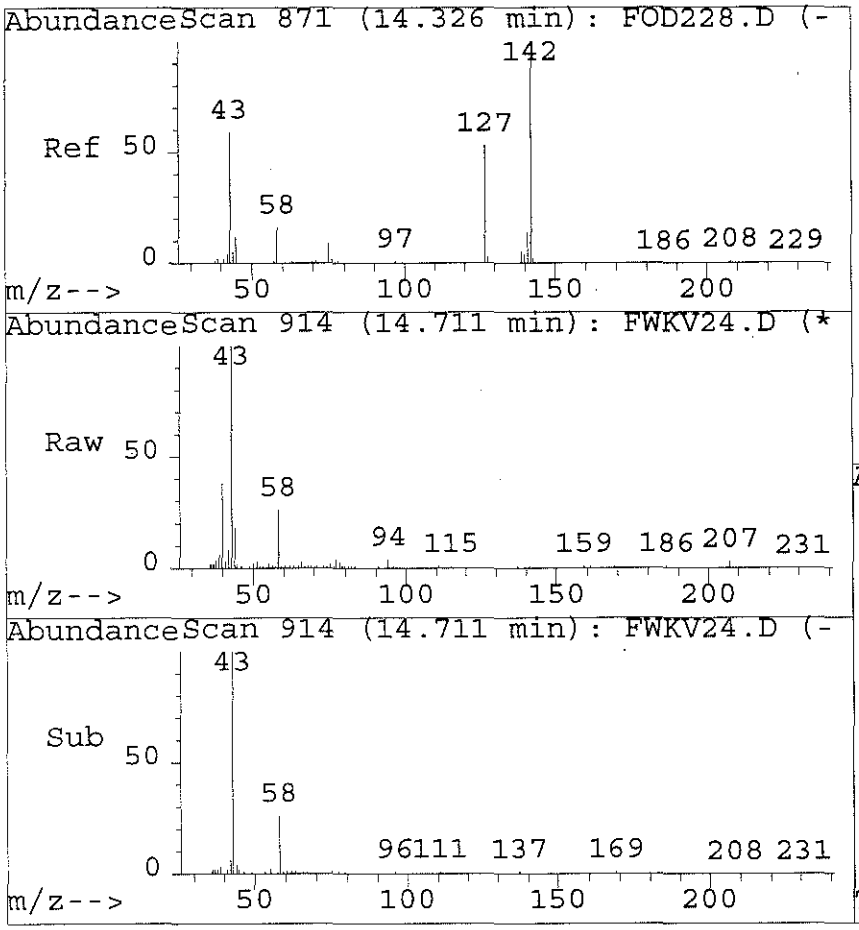
Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2395\FWKV24.D Vial: 5
Acq On : 23 Apr 95 10:48 pm Operator:
Sample : 9504G211-013 FNA423 Inst : inst #6
Misc : GCL#6,DIL=1,5GSMP+5MLOFW+5ULIS,SS Multiplr: 1.00
Quant Time: Apr 23 23:26 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Apr 23 19:56:50 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	18.37	128	1067664	50.00	ug/l		0.01
25) 1,4-Difluorobenzene	20.14	114	3694027	50.00	ug/l		0.02
44) Chlorobenzene-d5	26.04	117	3006632	50.00	ug/l		0.00
System Monitoring Compounds							%Recovery
23) 1,2-Dichloroethane-d4	19.40	65	1594724	53.03	ug/l		106.07%
49) Toluene-d8	23.01	98	2937187	48.30	ug/l		96.60%
55) Bromofluorobenzene	28.66	95	2508602	48.08	ug/l		96.16%
Target Compounds							Qvalue
10) Acetone	14.71	43	160027	19.02	ug/l		95
13) Methylene Chloride	15.53	84	27137	0.83	ug/l		87
16) Acrylonitrile	15.97	53	7602	1.41	ug/l	#	51
20) Methacrylonitrile	18.32	41	9607	0.66	ug/l	#	25
21) 2-Butanone	18.48	43	44198	3.39	ug/l	#	1
24) 1,2-Dichloroethane	20.14	62	132734	3.76	ug/l	#	1
30) Isobutanol	19.20	43	17288	15.77	ug/l	#	1
31) Crotononitrile	20.13	67	10243	5.09	ug/l	#	1
46) 2-Hexanone	24.59	43	33223	1.68	ug/l	#	33
57) 1,2,3-Trichloropropane	28.66	75	1254775	24.00	ug/l	#	51

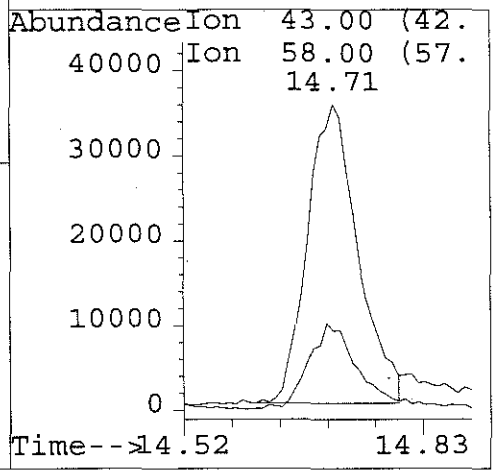
(#) = qualifier out of range (m) = manual integration

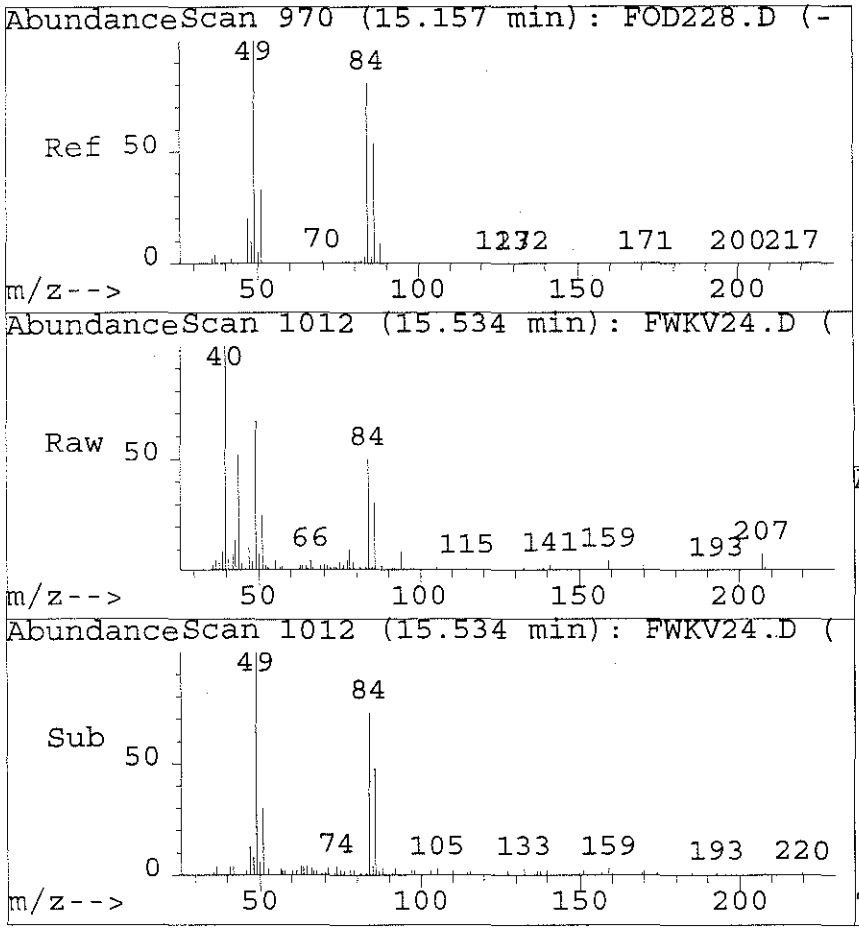


#10
Acetone
Concen: 19.02 ug/l
RT: 14.71 min Scan# 914
Delta R.T. -0.04 min
Lab File: FWKV24.D
Acq: 23 Apr 95 10:48 pm

Tgt Ion:43 Resp: 160027

Ion	Ratio	Lower	Upper
43	100		
58	25.3	8.0	48.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0

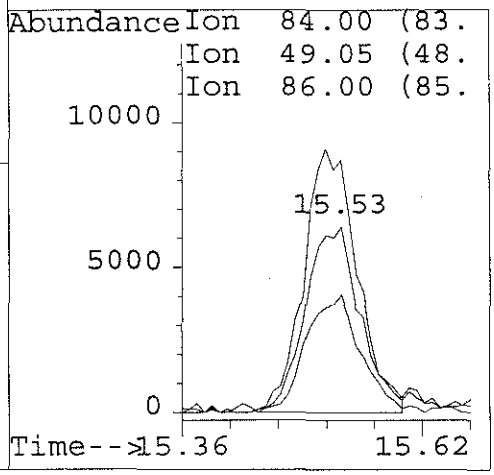




#13
Methylene Chloride
Concen: 0.83 ug/l
RT: 15.53 min Scan# 1012
Delta R.T. -0.03 min
Lab File: FWKV24.D
Acq: 23 Apr 95 10:48 pm

Tgt Ion:84 Resp: 27137

Ion	Ratio	Lower	Upper
84	100		
49	138.6	100.7	140.7
86	62.9	48.1	88.1
0	0.0	0.0	0.0



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\APR2395\FWKV24.D
Acq On : 23 Apr 95 10:48 pm
Sample : 9504G211-013 FNA423
Misc : GCL#6,DIL=1,5GSMP+5MLOFW+5ULIS,SS

Vial: 5
Operator:
Inst : inst #6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Library : NBS75K.L

No Library Search Compounds Detected

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG07-SBS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL

Lab Sample ID: 9504G211-014

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BWKV12

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. 12

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	6	U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	6	U
75-35-4	1,1-Dichloroethene	6	U
75-34-3	1,1-Dichloroethane	6	U
540-59-0	1,2-Dichloroethene (total)	6	U
67-66-3	Chloroform	6	U
107-06-2	1,2-Dichloroethane	6	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	6	U
56-23-5	Carbon Tetrachloride	6	U
108-05-4	Vinyl acetate	11	U
75-27-4	Bromodichloromethane	6	U
78-87-5	1,2-Dichloropropane	6	U
10061-01-5	cis-1,3-Dichloropropene	6	U
79-01-6	Trichloroethene	6	U
124-48-1	Dibromochloromethane	6	U
79-00-5	1,1,2-Trichloroethane	6	U
71-43-2	Benzene	6	U
10061-02-6	trans-1,3-Dichloropropene	6	U
75-25-2	Bromoform	6	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	6	U
79-34-5	1,1,2,2-Tetrachloroethane	6	U
108-88-3	Toluene	6	U
108-90-7	Chlorobenzene	6	U
100-41-4	Ethylbenzene	6	U
100-42-5	Styrene	6	U
1330-20-7	Xylene (total)	6	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG07-SBS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL Lab Sample ID: 9504G211-014

Sample wt/vol: 5.0 (g/mL) G Lab File ID: BWKV12

Level: (low/med) LOW Date Received: 04/10/95

% Moisture: not dec. 12 Date Analyzed: 04/20/95

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

107-02-8--------Acrolein	570	U
107-13-1--------Acrylonitrile	110	U
75-69-4---------Trichlorofluoromethane	11	U
75-71-8---------Dichlorodifluoromethane	23	U
75-05-8---------Acetonitrile	110	U
74-88-4---------Iodomethane	11	U
107-12-0--------Propionitrile (Ethyl Cyanide)	57	U
107-05-1--------3-Chloropropene	23	U
126-98-7--------Methacrylonitrile	23	U
74-95-3---------Dibromomethane	11	U
78-83-1---------Isobutyl alcohol	2300	U
106-93-4--------1,2-Dibromoethane	23	U
630-20-6--------1,1,1,2-Tetrachloroethane	11	U
96-18-4---------1,2,3-Trichloropropane	11	U
110-57-6--------trans-1,4-Dichloro-2-butene	23	U
96-12-8---------1,2-Dibromo-3-chloropropane	23	U
126-99-8--------2-Chloro-1,3-Butadiene	110	U
80-62-6---------Methylmethacrylate	23	U
97-63-2---------Ethylmethacrylate	23	U
76-01-7---------Pentachloroethane	23	U

FORM 1 V-2 12/88 Rev.

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TC2-BG07-SBS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL

Lab Sample ID: 9504G211-014

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BWKV12

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. 12

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

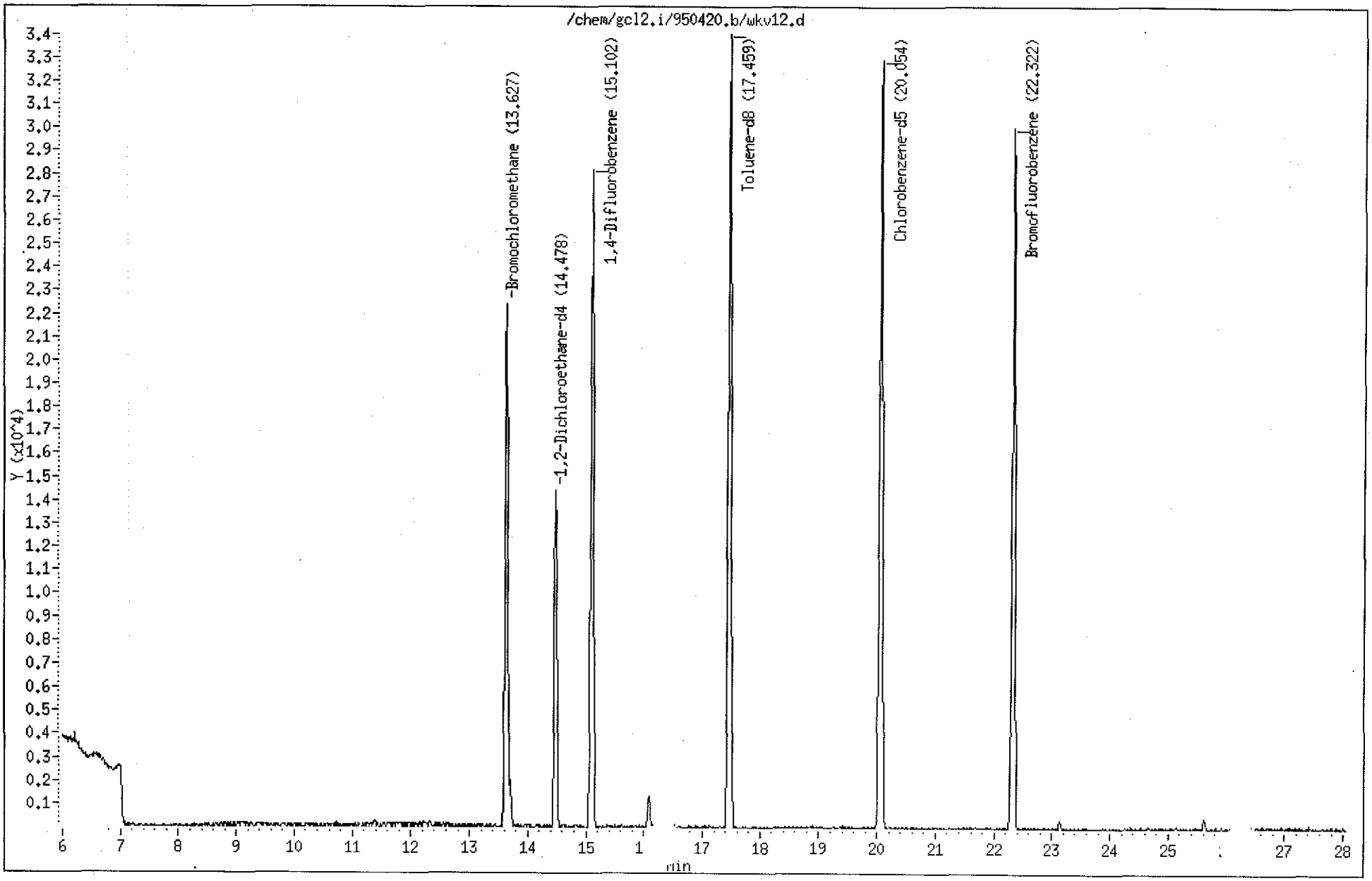
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

Data File: /chem/gcl2.i/950420.b/wkv12.d
Date : 20-APR-1995 14:49
Client ID:
Sample Info: 9504G211-014 BXB420

Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950420.b/wkv12.d
Lab Smp Id:
Inj Date : 20-APR-1995 14:49
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 9504G211-014 BXB420
Misc Info : GCL#2,DIL=1,5GSMP+5ULIS,SS+5MLOFW
Comment :
Method : /chem/gcl2.i/950420.b/8240s2.m
Meth Date : 20-Apr-1995 11:24 petruszj Quant Type: ISTD
Cal Date : 20-APR-1995 10:30 Cal File: ya420.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * (Vt * 1000)/(Va * Ws * (100 - M)/100)

Name	Value	Description
Ws	5.000	Weight of sample extracted (g)
Vt	10.000	Volume of final extract (mL)
Va	100.000	Volume of aliquot extract added (uL)
M	0.000	% Moisture (not decanted)
Uf	1.000	ng unit correction factor

hlk

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
* 27 Bromochloromethane	127.80	13.627	13.591	(1.000)	8976 ✓	50.00	
$ 33 1,2-Dichloroethane-d4	65.00	14.478	14.453	(1.062)	15011	55.10 ✓	1102
* 37 1,4-Difluorobenzene	114.00	15.102	15.078	(1.000)	42921 ✓	50.00	
$ 47 Toluene-d8	98.00	17.459	17.437	(0.871)	43901	51.32 ✓	1026
* 56 Chlorobenzene-d5	117.00	20.054	20.033	(1.000)	38448 ✓	50.00	
$ 64 Bromofluorobenzene	95.00	22.322	22.313	(1.113)	24709	47.22 ✓	944.3

Gulf Coast

Unknown Compounds Quantitation Report

Data file : /chem/gcl2.i/950420.b/wkv12.d
Lab Smp Id:
Inj Date : 20-APR-1995 14:49
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 9504G211-014 BXB420
Misc Info : GCL#2,DIL=1,5GSMP+5ULIS,SS+5MLOFW
Comment :
Method : /chem/gcl2.i/950420.b/8240s2.m
Meth Date : 20-Apr-1995 11:24 petruszj
Cal Date : 20-APR-1995 10:30 Cal File: ya420.d
Als bottle: 1
Dil Factor: 1.000 Target Version: 3.12
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: SOIL
Quantitative Mode : Use RF of Nearest Std

ISTD	RT	AREA	AMOUNT
* 7 Bromochloromethane	13.627	74041	50.000

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide			CAS #: 124-38-9				
3.655	325751	220.0	4400	5	NBS75K.l	62263	27

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG07-SBD

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL Lab Sample ID: 9504G211-015

Sample wt/vol: 5.0 (g/mL) G Lab File ID: BWKV13

Level: (low/med) LOW Date Received: 04/10/95

% Moisture: not dec. 4 Date Analyzed: 04/20/95

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG07-SBD

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL Lab Sample ID: 9504G211-015

Sample wt/vol: 5.0 (g/mL) G Lab File ID: BWKV13

Level: (low/med) LOW Date Received: 04/10/95

% Moisture: not dec. 4 Date Analyzed: 04/20/95

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	
107-02-8	Acrolein	520	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	21	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	52	U
107-05-1	3-Chloropropene	21	U
126-98-7	Methacrylonitrile	21	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2100	U
106-93-4	1,2-Dibromoethane	21	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	21	U
96-12-8	1,2-Dibromo-3-chloropropane	21	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	21	U
97-63-2	Ethylmethacrylate	21	U
76-01-7	Pentachloroethane	21	U

FORM 1 V-2 12/88 Rev.

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

TC2-BG07-SBD

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL

Lab Sample ID: 9504G211-015

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BWKV13

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. 4

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

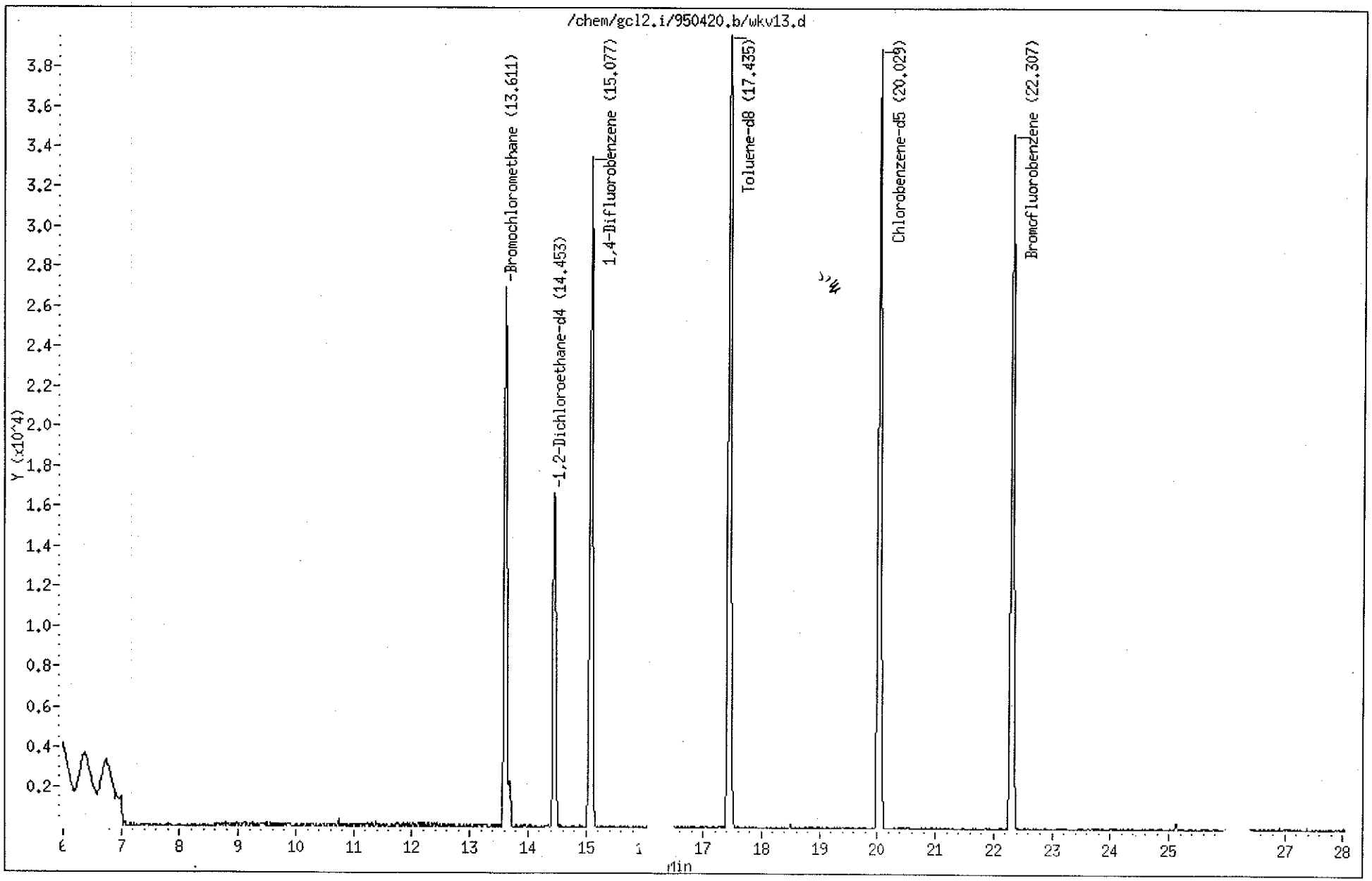
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

Data File: /chem/gcl2.i/950420.b/wkv13.d
Date : 20-APR-1995 15:27
Client ID:
Sample Info: 9504G211-015 BXB420

Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950420.b/wkv13.d
Lab Smp Id:
Inj Date : 20-APR-1995 15:27
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 9504G211-015 BXB420
Misc Info : GCL#2,DIL=1,5GSMP+5ULIS,SS+5MLOFW
Comment :
Method : /chem/gcl2.i/950420.b/8240s2.m
Meth Date : 20-Apr-1995 11:24 petruszj Quant Type: ISTD
Cal Date : 20-APR-1995 10:30 Cal File: ya420.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * (Vt * 1000)/(Va * Ws * (100 - M)/100)

Name	Value	Description
Ws	5.000	Weight of sample extracted (g)
Vt	10.000	Volume of final extract (mL)
Va	100.000	Volume of aliquot extract added (uL)
M	0.000	% Moisture (not decanted)
Uf	1.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
* 27 Bromochloromethane	127.80	13.611	13.591	(1.000)	10676 ✓	50.00	
$ 33 1,2-Dichloroethane-d4	65.00	14.453	14.453	(1.062)	18201	56.18 ✓	1124
* 37 1,4-Difluorobenzene	114.00	15.077	15.078	(1.000)	51352 ✓	50.00	
$ 47 Toluene-d8	98.00	17.435	17.437	(0.870)	51244	51.05 ✓	1021
* 56 Chlorobenzene-d5	117.00	20.029	20.033	(1.000)	45116 ✓	50.00	
$ 64 Bromofluorobenzene	95.00	22.307	22.313	(1.114)	29067	47.33 ✓	946.7

Gulf Coast

Unknown Compounds Quantitation Report

Data file : /chem/gcl2.i/950420.b/wkv13.d
Lab Smp Id:
Inj Date : 20-APR-1995 15:27
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 9504G211-015 BXB420
Misc Info : GCL#2,DIL=1,5GSMP+5ULIS,SS+5MLOFW
Comment :
Method : /chem/gcl2.i/950420.b/8240s2.m
Meth Date : 20-Apr-1995 11:24 petruszj
Cal Date : 20-APR-1995 10:30 Cal File: ya420.d
Als bottle: 1
Dil Factor: 1.000 Target Version: 3.12
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: SOIL
Quantitative Mode : Use RF of Nearest Std

ISTD	RT	AREA	AMOUNT
* 27 Bromochloromethane	13.611	85849	50.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide					CAS #: 124-38-9		
3.718	219865	128.0	2561	5	NBS75K.1	62263	27
Carbon dioxide					CAS #: 124-38-9		
4.838	82303	47.93	958.7	3	NBS75K.1	34	27
Ethylene oxide					CAS #: 75-21-8		
5.224	45342	26.41	528.2	2	NBS75K.1	62267	27
Ethylene oxide					CAS #: 75-21-8		
5.601	33976	19.79	395.8	2	NBS75K.1	62267	27
Ethylene oxide					CAS #: 75-21-8		
5.997	29117	16.96	339.2	2	NBS75K.1	62267	27
Ethylene oxide					CAS #: 75-21-8		
6.363	24037	14.00	280.0	2	NBS75K.1	62267	27

IV. Standards Data Package

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Roy F. Weston, Inc. Contract: 1989-09-02

Case No.: Techalloy RFW Lot: 9504G211

Instrument ID: gc12 Calibration Date(s): 04/03/95 04/03/95

Heated Purge: (Y/N) N Calibration Time(s): ~~1252~~ 1034 1506

GC Column: _____ ID: ____(mm) JK 5-2-95

LAB FILE ID: RRF20+= BYB403 RRF50+= BYA403
RRF100= BYC403 RRF150= BYD403 RRF200= BYE403

COMPOUND		RRF20+	RRF50+	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD	MIN RRF
Chloromethane	#	3.041	2.954	2.799	2.736	2.778	2.862	4.5#	00
Bromomethane		1.933	1.972	1.927	1.866	1.844	1.908	2.7	
Vinyl chloride	*	2.688	2.594	2.553	2.513	2.518	2.573	2.8*	00
Chloroethane		1.238	1.244	1.165	1.108	1.084	1.168	6.3	
Methylene Chloride		1.931	1.905	1.886	1.750	1.618	1.818	7.2	
Acetone		1.376	0.519	0.554	0.493	0.499	0.688	56.0	
Carbon Disulfide		5.315	5.395	5.325	4.724	4.433	5.038	8.6	
1,1-Dichloroethene	*	1.373	1.422	1.323	1.089	0.921	1.225	17.4*	00
1,1-Dichloroethane	#	4.030	4.123	4.362	4.185	3.989	4.138	3.6#	00
1,2-Dichloroethene (total)		1.849	1.707	1.771	1.499	1.566	1.679	8.6	
Chloroform	*	3.543	3.603	3.663	3.663	3.663	3.627	1.5*	00
2-Dichloroethane		2.988	3.005	2.930	2.930	2.930	2.956	1.3	
2-Butanone		1.556	1.254	1.197	1.197	1.204	1.282	12.1	
1,1,1-Trichloroethane		0.551	0.580	0.584	0.584	0.584	0.577	2.6	
Carbon Tetrachloride		0.468	0.500	0.502	0.502	0.502	0.495	3.1	
Vinyl acetate		1.129	1.129	1.342	1.339	1.303	1.248	8.8	
Bromodichloromethane		0.617	0.627	0.633	0.633	0.633	0.629	1.1	
1,2-Dichloropropane	*	0.464	0.484	0.514	0.514	0.514	0.498	4.7*	00
cis-1,3-Dichloropropene		0.707	0.720	0.740	0.740	0.740	0.729	2.1	
Trichloroethene		0.427	0.428	0.427	0.427	0.427	0.427	0.1	
Dibromochloromethane		0.412	0.415	0.416	0.398	0.372	0.403	4.5	JSO 4/30/95
1,1,2-Trichloroethane		0.333	0.333	0.330	0.330	0.330	0.331	0.6	
Benzene		1.218	1.210	1.260	1.260	1.260	1.241	2.0	
trans-1,3-Dichloropropene		0.735	0.474	0.763	0.763	0.763	0.700	18.1	
Bromoform	#	0.292	0.294	0.304	0.304	0.304	0.300	2.0#	00
4-Methyl-2-pentanone		0.639	0.390	0.698	0.698	0.698	0.624	21.4	
2-Hexanone		0.528	0.327	0.477	0.477	0.477	0.457	16.6	
Tetrachloroethene		0.481	0.289	0.441	0.441	0.441	0.419	17.8	
1,1,2,2-Tetrachloroethane	#	0.642	0.387	0.641	0.641	0.641	0.590	19.3#	00
Toluene	*	1.479	0.950	1.611	1.611	1.611	1.452	19.7*	00
Chlorobenzene	#	1.033	0.661	1.016	1.016	1.016	0.949	17.0#	00
Ethylbenzene	*	0.471	0.292	0.414	0.414	0.414	0.401	16.4*	00
Styrene		1.107	0.682	0.972	0.972	0.972	0.941	16.6	
Xylene (total)		1.455	0.892	1.313	1.313	1.313	1.257	17.0	
Acrolein		11.48	10.05	9.060	8.177	6.647	9.083	20.2	
Acrylonitrile		3.197	2.823	2.819	2.788	2.571	2.840	7.9	
Trichlorofluoromethane		3.024	2.181	1.147	1.003	1.012	1.673	53.8	

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

6C

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Roy F. Weston, Inc. Contract: 1989-09-02

Case No.: Techalloy RFW Lot: 9504G211

Instrument ID: gc12 Calibration Date(s): 04/03/95 04/03/95

Heated Purge: (Y/N) N Calibration Time(s): 1252 1506

GC Column: _____ ID: ____(mm)

LAB FILE ID: RRF20+= BYB403 RRF50+= BYA403
RRF100= BYC403 RRF150= BYD403 RRF200= BYE403

COMPOUND	RRF20+	RRF50+	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD	MIN RRF
Dichlorodifluoromethane	2.889	3.361	3.118	2.638	2.716	2.944	10.1	
Acetonitrile	12.84	9.223	9.075	8.092	7.251	9.296	23.0	
Iodomethane	8.157	5.829	5.316	4.900	4.552	5.751	24.8	
Propionitrile (Ethyl Cyanide)	0.305	0.267	0.311	0.311	0.311	0.301	6.4	
3-Chloropropene	2.378	1.724	1.618	1.477	1.350	1.709	23.4	
Methacrylonitrile	4.426	2.797	3.087	3.087	3.087	3.297	19.5	
Dibromomethane	0.886	0.592	0.543	0.543	0.543	0.621	24.0	
Isobutyl alcohol	1.912	1.134	1.250	1.250	1.250	1.360	23.0	
1,2-Dibromoethane	1.248	0.803	0.752	0.752	0.752	0.861	25.2	
1,1,1,2-Tetrachloroethane	1.348	0.528	0.711	0.711	0.711	0.802	39.3	
1,2,3-Trichloropropane	1.866	0.809	1.144	1.144	1.144	1.222	31.8	
trans-1,4-Dichloro-2-butene								
1,2-Dibromo-3-chloropropane								
2-Chloro-1,3-Butadiene								
Methylmethacrylate	1.519	1.420	1.063	1.063	1.063	1.226	18.4	
Ethylmethacrylate	1.996	0.833	1.314	1.314	1.314	1.354	30.6	
Pentachloroethane	0.787	0.321	0.476	0.476	0.476	0.508	33.5	
Toluene-d8	1.383	0.799	1.233	1.175	1.064	1.131	19.3	
4-Bromofluorobenzene	0.807	0.509	0.696	0.648	0.598	0.651	17.1	
1,2-Dichloroethane-d4	2.516	2.287	1.968	1.908	1.894	2.115	13.0	

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

Gulf Coast

INITIAL CALIBRATION DATA

Start Cal Date : 03-APR-1995 10:34
End Cal Date : 03-APR-1995 15:06
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/gcl2.i/03Apr1995a.b/8240w2.m
Cal Date : 04-Apr-1995 11:27 heniffa
Curve Type : Average

Calibration File Names:
Level 1: /chem/gcl2.i/03Apr1995a.b/yb403.d
Level 2: /chem/gcl2.i/03Apr1995a.b/ya403.d
Level 3: /chem/gcl2.i/03Apr1995a.b/yc403.d
Level 4: /chem/gcl2.i/03Apr1995a.b/yd403.d
Level 5: /chem/gcl2.i/03Apr1995a.b/ye403.d

	Compound	20 Level 1	50 Level 2	100 Level 3	150 Level 4	200 Level 5	RRF	% RSD	
1	Dichlorodifluoromethane	2.88871	3.36097	3.11803	2.63815	2.71560	2.94429	10.089	
2	Chloromethane	3.04122	2.95397	2.79895	2.73561	2.77820	2.86159	4.541	*
3	Vinyl Chloride	2.68815	2.59379	2.55343	2.51334	2.51786	2.57331	2.794	*
4	Bromomethane	1.93335	1.97171	1.92740	1.86590	1.84375	1.90842	2.745	
5	Chloroethane	1.23824	1.24407	1.16512	1.10831	1.08381	1.16791	6.260	
6	Trichlorofluoromethane	3.02402	2.18091	1.14683	1.00278	1.01236	1.67338	53.831	
7	Trichlorotrifluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
8	Methyl-tert-butylether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
9	Ethyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
10	Acrolein	0.28702	0.25122	0.22649	0.20442	0.16617	0.22706	20.181	*
11	1,1-Dichloroethene	1.37259	1.42178	1.32274	1.08896	0.92121	1.22545	17.352	
12	Iodomethane	3.26288	2.91445	2.65802	2.44992	2.27597	2.71225	14.353	
13	Acetone	1.37626	0.51930	0.55393	0.49338	0.49896	0.68837	55.970	
14	Carbon Disulfide	5.31470	5.39543	5.32499	4.72421	4.43272	5.03841	8.603	
15	3-Chloropropene	0.95123	0.86227	0.80881	0.73856	0.67473	0.80712	13.292	
16	Acetonitrile	1.60470	1.15290	1.13436	1.01149	0.90638	1.16197	22.965	
17	Methylene Chloride	1.93056	1.90462	1.88571	1.75015	1.61814	1.81784	7.241	
18	Acrylonitrile	0.39957	0.35291	0.35235	0.34849	0.32142	0.35495	7.929	
19	1,1-Dichloroethane	4.03016	4.12308	4.36207	4.18467	3.98936	4.13787	3.550	*
20	Vinyl acetate	1.12863	1.12904	1.34170	1.33883	1.30315	1.24827	8.818	
21	1,2-Dichloroethene (total)	1.84939	1.70725	1.77116	1.49917	1.56572	1.67854	8.607	
22	cis-1,2-Dichloroethene	2.01809	2.01325	2.12555	1.99321	1.90417	2.01085	3.924	
23	2-Butanone	1.55655	1.25429	1.19711	1.18923	1.20368	1.28017	12.232	
24	Ethyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
25	Propionitrile	0.03807	0.03335	0.03886	0.04048	0.03823	0.03780	7.045	
26	Methacrylonitrile	1.77046	1.39863	1.54334	1.50901	1.48551	1.54139	9.003	
28	Chloroform	3.54267	3.60272	3.66339	3.45784	3.21222	3.49577	5.028	*

Gulf Coast

INITIAL CALIBRATION DATA

Start Cal Date : 03-APR-1995 10:34
End Cal Date : 03-APR-1995 15:06
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/gcl2.i/03Apr1995a.b/8240w2.m
Cal Date : 04-Apr-1995 11:27 heniffa
Curve Type : Average

	Compound	20 Level 1	50 Level 2	100 Level 3	150 Level 4	200 Level 5	RRF	% RSD	
29	1,1,1-Trichloroethane	0.55071	0.57993	0.58453	0.54472	0.50003	0.55198	6.139	
30	Carbon Tetrachloride	0.46752	0.50016	0.50172	0.46971	0.43346	0.47451	5.918	
31	Tetrahydrofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
32	Isobutanol	0.01912	0.01418	0.01563	0.01407	0.01150	0.01490	18.728	
34	Benzene	1.21772	1.20958	1.25959	1.02209	0.81354	1.10450	16.899	
35	1,2-Dichloroethane	2.98837	3.00482	2.92964	2.62137	2.16721	2.74228	13.020	
	Crotononitrile	0.03556	0.03136	0.03460	0.03557	0.03269	0.03396	5.492	
	Trichloroethene	0.42665	0.42822	0.42710	0.39287	0.35439	0.40585	7.986	
39	1,2-Dichloropropane	0.46387	0.48391	0.51415	0.48935	0.45311	0.48088	4.930	*
40	Methylmethacrylate	0.60775	0.70977	0.53168	0.43528	0.39687	0.53627	23.746	
41	Dibromomethane	0.35424	0.29596	0.27148	0.24856	0.21544	0.27714	18.883	
42	Bromodichloromethane	0.61737	0.62717	0.63292	0.59153	0.54110	0.60202	6.240	
43	2-Chloroethylvinylether	0.16888	0.18248	0.20176	0.19778	0.19183	0.18855	6.986	
44	cis-1,3-Dichloropropene	0.70676	0.71978	0.74016	0.68994	0.63798	0.69892	5.538	
45	2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	
47	Toluene	1.47941	0.95014	1.61072	1.46422	1.31021	1.36294	18.648	*
48	trans-1,3-Dichloropropene	0.73507	0.47391	0.76285	0.72553	0.66544	0.67256	17.336	
49	4-Methyl-2-pentanone	0.63933	0.39006	0.69750	0.71132	0.68984	0.62561	21.492	
50	Ethylmethacrylate	0.79837	0.41653	0.65680	0.63063	0.55816	0.61210	22.842	
51	1,1,2-Trichloroethane	0.33284	0.33324	0.32960	0.31200	0.28948	0.31943	5.911	
52	Tetrachloroethene	0.48142	0.28917	0.44064	0.40664	0.36841	0.39725	18.484	
53	2-Hexanone	0.52804	0.32707	0.47692	0.48471	0.46814	0.45698	16.671	
54	Chlorodibromomethane	0.41175	0.41543	0.41638	0.39770	0.37289	0.40283	4.551	
55	1,2-Dibromoethane	0.49900	0.40130	0.37578	0.34995	0.31451	0.38811	17.988	
57	Chlorobenzene	1.03325	0.66062	1.01645	0.94109	0.85479	0.90124	16.859	*
58	1,1,1,2-Tetrachloroethane	0.53912	0.26402	0.35537	0.30707	0.25874	0.34487	33.449	
59	Ethylbenzene	0.47056	0.29183	0.41356	0.35029	0.29103	0.36346	21.546	*
60	m,p-xylene	1.40813	0.84752	1.23158	1.06834	0.91481	1.09408	20.999	
61	Xylene (total)	1.45476	0.89156	1.31342	1.16842	1.03117	1.17186	19.007	
62	Styrene	1.10718	0.68211	0.97236	0.86613	0.75598	0.87675	19.324	
63	Bromoform	0.29211	0.29449	0.30424	0.29745	0.28619	0.29489	2.258	#
65	1,2,3-Trichloropropane	0.74620	0.40458	0.57221	0.55712	0.48533	0.55309	22.927	
	1,1,2,2-Tetrachloroethane	0.64238	0.38702	0.64062	0.61489	0.57880	0.57274	18.675	#
67	trans-1,4-Dichloro-2-butene	0.12081	0.06011	0.08858	0.08251	0.07222	0.08484	26.902	

Gulf Coast

INITIAL CALIBRATION DATA

Start Cal Date : 03-APR-1995 10:34
End Cal Date : 03-APR-1995 15:06
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/gcl2.i/03Apr1995a.b/8240w2.m
Cal Date : 04-Apr-1995 11:27 heniffa
Curve Type : Average

	Compound	20 Level 1	50 Level 2	100 Level 3	150 Level 4	200 Level 5	___ RRF	% RSD
68	Pentachloroethane	0.31494	0.16063	0.23825	0.22281	0.19817	0.22696	25.227
69	1,3-Dichlorobenzene	0.93933	0.57741	0.85399	0.79390	0.70826	0.77458	17.924
70	1,4-Dichlorobenzene	0.93704	0.57381	0.84856	0.77313	0.69701	0.76591	18.211
71	1,2-Dichlorobenzene	0.90313	0.54190	0.81009	0.75434	0.67474	0.73684	18.606
72	1,2-dibromo-3-chloropropane	0.14421	0.07474	0.12112	0.12489	0.11746	0.11649	21.904
73	Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++
3	1,2-Dichloroethane-d4	2.51610	2.28739	1.96848	1.90811	1.89466	2.11495	13.022
$ 46	Toluene-d8	1.38332	0.79939	1.23331	1.17499	1.06441	1.13108	19.293
$ 64	Bromofluorobenzene	0.80708	0.50869	0.69626	0.64835	0.59748	0.65157	17.078

Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/03Apr1995a.b/ya403.d
Lab Smp Id:
Inj Date : 03-APR-1995 10:34
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : STD50+A+N BXA403
Misc Info : GCL#2,DIL=1,5MLOFW+5ULIS,SS+2.5UL256,257,251,207+2UL24
Comment :
Method : /chem/gcl2.i/03Apr1995a.b/8240w2.m
Meth Date : 03-Apr-1995 20:42 kruedinm Quant Type: ISTD
Cal Date : 03-APR-1995 10:34 Cal File: ya403.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * 1/Vo

Name	Value	Description
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1	Dichlorodifluoromethane	85.00	5.337	5.337	(0.389)	114421	50.00	57.08 (M)
2	Chloromethane	50.00	6.537	6.537	(0.476)	100565	50.00	51.61 (M)
3	Vinyl Chloride	62.00	7.282	7.282	(0.531)	88303	50.00	50.40 (M)
4	Bromomethane	94.00	8.521	8.521	(0.621)	67125	50.00	51.66 (M)
5	Chloroethane	64.00	8.867	8.867	(0.646)	42353	50.00	53.26 (M)
6	Trichlorofluoromethane	101.00	9.522	9.522	(0.694)	74247	50.00	65.16 (M)
10	Acrolein	56.00	10.494	10.494	(0.765)	342106	2000	2213 (M)
11	1,1-Dichloroethene	96.00	10.563	10.563	(0.770)	48403	50.00	58.01
12	Iodomethane	142.00	10.792	10.792	(0.787)	198439	100.0	107.4
13	Acetone	43.00	10.811	10.811	(0.788)	17679	50.00	37.72 (M)
14	Carbon Disulfide	76.00	10.841	10.841	(0.790)	183682	50.00	53.54
15	3-Chloropropene	76.00	11.238	11.238	(0.819)	58710	100.0	106.8
16	Acetonitrile	41.00	11.238	11.238	(0.819)	313994	400.0	396.9
17	Methylene Chloride	84.00	11.457	11.457	(0.835)	64841	50.00	52.39
18	Acrylonitrile	53.00	11.884	11.884	(0.866)	96116	400.0	397.7
19	1,1-Dichloroethane	63.00	12.509	12.509	(0.912)	140366	50.00	49.82
20	Vinyl acetate	43.00	12.598	12.598	(0.829)	194216	50.00	45.22
21	1,2-Dichloroethene (total)	96.00	13.362	13.362	(0.974)	116243	100.0	101.7 (M)
[illegible]	cis-1,2-Dichloroethene	96.00	13.362	13.362	(0.974)	68539	50.00	50.06
	2-Butanone	43.00	13.402	13.402	(0.977)	42701	50.00	48.99 (M)
25	Propionitrile	54.00	13.501	13.501	(0.889)	45899	400.0	352.9 (M)
26	Methacrylonitrile	41.00	13.709	13.709	(0.999)	95230	100.0	90.74

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	27 Bromochloromethane	127.80	13.719	13.719	(1.000)	34044	50.00	
	28 Chloroform	83.00	13.839	13.839	(1.009)	122651	50.00	51.53
	29 1,1,1-Trichloroethane	97.00	14.087	14.087	(0.927)	99758	50.00	52.53
	30 Carbon Tetrachloride	116.80	14.325	14.325	(0.943)	86036	50.00	52.70
	32 Isobutanol	43.00	14.534	14.534	(0.957)	195082	4000	3806
$	33 1,2-Dichloroethane-d4	65.00	14.573	14.573	(1.062)	77872	50.00	54.08
	34 Benzene	78.00	14.643	14.643	(0.964)	208070	50.00	54.76
	35 1,2-Dichloroethane	62.00	14.683	14.683	(1.070)	102296	50.00	54.79 (M)
*	36 1,4-Difluorobenzene	114.00	15.189	15.189	(1.000)	172018	50.00	
	37 Crotononitrile	67.00	15.219	15.219	(1.002)	43161	400.0	369.4
	38 Trichloroethene	130.00	15.606	15.606	(1.027)	73662	50.00	52.76 (M)
	39 1,2-Dichloropropane	63.00	15.973	15.973	(1.052)	83241	50.00	50.31 (M)
	40 Methylmethacrylate	41.00	16.092	16.092	(1.059)	244187	100.0	132.4 (M)
	41 Dibromomethane	174.00	16.172	16.172	(1.065)	101820	100.0	106.8 (M)
	42 Bromodichloromethane	83.00	16.400	16.400	(1.080)	107885	50.00	52.09 (M)
	43 2-Chloroethylvinylether	63.00	16.837	16.837	(1.109)	31390	50.00	48.39 (M)
	44 cis-1,3-Dichloropropene	75.00	17.105	17.105	(1.126)	123815	50.00	51.49 (M)
$	46 Toluene-d8	98.00	17.552	17.552	(0.000)	179594	50.00	35.34 (M)
	47 Toluene	91.00	17.671	17.671	(0.000)	213464	50.00	34.86 (M)
	48 trans-1,3-Dichloropropene	75.00	18.038	18.038	(0.000)	106470	50.00	35.23 (M)
	4-Methyl-2-pentanone	43.00	17.333	17.333	(0.861)	87633	50.00	126.9 (M)
	Ethylmethacrylate	69.00	18.138	18.138	(0.000)	187161	100.0	68.05 (M)
	51 1,1,2-Trichloroethane	97.00	18.376	18.376	(1.210)	57323	50.00	52.16 (M)
	52 Tetrachloroethene	164.00	18.615	18.615	(0.000)	64967	50.00	36.40 (M)
	53 2-Hexanone	43.00	18.773	18.773	(0.000)	73482	50.00	35.79 (M)
	54 Chlorodibromomethane	129.00	19.091	19.091	(1.257)	71461	50.00	51.56 (M)
	55 1,2-Dibromoethane	107.00	19.319	19.319	(1.272)	138060	100.0	103.4 (M)
*	56 Chlorobenzene-d5	117.00	20.143	20.143	(1.000)	224665	50.00	(M)
	57 Chlorobenzene	112.00	20.193	20.193	(1.002)	148419	50.00	36.65 (M)
	58 1,1,1,2-Tetrachloroethane	131.00	20.342	20.342	(1.010)	118633	100.0	76.56 (M)
	59 Ethylbenzene	106.00	20.372	20.372	(1.011)	65565	50.00	40.15 (M)
	60 m,p-xylene	91.00	20.591	20.591	(1.022)	380815	100.0	77.46 (M)
	61 Xylene (total)	91.00	21.355	21.355	(1.060)	200302	50.00	38.04 (M)
	62 Styrene	104.00	21.394	21.394	(1.062)	153247	50.00	38.90 (M)
	63 Bromoform	173.00	21.791	21.791	(1.435)	50657	50.00	49.93 (M)
$	64 Bromofluorobenzene	95.00	22.407	22.407	(1.112)	114284	50.00	39.04 (M)
	65 1,2,3-Trichloropropane	75.00	22.804	22.804	(1.132)	181792	100.0	73.15 (M)
	66 1,1,2,2-Tetrachloroethane	83.00	22.704	22.704	(1.127)	86949	50.00	33.79 (M)
	67 trans-1,4-Dichloro-2-butene	89.00	22.804	22.804	(1.132)	27010	100.0	70.85 (M)
	68 Pentachloroethane	167.00	23.985	23.985	(1.191)	72178	100.0	70.78 (M)
	69 1,3-Dichlorobenzene	146.00	24.621	24.621	(1.222)	129723	50.00	37.27 (M)
	70 1,4-Dichlorobenzene	146.00	24.809	24.809	(1.232)	128915	50.00	37.46 (M)
	71 1,2-Dichlorobenzene	146.00	25.583	25.583	(1.270)	121745	50.00	36.77 (M)
	72 1,2-dibromo-3-chloropropane	157.00	27.330	27.330	(1.357)	33585	100.0	64.16 (M)

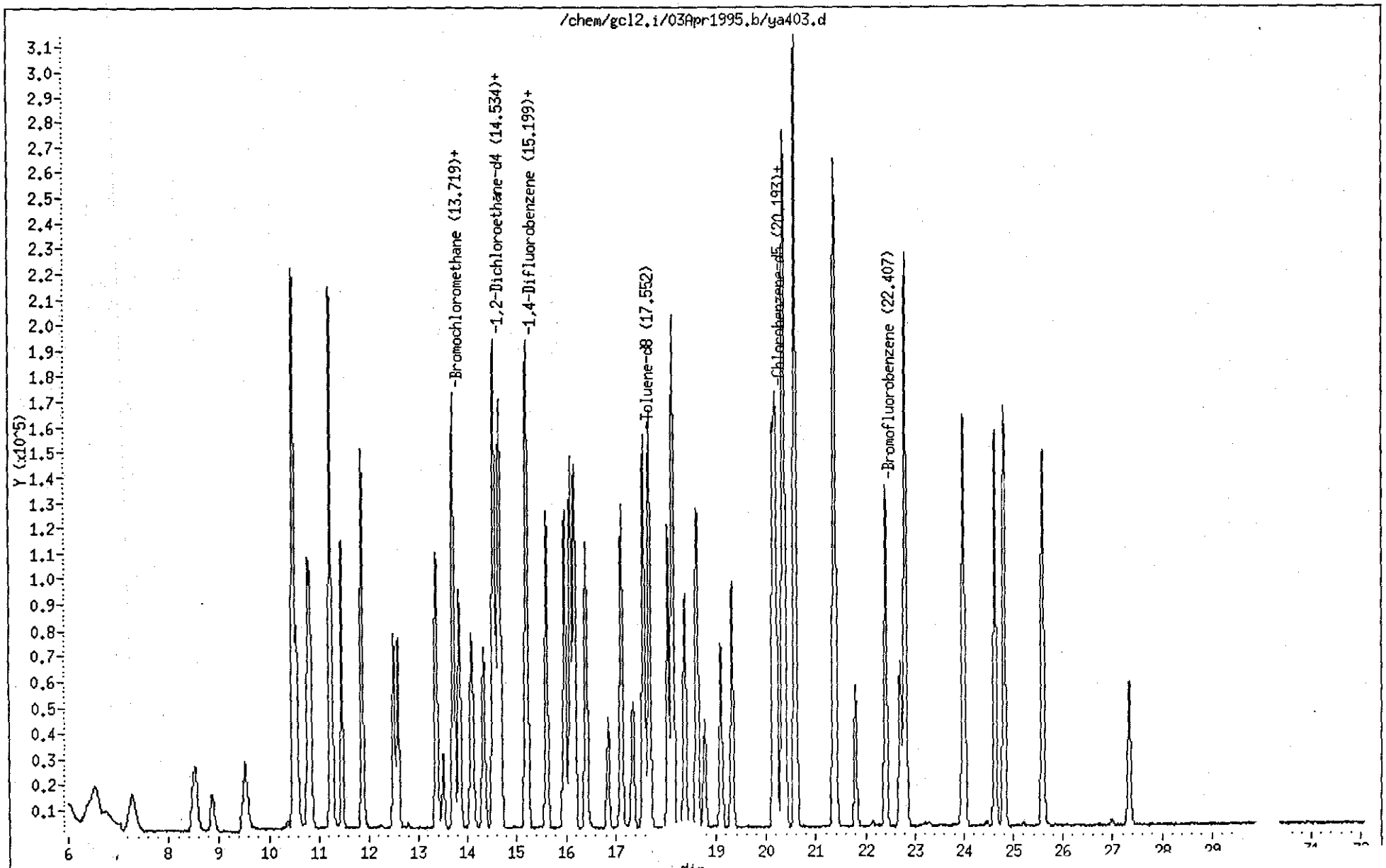
Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcl2.i/03Apr1995.b/ya403.d
Date : 03-APR-1995 10:34
Client ID:
Sample Info: STD50+A+N BXA403
Purge Volume: 5.0
Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/03Apr1995a.b/yb403.d
Lab Smp Id:
Inj Date : 03-APR-1995 12:52
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : STD20+A+N BXA403
Misc Info : GCL#2,DIL=1,5MLOFW+5ULIS+2ULSS+1UL256,257,207,251+1UL2
Comment :
Method : /chem/gcl2.i/03Apr1995a.b/8240w2.m
Meth Date : 03-Apr-1995 20:42 kruedinm Quant Type: ISTD
Cal Date : 03-APR-1995 10:34 Cal File: ya403.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * 1/Vo

Name	Value	Description
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85.00	5.349	5.349	(0.391)	39305	20.00	19.62(M)
2 Chloromethane	50.00	6.569	6.569	(0.480)	41380	20.00	21.26
3 Vinyl Chloride	62.00	7.273	7.273	(0.531)	36576	20.00	20.89
4 Bromomethane	94.00	8.523	8.523	(0.623)	26306	20.00	20.26
5 Chloroethane	64.00	8.838	8.838	(0.646)	16848	20.00	21.20
6 Trichlorofluoromethane	101.00	9.493	9.493	(0.693)	41146	20.00	36.14
10 Acrolein	56.00	10.465	10.465	(0.764)	156214	800.0	1011(M)
11 1,1-Dichloroethene	96.00	10.544	10.544	(0.770)	18676	20.00	22.40
12 Iodomethane	142.00	10.762	10.762	(0.786)	110990	50.00	60.15
13 Acetone	43.00	10.772	10.772	(0.787)	18726	20.00	39.99
14 Carbon Disulfide	76.00	10.822	10.822	(0.791)	72314	20.00	21.10
15 3-Chloropropene	76.00	11.209	11.209	(0.819)	32357	50.00	58.93
16 Acetonitrile	41.00	11.219	11.219	(0.820)	174674	160.0	221.0
17 Methylene Chloride	84.00	11.427	11.427	(0.835)	26268	20.00	21.24
18 Acrylonitrile	53.00	11.844	11.844	(0.865)	43494	160.0	180.1
19 1,1-Dichloroethane	63.00	12.479	12.479	(0.912)	54836	20.00	19.48
20 Vinyl acetate	43.00	12.558	12.558	(0.828)	78624	20.00	18.08
21 1,2-Dichloroethene (total)	96.00	13.332	13.332	(0.974)	50327	40.00	44.07(M)
22 cis-1,2-Dichloroethene	96.00	13.332	13.332	(0.974)	27459	20.00	20.07
2-Butanone	43.00	13.371	13.371	(0.977)	21179	20.00	24.32(M)
25 Propionitrile	54.00	13.471	13.471	(0.888)	21216	160.0	161.1
26 Methacrylonitrile	41.00	13.679	13.679	(0.999)	60224	50.00	57.43

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	27 Bromochloromethane	127.80	13.689	13.689	(1.000)	34016	50.00	
	28 Chloroform	83.00	13.808	13.808	(1.009)	48203	20.00	20.27
	29 1,1,1-Trichloroethane	97.00	14.056	14.056	(0.927)	38364	20.00	19.95
	30 Carbon Tetrachloride	116.80	14.304	14.304	(0.943)	32569	20.00	19.70
	32 Isobutanol	43.00	14.503	14.503	(0.956)	133208	2000	2567
$	33 1,2-Dichloroethane-d4	65.00	14.553	14.553	(1.063)	34235	20.00	23.79
	34 Benzene	78.00	14.622	14.622	(0.964)	84830	20.00	22.05
	35 1,2-Dichloroethane	62.00	14.662	14.662	(1.071)	40661	20.00	21.79
*	36 1,4-Difluorobenzene	114.00	15.168	15.168	(1.000)	174158	50.00	
	37 Crotononitrile	67.00	15.198	15.198	(1.002)	19816	160.0	167.5
	38 Trichloroethene	130.00	15.585	15.585	(1.027)	29722	20.00	21.02
	39 1,2-Dichloropropane	63.00	15.952	15.952	(1.052)	32315	20.00	19.29
	40 Methylmethacrylate	41.00	16.082	16.082	(1.060)	105844	50.00	56.66
	41 Dibromomethane	174.00	16.151	16.151	(1.065)	61694	50.00	63.91
	42 Bromodichloromethane	83.00	16.389	16.389	(1.081)	43008	20.00	20.51
	43 2-Chloroethylvinylether	63.00	16.836	16.836	(1.110)	11765	20.00	17.91
	44 cis-1,3-Dichloropropene	75.00	17.104	17.104	(1.128)	49235	20.00	20.22
$	46 Toluene-d8	98.00	17.550	17.550	(0.871)	80287	20.00	24.46
	47 Toluene	91.00	17.660	17.660	(0.877)	85864	20.00	21.71
	48 trans-1,3-Dichloropropene	75.00	18.037	18.037	(0.896)	42663	20.00	21.86
	4-Methyl-2-pentanone	43.00	17.332	17.332	(0.861)	37106	20.00	50.48 (M)
	Ethylmethacrylate	69.00	18.126	18.126	(0.900)	115842	50.00	65.22
	51 1,1,2-Trichloroethane	97.00	18.374	18.374	(1.211)	23187	20.00	20.84
	52 Tetrachloroethene	164.00	18.603	18.603	(0.924)	27941	20.00	24.24
	53 2-Hexanone	43.00	18.772	18.772	(0.932)	30647	20.00	23.11
	54 Chlorodibromomethane	129.00	19.089	19.089	(1.258)	28684	20.00	20.44 (M)
	55 1,2-Dibromoethane	107.00	19.317	19.317	(1.274)	86904	50.00	64.28
*	56 Chlorobenzene-d5	117.00	20.140	20.140	(1.000)	145098	50.00	
	57 Chlorobenzene	112.00	20.200	20.200	(1.003)	59969	20.00	22.93
	58 1,1,1,2-Tetrachloroethane	131.00	20.340	20.340	(1.010)	78225	50.00	78.16
	59 Ethylbenzene	106.00	20.369	20.369	(1.011)	27311	20.00	25.89
	60 m,p-xylene	91.00	20.588	20.588	(1.022)	163454	40.00	51.48
	61 Xylene (total)	91.00	21.362	21.362	(1.061)	84433	20.00	24.83
	62 Styrene	104.00	21.392	21.392	(1.062)	64260	20.00	25.26
	63 Bromoform	173.00	21.799	21.799	(1.437)	20349	20.00	19.81
	64 Bromofluorobenzene	95.00	22.414	22.414	(1.113)	46842	20.00	24.77
	65 1,2,3-Trichloropropane	75.00	22.811	22.811	(1.133)	108272	50.00	67.46
	66 1,1,2,2-Tetrachloroethane	83.00	22.711	22.711	(1.128)	37283	20.00	22.43
	67 trans-1,4-Dichloro-2-butene	89.00	22.821	22.821	(1.133)	17529	50.00	71.19
	68 Pentachloroethane	167.00	23.991	23.991	(1.191)	45697	50.00	69.38
	69 1,3-Dichlorobenzene	146.00	24.636	24.636	(1.223)	54518	20.00	24.25
	70 1,4-Dichlorobenzene	146.00	24.815	24.815	(1.232)	54385	20.00	24.47
	71 1,2-Dichlorobenzene	146.00	25.599	25.599	(1.271)	52417	20.00	24.51
	72 1,2-dibromo-3-chloropropane	157.00	27.345	27.345	(1.358)	20925	50.00	61.90

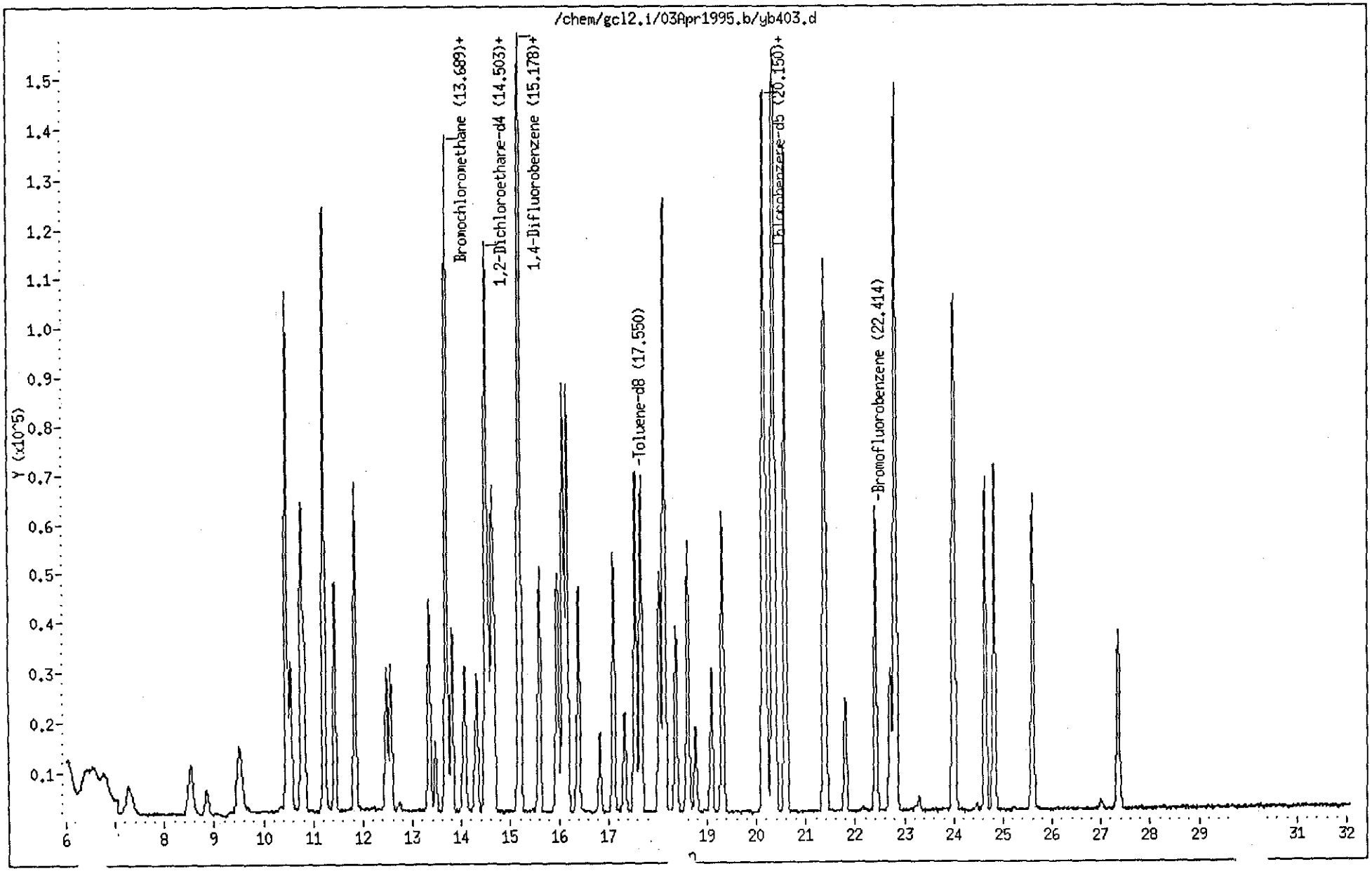
Flag Legend

- Compound response manually integrated.

Data File: /chem/gcl2.i/03Apr1995.b/yb403.d
Date : 03-APR-1995 12:52
Client ID:
Sample Info: STD20+A+N
Purge Volume: 5.0
Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/03Apr1995a.b/yc403.d
Lab Smp Id:
Inj Date : 03-APR-1995 13:36
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : STD100+A+N BxA403
Misc Info : GCL#2,DIL=1,5MLOFW+5ULIS+10ULSS+5UL256,257,207,251+4UL
Comment :
Method : /chem/gcl2.i/03Apr1995a.b/8240w2.m
Meth Date : 03-Apr-1995 20:42 kruedinm Quant Type: ISTD
Cal Date : 03-APR-1995 10:34 Cal File: ya403.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * 1/Vo

Name	Value	Description
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1	Dichlorodifluoromethane	85.00	5.400	5.400	(0.394)	218256	100.0	105.9(M)
2	Chloromethane	50.00	6.640	6.640	(0.485)	195921	100.0	97.81
3	Vinyl Chloride	62.00	7.334	7.334	(0.535)	178735	100.0	99.23
4	Bromomethane	94.00	8.554	8.554	(0.624)	134914	100.0	101.0
5	Chloroethane	64.00	8.869	8.869	(0.647)	81556	100.0	99.76
6	Trichlorofluoromethane	101.00	9.484	9.484	(0.692)	80276	100.0	68.53
10	Acrolein	56.00	10.496	10.496	(0.766)	634145	4000	3990
11	1,1-Dichloroethene	96.00	10.546	10.546	(0.770)	92589	100.0	107.9
12	Iodomethane	142.00	10.774	10.774	(0.786)	372112	200.0	196.0
13	Acetone	43.00	10.824	10.824	(0.790)	38774	100.0	80.47
14	Carbon Disulfide	76.00	10.824	10.824	(0.790)	372739	100.0	105.7
15	3-Chloropropene	76.00	11.221	11.221	(0.819)	113230	200.0	200.4
16	Acetonitrile	41.00	11.221	11.221	(0.819)	635222	800.0	781.0
17	Methylene Chloride	84.00	11.449	11.449	(0.836)	131996	100.0	103.7
18	Acrylonitrile	53.00	11.886	11.886	(0.867)	197313	800.0	794.2
19	1,1-Dichloroethane	63.00	12.491	12.491	(0.912)	305336	100.0	105.4
20	Vinyl acetate	43.00	12.581	12.581	(0.829)	469004	100.0	107.5
21	1,2-Dichloroethene (total)	96.00	13.345	13.345	(0.974)	247955	200.0	211.0(M)
	cis-1,2-Dichloroethene	96.00	13.345	13.345	(0.974)	148784	100.0	105.7
	2-Butanone	43.00	13.394	13.394	(0.978)	83795	100.0	93.51
25	Propionitrile	54.00	13.503	13.503	(0.890)	108669	800.0	822.4
26	Methacrylonitrile	41.00	13.702	13.702	(1.000)	216061	200.0	200.2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	27 Bromochloromethane	127.80	13.702	13.702	(1.000)	34999	50.00	
	28 Chloroform	83.00	13.821	13.821	(1.009)	256430	100.0	104.8
	29 1,1,1-Trichloroethane	97.00	14.070	14.070	(0.927)	204328	100.0	105.9
	30 Carbon Tetrachloride	116.80	14.308	14.308	(0.943)	175380	100.0	105.7
	32 Isobutanol	43.00	14.546	14.546	(0.959)	437130	8000	8393
$	33 1,2-Dichloroethane-d4	65.00	14.556	14.556	(1.062)	137790	100.0	93.07
	34 Benzene	78.00	14.626	14.626	(0.964)	440302	100.0	114.0
	35 1,2-Dichloroethane	62.00	14.666	14.666	(1.070)	205069	100.0	106.8
*	36 1,4-Difluorobenzene	114.00	15.172	15.172	(1.000)	174780	50.00	
	37 Crotononitrile	67.00	15.202	15.202	(1.002)	96755	800.0	815.1
	38 Trichloroethene	130.00	15.589	15.589	(1.027)	149296	100.0	105.2
	39 1,2-Dichloropropane	63.00	15.956	15.956	(1.052)	179727	100.0	106.9
	40 Methylmethacrylate	41.00	16.076	16.076	(1.060)	371711	200.0	198.3
	41 Dibromomethane	174.00	16.155	16.155	(1.065)	189794	200.0	195.9
	42 Bromodichloromethane	83.00	16.384	16.384	(1.080)	221244	100.0	105.1
	43 2-Chloroethylvinylether	63.00	16.820	16.820	(1.109)	70527	100.0	107.0
	44 cis-1,3-Dichloropropene	75.00	17.098	17.098	(1.127)	258729	100.0	105.9
$	46 Toluene-d8	98.00	17.536	17.536	(0.871)	346611	100.0	109.0
	47 Toluene	91.00	17.655	17.655	(0.877)	452680	100.0	118.2
	48 trans-1,3-Dichloropropene	75.00	18.022	18.022	(0.895)	214392	100.0	113.4
	4-Methyl-2-pentanone	43.00	17.327	17.327	(0.861)	196027	100.0	185.6 (M)
	Ethylmethacrylate	69.00	18.122	18.122	(0.900)	369174	200.0	214.6
	51 1,1,2-Trichloroethane	97.00	18.360	18.360	(1.210)	115214	100.0	103.2
	52 Tetrachloroethene	164.00	18.599	18.599	(0.924)	123837	100.0	110.9
	53 2-Hexanone	43.00	18.767	18.767	(0.932)	134035	100.0	104.4
	54 Chlorodibromomethane	129.00	19.075	19.075	(1.257)	145549	100.0	103.4
	55 1,2-Dibromoethane	107.00	19.304	19.304	(1.272)	262713	200.0	193.6
*	56 Chlorobenzene-d5	117.00	20.127	20.127	(1.000)	140521	50.00	
	57 Chlorobenzene	112.00	20.187	20.187	(1.003)	285664	100.0	112.8
	58 1,1,1,2-Tetrachloroethane	131.00	20.326	20.326	(1.010)	199748	200.0	206.1
	59 Ethylbenzene	106.00	20.366	20.366	(1.012)	116227	100.0	113.8
	60 m,p-xylene	91.00	20.585	20.585	(1.023)	692249	200.0	225.1
	61 Xylene (total)	91.00	21.349	21.349	(1.061)	369126	100.0	112.1
	62 Styrene	104.00	21.389	21.389	(1.063)	273274	100.0	110.9
	63 Bromoform	173.00	21.786	21.786	(1.436)	106349	100.0	103.2
$	64 Bromofluorobenzene	95.00	22.401	22.401	(1.113)	195678	100.0	106.8
	65 1,2,3-Trichloropropane	75.00	22.799	22.799	(1.133)	321629	200.0	206.9
	66 1,1,2,2-Tetrachloroethane	83.00	22.699	22.699	(1.128)	180040	100.0	111.8
	67 trans-1,4-Dichloro-2-butene	89.00	22.809	22.809	(1.133)	49788	200.0	208.8
	68 Pentachloroethane	167.00	23.990	23.990	(1.192)	133917	200.0	209.9
	69 1,3-Dichlorobenzene	146.00	24.625	24.625	(1.224)	240008	100.0	110.2
	70 1,4-Dichlorobenzene	146.00	24.815	24.815	(1.233)	238481	100.0	110.8
	71 1,2-Dichlorobenzene	146.00	25.588	25.588	(1.271)	227669	100.0	109.9
	72 1,2-dibromo-3-chloropropane	157.00	27.344	27.344	(1.359)	68079	200.0	208.0

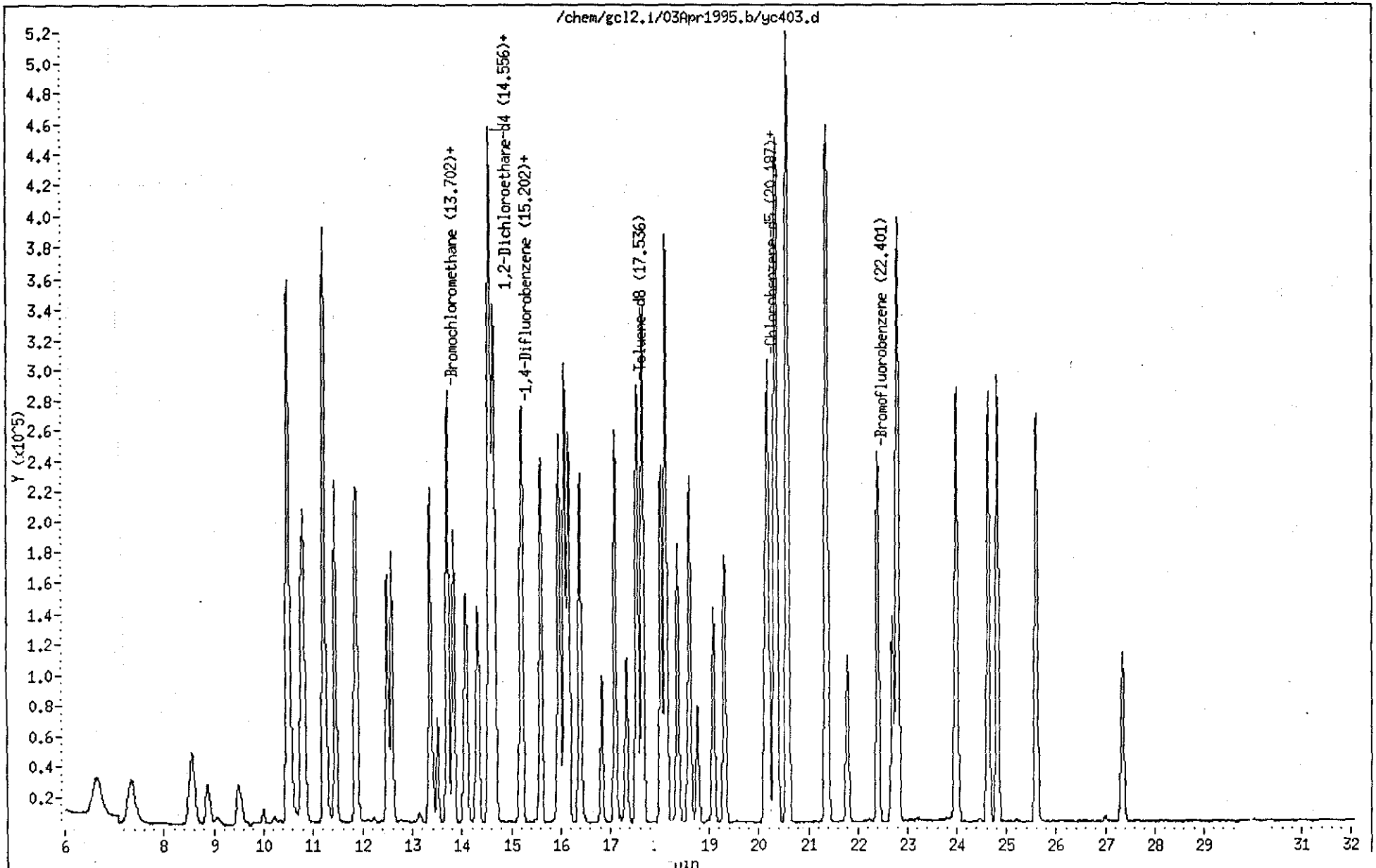
Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcl2.i/03Apr1995.b/yc403.d
Date : 03-APR-1995 13:36
Client ID:
Sample Info: STD100+A+N
Purge Volume: 5.0
Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/03Apr1995a.b/yd403.d
Lab Smp Id:
Inj Date : 03-APR-1995 14:21
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : STD150 BXA403
Misc Info : GCL#2,DIL=1,5MLOFW+5ULIS+15ULSS+7.5UL256,257,207,251+6
Comment :
Method : /chem/gcl2.i/03Apr1995a.b/8240w2.m
Meth Date : 03-Apr-1995 20:42 kruedinm Quant Type: ISTD
Cal Date : 03-APR-1995 10:34 Cal File: ya403.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	Dichlorodifluoromethane	85.00	5.400	5.400	(0.394)	285150	150.0	134.4 (M)
	Chloromethane	50.00	6.650	6.650	(0.486)	295684	150.0	143.4
3	Vinyl Chloride	62.00	7.334	7.334	(0.536)	271659	150.0	146.5
4	Bromomethane	94.00	8.544	8.544	(0.624)	201680	150.0	146.6
5	Chloroethane	64.00	8.850	8.850	(0.646)	119794	150.0	142.3
6	Trichlorofluoromethane	101.00	9.475	9.475	(0.692)	108388	150.0	89.89
10	Acrolein	56.00	10.477	10.477	(0.765)	883786	6000	5402
11	1,1-Dichloroethene	96.00	10.517	10.517	(0.768)	117702	150.0	133.3 (M)
12	Iodomethane	142.00	10.745	10.745	(0.785)	529610	300.0	271.0 (M)
13	Acetone	43.00	10.815	10.815	(0.790)	53328	150.0	107.5
14	Carbon Disulfide	76.00	10.795	10.795	(0.788)	510626	150.0	140.6
15	3-Chloropropene	76.00	11.202	11.202	(0.818)	159657	300.0	274.5 (M)
16	Acetonitrile	41.00	11.212	11.212	(0.819)	874632	1200	1044 (M)
17	Methylene Chloride	84.00	11.430	11.430	(0.835)	189169	150.0	144.4
18	Acrylonitrile	53.00	11.877	11.877	(0.867)	301334	1200	1178
19	1,1-Dichloroethane	63.00	12.482	12.482	(0.912)	452308	150.0	151.7
20	Vinyl acetate	43.00	12.571	12.571	(0.829)	722939	150.0	160.9
21	1,2-Dichloroethene (total)	96.00	13.335	13.335	(0.974)	324081	300.0	267.9 (M)
22	cis-1,2-Dichloroethene	96.00	13.335	13.335	(0.974)	215440	150.0	148.7
23	2-Butanone	43.00	13.405	13.405	(0.979)	128540	150.0	139.3
25	Propionitrile	54.00	13.504	13.504	(0.891)	174888	1200	1285 (M)
26	Methacrylonitrile	41.00	13.703	13.703	(1.001)	326209	300.0	293.7 (M)
* 27	Bromochloromethane	127.80	13.693	13.693	(1.000)	36029	50.00	
28	Chloroform	83.00	13.812	13.812	(1.009)	373748	150.0	148.4
29	1,1,1-Trichloroethane	97.00	14.061	14.061	(0.927)	294136	150.0	148.0
[illegible]	Carbon Tetrachloride	116.80	14.299	14.299	(0.943)	253634	150.0	148.5
	Isobutanol	43.00	14.587	14.587	(0.962)	607639	12000	11330 (M)
$ [illegible]	1,2-Dichloroethane-d4	65.00	14.547	14.547	(1.062)	206242	150.0	135.3
34	Benzene	78.00	14.627	14.627	(0.965)	551907	150.0	138.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
35	1,2-Dichloroethane	62.00	14.667	14.667	(1.071)	283336	150.0	143.4
* 36	1,4-Difluorobenzene	114.00	15.163	15.163	(1.000)	179993	50.00	
37	Crotononitrile	67.00	15.213	15.213	(1.003)	153668	1200	1257 (M)
38	Trichloroethene	130.00	15.580	15.580	(1.028)	212143	150.0	145.2
39	1,2-Dichloropropane	63.00	15.957	15.957	(1.052)	264237	150.0	152.6
40	Methylmethacrylate	41.00	16.077	16.077	(1.060)	470083	300.0	243.5 (M)
41	Dibromomethane	174.00	16.156	16.156	(1.066)	268437	300.0	269.1
42	Bromodichloromethane	83.00	16.385	16.385	(1.081)	319413	150.0	147.4
43	2-Chloroethylvinylether	63.00	16.822	16.822	(1.109)	106798	150.0	157.3
44	cis-1,3-Dichloropropene	75.00	17.100	17.100	(1.128)	372551	150.0	148.1
$ 46	Toluene-d8	98.00	17.537	17.537	(0.871)	501562	150.0	155.8
47	Toluene	91.00	17.656	17.656	(0.877)	625022	150.0	161.1
48	trans-1,3-Dichloropropene	75.00	18.024	18.024	(0.895)	309703	150.0	161.8
49	4-Methyl-2-pentanone	43.00	17.328	17.328	(0.860)	303639	150.0	212.6 (M)
50	Ethylmethacrylate	69.00	18.133	18.133	(0.900)	538387	300.0	309.1 (M)
51	1,1,2-Trichloroethane	97.00	18.372	18.372	(1.212)	168473	150.0	146.5
52	Tetrachloroethene	164.00	18.610	18.610	(0.924)	173580	150.0	153.5
53	2-Hexanone	43.00	18.779	18.779	(0.932)	206907	150.0	159.1
54	Chlorodibromomethane	129.00	19.087	19.087	(1.259)	214751	150.0	148.1 (M)
55	1,2-Dibromoethane	107.00	19.315	19.315	(1.274)	377934	300.0	270.5 (M)
*	Chlorobenzene-d5	117.00	20.139	20.139	(1.000)	142288	50.00	
	Chlorobenzene	112.00	20.189	20.189	(1.002)	401718	150.0	156.6
58	1,1,1,2-Tetrachloroethane	131.00	20.338	20.338	(1.010)	262158	300.0	267.1
59	Ethylbenzene	106.00	20.378	20.378	(1.012)	149527	150.0	144.6
60	m,p-xylene	91.00	20.587	20.587	(1.022)	912074	300.0	292.9 (M)
61	Xylene (total)	91.00	21.361	21.361	(1.061)	498756	150.0	149.6 (M)
62	Styrene	104.00	21.401	21.401	(1.063)	369718	150.0	148.2
63	Bromoform	173.00	21.798	21.798	(1.438)	160615	150.0	151.3
$ 64	Bromofluorobenzene	95.00	22.414	22.414	(1.113)	276758	150.0	149.2 (M)
65	1,2,3-Trichloropropane	75.00	22.812	22.812	(1.133)	475630	300.0	302.2
66	1,1,2,2-Tetrachloroethane	83.00	22.712	22.712	(1.128)	262475	150.0	161.0
67	trans-1,4-Dichloro-2-butene	89.00	22.822	22.822	(1.133)	70437	300.0	291.7 (M)
68	Pentachloroethane	167.00	23.994	23.994	(1.191)	190219	300.0	294.5 (M)
69	1,3-Dichlorobenzene	146.00	24.639	24.639	(1.223)	338889	150.0	153.7
70	1,4-Dichlorobenzene	146.00	24.818	24.818	(1.232)	330020	150.0	151.4
71	1,2-Dichlorobenzene	146.00	25.602	25.602	(1.271)	322000	150.0	153.6
72	1,2-dibromo-3-chloropropane	157.00	27.338	27.338	(1.357)	106624	300.0	321.6

QC Flag Legend

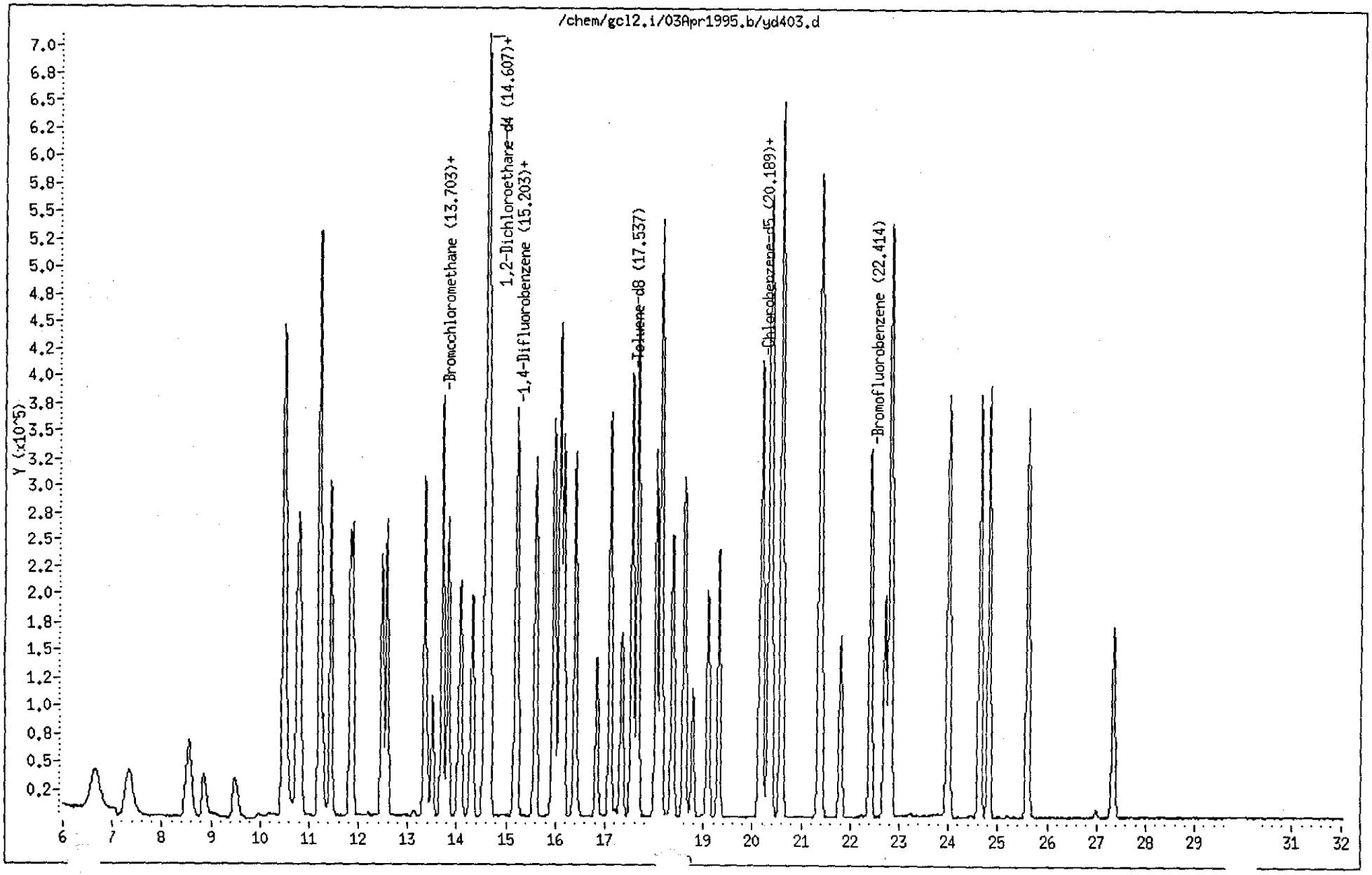
M - Compound response manually integrated.

Data File: /chem/gcl2.i/03Apr1995.b/yd403.d
Date : 03-APR-1995 14:21
Client ID:
Sample Info: STD150 BXA403

Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/03Apr1995a.b/ye403.d
Lab Smp Id:
Inj Date : 03-APR-1995 15:06
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : STD200 BXA403
Misc Info : GCL#2,DIL=1,5MLOFW+5ULIS+20ULSS+10UL256,257,207,251+8U
Comment :
Method : /chem/gcl2.i/03Apr1995a.b/8240w2.m
Meth Date : 03-Apr-1995 20:42 kruedinm Quant Type: ISTD
Cal Date : 03-APR-1995 10:34 Cal File: ya403.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	Dichlorodifluoromethane	85.00	5.334	5.334	(0.390)	398302	200.0	184.5(M)
2	Chloromethane	50.00	6.574	6.574	(0.480)	407484	200.0	194.2
3	Vinyl Chloride	62.00	7.289	7.289	(0.532)	369299	200.0	195.7
4	Bromomethane	94.00	8.509	8.509	(0.622)	270427	200.0	193.2
5	Chloroethane	64.00	8.824	8.824	(0.645)	158965	200.0	185.6
6	Trichlorofluoromethane	101.00	9.449	9.449	(0.690)	148485	200.0	121.0
10	Acrolein	56.00	10.451	10.451	(0.764)	974921	8000	5855
11	1,1-Dichloroethene	96.00	10.491	10.491	(0.766)	135115	200.0	150.3
12	Iodomethane	142.00	10.720	10.720	(0.783)	667643	400.0	335.6(M)
13	Acetone	43.00	10.809	10.809	(0.790)	73184	200.0	145.0
14	Carbon Disulfide	76.00	10.770	10.770	(0.787)	650156	200.0	176.0
15	3-Chloropropene	76.00	11.186	11.186	(0.817)	197928	400.0	334.4(M)
16	Acetonitrile	41.00	11.186	11.186	(0.817)	1063527	1600	1248(M)
17	Methylene Chloride	84.00	11.415	11.415	(0.834)	237336	200.0	178.0
18	Acrylonitrile	53.00	11.871	11.871	(0.867)	377141	1600	1449
19	1,1-Dichloroethane	63.00	12.467	12.467	(0.911)	585128	200.0	192.8
20	Vinyl acetate	43.00	12.566	12.566	(0.829)	973658	200.0	208.8
21	1,2-Dichloroethene (total)	96.00	13.330	13.330	(0.974)	459294	400.0	373.1(M)
22	cis-1,2-Dichloroethene	96.00	13.330	13.330	(0.974)	279288	200.0	189.4
23	2-Butanone	43.00	13.400	13.400	(0.979)	176546	200.0	188.0
25	Propionitrile	54.00	13.499	13.499	(0.891)	228526	1600	1618(M)
26	Methacrylonitrile	41.00	13.698	13.698	(1.001)	435765	400.0	385.5(M)
27	Bromochloromethane	127.80	13.688	13.688	(1.000)	36668	50.00	
28	Chloroform	83.00	13.807	13.807	(1.009)	471142	200.0	183.8
29	1,1,1-Trichloroethane	97.00	14.055	14.055	(0.927)	373602	200.0	181.2
	Carbon Tetrachloride	116.80	14.294	14.294	(0.943)	323865	200.0	182.7
	Isobutanol	43.00	14.612	14.612	(0.964)	687334	16000	12350(M)
33	1,2-Dichloroethane-d4	65.00	14.542	14.542	(1.062)	277893	200.0	179.2
34	Benzene	78.00	14.612	14.612	(0.964)	607848	200.0	147.3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	35 1,2-Dichloroethane	62.00	14.662	14.662	(1.071)	317869	200.0	158.0
*	36 1,4-Difluorobenzene	114.00	15.158	15.158	(1.000)	186790	50.00	
	37 Crotononitrile	67.00	15.208	15.208	(1.003)	195401	1600	1540 (M)
	38 Trichloroethene	130.00	15.575	15.575	(1.028)	264783	200.0	174.6
	39 1,2-Dichloropropane	63.00	15.942	15.942	(1.052)	338549	200.0	188.4
	40 Methylmethacrylate	41.00	16.062	16.062	(1.060)	593045	400.0	296.0 (M)
	41 Dibromomethane	174.00	16.141	16.141	(1.065)	321935	400.0	311.0
	42 Bromodichloromethane	83.00	16.380	16.380	(1.081)	404286	200.0	179.8
	43 2-Chloroethylvinylether	63.00	16.807	16.807	(1.109)	143331	200.0	203.5
	44 cis-1,3-Dichloropropene	75.00	17.075	17.075	(1.126)	476671	200.0	182.6
$	46 Toluene-d8	98.00	17.523	17.523	(0.872)	632919	200.0	188.2
	47 Toluene	91.00	17.632	17.632	(0.877)	779076	200.0	192.3
	48 trans-1,3-Dichloropropene	75.00	18.000	18.000	(0.895)	395685	200.0	197.9
	49 4-Methyl-2-pentanone	43.00	17.314	17.314	(0.861)	410195	200.0	220.5 (M)
	50 Ethylmethacrylate	69.00	18.109	18.109	(0.901)	663792	400.0	364.8 (M)
	51 1,1,2-Trichloroethane	97.00	18.338	18.338	(1.210)	216291	200.0	181.2
	52 Tetrachloroethene	164.00	18.576	18.576	(0.924)	219064	200.0	185.5
	53 2-Hexanone	43.00	18.755	18.755	(0.933)	278368	200.0	204.9
	54 Chlorodibromomethane	129.00	19.063	19.063	(1.258)	278608	200.0	185.1 (M)
	55 1,2-Dibromoethane	107.00	19.282	19.282	(1.272)	469982	400.0	324.2 (M)
	Chlorobenzene-d5	117.00	20.105	20.105	(1.000)	148655	50.00	
	Chlorobenzene	112.00	20.165	20.165	(1.003)	508274	200.0	189.7
	58 1,1,1,2-Tetrachloroethane	131.00	20.304	20.304	(1.010)	307706	400.0	300.1
	59 Ethylbenzene	106.00	20.354	20.354	(1.012)	173053	200.0	160.1
	60 m,p-xylene	91.00	20.553	20.553	(1.022)	1087929	400.0	334.4 (M)
	61 Xylene (total)	91.00	21.318	21.318	(1.060)	613153	200.0	176.0 (M)
	62 Styrene	104.00	21.367	21.367	(1.063)	449521	200.0	172.4
	63 Bromoform	173.00	21.765	21.765	(1.436)	213833	200.0	194.1
$	64 Bromofluorobenzene	95.00	22.371	22.371	(1.113)	355275	200.0	183.4 (M)
	65 1,2,3-Trichloropropane	75.00	22.769	22.769	(1.132)	577170	400.0	351.0
	66 1,1,2,2-Tetrachloroethane	83.00	22.669	22.669	(1.128)	344168	200.0	202.1
	67 trans-1,4-Dichloro-2-butene	89.00	22.789	22.789	(1.133)	85888	400.0	340.5 (M)
	68 Pentachloroethane	167.00	23.961	23.961	(1.192)	235667	400.0	349.2 (M)
	69 1,3-Dichlorobenzene	146.00	24.597	24.597	(1.223)	421147	200.0	182.9
	70 1,4-Dichlorobenzene	146.00	24.776	24.776	(1.232)	414455	200.0	182.0
	71 1,2-Dichlorobenzene	146.00	25.560	25.560	(1.271)	401212	200.0	183.1
	72 1,2-dibromo-3-chloropropane	157.00	27.296	27.296	(1.358)	139692	400.0	403.4

QC Flag Legend

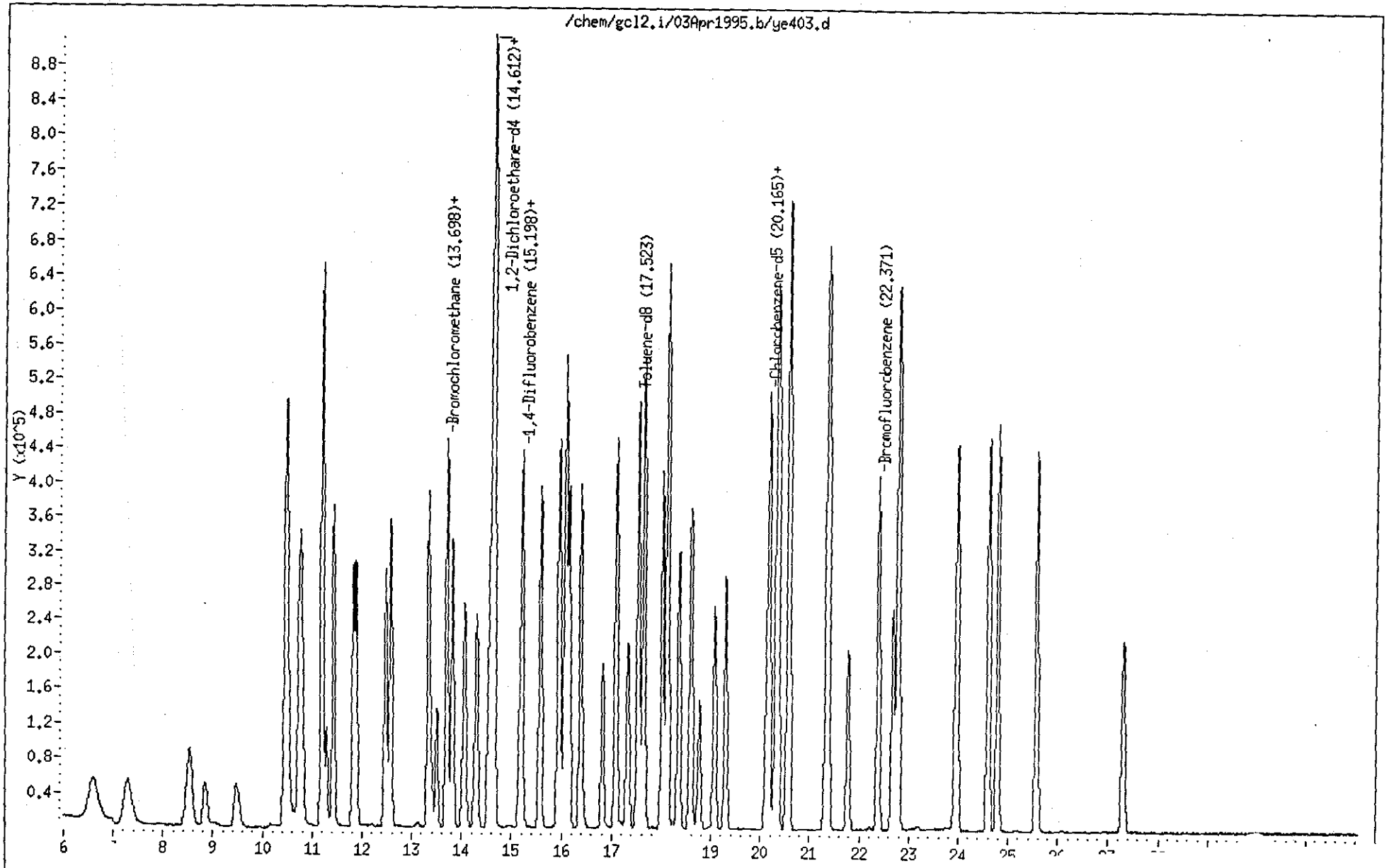
M - Compound response manually integrated.

Data File: /chem/gcl2.i/03Apr1995.b/ye403.d
Date : 03-APR-1995 15:06
Client ID:
Sample Info: STD200 BXA403

Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



6A

VOLATILE ORGANICS INTITIAL CALIBRATION DATA

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy RFW Lot: 9504G211

Instrument ID: GCL#6 Calibration Date(s): 03/29/95 03/29/95

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20+= F0B329 RRF50+= F0C329
RRF100= F0D329 RRF150= F0E329 RRF200= F0G329

COMPOUND	RRF20+	RRF50+	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane #	0.857	0.771	0.740	0.729	0.693	0.758	8.2#
Bromomethane	1.653	1.562	1.567	1.577	1.383	1.549	6.4
Vinyl chloride *	1.048	0.949	0.913	0.895	0.845	0.930	8.2*
Chloroethane	0.582	0.546	0.543	0.546	0.493	0.542	5.9
Methylene Chloride	1.713	1.671	1.591	1.500	1.423	1.580	7.6
Acetone	0.237	0.373	0.399	0.113	0.052	0.235	65.5
Carbon Disulfide	2.994	2.707	2.562	0.942	1.634	2.168	39.4
1,1-Dichloroethene *	1.162	1.057	1.015	0.969	0.871	1.015	10.6*
1,1-Dichloroethane #	2.107	1.863	1.870	1.864	1.733	1.887	7.2#
1,2-Dichloroethene (total)	1.476	1.332	1.246	1.251	1.057	1.272	12.0
Chloroform *	2.955	2.882	2.796	2.852	2.472	2.791	6.7*
1,2-Dichloroethane	1.448	1.514	1.487	1.518	1.355	1.464	4.6
2-Butanone	0.264	0.553	0.653	0.697	0.367	0.507	36.6
1,1,1-Trichloroethane	0.627	0.642	0.608	0.622	0.558	0.611	5.3
Carbon Tetrachloride	0.579	0.591	0.572	0.597	0.528	0.573	4.7
Vinyl acetate	1.419	1.702	1.752	2.209	1.786	1.774	16.0
Bromodichloromethane	0.814	0.920	0.903	0.903	0.764	0.861	7.9
1,2-Dichloropropane *	0.312	0.339	0.327	0.332	0.294	0.321	5.6*
cis-1,3-Dichloropropene	0.515	0.589	0.588	0.591	0.507	0.558	7.7
Trichloroethene	0.468	0.485	0.485	0.486	0.473	0.479	1.8
Dibromochloromethane	0.603	0.768	0.715	0.620	0.546	0.650	13.8
1,1,2-Trichloroethane	0.310	0.391	0.377	0.350	0.308	0.347	11.0
Benzene	0.804	0.829	0.821	0.838	0.747	0.808	4.5
trans-1,3-Dichloropropene	0.402	0.502	0.506	0.500	0.424	0.467	10.7
Bromoform #	0.430	0.596	0.453	0.339	0.285	0.421	28.4#
4-Methyl-2-pentanone	0.181	0.394	0.472	0.488	0.308	0.369	34.5
2-Hexanone	0.109	0.275	0.329	0.292	0.202	0.242	36.1
Tetrachloroethene	0.576	0.836	0.998	0.766	0.629	0.761	22.1
1,1,2,2-Tetrachloroethane #	0.594	0.799	0.607	0.664	0.413	0.616	22.7#
Toluene *	0.685	0.710	0.758	0.918	0.761	0.766	11.8*
Chlorobenzene #	0.919	0.942	0.921	0.973	0.906	0.932	2.8#
Ethylbenzene *	0.384	0.376	0.360	0.392	0.349	0.372	4.7*
Styrene	0.834	0.856	0.758	0.730	0.657	0.767	10.5
Xylene (total)	1.086	1.070	0.915	0.901	0.813	0.957	12.3
Acrolein	4.188	7.204	8.218	7.422	5.103	6.427	26.5
Acrylonitrile	1.010	1.966	2.359	2.512	1.594	1.888	32.1
Trichlorofluoromethane	3.214	2.676	2.624	2.594	2.474	2.716	10.6

6C

VOLATILE ORGANICS INTITIAL CALIBRATION DATA

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy RFW Lot: 9504G211

Instrument ID: GCL#6 Calibration Date(s): 03/29/95 03/29/95

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20+= F0B329 RRF50+= F0C329
RRF100= F0D329 RRF150= F0E329 RRF200= F0G329

COMPOUND	RRF20+	RRF50+	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	2.362	2.126	2.026	1.915	1.872	2.060	9.5
Acetonitrile	3.329	3.088	3.100	2.678	2.498	2.939	11.6
Iodomethane	.7113	7.517	7.260	4.955	3.445	6.778	40.9
Propionitrile (Ethyl Cyanide)	0.092	0.229	0.296	0.293	0.151	0.212	42.1
3-Chloropropene	1.275	1.058	1.020	0.939	0.864	1.031	15.1
Methacrylonitrile	0.770	1.017	1.163	1.260	0.791	1.000	21.8
Dibromomethane	1.044	1.066	1.122	1.146	0.907	1.057	8.8
Isobutyl alcohol	0.515	1.210	1.013	0.711	0.293	0.748	49.4
1,2-Dibromoethane	1.816	1.844	2.068	2.298	1.842	1.974	10.5
1,1,1,2-Tetrachloroethane	1.484	1.097	0.920	0.904	0.793	1.040	26.1
1,2,3-Trichloropropane	1.404	1.569	1.370	1.225	0.796	1.273	23.0
trans-1,4-Dichloro-2-butene	0.089	0.250	0.239	0.204	0.138	0.184	37.5
1,2-Dibromo-3-chloropropane	0.389	0.227	0.162	0.096	0.089	0.193	63.9
2-Chloro-1,3-Butadiene							
Methylmethacrylate	0.590	0.778	0.843	0.866	0.600	0.735	18.0
Ethylmethacrylate	0.806	0.952	0.973	0.888	0.686	0.861	13.7
Pentachloroethane	1.060	0.369	0.168	0.327	0.246	0.434	82.6
Toluene-d8	1.082	1.132	1.190	1.486	1.329	1.244	13.2
4-Bromofluorobenzene	0.892	0.911	0.729	0.647	0.667	0.769	16.2
1,2-Dichloroethane-d4	1.305	1.404	1.364	1.387	1.275	1.347	4.1

Response Factor Report inst #6

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Mar 29 17:52:15 1995
Response via : Continuing Calibration

Calibration Files
1 =FOB329.D 2 =FOC329.D 3 =FOD329.D
4 =FOE329.D 5 =FOG329.D

		Compound	1	2	3	4	5	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------						
2)		Dichlorodifluorometha	2.362	2.126	2.026	1.915	1.872	2.1	9.51
3)	T	Chloromethane	0.857	0.771	0.740	0.729	0.693	0.8	8.17
4)	T	Bromomethane	1.653	1.563	1.567	1.577	1.383	1.5	6.43
5)	T	Vinyl Chloride	1.048	0.949	0.913	0.895	0.845	0.9	8.18
6)	T	Chloroethane	0.582	0.546	0.543	0.546	0.493	0.5	5.89
7)		Trichlorofluoromethan	3.214	2.676	2.624	2.594	2.474	2.7	10.60
8)		Acrolein	0.105	0.180	0.205	0.186	0.128	0.2	26.46
9)		Iodomethane	4.285	3.758	3.630	2.478	1.722	3.2	32.94
10)	T	Acetone	0.237	0.373	0.399	0.113	0.051	0.2	65.51
11)	T	Carbon Disulfide	2.994	2.707	2.562	0.942	1.634	2.2	39.38
12)	M	1,1-Dichloroethene	1.162	1.057	1.015	0.969	0.871	1.0	10.59
13)	I	Methylene Chloride	1.713	1.671	1.591	1.500	1.423	1.6	7.56
14)		3-Chloropropene	0.510	0.529	0.510	0.470	0.432	0.5	7.97
15)		Acetonitrile	0.416	0.386	0.387	0.335	0.312	0.4	11.57
16)		Acrylonitrile	0.126	0.246	0.295	0.314	0.199	0.2	32.14
17)		Vinyl Acetate	1.419	1.702	1.752	2.209	1.786	1.8	15.96
18)	T	1,1-Dichloroethane	2.107	1.863	1.870	1.864	1.733	1.9	7.18
19)	T	1,2-Dichloroethene (t	1.476	1.332	1.246	1.251	1.057	1.3	11.94
20)		Methacrylonitrile	0.308	0.508	0.581	0.630	0.396	0.5	27.33
21)		2-Butanone	0.264	0.553	0.653	0.697	0.367	0.5	36.64
22)	T	Chloroform	2.955	2.882	2.796	2.852	2.472	2.8	6.72
23)	S	1,2-Dichloroethane-d4	1.305	1.404	1.364	1.387	1.275	1.3	4.09
24)	T	1,2-Dichloroethane	1.448	1.514	1.487	1.519	1.355	1.5	4.61
25)	I	1,4-Difluorobenzene	----------ISTD----------						
26)		Propionitrile	0.012	0.029	0.037	0.037	0.019	0.0	42.13
27)	T	1,1,1-Trichloroethane	0.627	0.642	0.608	0.622	0.558	0.6	5.26
28)	T	Carbon Tetrachloride	0.579	0.591	0.572	0.597	0.528	0.6	4.73
29)	T	Bromodichloromethane	0.814	0.920	0.903	0.903	0.764	0.9	7.91
30)		Isobutanol	0.006	0.015	0.013	0.009	0.004	0.0	49.38
31)		Crotononitrile	0.014	0.032	0.040	0.040	0.024	0.0	37.12
32)	T	1,2-Dichloropropane	0.312	0.339	0.327	0.332	0.294	0.3	5.63
33)	T	cis-1,3-Dichloroprope	0.515	0.589	0.588	0.591	0.507	0.6	7.72
34)	M	Trichloroethene	0.468	0.485	0.485	0.486	0.473	0.5	1.75
35)	M	Benzene	0.804	0.829	0.821	0.838	0.747	0.8	4.48
36)		Methylmethacrylate	0.236	0.389	0.421	0.433	0.300	0.4	23.86
37)		Dibromomethane	0.418	0.533	0.561	0.573	0.454	0.5	13.51
38)		Ethylmethacrylate	0.323	0.476	0.486	0.444	0.343	0.4	18.47
39)	T	Dibromochloromethane	0.603	0.768	0.715	0.620	0.546	0.7	13.80
40)	T	trans-1,3-Dichloropro	0.402	0.502	0.506	0.500	0.424	0.5	10.67
41)	T	1,1,2-Trichloroethane	0.310	0.391	0.377	0.350	0.308	0.3	10.97

(#) = Out of Range

Response Factor Report inst #6

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Mar 29 17:52:15 1995
Response via : Continuing Calibration

Calibration Files
1 =FOB329.D 2 =FOC329.D 3 =FOD329.D
4 =FOE329.D 5 =FOG329.D

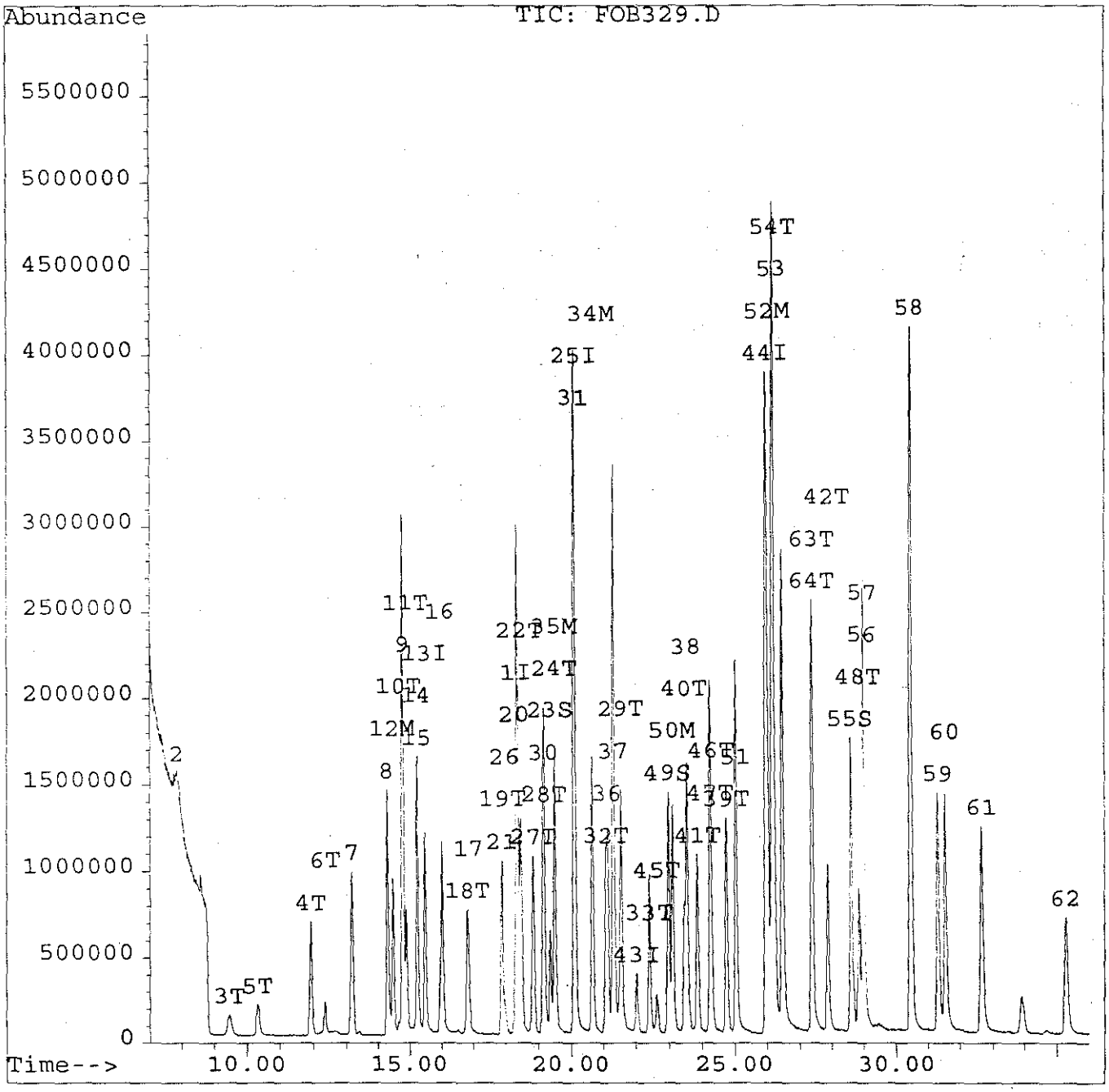
		Compound	1	2	3	4	5	Avg	%RSD
42)	T	Bromoform	0.430	0.597	0.453	0.339	0.285	0.4	28.42
43)	I	2-Chloroethylvinyleth	0.140	0.211	0.226	0.224	0.179	0.2	18.66
44)	I	Chlorobenzene-d5	----------ISTD----------						
45)	T	4-Methyl-2-Pentanone	0.181	0.394	0.472	0.489	0.308	0.4	34.45
46)	T	2-Hexanone	0.109	0.275	0.329	0.293	0.202	0.2	36.11
47)	T	Tetrachloroethene	0.576	0.836	0.998	0.766	0.629	0.8	22.12
48)	T	1,1,2,2-Tetrachloroet	0.594	0.799	0.607	0.664	0.413	0.6	22.66
49)	S	Toluene-d8	1.082	1.132	1.190	1.486	1.329	1.2	13.18
50)	M	Toluene	0.685	0.711	0.758	0.918	0.761	0.8	11.82
51)		1,2-Dibromoethane	0.727	0.922	1.034	1.149	0.921	1.0	16.49
52)	M	Chlorobenzene	0.919	0.942	0.921	0.973	0.906	0.9	2.79
53)		1,1,1,2-Tetrachloroet	0.594	0.548	0.460	0.452	0.397	0.5	16.19
54)	T	Ethylbenzene	0.384	0.377	0.360	0.392	0.349	0.4	4.71
55)	S	Bromofluorobenzene	0.892	0.911	0.729	0.647	0.667	0.8	16.20
56)		trans-1,4-Dichloro-2-	0.035	0.125	0.120	0.102	0.069	0.1	41.72
57)		1,2,3-Trichloropropan	0.561	0.785	0.685	0.612	0.398	0.6	23.73
58)		Pentachloroethane	0.424	0.185	0.084	0.163	0.123	0.2	68.13
59)		1,3-Dichlorobenzene	0.832	0.741	0.453	0.363	0.370	0.6	39.74
60)		1,4-Dichlorobenzene	0.909	0.815	0.488	0.416	0.357	0.6	41.67
61)		1,2-Dichlorobenzene	0.787	0.604	0.305	0.273	0.272	0.4	52.44
62)		1,2-Dibromo-3-chlorop	0.155	0.113	0.081	0.048	0.044	0.1	52.79
63)	T	Styrene	0.835	0.856	0.758	0.729	0.657	0.8	10.52
64)	T	Xylene (total)	1.087	1.070	0.915	0.901	0.813	1.0	12.29

#) = Out of Range

Quantitation Report

Data File : C:\HPCHEM\1\DATA\MAR2995\FOB329.D Vial: 3
Acq On : 29 Mar 95 1:02 pm Operator:
Sample : STD20++ FNA329 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS+2ULSS+1UL242,24 Multiplr: 1.00
Quant Time: Mar 29 13:54 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Tue Mar 28 08:58:36 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\MAR2995\FOB329.D Vial: 3
Acq On : 29 Mar 95 1:02 pm Operator:
Sample : STD20++ FNA329 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS+2ULSS+1UL242,24 Multiplr: 1.00
Quant Time: Mar 29 13:54 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Tue Mar 28 08:58:36 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	18.35	128	1890729	50.00	ug/l		0.06
25) 1,4-Difluorobenzene	20.11	114	7428115	50.00	ug/l		0.05
44) Chlorobenzene-d5	25.98	117	5918835	50.00	ug/l		-0.03
System Monitoring Compounds							%Recovery
23) 1,2-Dichloroethane-d4	19.37	65	986877	19.89	ug/l		39.77%
49) Toluene-d8	22.96	98	2561078	21.37	ug/l		42.75%
55) Bromofluorobenzene	28.58	95	2112824	20.02	ug/l		40.03%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	7.86	85	1786432	99.08	ug/l	m	79
3) Chloromethane	9.48	50	647852	41.70	ug/l	m	93
4) Bromomethane	11.92	94	1250317	28.81	ug/l		98
5) Vinyl Chloride	10.34	62	792795	36.57	ug/l		98
6) Chloroethane	12.37	64	440373	28.15	ug/l		96
7) Trichlorofluoromethane	13.17	101	2430642	27.85	ug/l		100
8) Acrolein	14.29	56	3166957	558.76	ug/l		94
9) Iodomethane	14.78	142	8100857	48.88	ug/l		99
10) Acetone	14.66	43	179361	12.36	ug/l	m	97
11) Carbon Disulfide	14.90	76	2264409	18.83	ug/l		100
12) 1,1-Dichloroethene	14.48	96	878570	19.42	ug/l		97
13) Methylene Chloride	15.48	84	1295579	18.82	ug/l		91
14) 3-Chloropropene	15.25	76	964608	43.63	ug/l	#	62
15) Acetonitrile	15.25	41	2517986	155.68	ug/l	#	86
16) Acrylonitrile	15.96	53	764076	81.13	ug/l		94
17) Vinyl Acetate	16.86	43	1073457	12.62	ug/l	#	93
18) 1,1-Dichloroethane	16.81	63	1593673	19.22	ug/l		99
19) 1,2-Dichloroethene (total)	17.90	96	2232267	40.39	ug/l	m	99
20) Methacrylonitrile	18.26	41	582387	29.46	ug/l	#	88
21) 2-Butanone	17.89	43	200004	9.56	ug/l	m	0
22) Chloroform	18.45	83	2234945	19.16	ug/l		97
24) 1,2-Dichloroethane	19.50	62	1095355	17.03	ug/l		99
26) Propionitrile	17.99	54	274230	69.68	ug/l	#	89
27) 1,1,1-Trichloroethane	18.83	97	1863206	17.97	ug/l		100
28) Carbon Tetrachloride	19.15	117	1720103	18.67	ug/l		98
29) Bromodichloromethane	21.55	83	2419398	16.95	ug/l		100
30) Isobutanol	19.16	43	1529235	644.67	ug/l		100
31) Crotononitrile	20.08	67	333021	69.98	ug/l		83
32) 1,2-Dichloropropane	21.07	63	926252	17.21	ug/l		97
33) cis-1,3-Dichloropropene	22.40	75	1529385	16.62	ug/l		97
34) Trichloroethene	20.65	130	1390292	18.78	ug/l		97
35) Benzene	19.51	78	2388530	18.20	ug/l		100
36) Methylmethacrylate	21.13	41	1751980	28.49	ug/l		94

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\MAR2995\FOB329.D Vial: 3
Acq On : 29 Mar 95 1:02 pm Operator:
Sample : STD20++ FNA329 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS+2ULSS+1UL242,24 Multiplr: 1.00
Quant Time: Mar 29 13:54 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Tue Mar 28 08:58:36 1995
Response via : Single Level Calibration

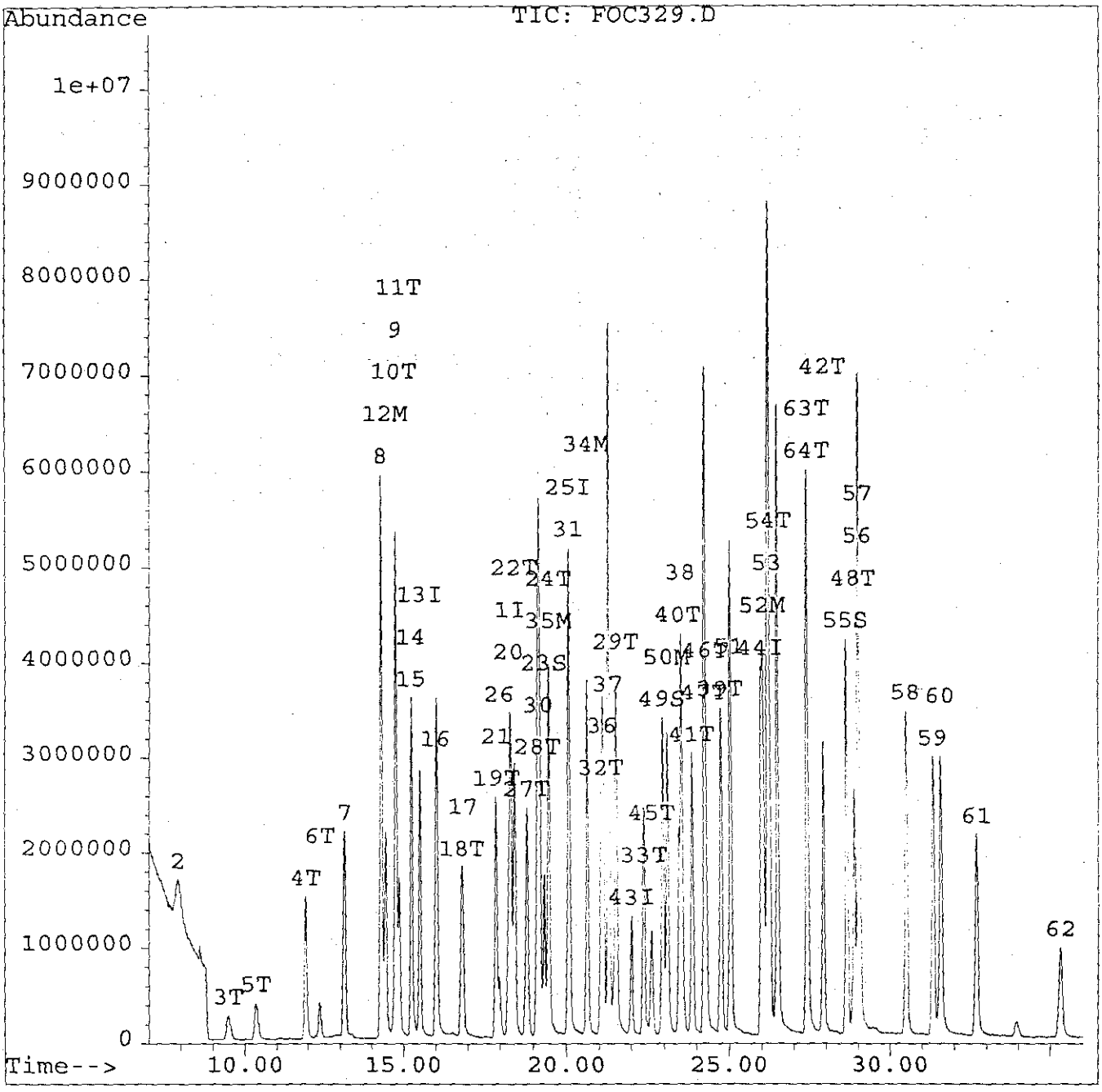
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Dibromomethane	21.32	174	3102202	37.40	ug/l		86
38)	Ethylmethacrylate	23.54	69	2395787	29.34	ug/l		88
39)	Dibromochloromethane	24.74	129	1791779	14.87	ug/l		99
40)	trans-1,3-Dichloropropene	23.46	75	1195262	14.94	ug/l		97
41)	1,1,2-Trichloroethane	23.86	97	919966	14.66	ug/l		98
42)	Bromoform	27.87	173	1276164	12.34	ug/l		99
43)	2-Chloroethylvinylether	22.02	63	415330	12.10	ug/l		92
45)	4-Methyl-2-Pentanone	22.62	43	428605	8.83	ug/l		97
46)	2-Hexanone	24.30	43	258929	7.55	ug/l		96
47)	Tetrachloroethene	24.25	164	1364290	19.45	ug/l		98
48)	1,1,2,2-Tetrachloroethane	28.83	83	1406583	12.54	ug/l		98
50)	Toluene	23.10	92	1622604	18.81	ug/l		93
51)	1,2-Dibromoethane	25.03	107	4300132	35.55	ug/l		96
52)	Chlorobenzene	26.04	112	2175703	18.51	ug/l		99
53)	1,1,1,2-Tetrachloroethane	26.18	131	3514117	47.15	ug/l		96
54)	Ethylbenzene	26.22	106	910263	19.37	ug/l	#	82
56)	trans-1,4-Dichloro-2-buten	28.95	89	209712	12.05	ug/l	#	1
57)	1,2,3-Trichloropropane	28.98	75	3322838	29.68	ug/l		99
58)	Pentachloroethane	30.46	167	2510167	53.96	ug/l		87
59)	1,3-Dichlorobenzene	31.30	146	1969783	18.81	ug/l		99
60)	1,4-Dichlorobenzene	31.54	146	2152685	18.63	ug/l	m	99
61)	1,2-Dichlorobenzene	32.65	146	1862579	20.52	ug/l		98
62)	1,2-Dibromo-3-chloropropan	35.28	157	919923	42.70	ug/l		88
63)	Styrene	27.39	104	1975810	18.43	ug/l		94
64)	Xylene (total)	27.38	91	2572351	19.28	ug/l		97

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\MAR2995\FOC329.D Vial: 4
Acq On : 29 Mar 95 1:43 pm Operator:
Sample : STD50++ FNA329 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS+5ULSS+2.5UL242, Multiplr: 1.00
Quant Time: Mar 29 14:33 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Tue Mar 28 08:58:36 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\MAR2995\FOC329.D Vial: 4
Acq On : 29 Mar 95 1:43 pm Operator:
Sample : STD50++ FNA329 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS+5ULSS+2.5UL242, Multiplr: 1.00
Quant Time: Mar 29 14:33 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Tue Mar 28 08:58:36 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	18.31	128	1932850	50.00	ug/l		0.02
25) 1,4-Difluorobenzene	20.07	114	6783624	50.00	ug/l		0.02
44) Chlorobenzene-d5	25.99	117	5559890	50.00	ug/l		-0.02
System Monitoring Compounds							%Recovery
23) 1,2-Dichloroethane-d4	19.33	65	2714156	53.50	ug/l		107.00%
49) Toluene-d8	22.94	98	6292720	55.91	ug/l		111.82%
55) Bromofluorobenzene	28.61	95	5062763	51.06	ug/l		102.12%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	7.93	85	4110026	222.97	ug/l	m	88
3) Chloromethane	9.50	50	1490264	93.84	ug/l		67
4) Bromomethane	11.91	94	3020150	68.07	ug/l		99
5) Vinyl Chloride	10.33	62	1834945	82.80	ug/l		96
6) Chloroethane	12.36	64	1055245	65.98	ug/l		97
7) Trichlorofluoromethane	13.13	101	5171350	57.96	ug/l		100
8) Acrolein	14.29	56	13924572	2403.23	ug/l		95
9) Iodomethane	14.76	142	14528374	85.75	ug/l		99
10) Acetone	14.71	43	720830	48.60	ug/l		99
11) Carbon Disulfide	14.87	76	5232934	42.57	ug/l		100
12) 1,1-Dichloroethene	14.44	96	2042704	44.16	ug/l		98
13) Methylene Chloride	15.51	84	3229912	45.89	ug/l		91
14) 3-Chloropropene	15.24	76	2045122	90.49	ug/l	#	72
15) Acetonitrile	15.24	41	5969531	361.04	ug/l	#	82
16) Acrylonitrile	15.99	53	3799807	394.69	ug/l		94
17) Vinyl Acetate	16.86	43	3290123	37.84	ug/l		94
18) 1,1-Dichloroethane	16.80	63	3600393	42.48	ug/l		97
19) 1,2-Dichloroethene (total)	17.87	96	5150630	91.15	ug/l	m	97
20) Methacrylonitrile	18.25	41	1965609	97.27	ug/l	#	90
21) 2-Butanone	17.89	43	1068647	49.95	ug/l	m	1
22) Chloroform	18.42	83	5570014	46.71	ug/l		99
24) 1,2-Dichloroethane	19.47	62	2926825	44.51	ug/l		98
26) Propionitrile	17.98	54	1555486	432.80	ug/l	#	98
27) 1,1,1-Trichloroethane	18.79	97	4355992	45.99	ug/l		99
28) Carbon Tetrachloride	19.11	117	4011058	47.68	ug/l		94
29) Bromodichloromethane	21.54	83	6241322	47.89	ug/l		100
30) Isobutanol	19.17	43	8206088	3788.06	ug/l		91
31) Crotononitrile	20.07	67	1761631	405.37	ug/l	#	7
32) 1,2-Dichloropropane	21.05	63	2300983	46.82	ug/l		9
33) cis-1,3-Dichloropropene	22.38	75	3994669	47.52	ug/l		9
34) Trichloroethene	20.63	130	3292435	48.70	ug/l		9
35) Benzene	19.47	78	5625450	46.93	ug/l		10
36) Methylmethacrylate	21.12	41	5274694	93.93	ug/l		9

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\MAR2995\FOC329.D Vial: 4
Acq On : 29 Mar 95 1:43 pm Operator:
Sample : STD50++ FNA329 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS+5ULSS+2.5UL242, Multiplr: 1.00
Quant Time: Mar 29 14:33 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Tue Mar 28 08:58:36 1995
Response via : Single Level Calibration

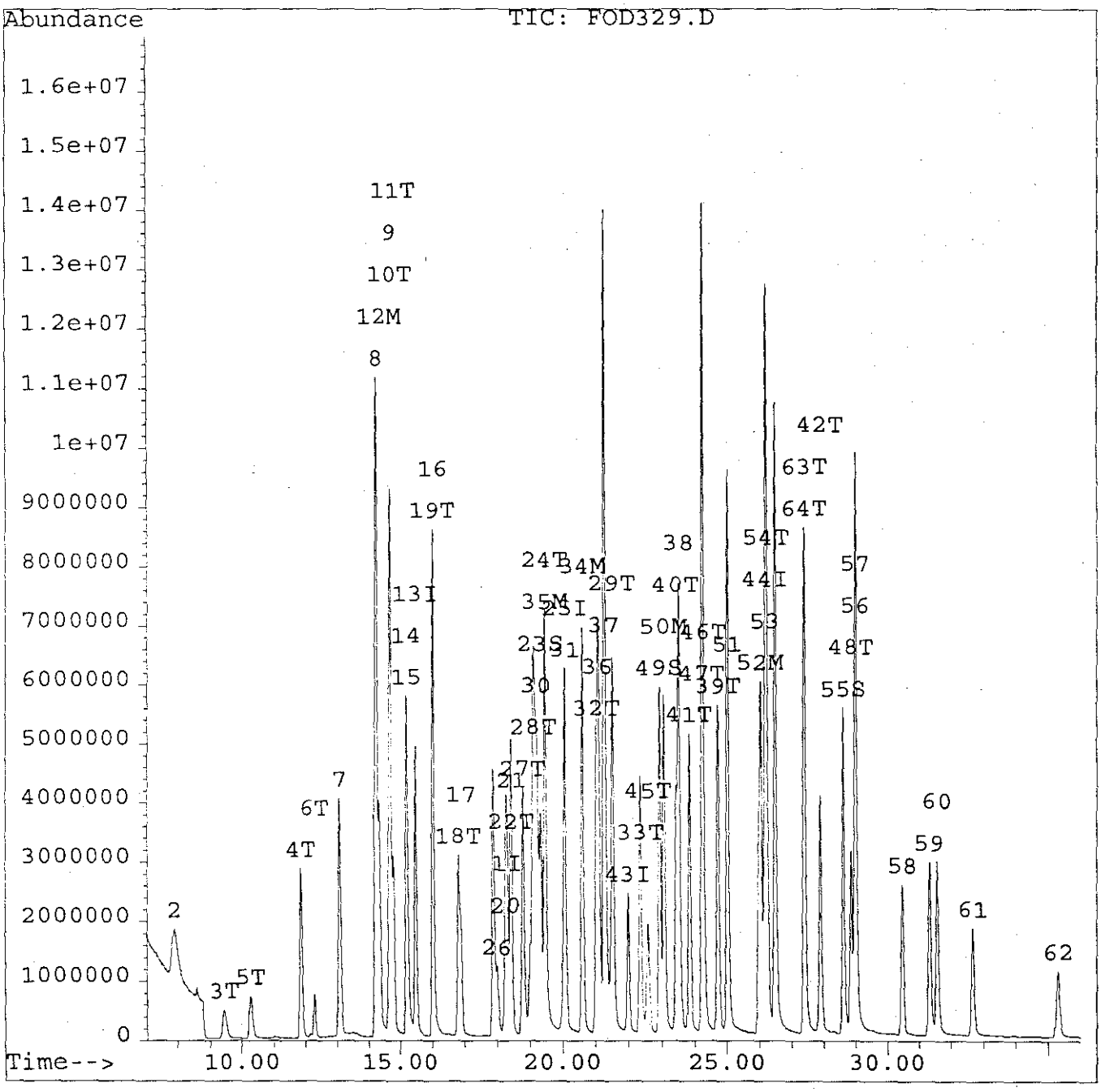
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Dibromomethane	21.30	174	7229851	95.45	ug/l		84
38)	Ethylmethacrylate	23.53	69	6459461	86.64	ug/l		90
39)	Dibromochloromethane	24.74	129	5212977	47.37	ug/l		94
40)	trans-1,3-Dichloropropene	23.45	75	3404335	46.58	ug/l		96
41)	1,1,2-Trichloroethane	23.86	97	2654372	46.32	ug/l		98
42)	Bromoform	27.90	173	4046513	42.83	ug/l		97
43)	2-Chloroethylvinylether	22.00	63	1430388	45.63	ug/l		93
45)	4-Methyl-2-Pentanone	22.61	43	2188789	48.01	ug/l		99
46)	2-Hexanone	24.29	43	1527270	47.40	ug/l		97
47)	Tetrachloroethene	24.24	164	4646456	70.52	ug/l		98
48)	1,1,2,2-Tetrachloroethane	28.86	83	4444360	42.18	ug/l		99
50)	Toluene	23.08	92	3950532	48.75	ug/l		95
51)	1,2-Dibromoethane	25.03	107	10254742	90.25	ug/l		96
52)	Chlorobenzene	26.05	112	5237840	47.45	ug/l		99
53)	1,1,1,2-Tetrachloroethane	26.19	131	6097914	87.10	ug/l		96
54)	Ethylbenzene	26.24	106	2093382	47.43	ug/l	#	75
56)	trans-1,4-Dichloro-2-buten	28.99	89	1391055	85.11	ug/l	#	50
57)	1,2,3-Trichloropropane	29.00	75	8723797	82.96	ug/l		96
58)	Pentachloroethane	30.49	167	2053823	47.00	ug/l		88
59)	1,3-Dichlorobenzene	31.33	146	4121980	41.91	ug/l		98
60)	1,4-Dichlorobenzene	31.57	146	4529406	41.73	ug/l	m	99
61)	1,2-Dichlorobenzene	32.68	146	3360078	39.42	ug/l		96
62)	1,2-Dibromo-3-chloropropan	35.30	157	1261889	62.35	ug/l		88
63)	Styrene	27.41	104	4759963	47.28	ug/l		96
64)	Xylene (total)	27.40	91	5951479	47.49	ug/l		94

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\MAR2995\FOD329.D Vial: 5
Acq On : 29 Mar 95 2:24 pm Operator:
Sample : STD100++ FNA329 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS+10ULSS+5UL242,2 Multiplr: 1.00
Quant Time: Mar 29 15:10 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Tue Mar 28 08:58:36 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\MAR2995\FOD329.D Vial: 5
Acq On : 29 Mar 95 2:24 pm Operator:
Sample : STD100++ FNA329 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS+10ULSS+5UL242,2 Multiplr: 1.00
Quant Time: Mar 29 15:10 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Tue Mar 28 08:58:36 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	18.31	128	1829943	50.00	ug/l		0.02
25) 1,4-Difluorobenzene	20.08	114	6299452	50.00	ug/l		0.02
44) Chlorobenzene-d5	26.19	117	6186236	50.00	ug/l		0.18
System Monitoring Compounds							%Recovery
23) 1,2-Dichloroethane-d4	19.33	65	4993254	103.96	ug/l		207.92%
49) Toluene-d8	22.94	98	11109907	88.71	ug/l		177.42%
55) Bromofluorobenzene	28.60	95	6802702	61.66	ug/l		123.32%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	7.92	85	7413534	424.81	ug/l	#	70
3) Chloromethane	9.46	50	2707395	180.07	ug/l		71
4) Bromomethane	11.86	94	5735898	136.54	ug/l		99
5) Vinyl Chloride	10.29	62	3339913	159.18	ug/l		98
6) Chloroethane	12.29	64	1986699	131.20	ug/l		98
7) Trichlorofluoromethane	13.09	101	9604857	113.70	ug/l		99
8) Acrolein	14.23	56	30077555	5482.97	ug/l		97
9) Iodomethane	14.69	142	26572034	165.66	ug/l		99
10) Acetone	14.68	43	1459118	103.90	ug/l		100
11) Carbon Disulfide	14.80	76	9377461	80.58	ug/l		100
12) 1,1-Dichloroethene	14.35	96	3715745	84.85	ug/l		98
13) Methylene Chloride	15.48	84	5822177	87.37	ug/l		90
14) 3-Chloropropene	15.21	76	3732913	174.46	ug/l	#	77
15) Acetonitrile	15.21	41	11344439	724.69	ug/l	#	81
16) Acrylonitrile	16.03	53	8633123	947.16	ug/l		93
17) Vinyl Acetate	16.90	43	6410422	77.87	ug/l		95
18) 1,1-Dichloroethane	16.82	63	6843660	85.28	ug/l		98
19) 1,2-Dichloroethene (total)	16.02	96	9119155	170.46	ug/l	m	98
20) Methacrylonitrile	18.25	41	4255714	222.44	ug/l		89
21) 2-Butanone	18.45	43	17807	0.88	ug/l	#	1
22) Chloroform	18.42	83	10233501	90.65	ug/l		99
24) 1,2-Dichloroethane	19.47	62	5440625	87.39	ug/l		99
26) Propionitrile	17.99	54	3726523	1116.56	ug/l	#	99
27) 1,1,1-Trichloroethane	18.79	97	7657562	87.06	ug/l		100
28) Carbon Tetrachloride	19.11	117	7212760	92.33	ug/l		96
29) Bromodichloromethane	21.53	83	11372643	93.97	ug/l		100
30) Isobutanol	19.21	43	12766975	6346.41	ug/l		95
31) Crotononitrile	20.07	67	4049369	1003.42	ug/l	#	76
32) 1,2-Dichloropropane	21.05	63	4114452	90.15	ug/l		96
33) cis-1,3-Dichloropropene	22.37	75	7411313	94.94	ug/l		96
34) Trichloroethene	20.62	130	6111585	97.36	ug/l		9[illegible]
35) Benzene	19.47	78	10348043	92.96	ug/l		100
36) Methylmethacrylate	21.10	41	10620607	203.66	ug/l		96

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\MAR2995\FOD329.D Vial: 5
Acq On : 29 Mar 95 2:24 pm Operator:
Sample : STD100++ FNA329 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS+10ULSS+5UL242,2 Multiplr: 1.00
Quant Time: Mar 29 15:10 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Tue Mar 28 08:58:36 1995
Response via : Single Level Calibration

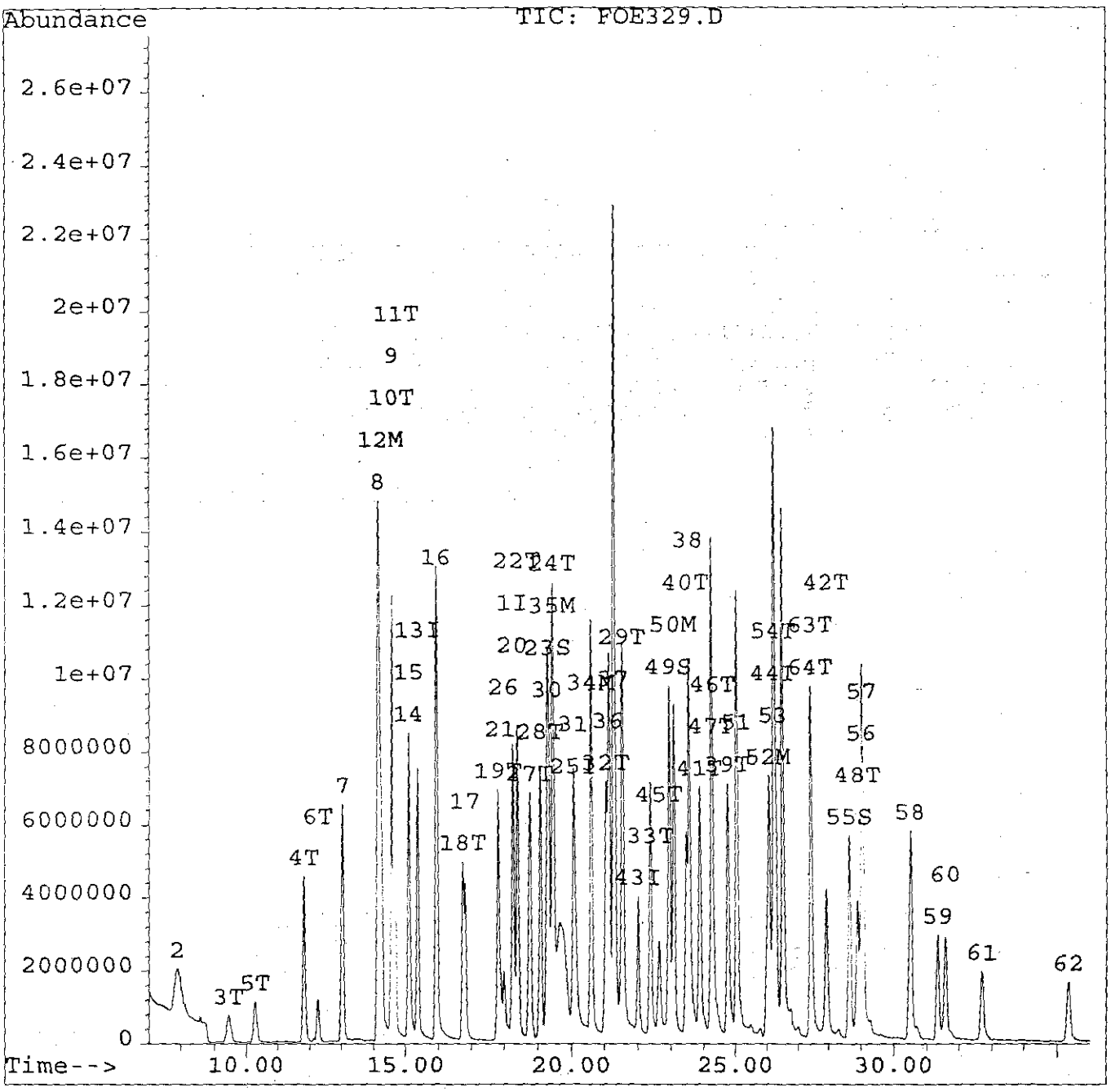
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37) Dibromomethane	21.29	174	14134533	200.95	ug/l		83
38) Ethylmethacrylate	23.52	69	12253490	176.98	ug/l		90
39) Dibromochloromethane	24.73	129	9011652	88.19	ug/l		95
40) trans-1,3-Dichloropropene	23.43	75	6378584	93.99	ug/l		96
41) 1,1,2-Trichloroethane	23.85	97	4744631	89.16	ug/l		100
42) Bromoform	27.89	173	5710750	65.10	ug/l		99
43) 2-Chloroethylvinylether	22.00	63	2843542	97.69	ug/l		93
45) 4-Methyl-2-Pentanone	22.60	43	4403260	86.81	ug/l		98
46) 2-Hexanone	24.29	43	3073975	85.75	ug/l		99
47) Tetrachloroethene	24.23	164	9312545	127.02	ug/l		97
48) 1,1,2,2-Tetrachloroethane	28.85	83	5669129	48.35	ug/l		98
50) Toluene	23.08	92	7074064	78.46	ug/l		96
51) 1,2-Dibromoethane	25.03	107	19307406	152.71	ug/l		95
52) Chlorobenzene	26.05	112	8595296	69.98	ug/l		99
53) 1,1,1,2-Tetrachloroethane	26.19	131	8590698	110.28	ug/l		95
54) Ethylbenzene	26.23	106	3356159	68.34	ug/l	m	58
56) trans-1,4-Dichloro-2-buten	28.98	89	2234401	122.87	ug/l		69
57) 1,2,3-Trichloropropane	29.00	75	12785911	109.28	ug/l		93
58) Pentachloroethane	30.48	167	1565240	32.19	ug/l		89
59) 1,3-Dichlorobenzene	31.33	146	4231694	38.67	ug/l	m	94
60) 1,4-Dichlorobenzene	31.56	146	4550964	37.68	ug/l	m	96
61) 1,2-Dichlorobenzene	32.67	146	2842386	29.97	ug/l		97
62) 1,2-Dibromo-3-chloropropan	35.30	157	1515957	67.32	ug/l		88
63) Styrene	27.41	104	7071949	63.13	ug/l		97
64) Xylene (total)	27.38	91	8542004	61.27	ug/l		93

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\MAR2995\FOE329.D Vial: 6
Acq On : 29 Mar 95 3:06 pm Operator:
Sample : STD150++ FNA329 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS+15ULSS+7.5UL242 Multiplr: 1.00
Quant Time: Mar 29 16:10 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Tue Mar 28 08:58:36 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\MAR2995\FOE329.D Vial: 6
Acq On : 29 Mar 95 3:06 pm Operator:
Sample : STD150++ FNA329 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS+15ULSS+7.5UL242 Multiplr: 1.00
Quant Time: Mar 29 16:10 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Tue Mar 28 08:58:36 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	18.26	128	1977442	50.00	ug/l		-0.03
25) 1,4-Difluorobenzene	20.05	114	6737746	50.00	ug/l		-0.01
44) Chlorobenzene-d5	26.20	117	7650436	50.00	ug/l		0.20
System Monitoring Compounds							%Recovery
23) 1,2-Dichloroethane-d4	19.30	65	8229812	158.56	ug/l		317.12%
49) Toluene-d8	22.94	98	18162396	117.27	ug/l		234.54%
55) Bromofluorobenzene	28.62	95	7912805	58.00	ug/l		115.99%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	7.91	85	11359324	602.36	ug/l		96
3) Chloromethane	9.44	50	4323402	266.10	ug/l		70
4) Bromomethane	11.82	94	9354710	206.07	ug/l		98
5) Vinyl Chloride	10.27	62	5310818	234.24	ug/l		98
6) Chloroethane	12.25	64	3237467	197.85	ug/l		97
7) Trichlorofluoromethane	13.03	101	15390570	168.60	ug/l		99
8) Acrolein	14.15	56	44026557	7427.15	ug/l		96
9) Iodomethane	14.58	142	29395596	169.59	ug/l	#	73
10) Acetone	14.58	43	668641	44.06	ug/l	m	97
11) Carbon Disulfide	14.73	76	5589694	44.45	ug/l		100
12) 1,1-Dichloroethene	14.25	96	5746522	121.43	ug/l		96
13) Methylene Chloride	15.38	84	8899396	123.58	ug/l		89
14) 3-Chloropropene	15.10	76	5571549	240.97	ug/l	m	1
15) Acetonitrile	15.11	41	15886131	939.13	ug/l	#	81
16) Acrylonitrile	15.95	53	14899205	1512.70	ug/l		94
17) Vinyl Acetate	16.82	43	13103521	147.31	ug/l		95
18) 1,1-Dichloroethane	16.74	63	11058553	127.52	ug/l		97
19) 1,2-Dichloroethene (total)	17.81	96	14846666	256.83	ug/l	m	97
20) Methacrylonitrile	18.24	41	7475637	361.59	ug/l		91
21) 2-Butanone	17.90	43	4135927	188.98	ug/l	m	85
22) Chloroform	18.39	83	16921762	138.72	ug/l		99
24) 1,2-Dichloroethane	19.45	62	9008250	133.90	ug/l		99
26) Propionitrile	17.99	54	5922702	1659.15	ug/l		94
27) 1,1,1-Trichloroethane	18.75	97	12569833	133.62	ug/l		99
28) Carbon Tetrachloride	19.07	117	12059348	144.33	ug/l		96
29) Bromodichloromethane	21.53	83	18260312	141.07	ug/l		99
30) Isobutanol	19.28	43	14365235	6676.38	ug/l		96
31) Crotononitrile	20.08	67	6503880	1506.80	ug/l	#	67
32) 1,2-Dichloropropane	21.03	63	6708865	137.44	ug/l		97
33) cis-1,3-Dichloropropene	22.38	75	11951868	143.15	ug/l		97
34) Trichloroethene	20.60	130	9824134	146.32	ug/l		98
35) Benzene	19.43	78	16938066	142.26	ug/l		100
36) Methylmethacrylate	21.13	41	17498754	313.73	ug/l	#	86

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\MAR2995\FOE329.D Vial: 6
Acq On : 29 Mar 95 3:06 pm Operator:
Sample : STD150++ FNA329 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS+15ULSS+7.5UL242 Multiplr: 1.00
Quant Time: Mar 29 16:10 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Tue Mar 28 08:58:36 1995
Response via : Single Level Calibration

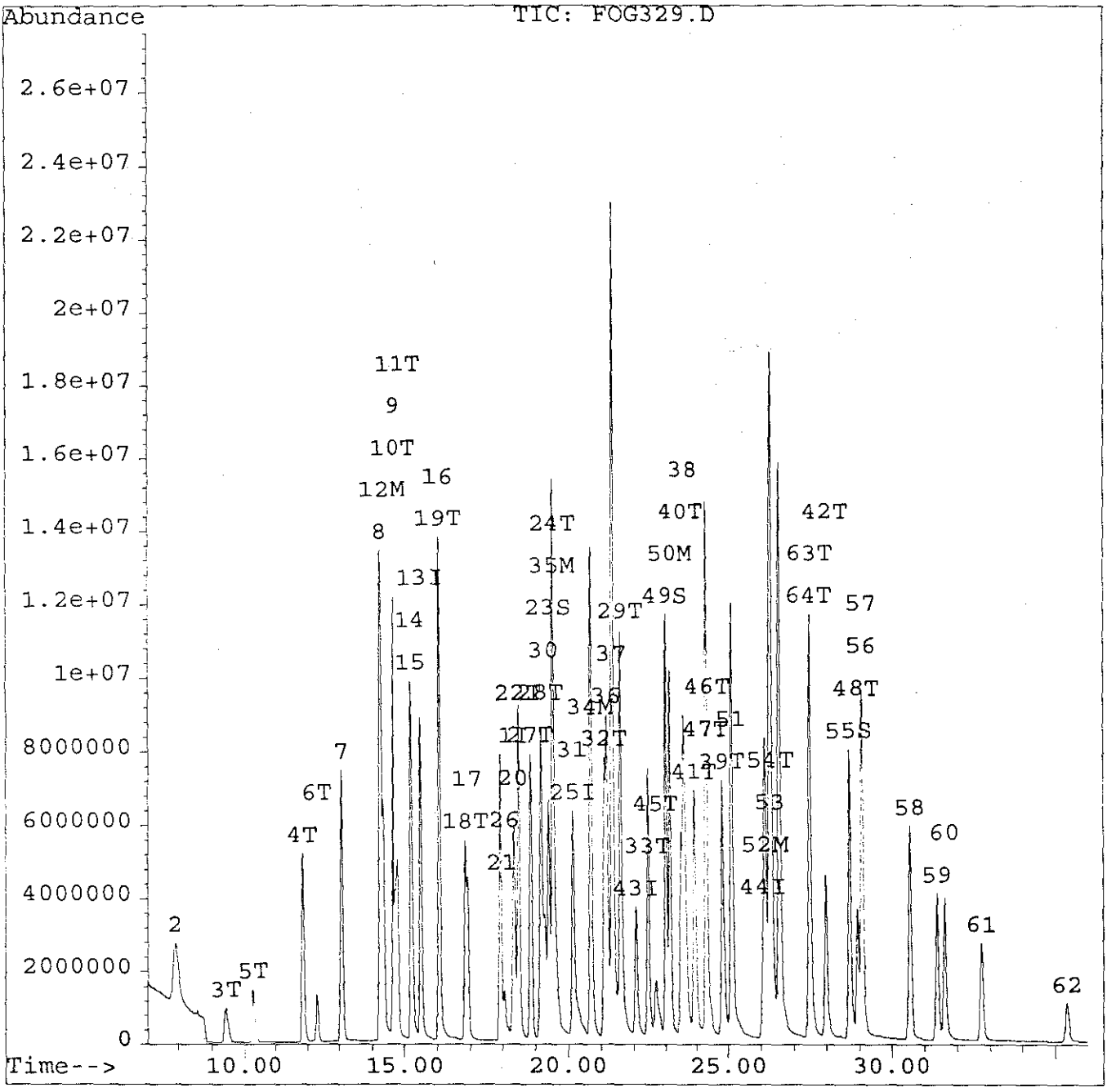
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Dibromomethane	21.28	174	23175313	308.05	ug/l		82
38)	Ethylmethacrylate	23.54	69	17948888	242.37	ug/l		90
39)	Dibromochloromethane	24.76	129	12534029	114.68	ug/l		94
40)	trans-1,3-Dichloropropene	23.45	75	10109204	139.27	ug/l		99
41)	1,1,2-Trichloroethane	23.87	97	7076203	124.33	ug/l		97
42)	Bromoform	27.91	173	6847508	72.98	ug/l		98
43)	2-Chloroethylvinylether	22.00	63	4525394	145.36	ug/l		94
45)	4-Methyl-2-Pentanone	22.64	43	5971692	95.20	ug/l		98
46)	2-Hexanone	24.31	43	3575943	80.66	ug/l		96
47)	Tetrachloroethene	24.24	164	9363546	103.28	ug/l		99
48)	1,1,2,2-Tetrachloroethane	28.88	83	8121669	56.01	ug/l		99
50)	Toluene	23.08	92	11224642	100.66	ug/l		97
51)	1,2-Dibromoethane	25.04	107	28094093	179.68	ug/l		95
52)	Chlorobenzene	26.06	112	11889252	78.27	ug/l		99
53)	1,1,1,2-Tetrachloroethane	26.20	131	11055209	114.75	ug/l		95
54)	Ethylbenzene	26.23	106	4788374	78.84	ug/l	m	56
56)	trans-1,4-Dichloro-2-buten	29.00	89	2491902	110.80	ug/l	#	59
57)	1,2,3-Trichloropropane	29.01	75	14971089	103.47	ug/l		94
58)	Pentachloroethane	30.51	167	3995846	66.45	ug/l		87
59)	1,3-Dichlorobenzene	31.34	146	4443259	32.83	ug/l	m	96
60)	1,4-Dichlorobenzene	31.58	146	5079032	34.00	ug/l	m	94
61)	1,2-Dichlorobenzene	32.70	146	3342555	28.50	ug/l		93
62)	1,2-Dibromo-3-chloropropan	35.34	157	1174940	42.19	ug/l	#	29
63)	Styrene	27.41	104	8916824	64.36	ug/l		97
64)	Xylene (total)	27.40	91	11013333	63.87	ug/l		94

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\MAR2995\FOG329.D Vial: 8
Acq On : 29 Mar 95 5:11 pm Operator:
Sample : STD200++ FNA329 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS+20ULSS+10UL242, Multiplr: 1.00
Quant Time: Mar 29 17:59 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Mar 29 18:01:26 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\MAR2995\FOG329.D Vial: 8
Acq On : 29 Mar 95 5:11 pm Operator:
Sample : STD200++ FNA329 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS+20ULSS+10UL242, Multiplr: 1.00
Quant Time: Mar 29 17:59 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Mar 29 18:01:26 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	18.37	128	1813568	50.00	ug/l		0.06
25) 1,4-Difluorobenzene	20.14	114	6475140	50.00	ug/l		0.06
44) Chlorobenzene-d5	26.07	117	4088726	50.00	ug/l		-0.12
System Monitoring Compounds							%Recovery
23) 1,2-Dichloroethane-d4	19.40	65	9249718	194.32	ug/l		388.63%
49) Toluene-d8	23.01	98	21736348	262.60	ug/l		525.20%
55) Bromofluorobenzene	28.69	95	10908995	149.60	ug/l		299.21%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	7.91	85	13577864	785.07	ug/l		96
3) Chloromethane	9.43	50	5024795	337.21	ug/l		67
4) Bromomethane	11.84	94	10033392	241.00	ug/l		98
5) Vinyl Chloride	10.27	62	6127628	294.69	ug/l		98
6) Chloroethane	12.28	64	3575090	238.22	ug/l		98
7) Trichlorofluoromethane	13.07	101	17946162	214.36	ug/l		99
8) Acrolein	14.25	56	37020579	6809.58	ug/l		9
9) Iodomethane	14.67	142	24988439	157.19	ug/l	#	71
10) Acetone	14.67	43	373276	26.82	ug/l		99
11) Carbon Disulfide	14.81	76	11856683	102.80	ug/l		100
12) 1,1-Dichloroethene	14.35	96	6316951	145.55	ug/l		96
13) Methylene Chloride	15.50	84	10324531	156.33	ug/l		90
14) 3-Chloropropene	15.22	76	6268451	295.61	ug/l	#	73
15) Acetonitrile	15.22	41	18124556	1168.27	ug/l		85
16) Acrylonitrile	16.06	53	11565712	1280.36	ug/l		95
17) Vinyl Acetate	16.92	43	12955565	158.80	ug/l		95
18) 1,1-Dichloroethane	16.86	63	12573690	158.10	ug/l		100
19) 1,2-Dichloroethene (total)	16.05	96	15341365	289.37	ug/l	m	99
20) Methacrylonitrile	18.33	41	5739450	302.70	ug/l	#	88
21) 2-Butanone	17.97	43	2662599	132.65	ug/l	m	63
22) Chloroform	18.48	83	17930227	160.26	ug/l		97
24) 1,2-Dichloroethane	19.54	62	9827180	159.27	ug/l		99
26) Propionitrile	18.07	54	3901248	1137.20	ug/l		98
27) 1,1,1-Trichloroethane	18.85	97	14460019	159.95	ug/l		99
28) Carbon Tetrachloride	19.18	117	13676626	170.32	ug/l		99
29) Bromodichloromethane	21.60	83	19799001	159.16	ug/l		99
30) Isobutanol	19.28	43	7595509	3673.25	ug/l		98
31) Crotononitrile	20.15	67	5015398	1209.08	ug/l	#	67
32) 1,2-Dichloropropane	21.11	63	7610303	162.23	ug/l		100
33) cis-1,3-Dichloropropene	22.44	75	13136286	163.71	ug/l		98
34) Trichloroethene	20.68	130	12256609	189.95	ug/l		9
35) Benzene	19.53	78	19353386	169.13	ug/l		10
36) Methylmethacrylate	21.19	41	15543614	289.98	ug/l		96

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\MAR2995\FOG329.D Vial: 8
Acq On : 29 Mar 95 5:11 pm Operator:
Sample : STD200++ FNA329 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS+20ULSS+10UL242, Multiplr: 1.00
Quant Time: Mar 29 17:59 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Mar 29 18:01:26 1995
Response via : Single Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Dibromomethane	21.35	174	23496802	324.99	ug/l		81
38)	Ethylmethacrylate	23.60	69	17758606	249.53	ug/l		87
39)	Dibromochloromethane	24.82	129	14137512	134.60	ug/l		100
40)	trans-1,3-Dichloropropene	23.51	75	10970265	157.27	ug/l		99
41)	1,1,2-Trichloroethane	23.93	97	7965171	145.62	ug/l		95
42)	Bromoform	27.99	173	7383279	81.88	ug/l		100
43)	2-Chloroethylvinylether	22.08	63	4627342	154.66	ug/l		91
45)	4-Methyl-2-Pentanone	22.70	43	5037267	150.25	ug/l	m	97
46)	2-Hexanone	24.37	43	3303936	139.45	ug/l	m	93
47)	Tetrachloroethene	24.30	164	10281394	212.18	ug/l	m	100
48)	1,1,2,2-Tetrachloroethane	28.94	83	6750284	87.11	ug/l	m	95
50)	Toluene	23.15	92	12438819	208.73	ug/l	m	96
51)	1,2-Dibromoethane	25.11	107	30131761	360.58	ug/l	m	93
52)	Chlorobenzene	26.14	112	14824218	182.61	ug/l	m	97
53)	1,1,1,2-Tetrachloroethane	26.28	131	12975337	252.01	ug/l	m	93
54)	Ethylbenzene	26.32	106	5715001	176.06	ug/l	m	82
56)	trans-1,4-Dichloro-2-buten	29.07	89	2260035	188.03	ug/l	m	67
57)	1,2,3-Trichloropropane	29.07	75	13019121	168.35	ug/l	m	95
58)	Pentachloroethane	30.55	167	4015685	124.95	ug/l	m	85
59)	1,3-Dichlorobenzene	31.40	146	6055196	83.72	ug/l	m	98
60)	1,4-Dichlorobenzene	31.62	146	5839779	73.15	ug/l	m	100
61)	1,2-Dichlorobenzene	32.74	146	4456338	71.09	ug/l	m	96
62)	1,2-Dibromo-3-chloropropan	35.36	157	1453110	97.63	ug/l	m	86
63)	Styrene	27.51	104	10749195	145.17	ug/l	m	95
64)	Xylene (total)	27.48	91	13293947	144.26	ug/l	m	96

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

6A

VOLATILE ORGANICS INTITIAL CALIBRATION DATA

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy RFW Lot: 9504G211

Instrument ID: GCL#5 Calibration Date(s): 04/13/95 04/13/95

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20+= EBB413 RRF50+= EBC413
RRF100= EBD413 RRF150= EBE413 RRF200= EBF413

COMPOUND	RRF20+	RRF50+	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Chloromethane #	0.756	0.691	0.549	0.566	0.589	0.630	14.2#
Bromomethane	1.737	1.485	1.380	1.312	1.310	1.445	12.3
Vinyl chloride *	1.240	1.048	1.013	0.938	0.934	1.035	12.1*
Chloroethane	0.728	0.610	0.586	0.545	0.527	0.599	13.2
Methylene Chloride	1.807	1.592	1.607	1.482	1.444	1.587	8.9
Acetone	0.354	0.246	0.246	0.199	0.179	0.245	27.6
Carbon Disulfide	2.788	2.515	2.600	2.308	2.192	2.481	9.5
1,1-Dichloroethene *	1.184	1.068	1.067	0.935	0.759	1.003	16.2*
1,1-Dichloroethane #	2.342	2.227	2.206	2.011	1.970	2.151	7.3#
1,2-Dichloroethene (total)	1.457	1.336	1.342	1.186	1.231	1.310	8.1
Chloroform *	3.224	2.929	2.988	2.672	2.626	2.888	8.5*
1,2-Dichloroethane	2.145	2.009	2.000	1.803	1.728	1.937	8.7
2-Butanone	0.360	0.382	0.426	0.358	0.343	0.374	8.6
1,1,1-Trichloroethane	0.773	0.668	0.645	0.577	0.556	0.644	13.3
Carbon Tetrachloride	0.712	0.630	0.630	0.579	0.545	0.619	10.2
Vinyl acetate	1.775	1.879	1.879	1.816	1.666	1.803	4.9
Bromodichloromethane	0.790	0.757	0.762	0.698	0.672	0.736	6.7
1,2-Dichloropropane *	0.365	0.350	0.348	0.324	0.317	0.341	5.8*
cis-1,3-Dichloropropene	0.552	0.539	0.539	0.506	0.490	0.525	4.9
Trichloroethene	0.555	0.519	0.510	0.456	0.452	0.498	8.8
Dibromochloromethane	0.682	0.675	0.674	0.631	0.600	0.653	5.5
1,1,2-Trichloroethane	0.369	0.354	0.344	0.326	0.310	0.341	6.8
Benzene	0.851	0.788	0.756	0.716	0.707	0.763	7.7
trans-1,3-Dichloropropene	0.479	0.473	0.469	0.442	0.420	0.457	5.5
Bromoform #	0.524	0.534	0.508	0.492	0.454	0.502	6.2#
4-Methyl-2-pentanone	0.288	0.324	0.318	0.310	0.278	0.304	6.5
2-Hexanone	0.175	0.201	0.193	0.195	0.169	0.187	7.5
Tetrachloroethene	0.646	0.590	0.561	0.528	0.524	0.570	8.8
1,1,2,2-Tetrachloroethane #	0.743	0.739	0.727	0.701	0.642	0.711	5.8#
Toluene *	0.678	0.651	0.654	0.626	0.626	0.647	3.4*
Chlorobenzene #	1.031	0.954	0.950	0.908	0.899	0.948	5.5#
Ethylbenzene *	0.428	0.396	0.381	0.350	0.345	0.380	9.0*
Styrene	0.903	0.878	0.846	0.814	0.808	0.850	4.8
Xylene (total)	1.329	1.249	1.227	1.149	1.134	1.218	6.5
Acrolein	5.096	5.490	5.009	4.850	2.426	4.574	26.8
Acrylonitrile	1.460	1.507	1.572	1.498	1.406	1.489	4.1
Trichlorofluoromethane	3.967	3.170	2.975	2.674	2.608	3.079	17.7

6C

VOLATILE ORGANICS INTITIAL CALIBRATION DATA

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy RFW Lot: 9504G211

Instrument ID: GCL#5 Calibration Date(s): 04/13/95 04/13/95

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

Min $\overline{RRF}$ for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20+= EBB413 RRF50+= EBC413
RRF100= EBD413 RRF150= EBE413 RRF200= EBF413

COMPOUND	RRF20+	RRF50+	RRF100	RRF150	RRF200	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	3.923	3.240	2.944	2.583	2.475	3.033	19.2
Acetonitrile	4.415	3.254	3.168	2.900	2.662	3.280	20.6
Iodomethane	9.685	7.158	7.153	6.821	6.452	7.454	17.2
Propionitrile (Ethyl Cyanide)	0.134	0.156	0.154	0.155	0.144	0.148	6.4
3-Chloropropene	1.394	1.021	1.017	0.972	0.930	1.067	17.5
Methacrylonitrile	1.015	0.919	1.010	0.983	0.896	0.965	5.6
Dibromomethane	1.213	0.942	0.848	0.827	0.786	0.923	18.6
Isobutyl alcohol	0.734	0.692	0.680	0.643	0.554	0.661	10.3
1,2-Dibromoethane	1.717	1.382	1.350	1.346	1.283	1.416	12.2
1,1,1,2-Tetrachloroethane	1.616	1.224	1.139	1.122	1.077	1.235	17.8
1,2,3-Trichloropropane	1.615	1.349	1.303	1.259	1.158	1.337	12.8
trans-1,4-Dichloro-2-butene	0.212	0.196	0.190	0.188	0.168	0.191	8.1
1,2-Dibromo-3-chloropropane	0.458	0.435	0.429	0.421	0.392	0.427	5.7
2-Chloro-1,3-Butadiene							
Methylmethacrylate	0.548	0.486	0.480	0.457	0.406	0.475	10.8
Ethylmethacrylate	0.933	0.768	0.789	0.754	0.708	0.790	10.8
Pentachloroethane	1.144	0.889	0.847	0.839	0.823	0.908	14.7
Toluene-d8	1.009	0.977	0.959	1.009	0.990	0.989	2.2
4-Bromofluorobenzene	0.813	0.766	0.756	0.756	0.740	0.766	3.6
1,2-Dichloroethane-d4	1.769	1.658	1.522	1.594	1.493	1.607	6.9

Response Factor Report gcms5

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 15 13:27:12 1995
Response via : Continuing Calibration

Calibration Files
1 =EBB413.D 2 =EBC413.D 3 =EBD413.D
4 =EBE413.D 5 =EBF413.D

		Compound	1	2	3	4	5	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------						
2)		Dichlorodifluorometha	3.923	3.240	2.944	2.583	2.475	3.0	19.21
3)	T	Chloromethane	0.756	0.691	0.549	0.566	0.589	0.6#	14.19
4)	T	Bromomethane	1.737	1.485	1.380	1.312	1.310	1.4	12.33
5)	T	Vinyl Chloride	1.240	1.048	1.013	0.937	0.934	1.0	12.08*
6)	T	Chloroethane	0.728	0.610	0.586	0.545	0.527	0.6	13.22
7)		Trichlorofluoromethan	3.967	3.170	2.975	2.674	2.608	3.1	17.75
8)		Ethyl Ether	0.798	0.732	0.724	0.460	0.444	0.6	26.39
9)		Acrolein	0.127	0.137	0.125	0.121	0.061	0.1	26.75
10)		Iodomethane	3.874	3.579	3.577	3.411	3.226	3.5	6.78
11)		Trichlorotrifluoroeth	3.247	2.858	2.978	2.666	2.427	2.8	10.95
12)	T	Acetone	0.354	0.245	0.246	0.199	0.179	0.2	27.63
13)	T	Carbon Disulfide	2.788	2.515	2.599	2.308	2.192	2.5	9.52
14)	M	1,1-Dichloroethene	1.184	1.068	1.067	0.935	0.759	1.0	16.19*
15)	I	Methylene Chloride	1.807	1.592	1.607	1.483	1.444	1.6	8.92
16)		3-Chloropropene	0.558	0.510	0.508	0.486	0.465	0.5	6.83
17)		Acetonitrile	0.552	0.407	0.396	0.362	0.333	0.4	20.61
18)		Acrylonitrile	0.183	0.188	0.197	0.187	0.176	0.2	4.12
19)		Methyl-tert-Butyl Eth	0.188	0.197	0.187	0.176		0.0	-1.00
20)		Vinyl Acetate	1.775	1.879	1.879	1.816	1.666	1.8	4.90
21)	T	1,1-Dichloroethane	2.342	2.227	2.206	2.011	1.970	2.2#	7.26
22)	T	1,2-Dichloroethene (t	1.457	1.336	1.342	1.186	1.231	1.3	8.09
23)		2-Butanone	0.360	0.382	0.426	0.358	0.343	0.4	8.65
24)		Tetrahydrofuran						0.0	-1.00
25)		Methacrylonitrile	0.406	0.459	0.505	0.492	0.448	0.5	8.41
26)	T	Chloroform	3.224	2.929	2.988	2.672	2.626	2.9	8.48*
27)	S	1,2-Dichloroethane-d4	1.769	1.658	1.522	1.594	1.493	1.6	6.90
28)	T	1,2-Dichloroethane	2.145	2.009	2.000	1.803	1.728	1.9	8.72
29)	I	1,4-Difluorobenzene	----------ISTD----------						
30)		Propionitrile	0.017	0.019	0.019	0.019	0.018	0.0	6.43
31)	T	1,1,1-Trichloroethane	0.773	0.668	0.645	0.577	0.556	0.6	13.35
32)	T	Carbon Tetrachloride	0.712	0.630	0.630	0.579	0.545	0.6	10.18
33)	T	Bromodichloromethane	0.790	0.757	0.762	0.698	0.672	0.7	6.69
34)		Isobutanol	0.009	0.009	0.009	0.008	0.007	0.0	10.29
35)		Crotononitrile	0.019	0.022	0.022	0.022	0.020	0.0	5.74
36)	T	1,2-Dichloropropane	0.365	0.350	0.348	0.324	0.317	0.3	5.83*
37)		2-Nitropropane	0.050	0.046	0.046	0.049	0.041	0.0	7.70
38)	T	cis-1,3-Dichloroprope	0.552	0.539	0.539	0.506	0.490	0.5	4.93
39)	M	Trichloroethene	0.555	0.519	0.510	0.456	0.452	0.5	8.80
40)	M	Benzene	0.851	0.788	0.756	0.716	0.707	0.8	7.68
1)		Methylmethacrylate	0.219	0.243	0.240	0.229	0.203	0.2	7.14
2)		Dibromomethane	0.485	0.471	0.424	0.413	0.393	0.4	8.94

(#) = Out of Range

Response Factor Report gcms5

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 15 13:27:12 1995
Response via : Continuing Calibration

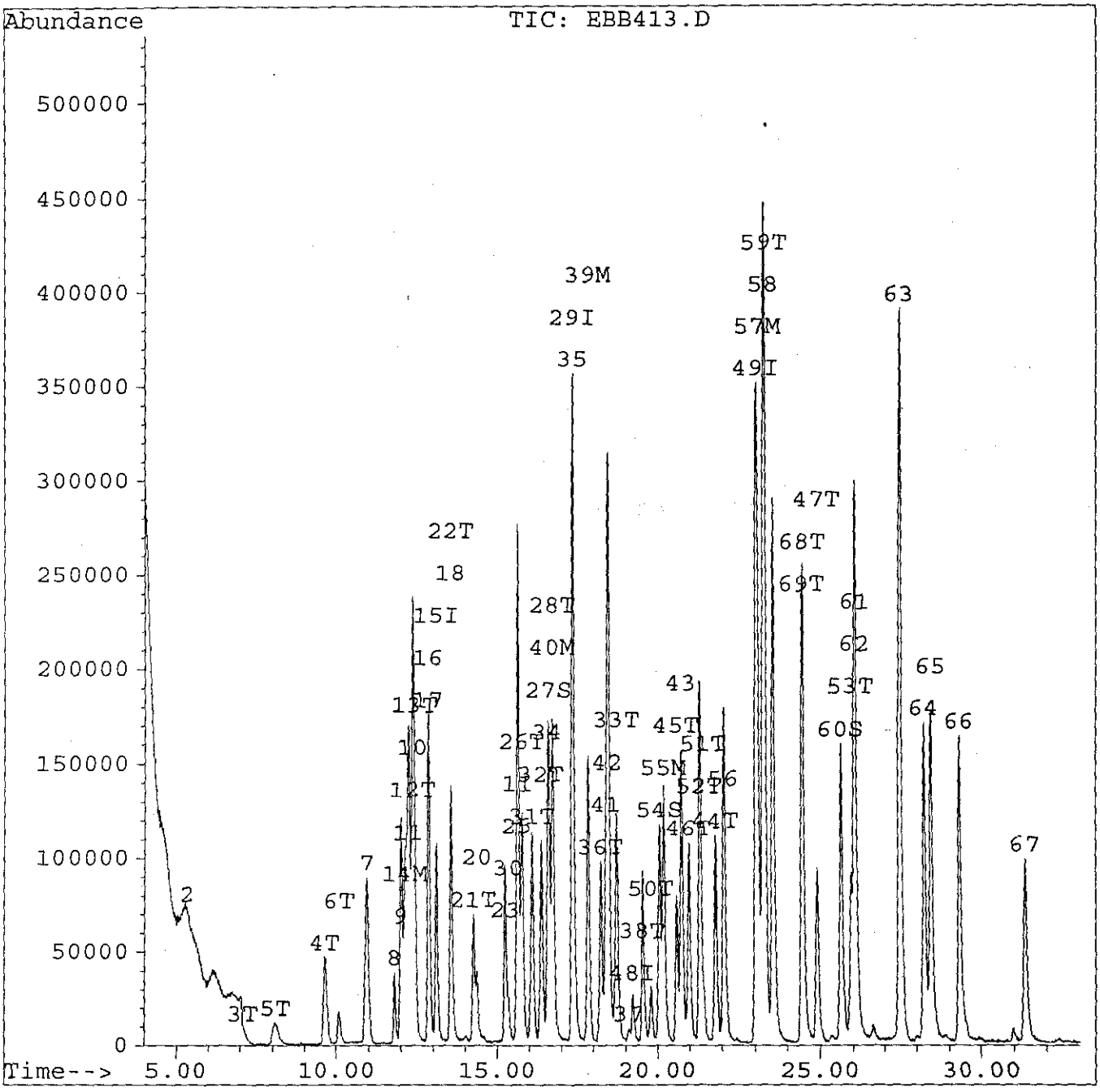
Calibration Files
1 =EBB413.D 2 =EBC413.D 3 =EBD413.D
4 =EBE413.D 5 =EBF413.D

		Compound	1	2	3	4	5	Avg	%RSD
43)		Ethylmethacrylate	0.373	0.384	0.394	0.377	0.354	0.4	3.97
44)	T	Dibromochloromethane	0.682	0.675	0.674	0.631	0.600	0.7	5.48
45)	T	trans-1,3-Dichloropro	0.479	0.473	0.469	0.442	0.420	0.5	5.48
46)	T	1,1,2-Trichloroethane	0.369	0.354	0.344	0.326	0.309	0.3	6.83
47)	T	Bromoform	0.524	0.534	0.508	0.492	0.454	0.5*	6.25
48)	I	2-Chloroethylvinyleth	0.111	0.110	0.118	0.112	0.109	0.1	3.08
49)	I	Chlorobenzene-d5	----------ISTD----------						
50)	T	4-Methyl-2-Pentanone	0.288	0.324	0.317	0.310	0.278	0.3	6.46
51)	T	2-Hexanone	0.175	0.201	0.193	0.195	0.169	0.2	7.48
52)	T	Tetrachloroethene	0.646	0.590	0.561	0.528	0.523	0.6	8.85
53)	T	1,1,2,2-Tetrachloroet	0.743	0.739	0.727	0.701	0.642	0.7*	5.84
54)	S	Toluene-d8	1.009	0.977	0.959	1.009	0.990	1.0	2.16
55)	M	Toluene	0.678	0.651	0.654	0.626	0.626	0.6	3.39
56)		1,2-Dibromoethane	0.687	0.691	0.675	0.673	0.642	0.7	2.87
57)	M	Chlorobenzene	1.031	0.954	0.950	0.908	0.899	0.9*	5.51
58)		1,1,1,2-Tetrachloroet	0.647	0.612	0.570	0.561	0.538	0.6	7.40
59)	T	Ethylbenzene	0.428	0.396	0.381	0.350	0.345	0.4	8.97
60)	S	Bromofluorobenzene	0.813	0.766	0.756	0.756	0.740	0.8	3.64
61)		trans-1,4-Dichloro-2-	0.085	0.098	0.095	0.094	0.084	0.1	6.95
62)		1,2,3-Trichloropropan	0.646	0.674	0.651	0.629	0.579	0.6	5.63
63)		Pentachloroethane	0.458	0.444	0.423	0.419	0.412	0.4	4.41
64)		1,3-Dichlorobenzene	1.041	0.970	0.918	0.858	0.868	0.9	8.16
65)		1,4-Dichlorobenzene	1.169	1.036	1.010	0.941	0.958	1.0	8.82
66)		1,2-Dichlorobenzene	1.040	0.973	0.937	0.899	0.891	0.9	6.43
67)		1,2-Dibromo-3-chlorop	0.183	0.218	0.214	0.210	0.196	0.2	7.02
68)	T	Styrene	0.903	0.878	0.846	0.814	0.808	0.8	4.80
69)	T	Xylene (total)	1.329	1.249	1.227	1.149	1.134	1.2	6.53

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\APR1395A\EBB413.D Vial: 2
Acq On : 13 Apr 95 6:36 pm Operator:
Sample : STD20++ EAB413 Inst : gcms5
Misc : GCL#5,DIL=1,5ML OFW +5ULIS,2ULSS+1UL257, Multiplr: 1.00
Quant Time: Apr 15 12:37 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 15 12:26:57 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR1395A\EBB413.D Vial: 2
Acq On : 13 Apr 95 6:36 pm Operator:
Sample : STD20++ EAB413 Inst : gcms5
Misc : GCL#5,DIL=1,5ML OFW +5ULIS,2ULSS+1UL257, Multiplr: 1.00
Quant Time: Apr 15 12:37 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 15 12:26:57 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Mi
1) Bromochloromethane	15.64	128	177724	50.00	ug/l		0.0
29) 1,4-Difluorobenzene	17.34	114	684059	50.00	ug/l		0.0
49) Chlorobenzene-d5	23.01	117	587798	50.00	ug/l		0.0
System Monitoring Compounds							%Recover
27) 1,2-Dichloroethane-d4	16.60	65	125743	21.34	ug/l		42.6
54) Toluene-d8	20.05	98	237185	20.66	ug/l		41.3
60) Bromofluorobenzene	25.61	95	191251	21.23	ug/l		42.4
Target Compounds							Qvalu
2) Dichlorodifluoromethane	5.34	85	278886	24.20	ug/l	m	6
3) Chloromethane	7.09	50	53718	21.89	ug/l	m	4
4) Bromomethane	9.63	94	123458	23.39	ug/l	m	
5) Vinyl Chloride	8.08	62	88181	23.67	ug/l	m	8
6) Chloroethane	10.09	64	51779	23.88	ug/l	#	6
7) Trichlorofluoromethane	10.92	101	281997	25.03	ug/l		10
8) Ethyl Ether	11.79	59	56750	21.80	ug/l		9
9) Acrolein	11.99	56	362241	742.48	ug/l		9
10) Iodomethane	12.36	142	688496	54.12	ug/l		9
11) Trichlorotrifluoroethane	12.23	101	230795	22.72	ug/l	m	
12) Acetone	12.35	43	25153	29.86	ug/l	m	7
13) Carbon Disulfide	12.42	76	198233	22.17	ug/l		10
14) 1,1-Dichloroethene	12.12	96	84160	22.16	ug/l	#	8
15) Methylene Chloride	13.09	84	128481	22.70	ug/l	m	1
16) 3-Chloropropene	12.85	76	99132	54.64	ug/l	#	
17) Acetonitrile	12.84	41	313834	217.05	ug/l	#	8
18) Acrylonitrile	13.52	53	103821	155.04	ug/l		9
20) Vinyl Acetate	14.36	43	126202	18.90	ug/l	#	7
21) 1,1-Dichloroethane	14.25	63	166473	21.03	ug/l		9
22) 1,2-Dichloroethene (total)	13.55	96	207181	43.61	ug/l	m	9
23) 2-Butanone	15.27	43	25601	18.86	ug/l	#	5
25) Methacrylonitrile	15.60	41	72172	44.21	ug/l		9
26) Chloroform	15.76	83	229182	22.01	ug/l		9
28) 1,2-Dichloroethane	16.72	62	152475	21.35	ug/l		9
30) Propionitrile	15.34	54	36580	137.21	ug/l	#	9
31) 1,1,1-Trichloroethane	16.08	97	211599	23.17	ug/l		9
32) Carbon Tetrachloride	16.37	117	194753	22.60	ug/l		9
33) Bromodichloromethane	18.70	83	216276	20.88	ug/l		9
34) Isobutanol	16.56	43	200960	1698.48	ug/l	#	8
35) Crotononitrile	17.33	67	41819	141.00	ug/l	#	
36) 1,2-Dichloropropane	18.20	63	99990	20.90	ug/l	m	
37) 2-Nitropropane	19.09	43	13605	21.75	ug/l	#	
38) cis-1,3-Dichloropropene	19.52	75	151007	20.48	ug/l		1
39) Trichloroethene	17.82	130	151751	21.38	ug/l		

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR1395A\EBB413.D Vial: 2
Acq On : 13 Apr 95 6:36 pm Operator:
Sample : STD20++ EAB413 Inst : gcms5
Misc : GCL#5,DIL=1,5ML OFW +5ULIS,2ULSS+1UL257, Multiplr: 1.00
Quant Time: Apr 15 12:37 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 15 12:26:57 1995
Response via : Single Level Calibration

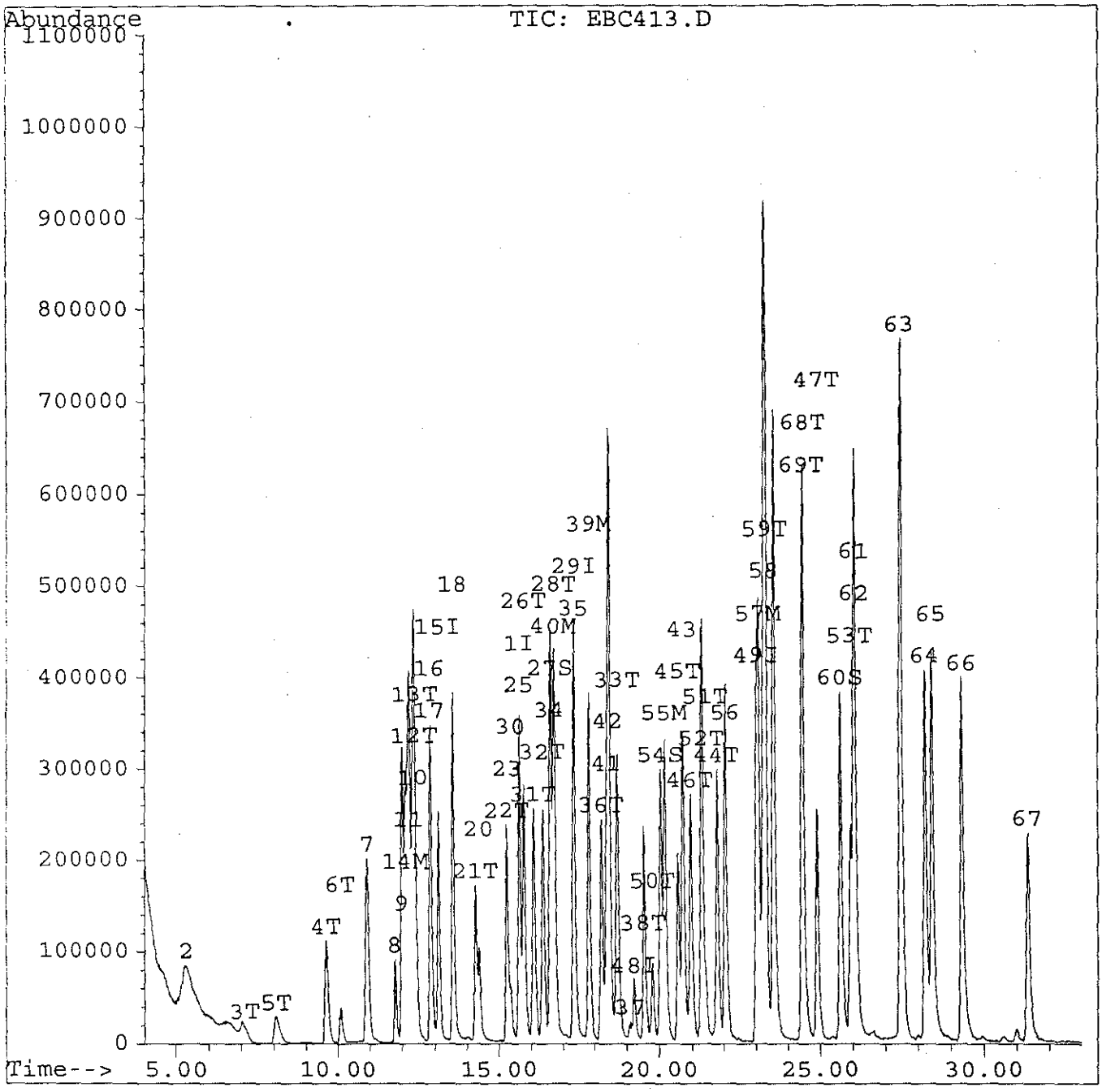
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
40)	Benzene	16.71	78	232814	21.61	ug/l		100
41)	Methylmethacrylate	18.37	41	150051	45.18	ug/l	#	13
42)	Dibromomethane	18.44	174	331918	51.53	ug/l	#	78
43)	Ethylmethacrylate	20.73	69	255320	48.61	ug/l		92
44)	Dibromochloromethane	21.79	129	186733	20.22	ug/l		98
45)	trans-1,3-Dichloropropene	20.57	75	131137	20.27	ug/l		67
46)	1,1,2-Trichloroethane	20.95	97	100951	20.85	ug/l	m	39
47)	Bromoform	24.90	173	143343	19.62	ug/l		99
48)	2-Chloroethylvinylether	19.21	63	30380	20.22	ug/l		85
50)	4-Methyl-2-Pentanone	19.78	43	67709	17.52	ug/l		91
51)	2-Hexanone	21.42	43	41082	17.36	ug/l	#	56
52)	Tetrachloroethene	21.29	164	151812	21.88	ug/l		98
53)	1,1,2,2-Tetrachloroethane	25.92	83	174788	20.16	ug/l		99
55)	Toluene	20.18	92	159500	20.84	ug/l		93
56)	1,2-Dibromoethane	22.04	107	403674	49.69	ug/l		97
57)	Chlorobenzene	23.07	112	242342	21.60	ug/l		98
58)	1,1,1,2-Tetrachloroethane	23.24	131	380028	52.84	ug/l	#	75
59)	Ethylbenzene	23.29	106	100523	21.57	ug/l	#	
61)	trans-1,4-Dichloro-2-buten	26.05	89	49742	43.27	ug/l	#	
62)	1,2,3-Trichloropropane	26.04	75	379813	47.90	ug/l		96
63)	Pentachloroethane	27.45	167	268960	51.49	ug/l		96
64)	1,3-Dichlorobenzene	28.20	146	244837	21.46	ug/l	m	96
65)	1,4-Dichlorobenzene	28.41	146	274763	22.55	ug/l	m	97
66)	1,2-Dichlorobenzene	29.31	146	244570	21.38	ug/l		99
67)	1,2-Dibromo-3-chloropropan	31.32	157	107805	42.15	ug/l	m	48
68)	Styrene	24.45	104	212336	20.58	ug/l		80
69)	Xylene (total)	24.41	91	312477	21.28	ug/l	m	27

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR1395A\EBC413.D Vial: 3
Acq On : 13 Apr 95 7:19 pm Operator:
Sample : STD50++ EAB413 Inst : gcms5
Misc : GCL#5,DIL=1,5ML OFW +5ULIS,5ULSS+2.5UL25 Multiplr: 1.00
Quant Time: Apr 15 13:22 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 15 13:10:08 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR1395A\EBC413.D Vial: 3
Acq On : 13 Apr 95 7:19 pm Operator:
Sample : STD50++ EAB413 Inst : gcms5
Misc : GCL#5,DIL=1,5ML OFW +5ULIS,5ULSS+2.5UL25 Multiplr: 1.00
Quant Time: Apr 15 13:22 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 15 13:10:08 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	15.64	128	191744	50.00	ug/l		0.00
29) 1,4-Difluorobenzene	17.34	114	732183	50.00	ug/l		0.00
49) Chlorobenzene-d5	23.00	117	618315	50.00	ug/l		0.00
System Monitoring Compounds							%Recovery
27) 1,2-Dichloroethane-d4	16.61	65	317890	50.00	ug/l		100.00%
54) Toluene-d8	20.05	98	603883	50.00	ug/l		100.00%
60) Bromofluorobenzene	25.62	95	473781	50.00	ug/l		100.00%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	5.31	85	621340	49.96	ug/l	m	93
3) Chloromethane	7.10	50	132509	50.04	ug/l	m	40
4) Bromomethane	9.63	94	284716	50.00	ug/l		97
5) Vinyl Chloride	8.06	62	201006	50.00	ug/l		78
6) Chloroethane	10.08	64	116974	50.00	ug/l		100
7) Trichlorofluoromethane	10.89	101	607823	50.00	ug/l	#	57
8) Ethyl Ether	11.79	59	140398	50.00	ug/l		98
9) Acrolein	12.00	56	1052732	2000.00	ug/l		9[illegible]
10) Iodomethane	12.35	142	1372608	100.00	ug/l		9[illegible]
11) Trichlorotrifluoroethane	12.21	101	547985	50.00	ug/l		95
12) Acetone	12.38	43	47065	51.79	ug/l	m	98
13) Carbon Disulfide	12.41	76	482280	50.00	ug/l		100
14) 1,1-Dichloroethene	12.11	96	204856	50.00	ug/l		97
15) Methylene Chloride	13.10	84	305344	50.00	ug/l		98
16) 3-Chloropropene	12.85	76	195747	100.00	ug/l	#	1
17) Acetonitrile	12.85	41	624000	400.00	ug/l	#	86
18) Acrylonitrile	13.56	53	288981	400.00	ug/l	#	89
20) Vinyl Acetate	14.37	43	360280	50.00	ug/l	#	79
21) 1,1-Dichloroethane	14.27	63	427096	50.00	ug/l		98
22) 1,2-Dichloroethene (total)	15.24	96	512277	99.94	ug/l	m	98
23) 2-Butanone	15.29	43	73214	50.00	ug/l	#	94
25) Methacrylonitrile	15.61	41	176145	100.00	ug/l		97
26) Chloroform	15.77	83	561675	50.00	ug/l		98
28) 1,2-Dichloroethane	16.73	62	385224	50.00	ug/l		99
30) Propionitrile	15.37	54	114145	400.00	ug/l	#	81
31) 1,1,1-Trichloroethane	16.07	97	488831	50.00	ug/l		99
32) Carbon Tetrachloride	16.36	117	461137	50.00	ug/l		98
33) Bromodichloromethane	18.71	83	554299	50.00	ug/l		99
34) Isobutanol	16.60	43	506564	4000.00	ug/l	#	83
35) Crotononitrile	17.34	67	126984	400.00	ug/l	#	1
36) 1,2-Dichloropropane	18.22	63	256061	50.00	ug/l		99
37) 2-Nitropropane	19.10	43	33482	50.00	ug/l		97
38) cis-1,3-Dichloropropene	19.53	75	394542	50.00	ug/l		10[illegible]
39) Trichloroethene	17.82	130	379807	50.00	ug/l		9[illegible]

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

Data File : C:\HPCHEM\1\DATA\APR1395A\EBC413.D Vial: 3
Acq On : 13 Apr 95 7:19 pm Operator:
Sample : STD50++ EAB413 Inst : gcms5
Misc : GCL#5,DIL=1,5ML OFW +5ULIS,5ULSS+2.5UL25 Multiplr: 1.00
Quant Time: Apr 15 13:22 1995

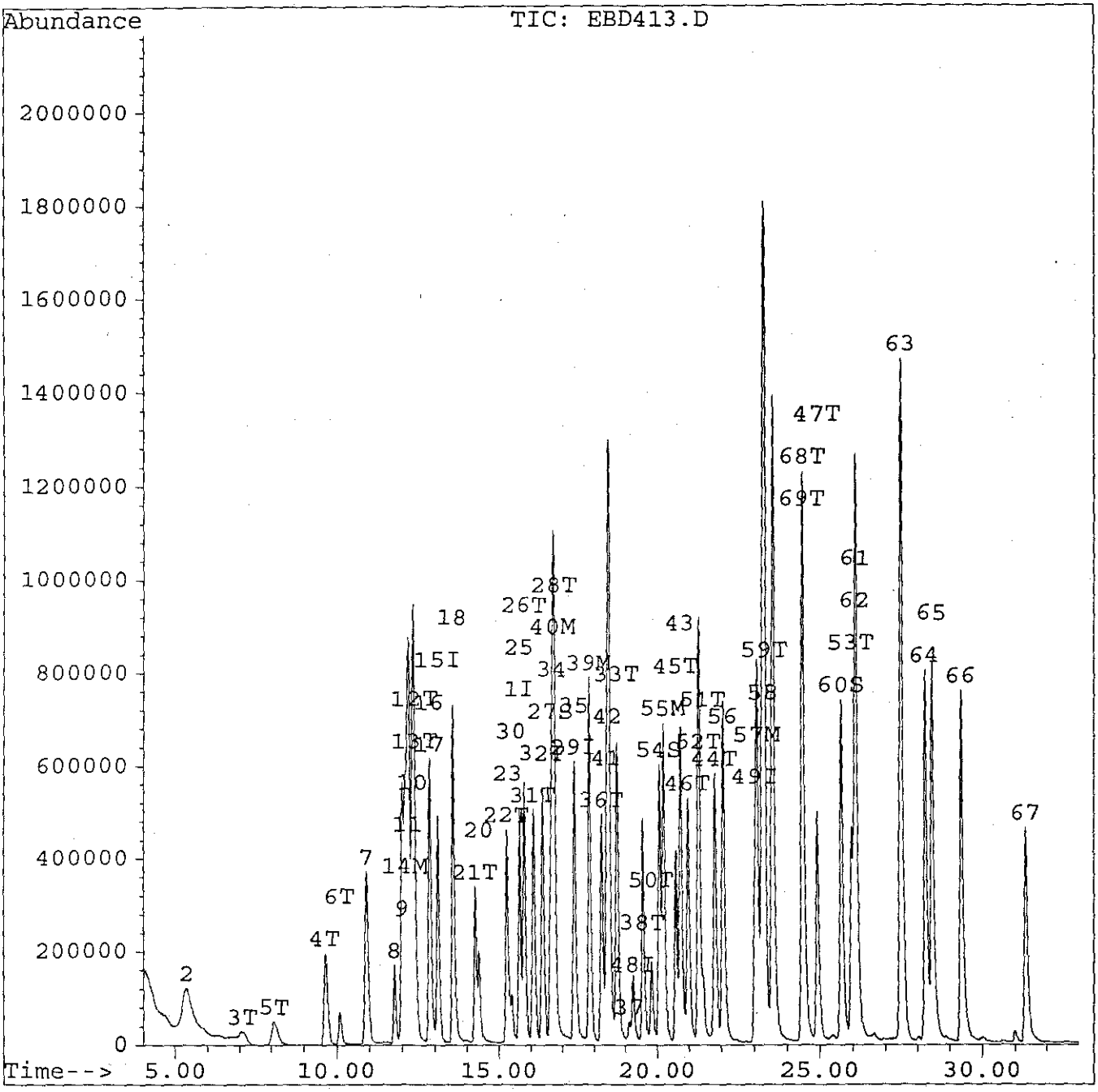
Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 15 13:10:08 1995
Response via : Single Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
40)	Benzene	16.70	78	576608	50.00	ug/l		100
41)	Methylmethacrylate	18.37	41	355445	100.00	ug/l	#	14
42)	Dibromomethane	18.44	174	689496	100.00	ug/l	#	58
43)	Ethylmethacrylate	20.72	69	562185	100.00	ug/l		93
44)	Dibromochloromethane	21.79	129	494329	50.00	ug/l		99
45)	trans-1,3-Dichloropropene	20.57	75	346148	50.00	ug/l		98
46)	1,1,2-Trichloroethane	20.97	97	259163	50.00	ug/l		98
47)	Bromoform	24.90	173	391093	50.00	ug/l		99
48)	2-Chloroethylvinylether	19.22	63	80413	50.00	ug/l	#	46
50)	4-Methyl-2-Pentanone	19.78	43	200577	49.35	ug/l	m	61
51)	2-Hexanone	21.43	43	124434	50.00	ug/l		86
52)	Tetrachloroethene	21.29	164	364934	50.00	ug/l		96
53)	1,1,2,2-Tetrachloroethane	25.92	83	456885	50.10	ug/l	m	1
55)	Toluene	20.18	92	402491	50.00	ug/l		91
56)	1,2-Dibromoethane	22.04	107	854514	100.00	ug/l		98
57)	Chlorobenzene	23.07	112	590169	50.00	ug/l		97
58)	1,1,1,2-Tetrachloroethane	23.23	131	756562	100.00	ug/l		100
59)	Ethylbenzene	23.28	106	245066	50.00	ug/l	#	86
61)	trans-1,4-Dichloro-2-buten	26.05	89	120917	100.00	ug/l	#	1
62)	1,2,3-Trichloropropane	26.05	75	834103	100.00	ug/l	#	90
63)	Pentachloroethane	27.46	167	549458	100.00	ug/l		96
64)	1,3-Dichlorobenzene	28.20	146	600031	50.00	ug/l		100
65)	1,4-Dichlorobenzene	28.41	146	640720	50.00	ug/l		97
66)	1,2-Dichlorobenzene	29.32	146	601523	50.00	ug/l	#	96
67)	1,2-Dibromo-3-chloropropan	31.34	157	269022	100.00	ug/l	#	86
68)	Styrene	24.46	104	542743	50.00	ug/l		81
69)	Xylene (total)	24.42	91	772455	50.00	ug/l	#	1

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

Data File : C:\HPCHEM\1\DATA\APR1395A\EBD413.D Vial: 4
Acq On : 13 Apr 95 7:58 pm Operator:
Sample : STD100+ EAB413 Inst : gcms5
Misc : GCL#5,DIL=1,5ML OFW +5ULIS,10ULSS+5UL257 Multiplr: 1.00
Quant Time: Apr 15 13:36 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 15 13:37:09 1995
Response via : Single Level Calibration



Data File : C:\HPCHEM\1\DATA\APR1395A\EBD413.D Vial: 4
Acq On : 13 Apr 95 7:58 pm Operator:
Sample : STD100+ EAB413 Inst : gcms5
Misc : GCL#5,DIL=1,5ML OFW +5ULIS,10ULSS+5UL257 Multiplr: 1.00
Quant Time: Apr 15 13:36 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 15 13:37:09 1995
Response via : Single Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
40)	Benzene	16.71	78	1143760	96.00	ug/l		100
41)	Methylmethacrylate	18.38	41	726309	197.79	ug/l	#	15
42)	Dibromomethane	18.45	174	1283381	180.17	ug/l		85
43)	Ethylmethacrylate	20.73	69	1193490	205.50	ug/l		96
44)	Dibromochloromethane	21.81	129	1020313	99.90	ug/l		99
45)	trans-1,3-Dichloropropene	20.58	75	709567	99.21	ug/l		98
46)	1,1,2-Trichloroethane	20.97	97	520517	97.21	ug/l		98
47)	Bromoform	24.93	173	768688	95.13	ug/l		99
48)	2-Chloroethylvinylether	19.22	63	178116	107.20	ug/l		86
50)	4-Methyl-2-Pentanone	19.80	43	402133	96.58	ug/l	m	95
51)	2-Hexanone	21.45	43	244057	95.73	ug/l	m	59
52)	Tetrachloroethene	21.30	164	710653	95.05	ug/l	m	96
53)	1,1,2,2-Tetrachloroethane	25.96	83	920663	98.56	ug/l	m	100
55)	Toluene	20.18	92	828912	100.52	ug/l	m	92
56)	1,2-Dibromoethane	22.06	107	1709954	195.35	ug/l	m	98
57)	Chlorobenzene	23.09	112	1203550	99.54	ug/l	m	99
58)	1,1,1,2-Tetrachloroethane	23.27	131	1443185	186.22	ug/l	m	99
59)	Ethylbenzene	23.31	106	482336	96.07	ug/l	m	58
61)	trans-1,4-Dichloro-2-buten	26.09	89	241169	194.71	ug/l	m	1
62)	1,2,3-Trichloropropane	26.07	75	1650057	193.12	ug/l	m	99
63)	Pentachloroethane	27.47	167	1072468	190.54	ug/l	m	90
64)	1,3-Dichlorobenzene	28.23	146	1162900	94.60	ug/l	m	97
65)	1,4-Dichlorobenzene	28.45	146	1279365	97.46	ug/l	m	97
66)	1,2-Dichlorobenzene	29.35	146	1186673	96.29	ug/l	m	99
67)	1,2-Dibromo-3-chloropropan	31.35	157	543034	197.05	ug/l	m	62
68)	Styrene	24.48	104	1071957	96.40	ug/l	m	78
69)	Xylene (total)	24.44	91	1554325	98.22	ug/l	m	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR1395A\EBD413.D Vial: 4
Acq On : 13 Apr 95 7:58 pm Operator:
Sample : STD100+ EAB413 Inst : gcms5
Misc : GCL#5,DIL=1,5ML OFW +5ULIS,10ULSS+5UL257 Multiplr: 1.00
Quant Time: Apr 15 13:36 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 15 13:37:09 1995
Response via : Single Level Calibration

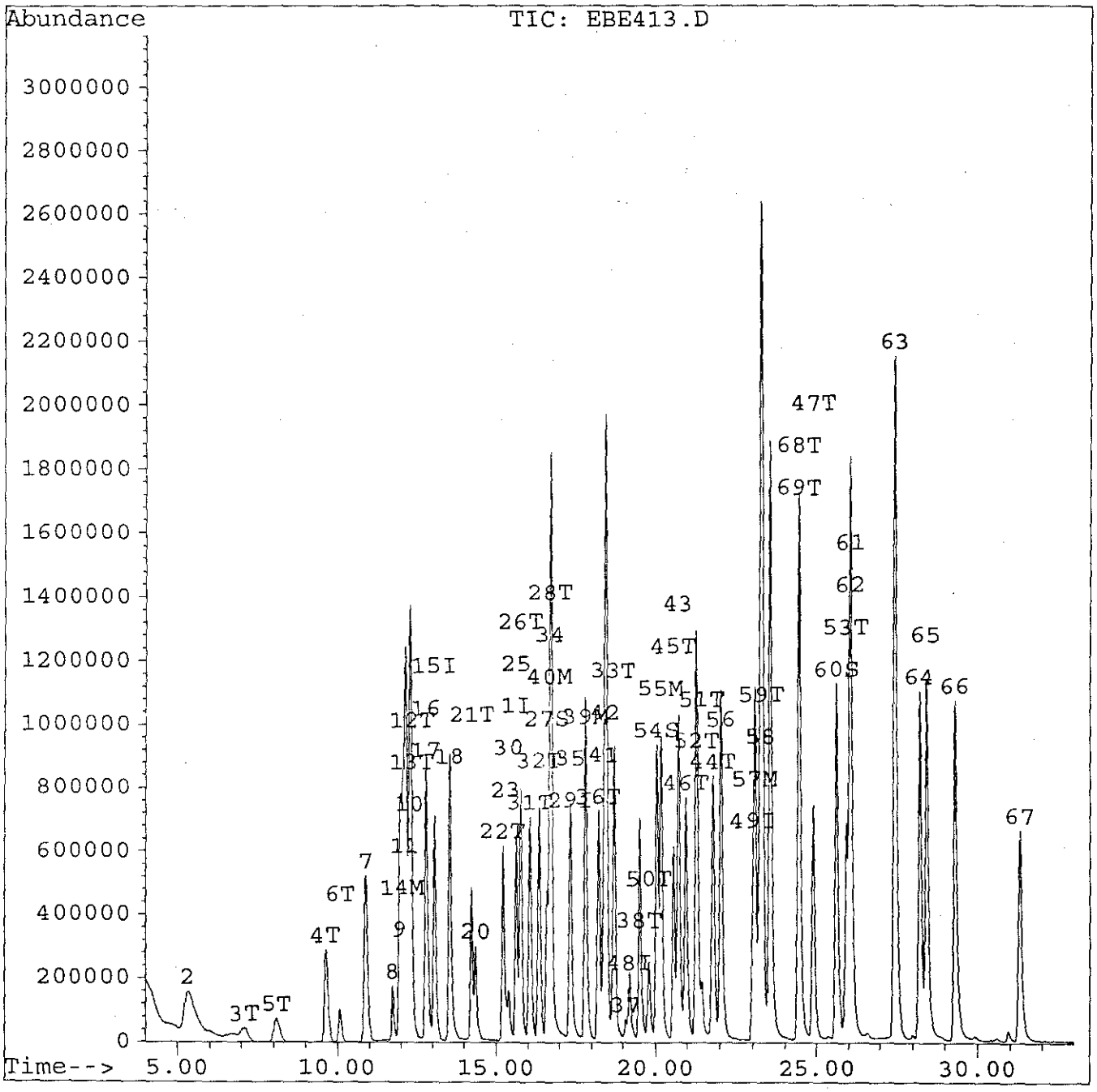
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	15.62	128	191979	50.00	ug/l		-0.02
29) 1,4-Difluorobenzene	17.34	114	756410	50.00	ug/l		0.00
49) Chlorobenzene-d5	23.03	117	633380	50.00	ug/l		0.03
System Monitoring Compounds							**%Recovery**
27) 1,2-Dichloroethane-d4	16.61	65	584361	91.80	ug/l		183.60%
54) Toluene-d8	20.07	98	1215366	98.24	ug/l		196.47%
60) Bromofluorobenzene	25.65	95	958292	98.73	ug/l		197.45%
Target Compounds							**Qvalue**
2) Dichlorodifluoromethane	5.36	85	1130325	90.78	ug/l	m	94
3) Chloromethane	7.10	50	210704	79.47	ug/l	m	69
4) Bromomethane	9.64	94	529951	92.95	ug/l		98
5) Vinyl Chloride	8.07	62	388860	96.61	ug/l		67
6) Chloroethane	10.10	64	224992	96.05	ug/l		98
7) Trichlorofluoromethane	10.91	101	1142198	93.84	ug/l	m	23
8) Ethyl Ether	11.77	59	278076	98.91	ug/l		99
9) Acrolein	11.99	56	1923078	3649.03	ug/l		9[illegible]
10) Iodomethane	12.33	142	2746510	199.85	ug/l		9[illegible]
11) Trichlorotrifluoroethane	12.18	101	1143295	104.19	ug/l		96
12) Acetone	12.39	43	94534	103.91	ug/l	m	38
13) Carbon Disulfide	12.39	76	998081	103.35	ug/l		100
14) 1,1-Dichloroethene	12.09	96	409704	99.88	ug/l		96
15) Methylene Chloride	13.09	84	616861	100.89	ug/l		96
16) 3-Chloropropene	12.84	76	390427	199.21	ug/l	#	1
17) Acetonitrile	12.84	41	1216239	778.69	ug/l	#	83
18) Acrylonitrile	13.56	53	603694	834.59	ug/l		92
20) Vinyl Acetate	14.37	43	721315	99.98	ug/l	#	78
21) 1,1-Dichloroethane	14.25	63	847116	99.05	ug/l		99
22) 1,2-Dichloroethene (total)	15.22	96	1030465	200.78	ug/l	m	97
23) 2-Butanone	15.31	43	163536	111.55	ug/l		96
25) Methacrylonitrile	15.63	41	387674	219.82	ug/l		94
26) Chloroform	15.78	83	1147176	102.00	ug/l		97
28) 1,2-Dichloroethane	16.74	62	767802	99.53	ug/l		100
30) Propionitrile	15.39	54	232691	789.31	ug/l	#	96
31) 1,1,1-Trichloroethane	16.08	97	975819	96.61	ug/l		100
32) Carbon Tetrachloride	16.36	117	953212	100.04	ug/l		98
33) Bromodichloromethane	18.71	83	1152916	100.67	ug/l		100
34) Isobutanol	16.67	43	1029226	7866.81	ug/l		85
35) Crotononitrile	17.36	67	265316	808.98	ug/l	#	1
36) 1,2-Dichloropropane	18.21	63	526765	99.56	ug/l		100
37) 2-Nitropropane	19.11	43	69226	100.07	ug/l	#	64
38) cis-1,3-Dichloropropene	19.52	75	815148	99.99	ug/l		[illegible]
39) Trichloroethene	17.82	130	771544	98.32	ug/l		[illegible]

(#) = qualifier out of range (m) = manual integration
EBD413.D 82405.M Sat Apr 15 13:38:20 1995 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR1395A\EBE413.D Vial: 5
Acq On : 13 Apr 95 8:43 pm Operator:
Sample : STD150+ EAB413 Inst : gcms5
Misc : GCL#5,DIL=1,5ML OFW +5ULIS,15ULSS+7.5UL2 Multiplr: 1.00
Quant Time: Apr 15 13:00 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 15 12:55:04 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR1395A\EBE413.D Vial: 5
Acq On : 13 Apr 95 8:43 pm Operator:
Sample : STD150+ EAB413 Inst : gcms5
Misc : GCL#5,DIL=1,5ML OFW +5ULIS,15ULSS+7.5UL2 Multiplr: 1.00
Quant Time: Apr 15 13:00 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 15 12:55:04 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	15.60	128	205614	50.00	ug/l		-0.03
29) 1,4-Difluorobenzene	17.30	114	796153	50.00	ug/l		-0.03
49) Chlorobenzene-d5	23.00	117	642165	50.00	ug/l		0.00
System Monitoring Compounds							%Recovery
27) 1,2-Dichloroethane-d4	16.58	65	983360	144.24	ug/l		288.47%
54) Toluene-d8	20.02	98	1943874	154.97	ug/l		309.94%
60) Bromofluorobenzene	25.61	95	1456278	147.98	ug/l		295.96%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	5.32	85	1593316	119.48	ug/l	m	42
3) Chloromethane	7.09	50	348848	122.85	ug/l	m	67
4) Bromomethane	9.62	94	809079	132.50	ug/l	#	50
5) Vinyl Chloride	8.08	62	578282	134.14	ug/l	m	94
6) Chloroethane	10.07	64	336142	133.99	ug/l		98
7) Trichlorofluoromethane	10.89	101	1649131	126.51	ug/l		98
8) Ethyl Ether	11.72	59	284023	94.33	ug/l		97
9) Acrolein	11.95	56	2991783	5300.43	ug/l		9[illegible]
10) Iodomethane	12.28	142	4207655	285.87	ug/l		9[illegible]
11) Trichlorotrifluoroethane	12.13	101	1644504	139.93	ug/l		94
12) Acetone	12.36	43	122649	125.87	ug/l		96
13) Carbon Disulfide	12.34	76	1423976	137.67	ug/l		100
14) 1,1-Dichloroethene	12.03	96	576868	131.30	ug/l		97
15) Methylene Chloride	13.06	84	914491	139.65	ug/l		95
16) 3-Chloropropene	12.80	76	599494	285.60	ug/l	#	1
17) Acetonitrile	12.79	41	1788509	1069.14	ug/l	#	82
18) Acrylonitrile	13.55	53	923823	1192.47	ug/l		91
20) Vinyl Acetate	14.36	43	1120022	144.95	ug/l	#	80
21) 1,1-Dichloroethane	14.22	63	1240606	135.44	ug/l		98
22) 1,2-Dichloroethene (total)	15.20	96	1463022	266.16	ug/l	m	82
23) 2-Butanone	15.31	43	220977	140.73	ug/l	#	88
25) Methacrylonitrile	15.61	41	606521	321.10	ug/l		97
26) Chloroform	15.76	83	1648315	136.83	ug/l		97
28) 1,2-Dichloroethane	16.71	62	1112020	134.60	ug/l		100
30) Propionitrile	15.38	54	369499	1190.80	ug/l		99
31) 1,1,1-Trichloroethane	16.05	97	1378049	129.63	ug/l		99
32) Carbon Tetrachloride	16.33	117	1382652	137.87	ug/l		99
33) Bromodichloromethane	18.69	83	1666141	138.22	ug/l		99
34) Isobutanol	16.71	43	1535871	11153.30	ug/l		86
35) Crotononitrile	17.34	67	412705	1195.57	ug/l	#	1
36) 1,2-Dichloropropane	18.20	63	774799	139.14	ug/l		100
37) 2-Nitropropane	19.07	43	115975	159.27	ug/l	#	94
38) cis-1,3-Dichloropropene	19.50	75	1208653	140.86	ug/l		10[illegible]
39) Trichloroethene	17.79	130	1089359	131.89	ug/l		[illegible]

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

Data File : C:\HPCHEM\1\DATA\APR1395A\EBE413.D Vial: 5
Acq On : 13 Apr 95 8:43 pm Operator:
Sample : STD150+ EAB413 Inst : gcms5
Misc : GCL#5,DIL=1,5ML OFW +5ULIS,15ULSS+7.5UL2 Multiplr: 1.00
Quant Time: Apr 15 13:00 1995

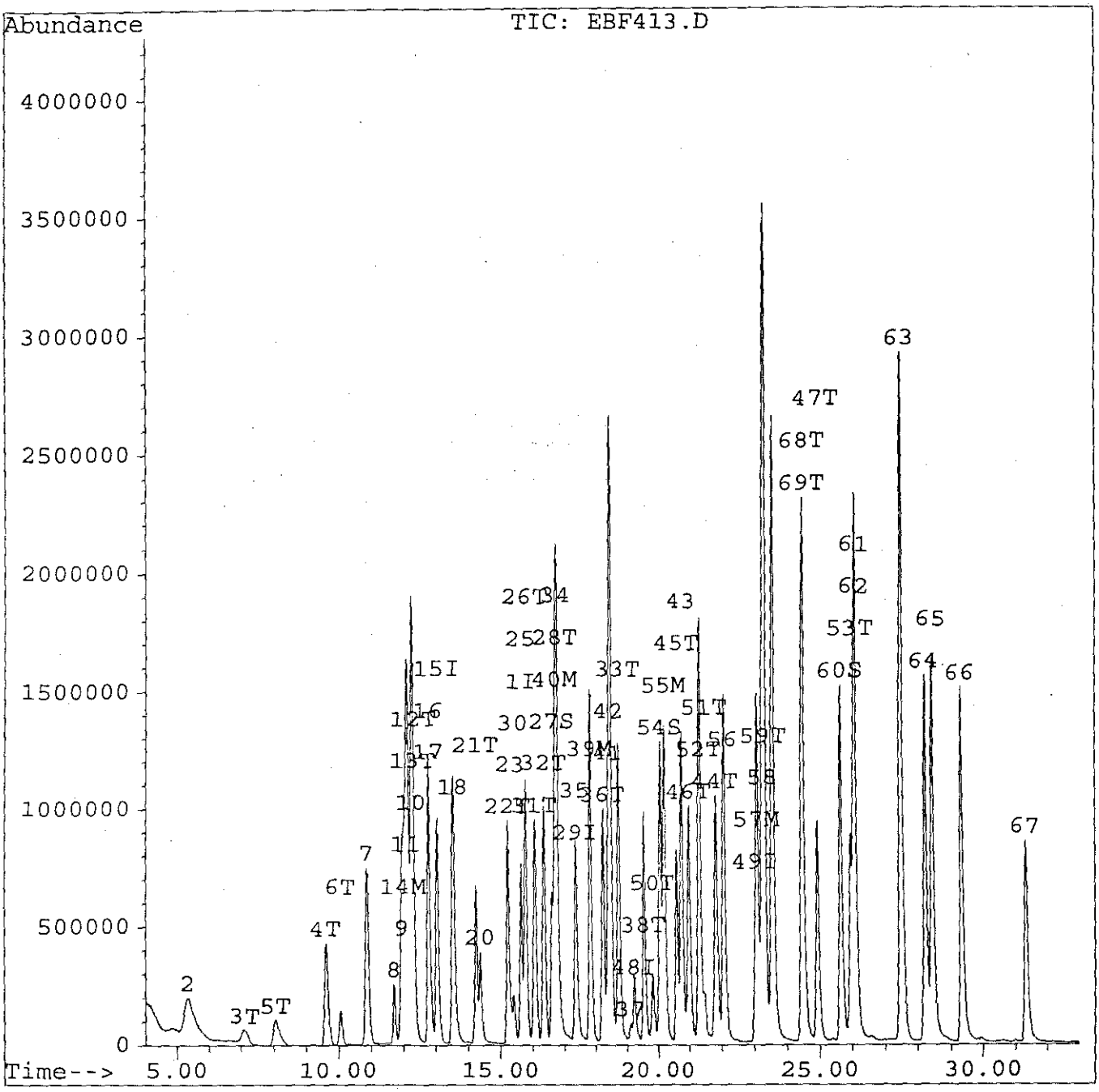
Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 15 12:55:04 1995
Response via : Single Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
40)	Benzene	16.67	78	1709392	136.32	ug/l		100
41)	Methylmethacrylate	18.37	41	1091579	282.43	ug/l	#	17
42)	Dibromomethane	18.42	174	1974587	263.37	ug/l		83
43)	Ethylmethacrylate	20.71	69	1800933	294.61	ug/l		97
44)	Dibromochloromethane	21.77	129	1507542	140.23	ug/l		99
45)	trans-1,3-Dichloropropene	20.56	75	1056279	140.32	ug/l		99
46)	1,1,2-Trichloroethane	20.94	97	779318	138.27	ug/l		99
47)	Bromoform	24.89	173	1175158	138.17	ug/l		100
48)	2-Chloroethylvinylether	19.20	63	266721	152.52	ug/l		91
50)	4-Methyl-2-Pentanone	19.78	43	596974	141.42	ug/l	m	95
51)	2-Hexanone	21.44	43	375987	145.47	ug/l	m	90
52)	Tetrachloroethene	21.26	164	1016858	134.15	ug/l	m	96
53)	1,1,2,2-Tetrachloroethane	25.93	83	1350215	142.57	ug/l	m	100
55)	Toluene	20.16	92	1206658	144.33	ug/l	m	92
56)	1,2-Dibromoethane	22.02	107	2592647	292.14	ug/l	m	43
57)	Chlorobenzene	23.05	112	1748634	142.64	ug/l	m	98
58)	1,1,1,2-Tetrachloroethane	23.23	131	2160757	274.99	ug/l	m	99
59)	Ethylbenzene	23.27	106	674091	132.42	ug/l	m	61
61)	trans-1,4-Dichloro-2-buten	26.05	89	362905	288.98	ug/l	m	1
62)	1,2,3-Trichloropropane	26.05	75	2425248	279.96	ug/l	m	97
63)	Pentachloroethane	27.46	167	1616152	283.21	ug/l	m	97
64)	1,3-Dichlorobenzene	28.20	146	1653303	132.65	ug/l	m	98
65)	1,4-Dichlorobenzene	28.41	146	1812346	136.18	ug/l	m	99
66)	1,2-Dichlorobenzene	29.33	146	1731671	138.59	ug/l	m	1
67)	1,2-Dibromo-3-chloropropan	31.32	157	810903	290.23	ug/l	m	87
68)	Styrene	24.45	104	1567837	139.07	ug/l	m	80
69)	Xylene (total)	24.41	91	2214004	137.99	ug/l	m	1

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

Data File : C:\HPCHEM\1\DATA\APR1395A\EBF413.D Vial: 6
Acq On : 13 Apr 95 9:22 pm Operator:
Sample : STD200+ EAB413 Inst : gcms5
Misc : GCL#5,DIL=1,5ML OFW +5ULIS,20ULSS+10UL25 Multiplr: 1.00
Quant Time: Apr 15 13:09 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 15 13:10:08 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR1395A\EBF413.D Vial: 6
Acq On : 13 Apr 95 9:22 pm Operator:
Sample : STD200+ EAB413 Inst : gcms5
Misc : GCL#5,DIL=1,5ML OFW +5ULIS,20ULSS+10UL25 Multiplr: 1.00
Quant Time: Apr 15 13:09 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 15 13:10:08 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min
1) Bromochloromethane	15.61	128	220717	50.00	ug/l		-0.03
29) 1,4-Difluorobenzene	17.32	114	853218	50.00	ug/l		-0.02
49) Chlorobenzene-d5	23.01	117	681192	50.00	ug/l		0.00
System Monitoring Compounds							%Recovery
27) 1,2-Dichloroethane-d4	16.59	65	1318180	180.12	ug/l		360.23
54) Toluene-d8	20.05	98	2697915	202.76	ug/l		405.52
60) Bromofluorobenzene	25.64	95	2016114	193.13	ug/l		386.26
Target Compounds							Qvalue
2) Dichlorodifluoromethane	5.31	85	2184705	152.62	ug/l	m	97
3) Chloromethane	7.10	50	519718	170.49	ug/l	m	40
4) Bromomethane	9.60	94	1156593	176.45	ug/l		98
5) Vinyl Chloride	8.05	62	824942	178.27	ug/l	m	39
6) Chloroethane	10.05	64	465519	172.86	ug/l		99
7) Trichlorofluoromethane	10.87	101	2302128	164.52	ug/l		99
8) Ethyl Ether	11.70	59	391611	121.16	ug/l		97
9) Acrolein	11.94	56	2141914	3535.09	ug/l		96
10) Iodomethane	12.25	142	5696702	360.55	ug/l	m	42
11) Trichlorotrifluoroethane	12.10	101	2142613	169.84	ug/l	#	72
12) Acetone	12.34	43	158300	151.34	ug/l		97
13) Carbon Disulfide	12.31	76	1935088	174.28	ug/l		100
14) 1,1-Dichloroethene	12.01	96	669871	142.04	ug/l	#	84
15) Methylene Chloride	13.04	84	1275235	181.41	ug/l		93
16) 3-Chloropropene	12.77	76	821523	364.59	ug/l	#	1
17) Acetonitrile	12.77	41	2350110	1308.73	ug/l	#	82
18) Acrylonitrile	13.55	53	1241411	1492.77	ug/l		92
20) Vinyl Acetate	14.35	43	1470581	177.30	ug/l	#	80
21) 1,1-Dichloroethane	14.23	63	1739093	176.87	ug/l		99
22) 1,2-Dichloroethene (total)	15.21	96	2174381	368.51	ug/l	m	99
23) 2-Butanone	15.31	43	302550	179.50	ug/l	#	91
25) Methacrylonitrile	15.63	41	791093	390.16	ug/l		97
26) Chloroform	15.76	83	2318445	179.29	ug/l		9
28) 1,2-Dichloroethane	16.72	62	1525562	172.02	ug/l		10
30) Propionitrile	15.39	54	490187	1474.09	ug/l		9
31) 1,1,1-Trichloroethane	16.05	97	1897220	166.53	ug/l		9
32) Carbon Tetrachloride	16.34	117	1861090	173.17	ug/l		9
33) Bromodichloromethane	18.70	83	2292343	177.45	ug/l		9
34) Isobutanol	16.74	43	1890801	12812.42	ug/l	#	
35) Crotononitrile	17.34	67	553457	1496.08	ug/l	#	
36) 1,2-Dichloropropane	18.21	63	1081446	181.21	ug/l		9
37) 2-Nitropropane	19.09	43	138365	177.31	ug/l		9
38) cis-1,3-Dichloropropene	19.52	75	1672979	181.94	ug/l		9
39) Trichloroethene	17.81	130	1541004	174.09	ug/l		9

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR1395A\EBF413.D Vial: 6
Acq On : 13 Apr 95 9:22 pm Operator:
Sample : STD200+ EAB413 Inst : gcms5
Misc : GCL#5,DIL=1,5ML OFW +5ULIS,20ULSS+10UL25 Multiplr: 1.00
Quant Time: Apr 15 13:09 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Sat Apr 15 13:10:08 1995
Response via : Single Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
40)	Benzene	16.68	78	2412565	179.53	ug/l		100
41)	Methylmethacrylate	18.37	41	1386410	334.72	ug/l	#	18
42)	Dibromomethane	18.43	174	2683470	333.98	ug/l		83
43)	Ethylmethacrylate	20.73	69	2416181	368.82	ug/l		98
44)	Dibromochloromethane	21.80	129	2047492	177.72	ug/l		99
45)	trans-1,3-Dichloropropene	20.57	75	1432088	177.52	ug/l		98
46)	1,1,2-Trichloroethane	20.96	97	1056254	174.87	ug/l		98
47)	Bromoform	24.91	173	1549635	170.01	ug/l		99
48)	2-Chloroethylvinylether	19.20	63	372125	198.56	ug/l		93
50)	4-Methyl-2-Pentanone	19.81	43	758688	169.43	ug/l	m	95
51)	2-Hexanone	21.46	43	460198	167.85	ug/l	m	92
52)	Tetrachloroethene	21.29	164	1426352	177.39	ug/l	m	96
53)	1,1,2,2-Tetrachloroethane	25.94	83	1750371	174.24	ug/l	m	99
55)	Toluene	20.17	92	1705251	192.28	ug/l	m	94
56)	1,2-Dibromoethane	22.04	107	3496722	371.43	ug/l	m	98
57)	Chlorobenzene	23.07	112	2449251	188.35	ug/l	m	35
58)	1,1,1,2-Tetrachloroethane	23.25	131	2933402	351.94	ug/l	m	80
59)	Ethylbenzene	23.29	106	940487	174.17	ug/l	m	5
61)	trans-1,4-Dichloro-2-buten	26.07	89	458737	344.36	ug/l	m	
62)	1,2,3-Trichloropropane	26.06	75	3154326	343.26	ug/l	m	98
63)	Pentachloroethane	27.47	167	2243408	370.61	ug/l	m	97
64)	1,3-Dichlorobenzene	28.21	146	2366210	178.97	ug/l	m	98
65)	1,4-Dichlorobenzene	28.42	146	2609536	184.84	ug/l	m	99
66)	1,2-Dichlorobenzene	29.33	146	2428689	183.24	ug/l	m	100
67)	1,2-Dibromo-3-chloropropan	31.33	157	1066787	359.94	ug/l	m	85
68)	Styrene	24.46	104	2202071	184.14	ug/l	m	81
69)	Xylene (total)	24.44	91	3088561	181.47	ug/l	m	1

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

Gulf Coast

INITIAL CALIBRATION DATA

Start Cal Date : 27-JUL-93 14:25
End Cal Date : 17-APR-1995 20:50
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/gcl2.i/950417.b/8240s2.m
Cal Date : 20-Apr-1995 11:10 ogormanj
Curve Type : Average

Calibration File Names:
Level 1: /chem/gcl2.i/950417.b/yh417.d
Level 2: /chem/gcl2.i/950417.b/ya417.d
Level 3: /chem/gcl2.i/950417.b/yc417.d
Level 4: /chem/gcl2.i/950417.b/yd417.d
Level 5: /chem/gcl2.i/950417.b/byg417.d

	Compound	20 Level 1	50 Level 2	100 Level 3	150 Level 4	200 Level 5	___ RRF	% RSD
	Dichlorodifluoromethane	1.10804	1.18001	1.66308	1.76466	1.89605	1.52237	23.386
2	Chloromethane	2.70135	2.48296	2.62588	2.89176	2.51835	2.64406	6.178
3	Vinyl Chloride	2.47829	2.08308	2.25785	2.36835	2.09028	2.25557	7.660
4	Bromomethane	2.04665	1.58481	1.62101	1.75589	1.45472	1.69262	13.299
5	Chloroethane	0.99183	0.86114	0.86172	0.82066	0.87274	0.88162	7.341
6	Trichlorofluoromethane	1.55840	0.70644	0.77644	0.93973	0.98760	0.99372	33.812
7	Methyl-tert-butylether	+++++	+++++	+++++	+++++	+++++	+++++	+++++
8	Acrolein	0.39754	0.31190	0.27304	0.22490	0.07472	0.25642	46.667
9	1,1-Dichloroethene	1.72548	1.21040	1.08206	0.85807	1.28966	1.23313	25.951
10	Trichlorotrifluoroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++
11	Acetone	1.26979	0.77998	0.72432	0.82789	0.57108	0.83461	31.360
12	Iodomethane	3.95079	2.77083	2.56593	2.46809	2.20253	2.79164	24.340
13	Carbon Disulfide	5.22263	4.13809	4.13537	3.70257	3.43550	4.12683	16.519
14	3-Chloropropene	1.03686	0.72517	0.72626	0.62445	0.60794	0.74414	23.202
15	Acetonitrile	1.66559	1.14072	0.87656	0.90643	0.89562	1.09699	30.598
16	Methylene Chloride	2.02792	1.69975	1.82552	1.58547	1.09081	1.64589	21.327
17	Acrylonitrile	0.73868	0.49275	0.50408	0.45874	0.44402	0.52766	22.831
18	1,2-Dichloroethene (total)	3.04455	2.06289	1.58640	1.48725	1.27318	1.89085	37.375
19	1,1-Dichloroethane	4.77397	3.33026	3.45646	3.87416	3.35102	3.75717	16.218
20	Vinyl acetate	2.06575	1.54523	1.18714	1.90910	1.70420	1.68228	20.222
21	Ethyl ether	+++++	+++++	+++++	+++++	+++++	+++++	+++++
22	cis-1,2-Dichloroethene	2.27226	1.97746	1.98493	1.91191	1.62885	1.95508	11.728
23	2-Butanone	4.33382	1.88368	1.86268	2.19273	2.05803	2.46619	42.686
24	Propionitrile	0.10059	0.06749	0.06554	0.07139	0.06656	0.07431	19.986
25	Ethyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	Methacrylonitrile	3.14873	2.04196	2.03963	2.43036	2.33978	2.40009	18.901
26	Tetrahydrofuran	+++++	8.60666	+++++	+++++	+++++	8.60666	0.000

Gulf Coast

INITIAL CALIBRATION DATA

tart Cal Date : 27-JUL-93 14:25
nd Cal Date : 17-APR-1995 20:50
uant Method : ISTD
arget Version : 3.12 .
ntegrator : HP RTE
ethod file : /chem/gcl2.i/950417.b/8240s2.m
al Date : 20-Apr-1995 11:10 ogormanj
urve Type : Average

	Compound	20 Level 1	50 Level 2	100 Level 3	150 Level 4	200 Level 5	RRF	% RSD
29	Chloroform	4.89252	3.00739	3.02209	3.58584	2.98606	3.49878	23.402
30	1,1,1-Trichloroethane	0.67849	0.43624	0.43113	0.54315	0.46486	0.51077	20.342
31	Carbon Tetrachloride	0.66606	0.39356	0.39293	0.47746	0.40926	0.46785	24.821
32	Isobutanol	0.05805	0.03384	0.02780	0.02380	0.02442	0.03358	42.427
34	Benzene	1.62681	1.21964	0.85796	0.88859	0.92036	1.10267	29.643
35	1,2-Dichloroethane	3.63060	2.10178	1.83676	2.15762	2.46308	2.43797	28.830
	Crotononitrile	0.06712	0.05432	0.05203	0.05212	0.04722	0.05456	13.719
	Trichloroethene	0.58125	0.47186	0.46391	0.41041	0.35532	0.45655	18.396
39	1,2-Dichloropropane	0.58558	0.48030	0.47440	0.48400	0.42848	0.49055	11.751
40	Methylmethacrylate	1.07897	0.65307	0.61193	0.71214	0.63697	0.73862	26.239
41	Dibromomethane	0.40666	0.33462	0.30467	0.27532	0.23830	0.31191	20.467
42	Bromodichloromethane	0.94510	0.58927	0.56209	0.64779	0.54678	0.65821	25.059
43	2-Chloroethylvinylether	0.51040	0.33750	0.34064	0.35416	0.33469	0.37548	20.185
44	2-Nitropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45	cis-1,3-Dichloropropene	1.57318	0.68678	0.67117	0.69970	0.58390	0.84295	48.724
46	4-Methyl-2-pentanone	1.40648	0.93859	0.87996	1.14390	1.20900	1.11559	19.068
48	Toluene	1.99615	1.42013	1.27065	1.30733	1.24875	1.44860	21.615
49	trans-1,3-Dichloropropene	1.06157	0.65414	0.60838	0.73432	0.67062	0.74581	24.429
50	Ethylmethacrylate	1.20123	0.74601	0.64265	0.67691	0.61929	0.77722	31.111
51	1,1,2-Trichloroethane	0.54746	0.36922	0.35020	0.34317	0.29511	0.38103	25.446
52	Tetrachloroethene	0.79649	0.48913	0.68846	0.40278	0.33692	0.54276	35.732
53	2-Hexanone	1.05265	0.71222	0.68279	0.80656	0.87008	0.82486	17.893
54	Dibromochloromethane	0.58116	0.48737	0.48097	0.48859	0.45376	0.49837	9.708
55	1,2-Dibromoethane	1.10224	0.47433	0.44243	0.39469	0.35285	0.55331	56.085
57	Chlorobenzene	1.45638	1.01188	0.94794	0.87512	0.82159	1.02258	24.740
58	1,1,1,2-Tetrachloroethane	0.58640	0.42384	0.35337	0.32801	0.28559	0.39544	29.829
59	Ethylbenzene	0.50950	0.43141	0.37046	0.30147	0.38984	0.40054	19.201
60	m,p-xylene	1.52104	1.17505	0.99839	0.97436	0.86954	1.10768	23.098
61	Xylene (total)	1.57007	1.23166	1.03874	1.08042	0.96999	1.17818	20.299
62	Styrene	1.17483	1.04167	0.78045	0.80633	0.71879	0.90441	21.512
63	Bromoform	0.52504	0.42247	0.40977	0.41438	0.33876	0.42208	15.784
65	1,1,2,2-Tetrachloroethane	0.96879	0.82026	0.64409	0.71986	0.66384	0.76337	17.510
	trans-1,4-Dichloro-2-butene	0.21189	0.12457	0.09096	0.09253	0.08333	0.12066	44.256
	1,2,3-Trichloropropane	1.63200	0.83379	0.60794	0.62234	0.55589	0.85039	52.874

Gulf Coast

INITIAL CALIBRATION DATA

Start Cal Date : 27-JUL-93 14:25
End Cal Date : 17-APR-1995 20:50
Quant Method : ISTD
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/gcl2.i/950417.b/8240s2.m
Cal Date : 20-Apr-1995 11:10 ogormanj
Curve Type : Average

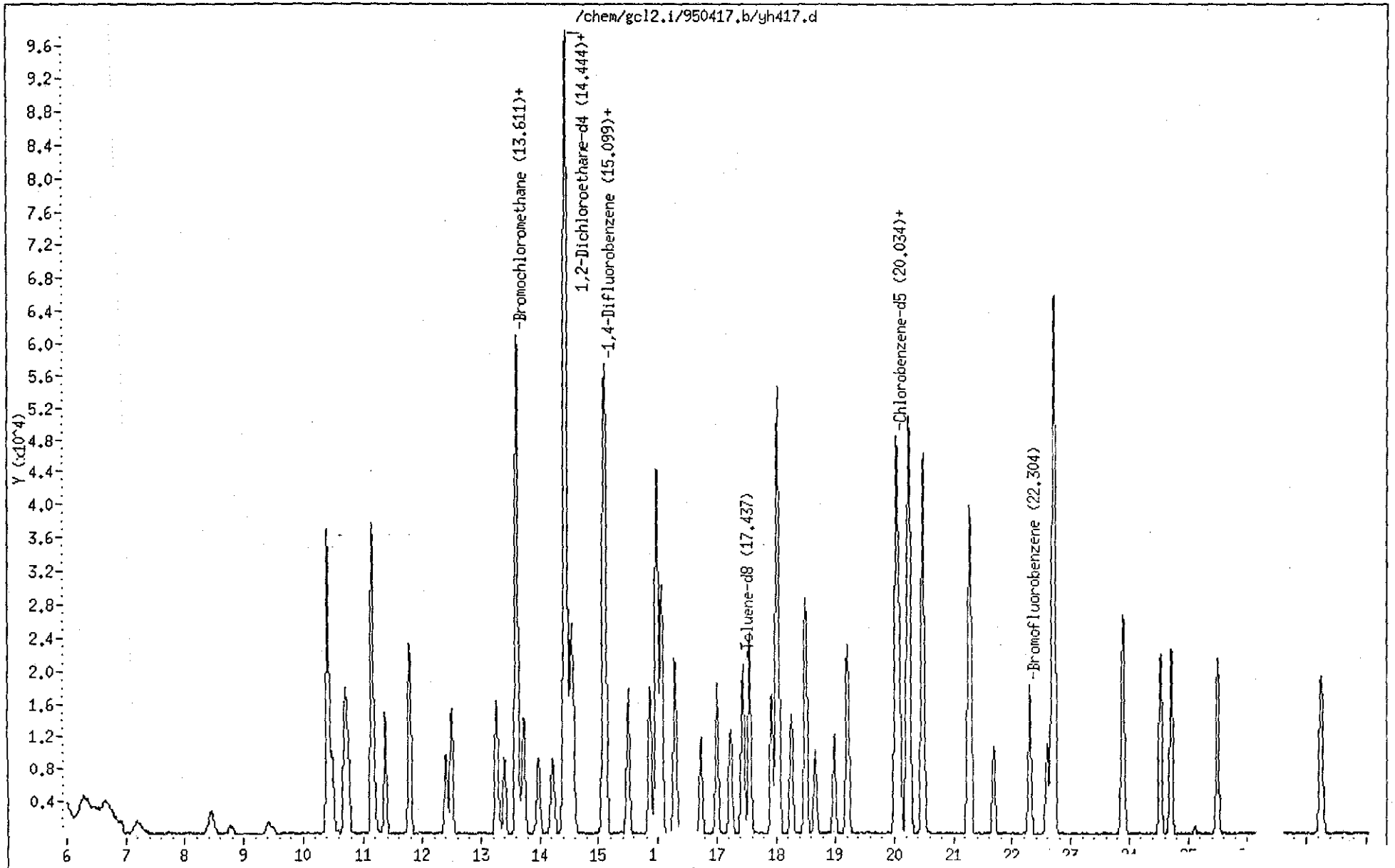
	Compound	20 Level 1	50 Level 2	100 Level 3	150 Level 4	200 Level 5	RRF	% RSD
68	Pentachloroethane	0.31942	0.26084	0.09005	0.22520	0.15113	0.20933	43.153
69	1,3-Dichlorobenzene	0.99361	0.86493	0.68172	0.75192	0.68070	0.79458	16.895
70	1,4-Dichlorobenzene	1.01162	0.85762	0.69350	0.74397	0.67479	0.79630	17.558
71	1,2-Dichlorobenzene	0.99160	0.90647	0.68496	0.73471	0.66656	0.79686	18.110
72	1,2-dibromo-3-chloropropane	0.30668	0.18872	0.16009	0.17315	0.17053	0.19984	30.326
73	Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++
	1,2-Dichloroethane-d4	2.20096	1.34233	1.49541	2.27734	1.90517	1.84424	22.555
$ 47	Toluene-d8	1.39186	1.14295	0.99705	1.05677	0.99962	1.11765	14.703
$ 64	Bromofluorobenzene	0.81730	0.66908	0.56732	0.63493	0.57937	0.65360	15.365

Data File: /chem/gcl2.i/950417.b/yh417.d
Date : 17-APR-1995 18:46
Client ID:
Sample Info: STD20++ BXB417

Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950417.b/yh417.d
Lab Smp Id:
Inj Date : 17-APR-1995 18:46
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : STD20++ BXB417
Misc Info : GCL#2,DIL=1,5MLOFW+5ULIS+2ULSS+1UL295,291,269,288+1UL2
Comment :
Method : /chem/gcl2.i/950417.b/8240s2.m
Meth Date : 17-Apr-1995 20:30 martchd Quant Type: ISTD
Cal Date : 17-APR-1995 13:57 Cal File: ya417.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	1 Dichlorodifluoromethane	85.00	5.240	5.240	(0.385)	5206	20.00	14.56 (M)
	2 Chloromethane	50.00	6.498	6.498	(0.477)	12692	20.00	19.80 (M)
	3 Vinyl Chloride	62.00	7.212	7.212	(0.529)	11644	20.00	21.33 (M)
	4 Bromomethane	94.00	8.461	8.461	(0.621)	9616	20.00	23.41 (M)
	5 Chloroethane	64.00	8.777	8.777	(0.644)	4663	20.00	22.73 (M)
	6 Trichlorofluoromethane	101.00	9.411	9.411	(0.691)	7322	20.00	31.36 (M)
	8 Acrolein	56.00	10.411	10.411	(0.764)	74713	800.0	1240 (M)
	9 1,1-Dichloroethene	96.00	10.481	10.481	(0.769)	8107	20.00	34.03 (M)
	11 Acetone	43.00	10.728	10.728	(0.788)	5966	20.00	27.57 (M)
	12 Iodomethane	142.00	10.699	10.699	(0.785)	46406	50.00	70.76 (M)
	13 Carbon Disulfide	76.00	10.748	10.748	(0.789)	24538	20.00	25.23 (M)
	14 3-Chloropropene	76.00	11.154	11.154	(0.819)	12179	50.00	69.67 (M)
	15 Acetonitrile	41.00	11.154	11.154	(0.819)	62605	160.0	242.9
	16 Methylene Chloride	84.00	11.372	11.372	(0.835)	9528	20.00	23.36 (M)
	17 Acrylonitrile	53.00	11.799	11.799	(0.866)	27765	160.0	224.0 (M)
	18 1,2-Dichloroethene (total)	96.00	13.264	13.264	(0.974)	28609	40.00	71.58 (M)
	19 1,1-Dichloroethane	63.00	12.413	12.413	(0.911)	22430	20.00	24.99 (M)
	20 Vinyl acetate	43.00	12.502	12.502	(0.829)	44869	20.00	25.23 (M)
	22 cis-1,2-Dichloroethene	96.00	13.264	13.264	(0.974)	10676	20.00	22.86 (M)
	23 2-Butanone	43.00	13.304	13.304	(0.977)	20362	20.00	33.97 (M)
	24 Propionitrile	54.00	13.403	13.403	(0.888)	17478	160.0	216.6 (M)
	26 Methacrylonitrile	41.00	13.611	13.611	(0.999)	36985	50.00	65.60
*	27 Bromochloromethane	127.80	13.621	13.621	(1.000)	11746	50.00	
	29 Chloroform	83.00	13.731	13.731	(1.008)	22987	20.00	27.37 (M)
	1,1,1-Trichloroethane	97.00	13.978	13.978	(0.926)	14737	20.00	26.09 (M)
	Carbon Tetrachloride	116.80	14.216	14.216	(0.942)	14467	20.00	27.91 (M)
	32 Isobutanol	43.00	14.434	14.434	(0.957)	126089	2000	3457
$	33 1,2-Dichloroethane-d4	65.00	14.464	14.464	(1.062)	10341	20.00	23.14 (M)
	34 Benzene	78.00	14.534	14.534	(0.963)	35335	20.00	29.30 (M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
35	1,2-Dichloroethane	62.00	14.583	14.583	(1.071)	17058	20.00	29.68 (M)
36	Crotononitrile	67.00	15.118	15.118	(1.002)	11663	160.0	196.8
* 37	1,4-Difluorobenzene	114.00	15.089	15.089	(1.000)	54301	50.00	
38	Trichloroethene	130.00	15.495	15.495	(1.027)	12625	20.00	25.19 (M)
39	1,2-Dichloropropane	63.00	15.862	15.862	(1.051)	12719	20.00	23.76
40	Methylmethacrylate	41.00	15.991	15.991	(1.060)	58589	50.00	73.04
41	Dibromomethane	174.00	16.060	16.060	(1.064)	22082	50.00	65.19
42	Bromodichloromethane	83.00	16.298	16.298	(1.080)	20528	20.00	28.38 (M)
43	2-Chloroethylvinylether	63.00	16.734	16.734	(1.109)	11086	20.00	27.19 (M)
45	cis-1,3-Dichloropropene	75.00	17.001	17.001	(1.127)	34170	20.00	36.95 (M)
46	4-Methyl-2-pentanone	43.00	17.229	17.229	(0.860)	26636	20.00	25.68 (M)
$ 47	Toluene-d8	98.00	17.437	17.437	(0.870)	26359	20.00	25.00 (M)
48	Toluene	91.00	17.557	17.557	(0.876)	37803	20.00	27.74 (M)
49	trans-1,3-Dichloropropene	75.00	17.923	17.923	(0.895)	20104	20.00	28.41 (M)
50	Ethylmethacrylate	69.00	18.032	18.032	(0.900)	56872	50.00	77.28 (M)
51	1,1,2-Trichloroethane	97.00	18.270	18.270	(1.211)	11891	20.00	28.48 (M)
52	Tetrachloroethene	164.00	18.508	18.508	(0.924)	15084	20.00	28.00
53	2-Hexanone	43.00	18.667	18.667	(0.932)	19935	20.00	25.50 (M)
54	Dibromochloromethane	129.00	18.984	18.984	(1.258)	12623	20.00	23.32 (M)
55	1,2-Dibromoethane	107.00	19.202	19.202	(1.273)	59853	50.00	99.60 (M)
*	Chlorobenzene-d5	117.00	20.034	20.034	(1.000)	47345	50.00	
	Chlorobenzene	112.00	20.084	20.084	(1.002)	27581	20.00	28.59 (M)
58	1,1,1,2-Tetrachloroethane	131.00	20.222	20.222	(1.009)	27763	50.00	74.14
59	Ethylbenzene	106.00	20.262	20.262	(1.011)	9649	20.00	27.26 (M)
60	m,p-xylene	91.00	20.480	20.480	(1.022)	57611	40.00	55.12
61	Xylene (total)	91.00	21.253	21.253	(1.061)	29734	20.00	26.73
62	Styrene	104.00	21.283	21.283	(1.062)	22249	20.00	26.07
63	Bromoform	173.00	21.689	21.689	(1.437)	11404	20.00	24.33 (M)
64	Bromofluorobenzene	95.00	22.304	22.304	(1.113)	15478	20.00	24.97 (M)
65	1,1,2,2-Tetrachloroethane	83.00	22.601	22.601	(1.128)	18347	20.00	25.43 (M)
66	trans-1,4-Dichloro-2-butene	89.00	22.711	22.711	(1.134)	10032	50.00	87.81 (M)
67	1,2,3-Trichloropropane	75.00	22.701	22.701	(1.133)	77267	50.00	95.96 (M)
68	Pentachloroethane	167.00	23.891	23.891	(1.193)	15123	50.00	76.30 (M)
69	1,3-Dichlorobenzene	146.00	24.535	24.535	(1.225)	18817	20.00	25.01 (M)
70	1,4-Dichlorobenzene	146.00	24.713	24.713	(1.234)	19158	20.00	25.41 (M)
71	1,2-Dichlorobenzene	146.00	25.496	25.496	(1.273)	18779	20.00	25.20 (M)

C Flag Legend

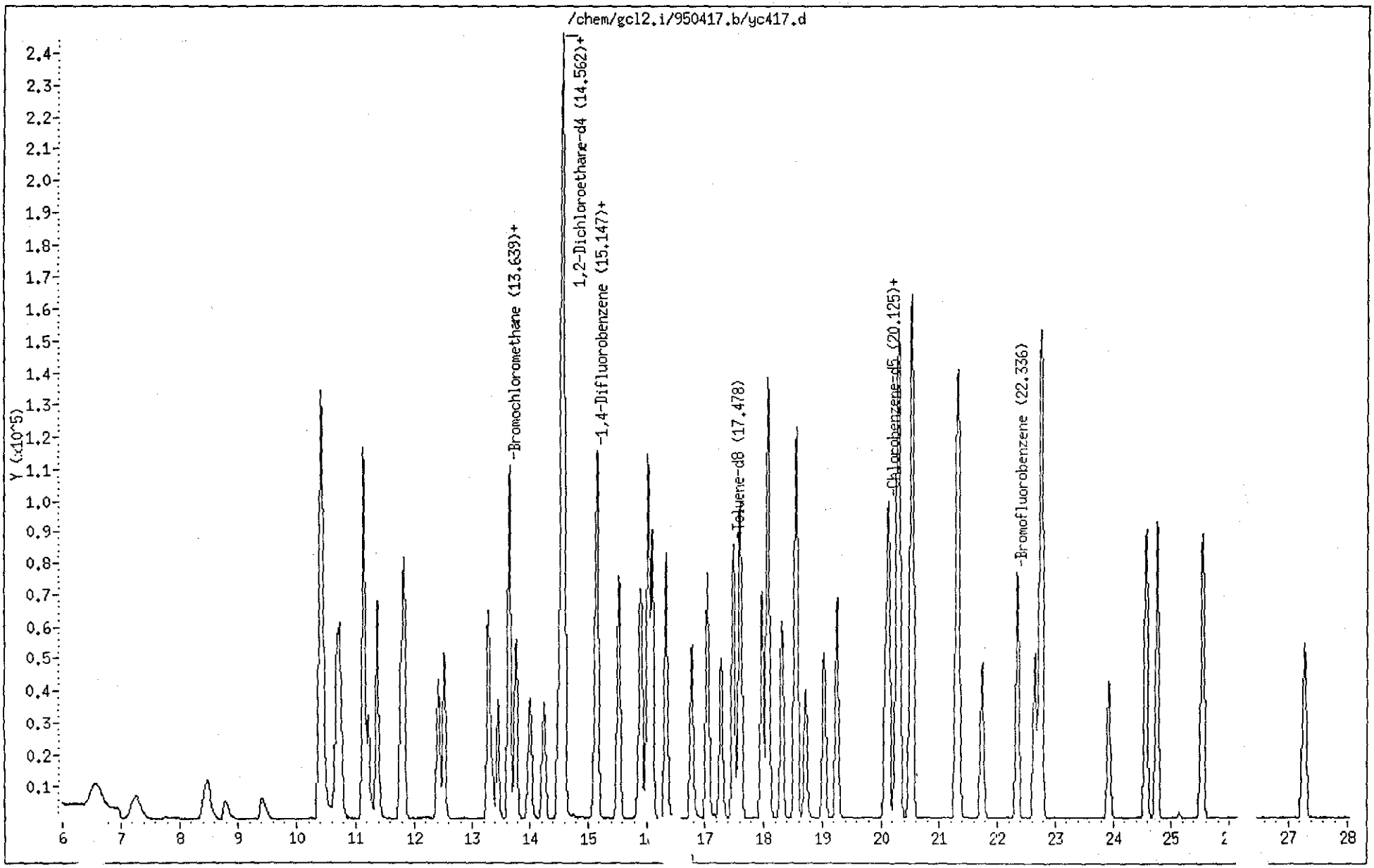
- Compound response manually integrated.

Data File: /chem/gc12.i/950417.b/yc417.d
Date : 17-APR-1995 16:39
Client ID:
Sample Info: STD100++ BXB417

Column phase:

Instrument: gc12.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950417.b/yc417.d
Lab Smp Id:
Inj Date : 17-APR-1995 16:39
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : STD100++ BXB417
Misc Info : GCL#2,DIL=1,5MLOFW+5ULIS+5ULSS+2.5UL295,291
Comment :
Method : /chem/gcl2.i/950417.b/8240s2.m
Meth Date : 17-Apr-1995 17:34 kruedinm Quant Type: ISTD
Cal Date : 17-APR-1995 13:57 Cal File: ya417.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1	Dichlorodifluoromethane	85.00	5.364	5.364	(0.394)	41710	100.0	106.7 (M)
2	Chloromethane	50.00	6.554	6.554	(0.481)	65857	100.0	114.3 (M)
3	Vinyl Chloride	62.00	7.258	7.258	(0.533)	56627	100.0	111.4 (M)
4	Bromomethane	94.00	8.468	8.468	(0.621)	40655	100.0	105.6 (M)
5	Chloroethane	64.00	8.784	8.784	(0.644)	21612	100.0	100.0 (M)
6	Trichlorofluoromethane	101.00	9.418	9.418	(0.691)	19473	100.0	87.75 (M)
8	Acrolein	56.00	10.398	10.398	(0.763)	273914	4000	4856 (M)
9	1,1-Dichloroethene	96.00	10.448	10.448	(0.767)	27138	100.0	124.5
11	Acetone	43.00	10.746	10.746	(0.788)	18166	100.0	85.55 (M)
12	Iodomethane	142.00	10.676	10.676	(0.783)	128707	200.0	202.7
13	Carbon Disulfide	76.00	10.726	10.726	(0.787)	103715	100.0	105.8 (M)
14	3-Chloropropene	76.00	11.132	11.132	(0.817)	36429	200.0	206.8
15	Acetonitrile	41.00	11.132	11.132	(0.817)	175874	800.0	805.9
16	Methylene Chloride	84.00	11.370	11.370	(0.834)	45784	100.0	116.2
17	Acrylonitrile	53.00	11.816	11.816	(0.867)	101139	800.0	943.1
18	1,2-Dichloroethene (total)	96.00	13.273	13.273	(0.974)	79574	200.0	228.8 (M)
19	1,1-Dichloroethane	63.00	12.411	12.411	(0.911)	86688	100.0	98.77 (M)
20	Vinyl acetate	43.00	12.510	12.510	(0.828)	143561	100.0	87.46 (M)
22	cis-1,2-Dichloroethene	96.00	13.273	13.273	(0.974)	49782	100.0	107.0
23	2-Butanone	43.00	13.342	13.342	(0.979)	46716	100.0	96.76 (M)
24	Propionitrile	54.00	13.441	13.441	(0.890)	63407	800.0	893.6 (M)
26	Methacrylonitrile	41.00	13.639	13.639	(1.001)	102308	200.0	201.7
27	Bromochloromethane	127.80	13.630	13.630	(1.000)	12540	50.00	
29	Chloroform	83.00	13.759	13.759	(1.009)	75794	100.0	101.8
	1,1,1-Trichloroethane	97.00	13.997	13.997	(0.926)	52137	100.0	96.29 (M)
	Carbon Tetrachloride	116.80	14.235	14.235	(0.942)	47517	100.0	99.28
32	Isobutanol	43.00	14.562	14.562	(0.964)	268904	8000	7940
33	1,2-Dichloroethane-d4	65.00	14.482	14.482	(1.063)	37505	100.0	83.75
34	Benzene	78.00	14.552	14.552	(0.963)	103753	100.0	85.48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
35	1,2-Dichloroethane	62.00	14.602	14.602	(1.071)	46066	100.0	92.04 (M)
36	Crotononitrile	67.00	15.157	15.157	(1.003)	50336	800.0	877.5
* 37	1,4-Difluorobenzene	114.00	15.108	15.108	(1.000)	60465	50.00	
38	Trichloroethene	130.00	15.524	15.524	(1.028)	56101	100.0	113.6
39	1,2-Dichloropropane	63.00	15.901	15.901	(1.052)	57369	100.0	104.5
40	Methylmethacrylate	41.00	16.020	16.020	(1.060)	148001	200.0	192.9
41	Dibromomethane	174.00	16.090	16.090	(1.065)	73687	200.0	203.7
42	Bromodichloromethane	83.00	16.328	16.328	(1.081)	67973	100.0	103.1 (M)
43	2-Chloroethylvinylether	63.00	16.774	16.774	(1.110)	41193	100.0	130.8
44	2-Nitropropane	43.00	17.269	17.269	(1.267)	100399	400.0	414.5
45	cis-1,3-Dichloropropene	75.00	17.041	17.041	(1.128)	81164	100.0	103.6
46	4-Methyl-2-pentanone	43.00	17.269	17.269	(0.860)	97623	100.0	92.32 (M)
$ 47	Toluene-d8	98.00	17.478	17.478	(0.871)	110613	100.0	88.91
48	Toluene	91.00	17.597	17.597	(0.877)	140966	100.0	96.61
49	trans-1,3-Dichloropropene	75.00	17.974	17.974	(0.895)	67494	100.0	92.28
50	Ethylmethacrylate	69.00	18.073	18.073	(0.900)	142591	200.0	177.1
51	1,1,2-Trichloroethane	97.00	18.311	18.311	(1.212)	42350	100.0	104.4
52	Tetrachloroethene	164.00	18.549	18.549	(0.924)	76378	100.0	135.4
53	2-Hexanone	43.00	18.718	18.718	(0.932)	75749	100.0	94.94 (M)
54	Dibromochloromethane	129.00	19.025	19.025	(1.259)	58164	100.0	112.0 (M)
	1,2-Dibromoethane	107.00	19.253	19.253	(1.274)	107006	200.0	210.2 (M)
	Chlorobenzene-d5	117.00	20.075	20.075	(1.000)	55470	50.00	
57	Chlorobenzene	112.00	20.125	20.125	(1.002)	105164	100.0	103.8
58	1,1,1,2-Tetrachloroethane	131.00	20.264	20.264	(1.009)	78406	200.0	193.6
59	Ethylbenzene	106.00	20.304	20.304	(1.011)	41099	100.0	101.4
60	m,p-xylene	91.00	20.523	20.523	(1.022)	221523	200.0	188.2
61	Xylene (total)	91.00	21.285	21.285	(1.060)	115238	100.0	92.90
62	Styrene	104.00	21.325	21.325	(1.062)	86583	100.0	89.65
63	Bromoform	173.00	21.732	21.732	(1.438)	49554	100.0	113.6
$ 64	Bromofluorobenzene	95.00	22.336	22.336	(1.113)	62938	100.0	88.37
65	1,1,2,2-Tetrachloroethane	83.00	22.643	22.643	(1.128)	71455	100.0	91.71 (M)
66	trans-1,4-Dichloro-2-butene	89.00	22.753	22.753	(1.133)	20182	200.0	175.6 (M)
67	1,2,3-Trichloropropane	75.00	22.743	22.743	(1.133)	134890	200.0	175.2
68	Pentachloroethane	167.00	23.922	23.922	(1.192)	19981	200.0	91.00
69	1,3-Dichlorobenzene	146.00	24.566	24.566	(1.224)	75630	100.0	91.29 (M)
70	1,4-Dichlorobenzene	146.00	24.745	24.745	(1.233)	76937	100.0	90.50 (M)
71	1,2-Dichlorobenzene	146.00	25.527	25.527	(1.272)	75990	100.0	90.93 (M)
72	1,2-dibromo-3-chloropropane	157.00	27.261	27.261	(1.358)	35521	200.0	182.4

QC Flag Legend

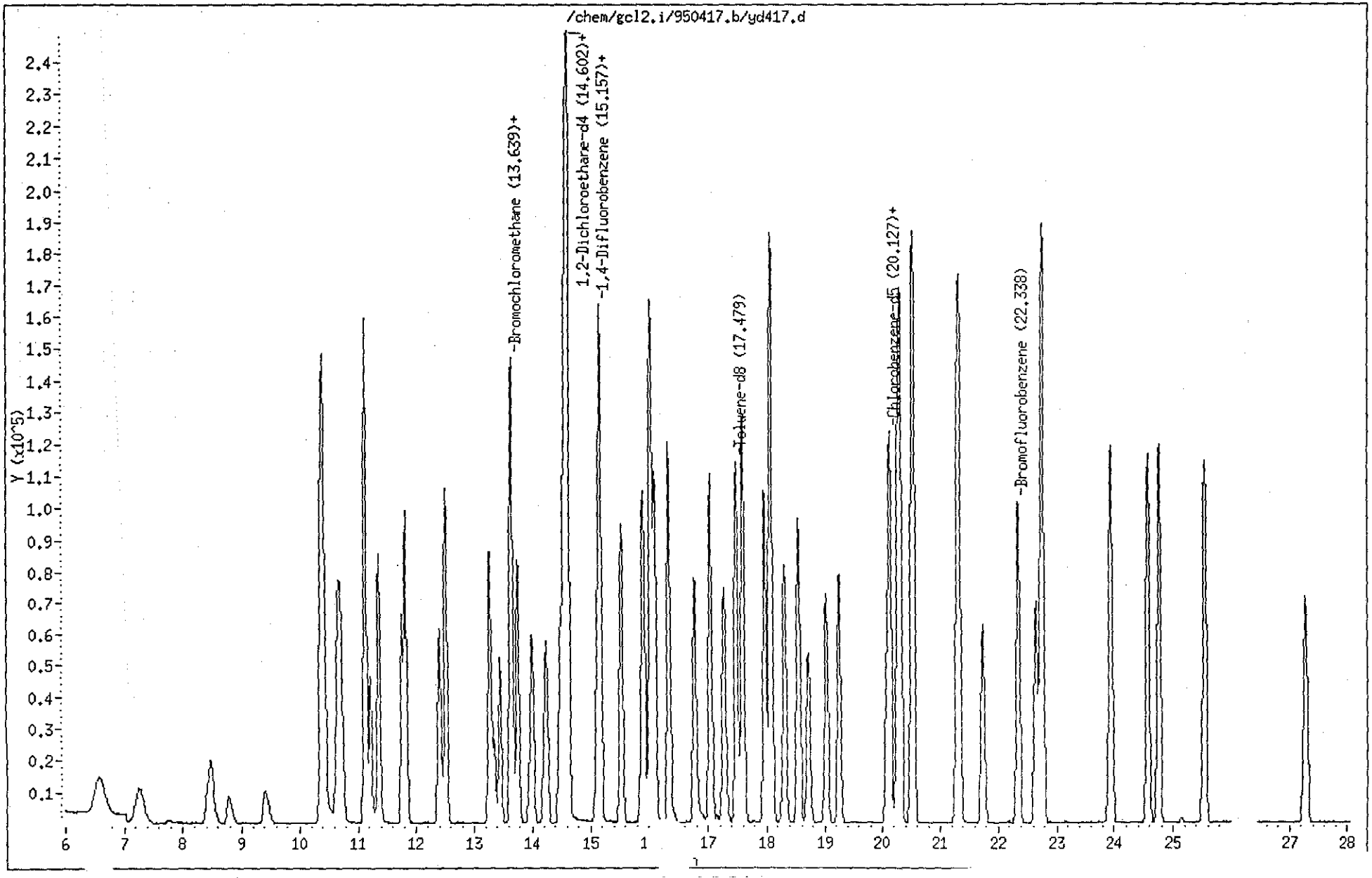
M - Compound response manually integrated.

Data File: /chem/gcl2.i/950417.b/yd417.d
Date : 17-APR-1995 17:16
Client ID:
Sample Info: STD150++ BXB417

Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950417.b/yd417.d
Lab Smp Id:
Inj Date : 17-APR-1995 17:16
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : STD150++ BXB417
Misc Info : GCL#2,DIL=1,5MLOFW+5ULIS+10ULSS+5UL295,291
Comment :
Method : /chem/gcl2.i/950417.b/8240s2.m
Meth Date : 17-Apr-1995 17:55 kruedinm Quant Type: ISTD
Cal Date : 17-APR-1995 13:57 Cal File: ya417.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	Dichlorodifluoromethane	85.00	5.375	5.375	(0.395)	57355	150.0	169.2(M)
2	Chloromethane	50.00	6.584	6.584	(0.483)	93988	150.0	177.6(M)
3	Vinyl Chloride	62.00	7.249	7.249	(0.532)	76976	150.0	168.7(M)
4	Bromomethane	94.00	8.467	8.467	(0.622)	57070	150.0	166.3(M)
5	Chloroethane	64.00	8.784	8.784	(0.645)	26673	150.0	144.4(M)
6	Trichlorofluoromethane	101.00	9.418	9.418	(0.691)	30543	150.0	152.2(M)
8	Acrolein	56.00	10.388	10.388	(0.763)	292382	6000	5890(M)
9	1,1-Dichloroethene	96.00	10.428	10.428	(0.766)	27889	150.0	144.2
11	Acetone	43.00	10.735	10.735	(0.788)	26908	150.0	147.1(M)
12	Iodomethane	142.00	10.656	10.656	(0.782)	160436	300.0	289.4
13	Carbon Disulfide	76.00	10.706	10.706	(0.786)	120341	150.0	140.8
14	3-Chloropropene	76.00	11.122	11.122	(0.817)	40592	300.0	267.8
15	Acetonitrile	41.00	11.122	11.122	(0.817)	235687	1200	1209
16	Methylene Chloride	84.00	11.350	11.350	(0.833)	51531	150.0	148.0
17	Acrylonitrile	53.00	11.816	11.816	(0.868)	119280	1200	1277
18	1,2-Dichloroethene (total)	96.00	13.262	13.262	(0.974)	96677	300.0	315.7(M)
19	1,1-Dichloroethane	63.00	12.401	12.401	(0.910)	125918	150.0	161.7
20	Vinyl acetate	43.00	12.510	12.510	(0.828)	305574	150.0	194.9
22	cis-1,2-Dichloroethene	96.00	13.262	13.262	(0.974)	62141	150.0	150.8
23	2-Butanone	43.00	13.342	13.342	(0.980)	71268	150.0	167.3(M)
24	Propionitrile	54.00	13.451	13.451	(0.890)	91414	1200	1425(M)
26	Methacrylonitrile	41.00	13.639	13.639	(1.001)	157983	300.0	347.5
* 27	Bromochloromethane	127.80	13.620	13.620	(1.000)	10834	50.00	
29	Chloroform	83.00	13.749	13.749	(1.009)	116547	150.0	171.4
[illegible]	1,1,1-Trichloroethane	97.00	13.987	13.987	(0.926)	86938	150.0	173.2
	Carbon Tetrachloride	116.80	14.225	14.225	(0.942)	76424	150.0	172.0
32	Isobutanol	43.00	14.602	14.602	(0.967)	304726	12000	10240
$ 33	1,2-Dichloroethane-d4	65.00	14.482	14.482	(1.063)	74018	150.0	184.2
34	Benzene	78.00	14.542	14.542	(0.963)	142230	150.0	130.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
35	1,2-Dichloroethane	62.00	14.602	14.602	(1.072)	70127	150.0	151.7 (M)
36	Crotononitrile	67.00	15.157	15.157	(1.003)	66739	1200	1316
* 37	1,4-Difluorobenzene	114.00	15.108	15.108	(1.000)	53354	50.00	
38	Trichloroethene	130.00	15.524	15.524	(1.028)	65691	150.0	145.8
39	1,2-Dichloropropane	63.00	15.891	15.891	(1.052)	77470	150.0	154.9
40	Methylmethacrylate	41.00	16.021	16.021	(1.060)	227973	300.0	329.1
41	Dibromomethane	174.00	16.090	16.090	(1.065)	88138	300.0	274.2
42	Bromodichloromethane	83.00	16.328	16.328	(1.081)	103686	150.0	167.9 (M)
43	2-Chloroethylvinylether	63.00	16.765	16.765	(1.110)	56688	150.0	183.6
44	2-Nitropropane	43.00	17.271	17.271	(1.268)	154965	600.0	702.0
45	cis-1,3-Dichloropropene	75.00	17.032	17.032	(1.127)	111996	150.0	156.6
46	4-Methyl-2-pentanone	43.00	17.271	17.271	(0.861)	154965	150.0	174.6
$ 47	Toluene-d8	98.00	17.479	17.479	(0.871)	143162	150.0	142.4
48	Toluene	91.00	17.598	17.598	(0.877)	177105	150.0	146.4
49	trans-1,3-Dichloropropene	75.00	17.965	17.965	(0.895)	99479	150.0	161.8
50	Ethylmethacrylate	69.00	18.074	18.074	(0.901)	183402	300.0	283.6
51	1,1,2-Trichloroethane	97.00	18.313	18.313	(1.212)	54928	150.0	149.4
52	Tetrachloroethene	164.00	18.541	18.541	(0.924)	54565	150.0	118.8
53	2-Hexanone	43.00	18.719	18.719	(0.933)	109265	150.0	165.4
54	Dibromochloromethane	129.00	19.027	19.027	(1.259)	78204	150.0	161.5 (M)
	1,2-Dibromoethane	107.00	19.255	19.255	(1.274)	126351	300.0	278.2 (M)
	Chlorobenzene-d5	117.00	20.067	20.067	(1.000)	45157	50.00	
57	Chlorobenzene	112.00	20.127	20.127	(1.003)	118554	150.0	140.8
58	1,1,1,2-Tetrachloroethane	131.00	20.266	20.266	(1.010)	88871	300.0	267.4
59	Ethylbenzene	106.00	20.316	20.316	(1.012)	40841	150.0	122.7
60	m,p-xylene	91.00	20.524	20.524	(1.023)	263994	300.0	271.2
61	Xylene (total)	91.00	21.287	21.287	(1.061)	146365	150.0	142.0
62	Styrene	104.00	21.337	21.337	(1.063)	109235	150.0	136.6
63	Bromoform	173.00	21.734	21.734	(1.439)	66326	150.0	163.1
$ 64	Bromofluorobenzene	95.00	22.338	22.338	(1.113)	86015	150.0	147.8
65	1,1,2,2-Tetrachloroethane	83.00	22.646	22.646	(1.128)	97520	150.0	150.6 (M)
66	trans-1,4-Dichloro-2-butene	89.00	22.765	22.765	(1.134)	25071	300.0	269.5 (M)
67	1,2,3-Trichloropropane	75.00	22.745	22.745	(1.133)	168618	300.0	269.8
68	Pentachloroethane	167.00	23.925	23.925	(1.192)	61017	300.0	333.5
69	1,3-Dichlorobenzene	146.00	24.569	24.569	(1.224)	101864	150.0	148.0
70	1,4-Dichlorobenzene	146.00	24.758	24.758	(1.234)	100786	150.0	143.0
71	1,2-Dichlorobenzene	146.00	25.531	25.531	(1.272)	99532	150.0	143.6
72	1,2-dibromo-3-chloropropane	157.00	27.265	27.265	(1.359)	46913	300.0	300.2

QC Flag Legend

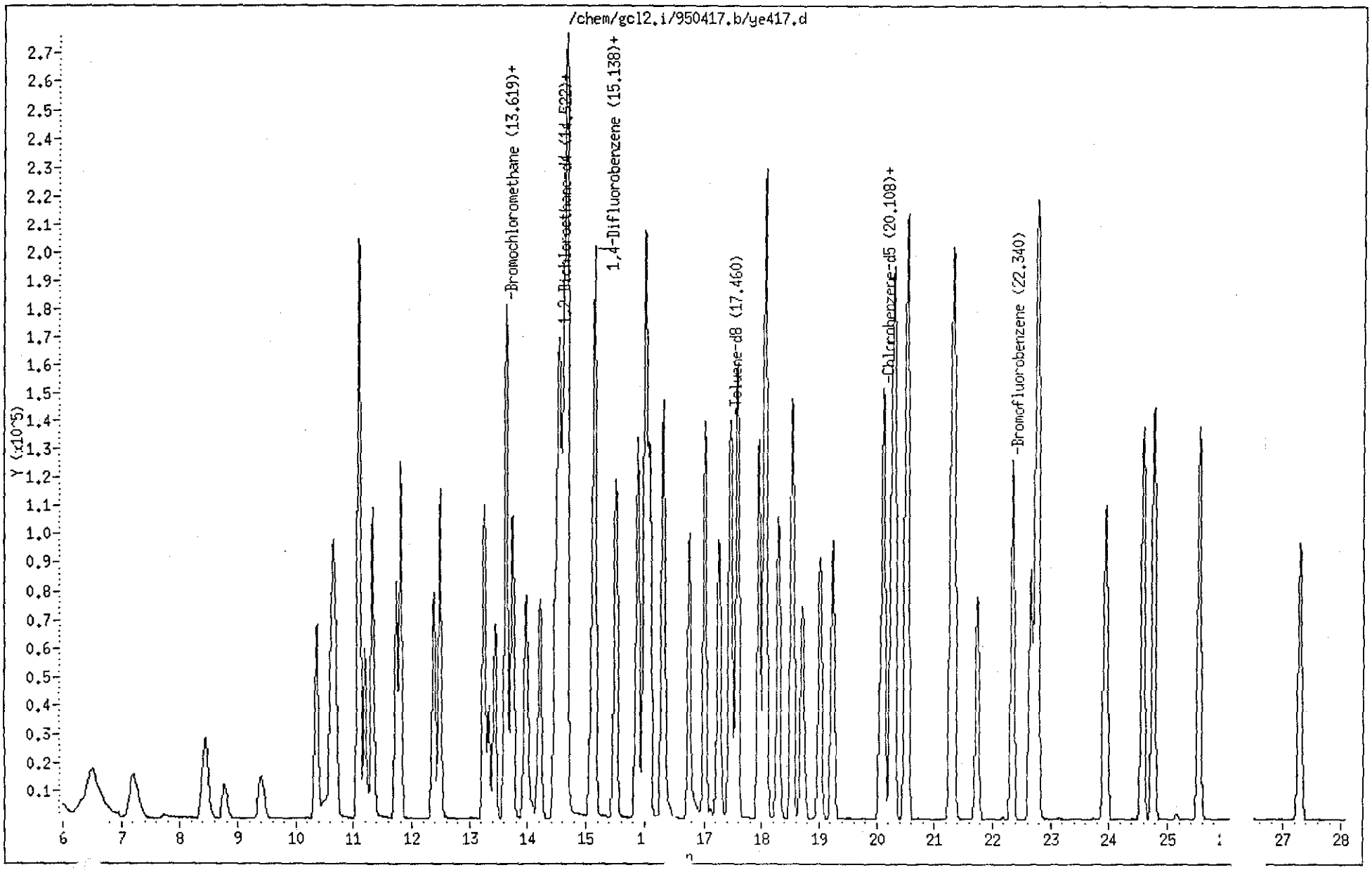
M - Compound response manually integrated.

Data File: /chem/gcl2.i/950417.b/ye417.d
Date : 17-APR-1995 17:52
Client ID:
Sample Info: STD200++ BXB417

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00

Column phase:



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950417.b/ye417.d
Lab Smp Id:
Inj Date : 17-APR-1995 17:52
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : STD200++ BXB417
Misc Info : GCL#2,DIL=1,5MLOFW+5ULIS+20ULSS+10UL295,291
Comment :
Method : /chem/gcl2.i/950417.b/8240s2.m
Meth Date : 17-Apr-1995 18:37 kruedinm Quant Type: ISTD
Cal Date : 17-APR-1995 13:57 Cal File: ya417.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	Dichlorodifluoromethane	85.00	5.275	5.275	(0.388)	84541	200.0	238.3 (M)
2	Chloromethane	50.00	6.504	6.504	(0.479)	131194	200.0	229.2
3	Vinyl Chloride	62.00	7.208	7.208	(0.530)	108335	200.0	223.6 (M)
4	Bromomethane	94.00	8.427	8.427	(0.620)	77307	200.0	216.0 (M)
5	Chloroethane	64.00	8.743	8.743	(0.643)	36951	200.0	198.6
6	Trichlorofluoromethane	101.00	9.397	9.397	(0.691)	44035	200.0	203.3 (M)
8	Acrolein	56.00	10.338	10.338	(0.761)	133268	8000	2506 (M)
9	1,1-Dichloroethene	96.00	10.358	10.358	(0.762)	8679	200.0	43.20 (M)
10	Trichlorotrifluoroethane	101.00	9.397	9.397	(0.691)	44039	200.0	233.2 (M)
11	Acetone	43.00	10.695	10.695	(0.787)	44732	200.0	224.4 (M)
12	Iodomethane	142.00	10.606	10.606	(0.780)	196413	400.0	341.9
13	Carbon Disulfide	76.00	10.645	10.645	(0.783)	156221	200.0	178.3
14	3-Chloropropene	76.00	11.072	11.072	(0.815)	54214	400.0	346.6
15	Acetonitrile	41.00	11.072	11.072	(0.815)	319470	1600	1377
16	Methylene Chloride	84.00	11.310	11.310	(0.832)	68768	200.0	189.0
17	Acrylonitrile	53.00	11.796	11.796	(0.868)	158385	1600	1599
18	1,2-Dichloroethene (total)	96.00	13.232	13.232	(0.974)	124860	400.0	396.3 (M)
19	1,1-Dichloroethane	63.00	12.370	12.370	(0.910)	163465	200.0	202.7
20	Vinyl acetate	43.00	12.479	12.479	(0.828)	334360	200.0	198.3
22	cis-1,2-Dichloroethene	96.00	13.232	13.232	(0.974)	79922	200.0	187.5
23	2-Butanone	43.00	13.322	13.322	(0.980)	110847	200.0	238.3 (M)
24	Propionitrile	54.00	13.431	13.431	(0.891)	120183	1600	1710
26	Methacrylonitrile	41.00	13.619	13.619	(1.002)	208652	400.0	424.2
27	Bromochloromethane	127.80	13.589	13.589	(1.000)	11147	50.00	
	Chloroform	83.00	13.729	13.729	(1.010)	150260	200.0	207.9
	1,1,1-Trichloroethane	97.00	13.957	13.957	(0.926)	115545	200.0	211.8
31	Carbon Tetrachloride	116.80	14.205	14.205	(0.942)	103050	200.0	212.5
32	Isobutanol	43.00	14.642	14.642	(0.971)	440942	16000	13630
33	1,2-Dichloroethane-d4	65.00	14.453	14.453	(1.064)	97874	200.0	226.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
34	Benzene	78.00	14.522	14.522	(0.963)	216299	200.0	186.9
35	1,2-Dichloroethane	62.00	14.572	14.572	(1.072)	111665	200.0	222.1(M)
36	Crotononitrile	67.00	15.138	15.138	(1.004)	85258	1600	1572
* 37	1,4-Difluorobenzene	114.00	15.078	15.078	(1.000)	56429	50.00	
38	Trichloroethene	130.00	15.495	15.495	(1.028)	85756	200.0	176.7
39	1,2-Dichloropropane	63.00	15.862	15.862	(1.052)	99478	200.0	186.6
40	Methylmethacrylate	41.00	15.991	15.991	(1.061)	287549	400.0	381.4
41	Dibromomethane	174.00	16.061	16.061	(1.065)	107577	400.0	314.4
42	Bromodichloromethane	83.00	16.299	16.299	(1.081)	132303	200.0	196.0
43	2-Chloroethylvinylether	63.00	16.745	16.745	(1.111)	75546	200.0	214.0
44	2-Nitropropane	43.00	17.251	17.251	(1.269)	207187	800.0	868.0
45	cis-1,3-Dichloropropene	75.00	17.013	17.013	(1.128)	141429	200.0	184.0
46	4-Methyl-2-pentanone	43.00	17.251	17.251	(0.860)	207187	200.0	220.5
$ 47	Toluene-d8	98.00	17.450	17.450	(0.870)	182998	200.0	177.6
48	Toluene	91.00	17.569	17.569	(0.876)	224451	200.0	179.9
49	trans-1,3-Dichloropropene	75.00	17.946	17.946	(0.895)	126774	200.0	198.0
50	Ethylmethacrylate	69.00	18.055	18.055	(0.901)	231442	400.0	347.6
51	1,1,2-Trichloroethane	97.00	18.284	18.284	(1.213)	70491	200.0	179.7
52	Tetrachloroethene	164.00	18.522	18.522	(0.924)	87407	200.0	179.0
53	2-Hexanone	43.00	18.701	18.701	(0.933)	163306	200.0	229.9
	Dibromochloromethane	129.00	18.998	18.998	(1.260)	102421	200.0	193.3(M)
	1,2-Dibromoethane	107.00	19.226	19.226	(1.275)	159287	400.0	327.4(M)
* 56	Chlorobenzene-d5	117.00	20.049	20.049	(1.000)	46715	50.00	
57	Chlorobenzene	112.00	20.108	20.108	(1.003)	150078	200.0	172.2
58	1,1,1,2-Tetrachloroethane	131.00	20.248	20.248	(1.010)	106730	400.0	307.4
59	Ethylbenzene	106.00	20.298	20.298	(1.012)	47836	200.0	140.2
60	m,p-xylene	91.00	20.516	20.516	(1.023)	317534	400.0	314.8
61	Xylene (total)	91.00	21.279	21.279	(1.061)	177967	200.0	166.5
62	Styrene	104.00	21.329	21.329	(1.064)	131386	200.0	158.9
63	Bromoform	173.00	21.725	21.725	(1.441)	87141	200.0	195.5
$ 64	Bromofluorobenzene	95.00	22.340	22.340	(1.114)	109258	200.0	181.4
65	1,1,2,2-Tetrachloroethane	83.00	22.647	22.647	(1.130)	122699	200.0	183.3(M)
66	trans-1,4-Dichloro-2-butene	89.00	22.767	22.767	(1.136)	31142	400.0	321.9
67	1,2,3-Trichloropropane	75.00	22.747	22.747	(1.135)	207748	400.0	319.5
68	Pentachloroethane	167.00	23.926	23.926	(1.193)	56481	400.0	308.8
69	1,3-Dichlorobenzene	146.00	24.571	24.571	(1.226)	127195	200.0	178.7
70	1,4-Dichlorobenzene	146.00	24.760	24.760	(1.235)	126091	200.0	173.2
71	1,2-Dichlorobenzene	146.00	25.543	25.543	(1.274)	124554	200.0	173.6
72	1,2-dibromo-3-chloropropane	157.00	27.276	27.276	(1.360)	63731	400.0	393.0

QC Flag Legend

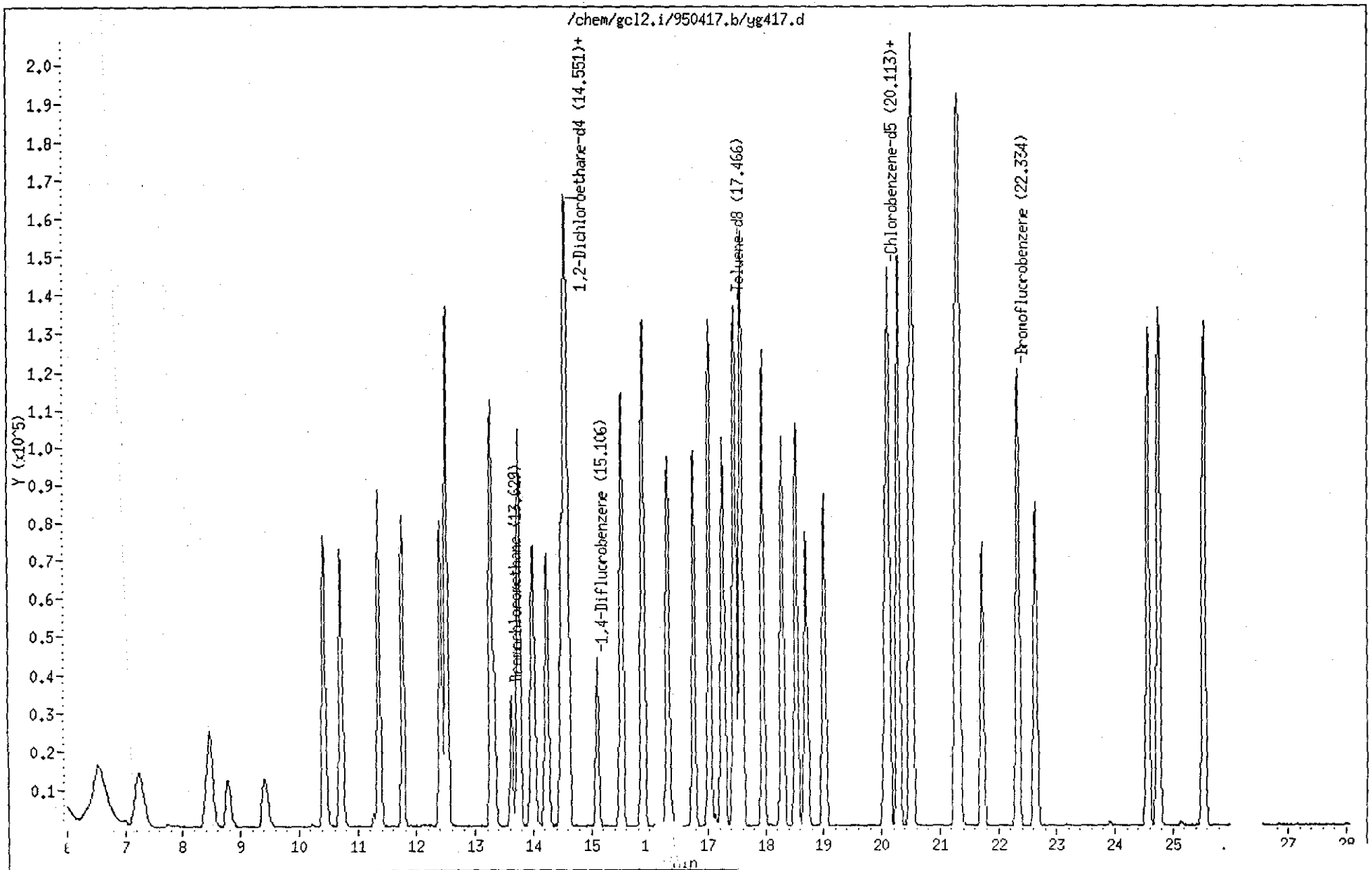
M - Compound response manually integrated.

Data File: /chem/gcl2.i/950417.b/yg417.d
Date : 17-APR-1995 20:50
Client ID:
Sample Info: STD200 BXB417

Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950417.b/yg417.d
Lab Smp Id:
Inj Date : 17-APR-1995 20:50
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : STD200 BXB417
Misc Info : GCL#2,DIL=1,5MLOFW+5ULIS+20ULSS+10UL295,291
Comment :
Method : /chem/gcl2.i/950417.b/8240s2.m
Meth Date : 17-Apr-1995 21:27 martchd Quant Type: ISTD
Cal Date : 17-APR-1995 13:57 Cal File: ya417.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: HSL.sub
Target Version: 3.12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	Chloromethane	50.00	6.515	6.515	(0.478)	124074	200.0	190.5
3	Vinyl Chloride	62.00	7.219	7.219	(0.530)	140012	200.0	236.2(M)
4	Bromomethane	94.00	8.457	8.457	(0.621)	95277	200.0	216.3(M)
5	Chloroethane	64.00	8.773	8.773	(0.644)	42995	200.0	198.0
9	1,1-Dichloroethene	96.00	10.428	10.428	(0.765)	63533	200.0	209.2
11	Acetone	43.00	10.745	10.745	(0.788)	44374	200.0	200.0(M)
13	Carbon Disulfide	76.00	10.705	10.705	(0.785)	169260	200.0	166.5
16	Methylene Chloride	84.00	11.359	11.359	(0.833)	53790	200.0	132.7
19	1,1-Dichloroethane	63.00	12.410	12.410	(0.911)	165098	200.0	178.4
20	Vinyl acetate	43.00	12.519	12.519	(0.829)	397059	200.0	202.6
18	1,2-Dichloroethene (total)	96.00	13.272	13.272	(0.974)	172580	400.0	395.4(M)
22	cis-1,2-Dichloroethene	96.00	13.272	13.272	(0.974)	80250	200.0	166.6
23	2-Butanone	43.00	13.341	13.341	(0.979)	105283	200.0	172.2(M)
* 27	Bromochloromethane	127.80	13.629	13.629	(1.000)	12316	50.00	
29	Chloroform	83.00	13.748	13.748	(1.009)	147117	200.0	170.7
30	1,1,1-Trichloroethane	97.00	13.996	13.996	(0.926)	108306	200.0	182.0
31	Carbon Tetrachloride	116.80	14.234	14.234	(0.942)	95353	200.0	175.0
$ 33	1,2-Dichloroethane-d4	65.00	14.482	14.482	(1.063)	93864	200.0	206.6
35	1,2-Dichloroethane	62.00	14.601	14.601	(1.071)	121351	200.0	202.1
34	Benzene	78.00	14.551	14.551	(0.963)	214432	200.0	166.9
* 37	1,4-Difluorobenzene	114.00	15.106	15.106	(1.000)	58247	50.00	
38	Trichloroethene	130.00	15.513	15.513	(1.027)	82785	200.0	155.6
39	1,2-Dichloropropane	63.00	15.889	15.889	(1.052)	99849	200.0	174.7
42	Bromodichloromethane	83.00	16.316	16.316	(1.080)	127394	200.0	166.1
45	cis-1,3-Dichloropropene	75.00	17.029	17.029	(1.127)	135784	200.0	138.3
	4-Methyl-2-pentanone	43.00	17.258	17.258	(0.861)	213299	200.0	216.8
$ 47	Toluene-d8	98.00	17.466	17.466	(0.871)	176321	200.0	178.9
48	Toluene	91.00	17.585	17.585	(0.877)	220254	200.0	172.4
49	trans-1,3-Dichloropropene	75.00	17.952	17.952	(0.895)	118271	200.0	179.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	51 1,1,2-Trichloroethane	97.00	18.289	18.289	(1.211)	68758	200.0	154.9
	52 Tetrachloroethene	164.00	18.527	18.527	(0.924)	59420	200.0	124.2
	53 2-Hexanone	43.00	18.696	18.696	(0.932)	153462	200.0	211.0
*	56 Chlorobenzene-d5	117.00	20.054	20.054	(1.000)	44090	50.00	
	57 Chlorobenzene	112.00	20.113	20.113	(1.003)	144929	200.0	160.7
	59 Ethylbenzene	106.00	20.282	20.282	(1.011)	68753	200.0	194.7
	60 m,p-xylene	91.00	20.511	20.511	(1.023)	306679	400.0	314.0
	61 Xylene (total)	91.00	21.274	21.274	(1.061)	171053	200.0	164.6
	62 Styrene	104.00	21.323	21.323	(1.063)	126737	200.0	158.9
	63 Bromoform	173.00	21.720	21.720	(1.438)	78927	200.0	160.5
$	64 Bromofluorobenzene	95.00	22.334	22.334	(1.114)	102177	200.0	177.3
	65 1,1,2,2-Tetrachloroethane	83.00	22.632	22.632	(1.129)	117179	200.0	174.0(M)

QC Flag Legend

M - Compound response manually integrated.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Roy F. Weston, Inc. Contract: 1989-09-02

Case No.: Techalloy RFW Lot: 9504G211

Instrument ID: gc12 Calibration Date: 04/19/95 Time: 2130

Lab File ID: BYC419 Init. Calib. Date(s): 04/03/95 04/03/95

Heated Purge: (Y/N) N Init. Calib. Times: 1252 1506

GC Column: ID: (mm)

COMPOUND	$\overline{RRF}$	RRF50+	MIN RRF	%D	MAX %D	
Chloromethane	2.862	3.968	00	-38.6	25.0	
Bromomethane	1.908	2.177		-14.1		
Vinyl chloride	2.573	3.087	00	-20.0	25.0	
Chloroethane	1.168	1.155		1.1		
Methylene Chloride	1.818	1.778		2.2		
Acetone	0.688	0.630		8.4		
Carbon Disulfide	5.038	4.258		15.5		
1,1-Dichloroethene	1.225	1.309	00	-6.8	25.0	
1,1-Dichloroethane	4.138	3.689	00	10.9	25.0	
1,2-Dichloroethene (total)	1.679	~~3.248~~	1.624	~~93.4~~	3.3	JSO 5/2/95
Chloroform	3.627	3.247	00	10.5	25.0	
1,2-Dichloroethane	2.956	2.116		28.4		
2-Butanone	1.282	1.333		-4.0		
1,1,1-Trichloroethane	0.577	0.432		25.1		
Carbon Tetrachloride	0.495	0.388		21.6		
Vinyl acetate	1.248	1.350		-8.1		
Bromodichloromethane	0.629	0.572		9.0		
1,2-Dichloropropane	0.498	0.483	00	3.0	25.0	
cis-1,3-Dichloropropene	0.729	0.668		8.4		
Trichloroethene	0.427	0.460		-7.6		
1,1,2-Trichloroethane	0.331	0.322		2.8		
Benzene	1.241	1.199		3.4		
trans-1,3-Dichloropropene	0.700	0.588		16.0		
Bromoform	0.300	0.351	00	-16.9	25.0	
4-Methyl-2-pentanone	0.624	0.603		3.4		
2-Hexanone	0.457	0.441		3.5		
Tetrachloroethene	0.419	0.433		-3.3		
1,1,2,2-Tetrachloroethane	0.590	0.592	00	-0.3	25.0	
Toluene	1.452	1.363	00	6.1	25.0	
Chlorobenzene	0.949	0.984	00	-3.7	25.0	
Ethylbenzene	0.401	0.418	00	-4.4	25.0	
Styrene	0.941	0.993		-5.6		
Xylene (total)	1.257	1.228		2.3		
Acrolein	9.083	10.67		-17.5		
Acrylonitrile	2.840	3.228		-13.7		
Trichlorofluoromethane	1.673	1.417		15.3		
Dichlorodifluoromethane	2.944	2.884		2.1		

All other compounds must meet a minimum RRF of 0.010.

7C

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Roy F. Weston, Inc. Contract: 1989-09-02

Case No.: Techalloy RFW Lot: 9504G211

Instrument ID: gc12 Calibration Date: 04/19/95 Time: 2130

Lab File ID: BYC419 Init. Calib. Date(s): 04/03/95 04/03/95

Heated Purge: (Y/N) N Init. Calib. Times: 1252 1506

GC Column: ID: (mm)

COMPOUND	$\overline{RRF}$	RRF50+	MIN RRF	%D	MAX %D
Acetonitrile	9.296	9.303		-0.1	
Iodomethane	5.751	5.768		-0.3	
Propionitrile (Ethyl Cyanide)	0.301	0.365		-21.2	
3-Chloropropene	1.709	1.514		11.4	
Methacrylonitrile	3.297	3.374		-2.3	
Dibromomethane	0.621	0.587		5.5	
Isobutyl alcohol	1.360	1.469		-8.0	
1,2-Dibromoethane	0.861	0.827		3.9	
1,1,1,2-Tetrachloroethane	0.802	0.805		-0.3	
1,2,3-Trichloropropane	1.222	1.219		0.2	
Methylmethacrylate	1.226	1.008		17.8	
Ethylmethacrylate	1.354	1.122		17.1	
Pentachloroethane	0.508	0.518		-1.9	
Toluene-d8	1.131	1.100		2.8	
4-Bromofluorobenzene	0.651	0.651		0.2	
1,2-Dichloroethane-d4	2.115	1.493		29.5	

Gulf Coast

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcl2.i Injection Date: 19-APR-1995 21:30
Lab File ID: yc419.d Init. Calibration Date(s): 04/03/95 04/03/95
Analysis Type: WATER Init. Calibration Times: 10:34 15:06
Lab Sample ID: Quant Type: ISTD
Method File: /chem/gcl2.i/950419a.b/8240w2.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	1 Dichlorodifluoromethane	2.944	2.884	0.000	2.1	40.0	
	2 Chloromethane	2.862	3.967	0.300	38.6	40.0	
	3 Vinyl Chloride	2.573	3.087	0.000	20.0	25.0	
	4 Bromomethane	1.908	2.177	0.000	14.1	40.0	
	5 Chloroethane	1.168	1.155	0.000	1.1	40.0	
	6 Trichlorofluoromethane	1.673	1.417	0.000	15.3	40.0	
	7 Trichlorotrifluoroethane	++++	++++	0.000	++++	40.0	<-
	8 Methyl-tert-butylether	++++	++++	0.010	++++	40.0	<-
	9 Ethyl ether	++++	++++	0.010	++++	40.0	<-
	10 Acrolein	0.227	0.267	0.000	17.5	40.0	
	11 1,1-Dichloroethene	1.225	1.309	0.000	6.8	25.0	
	12 Iodomethane	2.712	2.884	0.000	6.3	40.0	
	13 Acetone	0.688	0.631	0.000	8.4	40.0	
	14 Carbon Disulfide	5.038	4.258	0.000	15.5	40.0	
	15 3-Chloropropene	0.807	0.757	0.000	6.2	40.0	
	16 Acetonitrile	1.162	1.163	0.000	0.1	40.0	
	17 Methylene Chloride	1.818	1.778	0.000	2.2	40.0	
	18 Acrylonitrile	0.355	0.403	0.000	13.7	40.0	
	19 1,1-Dichloroethane	4.138	3.689	0.300	10.9	40.0	
	20 Vinyl acetate	1.248	1.350	0.000	8.1	40.0	
	21 1,2-Dichloroethene (total)	1.679	1.624	0.000	3.3	40.0	
	22 cis-1,2-Dichloroethene	2.011	2.034	0.000	1.1	40.0	
	23 2-Butanone	1.280	1.333	0.000	4.1	40.0	
	24 Ethyl acetate	++++	++++	0.010	++++	40.0	<-
	25 Propionitrile	0.038	0.046	0.000	20.6	40.0	
	26 Methacrylonitrile	1.541	1.687	0.000	9.5	40.0	
	28 Chloroform	3.496	3.247	0.000	7.1	25.0	
	29 1,1,1-Trichloroethane	0.552	0.432	0.000	21.7	40.0	
	30 Carbon Tetrachloride	0.475	0.388	0.000	18.2	40.0	
	31 Tetrahydrofuran	++++	++++	0.000	++++	40.0	<-
	32 Isobutanol	0.015	0.018	0.000	23.2	40.0	
$	33 1,2-Dichloroethane-d4	2.115	1.493	0.000	29.4	40.0	
	34 Benzene	1.105	1.199	0.000	8.6	40.0	
	35 1,2-Dichloroethane	2.742	2.117	0.000	22.8	40.0	
	37 Crotononitrile	0.034	0.038	0.000	11.7	40.0	
	38 Trichloroethene	0.406	0.459	0.000	13.2	40.0	
	39 1,2-Dichloropropane	0.481	0.483	0.000	0.5	25.0	
	40 Methylmethacrylate	0.536	0.504	0.000	6.0	40.0	
	41 Dibromomethane	0.277	0.293	0.000	5.9	40.0	

Gulf Coast

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcl2.i
Lab File ID: yc419.d
Analysis Type: WATER
Lab Sample ID:
Method File: /chem/gcl2.i/950419a.b/8240w2.m

Injection Date: 19-APR-1995 21:30
Init. Calibration Date(s): 04/03/95 04/03/95
Init. Calibration Times: 10:34 15:06
Quant Type: ISTD

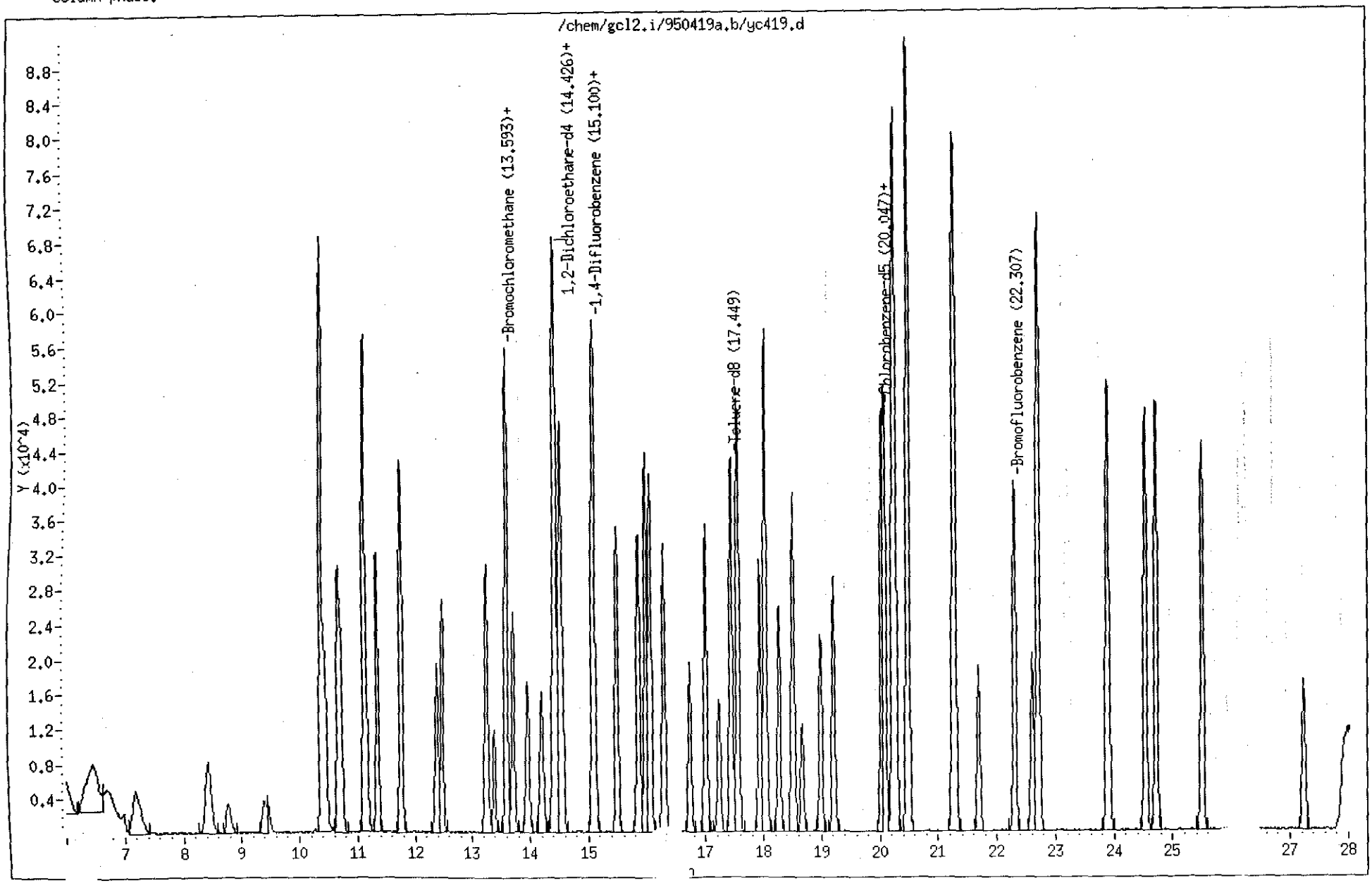
	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	42 Bromodichloromethane	0.602	0.572	0.000	4.9	40.0	
	43 2-Chloroethylvinylether	0.189	0.264	0.000	40.2	40.0	
	44 cis-1,3-Dichloropropene	0.699	0.667	0.000	4.5	40.0	
	45 2-Nitropropane	++++	0.709	0.010	++++	40.0	<-
$	46 Toluene-d8	1.131	1.100	0.000	2.8	40.0	
	47 Toluene	1.363	1.363	0.010	0.0	25.0	
	48 trans-1,3-Dichloropropene	0.673	0.588	0.000	12.5	40.0	
	49 4-Methyl-2-pentanone	0.626	0.603	0.000	3.6	40.0	
	50 Ethylmethacrylate	0.612	0.561	0.000	8.3	40.0	
	51 1,1,2-Trichloroethane	0.319	0.322	0.000	0.7	40.0	
	52 Tetrachloroethene	0.397	0.433	0.000	9.0	40.0	
	53 2-Hexanone	0.457	0.441	0.000	3.5	40.0	
	54 Chlorodibromomethane	0.403	0.440	0.000	9.3	40.0	
	55 1,2-Dibromoethane	0.388	0.414	0.000	6.6	40.0	
	57 Chlorobenzene	0.901	0.984	0.300	9.2	40.0	
	58 1,1,1,2-Tetrachloroethane	0.345	0.402	0.000	16.7	40.0	
	59 Ethylbenzene	0.363	0.419	0.000	15.2	25.0	
	60 m,p-xylene	1.094	1.161	0.000	6.1	40.0	
	61 Xylene (total)	1.172	1.227	0.000	4.7	40.0	
	62 Styrene	0.877	0.993	0.000	13.3	40.0	
	63 Bromoform	0.295	0.351	0.250	19.0	40.0	
$	64 Bromofluorobenzene	0.652	0.650	0.000	0.2	40.0	
	65 1,2,3-Trichloropropane	0.553	0.610	0.000	10.2	40.0	
	66 1,1,2,2-Tetrachloroethane	0.573	0.592	0.300	3.3	40.0	
	67 trans-1,4-Dichloro-2-butene	0.085	0.092	0.000	8.0	40.0	
	68 Pentachloroethane	0.227	0.259	0.000	14.0	40.0	
	69 1,3-Dichlorobenzene	0.775	0.872	0.000	12.6	40.0	
	70 1,4-Dichlorobenzene	0.766	0.863	0.000	12.7	40.0	
	71 1,2-Dichlorobenzene	0.737	0.815	0.000	10.6	40.0	
	72 1,2-dibromo-3-chloropropane	0.116	0.121	0.000	3.8	40.0	
	73 Naphthalene	++++	++++	0.000	++++	40.0	<-

MLC

Data File: /chem/gcl2.i/950419a.b/yc419.d
Date : 19-APR-1995 21:30
Client ID:
Sample Info: STD50++ BXC419
Purge Volume: 5.0
Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950419a.b/yc419.d
Lab Smp Id:
Inj Date : 19-APR-1995 21:30
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : STD50++ BXC419
Misc Info : GCL#2,DIL=1,5MLOFW+5UL IS,SS +2.5UL 292,293+2.5UL299,2
Comment :
Method : /chem/gcl2.i/950419a.b/8240w2.m
Meth Date : 19-Apr-1995 22:11 petruszj Quant Type: ISTD
Cal Date : 19-APR-1995 21:30 Cal File: yc419.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * 1

Name	Value	Description
Uf	1.000	ng unit correction factor

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1	Dichlorodifluoromethane	85.00	5.353	5.353	(0.394)	30837	50.00	48.97 (M)
2	Chloromethane	50.00	6.493	6.493	(0.478)	42428	50.00	69.32
3	Vinyl Chloride	62.00	7.197	7.197	(0.529)	33016	50.00	59.99 (M)
4	Bromomethane	94.00	8.445	8.445	(0.621)	23282	50.00	57.04
5	Chloroethane	64.00	8.767	8.767	(0.645)	12354	50.00	49.46
6	Trichlorofluoromethane	101.00	9.401	9.401	(0.692)	15150	50.00	42.33 (M)
10	Acrolein	56.00	10.392	10.392	(0.764)	114097	2000	2349 (M)
11	1,1-Dichloroethene	96.00	10.451	10.451	(0.769)	13997	50.00	53.40
12	Iodomethane	142.00	10.679	10.679	(0.786)	61686	100.0	106.3
13	Acetone	43.00	10.709	10.709	(0.788)	6743	50.00	45.80
14	Carbon Disulfide	76.00	10.729	10.729	(0.789)	45535	50.00	42.26
15	3-Chloropropene	76.00	11.125	11.125	(0.818)	16185	100.0	93.76
16	Acetonitrile	41.00	11.135	11.135	(0.819)	99488	400.0	400.3
17	Methylene Chloride	84.00	11.343	11.343	(0.834)	19009	50.00	48.89
18	Acrylonitrile	53.00	11.769	11.769	(0.866)	34518	400.0	454.7
19	1,1-Dichloroethane	63.00	12.383	12.383	(0.911)	39447	50.00	44.57
20	Vinyl acetate	43.00	12.483	12.483	(0.828)	74247	50.00	54.06
21	1,2-Dichloroethene (total)	96.00	13.246	13.246	(0.974)	34733	100.0	96.75 (M)
	cis-1,2-Dichloroethene	96.00	13.246	13.246	(0.974)	21749	50.00	50.57
	2-Butanone	43.00	13.285	13.285	(0.977)	14257	50.00	52.07 (M)
	Propionitrile	54.00	13.385	13.385	(0.888)	20069	400.0	482.6
	Methacrylonitrile	41.00	13.593	13.593	(1.000)	36084	100.0	109.4
	Bromochloromethane	127.80	13.593	13.593	(1.000)	10694	50.00	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	28 Chloroform	83.00	13.712	13.712	(1.009)	34722	50.00	46.44
	29 1,1,1-Trichloroethane	97.00	13.960	13.960	(0.926)	23773	50.00	39.14
	30 Carbon Tetrachloride	116.80	14.207	14.207	(0.943)	21353	50.00	40.90
	32 Isobutanol	43.00	14.426	14.426	(0.957)	80806	4000	4930
$	33 1,2-Dichloroethane-d4	65.00	14.445	14.445	(1.063)	15962	50.00	35.29
	34 Benzene	78.00	14.525	14.525	(0.964)	65961	50.00	54.28
	35 1,2-Dichloroethane	62.00	14.565	14.565	(1.071)	22634	50.00	38.59
*	36 1,4-Difluorobenzene	114.00	15.070	15.070	(1.000)	55010	50.00	
	37 Crotononitrile	67.00	15.110	15.110	(1.003)	16694	400.0	446.8
	38 Trichloroethene	130.00	15.486	15.486	(1.028)	25277	50.00	56.61
	39 1,2-Dichloropropane	63.00	15.863	15.863	(1.053)	26589	50.00	50.26
	40 Methylmethacrylate	41.00	15.982	15.982	(1.060)	55460	100.0	94.00
	41 Dibromomethane	174.00	16.051	16.051	(1.065)	32288	100.0	105.9
	42 Bromodichloromethane	83.00	16.289	16.289	(1.081)	31486	50.00	47.54
	43 2-Chloroethylvinylether	63.00	16.735	16.735	(1.110)	14546	50.00	70.12
	44 cis-1,3-Dichloropropene	75.00	17.003	17.003	(1.128)	36718	50.00	47.75
	45 2-Nitropropane	43.00	17.231	17.231	(1.268)	30333	200.0	
$	46 Toluene-d8	98.00	17.439	17.439	(0.870)	55321	50.00	48.62
	47 Toluene	91.00	17.558	17.558	(0.876)	68560	50.00	50.00
	48 trans-1,3-Dichloropropene	75.00	17.935	17.935	(0.895)	29591	50.00	43.74
	4-Methyl-2-pentanone	43.00	17.231	17.231	(0.860)	30333	50.00	48.20
	Ethylmethacrylate	69.00	18.034	18.034	(0.900)	56454	100.0	91.68
	51 1,1,2-Trichloroethane	97.00	18.272	18.272	(1.212)	17689	50.00	50.33
	52 Tetrachloroethene	164.00	18.510	18.510	(0.924)	21771	50.00	54.48
	53 2-Hexanone	43.00	18.669	18.669	(0.932)	22186	50.00	48.26
	54 Chlorodibromomethane	129.00	18.986	18.986	(1.260)	24221	50.00	54.65 (M)
	55 1,2-Dibromoethane	107.00	19.214	19.214	(1.275)	45515	100.0	106.6
*	56 Chlorobenzene-d5	117.00	20.037	20.037	(1.000)	50300	50.00	
	57 Chlorobenzene	112.00	20.096	20.096	(1.003)	49497	50.00	54.59
	58 1,1,1,2-Tetrachloroethane	131.00	20.235	20.235	(1.010)	40481	100.0	116.7
	59 Ethylbenzene	106.00	20.265	20.265	(1.011)	21052	50.00	57.58
	60 m,p-xylene	91.00	20.483	20.483	(1.022)	116827	100.0	106.1
	61 Xylene (total)	91.00	21.256	21.256	(1.061)	61742	50.00	52.37
	62 Styrene	104.00	21.286	21.286	(1.062)	49965	50.00	56.65
	63 Bromoform	173.00	21.692	21.692	(1.439)	19300	50.00	59.49
$	64 Bromofluorobenzene	95.00	22.307	22.307	(1.113)	32705	50.00	49.89
	65 1,2,3-Trichloropropane	75.00	22.713	22.713	(1.134)	61327	100.0	110.2
	66 1,1,2,2-Tetrachloroethane	83.00	22.604	22.604	(1.128)	29759	50.00	51.65
	67 trans-1,4-Dichloro-2-butene	89.00	22.723	22.723	(1.134)	9217	100.0	108.0
	68 Pentachloroethane	167.00	23.892	23.892	(1.192)	26036	100.0	114.0
	69 1,3-Dichlorobenzene	146.00	24.537	24.537	(1.225)	43868	50.00	56.30
	70 1,4-Dichlorobenzene	146.00	24.715	24.715	(1.233)	43421	50.00	56.35
	71 1,2-Dichlorobenzene	146.00	25.498	25.498	(1.273)	40995	50.00	55.30
	72 1,2-dibromo-3-chloropropane	157.00	27.235	27.235	(1.359)	12165	100.0	103.8

'lag Legend

M - Compound response manually integrated.

Gulf Coast

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcl2.i Injection Date: 20-APR-1995 10:30
Lab File ID: ya420.d Init. Calibration Date(s): 07/27/93 04/17/95
Analysis Type: SOIL Init. Calibration Times: 14:25 20:50
Lab Sample ID: Quant Type: ISTD
Method File: /chem/gcl2.i/950420.b/8240s2.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	1 Dichlorodifluoromethane	1.522	1.827	0.000	20.0	40.0	
	2 Chloromethane	2.644	3.172	0.300	20.0	40.0	
	3 Vinyl Chloride	2.406	2.489	0.000	3.4	25.0	
	4 Bromomethane	1.788	1.859	0.000	3.9	40.0	
	5 Chloroethane	0.882	1.001	0.000	13.5	40.0	
	6 Trichlorofluoromethane	0.994	0.903	0.000	9.1	40.0	
	7 Methyl-tert-butylether	++++	++++	0.010	++++	40.0	<-
	8 Acrolein	0.256	0.287	0.000	12.0	40.0	
	9 1,1-Dichloroethene	1.233	1.220	0.000	1.0	25.0	
	10 Trichlorotrifluoroethane	0.847	++++	0.000	++++	40.0	<-
	11 Acetone	0.901	0.545	0.000	39.5	40.0	
	12 Iodomethane	2.792	2.767	0.000	0.9	40.0	
	13 Carbon Disulfide	4.127	4.006	0.000	2.9	40.0	
	14 3-Chloropropene	0.744	0.730	0.000	1.8	40.0	
	15 Acetonitrile	1.097	1.127	0.000	2.8	40.0	
	16 Methylene Chloride	1.646	1.771	0.000	7.6	40.0	
	17 Acrylonitrile	0.528	0.432	0.000	18.2	40.0	
	18 1,2-Dichloroethene (total)	1.772	1.598	0.000	9.8	40.0	
	19 1,1-Dichloroethane	3.757	3.593	0.300	4.4	40.0	
	20 Vinyl acetate	1.682	1.463	0.000	13.1	40.0	
	21 Ethyl ether	++++	++++	0.010	++++	40.0	<-
	22 cis-1,2-Dichloroethene	1.955	2.045	0.000	4.6	40.0	
	23 2-Butanone	2.482	1.527	0.000	38.5	40.0	
	24 Propionitrile	0.074	0.054	0.000	27.0	40.0	
	25 Ethyl acetate	0.235	0.195	0.010	17.2	40.0	
	26 Methacrylonitrile	2.400	2.037	0.000	15.1	40.0	
	28 Tetrahydrofuran	8.607	++++	0.000	++++	40.0	<-
	29 Chloroform	3.499	3.218	0.000	8.0	25.0	
	30 1,1,1-Trichloroethane	0.511	0.437	0.000	14.5	40.0	
	31 Carbon Tetrachloride	0.468	0.398	0.000	14.9	40.0	
	32 Isobutanol	0.034	0.030	0.000	10.7	40.0	
$	33 1,2-Dichloroethane-d4	1.844	1.517	0.000	17.7	40.0	
	34 Benzene	1.103	1.263	0.000	14.6	40.0	
	35 1,2-Dichloroethane	2.438	2.171	0.000	11.0	40.0	
	36 Crotononitrile	0.055	0.044	0.000	19.1	40.0	
	38 Trichloroethene	0.457	0.482	0.000	5.5	40.0	
	39 1,2-Dichloropropane	0.491	0.492	0.000	0.3	25.0	
	40 Methylmethacrylate	0.739	0.625	0.000	15.4	40.0	
	41 Dibromomethane	0.312	0.335	0.000	7.5	40.0	

Gulf Coast

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcl2.i Injection Date: 20-APR-1995 10:30
Lab File ID: ya420.d Init. Calibration Date(s): 07/27/93 04/17/95
Analysis Type: SOIL Init. Calibration Times: 14:25 20:50
Lab Sample ID: Quant Type: ISTD
Method File: /chem/gcl2.i/950420.b/8240s2.m

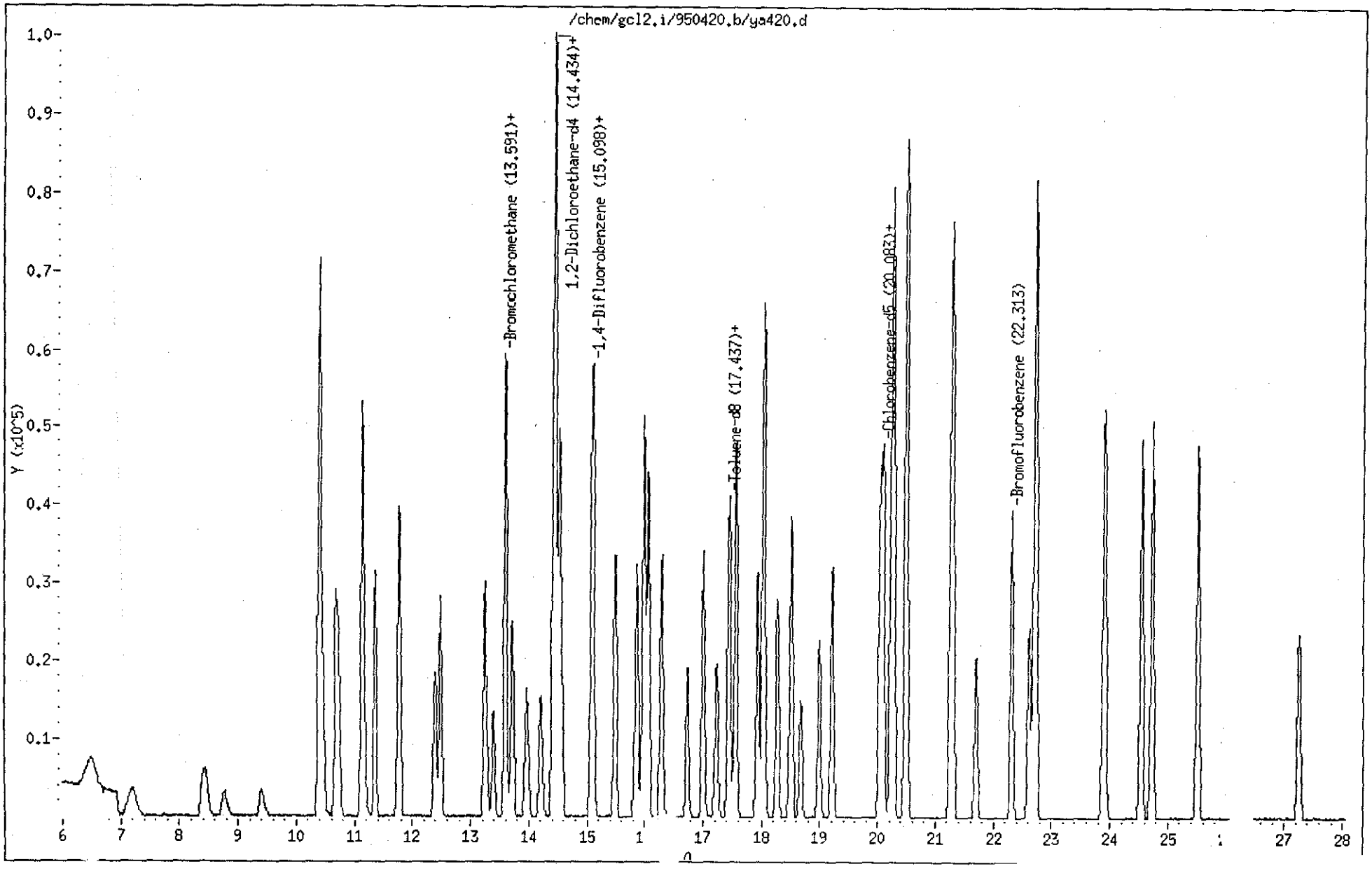
	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	42 Bromodichloromethane	0.658	0.600	0.000	8.9	40.0	
	43 2-Chloroethylvinylether	0.375	0.275	0.000	26.7	40.0	
	44 2-Nitropropane	1.071	0.911	0.010	14.9	40.0	
	45 cis-1,3-Dichloropropene	0.843	0.688	0.000	18.4	40.0	
	46 4-Methyl-2-pentanone	1.116	0.807	0.000	27.7	40.0	
$	47 Toluene-d8	1.118	1.112	0.000	0.5	40.0	
	48 Toluene	1.449	1.381	0.010	4.7	25.0	
	49 trans-1,3-Dichloropropene	0.746	0.627	0.000	16.0	40.0	
	50 Ethylmethacrylate	0.777	0.693	0.000	10.8	40.0	
	51 1,1,2-Trichloroethane	0.381	0.366	0.000	4.0	40.0	
	52 Tetrachloroethene	0.543	0.471	0.000	13.2	40.0	
	53 2-Hexanone	0.825	0.560	0.000	32.1	40.0	
	54 Dibromochloromethane	0.498	0.490	0.000	1.7	40.0	
	55 1,2-Dibromoethane	0.553	0.473	0.000	14.4	40.0	
	57 Chlorobenzene	1.023	1.018	0.300	0.4	40.0	
	58 1,1,1,2-Tetrachloroethane	0.395	0.430	0.000	8.8	40.0	
	59 Ethylbenzene	0.401	0.428	0.000	6.7	25.0	
	60 m,p-xylene	1.108	1.185	0.000	7.0	40.0	
	61 Xylene (total)	1.178	1.252	0.000	6.3	40.0	
	62 Styrene	0.904	1.040	0.000	15.0	40.0	
	63 Bromoform	0.422	0.413	0.250	2.3	40.0	
$	64 Bromofluorobenzene	0.654	0.681	0.000	4.1	40.0	
	65 1,1,2,2-Tetrachloroethane	0.763	0.737	0.300	3.5	40.0	
	66 trans-1,4-Dichloro-2-butene	0.121	0.117	0.000	3.0	40.0	
	67 1,2,3-Trichloropropane	0.850	0.788	0.000	7.4	40.0	
	68 Pentachloroethane	0.209	0.278	0.000	32.9	40.0	
	69 1,3-Dichlorobenzene	0.795	0.960	0.000	20.9	40.0	
	70 1,4-Dichlorobenzene	0.796	0.954	0.000	19.8	40.0	
	71 1,2-Dichlorobenzene	0.787	0.933	0.000	18.5	40.0	
	72 1,2-dibromo-3-chloropropane	0.173	0.182	0.000	5.3	40.0	
	73 Naphthalene	++++	++++	0.000	++++	40.0	<-

Data File: /chem/gcl2.i/950420.b/ya420.d
Date : 20-APR-1995 10:30
Client ID:
Sample Info: STD50 BXB420

Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950420.b/ya420.d
Lab Smp Id:
Inj Date : 20-APR-1995 10:30
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : STD50 BXB420
Misc Info : GCL#2,DIL=1,5MLOFW+5ULIS,SS+2.5UL295,299,269,288+2UL26
Comment :
Method : /chem/gcl2.i/950420.b/8240s2.m
Meth Date : 20-Apr-1995 11:10 petruszj Quant Type: ISTD
Cal Date : 20-APR-1995 10:30 Cal File: ya420.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * (Vt * 1000)/(Va * Ws * (100 - M)/100)

Name	Value	Description
Ws	5.000	Weight of sample extracted (g)
Vt	10.000	Volume of final extract (mL)
Va	100.000	Volume of aliquot extract added (uL)
M	0.000	% Moisture (not decanted)
Uf	1.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Dichlorodifluoromethane	85.00	5.301	5.301	(0.000)	19115	50.00	60.02(M)
2 Chloromethane	50.00	6.471	6.471	(0.000)	33175	50.00	59.98(M)
3 Vinyl Chloride	62.00	7.204	7.204	(0.530)	26034	50.00	51.72(M)
4 Bromomethane	94.00	8.432	8.432	(0.620)	19443	50.00	51.96(M)
5 Chloroethane	64.00	8.765	8.765	(0.645)	10468	50.00	56.76(M)
6 Trichlorofluoromethane	101.00	9.400	9.400	(0.692)	9450	50.00	45.46(M)
8 Acrolein	56.00	10.400	10.400	(0.765)	120201	2000	2241(M)
9 1,1-Dichloroethene	96.00	10.460	10.460	(0.770)	12765	50.00	49.48(M)
11 Acetone	43.00	10.717	10.717	(1.000)	5699	50.00	30.25
12 Iodomethane	142.00	10.678	10.678	(1.000)	57890	100.0	99.12
13 Carbon Disulfide	76.00	10.727	10.727	(1.000)	41900	50.00	48.53
14 3-Chloropropene	76.00	11.134	11.134	(1.000)	15280	100.0	98.15
15 Acetonitrile	41.00	11.134	11.134	(1.000)	94348	400.0	411.1
16 Methylene Chloride	84.00	11.352	11.352	(0.835)	18526	50.00	53.80(M)
17 Acrylonitrile	53.00	11.778	11.778	(1.000)	36117	400.0	327.2
1,2-Dichloroethene (total)	96.00	13.244	13.244	(0.974)	33430	100.0	90.20(M)
1,1-Dichloroethane	63.00	12.382	12.382	(0.911)	37579	50.00	47.81(M)
20 Vinyl acetate	43.00	12.481	12.481	(1.000)	75552	50.00	43.47
22 cis-1,2-Dichloroethene	96.00	13.244	13.244	(0.974)	21394	50.00	52.31(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
23	2-Butanone	43.00	13.294	13.294	(0.978)	15975	50.00	30.77 (M)
24	Propionitrile	54.00	13.393	13.393	(1.000)	22425	400.0	292.1
25	Ethyl acetate	43.00	13.294	13.294	(0.978)	16312	400.0	331.2 (M)
26	Methacrylonitrile	41.00	13.591	13.591	(1.000)	42616	100.0	84.88
* 27	Bromochloromethane	127.80	13.591	13.591	(1.000)	10460	50.00	(M)
29	Chloroform	83.00	13.720	13.720	(1.009)	33663	50.00	45.99 (M)
30	1,1,1-Trichloroethane	97.00	13.958	13.958	(0.926)	22567	50.00	42.76 (M)
31	Carbon Tetrachloride	116.80	14.206	14.206	(0.942)	20568	50.00	42.55 (M)
32	Isobutanol	43.00	14.434	14.434	(1.000)	123994	4000	3574
$ 33	1,2-Dichloroethane-d4	65.00	14.453	14.453	(1.063)	15872	50.00	41.14 (M)
34	Benzene	78.00	14.523	14.523	(0.963)	65259	50.00	57.28 (M)
35	1,2-Dichloroethane	62.00	14.563	14.563	(1.071)	22709	50.00	44.52 (M)
36	Crotononitrile	67.00	15.108	15.108	(1.000)	18241	400.0	323.6
* 37	1,4-Difluorobenzene	114.00	15.078	15.078	(1.000)	51657	50.00	(M)
38	Trichloroethene	130.00	15.484	15.484	(1.027)	24873	50.00	52.73 (M)
39	1,2-Dichloropropane	63.00	15.851	15.851	(1.051)	25426	50.00	50.17 (M)
40	Methylmethacrylate	41.00	15.980	15.980	(1.000)	64540	100.0	84.58
41	Dibromomethane	174.00	16.050	16.050	(1.064)	34626	100.0	107.4 (M)
42	Bromodichloromethane	83.00	16.288	16.288	(1.080)	30977	50.00	45.55 (M)
43	2-Chloroethylvinylether	63.00	16.723	16.723	(1.000)	14213	50.00	36.64
	2-Nitropropane	43.00	17.229	17.229	(1.000)	38108	200.0	170.1
	cis-1,3-Dichloropropene	75.00	17.001	17.001	(1.128)	35534	50.00	40.81 (M)
46	4-Methyl-2-pentanone	43.00	17.229	17.229	(1.000)	38108	50.00	36.16
$ 47	Toluene-d8	98.00	17.437	17.437	(0.870)	52540	50.00	49.77 (M)
48	Toluene	91.00	17.556	17.556	(0.876)	65220	50.00	47.66 (M)
49	trans-1,3-Dichloropropene	75.00	17.923	17.923	(0.895)	29603	50.00	42.02 (M)
50	Ethylmethacrylate	69.00	18.032	18.032	(1.000)	65455	100.0	89.16
51	1,1,2-Trichloroethane	97.00	18.270	18.270	(1.212)	18896	50.00	48.00 (M)
52	Tetrachloroethene	164.00	18.498	18.498	(0.923)	22245	50.00	43.39 (M)
53	2-Hexanone	43.00	18.666	18.666	(1.000)	26457	50.00	33.96
54	Dibromochloromethane	129.00	18.983	18.983	(1.259)	25312	50.00	49.16 (M)
55	1,2-Dibromoethane	107.00	19.211	19.211	(1.000)	48913	100.0	85.56
* 56	Chlorobenzene-d5	117.00	20.033	20.033	(1.000)	47229	50.00	(M)
57	Chlorobenzene	112.00	20.093	20.093	(1.003)	48082	50.00	49.78 (M)
58	1,1,1,2-Tetrachloroethane	131.00	20.232	20.232	(1.010)	40627	100.0	108.8 (M)
59	Ethylbenzene	106.00	20.272	20.272	(1.012)	20192	50.00	53.37 (M)
60	m,p-xylene	91.00	20.490	20.490	(1.000)	111903	100.0	107.0
61	Xylene (total)	91.00	21.263	21.263	(1.000)	59139	50.00	53.14
62	Styrene	104.00	21.293	21.293	(1.063)	49108	50.00	57.49 (M)
63	Bromoform	173.00	21.699	21.699	(1.439)	21311	50.00	48.87 (M)
64	Bromofluorobenzene	95.00	22.313	22.313	(1.000)	32142	50.00	52.06
65	1,1,2,2-Tetrachloroethane	83.00	22.610	22.610	(1.129)	34799	50.00	48.25 (M)
66	trans-1,4-Dichloro-2-butene	89.00	22.730	22.730	(1.000)	11057	100.0	97.02
67	1,2,3-Trichloropropane	75.00	22.710	22.710	(1.000)	74405	100.0	92.63
68	Pentachloroethane	167.00	23.899	23.899	(1.000)	26271	100.0	132.9
	1,3-Dichlorobenzene	146.00	24.534	24.534	(1.225)	45354	50.00	60.43 (M)
	1,4-Dichlorobenzene	146.00	24.722	24.722	(1.234)	45071	50.00	59.92 (M)
71	1,2-Dichlorobenzene	146.00	25.506	25.506	(1.273)	44053	50.00	59.26 (M)
72	1,2-dibromo-3-chloropropane	157.00	27.242	27.242	(1.360)	17219	100.0	105.3 (M)

QC Flag Legend

M - Compound response manually integrated.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Roy F. Weston, Inc. Contract: 1989-09-02

Case No.: Techalloy RFW Lot: 9504G211

Instrument ID: gc12 Calibration Date: 04/20/95 Time: 2038

Lab File ID: BYB420 Init. Calib. Date(s): 04/03/95 04/03/95

Heated Purge: (Y/N) N Init. Calib. Times: 1252 1506

GC Column: ID: (mm)

COMPOUND	$\overline{RRF}$	RRF50+	MIN RRF	%D	MAX %D
Chloromethane	2.862	2.924	00	-2.2	25.0
Bromomethane	1.908	1.787		6.3	
Vinyl chloride	2.573	2.347	00	8.8	25.0
Chloroethane	1.168	0.912		21.9	
Methylene Chloride	1.818	1.585		12.8	
Acetone	0.688	0.373		45.7	
Carbon Disulfide	5.038	3.651		27.5	
1,1-Dichloroethene	1.225	1.136	00	7.2	25.0
1,1-Dichloroethane	4.138	3.399	00	17.9	25.0
1,2-Dichloroethene (total)	1.679	~~2.900~~	1.450	~~72.7~~	13.6
Chloroform	3.627	2.936	00	19.0	25.0
1,2-Dichloroethane	2.956	1.934		34.6	
2-Butanone	1.282	0.983		23.3	
1,1,1-Trichloroethane	0.577	0.390		32.5	
Carbon Tetrachloride	0.495	0.353		28.8	
Vinyl acetate	1.248	1.199		3.9	
Bromodichloromethane	0.629	0.524		16.7	
1,2-Dichloropropane	0.498	0.430	00	13.6	25.0
cis-1,3-Dichloropropene	0.729	0.597		18.1	
Trichloroethene	0.427	0.423		1.0	
1,1,2-Trichloroethane	0.331	0.301		9.0	
Benzene	1.241	1.122		9.6	
trans-1,3-Dichloropropene	0.700	0.514		26.6	
Bromoform	0.300	0.303	00	-0.9	25.0
4-Methyl-2-pentanone	0.624	0.495		20.7	
2-Hexanone	0.457	0.329		28.1	
Tetrachloroethene	0.419	0.389		7.1	
1,1,2,2-Tetrachloroethane	0.590	0.529	00	10.3	25.0
Toluene	1.452	1.248	00	14.0	25.0
Chlorobenzene	0.949	0.873	00	8.0	25.0
Ethylbenzene	0.401	0.376	00	6.4	25.0
Styrene	0.941	0.895		4.9	
Xylene (total)	1.257	1.086		13.6	
Acrolein	9.083	9.727		-7.1	
Acrylonitrile	2.840	2.678		5.7	
Trichlorofluoromethane	1.673	1.234		26.2	
Dichlorodifluoromethane	2.944	1.749		40.6	

USD 5/12/95

All other compounds must meet a minimum RRF of 0.010.

7C
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Roy F. Weston, Inc. Contract: 1989-09-02

Case No.: Techalloy RFW Lot: 9504G211

Instrument ID: gc12 Calibration Date: 04/20/95 Time: 2038

Lab File ID: BYB420 Init. Calib. Date(s): 04/03/95 04/03/95

Heated Purge: (Y/N) N Init. Calib. Times: 1252 1506

GC Column: ID: (mm)

COMPOUND	$\overline{RRF}$	RRF50+	MIN RRF	%D	MAX %D
Acetonitrile	9.296	8.512		8.4	
Iodomethane	5.751	5.502		4.3	
Propionitrile (Ethyl Cyanide)	0.301	0.317		-5.2	
3-Chloropropene	1.709	1.430		16.3	
Methacrylonitrile	3.297	3.226		2.2	
Dibromomethane	0.621	0.596		4.1	
Isobutyl alcohol	1.360	1.352		0.6	
1,2-Dibromoethane	0.861	0.804		6.7	
1,1,1,2-Tetrachloroethane	0.802	0.786		2.0	
1,2,3-Trichloropropane	1.222	1.131		7.4	
Methylmethacrylate	1.226	0.964		21.4	
Ethylmethacrylate	1.354	1.074		20.7	
Pentachloroethane	0.508	0.490		3.5	
Toluene-d8	1.131	1.102		2.6	
4-Bromofluorobenzene	0.651	0.641		1.5	
1,2-Dichloroethane-d4	2.115	1.540		27.2	

FORM VII VO-2 3/90 Rev.

Gulf Coast

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: gcl2.i Injection Date: 20-APR-1995 20:38
Lab File ID: yb420.d Init. Calibration Date(s): 04/03/95 04/03/95
Analysis Type: WATER Init. Calibration Times: 10:34 15:06
Lab Sample ID: Quant Type: ISTD
Method File: /chem/gcl2.i/950420a.b/8240w2.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
1	Dichlorodifluoromethane	2.944	1.749	0.000	40.6	40.0	
2	Chloromethane	2.862	2.924	0.300	2.2	40.0	
3	Vinyl Chloride	2.573	2.347	0.000	8.8	25.0	
4	Bromomethane	1.908	1.787	0.000	6.4	40.0	
5	Chloroethane	1.168	0.912	0.000	21.9	40.0	
6	Trichlorofluoromethane	1.673	1.234	0.000	26.2	40.0	
7	Trichlorotrifluoroethane	++++	1.234	0.000	++++	40.0	<-
8	Methyl-tert-butylether	++++	++++	0.010	++++	40.0	<-
9	Ethyl ether	++++	++++	0.010	++++	40.0	<-
10	Acrolein	0.227	0.243	0.000	7.1	40.0	
11	1,1-Dichloroethene	1.225	1.136	0.000	7.3	25.0	
12	Iodomethane	2.712	2.751	0.000	1.4	40.0	
13	Acetone	0.688	0.373	0.000	45.8	40.0	
14	Carbon Disulfide	5.038	3.651	0.000	27.5	40.0	
15	3-Chloropropene	0.807	0.715	0.000	11.4	40.0	
16	Acetonitrile	1.162	1.064	0.000	8.4	40.0	
17	Methylene Chloride	1.818	1.585	0.000	12.8	40.0	
18	Acrylonitrile	0.355	0.335	0.000	5.7	40.0	
19	1,1-Dichloroethane	4.138	3.399	0.300	17.9	40.0	
20	Vinyl acetate	1.248	1.199	0.000	3.9	40.0	
21	1,2-Dichloroethene (total)	1.679	1.450	0.000	13.6	40.0	
22	cis-1,2-Dichloroethene	2.011	1.883	0.000	6.3	40.0	
23	2-Butanone	1.280	0.983	0.000	23.2	40.0	
24	Ethyl acetate	++++	0.121	0.010	++++	40.0	<-
25	Propionitrile	0.038	0.040	0.000	4.7	40.0	
26	Methacrylonitrile	1.541	1.613	0.000	4.6	40.0	
28	Chloroform	3.496	2.936	0.000	16.0	25.0	
29	1,1,1-Trichloroethane	0.552	0.390	0.000	29.4	40.0	
30	Carbon Tetrachloride	0.475	0.353	0.000	25.7	40.0	
31	Tetrahydrofuran	++++	++++	0.000	++++	40.0	<-
32	Isobutanol	0.015	0.017	0.000	13.4	40.0	
$ 33	1,2-Dichloroethane-d4	2.115	1.540	0.000	27.2	40.0	
34	Benzene	1.105	1.122	0.000	1.6	40.0	
35	1,2-Dichloroethane	2.742	1.934	0.000	29.5	40.0	
37	Crotononitrile	0.034	0.033	0.000	2.8	40.0	
38	Trichloroethene	0.406	0.423	0.000	4.1	40.0	
39	1,2-Dichloropropane	0.481	0.430	0.000	10.5	25.0	
40	Methylmethacrylate	0.536	0.482	0.000	10.1	40.0	
41	Dibromomethane	0.277	0.298	0.000	7.5	40.0	

Gulf Coast

CONTINUING CALIBRATION COMPOUNDS

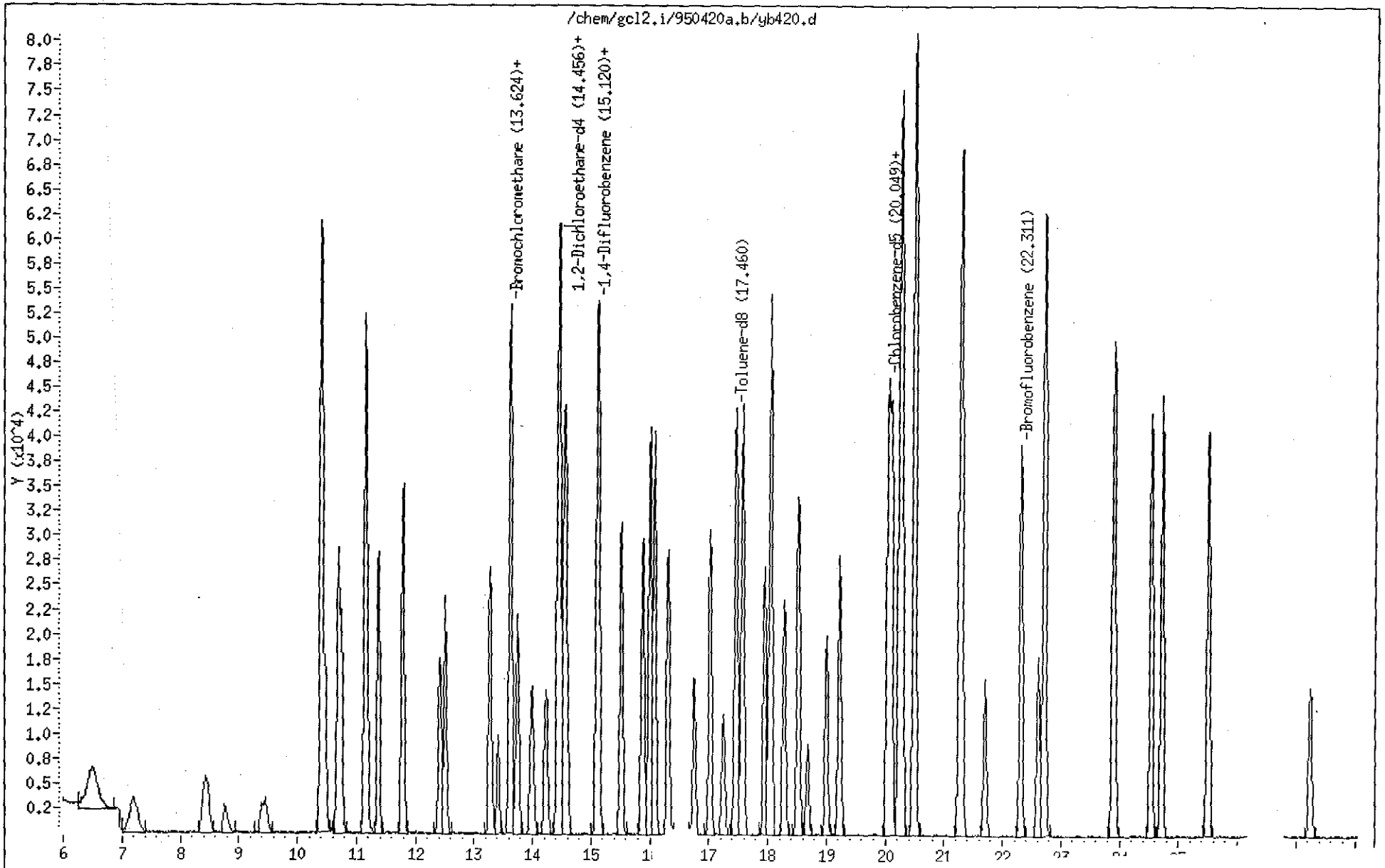
Instrument ID: gcl2.i Injection Date: 20-APR-1995 20:38
Lab File ID: yb420.d Init. Calibration Date(s): 04/03/95 04/03/95
Analysis Type: WATER Init. Calibration Times: 10:34 15:06
Lab Sample ID: Quant Type: ISTD
Method File: /chem/gcl2.i/950420a.b/8240w2.m

	COMPOUND	RRF	RF50	MIN RRF	%D	MAX %D	
	42 Bromodichloromethane	0.602	0.524	0.000	13.0	40.0	
	43 2-Chloroethylvinylether	0.189	0.219	0.000	16.1	40.0	
	44 cis-1,3-Dichloropropene	0.699	0.597	0.000	14.6	40.0	
	45 2-Nitropropane	++++	0.577	0.010	++++	40.0	<-
$	46 Toluene-d8	1.131	1.103	0.000	2.5	40.0	
	47 Toluene	1.363	1.248	0.010	8.4	25.0	
	48 trans-1,3-Dichloropropene	0.673	0.514	0.000	23.6	40.0	
	49 4-Methyl-2-pentanone	0.626	0.495	0.000	20.9	40.0	
	50 Ethylmethacrylate	0.612	0.537	0.000	12.3	40.0	
	51 1,1,2-Trichloroethane	0.319	0.301	0.000	5.7	40.0	
	52 Tetrachloroethene	0.397	0.389	0.000	2.0	40.0	
	53 2-Hexanone	0.457	0.329	0.000	28.1	40.0	
	54 Chlorodibromomethane	0.403	0.412	0.000	2.2	40.0	
	55 1,2-Dibromoethane	0.388	0.402	0.000	3.5	40.0	
	57 Chlorobenzene	0.901	0.873	0.300	3.2	40.0	
	58 1,1,1,2-Tetrachloroethane	0.345	0.393	0.000	14.0	40.0	
	59 Ethylbenzene	0.363	0.375	0.000	3.3	25.0	
	60 m,p-xylene	1.094	1.036	0.000	5.3	40.0	
	61 Xylene (total)	1.172	1.086	0.000	7.3	40.0	
	62 Styrene	0.877	0.895	0.000	2.1	40.0	
	63 Bromoform	0.295	0.303	0.250	2.6	40.0	
$	64 Bromofluorobenzene	0.652	0.641	0.000	1.6	40.0	
	65 1,2,3-Trichloropropane	0.553	0.566	0.000	2.3	40.0	
	66 1,1,2,2-Tetrachloroethane	0.573	0.529	0.300	7.6	40.0	
	67 trans-1,4-Dichloro-2-butene	0.085	0.080	0.000	6.2	40.0	
	68 Pentachloroethane	0.227	0.245	0.000	7.9	40.0	
	69 1,3-Dichlorobenzene	0.775	0.790	0.000	2.0	40.0	
	70 1,4-Dichlorobenzene	0.766	0.783	0.000	2.2	40.0	
	71 1,2-Dichlorobenzene	0.737	0.764	0.000	3.7	40.0	
	72 1,2-dibromo-3-chloropropane	0.116	0.115	0.000	1.5	40.0	
	73 Naphthalene	++++	++++	0.000	++++	40.0	<-

Data File: /chem/gcl2.i/950420a.b/yb420.d
Date : 20-APR-1995 20:38
Client ID:
Sample Info: STD50+++ BXC420
Purge Volume: 5.0
Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950420a.b/yb420.d
Lab Smp Id:
Inj Date : 20-APR-1995 20:38
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : STD50+++ BXC420
Misc Info : GCL#2,DIL=1,5MLOFW+5ULIS,SS+2.5UL299,295,288,269+2UL26
Comment :
Method : /chem/gcl2.i/950420a.b/8240w2.m
Meth Date : 20-Apr-1995 21:32 petruszj Quant Type: ISTD
Cal Date : 20-APR-1995 20:38 Cal File: yb420.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * 1

Name	Value	Description
Uf	1.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
1 Dichlorodifluoromethane	85.00	5.294	5.294	(0.389)	18421	50.00	29.69 (M)
2 Chloromethane	50.00	6.483	6.483	(0.476)	30809	50.00	51.10
3 Vinyl Chloride	62.00	7.196	7.196	(0.528)	24727	50.00	45.60 (M)
4 Bromomethane	94.00	8.444	8.444	(0.620)	18828	50.00	46.82 (M)
5 Chloroethane	64.00	8.759	8.759	(0.643)	9611	50.00	39.06
6 Trichlorofluoromethane	101.00	9.462	9.462	(0.695)	13002	50.00	36.88 (M)
7 Trichlorotrifluoroethane	101.00	9.462	9.462	(0.695)	12999	50.00	(M)
10 Acrolein	56.00	10.403	10.403	(0.764)	102473	2000	2142 (M)
11 1,1-Dichloroethene	96.00	10.473	10.473	(0.769)	11971	50.00	46.36
12 Iodomethane	142.00	10.691	10.691	(0.785)	57966	100.0	101.4
13 Acetone	43.00	10.720	10.720	(0.787)	3934	50.00	27.12 (M)
14 Carbon Disulfide	76.00	10.750	10.750	(0.789)	38463	50.00	36.23
15 3-Chloropropene	76.00	11.156	11.156	(0.819)	15064	100.0	88.58
16 Acetonitrile	41.00	11.156	11.156	(0.819)	89671	400.0	366.3
17 Methylene Chloride	84.00	11.375	11.375	(0.835)	16694	50.00	43.58
18 Acrylonitrile	53.00	11.791	11.791	(0.865)	28217	400.0	377.3
19 1,1-Dichloroethane	63.00	12.415	12.415	(0.911)	35805	50.00	41.07
20 Vinyl acetate	43.00	12.504	12.504	(0.828)	64185	50.00	48.03
21 1,2-Dichloroethene (total)	96.00	13.267	13.267	(0.974)	30549	100.0	86.38 (M)
cis-1,2-Dichloroethene	96.00	13.267	13.267	(0.974)	19840	50.00	46.83
22 2-Butanone	43.00	13.316	13.316	(0.977)	10357	50.00	38.40 (M)
24 Ethyl acetate	43.00	13.316	13.316	(0.977)	10160	400.0	(M)
25 Propionitrile	54.00	13.415	13.415	(0.888)	16948	400.0	418.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
26	Methacrylonitrile	41.00	13.624	13.624	(1.000)	33985	100.0	104.6
27	Bromochloromethane	127.80	13.624	13.624	(1.000)	10535	50.00	
28	Chloroform	83.00	13.743	13.743	(1.009)	30933	50.00	42.00
29	1,1,1-Trichloroethane	97.00	13.990	13.990	(0.926)	20861	50.00	35.30
30	Carbon Tetrachloride	116.80	14.228	14.228	(0.942)	18873	50.00	37.15
32	Isobutanol	43.00	14.446	14.446	(0.957)	72356	4000	4536
33	1,2-Dichloroethane-d4	65.00	14.476	14.476	(1.063)	16226	50.00	36.41
34	Benzene	78.00	14.546	14.546	(0.963)	60080	50.00	50.81
35	1,2-Dichloroethane	62.00	14.595	14.595	(1.071)	20373	50.00	35.26
36	1,4-Difluorobenzene	114.00	15.100	15.100	(1.000)	53528	50.00	
37	Crotononitrile	67.00	15.130	15.130	(1.002)	14130	400.0	388.7
38	Trichloroethene	130.00	15.517	15.517	(1.028)	22622	50.00	52.07
39	1,2-Dichloropropane	63.00	15.883	15.883	(1.052)	23033	50.00	44.74
40	Methylmethacrylate	41.00	16.002	16.002	(1.060)	51585	100.0	89.85
41	Dibromomethane	174.00	16.082	16.082	(1.065)	31894	100.0	107.5
42	Bromodichloromethane	83.00	16.320	16.320	(1.081)	28038	50.00	43.50
43	2-Chloroethylvinylether	63.00	16.746	16.746	(1.109)	11714	50.00	58.03
44	cis-1,3-Dichloropropene	75.00	17.023	17.023	(1.127)	31955	50.00	42.71
45	2-Nitropropane	43.00	17.251	17.251	(1.266)	24328	200.0	
46	Toluene-d8	98.00	17.460	17.460	(0.871)	54234	50.00	48.74
	Toluene	91.00	17.569	17.569	(0.876)	61396	50.00	45.79
	trans-1,3-Dichloropropene	75.00	17.946	17.946	(0.895)	25262	50.00	38.18
49	4-Methyl-2-pentanone	43.00	17.251	17.251	(0.860)	24328	50.00	39.53
50	Ethylmethacrylate	69.00	18.045	18.045	(0.900)	52823	100.0	87.73
51	1,1,2-Trichloroethane	97.00	18.284	18.284	(1.211)	16125	50.00	47.15
52	Tetrachloroethene	164.00	18.522	18.522	(0.924)	19154	50.00	49.02
53	2-Hexanone	43.00	18.680	18.680	(0.932)	16165	50.00	35.96
54	Chlorodibromomethane	129.00	18.998	18.998	(1.258)	22035	50.00	51.10 (M)
55	1,2-Dibromoethane	107.00	19.226	19.226	(1.273)	43021	100.0	103.5
56	Chlorobenzene-d5	117.00	20.049	20.049	(1.000)	49184	50.00	
57	Chlorobenzene	112.00	20.099	20.099	(1.002)	42924	50.00	48.42
58	1,1,1,2-Tetrachloroethane	131.00	20.248	20.248	(1.010)	38675	100.0	114.0
59	Ethylbenzene	106.00	20.277	20.277	(1.011)	18467	50.00	51.65
60	m,p-xylene	91.00	20.496	20.496	(1.022)	101889	100.0	94.67
61	Xylene (total)	91.00	21.259	21.259	(1.060)	53432	50.00	46.35
62	Styrene	104.00	21.299	21.299	(1.062)	44021	50.00	51.04
63	Bromoform	173.00	21.695	21.695	(1.437)	16196	50.00	51.30
64	Bromofluorobenzene	95.00	22.311	22.311	(1.113)	31528	50.00	49.19
65	1,2,3-Trichloropropane	75.00	22.707	22.707	(1.133)	55649	100.0	102.3
66	1,1,2,2-Tetrachloroethane	83.00	22.608	22.608	(1.128)	26039	50.00	46.22
67	trans-1,4-Dichloro-2-butene	89.00	22.717	22.717	(1.133)	7832	100.0	93.84
68	Pentachloroethane	167.00	23.887	23.887	(1.191)	24099	100.0	107.9
69	1,3-Dichlorobenzene	146.00	24.533	24.533	(1.224)	38857	50.00	51.00
70	1,4-Dichlorobenzene	146.00	24.712	24.712	(1.233)	38506	50.00	51.11
71	1,2-Dichlorobenzene	146.00	25.495	25.495	(1.272)	37566	50.00	51.83
	1,2-dibromo-3-chloropropane	157.00	27.232	27.232	(1.358)	11282	100.0	98.46

QC Flag Legend

M - Compound response manually integrated.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy RFW Lot: 9504G211

Instrument ID: GCL#5 Calibration Date: 04/21/95 Time: 2255

Lab File ID: EBF421 Init. Calib. Date(s): 04/13/95 04/13/95

Matrix:(soil/water) _____ Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50+	%D	
Chloromethane	#	0.630	0.578	8.3	#
Bromomethane		1.445	1.321	8.6	
Vinyl chloride	*	1.035	0.892	13.8	*
Chloroethane		0.599	0.564	5.8	
Methylene Chloride		1.587	1.593	-0.4	
Acetone		0.245	0.185	24.5	
Carbon Disulfide		2.481	2.454	1.1	
1,1-Dichloroethene	*	1.003	1.143	-14.0	*
1,1-Dichloroethane	#	2.151	2.214	-2.9	#
1,2-Dichloroethene (total)		1.310	1.330	-1.5	
Chloroform	*	2.888	3.164	-9.6	*
1,2-Dichloroethane		1.937	1.989	-2.7	
2-Butanone		0.374	0.328	12.4	
1,1,1-Trichloroethane		0.644	0.672	-4.3	
Carbon Tetrachloride		0.619	0.687	-10.9	
Vinyl acetate		1.803	1.758	2.5	
Bromodichloromethane		0.736	0.791	-7.4	
1,2-Dichloropropane	*	0.341	0.345	-1.3	*
cis-1,3-Dichloropropene		0.525	0.522	0.6	
Trichloroethene		0.498	0.491	1.5	
Dibromochloromethane		0.653	0.691	-5.8	
1,1,2-Trichloroethane		0.341	0.331	2.9	
Benzene		0.763	0.776	-1.6	
trans-1,3-Dichloropropene		0.457	0.460	-0.6	
Bromoform	#	0.502	0.520	-3.7	#
4-Methyl-2-pentanone		0.304	0.281	7.7	
2-Hexanone		0.187	0.164	12.4	
Tetrachloroethene		0.570	0.577	-1.2	
1,1,2,2-Tetrachloroethane	#	0.711	0.955	-34.3	#
Toluene	*	0.647	0.663	-2.5	*
Chlorobenzene	#	0.948	0.969	-2.2	#
Ethylbenzene	*	0.380	0.395	-4.0	*
Styrene		0.850	0.854	-0.4	
Xylene (total)		1.218	1.275	-4.7	
Acrolein		4.574	4.455	2.6	
Acrylonitrile		1.489	1.356	8.9	
Trichlorofluoromethane		3.079	2.934	4.7	

7C

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy RFW Lot: 9504G211

Instrument ID: GCL#5 Calibration Date: 04/21/95 Time: 2255

Lab File ID: EBF421 Init. Calib. Date(s): 04/13/95 04/13/95

Matrix:(soil/water) _____ Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform Max %D for CCC(*) = 25.0%

COMPOUND	$\overline{RRF}$	RRF50+	%D
Dichlorodifluoromethane	3.033	1.797	40.8
Acetonitrile	3.280	3.409	-3.9
Iodomethane	7.454	7.466	-0.2
Propionitrile (Ethyl Cyanide)	0.148	0.135	8.8
3-Chloropropene	1.067	1.070	-0.3
Methacrylonitrile	0.965	0.877	9.2
Dibromomethane	0.923	0.860	6.8
Isobutyl alcohol	0.661	0.663	-0.3
1,2-Dibromoethane	1.416	1.390	1.8
1,1,1,2-Tetrachloroethane	1.235	1.265	-2.4
1,2,3-Trichloropropane	1.337	1.363	-1.9
trans-1,4-Dichloro-2-butene	0.191	0.198	-3.7
1,2-Dibromo-3-chloropropane	0.427	0.430	-0.8
Methylmethacrylate	0.475	0.430	9.5
Ethylmethacrylate	0.790	0.757	4.2
Pentachloroethane	0.908	0.967	-6.5
Toluene-d8	0.989	1.047	-5.8
4-Bromofluorobenzene	0.766	0.828	-8.1
1,2-Dichloroethane-d4	1.607	1.735	-8.0

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\APR2195A\EBF421.D Vial: 2
Acq On : 21 Apr 95 10:55 pm Operator:
Sample : STD50++ EAB421 Inst : gcms5
Misc : GCL#5,DIL=1,5MLOFW+5ULIS,SS+2.5UL299,295 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Apr 21 22:23:07 1995
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	I	Bromochloromethane	1.000	1.000	0.0	85	0.00
2		Dichlorodifluoromethane	3.033	1.797	40.8#	47#	0.00
3	T	Chloromethane	0.630	0.578	8.3	71	0.00
4	T	Bromomethane	1.445	1.321	8.6	76	0.00
5	T	Vinyl Chloride	1.035	0.892	*13.8	72	0.00
6	T	Chloroethane	0.599	0.564	5.8	79	0.00
7		Trichlorofluoromethane	3.079	2.934	4.7	79	0.00
8		Ethyl Ether	0.632	0.675	-6.9	78	0.00
9		Acrolein	0.114	0.111	2.6	69	0.00
10		Iodomethane	3.533	3.733	-5.7	89	0.00
11		Trichlorotrifluoroethane	2.835	2.707	4.5	80	0.00
12	T	Acetone	0.245	0.185	24.4	64	0.00
13	T	Carbon Disulfide	2.481	2.453	1.1	83	0.00
14	M	1,1-Dichloroethene	1.003	1.143	*-14.0	91	0.00
	I	Methylene Chloride	1.587	1.593	-0.4	85	0.00
		3-Chloropropene	0.506	0.535	-5.8	89	0.00
17		Acetonitrile	0.410	0.426	-3.9	89	0.00
18		Acrylonitrile	0.186	0.170	8.9	76	0.00
19		Methyl-tert-Butyl Ether	0.000	0.000	0.0	0#	-13.60#
20		Vinyl Acetate	1.803	1.758	2.5	79	0.00
21	T	1,1-Dichloroethane	2.151	2.214	-2.9	84	0.00
22	T	1,2-Dichloroethene (total)	1.310	1.330	-1.5	85	0.00
23		2-Butanone	0.374	0.328	12.4	73	0.00
24		Tetrahydrofuran	0.000	0.000	0.0	0#	0.00
25		Methacrylonitrile	0.462	0.438	5.1	81	0.00
26	T	Chloroform	2.888	3.164	*-9.6	92	0.00
27	S	1,2-Dichloroethane-d4	1.607	1.735	-7.9	89	0.00
28	T	1,2-Dichloroethane	1.937	1.989	-2.7	84	0.00
29	I	1,4-Difluorobenzene	1.000	1.000	0.0	85	0.00
30		Propionitrile	0.019	0.017	9.0	73	0.00
31	T	1,1,1-Trichloroethane	0.644	0.671	-4.3	85	0.00
32	T	Carbon Tetrachloride	0.619	0.687	-10.9	92	0.00
33	T	Bromodichloromethane	0.736	0.791	-7.5	89	0.00
34		Isobutanol	0.008	0.008	-0.4	81	0.00
35		Crotononitrile	0.021	0.018	14.0	70	0.00
36	T	1,2-Dichloropropane	0.341	0.345	*-1.3	84	0.00
37		2-Nitropropane	0.046	0.232	-404.7#	431#	0.00
38	T	cis-1,3-Dichloropropene	0.525	0.522	0.6	82	0.00
	M	Trichloroethene	0.498	0.491	1.5	80	0.00
	M	Benzene	0.763	0.775	-1.6	84	0.00
		Methylmethacrylate	0.227	0.215	5.2	75	0.00

#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\APR2195A\EBF421.D Vial: 2
Acq On : 21 Apr 95 10:55 pm Operator:
Sample : STD50++ EAB421 Inst : gcms5
Misc : GCL#5,DIL=1,5MLOFW+5ULIS,SS+2.5UL299,295 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Apr 21 22:23:07 1995
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
42		Dibromomethane	0.437	0.430	1.7	77	0.00
43		Ethylmethacrylate	0.377	0.378	-0.5	84	0.00
44	T	Dibromochloromethane	0.653	0.691	-5.9	87	0.00
45	T	trans-1,3-Dichloropropene	0.457	0.460	-0.7	82	0.00
46	T	1,1,2-Trichloroethane	0.341	0.331	2.8	79	0.00
47	T	Bromoform	0.502	0.520	-3.6	83	0.00
48	I	2-Chloroethylvinylether	0.112	0.167	-49.6#	129	0.00
49	I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.00
50	T	4-Methyl-2-Pentanone	0.304	0.281	7.5	72	0.00
51	T	2-Hexanone	0.187	0.164	12.2	68	0.00
52	T	Tetrachloroethene	0.570	0.577	-1.3	81	0.00
53	T	1,1,2,2-Tetrachloroethane	0.710	0.955	-34.4#	107	0.00
54	S	Toluene-d8	0.989	1.047	-5.8	89	0.00
	M	Toluene	0.647	0.663	-2.5	85	0.00
		1,2-Dibromoethane	0.673	0.695	-3.2	84	0.00
57	M	Chlorobenzene	0.948	0.969	-2.2	84	0.00
58		1,1,1,2-Tetrachloroethane	0.585	0.632	-8.0	86	0.00
59	T	Ethylbenzene	0.380	0.395	-4.0	83	0.00
60	S	Bromofluorobenzene	0.766	0.828	-8.1	90	0.00
61		trans-1,4-Dichloro-2-butene	0.091	0.099	-8.6	84	0.00
62		1,2,3-Trichloropropane	0.636	0.681	-7.1	84	0.00
63		Pentachloroethane	0.431	0.483	-12.1	90	0.00
64		1,3-Dichlorobenzene	0.931	0.977	-4.9	84	0.00
65		1,4-Dichlorobenzene	1.023	1.075	-5.1	86	0.00
66		1,2-Dichlorobenzene	0.948	1.009	-6.4	86	0.00
67		1,2-Dibromo-3-chloropropane	0.204	0.215	-5.3	82	0.00
68	T	Styrene	0.850	0.854	-0.5	81	0.00
69	T	Xylene (total)	1.218	1.275	-4.7	85	0.00
70		bromochloromethane	1.000	1.000	0.0	109	0.00
71		Chloroprene	~~0.000~~	~~0.000~~	~~0.0~~	0#	-14.40#
			1.907	1.767	7.4%		

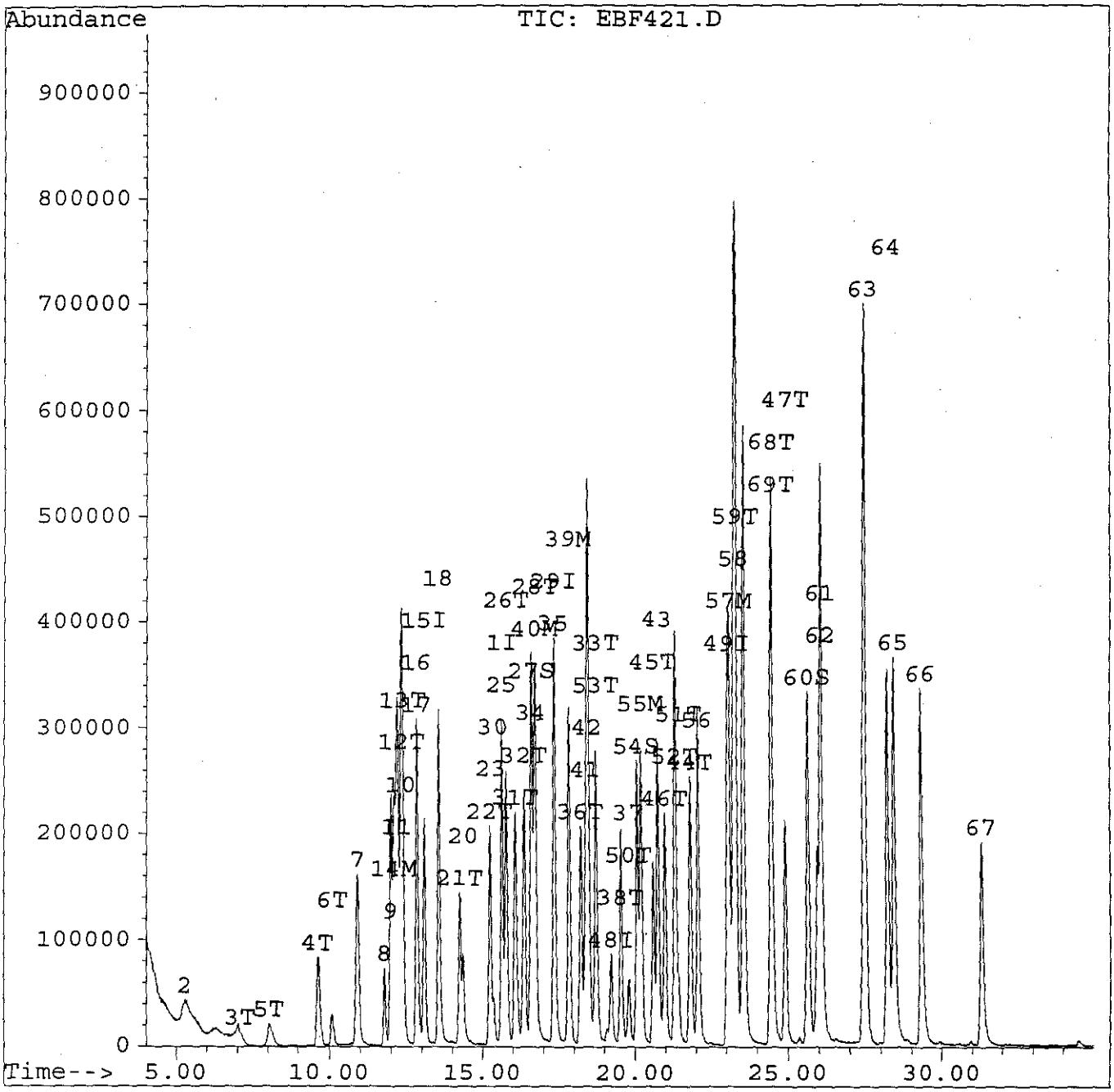
4/21/95

(#) = Out of Range SPCC's out = 0 CCC's out = 0
EBF421.D 82405.M Fri Apr 21 23:38:46 1995 Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2195A\EBF421.D Vial: 2
Acq On : 21 Apr 95 10:55 pm Operator:
Sample : STD50++ EAB421 Inst : gcms5
Misc : GCL#5,DIL=1,5MLOFW+5ULIS,SS+2.5UL299,295 Multiplr: 1.00
Quant Time: Apr 21 23:36 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Apr 21 23:37:58 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2195A\EBF421.D Vial: 2
Acq On : 21 Apr 95 10:55 pm Operator:
Sample : STD50++ EAB421 Inst : gcms5
Misc : GCL#5,DIL=1,5MLOFW+5ULIS,SS+2.5UL299,295 Multiplr: 1.00
Quant Time: Apr 21 23:36 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Apr 21 23:37:58 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	15.64	128	162802	50.00	ug/l		0.00
29) 1,4-Difluorobenzene	17.33	114	620912	50.00	ug/l		0.00
49) Chlorobenzene-d5	23.00	117	514097	50.00	ug/l		0.00
70) bromochloromethane	15.64	128	162802	0.00	ug/l		0.00
System Monitoring Compounds							%Recovery
27) 1,2-Dichloroethane-d4	16.60	65	282425	53.75	ug/l		107.50%
54) Toluene-d8	20.04	98	538055	50.46	ug/l		100.92%
60) Bromofluorobenzene	25.61	95	425746	51.70	ug/l		103.40%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	5.29	85	292503	50.15	ug/l	m	42
3) Chloromethane	7.09	50	94073	52.73	ug/l	m	40
4) Bromomethane	9.63	94	215010	53.20	ug/l	m	82
5) Vinyl Chloride	8.06	62	145183	53.13	ug/l	m	77
6) Chloroethane	10.09	64	91876	53.82	ug/l		98
7) Trichlorofluoromethane	10.89	101	477640	52.97	ug/l		98
8) Ethyl Ether	11.78	59	109918	51.13	ug/l		97
9) Acrolein	11.99	56	725296	16381.15	ug/l		100
10) Iodomethane	12.34	142	1215546	105.20	ug/l		96
11) Trichlorotrifluoroethane	12.20	101	440648	49.85	ug/l		95
12) Acetone	12.36	43	30114	46.37	ug/l		96
13) Carbon Disulfide	12.40	76	399427	54.12	ug/l		100
14) 1,1-Dichloroethene	12.10	96	186146	50.62	ug/l	#	53
15) Methylene Chloride	13.08	84	259366	50.67	ug/l		98
16) 3-Chloropropene	12.83	76	174179	107.57	ug/l	#	1
17) Acetonitrile	12.83	41	554976	417.76	ug/l	#	84
18) Acrylonitrile	13.54	53	220826	419.06	ug/l		93
20) Vinyl Acetate	14.36	43	286164	54.26	ug/l	#	80
21) 1,1-Dichloroethane	14.26	63	360412	50.05	ug/l		99
22) 1,2-Dichloroethene (total)	15.24	96	432930	99.42	ug/l	m	67
23) 2-Butanone	15.30	43	53321	51.89	ug/l	#	93
25) Methacrylonitrile	15.61	41	142695	94.51	ug/l	#	74
26) Chloroform	15.78	83	515147	50.05	ug/l		98
28) 1,2-Dichloroethane	16.72	62	323842	49.66	ug/l		101
30) Propionitrile	15.36	54	83805	417.34	ug/l	#	9
31) 1,1,1-Trichloroethane	16.08	97	416934	48.59	ug/l		9
32) Carbon Tetrachloride	16.37	117	426410	49.82	ug/l		9
33) Bromodichloromethane	18.70	83	490935	49.33	ug/l		10
34) Isobutanol	16.59	43	411828	3780.73	ug/l	#	8
35) Crotononitrile	17.32	67	89321	415.35	ug/l	#	
36) 1,2-Dichloropropane	18.21	63	214380	48.11	ug/l		10
37) 2-Nitropropane	19.78	43	144332	49.33	ug/l	#	2
38) cis-1,3-Dichloropropene	19.51	75	324140	49.99	ug/l		9

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2195A\EBF421.D Vial: 2
Acq On : 21 Apr 95 10:55 pm Operator:
Sample : STD50++ EAB421 Inst : gcms5
Misc : GCL#5,DIL=1,5MLOFW+5ULIS,SS+2.5UL299,295 Multiplr: 1.00
Quant Time: Apr 21 23:36 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Apr 21 23:37:58 1995
Response via : Single Level Calibration

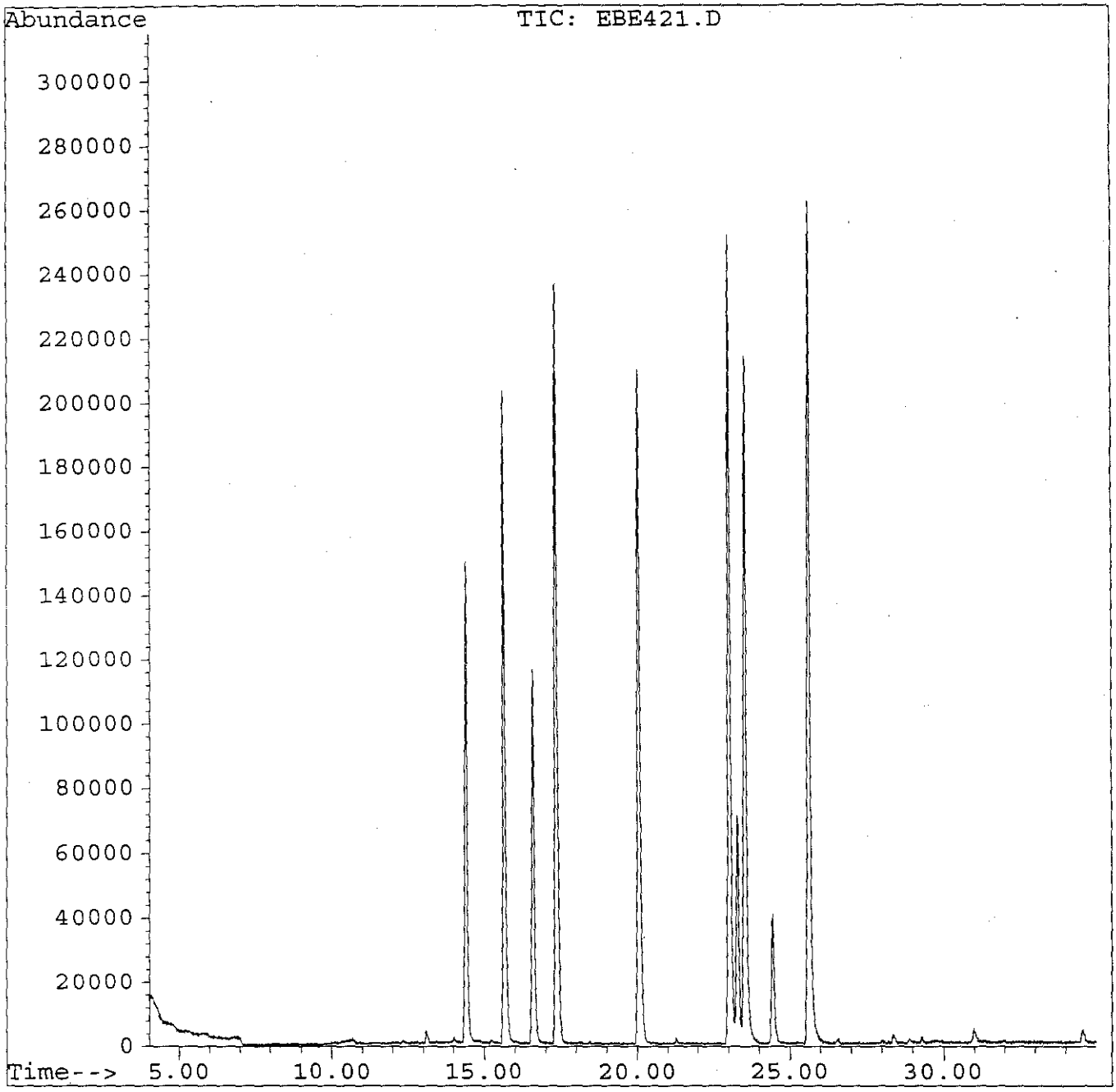
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	Trichloroethene	17.81	130	304633	27.66	ug/l	#	77
40)	Benzene	16.71	78	481503	48.44	ug/l		100
41)	Methylmethacrylate	18.36	41	267058	149.80	ug/l	#	18
42)	Dibromomethane	18.44	174	533833	93.46	ug/l		85
43)	Ethylmethacrylate	20.71	69	469957	128.90	ug/l		95
44)	Dibromochloromethane	21.78	129	429008	49.41	ug/l		99
45)	trans-1,3-Dichloropropene	20.56	75	285513	50.27	ug/l		98
46)	1,1,2-Trichloroethane	20.95	97	205612	49.62	ug/l		100
47)	Bromoform	24.89	173	323144	48.35	ug/l		99
48)	2-Chloroethylvinylether	19.20	63	103899	47.83	ug/l		85
50)	4-Methyl-2-Pentanone	19.78	43	144332	47.69	ug/l		93
51)	2-Hexanone	21.42	43	84207	42.18	ug/l		89
52)	Tetrachloroethene	21.29	164	296530	19.08	ug/l		96
53)	1,1,2,2-Tetrachloroethane	18.70	83	490935	48.55	ug/l	#	97
55)	Toluene	20.16	92	340995	47.42	ug/l		93
56)	1,2-Dibromoethane	22.03	107	714531	91.28	ug/l		98
57)	Chlorobenzene	23.06	112	498194	48.99	ug/l		69
58)	1,1,1,2-Tetrachloroethane	23.23	131	650288	94.99	ug/l		99
59)	Ethylbenzene	23.28	106	203148	49.06	ug/l	#	83
61)	trans-1,4-Dichloro-2-buten	26.05	89	101840	98.61	ug/l	#	1
62)	1,2,3-Trichloropropane	26.04	75	700556	89.92	ug/l		97
63)	Pentachloroethane	27.45	167	496973	110.07	ug/l		97
64)	1,3-Dichlorobenzene	28.19	146	502121	49.93	ug/l		99
65)	1,4-Dichlorobenzene	28.41	146	552417	51.57	ug/l		100
66)	1,2-Dichlorobenzene	29.31	146	518510	50.44	ug/l		100
67)	1,2-Dibromo-3-chloropropan	31.31	157	221204	94.47	ug/l		87
68)	Styrene	24.44	104	438867	49.58	ug/l		74
69)	Xylene (total)	24.41	91	655368	49.52	ug/l	#	1

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2195A\EBE421.D Vial: 3
Acq On : 21 Apr 95 8:50 pm Operator:
Sample : STD50CH EAB421 Inst : gcms5
Misc : GCL#5,DIL=1,5MLOFW+5ULIS,SS+2.5UL301B Multiplr: 1.00
Quant Time: Apr 21 21:46 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Apr 21 21:47:44 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2195A\EBE421.D Vial: 3
Acq On : 21 Apr 95 8:50 pm Operator:
Sample : STD50CH EAB421 Inst : gcms5
Misc : GCL#5,DIL=1,5MLOFW+5ULIS,SS+2.5UL301B Multiplr: 1.00
Quant Time: Apr 21 21:46 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Apr 21 21:47:44 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	0.00	128	0	50.00	ug/l	-15.64
29) 1,4-Difluorobenzene	0.00	114	0	50.00	ug/l	-17.34
49) Chlorobenzene-d5	0.00	117	0	50.00	ug/l	-23.00
70) bromochloromethane	15.64	128	145700	0.00	ug/l	0.00
System Monitoring Compounds						%Recovery
27) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	0.00%
54) Toluene-d8	0.00	98	0	0.00	ug/l	0.00%
60) Bromofluorobenzene	0.00	95	0	0.00	ug/l	0.00%

Target Compounds Qvalue

14.40 257401 50.00

Chloroprene 14.40

(#) = qualifier out of range (m) = manual integration
EBE421.D 82405.M Fri Apr 21 21:48:15 1995 Page 1

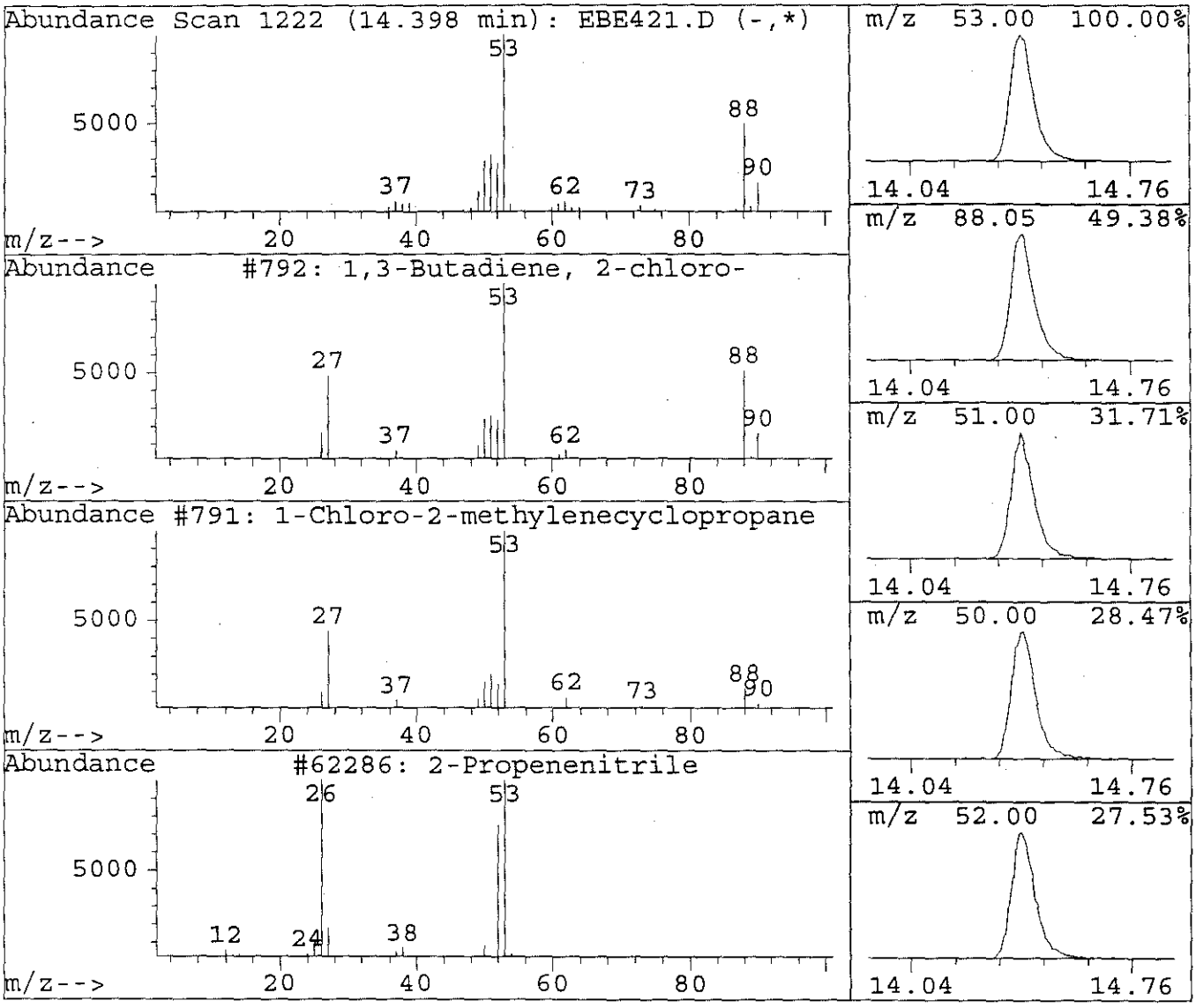
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\APR2195A\EBE421.D Vial: 3
Acq On : 21 Apr 95 8:50 pm Operator:
Sample : STD50CH EAB421 Inst : gcms5
Misc : GCL#5,DIL=1,5MLOFW+5ULIS,SS+2.5UL301B Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Library : D:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
14.40	37.07 ug/l	804041	Bromochloromethane	15.64

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
①	1,3-Butadiene, 2-chloro-	792	000126-99-8	97
2	1-Chloro-2-methylenecyclopropane	791	000000-00-0	42
3	2-Propenenitrile	62286	000107-13-1	9
4	Propanedinitrile, methyl-	419	003696-36-4	9
5	2-Propynoic acid, methyl ester	536	000922-67-8	4



7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy RFW Lot: 9504G211

Instrument ID: GCL#6 Calibration Date: 04/19/95 Time: 2110

Lab File ID: F0C419 Init. Calib. Date(s): 03/29/95 03/29/95

Matrix:(soil/water) _____ Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50+	%D	
Chloromethane	#	0.758	0.487	35.7	#
Bromomethane		1.549	1.350	12.9	
Vinyl chloride	*	0.930	0.748	19.6	*
Chloroethane		0.542	0.499	8.0	
Methylene Chloride		1.580	1.836	-16.2	
Acetone		0.235	0.233	1.0	
Carbon Disulfide		2.168	3.229	-48.9	
1,1-Dichloroethene	*	1.015	1.245	-22.7	*
1,1-Dichloroethane	#	1.887	2.175	-15.2	#
1,2-Dichloroethene (total)		1.272	1.502	-18.1	
Chloroform	*	2.791	3.186	-14.2	*
1,2-Dichloroethane		1.464	1.515	-3.5	
2-Butanone		0.507	0.298	41.3	
1,1,1-Trichloroethane		0.611	0.617	-0.9	
Carbon Tetrachloride		0.573	0.584	-1.9	
Vinyl acetate		1.774	1.741	1.9	
Bromodichloromethane		0.861	0.853	0.9	
1,2-Dichloropropane	*	0.321	0.328	-2.0	*
cis-1,3-Dichloropropene		0.558	0.534	4.2	
Trichloroethene		0.479	0.482	-0.7	
Dibromochloromethane		0.650	0.680	-4.7	
1,1,2-Trichloroethane		0.347	0.338	2.7	
Benzene		0.808	0.836	-3.5	
trans-1,3-Dichloropropene		0.467	0.429	8.1	
Bromoform	#	0.421	0.505	-19.9	#
4-Methyl-2-pentanone		0.369	0.204	44.6	
2-Hexanone		0.242	0.141	41.8	
Tetrachloroethene		0.761	0.559	26.6	
1,1,2,2-Tetrachloroethane	#	0.616	0.627	-1.7	#
Toluene	*	0.766	0.693	9.5	*
Chlorobenzene	#	0.932	0.925	0.7	#
Ethylbenzene	*	0.372	0.374	-0.6	*
Styrene		0.767	0.834	-8.7	
Xylene (total)		0.957	1.017	-6.3	
Acrolein		6.427	4.163	35.2	
Acrylonitrile		1.888	1.334	29.4	
Trichlorofluoromethane		2.716	2.663	2.0	

7D
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy RFW Lot: 9504G211

Instrument ID: GCL#6 Calibration Date: 04/19/95 Time: 2110

Lab File ID: F0C419 Init. Calib. Date(s): 03/29/95 03/29/95

Matrix:(soil/water) _____ Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform Max %D for CCC(*) = 25.0%

COMPOUND	$\overline{RRF}$	RRF50+	%D
Dichlorodifluoromethane	2.060	1.024	50.3
Acetonitrile	2.939	3.079	-4.8
Iodomethane	6.778	8.301	-22.5
Propionitrile (Ethyl Cyanide)	0.212	0.112	47.1
3-Chloropropene	1.031	1.182	-14.6
Methacrylonitrile	1.000	0.681	31.9
Dibromomethane	1.057	0.889	15.9
Isobutyl alcohol	0.748	0.423	43.5
1,2-Dibromoethane	1.974	1.559	21.0
1,1,1,2-Tetrachloroethane	1.040	1.123	-8.0
1,2,3-Trichloropropane	1.273	1.108	13.0
trans-1,4-Dichloro-2-butene	0.184	0.168	8.7
1,2-Dibromo-3-chloropropane	0.193	0.205	-6.0
Methylmethacrylate	0.735	0.533	27.5
Ethylmethacrylate	0.861	0.689	20.0
Pentachloroethane	0.434	0.682	-57.2
Toluene-d8	1.244	1.016	18.3
4-Bromofluorobenzene	0.769	0.840	-9.2
1,2-Dichloroethane-d4	1.347	1.214	9.9

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\APR1995A\FOC419.D Vial: 14
Acq On : 19 Apr 95 9:10 pm Operator:
Sample : STD50++ FNB419 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS+2.5UL295,291 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 19 22:10:43 1995
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	I	Bromochloromethane	1.000	1.000	0.0	87	0.00
2		Dichlorodifluoromethane	2.060	1.024	50.3#	42#	0.00
3	T	Chloromethane	0.758	0.487	35.7#	55	0.00
4	T	Bromomethane	1.549	1.350	12.8	75	0.00
5	T	Vinyl Chloride	0.930	0.748	19.6	69	0.00
6	T	Chloroethane	0.542	0.499	7.9	80	0.00
7		Trichlorofluoromethane	2.716	2.663	2.0	87	0.00
8		Acrolein	0.161	0.104	35.2#	50	0.00
9		Iodomethane	3.175	4.150	-30.7#	96	0.00
10	T	Acetone	0.235	0.233	0.8	54	0.00
11	T	Carbon Disulfide	2.168	3.229	-48.9#	104	0.00
12	M	1,1-Dichloroethene	1.015	1.245	22.7	103	0.00
13	I	Methylene Chloride	1.580	1.836	-16.2	96	0.00
		3-Chloropropene	0.490	0.591	-20.5	97	0.00
		Acetonitrile	0.367	0.385	-4.8	87	0.00
16		Acrylonitrile	0.236	0.167	29.4#	59	0.00
17		Vinyl Acetate	1.774	1.741	1.8	89	0.00
18	T	1,1-Dichloroethane	1.887	2.175	-15.2	102	0.00
19	T	1,2-Dichloroethene (total)	1.273	1.502	-18.0	98	0.00
20		Methacrylonitrile	0.485	0.340	29.8#	58	0.00
21		2-Butanone	0.507	0.297	41.3#	47#	0.00
22	T	Chloroform	2.791	3.186	14.1	96	0.00
23	S	1,2-Dichloroethane-d4	1.347	1.214	9.9	75	0.00
24	T	1,2-Dichloroethane	1.464	1.515	-3.4	87	0.00
25	I	1,4-Difluorobenzene	1.000	1.000	0.0	101	0.00
26		Propionitrile	0.027	0.014	47.2#	49#	0.00
27	T	1,1,1-Trichloroethane	0.611	0.617	-0.8	97	0.00
28	T	Carbon Tetrachloride	0.573	0.584	-1.8	99	0.00
29	T	Bromodichloromethane	0.861	0.853	0.9	93	0.00
30		Isobutanol	0.009	0.005	43.5#	35#	0.00
31		Crotononitrile	0.030	0.018	40.7#	56	0.00
32	T	1,2-Dichloropropane	0.321	0.327	2.1	97	0.00
33	T	cis-1,3-Dichloropropene	0.558	0.534	4.3	91	0.00
34	M	Trichloroethene	0.480	0.482	-0.6	100	0.00
35	M	Benzene	0.808	0.836	-3.5	101	0.00
36		Methylmethacrylate	0.356	0.266	25.2#	69	0.00
37		Dibromomethane	0.508	0.445	12.4	84	0.00
		Ethylmethacrylate	0.414	0.344	16.9	73	0.00
	T	Dibromochloromethane	0.651	0.680	-4.6	89	0.00
40	T	trans-1,3-Dichloropropene	0.467	0.429	8.1	86	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\APR1995A\FOC419.D Vial: 14
Acq On : 19 Apr 95 9:10 pm Operator:
Sample : STD50++ FNB419 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS+2.5UL295,291 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 19 22:10:43 1995
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

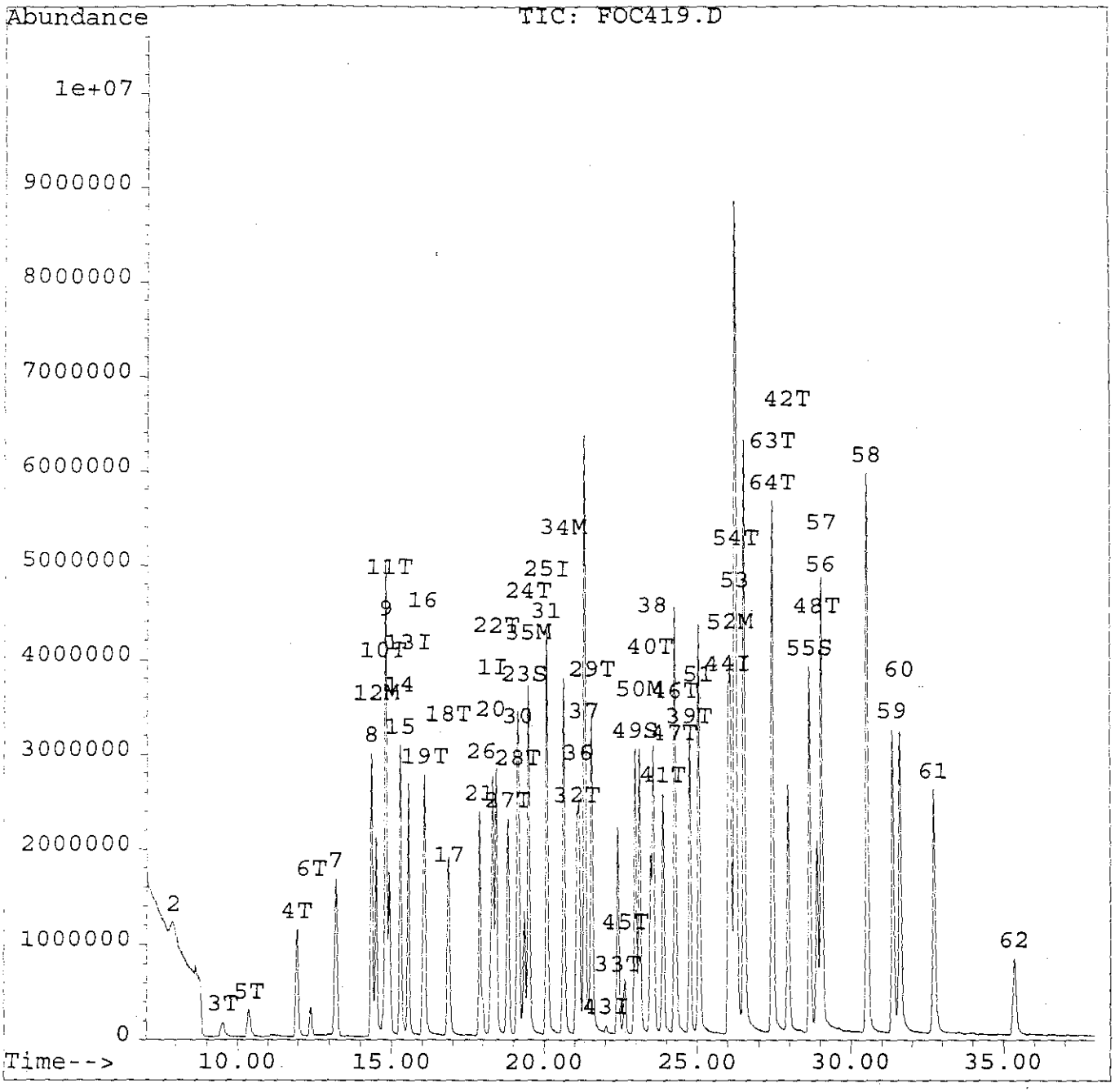
		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min
41	T	1,1,2-Trichloroethane	0.347	0.338	2.7	87	0.00
42	T	Bromoform	0.421	0.505	-20.0	85	0.00
43	I	2-Chloroethylvinylether	0.196	0.013	93.3#	6#	0.00
44	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
45	T	4-Methyl-2-Pentanone	0.369	0.204	44.5#	51	0.00
46	T	2-Hexanone	0.242	0.141	41.7#	51	0.00
47	T	Tetrachloroethene	0.761	0.559	26.5#	66	0.00
48	T	1,1,2,2-Tetrachloroethane	0.616	0.627	-1.8	77	0.00
49	S	Toluene-d8	1.244	1.016	18.3	89	0.00
50	M	Toluene	0.767	0.693	9.6	96	0.00
51		1,2-Dibromoethane	0.951	0.779	18.0	83	0.00
52	M	Chlorobenzene	0.932	0.925	0.8	97	0.00
		1,1,1,2-Tetrachloroethane	0.490	0.561	-14.5	101	0.00
	T	Ethylbenzene	0.372	0.374	-0.5	98	0.00
55	S	Bromofluorobenzene	0.769	0.840	-9.1	91	0.00
56		trans-1,4-Dichloro-2-butene	0.090	0.084	6.9	66	0.00
57		1,2,3-Trichloropropane	0.608	0.554	8.9	70	0.00
58		Pentachloroethane	0.196	0.341	-74.2#	182#	0.00
59		1,3-Dichlorobenzene	0.552	0.831	-50.5#	111	0.00
60		1,4-Dichlorobenzene	0.597	0.841	-41.0#	102	0.00
61		1,2-Dichlorobenzene	0.448	0.753	-67.9#	123	0.00
62		1,2-Dibromo-3-chloropropane	0.089	0.102	-15.5	89	0.00
63	T	Styrene	0.767	0.834	-8.7	96	0.00
64	T	Xylene (total)	0.957	1.017	-6.3	94	0.00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR1995A\FOC419.D Vial: 14
Acq On : 19 Apr 95 9:10 pm Operator:
Sample : STD50++ FNB419 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS+2.5UL295,291 Multiplr: 1.00
Quant Time: Apr 19 22:08 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 19 22:10:43 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR1995A\FOC419.D Vial: 14
Acq On : 19 Apr 95 9:10 pm Operator:
Sample : STD50++ FNB419 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS+2.5UL295,291 Multiplr: 1.00
Quant Time: Apr 19 22:08 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 19 22:10:43 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	18.32	128	1685788	50.00	ug/l		0.00
25) 1,4-Difluorobenzene	20.09	114	6827130	50.00	ug/l		0.00
44) Chlorobenzene-d5	26.02	117	5487306	50.00	ug/l		0.00
System Monitoring Compounds							%Recovery
23) 1,2-Dichloroethane-d4	19.35	65	2045754	50.22	ug/l		100.44
49) Toluene-d8	22.96	98	5575709	49.51	ug/l		99.02
55) Bromofluorobenzene	28.65	95	4607081	50.19	ug/l		100.38
Target Compounds							Qvalue
2) Dichlorodifluoromethane	7.91	85	1726669	46.56	ug/l	m	70
3) Chloromethane	9.52	50	821377	56.49	ug/l		71
4) Bromomethane	11.96	94	2275349	53.73	ug/l		97
5) Vinyl Chloride	10.37	62	1261128	52.36	ug/l		71
6) Chloroethane	12.42	64	840970	54.56	ug/l		98
7) Trichlorofluoromethane	13.20	101	4488835	59.60	ug/l		99
8) Acrolein	14.36	56	7017260	1413.13	ug/l		93
9) Iodomethane	14.82	142	13992874	117.27	ug/l		99
10) Acetone	14.72	43	392307	32.00	ug/l		93
11) Carbon Disulfide	14.93	76	5442958	54.79	ug/l	m	100
12) 1,1-Dichloroethene	14.51	96	2099075	56.37	ug/l		95
13) Methylene Chloride	15.55	84	3095360	55.29	ug/l		90
14) 3-Chloropropene	15.30	76	1991975	43.11	ug/l	m	1
15) Acetonitrile	15.30	41	5190680	432.98	ug/l	#	83
16) Acrylonitrile	16.02	53	2248065	310.11	ug/l		93
17) Vinyl Acetate	16.89	43	2934911	41.35	ug/l	#	92
18) 1,1-Dichloroethane	16.85	63	3665758	54.40	ug/l		99
19) 1,2-Dichloroethene (total)	16.08	96	5063305	109.28	ug/l	m	9
20) Methacrylonitrile	18.25	41	1147415	72.25	ug/l	#	8
21) 2-Butanone	17.88	43	501507	464.84	ug/l	m	7
22) Chloroform	18.43	83	5370898	54.27	ug/l		9
24) 1,2-Dichloroethane	19.48	62	2553512	50.56	ug/l		9
26) Propionitrile	17.98	54	765087	249.87	ug/l	#	9
27) 1,1,1-Trichloroethane	18.81	97	4209029	50.37	ug/l		10
28) Carbon Tetrachloride	19.13	117	3985640	51.12	ug/l		9
29) Bromodichloromethane	21.56	83	5824779	47.96	ug/l		9
30) Isobutanol	19.17	43	2884204	1908.63	ug/l		9
31) Crotononitrile	20.08	67	979075	262.76	ug/l	m	7
32) 1,2-Dichloropropane	21.06	63	2235774	49.45	ug/l		10
33) cis-1,3-Dichloropropene	22.40	75	3647545	47.35	ug/l		9
34) Trichloroethene	20.64	130	3292841	51.00	ug/l		9
35) Benzene	19.48	78	5709088	50.17	ug/l		10
36) Methylmethacrylate	21.13	41	3636073	77.26	ug/l		

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR1995A\FOC419.D Vial: 14
Acq On : 19 Apr 95 9:10 pm Operator:
Sample : STD50++ FNB419 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS+2.5UL295,291 Multiplr: 1.00
Quant Time: Apr 19 22:08 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 19 22:10:43 1995
Response via : Single Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37)	Dibromomethane	21.31	174	6072178	92.64	ug/l		84
38)	Ethylmethacrylate	23.55	69	4703400	77.52	ug/l		87
39)	Dibromochloromethane	24.76	129	4645139	44.62	ug/l		99
40)	trans-1,3-Dichloropropene	23.47	75	2928887	44.56	ug/l		97
41)	1,1,2-Trichloroethane	23.87	97	2304824	42.75	ug/l		100
42)	Bromoform	27.94	173	3445336	40.23	ug/l		100
43)	2-Chloroethylvinylether	22.03	63	88981	3.16	ug/l	#	66
45)	4-Methyl-2-Pentanone	22.64	43	1121863	27.88	ug/l		98
46)	2-Hexanone	24.31	43	772919	28.00	ug/l		94
47)	Tetrachloroethene	24.27	164	3067033	51.03	ug/l		99
48)	1,1,2,2-Tetrachloroethane	28.90	83	3438566	40.24	ug/l		99
50)	Toluene	23.11	92	3803486	49.96	ug/l		92
51)	1,2-Dibromoethane	25.05	107	8552381	87.72	ug/l		96
52)	Chlorobenzene	26.09	112	5076465	49.55	ug/l		99
53)	1,1,1,2-Tetrachloroethane	26.23	131	6160887	108.01	ug/l		95
54)	Ethylbenzene	26.28	106	2054244	50.14	ug/l	#	84
56)	trans-1,4-Dichloro-2-buten	29.03	89	922069	71.28	ug/l	#	39
57)	1,2,3-Trichloropropane	29.04	75	6079522	78.66	ug/l		98
58)	Pentachloroethane	30.52	167	3742874	128.02	ug/l		86
59)	1,3-Dichlorobenzene	31.36	146	4559077	52.49	ug/l		99
60)	1,4-Dichlorobenzene	31.60	146	4616837	51.56	ug/l		98
61)	1,2-Dichlorobenzene	32.71	146	4130987	56.72	ug/l		98
62)	1,2-Dibromo-3-chloropropan	35.35	157	1122402	103.79	ug/l	#	63
63)	Styrene	27.46	104	4577033	49.38	ug/l		96
64)	Xylene (total)	27.44	91	5581021	51.50	ug/l		98

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

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy RFW Lot: 9504G211

Instrument ID: GCL#6 Calibration Date: 04/23/95 Time: 1846

Lab File ID: F0B423 Init. Calib. Date(s): 03/29/95 03/29/95

Matrix:(soil/water) _____ Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50+	%D	
Chloromethane	#	0.758	0.882	-16.4	#
Bromomethane		1.549	1.424	8.1	
Vinyl chloride	*	0.930	1.013	-8.9	*
Chloroethane		0.542	0.652	-20.3	
Methylene Chloride		1.580	1.536	2.8	
Acetone		0.235	0.394	-67.7	
Carbon Disulfide		2.168	2.817	-29.9	
1,1-Dichloroethene	*	1.015	0.969	4.5	*
1,1-Dichloroethane	#	1.887	2.355	-24.8	#
1,2-Dichloroethene (total)		1.272	1.277	-0.4	
Chloroform	*	2.791	3.076	-10.2	*
1,2-Dichloroethane		1.464	1.654	-13.0	
2-Butanone		0.507	0.610	-20.4	
1,1,1-Trichloroethane		0.611	0.611	-0.1	
Carbon Tetrachloride		0.573	0.619	-8.0	
Vinyl acetate		1.774	2.700	-52.2	
Bromodichloromethane		0.861	0.924	-7.3	
1,2-Dichloropropane	*	0.321	0.397	-23.6	*
cis-1,3-Dichloropropene		0.558	0.624	-11.7	
Trichloroethene		0.479	0.493	-2.8	
Dibromochloromethane		0.650	0.793	-22.0	
1,1,2-Trichloroethane		0.347	0.338	2.5	
Benzene		0.808	0.870	-7.6	
trans-1,3-Dichloropropene		0.467	0.517	-10.6	
Bromoform	#	0.421	0.581	-38.0	#
4-Methyl-2-pentanone		0.369	0.475	-28.7	
2-Hexanone		0.242	0.330	-36.2	
Tetrachloroethene		0.761	0.537	29.5	
1,1,2,2-Tetrachloroethane	#	0.616	0.743	-20.6	#
Toluene	*	0.766	0.684	10.7	*
Chlorobenzene	#	0.932	0.905	3.0	#
Ethylbenzene	*	0.372	0.364	2.1	*
Styrene		0.767	0.798	-4.0	
Xylene (total)		0.957	1.097	-14.6	
Acrolein		6.427	5.876	8.6	
Acrylonitrile		1.888	2.018	-6.9	
Trichlorofluoromethane		2.716	2.808	-3.4	

7C

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy RFW Lot: 9504G211

Instrument ID: GCL#6 Calibration Date: 04/23/95 Time: 1846

Lab File ID: FOB423 Init. Calib. Date(s): 03/29/95 03/29/95

Matrix:(soil/water) _____ Level:(low/med) LOW Column:(pack/cap) CAP

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform Max %D for CCC(*) = 25.0%

COMPOUND	$\overline{RRF}$	RRF50+	%D
Dichlorodifluoromethane	2.060	1.412	31.5
Acetonitrile	2.939	4.771	-62.3
Iodomethane	6.778	8.998	-32.8
Propionitrile (Ethyl Cyanide)	0.212	0.199	6.2
3-Chloropropene	1.031	1.200	-16.4
Methacrylonitrile	1.000	1.364	-36.4
Dibromomethane	1.057	1.031	2.5
Isobutyl alcohol	0.748	1.187	-58.7
1,2-Dibromoethane	1.974	1.774	10.1
1,1,1,2-Tetrachloroethane	1.040	1.424	-36.9
1,2,3-Trichloropropane	1.273	1.739	-36.6
trans-1,4-Dichloro-2-butene	0.184	0.229	-24.7
1,2-Dibromo-3-chloropropane	0.193	0.230	-19.2
Methylmethacrylate	0.735	1.041	-41.6
Ethylmethacrylate	0.861	1.093	-27.0
Pentachloroethane	0.434	0.819	-88.8
Toluene-d8	1.244	1.011	18.7
4-Bromofluorobenzene	0.769	0.868	-12.8
1,2-Dichloroethane-d4	1.347	1.408	-4.5

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\APR2395\FOB423.D Vial: 3
Acq On : 23 Apr 95 6:46 pm Operator:
Sample : STD50++ FNA423 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS+2.5UL299,295 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Apr 23 18:28:37 1995
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	I	Bromochloromethane	1.000	1.000	0.0	90	0.00
2		Dichlorodifluoromethane	2.060	1.412	31.5#	60	0.00
3	T	Chloromethane	0.758	0.882✓	-16.4	103	0.00
4	T	Bromomethane	1.549	1.424	8.1	82	0.00
5	T	Vinyl Chloride	0.930	1.013	-8.9✓	96	0.00
6	T	Chloroethane	0.542	0.652	-20.3	108	0.00
7		Trichlorofluoromethane	2.716	2.808	-3.4	95	0.00
8		Acrolein	0.161	0.147	8.6	74	0.00
9		Iodomethane	3.175	4.499	-41.7#	108	0.00
10	T	Acetone	0.235	0.394	-68.0#	95	0.00
11	T	Carbon Disulfide	2.168	2.817	-29.9#	94	0.00
12	M	1,1-Dichloroethene	1.015	0.969	4.5✓	83	0.00
13	I	Methylene Chloride	1.580	1.536	2.8	83	0.00
		3-Chloropropene	0.490	0.600	-22.4	102	0.00
		Acetonitrile	0.367	0.596	-62.4#	139	0.00
16		Acrylonitrile	0.236	0.252	-6.9	93	0.00
17		Vinyl Acetate	1.774	2.700	-52.2#	143	0.00
18	T	1,1-Dichloroethane	1.887	2.355 ✓	-24.8✓	114	0.00
19	T	1,2-Dichloroethene (total)	1.273	1.277	-0.4	86	0.00
20		Methacrylonitrile	0.485	0.682	-40.7#	121	0.00
21		2-Butanone	0.507	0.610	-20.4	100	0.00
22	T	Chloroform	2.791	3.076	-10.2✓	96	0.00
23	S	1,2-Dichloroethane-d4	1.347	1.408	-4.5	90	0.00
24	T	1,2-Dichloroethane	1.464	1.654	-12.9	99	0.00
25	I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
26		Propionitrile	0.027	0.025	6.3	82	0.00
27	T	1,1,1-Trichloroethane	0.611	0.611	0.0	90	0.00
28	T	Carbon Tetrachloride	0.573	0.619	-7.9	99	0.00
29	T	Bromodichloromethane	0.861	0.924	-7.3	95	0.00
30		Isobutanol	0.009	0.015	-58.7#	93	0.00
31		Crotononitrile	0.030	0.027	9.8	79	0.00
32	T	1,2-Dichloropropane	0.321	0.397	-23.7✓	110	0.00
33	T	cis-1,3-Dichloropropene	0.558	0.624	-11.7	100	0.00
34	M	Trichloroethene	0.480	0.493	-2.7	96	0.00
35	M	Benzene	0.808	0.870	-7.6	99	0.00
36		Methylmethacrylate	0.356	0.520	-46.3#	126	0.00
37		Dibromomethane	0.508	0.515	-1.5	91	0.00
		Ethylmethacrylate	0.414	0.547	-31.9#	108	0.00
	T	Dibromochloromethane	0.651	0.793	-21.9	97	0.00
40	T	trans-1,3-Dichloropropene	0.467	0.516	-10.6	97	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\APR2395\FOB423.D Vial: 3
Acq On : 23 Apr 95 6:46 pm Operator:
Sample : STD50++ FNA423 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS+2.5UL299,295 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Apr 23 18:28:37 1995
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

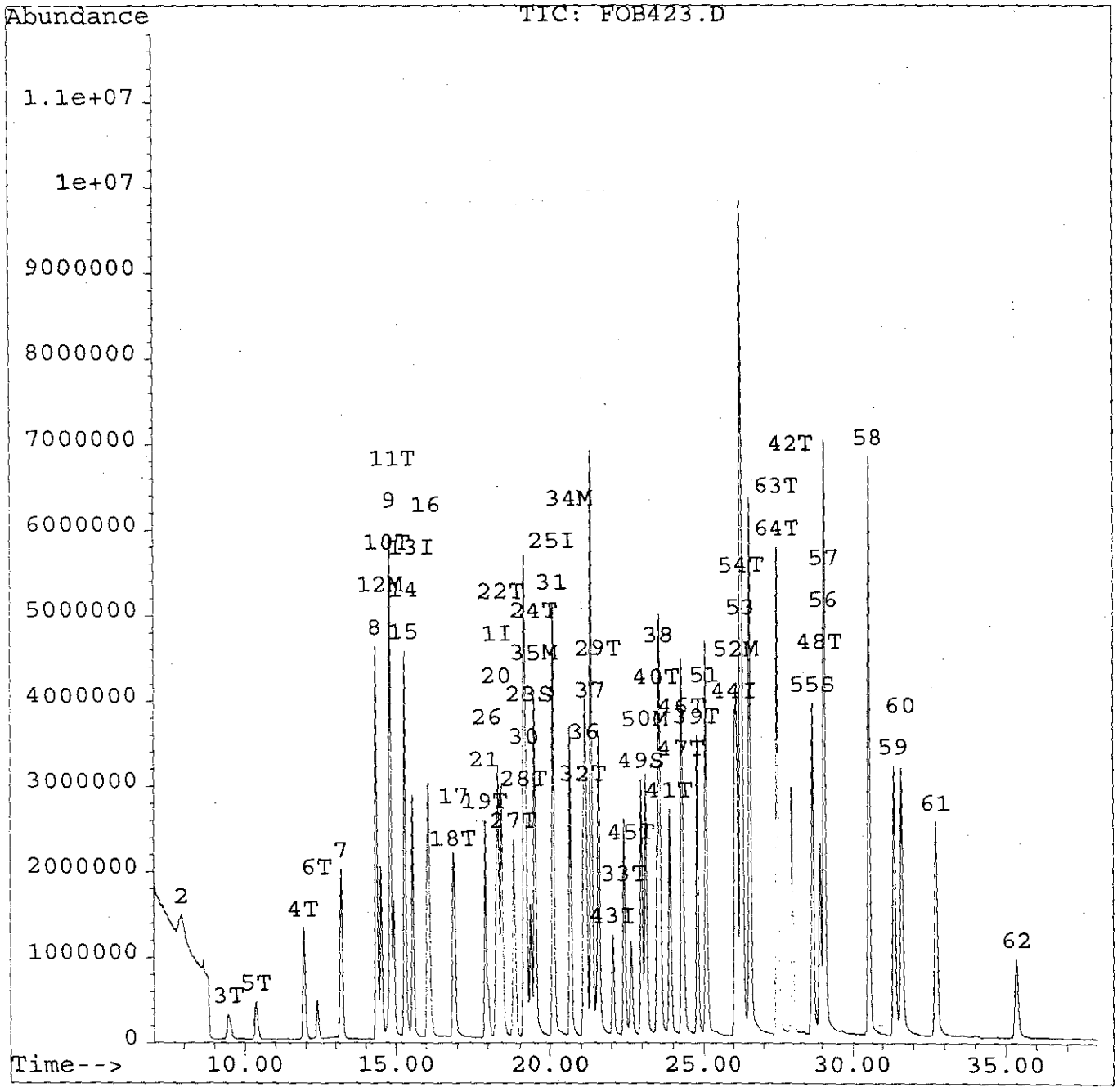
		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
41	T	1,1,2-Trichloroethane	0.347	0.338	2.5	82	0.00
42	T	Bromoform	0.421	0.581	-38.1#	92	0.00
43	I	2-Chloroethylvinylether	0.196	0.202	-3.1	90	0.00
44	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
45	T	4-Methyl-2-Pentanone	0.369	0.475	-28.8#	108	0.00
46	T	2-Hexanone	0.242	0.330	-36.5#	107	0.00
47	T	Tetrachloroethene	0.761	0.536	29.5#	57	0.00
48	T	1,1,2,2-Tetrachloroethane	0.616	0.743	-20.7	83	0.00
49	S	Toluene-d8	1.244	1.011	18.7	80	0.00
50	M	Toluene	0.767	0.684	10.7	86	0.00
51		1,2-Dibromoethane	0.951	0.887	6.7	86	0.00
52	M	Chlorobenzene	0.932	0.905	3.0	86	0.00
[illegible]		1,1,1,2-Tetrachloroethane	0.490	0.712	-45.2#	116	0.00
	T	Ethylbenzene	0.372	0.364	2.2	87	0.00
55	S	Bromofluorobenzene	0.769	0.868	-12.8	85	0.00
56		trans-1,4-Dichloro-2-butene	0.090	0.115	-27.1#	82	0.00
57		1,2,3-Trichloropropane	0.608	0.870	-43.0#	99	0.00
58		Pentachloroethane	0.196	0.410	-109.2#	199#	0.00
59		1,3-Dichlorobenzene	0.552	0.861	-56.0#	104	0.00
60		1,4-Dichlorobenzene	0.597	0.927	-55.4#	102	0.00
61		1,2-Dichlorobenzene	0.448	0.798	-78.0#	118	0.00
62		1,2-Dibromo-3-chloropropane	0.089	0.115	-30.0#	91	0.00
63	T	Styrene	0.767	0.798	-4.0	83	0.00
64	T	Xylene (total)	0.957	1.097	-14.6	92	0.00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2395\FOB423.D Vial: 3
Acq On : 23 Apr 95 6:46 pm Operator:
Sample : STD50++ FNA423 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS+2.5UL299,295 Multiplr: 1.00
Quant Time: Apr 23 19:54 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Apr 23 19:56:50 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2395\FOB423.D Vial: 3
Acq On : 23 Apr 95 6:46 pm Operator:
Sample : STD50++ FNA423 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS+2.5UL299,295 Multiplr: 1.00
Quant Time: Apr 23 19:54 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Apr 23 19:56:50 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	18.36	128	1743272	50.00	ug/l		0.02
25) 1,4-Difluorobenzene	20.12	114	6406829	50.00	ug/l		0.02
44) Chlorobenzene-d5	26.05	117	4978986	50.00	ug/l		0.02
System Monitoring Compounds							%Recovery
23) 1,2-Dichloroethane-d4	19.38	65	2454871	50.90	ug/l		101.79%
49) Toluene-d8	23.00	98	5035259	50.19	ug/l		100.37%
55) Bromofluorobenzene	28.67	95	4320067	49.43	ug/l		98.86%
Target Compounds							Qvalue
2) Dichlorodifluoromethane	7.94	85	2461332	52.04	ug/l	m	62
3) Chloromethane	9.49	50	1537807	54.69	ug/l	m	99
4) Bromomethane	11.95	94	2481850	51.84	ug/l		98
5) Vinyl Chloride	10.35	62	1765917	52.48	ug/l		98
6) Chloroethane	12.39	64	1136869	52.28	ug/l		98
7) Trichlorofluoromethane	13.19	101	4895798	52.44	ug/l		100
8) Acrolein	14.35	56	10242551	2721.15	ug/l		9[illegible]
9) Iodomethane	14.82	142	15685634	96.74	ug/l		99
10) Acetone	14.75	43	686889	71.24	ug/l	m	94
11) Carbon Disulfide	14.95	76	4910905	45.11	ug/l		100
12) 1,1-Dichloroethene	14.52	96	1689094	44.28	ug/l	#	82
13) Methylene Chloride	15.56	84	2677219	43.94	ug/l	#	85
14) 3-Chloropropene	15.31	76	2091300	94.02	ug/l	#	76
15) Acetonitrile	15.31	41	8317800	389.58	ug/l	#	82
16) Acrylonitrile	16.04	53	3518638	558.97	ug/l		96
17) Vinyl Acetate	16.92	43	4706701	55.29	ug/l		94
18) 1,1-Dichloroethane	16.88	63	4106142	45.11	ug/l		99
19) 1,2-Dichloroethene (total)	17.92	96	4453061	92.34	ug/l	m	81
20) Methacrylonitrile	18.30	41	2378342	141.85	ug/l		96
21) 2-Butanone	17.93	43	1063713	81.31	ug/l	m	1
22) Chloroform	18.47	83	5362224	44.77	ug/l		100
24) 1,2-Dichloroethane	19.52	62	2883065	46.29	ug/l		99
26) Propionitrile	18.02	54	1274017	636.70	ug/l	m	98
27) 1,1,1-Trichloroethane	18.84	97	3916271	47.08	ug/l	m	99
28) Carbon Tetrachloride	19.17	117	3963967	46.85	ug/l	m	97
29) Bromodichloromethane	21.59	83	5918275	47.05	ug/l	m	98
30) Isobutanol	19.21	43	7606653	9379.31	ug/l	m	94
31) Crotononitrile	20.11	67	1396217	622.08	ug/l	m	93
32) 1,2-Dichloropropane	21.10	63	2542156	46.87	ug/l	m	99
33) cis-1,3-Dichloropropene	22.43	75	3994799	47.91	ug/l	m	98
34) Trichloroethene	20.68	130	3156056	47.25	ug/l	m	9[illegible]
35) Benzene	19.52	78	5571198	46.06	ug/l	m	10[illegible]
36) Methylmethacrylate	21.16	41	6668036	129.72	ug/l	m	86

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2395\FOB423.D Vial: 3
Acq On : 23 Apr 95 6:46 pm Operator:
Sample : STD50++ FNA423 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS+2.5UL299,295 Multiplr: 1.00
Quant Time: Apr 23 19:54 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Apr 23 19:56:50 1995
Response via : Single Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
37) Dibromomethane	21.34	174	6602042	114.53	ug/l	m	83
38) Ethylmethacrylate	23.59	69	7004066	140.11	ug/l	m	94
39) Dibromochloromethane	24.79	129	5078750	50.00	ug/l	m	96
40) trans-1,3-Dichloropropene	23.50	75	3309100	49.76	ug/l	m	99
41) 1,1,2-Trichloroethane	23.91	97	2167842	51.24	ug/l	m	99
42) Bromoform	27.97	173	3721354	54.81	ug/l	m	100
43) 2-Chloroethylvinylether	22.06	63	1293659	55.71	ug/l	m	92
45) 4-Methyl-2-Pentanone	22.66	43	2363800	78.67	ug/l		92
46) 2-Hexanone	24.34	43	1641344	87.40	ug/l		93
47) Tetrachloroethene	24.30	164	2671020	46.01	ug/l		98
48) 1,1,2,2-Tetrachloroethane	28.93	83	3698098	56.72	ug/l		98
50) Toluene	23.14	92	3406446	46.53	ug/l		98
51) 1,2-Dibromoethane	25.08	107	8832665	117.70	ug/l		98
52) Chlorobenzene	26.12	112	4503652	45.41	ug/l		98
53) 1,1,1,2-Tetrachloroethane	26.26	131	7090460	103.51	ug/l		94
54) Ethylbenzene	26.30	106	1812941	45.07	ug/l	#	72
56) trans-1,4-Dichloro-2-buten	29.05	89	1142247	142.21	ug/l	#	4
57) 1,2,3-Trichloropropane	29.06	75	8659018	139.42	ug/l		91
58) Pentachloroethane	30.55	167	4078639	107.16	ug/l		87
59) 1,3-Dichlorobenzene	31.39	146	4289164	44.46	ug/l		99
60) 1,4-Dichlorobenzene	31.62	146	4617007	46.92	ug/l	m	96
61) 1,2-Dichlorobenzene	32.73	146	3972306	46.80	ug/l	m	98
62) 1,2-Dibromo-3-chloropropan	35.36	157	1145550	117.23	ug/l	m	97
63) Styrene	27.48	104	3972370	45.69	ug/l		82
64) Xylene (total)	27.47	91	5462118	46.75	ug/l		92

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

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 1989-09-02

Case No.: Techalloy RFW Lot: 9504G211

Lab File ID (Standard): BYC419 Date Analyzed: 04/19/95

Instrument ID: gc12 Time Analyzed: 2130

GC Column: ID: (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA	#	RT	#	IS2(DFB) AREA	#	RT	#	IS3(CBZ) AREA	#	RT	#
	12 HOUR STD	10694		13.59		55010		15.07		50300		20.03	
	UPPER LIMIT	21388		14.09		110020		15.57		100600		20.53	
	LOWER LIMIT	5347		13.09		27505		14.57		25150		19.53	
	CLIENT SAMPLE NO.												
01	TC2-BG06-GWS	10388		13.57		55706		15.05		47475		20.00	
02	TC2-BG06-GWSMS	11370		13.60		58627		15.07		51375		20.03	
03	TC2-BG06-GWSMSD	11655		13.59		61628		15.07		52534		20.02	
04	TC2-BG06-GWD	12925		13.59		62916		15.06		52885		20.04	
05	TC2-BG07-GWS	11422		13.60		56230		15.08		50642		20.04	
06	TC2-BG07-GWD	10778		13.57		51999		15.05		46741		20.01	
07	VBLKGVB090-MB1	11277		13.60		55603		15.07		49065		20.02	
08	VBLKGVB090-MB1 BS	11168		13.60		54149		15.07		46495		20.02	

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 1989-09-02

Case No.: Techalloy RFW Lot: 9504G211

Lab File ID (Standard): BYB420 Date Analyzed: 04/20/95

Instrument ID: gc12 Time Analyzed: 2038

GC Column: ID: (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	10535	13.62	53528	15.10	49184	20.04
	UPPER LIMIT	21070	14.12	107056	15.60	98368	20.54
	LOWER LIMIT	5268	13.12	26764	14.60	24592	19.54
	CLIENT SAMPLE NO.						
01	TC2-BG06-GWSDL	10527	13.61	51458	15.08	47320	20.02
02	TC2-BG07-GWSDL	10294	13.62	51302	15.09	47745	20.04
03	TC2-BG06-GWS-DPDL	10546	13.58	53763	15.07	48505	20.04
04	VBLKGVB093-MB1	10174	13.63	50826	15.10	46451	20.05
05	VBLKGVB093-MB1 BS	10761	13.62	52313	15.10	47342	20.08

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy RFW Lot: 9504G211

Lab File ID (Standard): EBF421 Date Analyzed: 04/21/95

Instrument ID: GCL#5 Time Analyzed: 2255

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

		IS1(BCM) AREA	#	RT	IS2(DFB) AREA	#	RT	IS3(CBZ) AREA	#	RT
	12 HOUR STD	162802		15.64	620912		17.33	514097		23.00
	UPPER LIMIT	325604		16.14	1241825		17.83	1028194		23.50
	LOWER LIMIT	81401		15.14	310456		16.83	257049		22.50
	CLIENT SAMPLE NO.									
01	TC2-BG06-GWSDL	161959		15.61	587417		17.32	483680		23.00
02	TC2-BG06-GWS-DPDL	160691		15.62	574405		17.32	474643		22.98
03	VBLKGVE116-MB1	169345		15.62	615246		17.33	504721		23.00
04	VBLKGVE116-MB1 BS	173095		15.65	622229		17.35	514220		23.01

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy RFW Lot: 9504G211

Lab File ID (Standard): FOC419 Date Analyzed: 04/19/95

Instrument ID: GCL#6 Time Analyzed: 2110

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	1685789	18.32	6827131	20.09	5487307	26.02
	UPPER LIMIT	3371577	18.82	13654261	20.59	10974613	26.52
	LOWER LIMIT	842894	17.82	3413565	19.59	2743653	25.52
	CLIENT SAMPLE NO.						
01	TC2-BG06-SBS	1118077	18.33	4267481	20.09	3414237	26.00
02	VBLKGVF103-MB1	1657873	18.30	6460077	20.06	5516367	26.01
03	VBLKGVF103-MB1 BS	1403693	18.39	5435127	20.14	4553369	26.04

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 01989-009-002-0

Case No.: Techalloy RFW Lot: 9504G211

Lab File ID (Standard): F0B423 Date Analyzed: 04/23/95

Instrument ID: GCL#6 Time Analyzed: 1846

Matrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

		IS1(BCM) AREA	#	RT	IS2(DFB) AREA	#	RT	IS3(CBZ) AREA	#	RT
	12 HOUR STD	1743273		18.36	6406829		20.12	4978987		26.05
	UPPER LIMIT	3486545		18.86	12813659		20.62	9957973		26.55
	LOWER LIMIT	871636		17.86	3203415		19.62	2489493		25.55
	CLIENT SAMPLE NO.									
01	TC2-BG06-SBD	1318767		18.32	4598279		20.09	3589495		26.02
02	TC2-BG06-SBS-DP	1067665		18.37	3694027		20.14	3006633		26.04
03	VBLKGVF109-MB1	1836131		18.33	6420425		20.10	5237521		26.04
04	VBLKGVF109-MB1 BS	1615533		18.33	6445835		20.09	5299639		26.01
05	VBLKGVF109-MB1 BSD	1522157		18.33	5861079		20.10	4672037		26.03

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: Roy F. Weston, Inc. Contract: 1989-09-02

Case No.: Techalloy RFW Lot: 9504G211

Lab File ID (Standard): BYA420 Date Analyzed: 04/20/95

Instrument ID: gc12 Time Analyzed: 1030

GC Column: ID: (mm) Heated Purge: (Y/N) Y

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	10460	13.59	51657	15.07	47229	20.03
	UPPER LIMIT	20920	14.09	103314	15.57	94458	20.53
	LOWER LIMIT	5230	13.09	25829	14.57	23615	19.53
	CLIENT SAMPLE NO.						
01	TC2-BG07-SBS	8976	13.62	42921	15.10	38448	20.05
02	TC2-BG07-SBD	10676	13.61	51352	15.07	45116	20.02
03	TC2-BG07-SBDMS	10198	13.63	48584	15.11	42254	20.05
04	TC2-BG07-SBDMSD	9801	13.61	46185	15.08	40341	20.03
05	VBLKGVB092-MB1	10348	13.58	49707	15.06	44899	20.02
06	VBLKGVB092-MB1 BS	9628	13.61	46037	15.08	40846	20.02
07	VBLKGVB092-MB1 BSD	10330	13.59	49197	15.08	42710	20.03

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

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

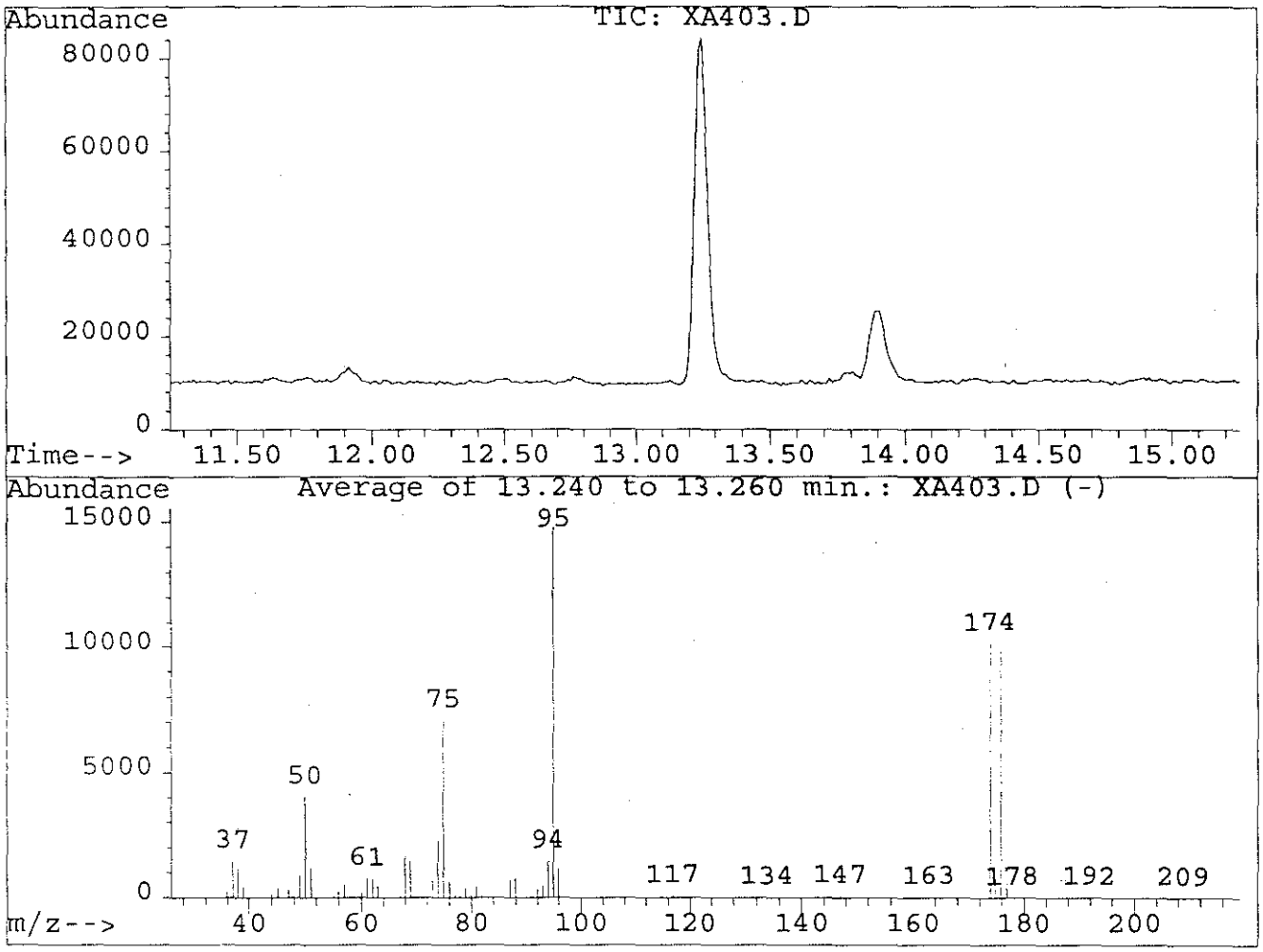
Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

V. Raw QC Data Package

BFB

Data File : c:\HPCHEM\1\DATA\XA403.D Vial: 0
Acq On : 3 Apr 95 9:29 am Operator: MANAGER
Sample : BFBTUNE BXA4 Converted from RTE d Inst : GCL2
Misc : GCL#2,DIL=1,5MLOFW +2UL BFB 252 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFB2.M
Title :



Peak Apex is scan: 317

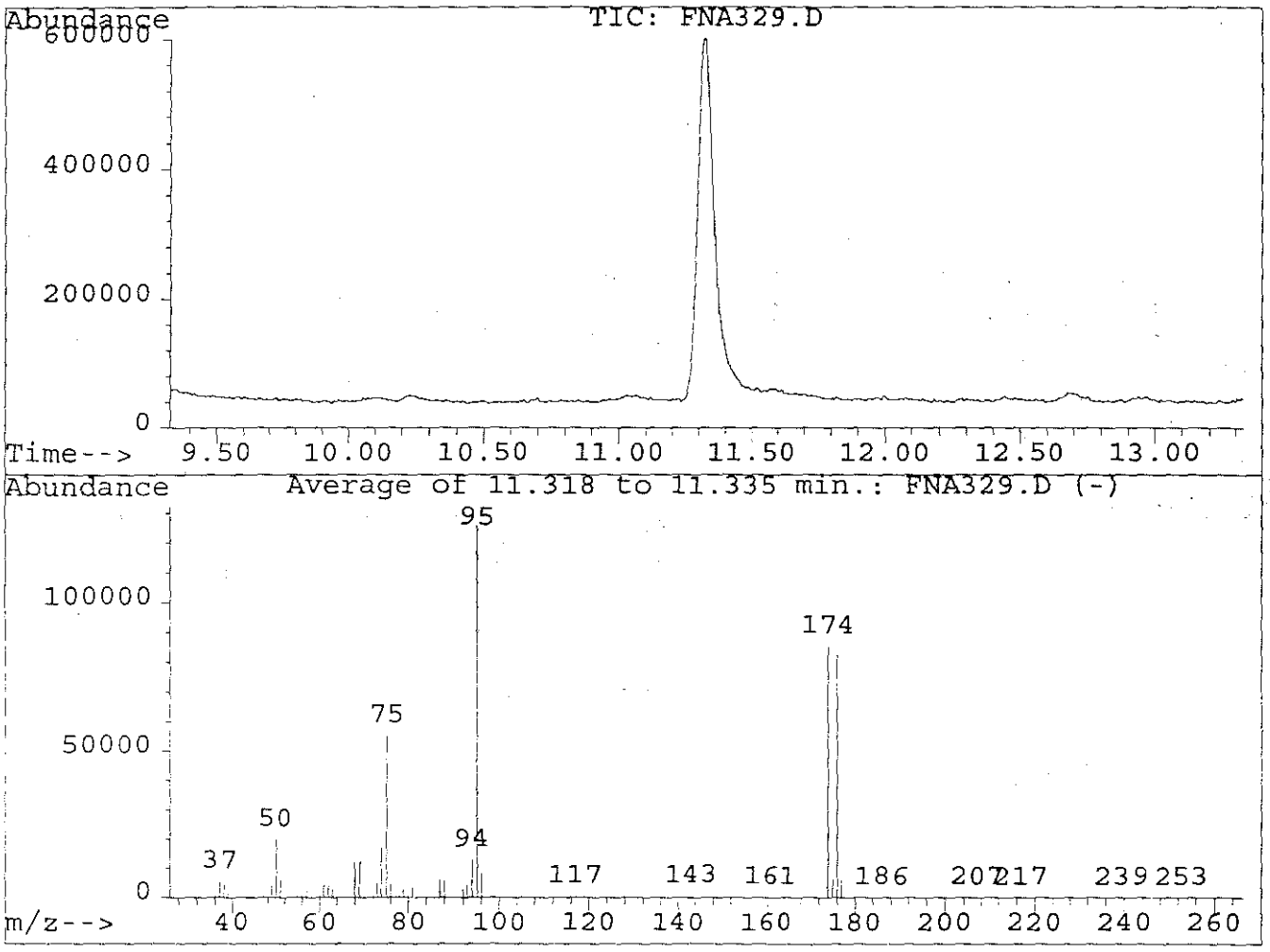
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	27.1	4012	PASS
75	95	30	60	47.8	7066	PASS
95	95	100	100	100.0	14784	PASS
96	95	5	9	7.7	1134	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	68.7	10151	PASS
175	174	5	9	7.5	757	PASS
176	174	95	101	97.1	9857	PASS
177	176	5	9	6.7	657	PASS

XA403.D BFB2.M Mon Apr 03 09:55:45 1995 RTE

BFB

Data File : C:\HPCHEM\1\DATA\MAR2995\FNA329.D Vial: 8
Acq On : 29 Mar 95 10:10 am Operator:
Sample : BFBTUNE FNA329 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+2ULBFB144 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFB.M
Title :



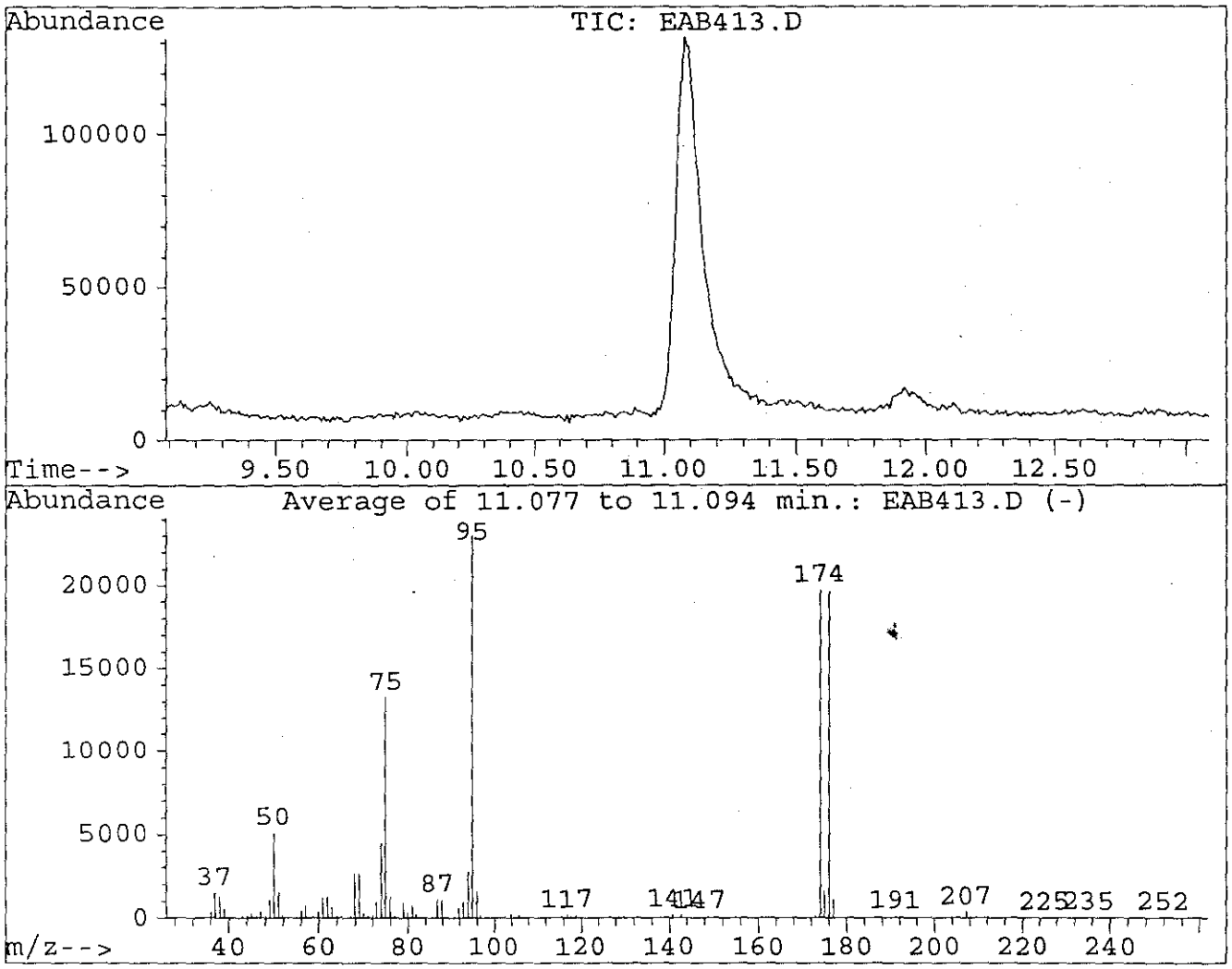
Peak Apex is scan: 271

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.9	19961	PASS
75	95	30	60	43.8	55204	PASS
95	95	100	100	100.0	125894	PASS
96	95	5	9	6.7	8398	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	67.6	85125	PASS
175	174	5	9	7.3	6176	PASS
176	174	95	101	96.8	82371	PASS
177	176	5	9	7.4	6099	PASS

BFB

Data File : C:\HPCHEM\1\DATA\APR1395A\EAB413.D Vial: 1
Acq On : 13 Apr 95 5:29 pm Operator:
Sample : BFBTUNE EAB413 Inst : gcms5
Misc : GCL#5,DIL=1,5ML OFW +2ULBFB 252 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFB.M
Title :



Peak Apex is scan: 597

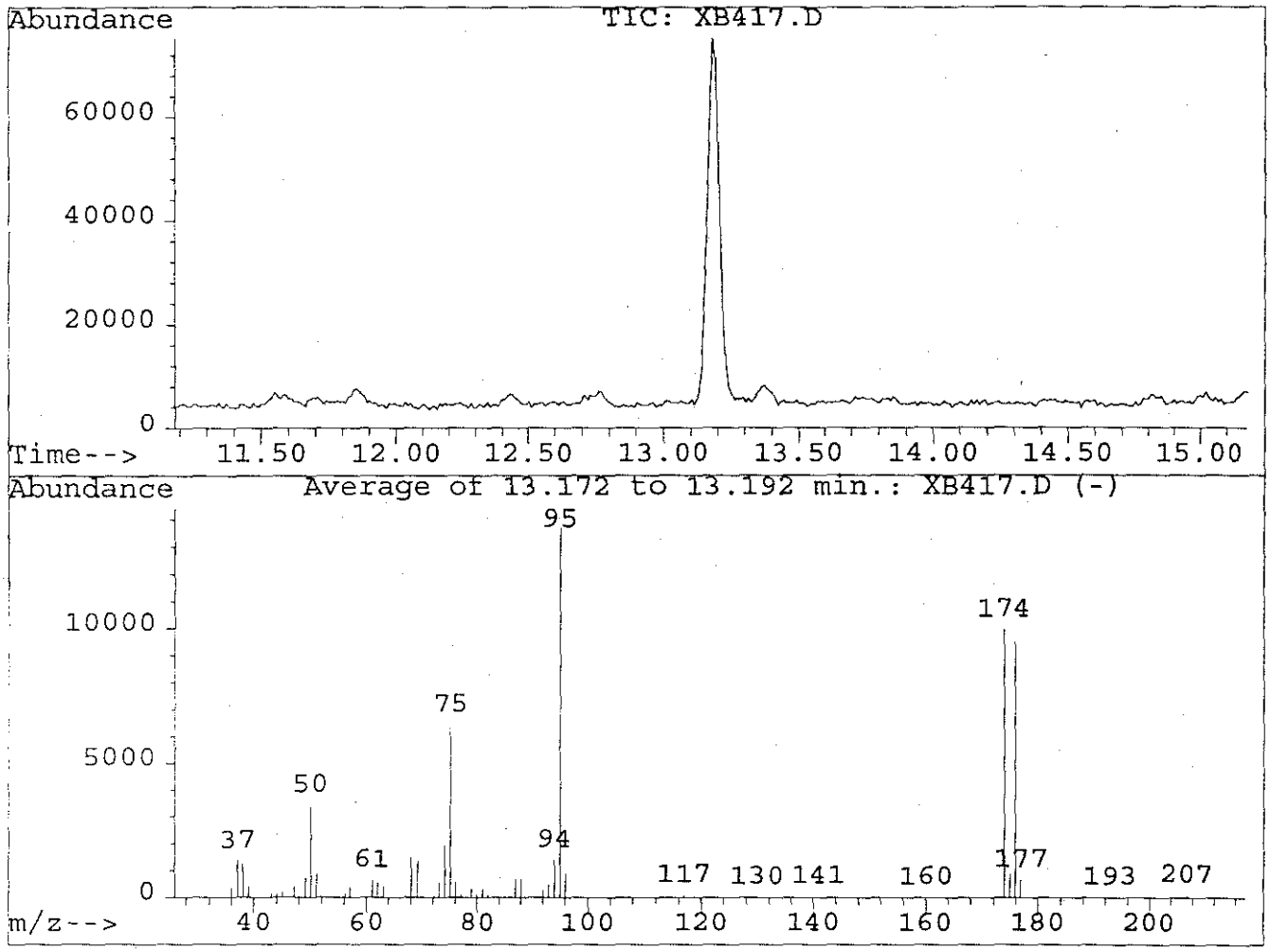
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.1	5069	PASS
75	95	30	60	57.6	13224	PASS
95	95	100	100	100.0	22965	PASS
96	95	5	9	6.8	1562	PASS
173	174	0	2	0.5	97	PASS
174	95	50	100	85.9	19717	PASS
175	174	5	9	7.9	1561	PASS
176	174	95	101	99.6	19637	PASS
177	176	5	9	5.6	1108	PASS

EAB413.D BFB.M Thu Apr 13 17:51:21 1995

BFB

Data File : c:\HPCHEM\1\DATA\XB417.D Vial: 0
Acq On : 17 Apr 95 11:43 am Operator: MANAGER
Sample : BFBTUNE BXB4 Converted from RTE d Inst : GCL2
Misc : GCL#2,DIL=1,5MLOFW+1ULBFB Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFB2.M
Title :



Peak Apex is scan: 308

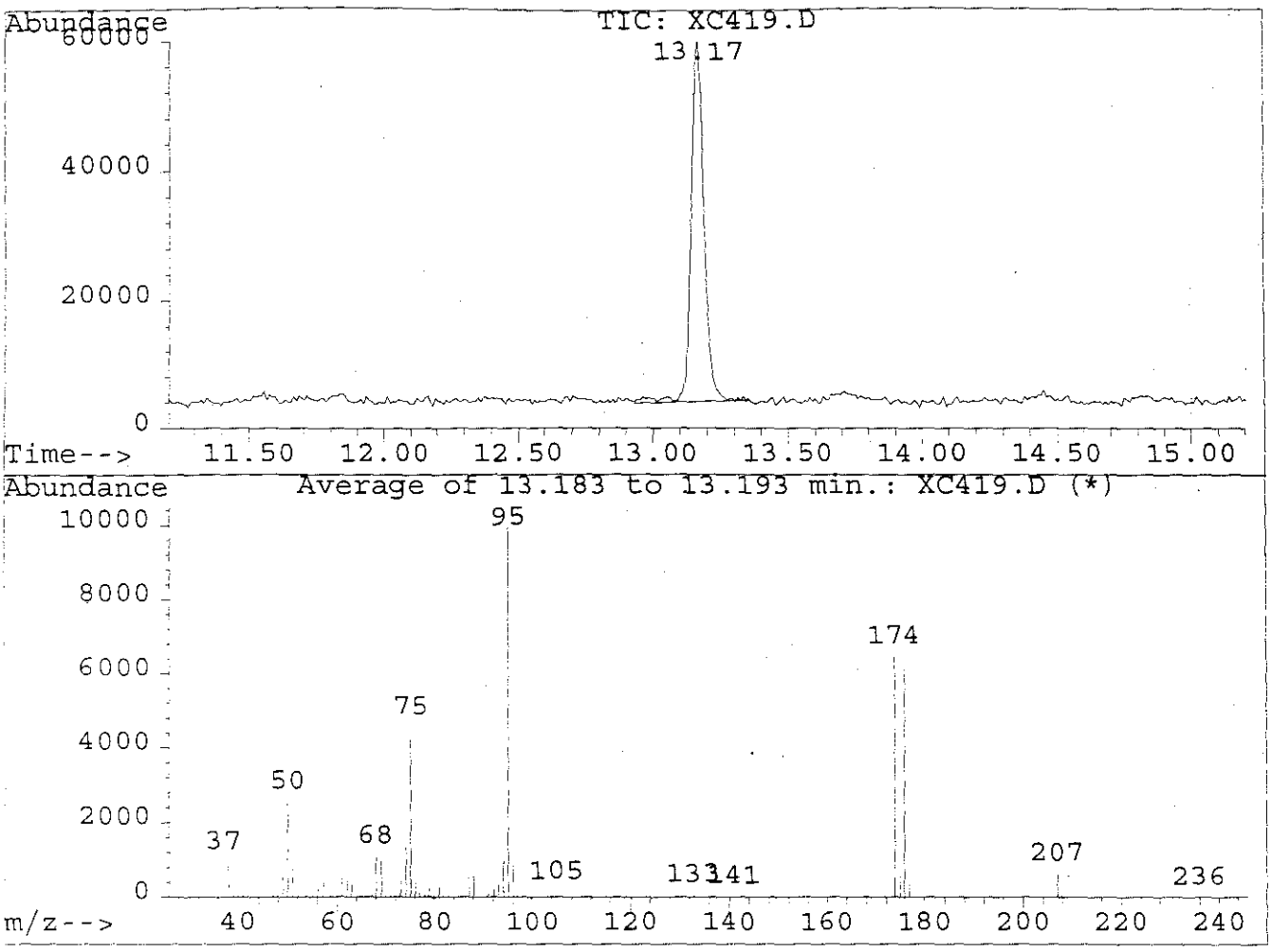
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.0	3431	PASS
75	95	30	60	46.8	6426	PASS
95	95	100	100	100.0	13735	PASS
96	95	5	9	6.6	912	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	72.3	9929	PASS
175	174	5	9	8.7	863	PASS
176	174	95	101	95.8	9512	PASS
177	176	5	9	6.8	645	PASS

XB417.D BFB2.M Mon Apr 17 12:11:34 1995 RTE

BFB

Data File : C:\HPCHEM\1\DATA\XC419.D Vial: 0
Acq On : 19 Apr 95 8:45 pm Operator: MANAGER
Sample : BFB TUNE BXC4 Converted from RTE d Inst : GCL2
Misc : GCL#2,DIL=1,5MLOFW+2UL BFB 262 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\DEFAULT.M
Title :



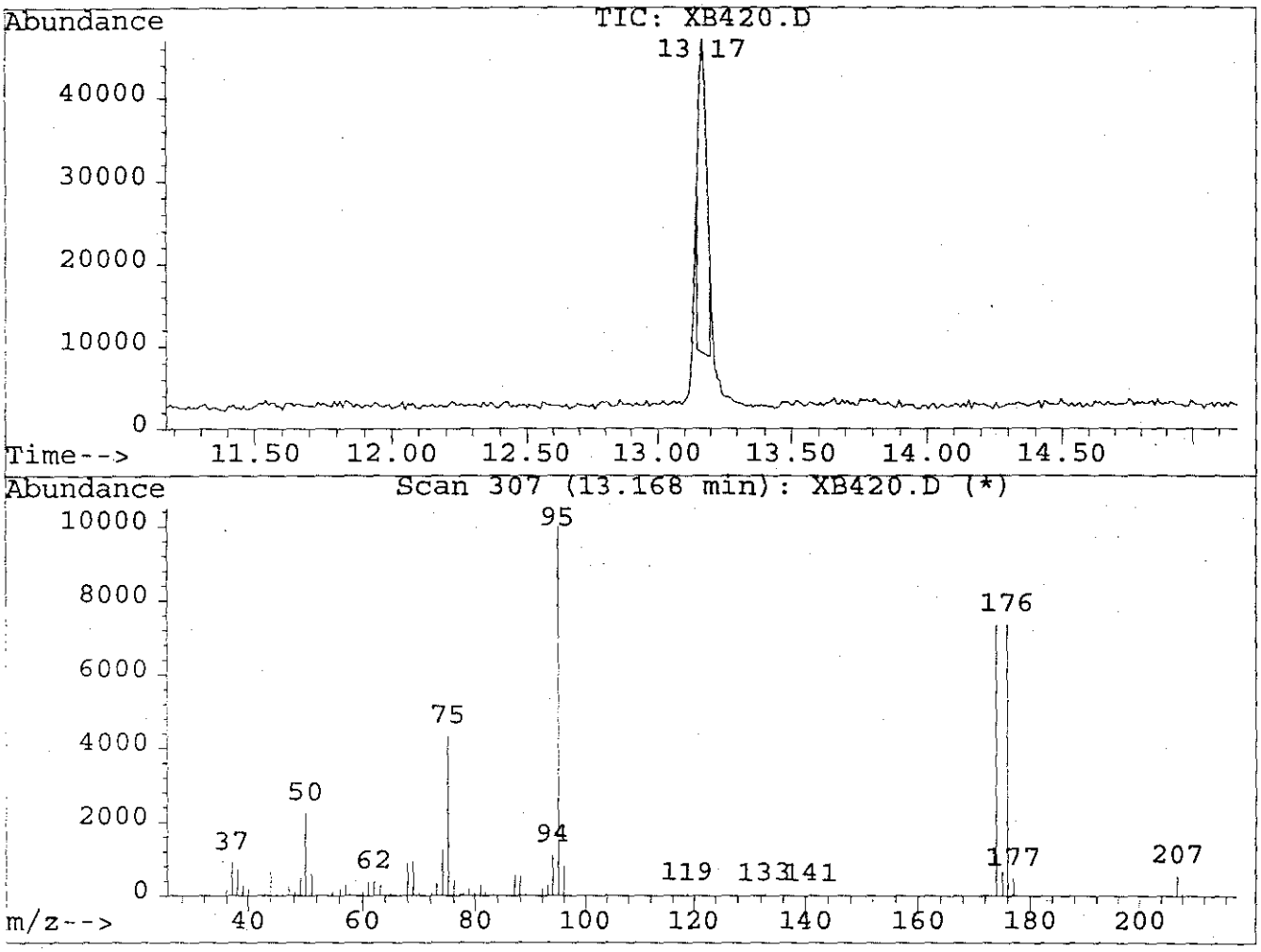
Peak Apex is scan: 311

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.4	2537	PASS
75	95	30	60	45.4	4542	PASS
95	95	100	100	100.0	10000	PASS
96	95	5	9	8.6	855	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	64.5	6451	PASS
175	174	5	9	8.8	567	PASS
176	174	95	101	95.1	6138	PASS
177	176	5	9	6.0	368	PASS

BFB

Data File : C:\HPCHEM\1\DATA\XB420.D Vial: 0
Acq On : 20 Apr 95 9:44 am Operator: MANAGER
Sample : BFBTUNE BXB4 Converted from RTE d Inst : GCL2
Misc : GCL#2,DIL=1,5MLOFW+1UL BFB Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFB2.M
Title :



Peak Apex is scan: 307

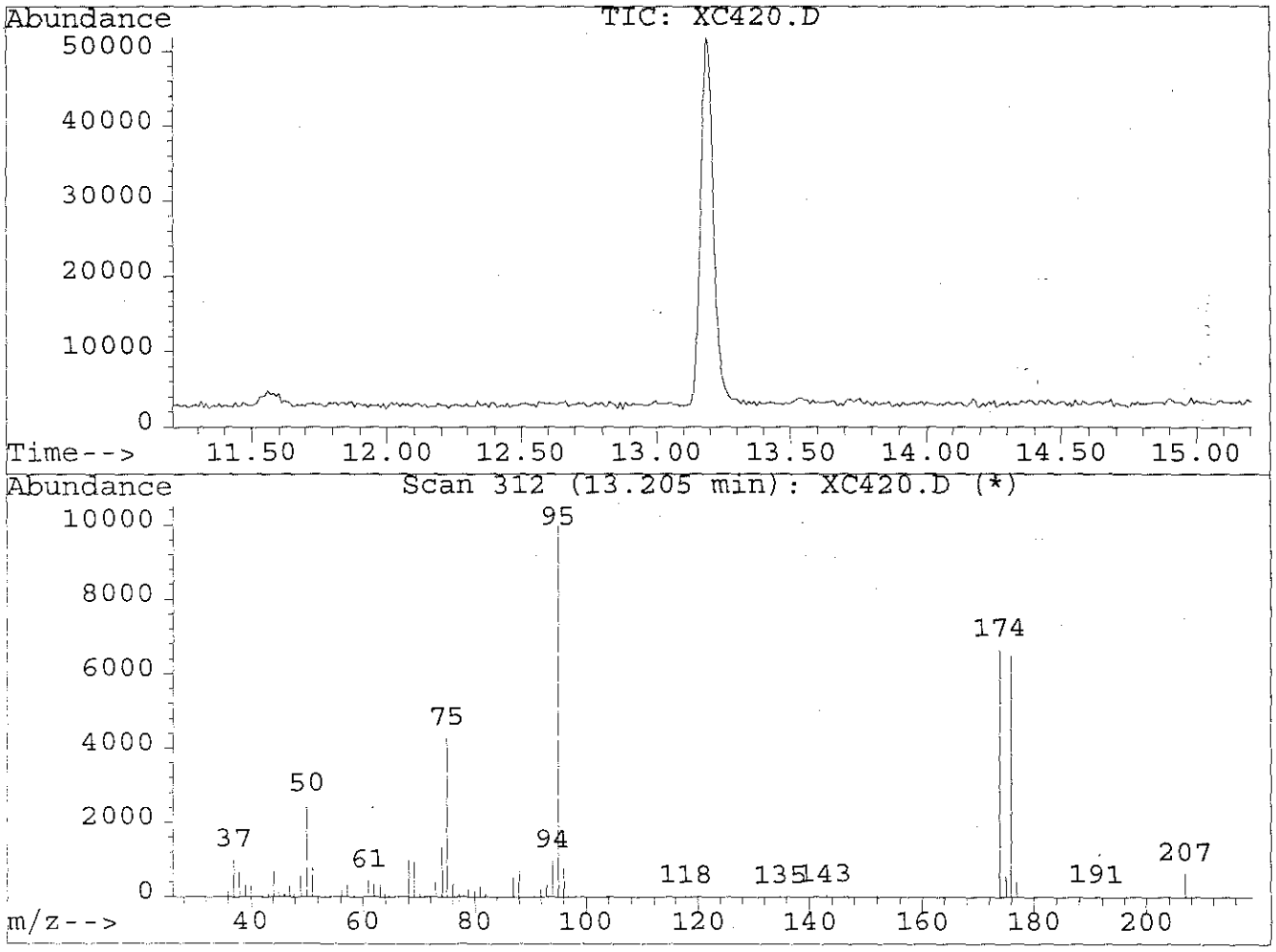
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.4	2238	PASS
75	95	30	60	43.2	4320	PASS
95	95	100	100	100.0	10000	PASS
96	95	5	9	8.1	811	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	73.3	7332	PASS
175	174	5	9	8.7	641	PASS
176	174	95	101	100.2	7343	PASS
177	176	5	9	6.4	470	PASS

XB420.D BFB2.M Thu Apr 20 10:15:50 1995 RTE

BFB

Data File : C:\HPCHEM\1\DATA\XC420.D Vial: 0
Acq On : 20 Apr 95 7:56 pm Operator: MANAGER
Sample : BFBTUNE BXC4 Converted from RTE d Inst : GCL2
Misc : GCL#2,DIL=1,5MLOFW+2UL252 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFB2.M
Title :



Peak Apex is scan: 312

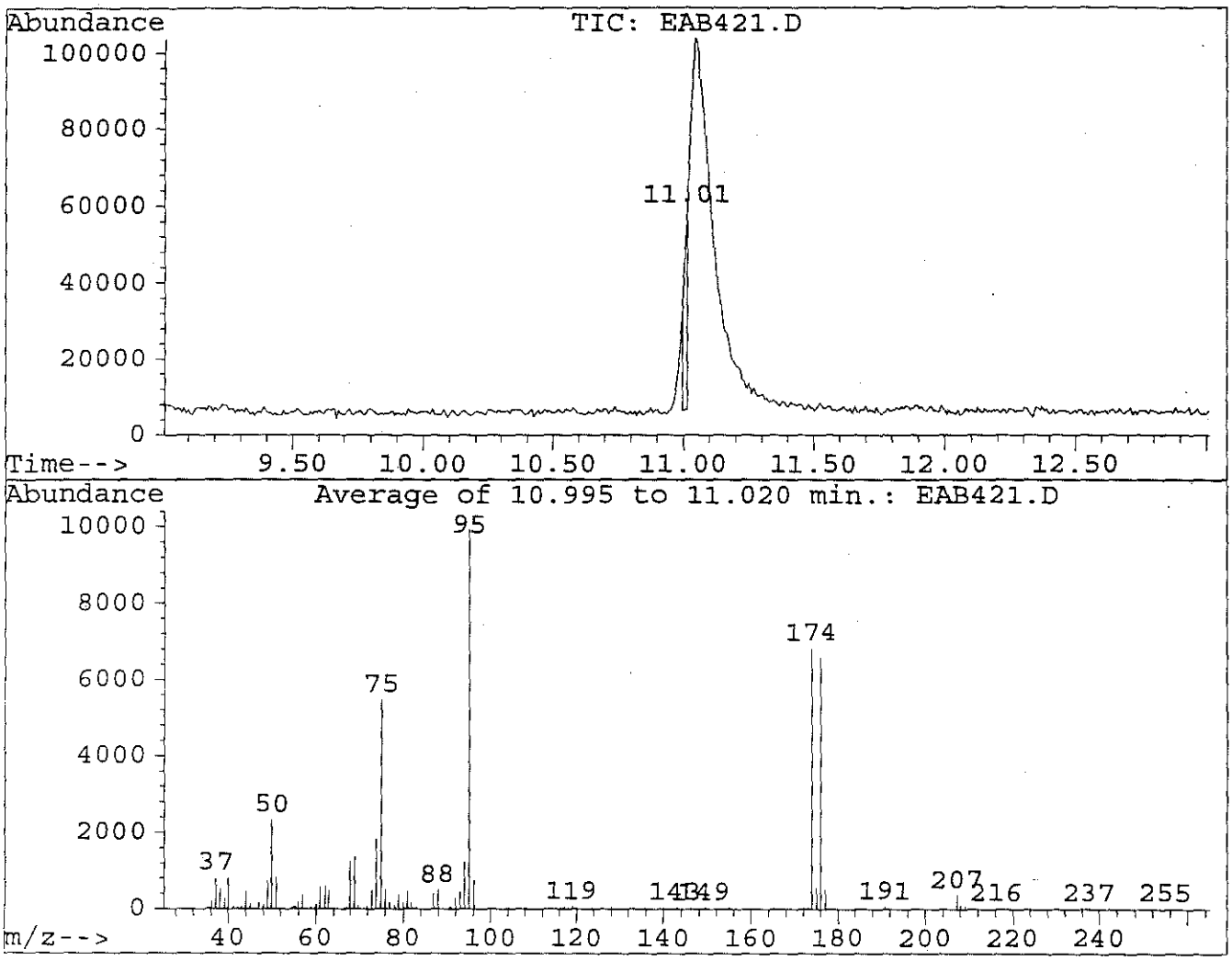
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.0	2499	PASS
75	95	30	60	42.8	4278	PASS
95	95	100	100	100.0	10000	PASS
96	95	5	9	7.8	783	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	66.7	6667	PASS
175	174	5	9	8.5	565	PASS
176	174	95	101	97.5	6503	PASS
177	176	5	9	6.4	416	PASS

XC420.D BFB2.M Thu Apr 20 20:26:48 1995 RTE

BFB

Data File : C:\HPCHEM\1\DATA\APR2195A\EAB421.D Vial: 2
Acq On : 21 Apr 95 8:13 pm Operator:
Sample : BFBTUNE EAB421 Inst : gcms5
Misc : GCL#5,DIL=1,5MLOFW+2UL BFB 252 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFB.M
Title :



Peak Apex is scan: 588

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	2329	PASS
75	95	30	60	55.1	5468	PASS
95	95	100	100	100.0	9915	PASS
96	95	5	9	7.6	753	PASS
173	174	0	2	0.6	41	PASS
174	95	50	100	68.8	6823	PASS
175	174	5	9	8.2	557	PASS
176	174	95	101	96.5	6586	PASS
177	176	5	9	7.7	504	PASS

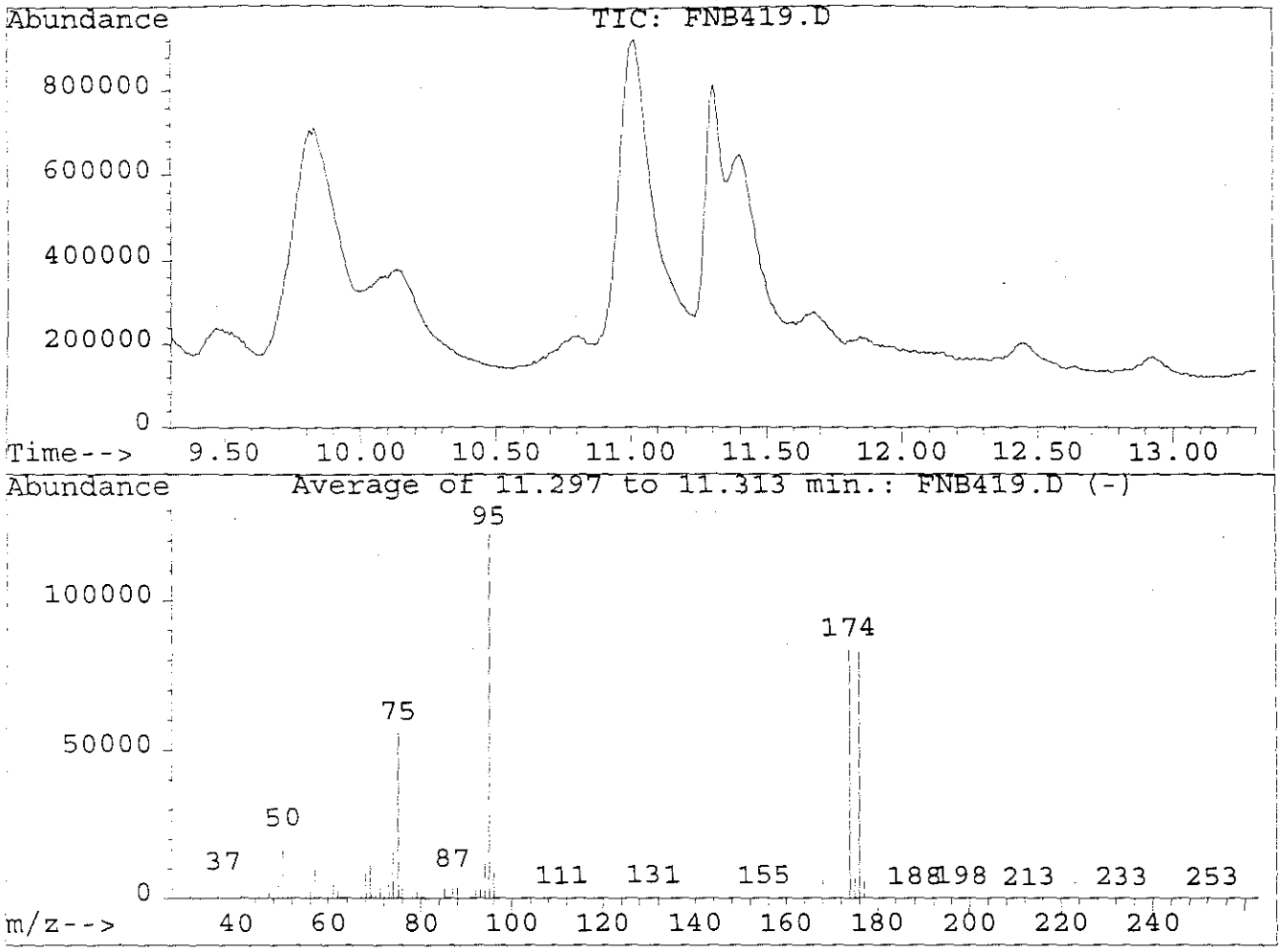
EAB421.D BFB.M Fri Apr 21 23:44:29 1995

BFB

Data File : C:\HPCHEM\1\DATA\APR1995A\FNB419.D
Acq On : 19 Apr 95 7:27 pm
Sample : BFBTUNE FNB419
Misc : GCL#6,DIL=1,5MLOFW+1ULBFB 262

Vial: 13
Operator:
Inst : inst #6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFB.M
Title :



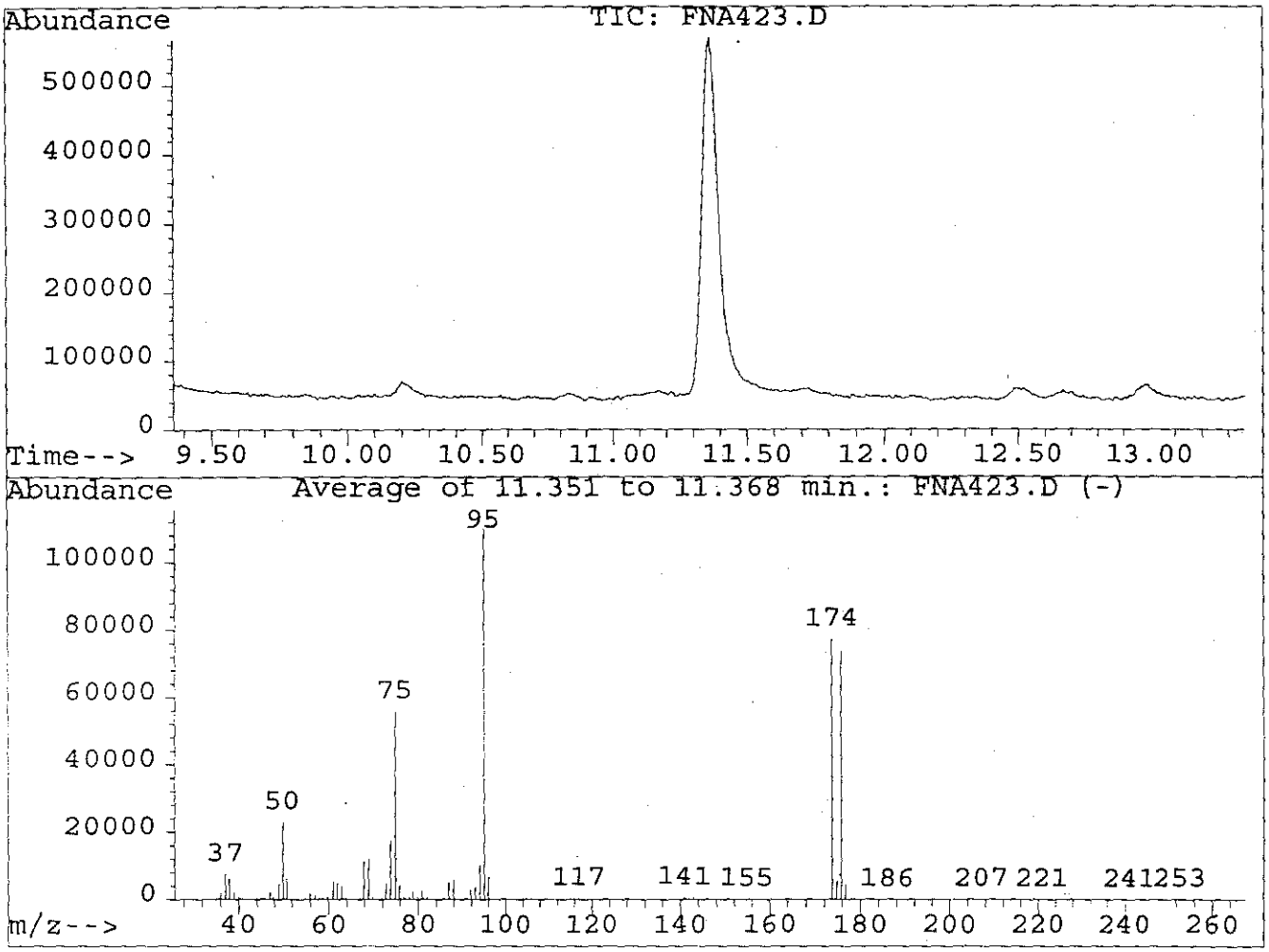
Peak Apex is scan: 268

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.0	20029	PASS
75	95	30	60	44.5	55693	PASS
95	95	100	100	100.0	125121	PASS
96	95	5	9	7.0	8711	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	66.7	83456	PASS
175	174	5	9	8.0	6711	PASS
176	174	95	101	99.4	82944	PASS
177	176	5	9	6.8	5650	PASS

BFB

Data File : C:\HPCHEM\1\DATA\APR2395\FNA423.D Vial: 1
Acq On : 23 Apr 95 3:52 pm Operator:
Sample : BFBTUNE FNA423 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+2ULBFB Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\BFB.M
Title :



Peak Apex is scan: 275

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.8	22946	PASS
75	95	30	60	50.6	55762	PASS
95	95	100	100	100.0	110181	PASS
96	95	5	9	6.1	6702	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	70.1	77195	PASS
175	174	5	9	7.1	5463	PASS
176	174	95	101	95.5	73744	PASS
177	176	5	9	6.4	4705	PASS

FNA423.D BFB.M Sun Apr 23 16:07:00 1995

1A

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER Lab Sample ID: 95GVB090-MB1

Sample wt/vol: 5 (g/mL) ML Lab File ID: BZE419

Level: (low/med) LOW Date Received: 04/19/95

% Moisture: not dec. _____ Date Analyzed: 04/19/95

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 95GVB090-MB1

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BZE419

Level: (low/med) LOW

Date Received: 04/19/95

% Moisture: not dec. _____

Date Analyzed: 04/19/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	20	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	50	U
107-05-1	3-Chloropropene	20	U
126-98-7	Methacrylonitrile	20	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2000	U
106-93-4	1,2-Dibromoethane	20	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	20	U
97-63-2	Ethylmethacrylate	20	U
76-01-7	Pentachloroethane	20	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 95GVB090-MB1

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BZE419

Level: (low/med) LOW

Date Received: 04/19/95

% Moisture: not dec. _____

Date Analyzed: 04/19/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

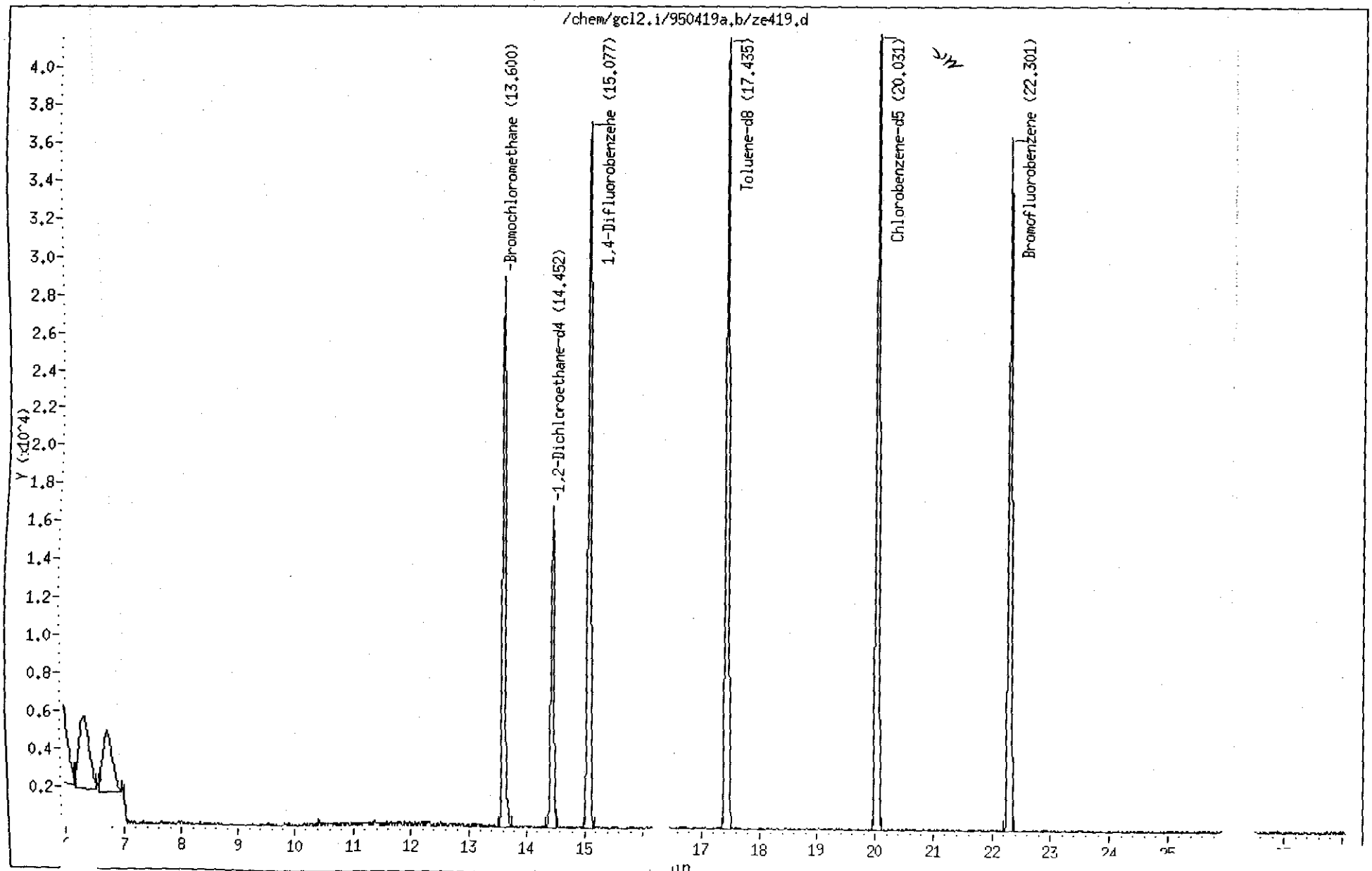
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

FORM 1 VOA-TIC 12/88 Rev.

Data File: /chem/gcl2.i/950419a.b/ze419.d
Date : 19-APR-1995 22:31
Client ID:
Sample Info: 95GVB090-MB1 BXC419
Purge Volume: 5.0
Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950419a.b/ze419.d
Lab Smp Id:
Inj Date : 19-APR-1995 22:31
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 95GVB090-MB1 BXC419
Misc Info : GCL#2,DIL=1,5MLOFW+5UL IS,SS
Comment :
Method : /chem/gcl2.i/950419a.b/8240w2.m
Meth Date : 19-Apr-1995 22:11 petruszj Quant Type: ISTD
Cal Date : 19-APR-1995 21:30 Cal File: yc419.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * 1

Name	Value	Description
Uf	1.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 27 Bromochloromethane	127.80	13.600	13.593	(1.000)	11277	50.00	
$ 33 1,2-Dichloroethane-d4	65.00	14.452	14.445	(1.063)	17661	52.46	52.46
* 36 1,4-Difluorobenzene	114.00	15.077	15.070	(1.000)	55603	50.00	
$ 46 Toluene-d8	98.00	17.435	17.439	(0.871)	52431	48.58	48.58
* 56 Chlorobenzene-d5	117.00	20.021	20.037	(1.000)	49065	50.00	
$ 64 Bromofluorobenzene	95.00	22.301	22.307	(1.114)	29616	46.42	46.42

Gulf Coast

Unknown Compounds Quantitation Report

Data file : /chem/gcl2.i/950419a.b/ze419.d
Lab Smp Id:
Inj Date : 19-APR-1995 22:31
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 95GVB090-MB1 BXC419
Misc Info : GCL#2,DIL=1,5MLOFW+5UL IS,SS
Comment :
Method : /chem/gcl2.i/950419a.b/8240w2.m
Meth Date : 19-Apr-1995 22:11 petruszj
Cal Date : 19-APR-1995 21:30 Cal File: yc419.d
Als bottle: 1
Dil Factor: 1.000 Target Version: 3.12
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

STD	RT	AREA	AMOUNT
27 Bromochloromethane	13.600	95466	50.000

	CONCENTRATIONS			QUANT			
RT	AREA	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
hylene oxide			CAS #: 75-21-8				
5.718	36203	18.96	18.96	2	NBS75K.1	62267	27

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL Lab Sample ID: 95GVB092-MB1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: BZD420

Level: (low/med) LOW Date Received: 04/20/95

% Moisture: not dec. 0 Date Analyzed: 04/20/95

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL Lab Sample ID: 95GVB092-MB1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: BZD420

Level: (low/med) LOW Date Received: 04/20/95

% Moisture: not dec. 0 Date Analyzed: 04/20/95

Column: (pack/cap) PACK Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	20	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	50	U
107-05-1	3-Chloropropene	20	U
126-98-7	Methacrylonitrile	20	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2000	U
106-93-4	1,2-Dibromoethane	20	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	20	U
97-63-2	Ethylmethacrylate	20	U
76-01-7	Pentachloroethane	20	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: NONE

Client: LAB

Matrix: SOIL

Lab Sample ID: 95GVB092-MB1

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BZD420

Level: (low/med) LOW

Date Received: 04/20/95

% Moisture: not dec. 0

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	26.88	6	J

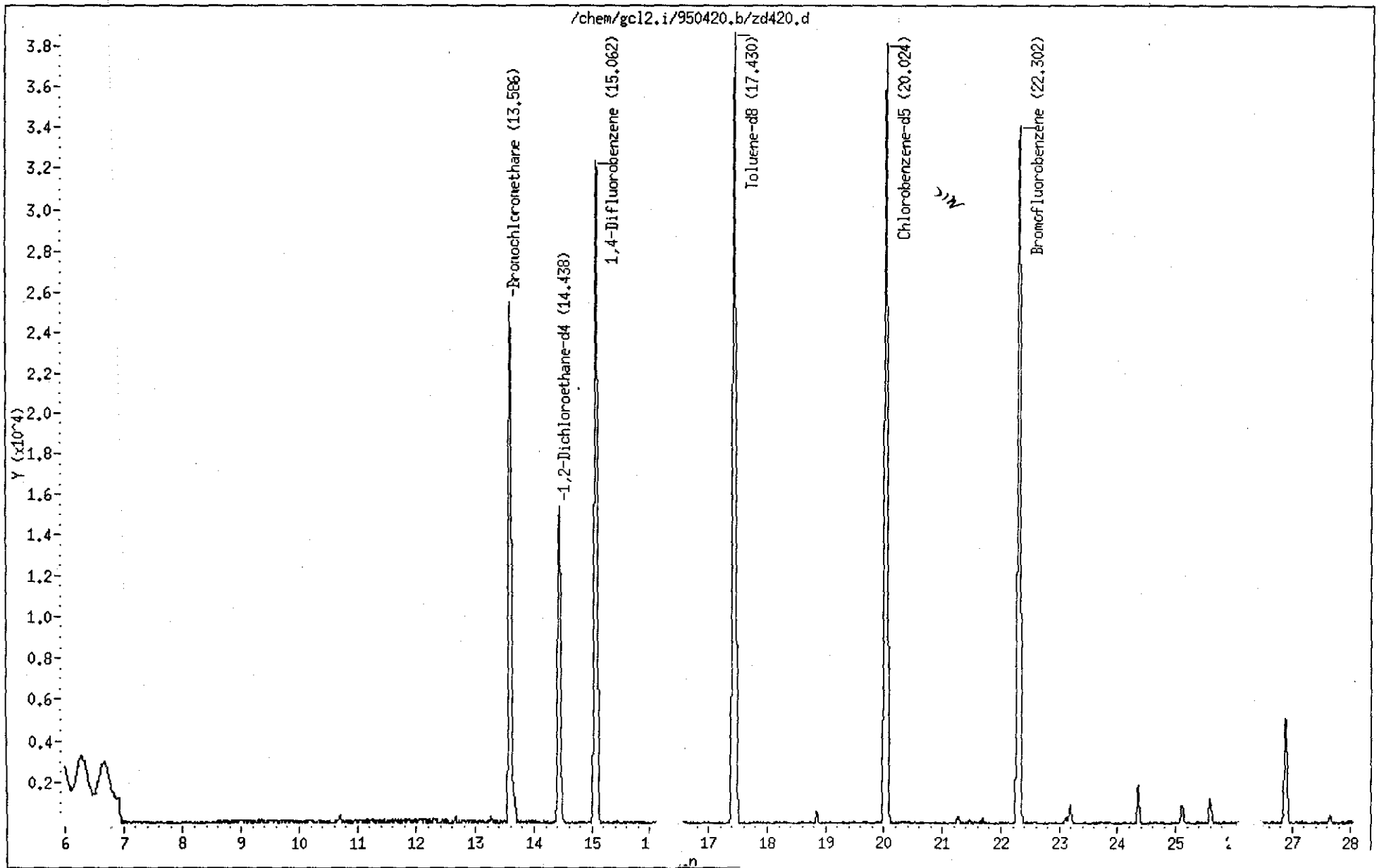
FORM 1 VOA-TIC 12/88 Rev.

Data File: /chem/gcl2.i/950420.b/zd420.d
Date : 20-APR-1995 12:54
Client ID:
Sample Info: 95GVB092-MB1 BXA420

Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950420.b/zd420.d
Lab Smp Id:
Inj Date : 20-APR-1995 12:54
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 95GVB092-MB1 BXB420
Misc Info : GCL#2,DIL=1,5MLOFW+5ULIS,SS
Comment :
Method : /chem/gcl2.i/950420.b/8240s2.m
Meth Date : 20-Apr-1995 11:24 petruszj Quant Type: ISTD
Cal Date : 20-APR-1995 10:30 Cal File: ya420.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	Bromochloromethane	127.80	13.586	13.591	(1.000)	10348	50.00	
$	33 1,2-Dichloroethane-d4	65.00	14.438	14.453	(1.063)	16459	52.41	52.41
*	37 1,4-Difluorobenzene	114.00	15.062	15.078	(1.000)	49707	50.00	
$	47 Toluene-d8	98.00	17.430	17.437	(0.870)	49019	49.07	49.07
*	56 Chlorobenzene-d5	117.00	20.024	20.033	(1.000)	44899	50.00	
$	64 Bromofluorobenzene	95.00	22.302	22.313	(1.114)	27795	45.48	45.48

Gulf Coast

Unknown Compounds Quantitation Report

Data file : /chem/gcl2.i/950420.b/zd420.d
Lab Smp Id:
Inj Date : 20-APR-1995 12:54
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 95GVB092-MB1 BXA420
Misc Info : GCL#2,DIL=1,5MLOFW+5ULIS,SS
Comment :
Method : /chem/gcl2.i/950420.b/8240s2.m
Meth Date : 20-Apr-1995 11:24 petruszj
Cal Date : 20-APR-1995 10:30 Cal File: ya420.d
Als bottle: 1
Dil Factor: 1.000 Target Version: 3.12
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: None
Quantitative Mode : Use RF of Nearest Std

ISTD	RT	AREA	AMOUNT
* 6 Chlorobenzene-d5	20.024	136256	50.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
1-Heptene			CAS #: 592-76-7				
26.877	17125	6.28	6.28	38	NBS75K.l	63241	56

Data File: /chem/gcl2.i/950420.b/zd420.d

Date : 20-APR-1995 12:54

ient ID:

Instrument: gcl2.i

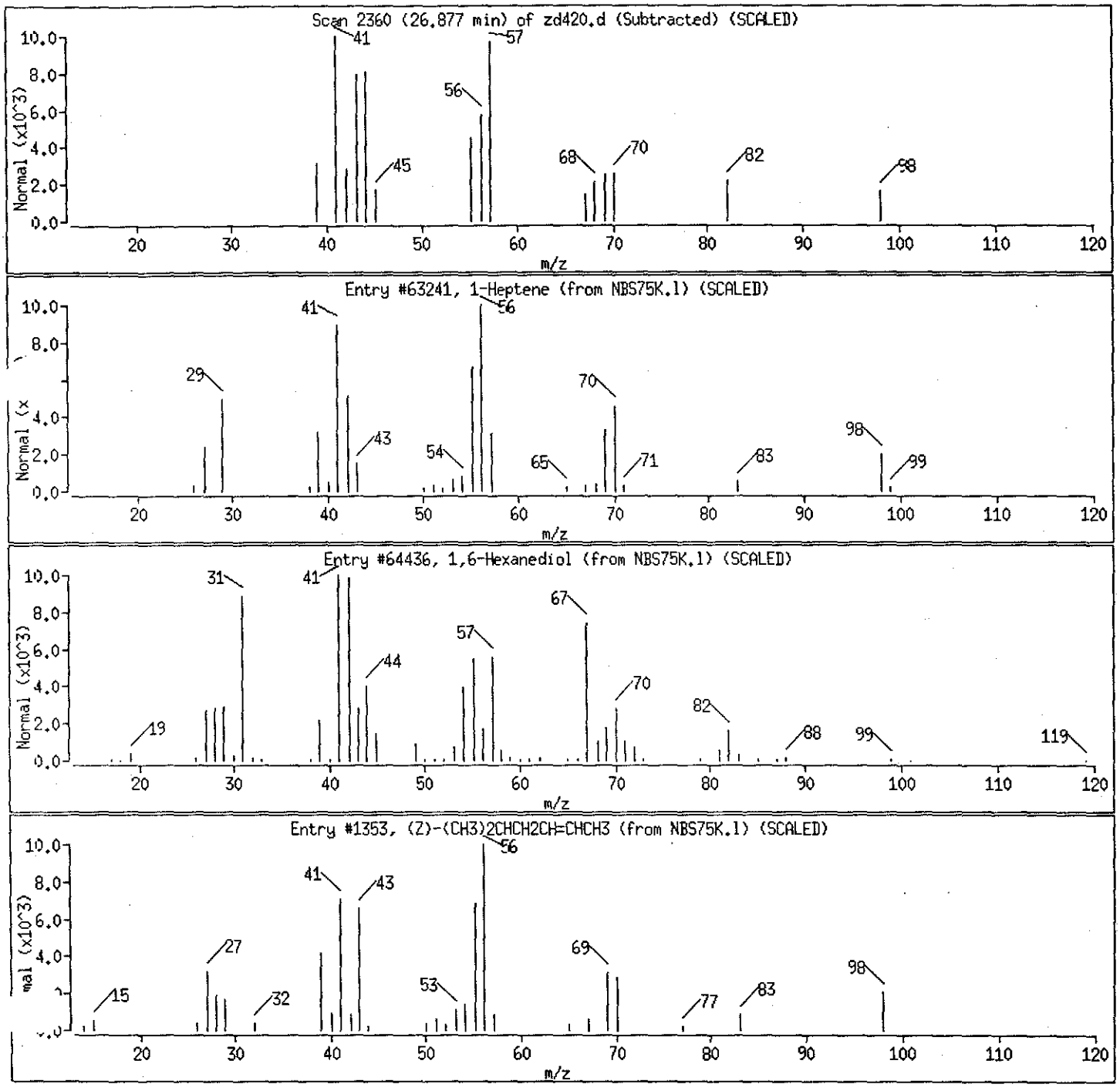
Sample Info: 95GVB092-MB1 BXA420

Operator: MANAGER MS

Column phase:

Column diameter: 2.00

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1-Heptene	592-76-7	NBS75K.l	63241	38	C7H14	98
1,6-Hexanediol	629-11-8	NBS75K.l	64436	25	C6H1402	118
(Z)-(CH3)2CHCH2CH=CHCH3	13151-17-2	NBS75K.l	1353	22	C7H14	98



1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 95GVB093-MB1

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BZE420

Level: (low/med) LOW

Date Received: 04/20/95

% Moisture: not dec.

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 95GVB093-MB1

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BZE420

Level: (low/med) LOW

Date Received: 04/20/95

% Moisture: not dec.

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	20	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	50	U
107-05-1	3-Chloropropene	20	U
126-98-7	Methacrylonitrile	20	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2000	U
106-93-4	1,2-Dibromoethane	20	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	20	U
97-63-2	Ethylmethacrylate	20	U
76-01-7	Pentachloroethane	20	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 95GVB093-MB1

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BZE420

Level: (low/med) LOW

Date Received: 04/20/95

% Moisture: not dec. ____

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

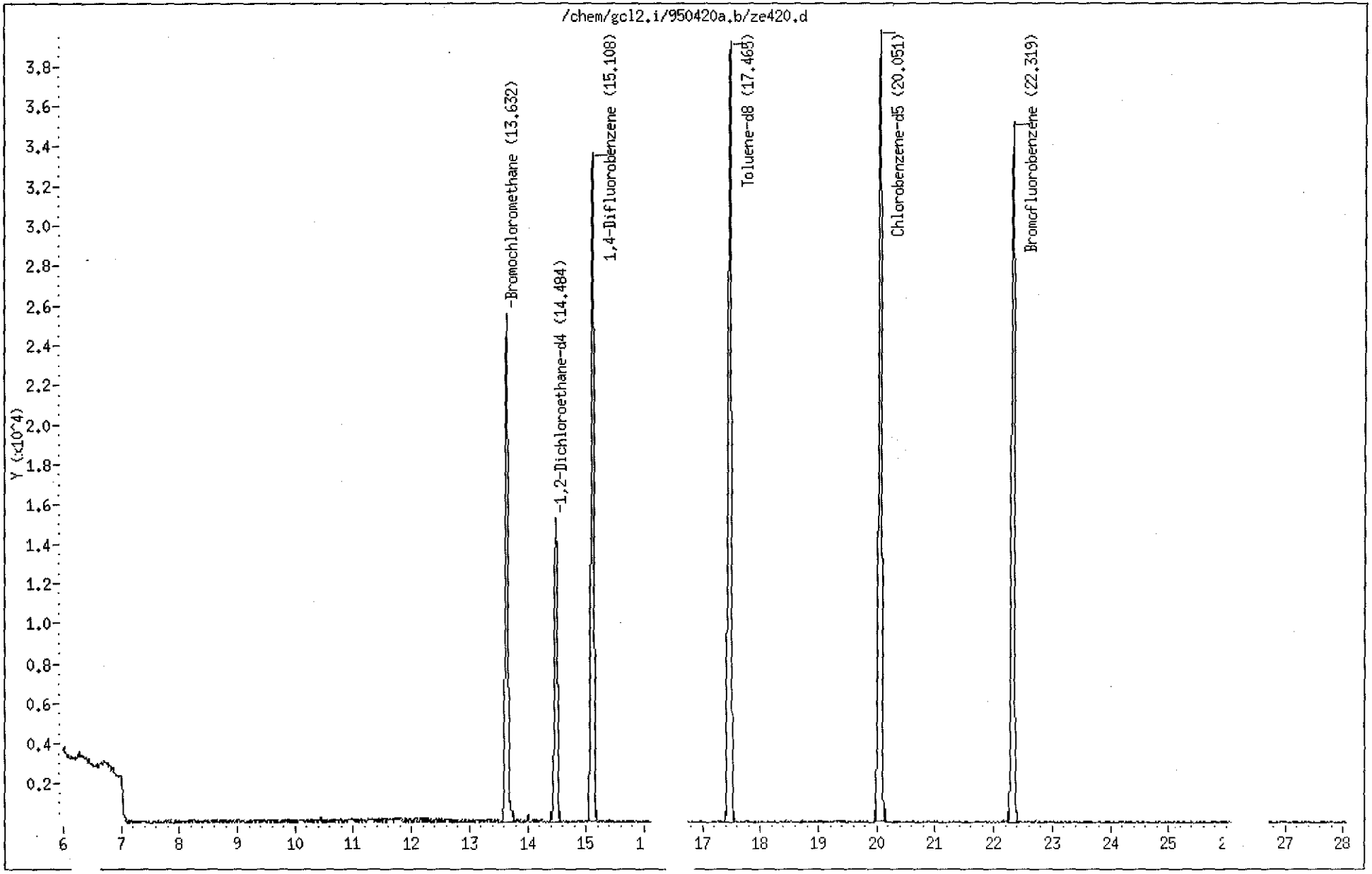
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

FORM 1 VOA-TIC 12/88 Rev.

Data File: /chem/gcl2.i/950420a.b/ze420.d
Date : 20-APR-1995 21:39
Client ID:
Sample Info: 95GVB093-MB1 BXC420
Purge Volume: 5.0
Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950420a.b/ze420.d
Lab Smp Id:
Inj Date : 20-APR-1995 21:39
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 95GVB093-MB1 BXC420
Misc Info : GCL#2,DIL=1,5MLOFW+5ULIS,SS
Comment :
Method : /chem/gcl2.i/950420a.b/8240w2.m
Meth Date : 20-Apr-1995 21:32 petruszj Quant Type: ISTD
Cal Date : 20-APR-1995 20:38 Cal File: yb420.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * 1

Name	Value	Description
Uf	1.000	ng unit correction factor

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
27	Bromochloromethane	127.80	13.632	13.624	(1.000)	10174	50.00	
33	1,2-Dichloroethane-d4	65.00	14.484	14.476	(1.062)	16316	52.06	52.06
36	1,4-Difluorobenzene	114.00	15.108	15.100	(1.000)	50826	50.00	
46	Toluene-d8	98.00	17.465	17.460	(0.871)	50516	49.31	49.31
56	Chlorobenzene-d5	117.00	20.051	20.049	(1.000)	46451	50.00	
64	Bromofluorobenzene	95.00	22.319	22.311	(1.113)	28254	47.44	47.44

Gulf Coast

Unknown Compounds Quantitation Report

Data file : /chem/gcl2.i/950420a.b/ze420.d
Lab Smp Id:
Inj Date : 20-APR-1995 21:39
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 95GVB093-MB1 BXC420
Misc Info : GCL#2,DIL=1,5MLOFW+5ULIS,SS
Comment :
Method : /chem/gcl2.i/950420a.b/8240w2.m
Meth Date : 20-Apr-1995 21:32 petruszj
Cal Date : 20-APR-1995 20:38 Cal File: yb420.d
Als bottle: 1
Dil Factor: 1.000 Target Version: 3.12
Integrator: HP RTE Compound Sublist: all.sub
Sample Matrix: WATER
Quantitative Mode : Use RF of Nearest Std

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 95GVE116-MB1

Sample wt/vol: 5 (g/mL) ML

Lab File ID: ECF421

Level: (low/med) LOW

Date Received: 04/21/95

% Moisture: not dec. _____

Date Analyzed: 04/21/95

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 95GVE116-MB1

Sample wt/vol: 5 (g/mL) ML

Lab File ID: ECF421

Level: (low/med) LOW

Date Received: 04/21/95

% Moisture: not dec. _____

Date Analyzed: 04/21/95

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	20	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	50	U
107-05-1	3-Chloropropene	20	U
126-98-7	Methacrylonitrile	20	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2000	U
106-93-4	1,2-Dibromoethane	20	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	20	U
97-63-2	Ethylmethacrylate	20	U
76-01-7	Pentachloroethane	20	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 95GVE116-MB1

Sample wt/vol: 5 (g/mL) ML

Lab File ID: ECF421

Level: (low/med) LOW

Date Received: 04/21/95

% Moisture: not dec. _____

Date Analyzed: 04/21/95

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

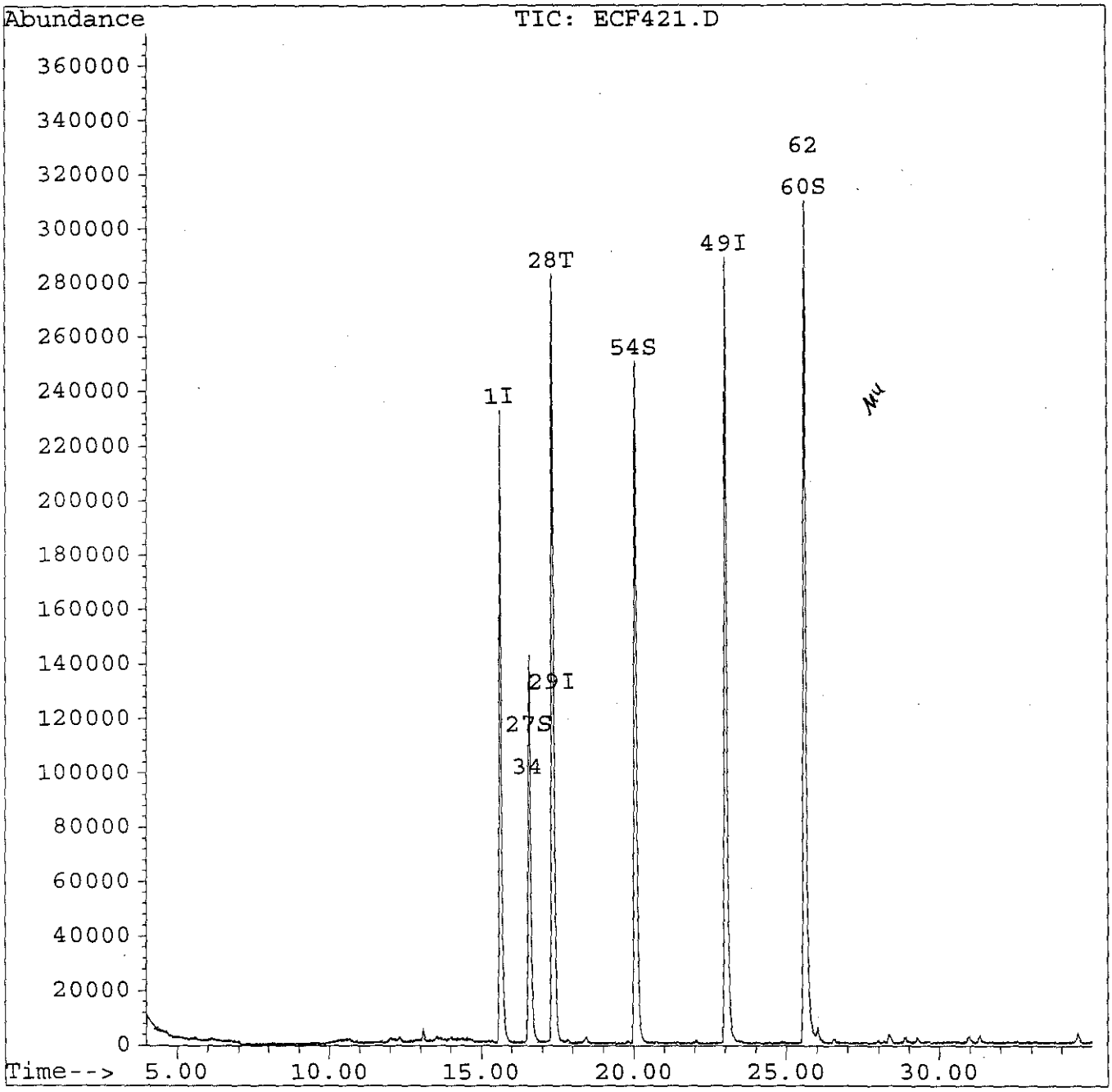
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2195A\ECF421.D
Acq On : 21 Apr 95 11:51 pm
Sample : 95GVE116-MB1 EAB421
Misc : GCL#5,DIL=1,5MLOFW+5ULIS,SS
Quant Time: Apr 22 0:26 1995

Vial: 5
Operator:
Inst : gcms5
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Apr 21 23:37:58 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2195A\ECF421.D Vial: 5
Acq On : 21 Apr 95 11:51 pm Operator:
Sample : 95GVE116-MB1 EAB421 Inst : gcms5
Misc : GCL#5,DIL=1,5MLOFW+5ULIS,SS Multiplr: 1.00
Quant Time: Apr 22 0:26 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Apr 21 23:37:58 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	15.62	128	169345	50.00	ug/l	-0.01
29) 1,4-Difluorobenzene	17.33	114	615246	50.00	ug/l	0.00
49) Chlorobenzene-d5	23.00	117	504721	50.00	ug/l	0.00
70) bromochloromethane	15.62	128	169345	0.00	ug/l	0.00
System Monitoring Compounds						%Recovery
27) 1,2-Dichloroethane-d4	16.59	65	280709	47.78	ug/l	95.55%
54) Toluene-d8	20.04	98	513618	48.62	ug/l	97.23%
60) Bromofluorobenzene	25.61	95	390214	46.68	ug/l	93.36%
Target Compounds						Qvalue
28) 1,2-Dichloroethane	17.34	62	21582	3.20	ug/l #	19
34) Isobutanol	16.56	43	6982	68.44	ug/l #	18
62) 1,2,3-Trichloropropane	25.61	75	200609	29.17	ug/l #	51

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

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\APR2195A\ECF421.D
Acq On : 21 Apr 95 11:51 pm
Sample : 95GVE116-MB1 EAB421
Misc : GCL#5,DIL=1,5MLOFW+5ULIS,SS

Vial: 5
Operator:
Inst : gcms5
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Library : NBS75K.L

No Library Search Compounds Detected

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL

Lab Sample ID: 95GVF103-MB1

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: FPD419

Level: (low/med) LOW

Date Received: 04/19/95

% Moisture: not dec. 0

Date Analyzed: 04/19/95

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	13	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL

Lab Sample ID: 95GVF103-MB1

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: FPD419

Level: (low/med) LOW

Date Received: 04/19/95

% Moisture: not dec. 0

Date Analyzed: 04/19/95

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	20	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	50	U
107-05-1	3-Chloropropene	20	U
126-98-7	Methacrylonitrile	20	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2000	U
106-93-4	1,2-Dibromoethane	20	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	20	U
97-63-2	Ethylmethacrylate	20	U
76-01-7	Pentachloroethane	20	U

FORM 1 V-2 12/88 Rev.

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL

Lab Sample ID: 95GVF103-MB1

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: FPD419

Level: (low/med) LOW

Date Received: 04/19/95

% Moisture: not dec. 0

Date Analyzed: 04/19/95

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

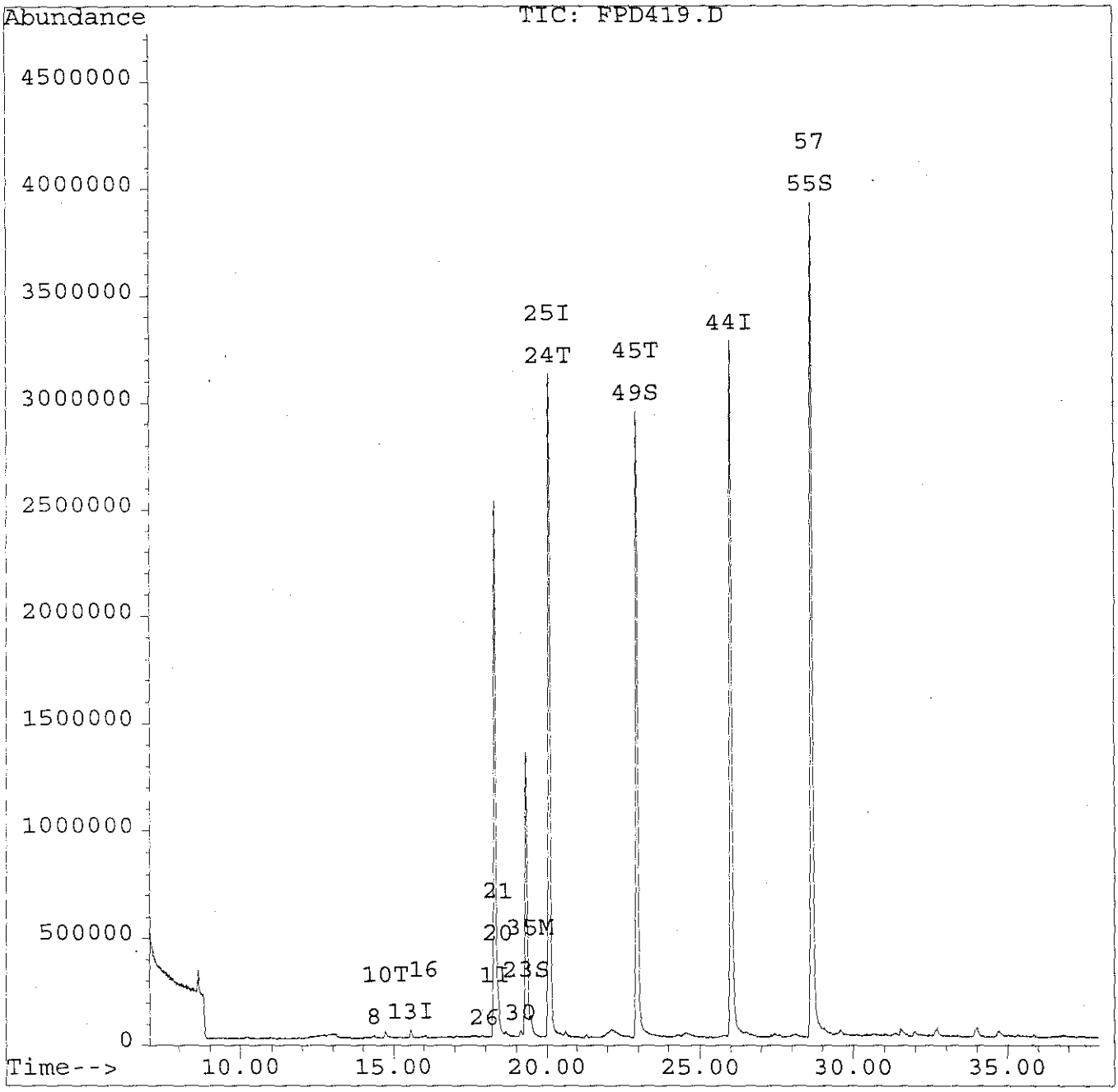
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR1995A\FPD419.D Vial: 15
Acq On : 19 Apr 95 11:22 pm Operator:
Sample : 95GVF103-MB1 FNB419 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS Multiplr: 1.00
Quant Time: Apr 20 0:13 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 19 22:10:43 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR1995A\FPD419.D Vial: 15
Acq On : 19 Apr 95 11:22 pm Operator:
Sample : 95GVF103-MB1 FNB419 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS Multiplr: 1.00
Quant Time: Apr 20 0:13 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 19 22:10:43 1995
Response via : Single Level Calibration

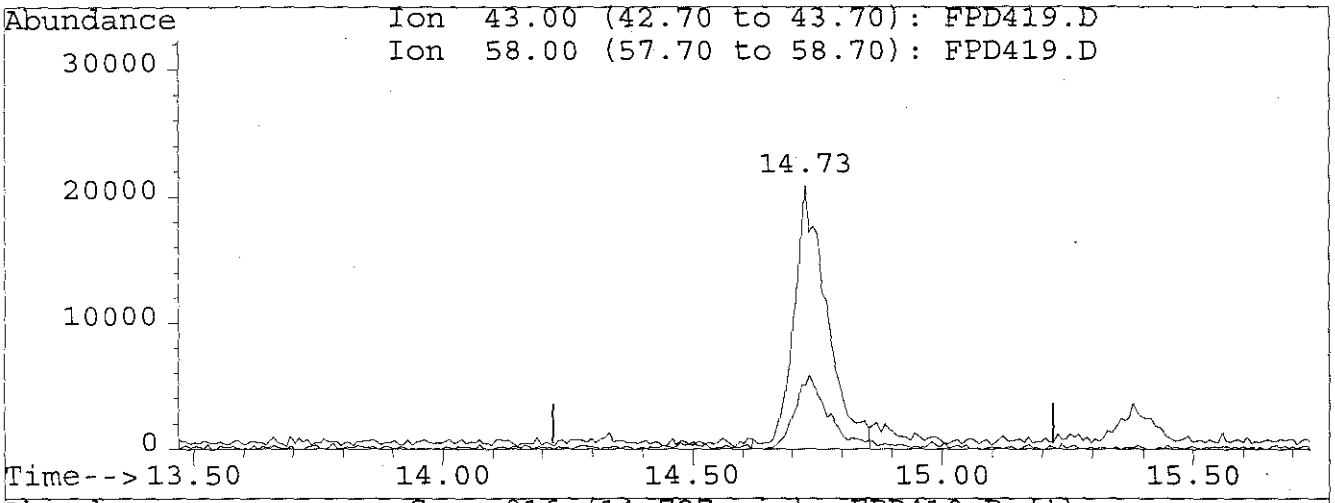
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	18.30	128	1657873	50.00	ug/l		-0.02
25) 1,4-Difluorobenzene	20.06	114	6460076	50.00	ug/l		-0.02
44) Chlorobenzene-d5	26.01	117	5516367	50.00	ug/l		-0.01
System Monitoring Compounds							%Recovery
23) 1,2-Dichloroethane-d4	19.31	65	2147116	53.36	ug/l		106.72%
49) Toluene-d8	22.95	98	5484124	48.92	ug/l		97.84%
55) Bromofluorobenzene	28.65	95	4799358	51.81	ug/l		103.62%
Target Compounds							Qvalue
8) Acrolein	14.37	56	13766	3.99	ug/l		93
10) Acetone	14.73	43	96591	12.52	ug/l	m	47
13) Methylene Chloride	15.55	84	36318	0.60	ug/l		95
16) Acrylonitrile	16.00	53	5071	0.92	ug/l	#	30
20) Methacrylonitrile	18.41	41	118358	10.49	ug/l	#	52
21) 2-Butanone	18.41	43	50671	5.14	ug/l	#	1
24) 1,2-Dichloroethane	20.06	62	187095	3.73	ug/l	#	1
26) Propionitrile	17.96	54	5968	3.30	ug/l	#	61
30) Isobutanol	19.12	43	18279	26.79	ug/l	#	1
35) Benzene	19.46	78	95682	0.89	ug/l		100
45) 4-Methyl-2-Pentanone	22.95	43	14913	0.66	ug/l	#	1
57) 1,2,3-Trichloropropane	28.65	75	2049763	33.54	ug/l	#	51

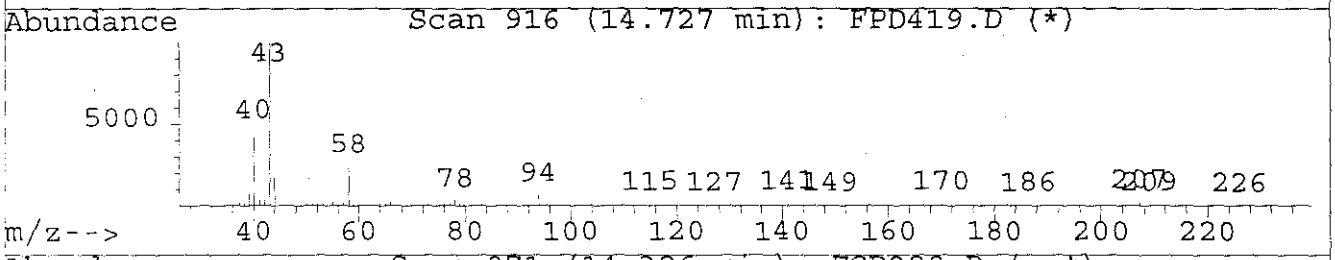
(#) = qualifier out of range (m) = manual integration

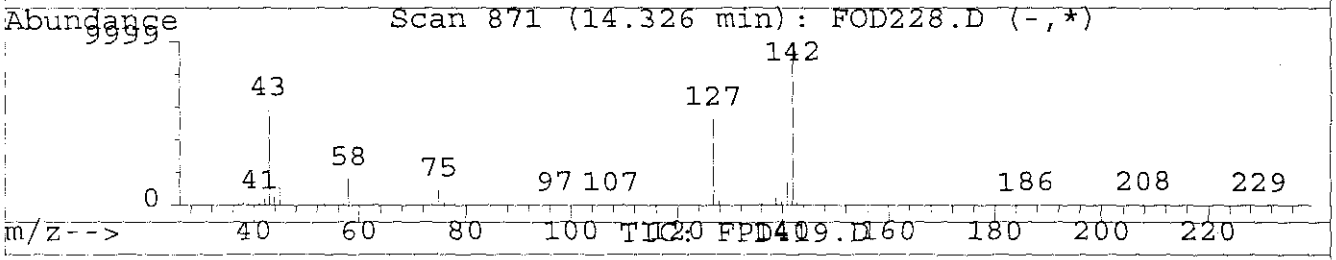
Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR1995A\FPD419.D Vial: 15
Acq On : 19 Apr 95 11:22 pm Operator:
Sample : 95GVF103-MB1 FNB419 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS Multiplr: 1.00
Quant Time: Apr 20 0:13 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 19 22:10:43 1995
Response via : Single Level Calibration







(10) Acetone (T)
14.73min 12.52ug/l m
response 96591

Ion	Exp%	Act%
43.00	100	100
58.00	28.00	24.42
0.00	0.00	0.00
0.00	0.00	0.00

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\APR1995A\FPD419.D
Acq On : 19 Apr 95 11:22 pm
Sample : 95GVF103-MB1 FNB419
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS

Vial: 15
Operator:
Inst : inst #6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Library : NBS75K.L

No Library Search Compounds Detected

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL Lab Sample ID: 95GVF109-MB1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: FPA423

Level: (low/med) LOW Date Received: 04/23/95

% Moisture: not dec. 0 Date Analyzed: 04/23/95

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	9	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL Lab Sample ID: 95GVF109-MB1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: FPA423

Level: (low/med) LOW Date Received: 04/23/95

% Moisture: not dec. 0 Date Analyzed: 04/23/95

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	20	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	50	U
107-05-1	3-Chloropropene	20	U
126-98-7	Methacrylonitrile	20	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2000	U
106-93-4	1,2-Dibromoethane	20	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	20	U
97-63-2	Ethylmethacrylate	20	U
76-01-7	Pentachloroethane	20	U

1E

VOLATILE ORGANICS ANALYSIS SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

VBLK

Lab Name: Roy F. Weston, Inc. Work Order: NONE

Client: LAB

Matrix: SOIL

Lab Sample ID: 95GVF109-MB1

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: FPA423

Level: (low/med) LOW

Date Received: 04/23/95

% Moisture: not dec. 0

Date Analyzed: 04/23/95

Column: (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 3

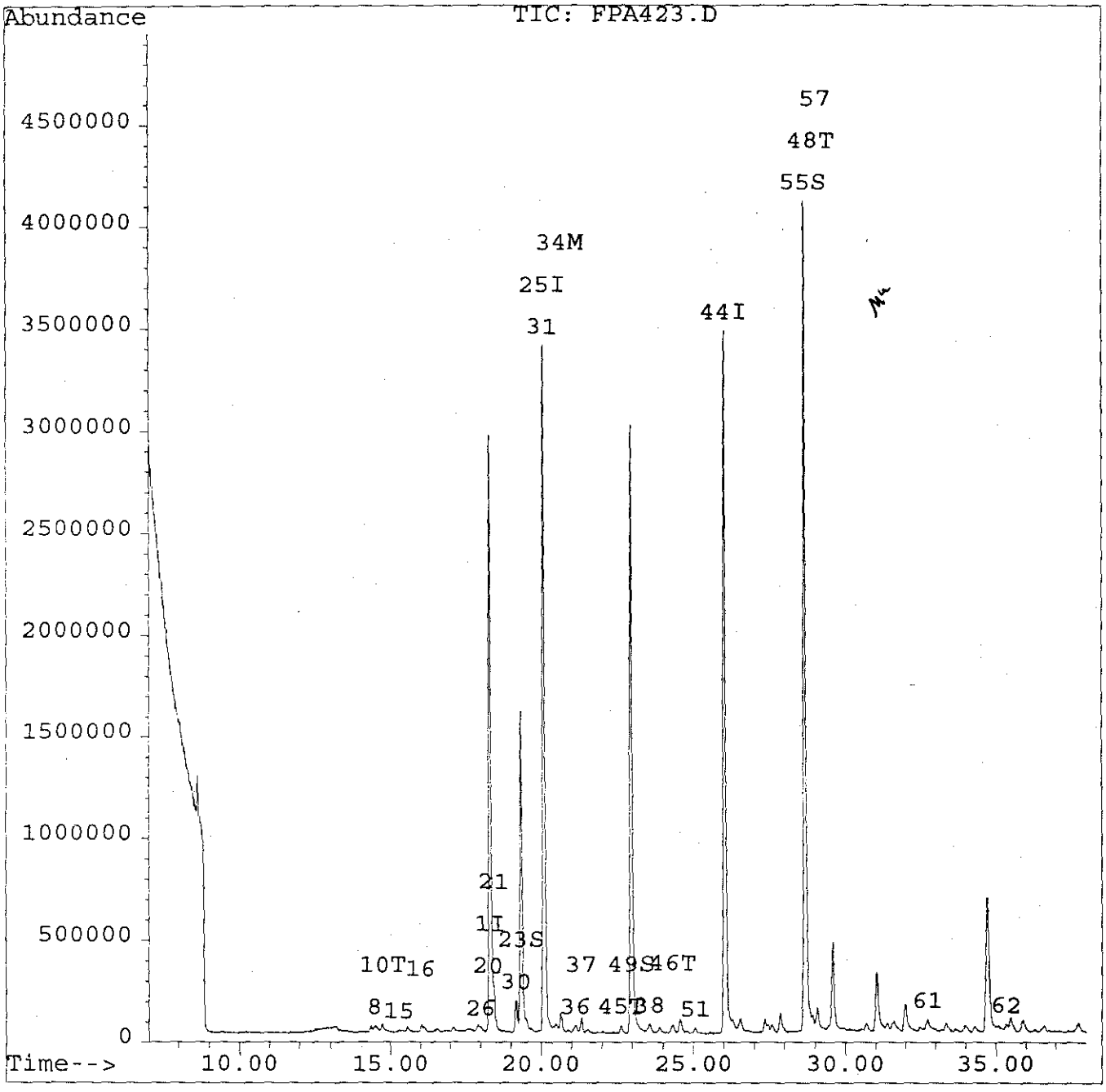
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		SUBST KETONE	29.59	6	J
2.		UNKNOWN	31.02	6	J
3.		UNKNOWN	34.72	10	J

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2395\FPA423.D Vial: 6
Acq On : 23 Apr 95 8:15 pm Operator:
Sample : 95GVF109-MB1 FNA423 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS Multiplr: 1.00
Quant Time: Apr 23 20:54 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Apr 23 19:56:50 1995
Response via : Single Level Calibration



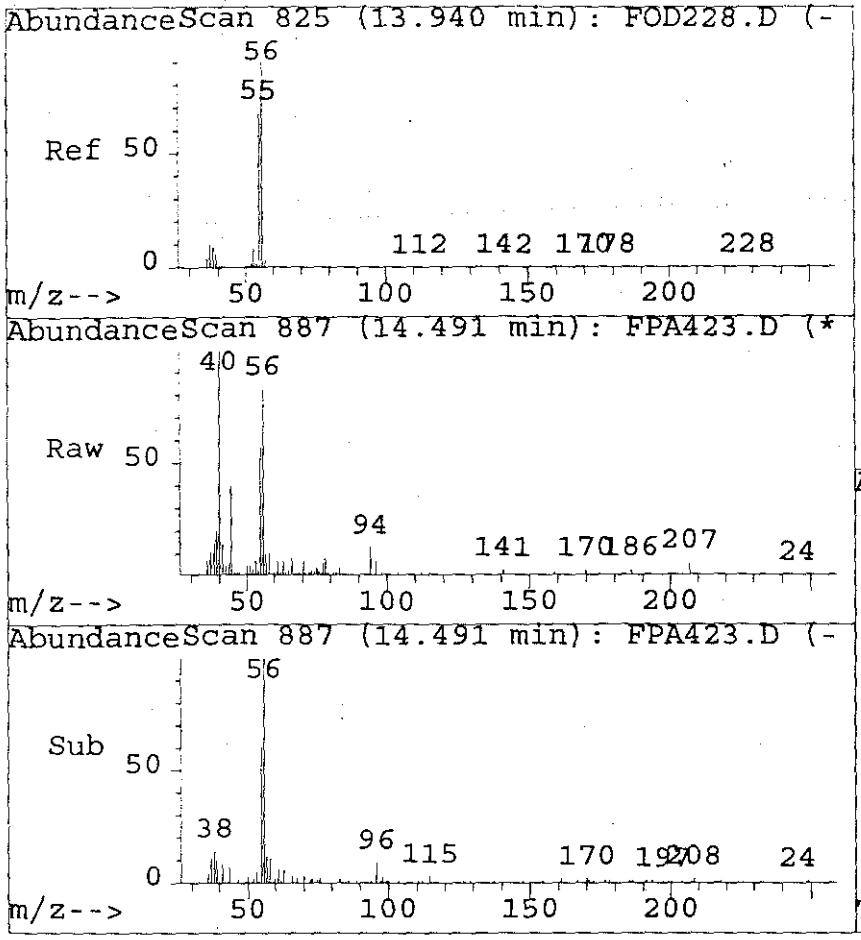
Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2395\FPA423.D Vial: 6
Acq On : 23 Apr 95 8:15 pm Operator:
Sample : 95GVF109-MB1 FNA423 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS Multiplr: 1.00
Quant Time: Apr 23 20:54 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Apr 23 19:56:50 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	18.33	128	1836131	50.00	ug/l		-0.02
25) 1,4-Difluorobenzene	20.10	114	6420425	50.00	ug/l		-0.02
44) Chlorobenzene-d5	26.04	117	5237520	50.00	ug/l		-0.01
System Monitoring Compounds							%Recovery
23) 1,2-Dichloroethane-d4	19.36	65	2696406	52.14	ug/l		104.28%
49) Toluene-d8	22.98	98	5112933	48.27	ug/l		96.53%
55) Bromofluorobenzene	28.67	95	4567974	50.26	ug/l		100.52%
Target Compounds							Qvalue
8) Acrolein	14.49	56	27596	5.12	ug/l		84
10) Acetone	14.74	43	128793	8.90	ug/l		70
15) Acetonitrile	15.30	41	24649	1.13	ug/l	#	51
16) Acrylonitrile	16.02	53	23345	2.52	ug/l	#	85
20) Methacrylonitrile	18.26	41	21785	0.87	ug/l		88
21) 2-Butanone	18.46	43	68976	3.08	ug/l	#	1
26) Propionitrile	18.02	54	33127	10.38	ug/l	#	61
30) Isobutanol	19.18	43	284068	149.06	ug/l	#	96
31) Crotononitrile	20.10	67	24550	7.02	ug/l	#	1
34) Trichloroethene	20.67	130	80399	1.27	ug/l		94
36) Methylmethacrylate	21.16	41	59699	0.89	ug/l	#	38
37) Dibromomethane	21.33	174	63194	0.96	ug/l		85
38) Ethylmethacrylate	23.57	69	44540	0.63	ug/l	#	67
45) 4-Methyl-2-Pentanone	22.65	43	90091	1.81	ug/l		96
46) 2-Hexanone	24.33	43	76026	2.20	ug/l	#	81
48) 1,1,2,2-Tetrachloroethane	28.92	83	47620	0.61	ug/l	#	95
51) 1,2-Dibromoethane	25.07	107	52637	0.57	ug/l		100
57) 1,2,3-Trichloropropane	29.06	75	123965	1.36	ug/l	#	92
61) 1,2-Dichlorobenzene	32.73	146	63029	0.75	ug/l	#	62
62) 1,2-Dibromo-3-chloropropan	35.34	157	13872	1.15	ug/l		92

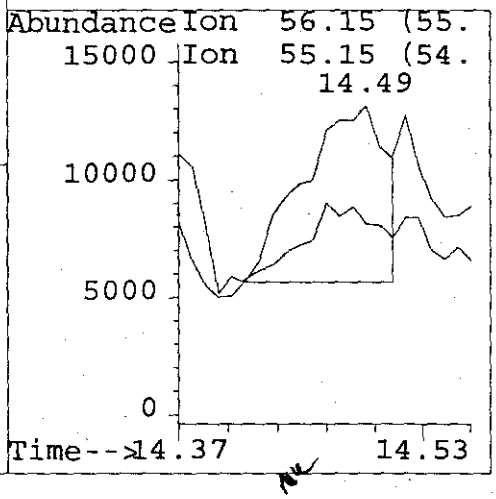
(#) = qualifier out of range (m) = manual integration

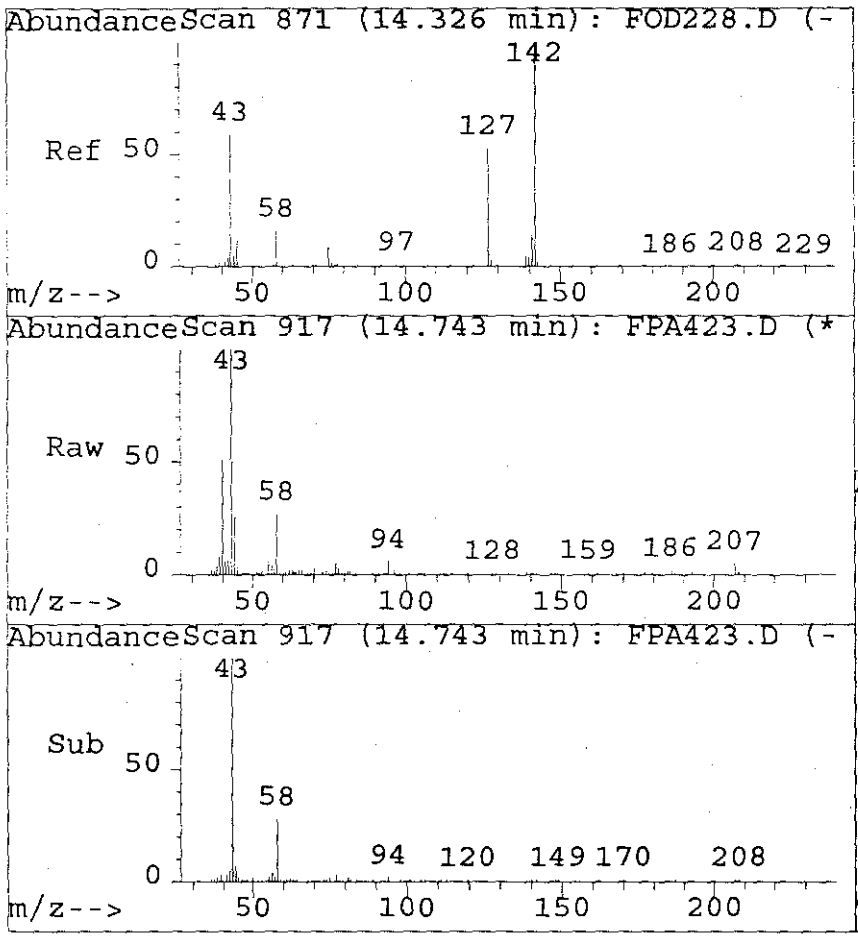


#8
Acrolein
Concen: 5.12 ug/l
RT: 14.49 min Scan# 887
Delta R.T. 0.14 min
Lab File: FPA423.D
Acq: 23 Apr 95 8:15 pm

Tgt Ion:56.15 Resp: 27596

Ion	Ratio	Lower	Upper
56	100		
55	56.6	56.1	84.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

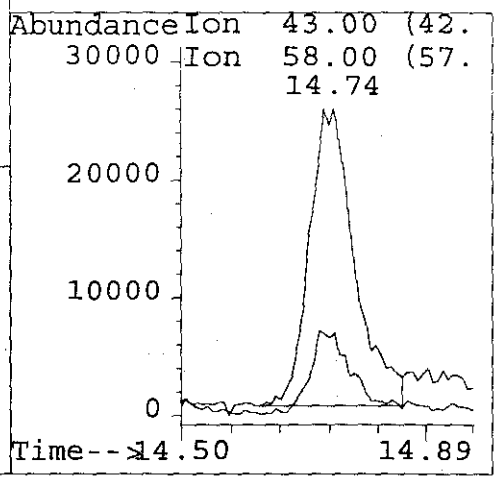




#10
Acetone
Concen: 8.90 ug/l
RT: 14.74 min Scan# 917
Delta R.T. -0.01 min
Lab File: FPA423.D
Acq: 23 Apr 95 8:15 pm

Tgt Ion:43 Resp: 128793

Ion	Ratio	Lower	Upper
43	100		
58	12.0	8.0	48.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0



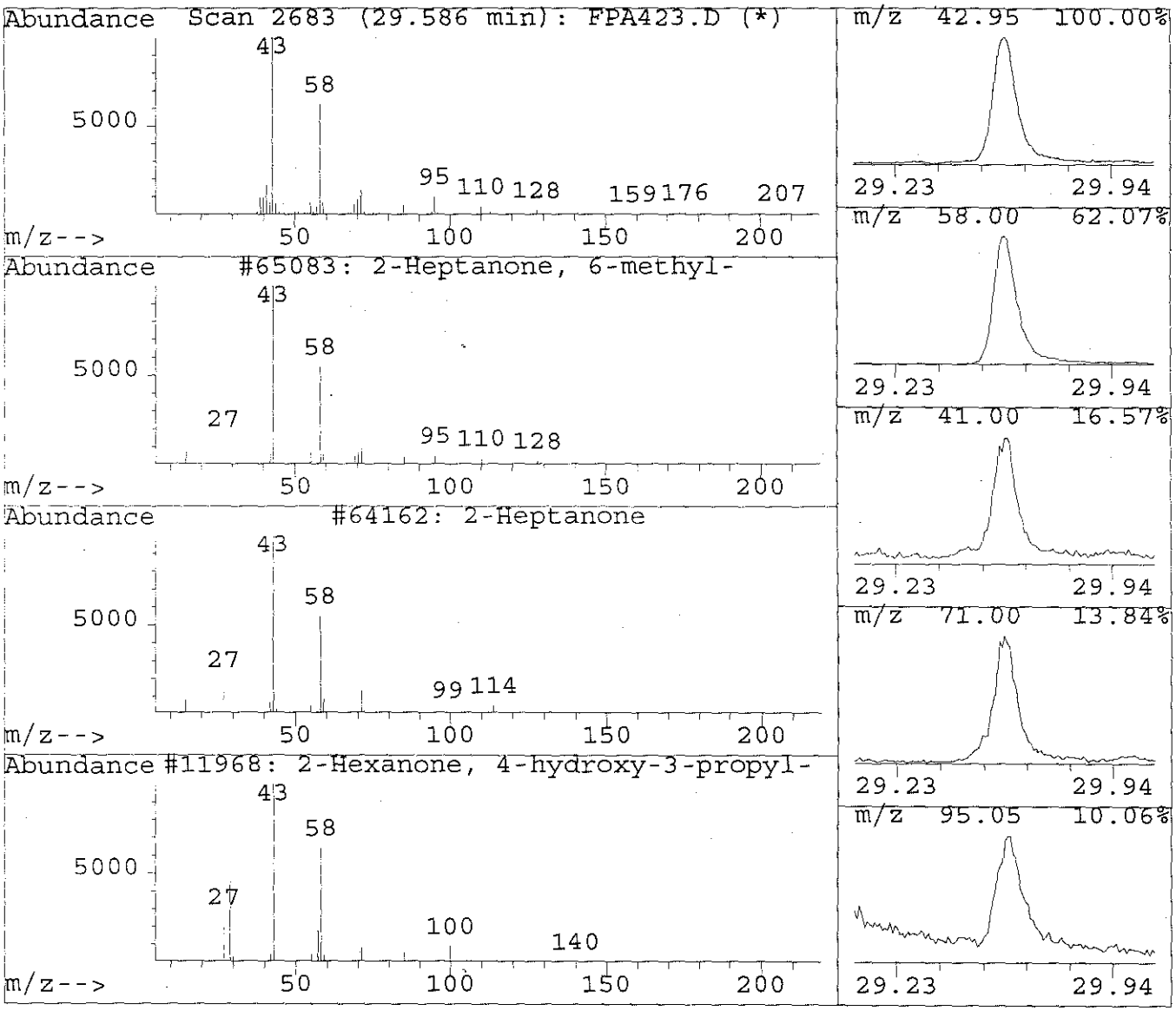
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\APR2395\FPA423.D Vial: 6
Acq On : 23 Apr 95 8:15 pm Operator:
Sample : 95GVF109-MB1 FNA423 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Library : D:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
29.59	6.37 ug/l	2233556	Chlorobenzene-d5	26.04

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	2-Heptanone, 6-methyl-	65083	000928-68-7	91
2	2-Heptanone	64162	000110-43-0	59
3	2-Hexanone, 4-hydroxy-3-propyl-	11968	062338-17-4	59
4	2-Octanone	65043	000111-13-7	53
5	2-Isopropyl-5-oxohexanal	11429	015303-46-5	45



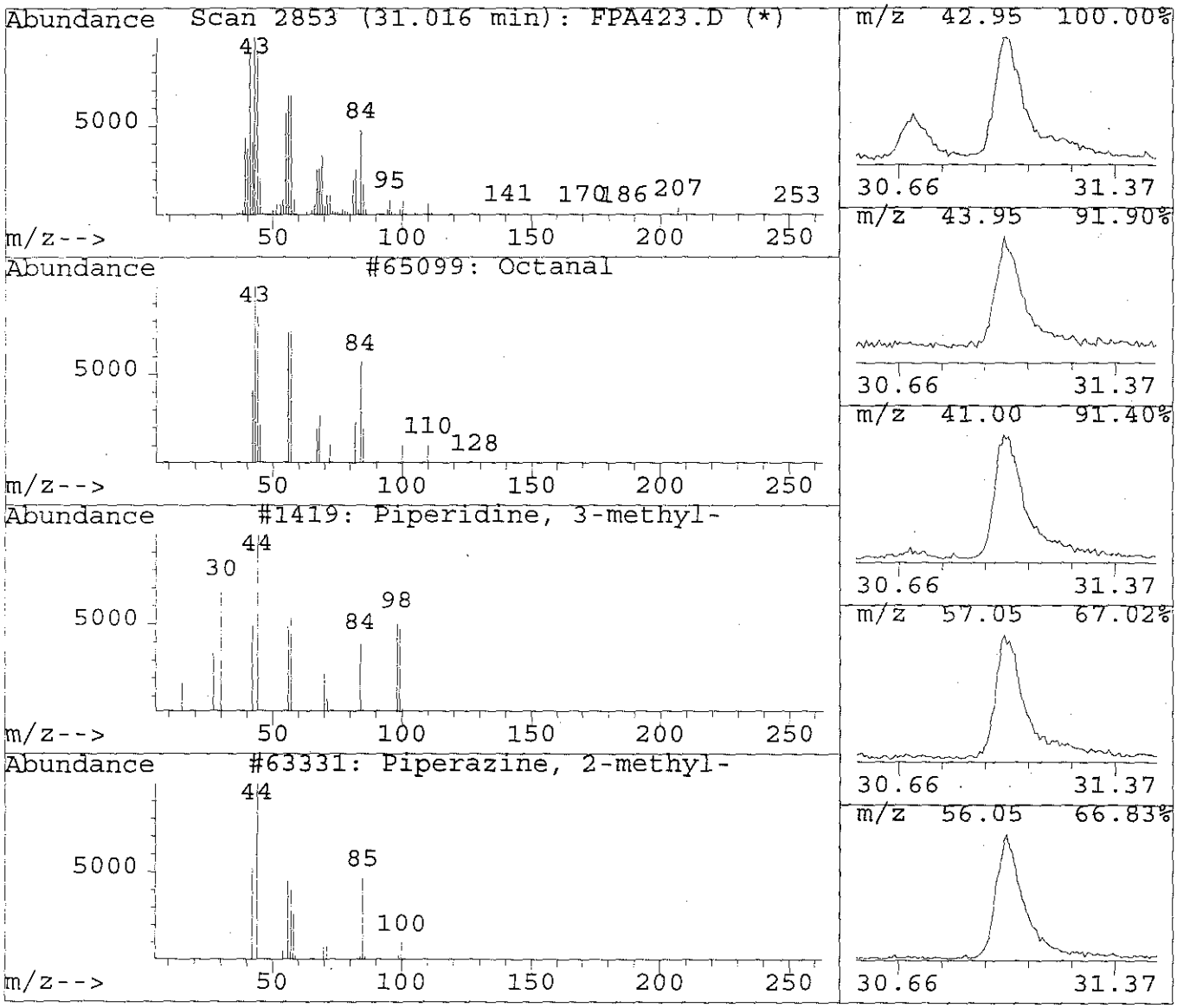
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\APR2395\FPA423.D Vial: 6
Acq On : 23 Apr 95 8:15 pm Operator:
Sample : 95GVF109-MB1 FNA423 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Library : D:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
31.02	5.74 ug/l	2012532	Chlorobenzene-d5	26.04

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Octanal	65099	000124-13-0	94
2	Piperidine, 3-methyl-	1419	000626-56-2	58
3	Piperazine, 2-methyl-	63331	000109-07-9	38
4	1-Pentene, 2-methyl-	62769	000763-29-1	25
5	1-Hexene	62754	000592-41-6	22



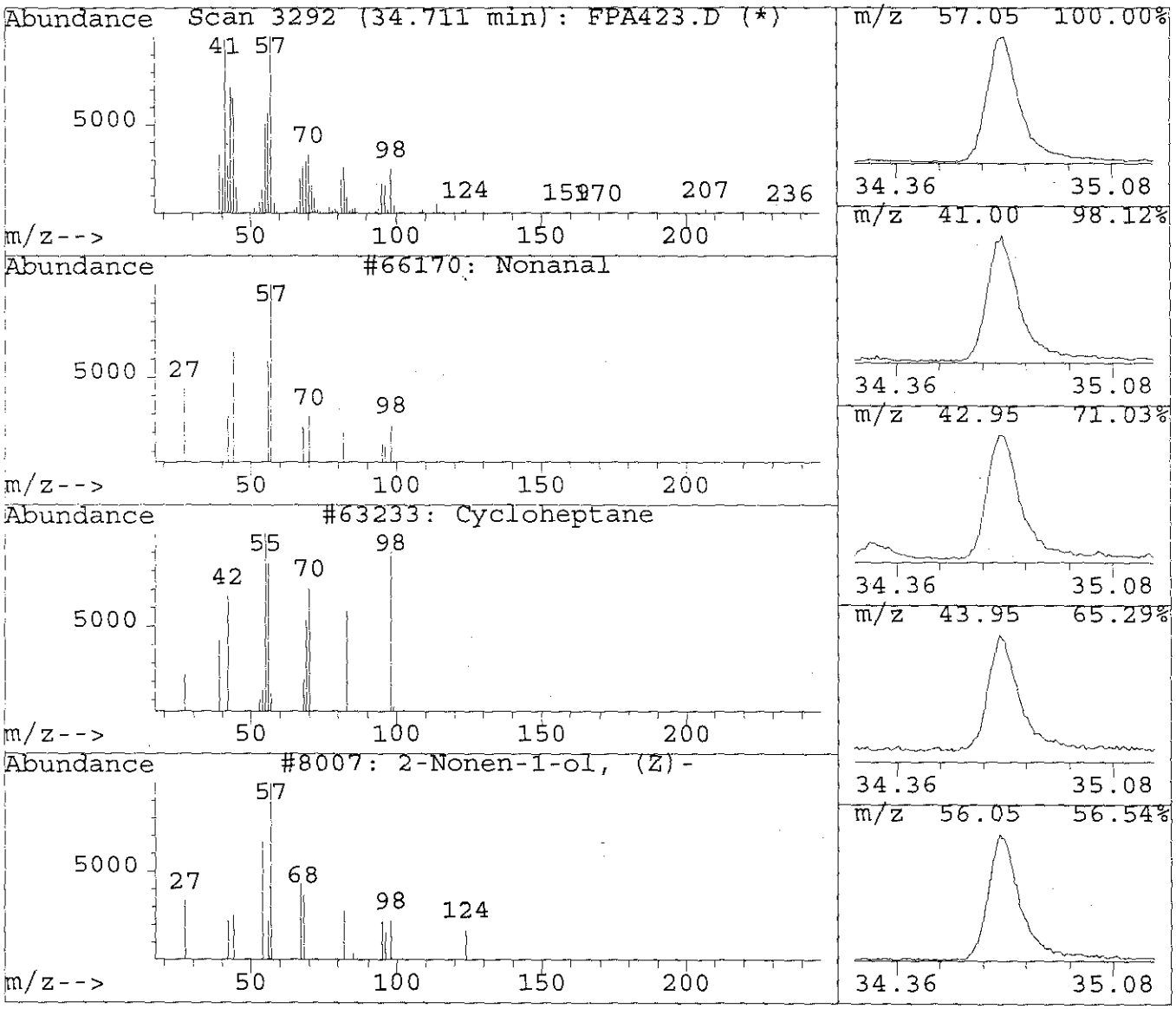
Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\APR2395\FPA423.D Vial: 6
Acq On : 23 Apr 95 8:15 pm Operator:
Sample : 95GVF109-MB1 FNA423 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Library : D:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
34.72	14.16 ug/l	4967022	Chlorobenzene-d5	26.04

Hit# of 20	Tentative ID	Ref#	CAS#	Qual
1	Nonanal	66170	000124-19-6	87
2	Cycloheptane	63233	000291-64-5	30
3	2-Nonen-1-ol, (Z)-	8007	041453-56-9	30
4	2-Nonen-1-ol, (E)-	8032	031502-14-4	30
5	Heptane, 2-chloro-	65491	001001-89-4	27



1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-GWSMS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-001 MS

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BWKV06

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. _____

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane		E
540-59-0	1,2-Dichloroethene (total)	150	
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane		E
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	71	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

S: SPIKE COMPOUND

FORM 1 V-1

12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-GWSMS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-001 MS

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BWKV06

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. ____

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	20	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	50	U
107-05-1	3-Chloropropene	20	U
126-98-7	Methacrylonitrile	20	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2000	U
106-93-4	1,2-Dibromoethane	20	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	20	U
97-63-2	Ethylmethacrylate	20	U
76-01-7	Pentachloroethane	20	U

S: SPIKE COMPOUND

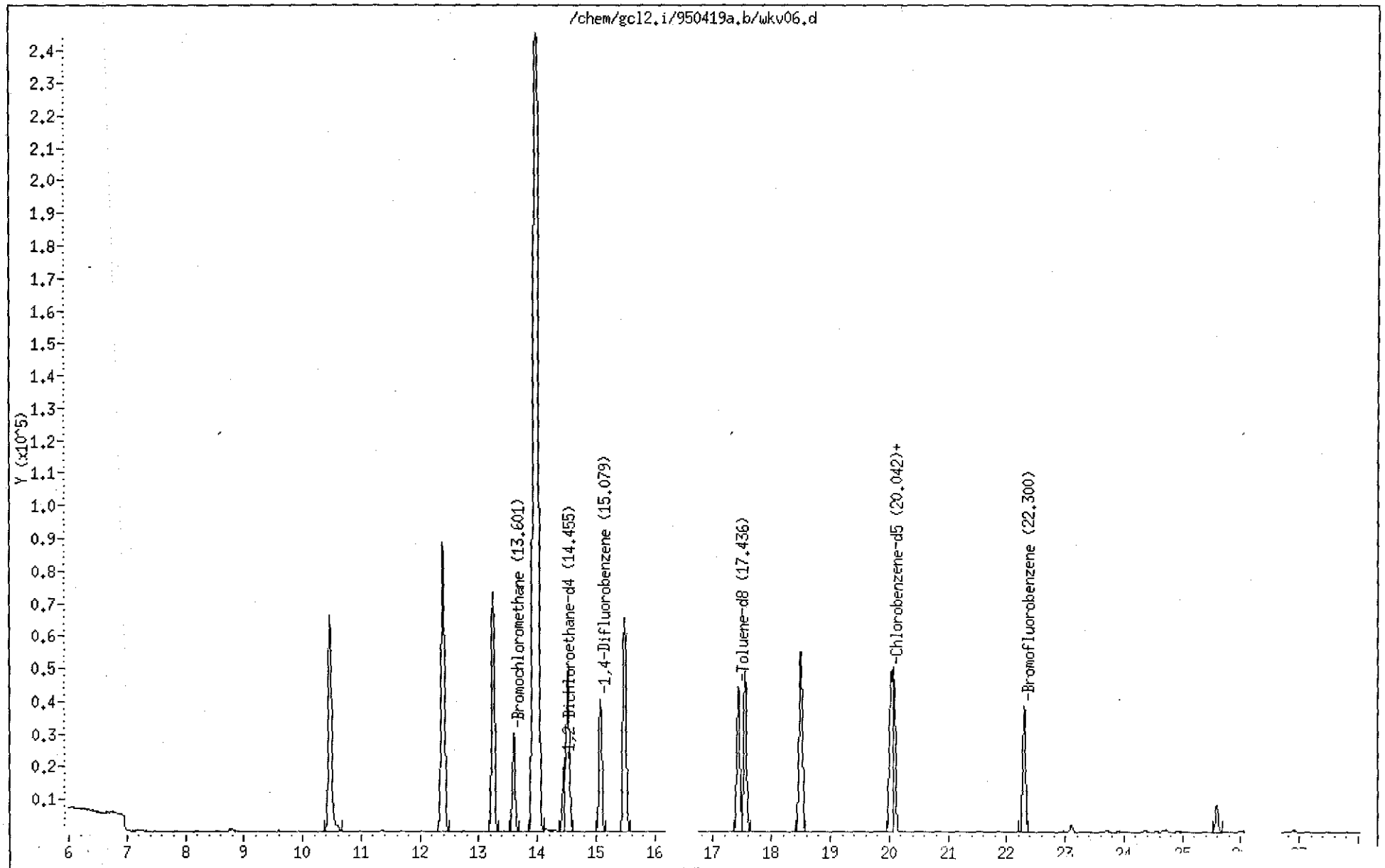
FORM 1 V-2

12/88 Rev.

Data File: /chem/gcl2.i/950419a.b/wkv06.d
Date : 20-APR-1995 02:08
Client ID:
Sample Info: 9504G211-001S BXC419
Purge Volume: 5.0
Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950419a.b/wkv06.d
Lab Smp Id:
Inj Date : 20-APR-1995 02:08
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 9504G211-001S BXC419
Misc Info : GCL#2,DIL=1,5ML SMP+5ULIS,SS
Comment :
Method : /chem/gcl2.i/950419a.b/8240w2.m
Meth Date : 19-Apr-1995 22:11 petruszj Quant Type: ISTD
Cal Date : 19-APR-1995 21:30 Cal File: yc419.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * 1

Name	Value	Description
Uf	1.000	ng unit correction factor

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)	
	11 1,1-Dichloroethene	96.00	10.471	10.451	(0.770)	49781	167.2	167.2	in samp.
	19 1,1-Dichloroethane	63.00	12.393	12.383	(0.911)	181733	216.6	216.6	
	21 1,2-Dichloroethene (total)	96.00	13.244	13.246	(0.974)	54679	148.1	148.1	
	22 cis-1,2-Dichloroethene	96.00	13.244	13.246	(0.974)	54679	118.2	118.2	
*	27 Bromochloromethane	127.80	13.601	13.593	(1.000)	11370	50.00		
	29 1,1,1-Trichloroethane	97.00	13.989	13.960	(0.928)	470944	929.4	929.4	
	30 Carbon Tetrachloride	116.80	13.999	14.207	(0.928)	54176	119.0	119.0	
$	33 1,2-Dichloroethane-d4	65.00	14.455	14.445	(1.063)	22567	66.49	66.49	
	34 Benzene	78.00	14.524	14.525	(0.963)	74352	52.88	52.88	
*	36 1,4-Difluorobenzene	114.00	15.079	15.070	(1.000)	58627	50.00		
	38 Trichloroethene	130.00	15.495	15.486	(1.028)	46777	86.82	86.82	in samp.
	45 2-Nitropropane	43.00	17.555	17.231	(1.291)	1199	7.44	7.44	
$	46 Toluene-d8	98.00	17.436	17.439	(0.870)	55341	48.97	48.97	
	47 Toluene	91.00	17.555	17.558	(0.876)	66480	47.47	47.47	
	52 Tetrachloroethene	164.00	18.497	18.510	(0.923)	31659	71.19	71.19	
*	56 Chlorobenzene-d5	117.00	20.032	20.037	(1.000)	51375	50.00		
	57 Chlorobenzene	112.00	20.082	20.096	(1.002)	46619	46.11	46.11	
$	64 Bromofluorobenzene	95.00	22.300	22.307	(1.113)	31461	47.09	47.09	

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-GWSMSD

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-001 MSD

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BWKV07

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. _____

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane		E
540-59-0	1,2-Dichloroethene (total)	160	
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane		E
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	75	
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

S: SPIKE COMPOUND

FORM 1 V-1

12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG06-GWSMSD

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 9504G211-001 MSD

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BWKV07

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. _____

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	20	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	50	U
107-05-1	3-Chloropropene	20	U
126-98-7	Methacrylonitrile	20	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2000	U
106-93-4	1,2-Dibromoethane	20	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	20	U
97-63-2	Ethylmethacrylate	20	U
76-01-7	Pentachloroethane	20	U

S: SPIKE COMPOUND

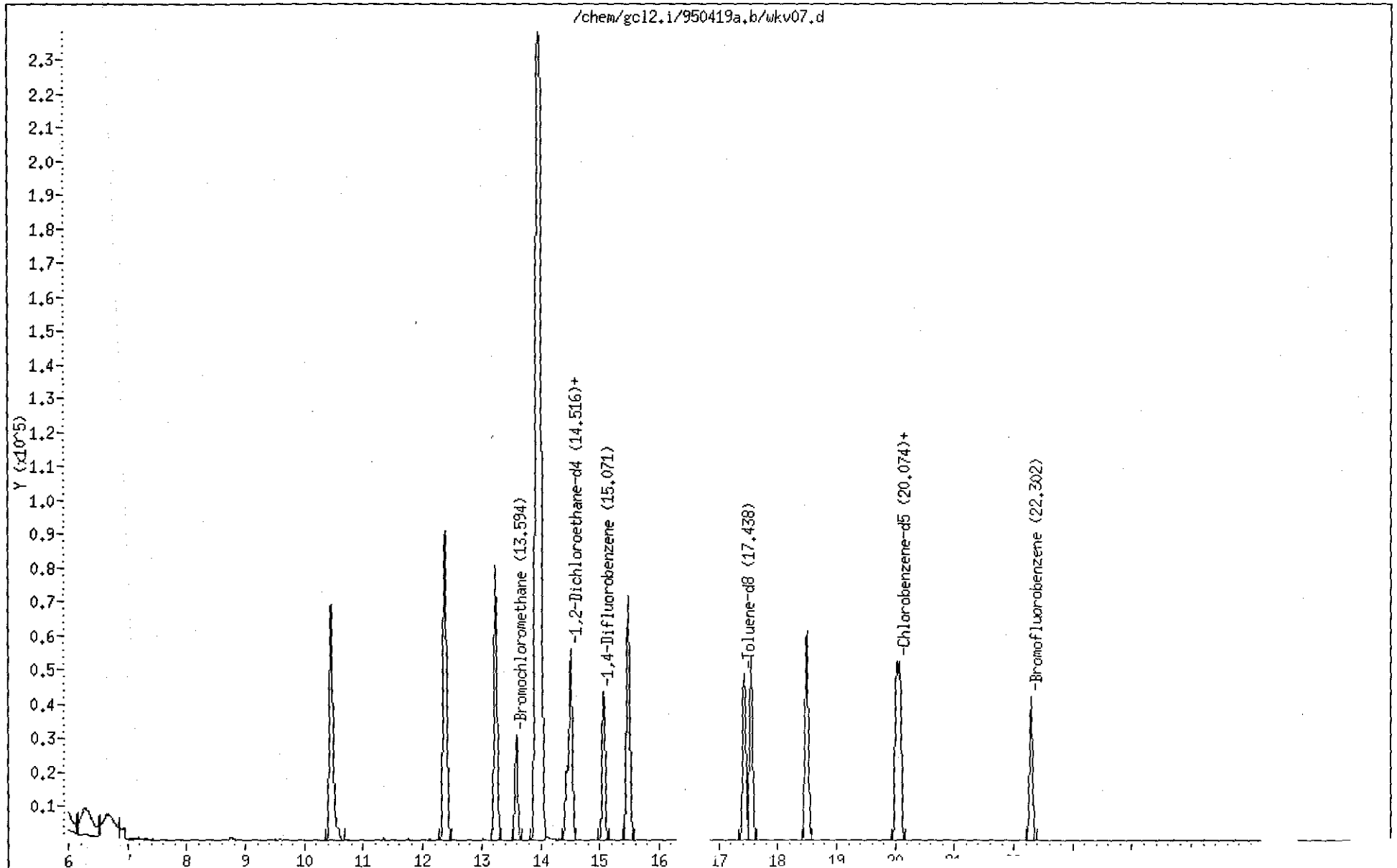
FORM 1 V-2

12/88 Rev.

Data File: /chem/gcl2.i/950419a.b/wkv07.d
Date : 20-APR-1995 02:43
Client ID:
Sample Info: 9504G211-001T BXC419
Purge Volume: 5.0
Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950419a.b/wkv07.d
Lab Smp Id:
Inj Date : 20-APR-1995 02:43
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 9504G211-001T BXC419
Misc Info : GCL#2,DIL=1,5ML SMP+5ULIS,SS
Comment :
Method : /chem/gcl2.i/950419a.b/8240w2.m
Meth Date : 19-Apr-1995 22:11 petruszj Quant Type: ISTD
Cal Date : 19-APR-1995 21:30 Cal File: yc419.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * 1

Name	Value	Description
Uf	1.000	ng unit correction factor

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	11 1,1-Dichloroethene	96.00	10.454	10.451	(0.769)	56827	186.2	186.2
	19 1,1-Dichloroethane	63.00	12.385	12.383	(0.911)	192260	223.6	223.6
	21 1,2-Dichloroethene (total)	96.00	13.237	13.246	(0.974)	59287	156.6	156.6
	22 cis-1,2-Dichloroethene	96.00	13.237	13.246	(0.974)	59287	125.0	125.0
*	27 Bromochloromethane	127.80	13.594	13.593	(1.000)	11655	50.00	
	29 1,1,1-Trichloroethane	97.00	13.981	13.960	(0.928)	467842	878.3	878.3
	30 Carbon Tetrachloride	116.80	13.941	14.207	(0.925)	25521	53.34	53.34
$	33 1,2-Dichloroethane-d4	65.00	14.447	14.445	(1.063)	24216	69.60	69.60
	34 Benzene	78.00	14.516	14.525	(0.963)	81021	54.82	54.82
*	36 1,4-Difluorobenzene	114.00	15.071	15.070	(1.000)	61628	50.00	
	38 Trichloroethene	130.00	15.487	15.486	(1.028)	50536	89.23	89.23
	45 2-Nitropropane	43.00	17.557	17.231	(1.292)	1240	7.50	7.50
$	46 Toluene-d8	98.00	17.428	17.439	(0.870)	61226	52.98	52.98
	47 Toluene	91.00	17.548	17.558	(0.876)	72427	50.57	50.57
	52 Tetrachloroethene	164.00	18.499	18.510	(0.924)	33884	74.51	74.51
*	56 Chlorobenzene-d5	117.00	20.024	20.037	(1.000)	52534	50.00	
	57 Chlorobenzene	112.00	20.084	20.096	(1.003)	49238	47.62	47.62
$	64 Bromofluorobenzene	95.00	22.302	22.307	(1.114)	34652	50.72	50.72

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG07-SBDMS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL

Lab Sample ID: 9504G211-015 MS

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BWKV14

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. 4

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

S: SPIKE COMPOUND FORM 1 V-1 12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG07-SBDMS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL Lab Sample ID: 9504G211-015 MS

Sample wt/vol: 5.0 (g/mL) G Lab File ID: BWKV14

Level: (low/med) LOW Date Received: 04/10/95

% Moisture: not dec. 4 Date Analyzed: 04/20/95

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	
107-02-8	Acrolein	520	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	21	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	52	U
107-05-1	3-Chloropropene	21	U
126-98-7	Methacrylonitrile	21	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2100	U
106-93-4	1,2-Dibromoethane	21	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	21	U
96-12-8	1,2-Dibromo-3-chloropropane	21	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	21	U
97-63-2	Ethylmethacrylate	21	U
76-01-7	Pentachloroethane	21	U

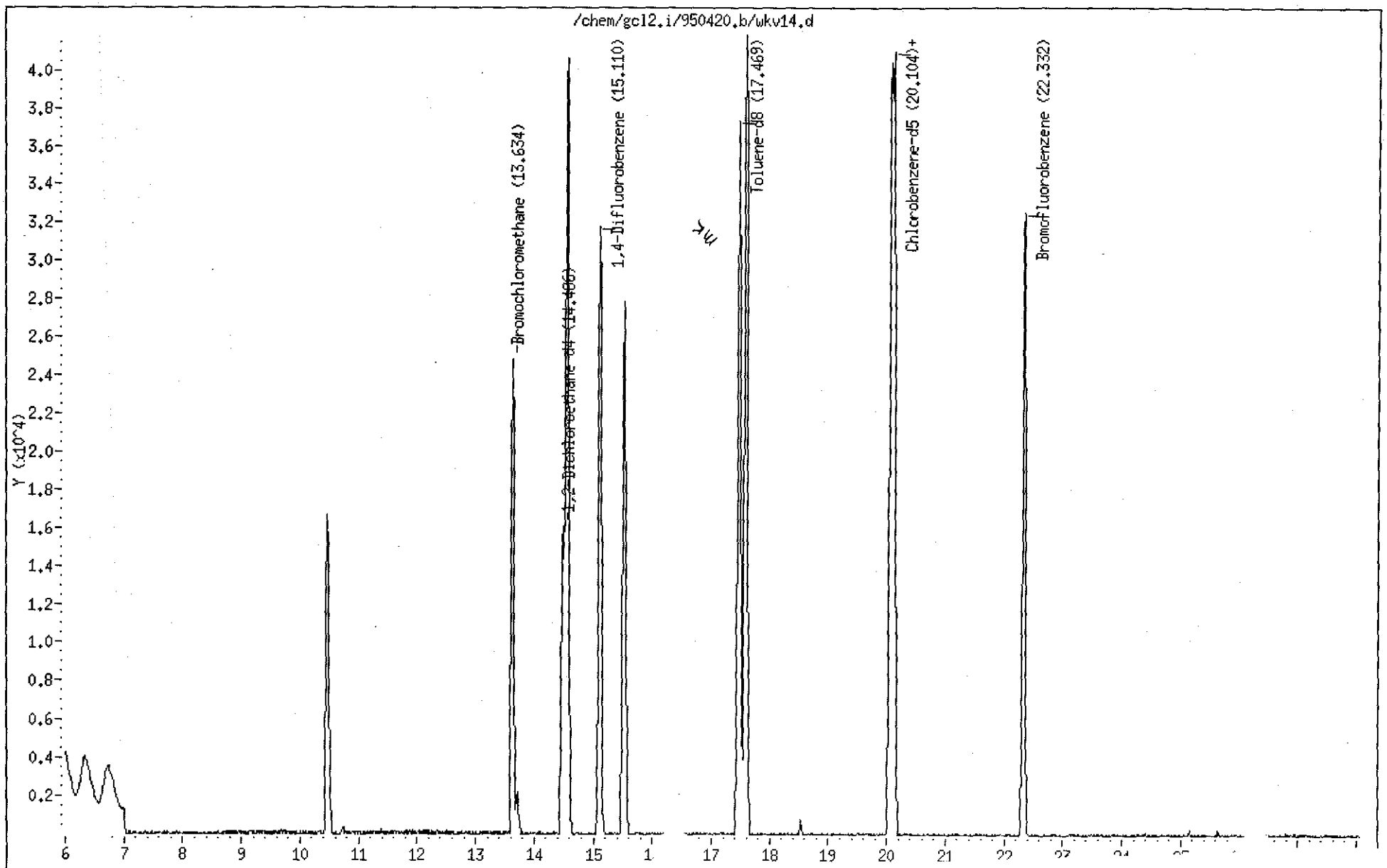
S: SPIKE COMPOUND FORM 1 V-2 12/88 Rev.

Data File: /chem/gcl2.i/950420.b/wkv14.d
Date : 20-APR-1995 16:05
Client ID:
Sample Info: 9504G211-015S BXA420

Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950420.b/wkv14.d
Lab Smp Id:
Inj Date : 20-APR-1995 16:05
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 9504G211-015S BXB420
Misc Info : GCL#2,DIL=1,5GSMP+5ULIS,SS+5MLOFW+10UL211
Comment :
Method : /chem/gcl2.i/950420.b/8240s2.m
Meth Date : 20-Apr-1995 11:24 petruszj Quant Type: ISTD
Cal Date : 20-APR-1995 10:30 Cal File: ya420.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12

mk

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
		1,1-Dichloroethene	96.00	10.472	10.460	(0.768)	12734	51.16	51.16
*	27	Bromochloromethane	127.80	13.634	13.591	(1.000)	10198	50.00	
$	33	1,2-Dichloroethane-d4	65.00	14.486	14.453	(1.062)	16656	53.82	53.82
	34	Benzene	78.00	14.556	14.523	(0.963)	61283	49.92	49.92
*	37	1,4-Difluorobenzene	114.00	15.110	15.078	(1.000)	48584	50.00	
	38	Trichloroethene	130.00	15.517	15.484	(1.027)	20470	43.75	43.75
	44	2-Nitropropane	43.00	17.588	17.229	(1.290)	894	4.81	4.81
$	47	Toluene-d8	98.00	17.469	17.437	(0.871)	47218	50.22	50.22
	48	Toluene	91.00	17.578	17.556	(0.877)	59136	50.67	50.67
*	56	Chlorobenzene-d5	117.00	20.054	20.033	(1.000)	42254	50.00	
	57	Chlorobenzene	112.00	20.114	20.093	(1.003)	40537	47.12	47.12
$	64	Bromofluorobenzene	95.00	22.332	22.313	(1.114)	26647	46.33	46.33

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG07-SBDMSD

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL

Lab Sample ID: 9504G211-015 MSD

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BWKV15

Level: (low/med) LOW

Date Received: 04/10/95

% Moisture: not dec. 4

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

S: SPIKE COMPOUND

FORM 1 V-1

12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

TC2-BG07-SBDMSD

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL Lab Sample ID: 9504G211-015 MSD

Sample wt/vol: 5.0 (g/mL) G Lab File ID: BWKV15

Level: (low/med) LOW Date Received: 04/10/95

% Moisture: not dec. 4 Date Analyzed: 04/20/95

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	
107-02-8	Acrolein	520	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	21	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	52	U
107-05-1	3-Chloropropene	21	U
126-98-7	Methacrylonitrile	21	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2100	U
106-93-4	1,2-Dibromoethane	21	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	21	U
96-12-8	1,2-Dibromo-3-chloropropane	21	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	21	U
97-63-2	Ethylmethacrylate	21	U
76-01-7	Pentachloroethane	21	U

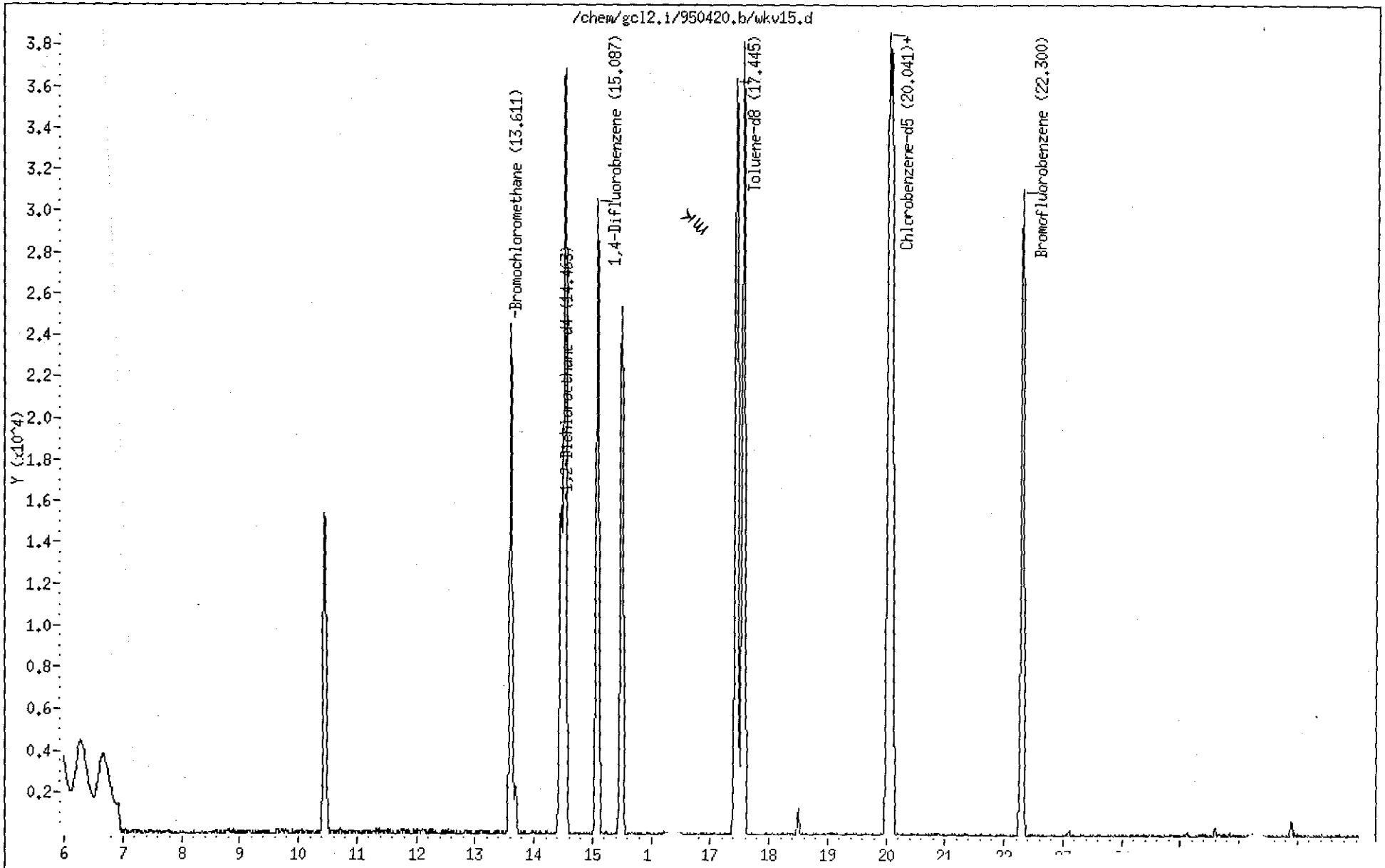
S: SPIKE COMPOUND FORM 1 V-2 12/88 Rev.

Data File: /chem/gcl2.i/950420.b/wkv15.d
Date : 20-APR-1995 16:42
Client ID:
Sample Info: 9504G211-015T BXA420

Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER Lab Sample ID: 95GVB090-MB1 BS

Sample wt/vol: 5 (g/mL) ML Lab File ID: BZG419

Level: (low/med) LOW Date Received: 04/19/95

% Moisture: not dec. _____ Date Analyzed: 04/20/95

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

S: SPIKE COMPOUND FORM 1 V-1 12/88 Rev.

Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950420.b/wkv15.d
Lab Smp Id:
Inj Date : 20-APR-1995 16:42
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 9504G211-015T BXB420
Misc Info : GCL#2,DIL=1,5GSMP+5ULIS,SS+5MLOFW+10UL211
Comment :
Method : /chem/gcl2.i/950420.b/8240s2.m
Meth Date : 20-Apr-1995 11:24 petruszj Quant Type: ISTD
Cal Date : 20-APR-1995 10:30 Cal File: ya420.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	1,1-Dichloroethene	96.00	10.450	10.460	(0.768)	11474	47.96	47.96
* 27	Bromochloromethane	127.80	13.611	13.591	(1.000)	9801	50.00	
$ 33	1,2-Dichloroethane-d4	65.00	14.453	14.453	(1.062)	16531	55.58	55.58
34	Benzene	78.00	14.532	14.523	(0.963)	56459	48.38	48.38
* 37	1,4-Difluorobenzene	114.00	15.087	15.078	(1.000)	46185	50.00	
38	Trichloroethene	130.00	15.493	15.484	(1.027)	18163	40.84	40.84
44	2-Nitropropane	43.00	17.564	17.229	(1.290)	875	4.90	4.90
$ 47	Toluene-d8	98.00	17.445	17.437	(0.871)	46458	51.76	51.76
48	Toluene	91.00	17.564	17.556	(0.877)	53451	47.97	47.97
* 56	Chlorobenzene-d5	117.00	20.031	20.033	(1.000)	40341	50.00	
57	Chlorobenzene	112.00	20.091	20.093	(1.003)	36974	45.01	45.01
$ 64	Bromofluorobenzene	95.00	22.300	22.313	(1.113)	25790	46.97	46.97

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 95GVB090-MB1 BS

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BZG419

Level: (low/med) LOW

Date Received: 04/19/95

% Moisture: not dec. _____

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND		
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	20	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	50	U
107-05-1	3-Chloropropene	20	U
126-98-7	Methacrylonitrile	20	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2000	U
106-93-4	1,2-Dibromoethane	20	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	20	U
97-63-2	Ethylmethacrylate	20	U
76-01-7	Pentachloroethane	20	U

S: SPIKE COMPOUND

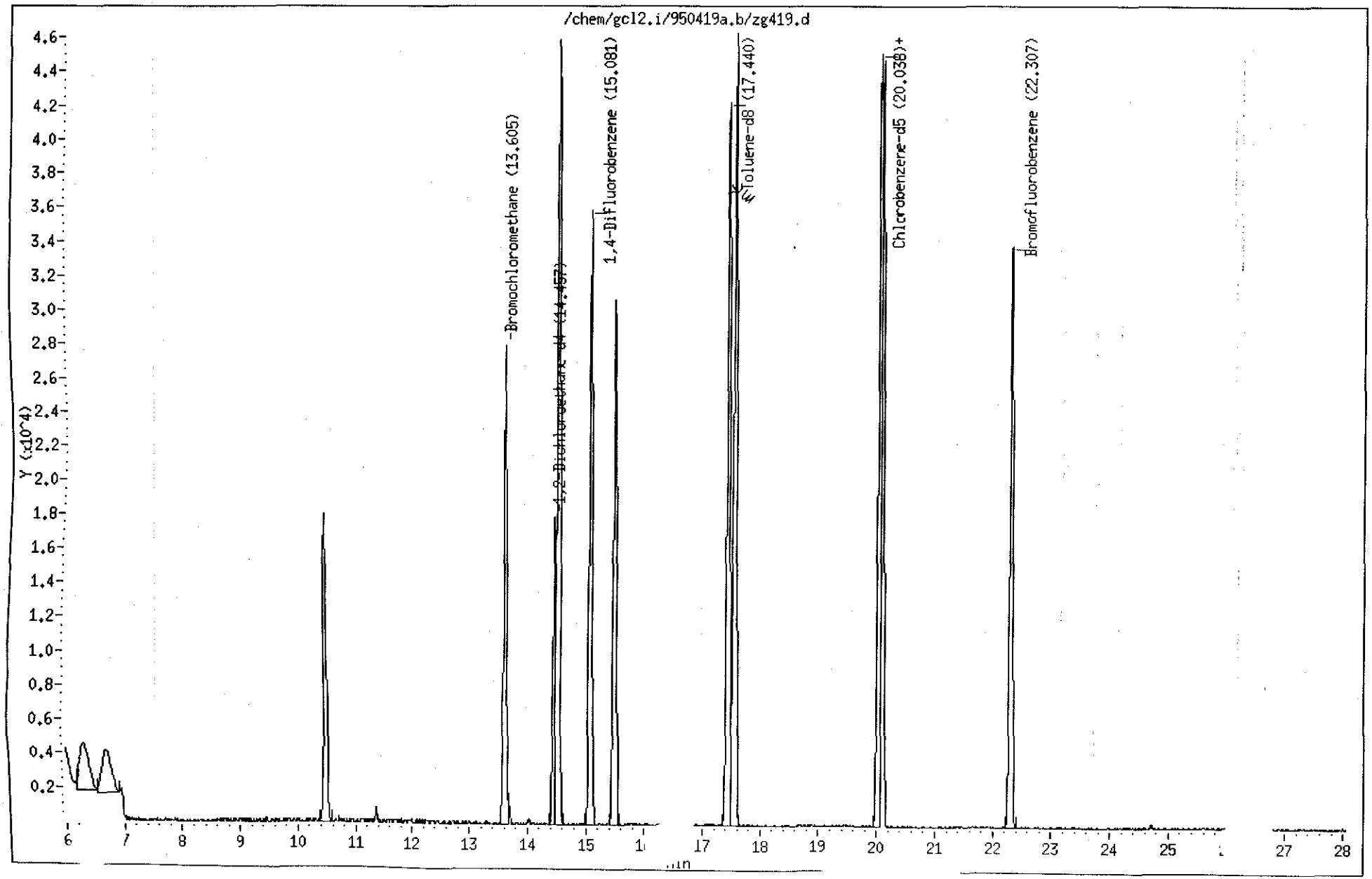
FORM 1 V-2

12/88 Rev.

Data File: /chem/gcl2.i/950419a.b/zg419.d
Date : 20-APR-1995 07:36
Client ID:
Sample Info: 95GVB090-MB1 BXC419
Purge Volume: 5.0
Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950419a.b/zg419.d
Lab Smp Id:
Inj Date : 20-APR-1995 07:36
Operator : MANAGER MS 5/5/95 4/30/95 Inst ID: gcl2.i
Smp Info : 95GVB090-MB1/T BXC419
Misc Info : GCL#2,DIL=1,5ML OFW +5UL IS,SS +10UL211
Comment :
Method : /chem/gcl2.i/950419a.b/8240w2.m
Meth Date : 19-Apr-1995 22:11 petruszj Quant Type: ISTD
Cal Date : 19-APR-1995 21:30 Cal File: yc419.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * 1

Name	Value	Description
Uf	1.000	ng unit correction factor

MK

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	11 1,1-Dichloroethene	96.00	10.466	10.451	(0.769)	13570	46.42	46.42
*	27 Bromochloromethane	127.80	13.605	13.593	(1.000)	11168	50.00	
$	33 1,2-Dichloroethane-d4	65.00	14.457	14.445	(1.063)	18305	54.90	54.90
	34 Benzene	78.00	14.527	14.525	(0.964)	68573	52.81	52.81
*	36 1,4-Difluorobenzene	114.00	15.071	15.070	(1.000)	54149	50.00	
	38 Trichloroethene	130.00	15.488	15.486	(1.028)	22281	44.77	44.77
	45 2-Nitropropane	43.00	17.550	17.231	(1.290)	1086	6.86	6.86
$	46 Toluene-d8	98.00	17.440	17.439	(0.871)	53444	52.26	52.26
	47 Toluene	91.00	17.550	17.558	(0.876)	64243	50.68	50.68
*	56 Chlorobenzene-d5	117.00	20.028	20.037	(1.000)	46495	50.00	
	57 Chlorobenzene	112.00	20.088	20.096	(1.003)	44089	48.18	48.18
$	64 Bromofluorobenzene	95.00	22.307	22.307	(1.114)	28568	47.25	47.25

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 95GVE116-MB1 BS

Sample wt/vol: 5 (g/mL) ML

Lab File ID: ECI421

Level: (low/med) LOW

Date Received: 04/21/95

% Moisture: not dec. _____

Date Analyzed: 04/22/95

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

S: SPIKE COMPOUND FORM 1 V-1 12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 95GVE116-MB1 BS

Sample wt/vol: 5 (g/mL) ML

Lab File ID: ECI421

Level: (low/med) LOW

Date Received: 04/21/95

% Moisture: not dec. _____

Date Analyzed: 04/22/95

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	20	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	50	U
107-05-1	3-Chloropropene	20	U
126-98-7	Methacrylonitrile	20	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2000	U
106-93-4	1,2-Dibromoethane	20	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	20	U
97-63-2	Ethylmethacrylate	20	U
76-01-7	Pentachloroethane	20	U

S: SPIKE COMPOUND

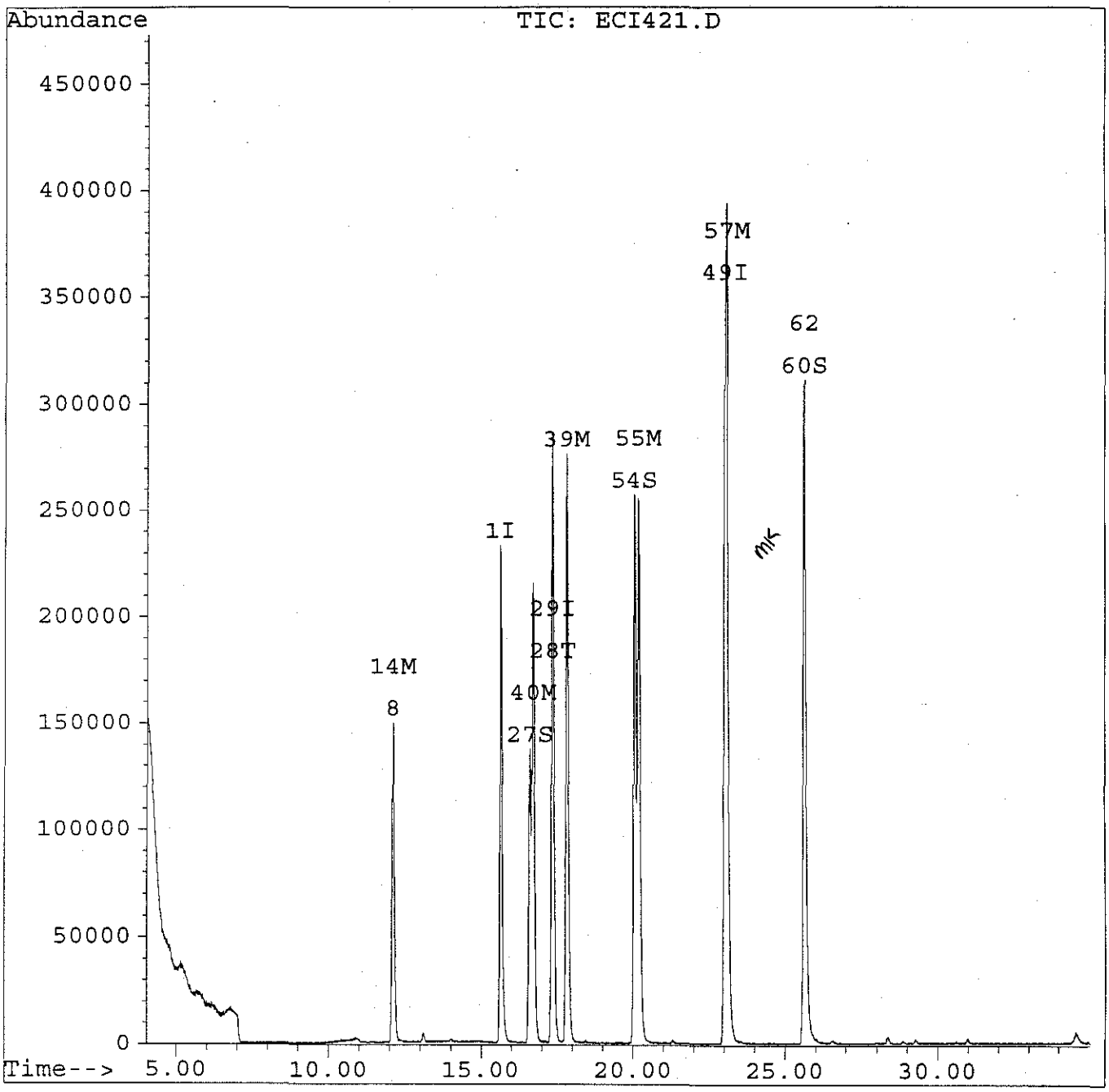
FORM 1 V-2

12/88 Rev.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2195A\ECI421.D Vial: 7
Acq On : 22 Apr 95 12:47 am Operator:
Sample : 95GVE116-MB1S EAB421 Inst : gcms5
Misc : GCL#5,DIL=1,5MLOFW+5ULIS,SS+10UL296 Multiplr: 1.00
Quant Time: Apr 22 1:47 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Apr 21 23:37:58 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2195A\ECI421.D Vial: 7
Acq On : 22 Apr 95 12:47 am Operator:
Sample : 95GVE116-MB1S EAB421 Inst : gcms5
Misc : GCL#5,DIL=1,5MLOFW+5ULIS,SS+10UL296 Multiplr: 1.00
Quant Time: Apr 22 1:47 1995

Method : C:\HPCHEM\1\METHODS\82405.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Apr 21 23:37:58 1995
Response via : Single Level Calibration

MLC

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	15.65	128	173095	50.00	ug/l		0.01
29) 1,4-Difluorobenzene	17.35	114	622229	50.00	ug/l		0.02
49) Chlorobenzene-d5	23.01	117	514220	50.00	ug/l		0.01
70) bromochloromethane	15.65	128	173095	0.00	ug/l		0.02
System Monitoring Compounds							%Recovery
27) 1,2-Dichloroethane-d4	16.61	65	276348	46.01	ug/l		92.03%
54) Toluene-d8	20.05	98	520856	48.39	ug/l		96.78%
60) Bromofluorobenzene	25.62	95	396655	46.57	ug/l		93.14%
Target Compounds							Qvalue
~~8)~~ Ethyl Ether	12.12	59	10307	4.41	ug/l	#	13
14) 1,1-Dichloroethene	12.12	96	161425	40.78	ug/l		94
~~28)~~ 1,2-Dichloroethane	17.35	62	23552	3.42	ug/l	#	9
39) Trichloroethene	17.83	130	270952	44.38	ug/l	m	1
40) Benzene	16.72	78	467204	48.41	ug/l	m	100
55) Toluene	20.18	92	322379	47.26	ug/l		96
57) Chlorobenzene	23.07	112	463516	46.51	ug/l		97
~~62)~~ 1,2,3-Trichloropropane	25.62	75	210610	30.06	ug/l	#	51

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

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER Lab Sample ID: 95GVB093-MB1 BS

Sample wt/vol: 5 (g/mL) ML Lab File ID: BZG420

Level: (low/med) LOW Date Received: 04/20/95

% Moisture: not dec. _____ Date Analyzed: 04/21/95

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

S: SPIKE COMPOUND FORM 1 V-1 12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: WATER

Lab Sample ID: 95GVB093-MB1 BS

Sample wt/vol: 5 (g/mL) ML

Lab File ID: BZG420

Level: (low/med) LOW

Date Received: 04/20/95

% Moisture: not dec.

Date Analyzed: 04/21/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	20	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	50	U
107-05-1	3-Chloropropene	20	U
126-98-7	Methacrylonitrile	20	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2000	U
106-93-4	1,2-Dibromoethane	20	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	20	U
97-63-2	Ethylmethacrylate	20	U
76-01-7	Pentachloroethane	20	U

S: SPIKE COMPOUND

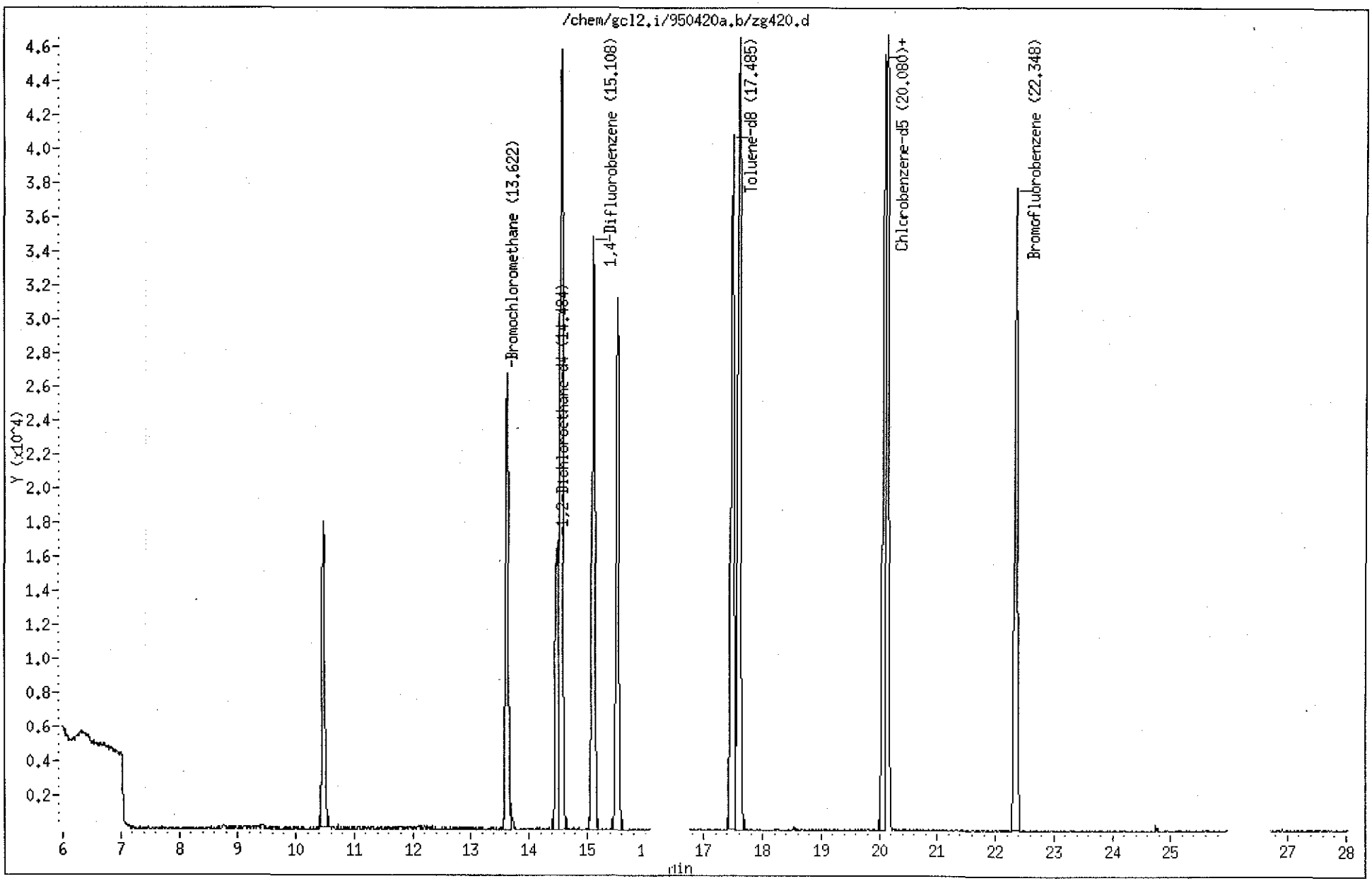
FORM 1 V-2

12/88 Rev.

Data File: /chem/gcl2.i/950420a.b/zg420.d
Date : 21-APR-1995 07:02
Client ID:
Sample Info: 95GVB093-MB1~~T~~ BXC420 S JSO 4/30/95
Purge Volume: 5.0
Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950420a.b/zg420.d
Lab Smp Id:
Inj Date : 21-APR-1995 07:02
Operator : MANAGER MS JSO 9/30/95 Inst ID: gcl2.i
Smp Info : 95GVB093-MB1~~T~~ BXC420
Misc Info : GCL#2,DIL=1,5MLSOFW+5ULIS,SS
Comment :
Method : /chem/gcl2.i/950420a.b/8240w2.m
Meth Date : 20-Apr-1995 21:32 petruszj Quant Type: ISTD
Cal Date : 20-APR-1995 20:38 Cal File: yb420.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * 1

Name	Value	Description
Uf	1.000	ng unit correction factor

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
11 1,1-Dichloroethene	96.00	10.472	10.473	(0.769)	13385	54.73	54.73
* 27 Bromochloromethane	127.80	13.622	13.624	(1.000)	10761	50.00	
$ 33 1,2-Dichloroethane-d4	65.00	14.484	14.476	(1.063)	18006	54.32	54.32
34 Benzene	78.00	14.553	14.546	(0.963)	68474	58.31	58.31
* 36 1,4-Difluorobenzene	114.00	15.108	15.100	(1.000)	52313	50.00	
38 Trichloroethene	130.00	15.524	15.517	(1.028)	22700	51.34	51.34
$ 46 Toluene-d8	98.00	17.475	17.460	(0.870)	52808	50.58	50.58
47 Toluene	91.00	17.594	17.569	(0.876)	64239	54.35	54.35
* 56 Chlorobenzene-d5	117.00	20.080	20.049	(1.000)	47342	50.00	
57 Chlorobenzene	112.00	20.129	20.099	(1.002)	46398	56.15	56.15
$ 64 Bromofluorobenzene	95.00	22.348	22.311	(1.113)	30439	50.15	50.15

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL

Lab Sample ID: 95GVF103-MB1 BS

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: FPE419

Level: (low/med) LOW

Date Received: 04/19/95

% Moisture: not dec. 0

Date Analyzed: 04/20/95

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	7	JB
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

S: SPIKE COMPOUND

FORM 1 V-1

12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL Lab Sample ID: 95GVF103-MB1 BS

Sample wt/vol: 5.0 (g/mL) G Lab File ID: FPE419

Level: (low/med) LOW Date Received: 04/19/95

% Moisture: not dec. 0 Date Analyzed: 04/20/95

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	20	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	50	U
107-05-1	3-Chloropropene	20	U
126-98-7	Methacrylonitrile	20	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2000	U
106-93-4	1,2-Dibromoethane	20	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	20	U
97-63-2	Ethylmethacrylate	20	U
76-01-7	Pentachloroethane	20	U

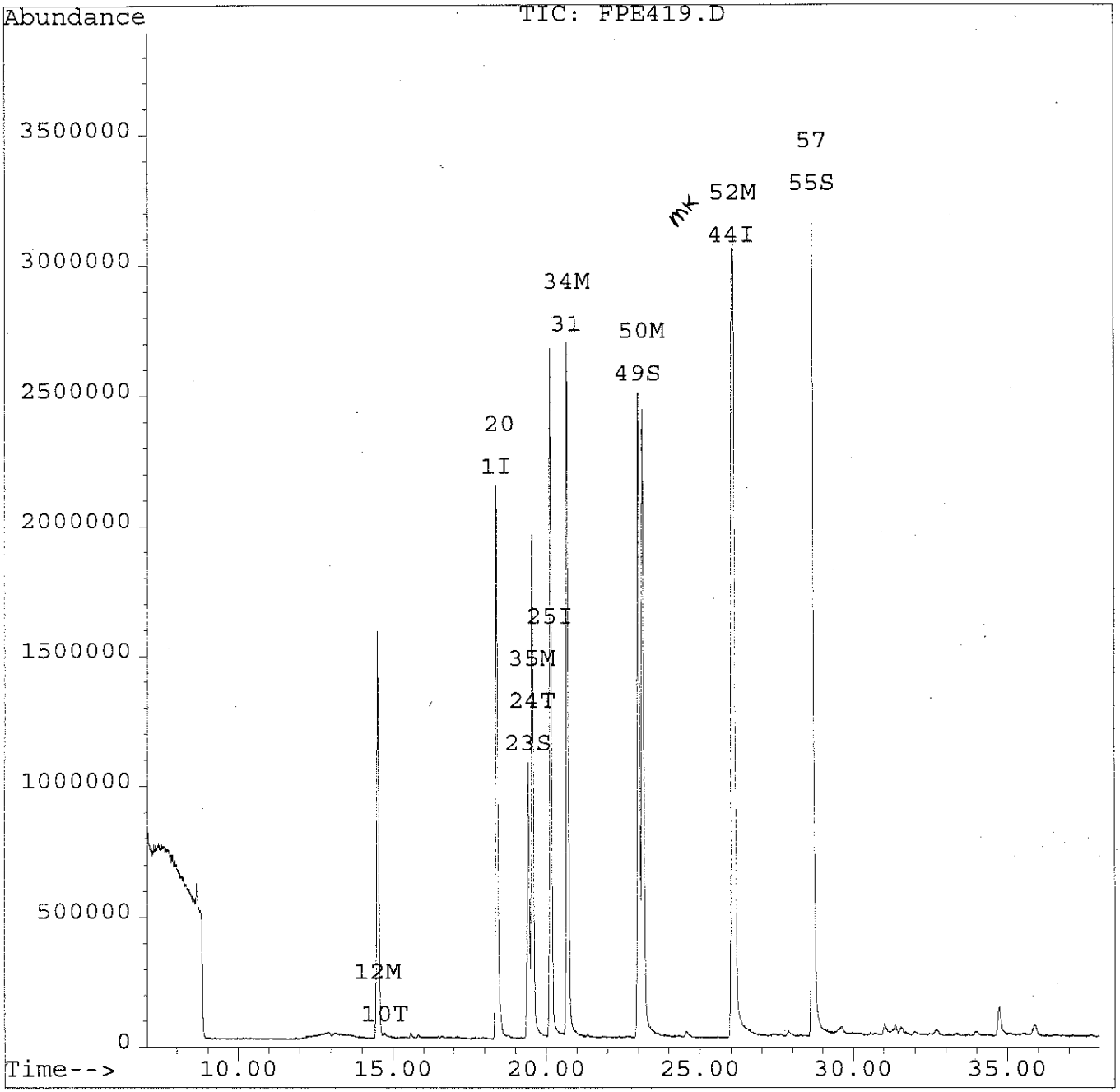
S: SPIKE COMPOUND FORM 1 V-2 12/88 Rev.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR1995A\FPE419.D
Acq On : 20 Apr 95 12:17 am
Sample : 95GVF103-MB1S FNB419
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS+10UL211
Quant Time: Apr 20 0:56 1995

Vial: 16
Operator:
Inst : inst #6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 19 22:10:43 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR1995A\FPE419.D Vial: 16
Acq On : 20 Apr 95 12:17 am Operator:
Sample : 95GVF103-MB1S FNB419 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS+10UL211 Multiplr: 1.00
Quant Time: Apr 20 0:56 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Wed Apr 19 22:10:43 1995
Response via : Single Level Calibration

mk

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	18.39	128	1403692	50.00	ug/l		0.07
25) 1,4-Difluorobenzene	20.14	114	5435127	50.00	ug/l		0.06
44) Chlorobenzene-d5	26.04	117	4553369	50.00	ug/l		0.02
System Monitoring Compounds							%Recovery
23) 1,2-Dichloroethane-d4	19.41	65	1751193	51.40	ug/l		102.80%
49) Toluene-d8	23.01	98	4627886	50.01	ug/l		100.03%
55) Bromofluorobenzene	28.66	95	3930023	51.40	ug/l		102.80%
Target Compounds							Qvalue
10) Acetone	14.75	43	42873	6.56	ug/l		72
12) 1,1-Dichloroethene	14.51	96	1717077	49.12	ug/l		94
20) Methacrylonitrile	18.51	41	33499	3.51	ug/l	#	43
24) 1,2-Dichloroethane	19.54	62	24902	0.59	ug/l	#	41
31) Crotononitrile	20.68	67	7771	3.99	ug/l	#	1
34) Trichloroethene	20.70	130	2376784	45.33	ug/l		98
35) Benzene	19.55	78	4581259	50.40	ug/l		100
50) Toluene	23.14	92	3035374	48.09	ug/l		94
52) Chlorobenzene	26.11	112	3996912	47.44	ug/l		99
57) 1,2,3-Trichloropropane	28.66	75	1683111	33.36	ug/l	#	51

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

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL Lab Sample ID: 95GVF109-MB1 BS

Sample wt/vol: 5.0 (g/mL) G Lab File ID: FPB423

Level: (low/med) LOW Date Received: 04/23/95

% Moisture: not dec. 0 Date Analyzed: 04/23/95

Column: (pack/cap) CAP Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	4	JB
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

S: SPIKE COMPOUND FORM 1 V-1 12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL Lab Sample ID: 95GVF109-MB1 BS

Sample wt/vol: 5.0 (g/mL) G Lab File ID: FPB423

Level: (low/med) LOW Date Received: 04/23/95

% Moisture: not dec. 0 Date Analyzed: 04/23/95

Column: (pack/cap) CAP Dilution Factor: 1.0

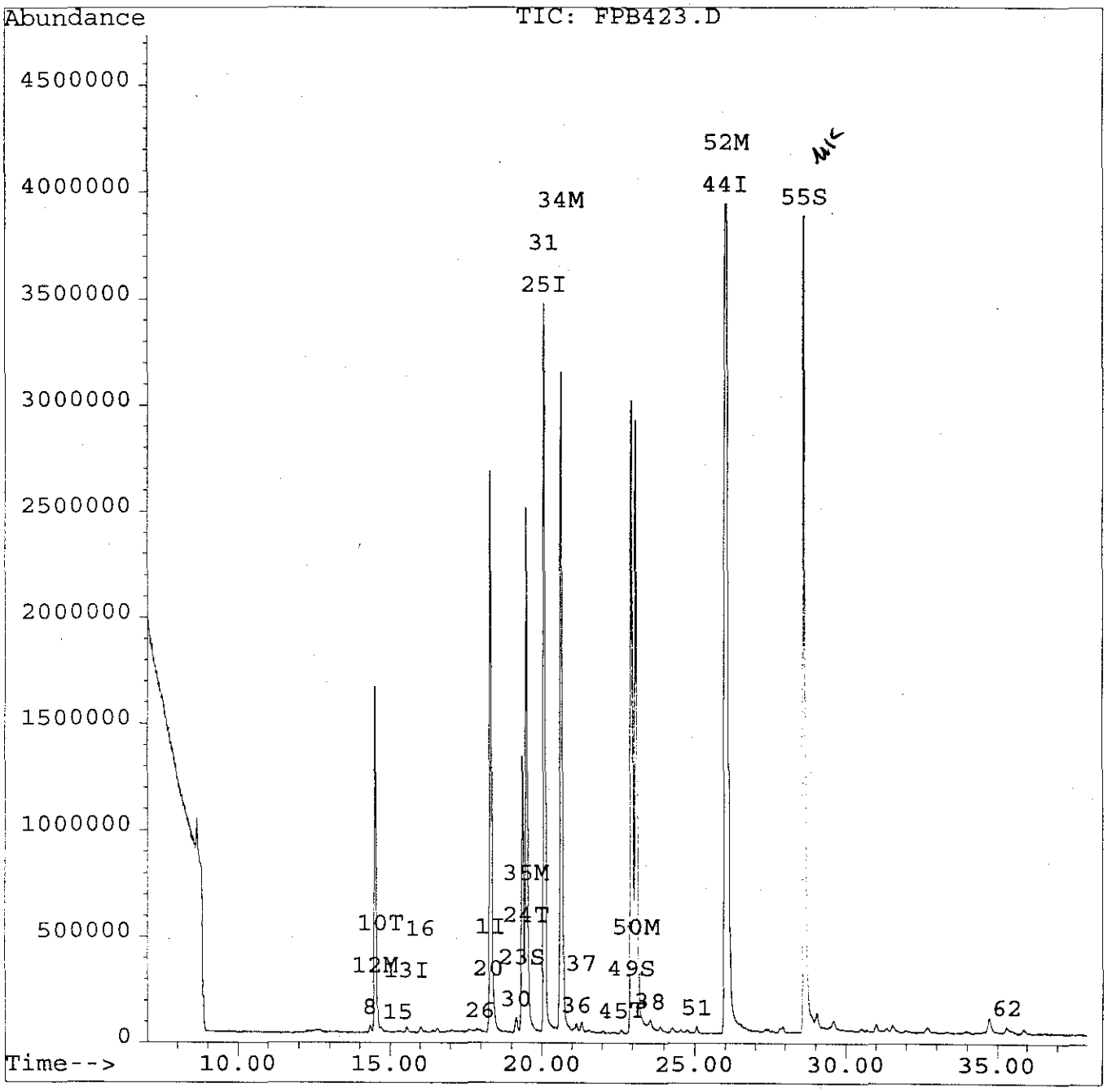
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	20	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	50	U
107-05-1	3-Chloropropene	20	U
126-98-7	Methacrylonitrile	20	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2000	U
106-93-4	1,2-Dibromoethane	20	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	20	U
97-63-2	Ethylmethacrylate	20	U
76-01-7	Pentachloroethane	20	U

S: SPIKE COMPOUND FORM 1 V-2 12/88 Rev.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2395\FPB423.D Vial: 3
Acq On : 23 Apr 95 9:20 pm Operator:
Sample : 95GVF109-MB1S FNA423 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS+10ULMS Multiplr: 1.00
Quant Time: Apr 23 21:58 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Apr 23 19:56:50 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2395\FPB423.D Vial: 3
Acq On : 23 Apr 95 9:20 pm Operator:
Sample : 95GVF109-MB1S FNA423 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS+10ULMS Multiplr: 1.00
Quant Time: Apr 23 21:58 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Apr 23 19:56:50 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	18.33	128	1615532	50.00	ug/l		-0.03
25) 1,4-Difluorobenzene	20.09	114	6445834	50.00	ug/l		-0.03
44) Chlorobenzene-d5	26.01	117	5299639	50.00	ug/l		-0.04
System Monitoring Compounds							%Recovery
23) 1,2-Dichloroethane-d4	19.35	65	2207349	48.51	ug/l		97.03%
49) Toluene-d8	22.97	98	5079135	47.38	ug/l		94.77%
55) Bromofluorobenzene	28.62	95	4383841	47.67	ug/l		95.34%
Target Compounds							Qvalue
8) Acrolein	14.34	56	68279	14.39	ug/l		96
10) Acetone	14.70	43	48644	3.82	ug/l		87
12) 1,1-Dichloroethene	14.52	96	1440484	46.01	ug/l	#	83
13) Methylene Chloride	15.55	84	25708	0.52	ug/l	#	68
15) Acetonitrile	15.26	41	16087	0.83	ug/l	#	53
16) Acrylonitrile	16.02	53	53266	6.53	ug/l	#	83
20) Methacrylonitrile	18.25	41	22016	1.00	ug/l	#	72
24) 1,2-Dichloroethane	19.49	62	57500	1.08	ug/l		99
26) Propionitrile	17.97	54	9353	2.92	ug/l	#	61
30) Isobutanol	19.14	43	64528	33.73	ug/l	#	30
31) Crotononitrile	20.10	67	24595	7.00	ug/l	#	1
34) Trichloroethene	20.65	130	2737095	43.10	ug/l		92
35) Benzene	19.49	78	5302980	47.30	ug/l		100
36) Methylmethacrylate	21.13	41	40621	0.61	ug/l	#	79
37) Dibromomethane	21.32	174	40981	0.62	ug/l		90
38) Ethylmethacrylate	23.56	69	51525	0.73	ug/l	#	78
45) 4-Methyl-2-Pentanone	22.64	43	40337	0.80	ug/l		76
50) Toluene	23.11	92	3202013	44.16	ug/l		99
51) 1,2-Dibromoethane	25.06	107	57811	0.61	ug/l		95
52) Chlorobenzene	26.08	112	4397164	45.86	ug/l		100
68) 1,2-Dibromo-3-chloropropan	35.33	157	16872	1.38	ug/l	#	40

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

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMSD

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL Lab Sample ID: 95GVF109-MB1 BSD

Sample wt/vol: 5.0 (g/mL) G Lab File ID: FPC423

Level: (low/med) LOW Date Received: 04/23/95

% Moisture: not dec. 0 Date Analyzed: 04/24/95

Column: (pack/cap) CAP Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	5	JB
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

S: SPIKE COMPOUND FORM 1 V-1 12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMSD

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL

Lab Sample ID: 95GVF109-MB1 BSD

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: FPC423

Level: (low/med) LOW

Date Received: 04/23/95

% Moisture: not dec. 0

Date Analyzed: 04/24/95

Column: (pack/cap) CAP

Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	20	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	50	U
107-05-1	3-Chloropropene	20	U
126-98-7	Methacrylonitrile	20	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2000	U
106-93-4	1,2-Dibromoethane	20	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	20	U
97-63-2	Ethylmethacrylate	20	U
76-01-7	Pentachloroethane	20	U

S: SPIKE COMPOUND

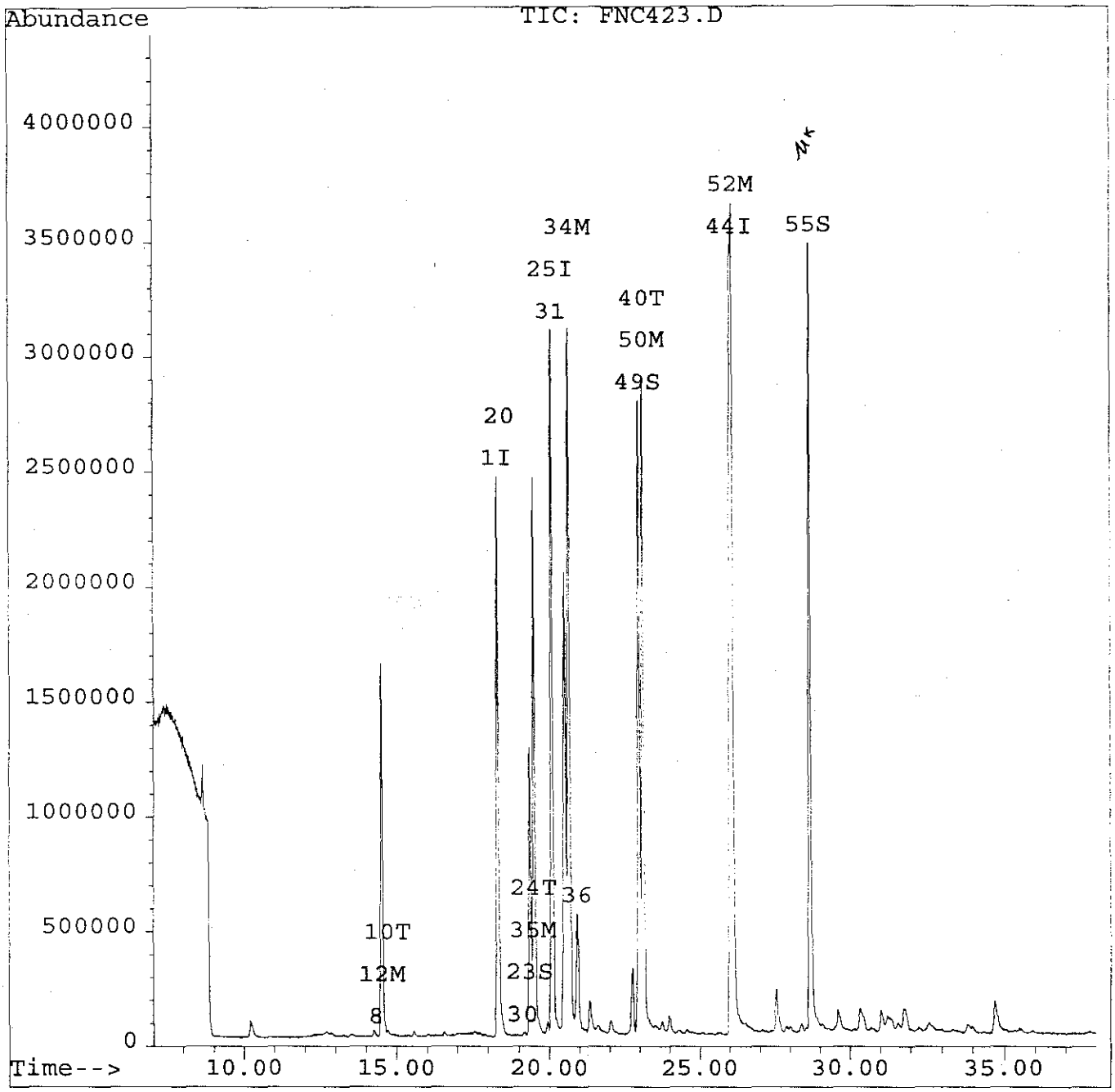
FORM 1 V-2

12/88 Rev.

Data File : C:\HPCHEM\1\DATA\APR2395\FNC423.D
Acq On : 24 Apr 95 2:30 am
Sample : 95GVF109-MB1T FNA423
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS+10ULMS
Quant Time: Apr 24 3:09 1995

Vial: 10
Operator:
Inst : inst #6
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Apr 23 19:56:50 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\APR2395\FNC423.D Vial: 10
Acq On : 24 Apr 95 2:30 am Operator:
Sample : 95GVF109-MB1T FNA423 Inst : inst #6
Misc : GCL#6,DIL=1,5MLOFW+5ULIS,SS+10ULMS Multiplr: 1.00
Quant Time: Apr 24 3:09 1995

Method : C:\HPCHEM\1\METHODS\8240S6.M
Title : VOA Standards for 5 point calibration
Last Update : Sun Apr 23 19:56:50 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	18.33	128	1522156	50.00	ug/l		-0.03
25) 1,4-Difluorobenzene	20.10	114	5861078	50.00	ug/l		-0.02
44) Chlorobenzene-d5	26.03	117	4672036	50.00	ug/l		-0.02
System Monitoring Compounds							%Recovery
23) 1,2-Dichloroethane-d4	19.35	65	2167792	50.57	ug/l		101.13%
49) Toluene-d8	22.98	98	4633405	49.03	ug/l		98.06%
55) Bromofluorobenzene	28.67	95	3857833	47.58	ug/l		95.17%
Target Compounds							Qvalue
8) Acrolein	14.36	56	6810	1.52	ug/l	#	15
10) Acetone	14.73	43	56733	4.73	ug/l		89
12) 1,1-Dichloroethene	14.53	96	1421946	48.21	ug/l	#	82
20) Methacrylonitrile	18.44	41	63563	3.06	ug/l	#	38
24) 1,2-Dichloroethane	19.50	62	47256	0.94	ug/l		72
30) Isobutanol	19.13	43	5898	3.39	ug/l	#	1
31) Crotononitrile	20.09	67	9978	3.12	ug/l	#	1
34) Trichloroethene	20.65	130	2660266	46.07	ug/l		92
35) Benzene	19.49	78	5182303	50.84	ug/l		100
36) Methylmethacrylate	20.93	41	268655	4.40	ug/l		92
40) trans-1,3-Dichloropropene	23.12	75	37175	0.61	ug/l	#	1
50) Toluene	23.12	92	3110228	48.65	ug/l		99
52) Chlorobenzene	26.10	112	4182517	49.49	ug/l		99

(#) = qualifier out of range (m) = manual integration
FNC423.D 8240S6.M Mon Apr 24 08:05:59 1995 Page 1

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL

Lab Sample ID: 95GVB092-MB1 BS

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BZB420

Level: (low/med) LOW

Date Received: 04/20/95

% Moisture: not dec. 0

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

S: SPIKE COMPOUND

FORM 1 V-1

12/88 Rev.

1B
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMS

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL Lab Sample ID: 95GVB092-MB1 BS

Sample wt/vol: 5.0 (g/mL) G Lab File ID: BZB420

Level: (low/med) LOW Date Received: 04/20/95

% Moisture: not dec. 0 Date Analyzed: 04/20/95

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	20	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	50	U
107-05-1	3-Chloropropene	20	U
126-98-7	Methacrylonitrile	20	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2000	U
106-93-4	1,2-Dibromoethane	20	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	20	U
97-63-2	Ethylmethacrylate	20	U
76-01-7	Pentachloroethane	20	U

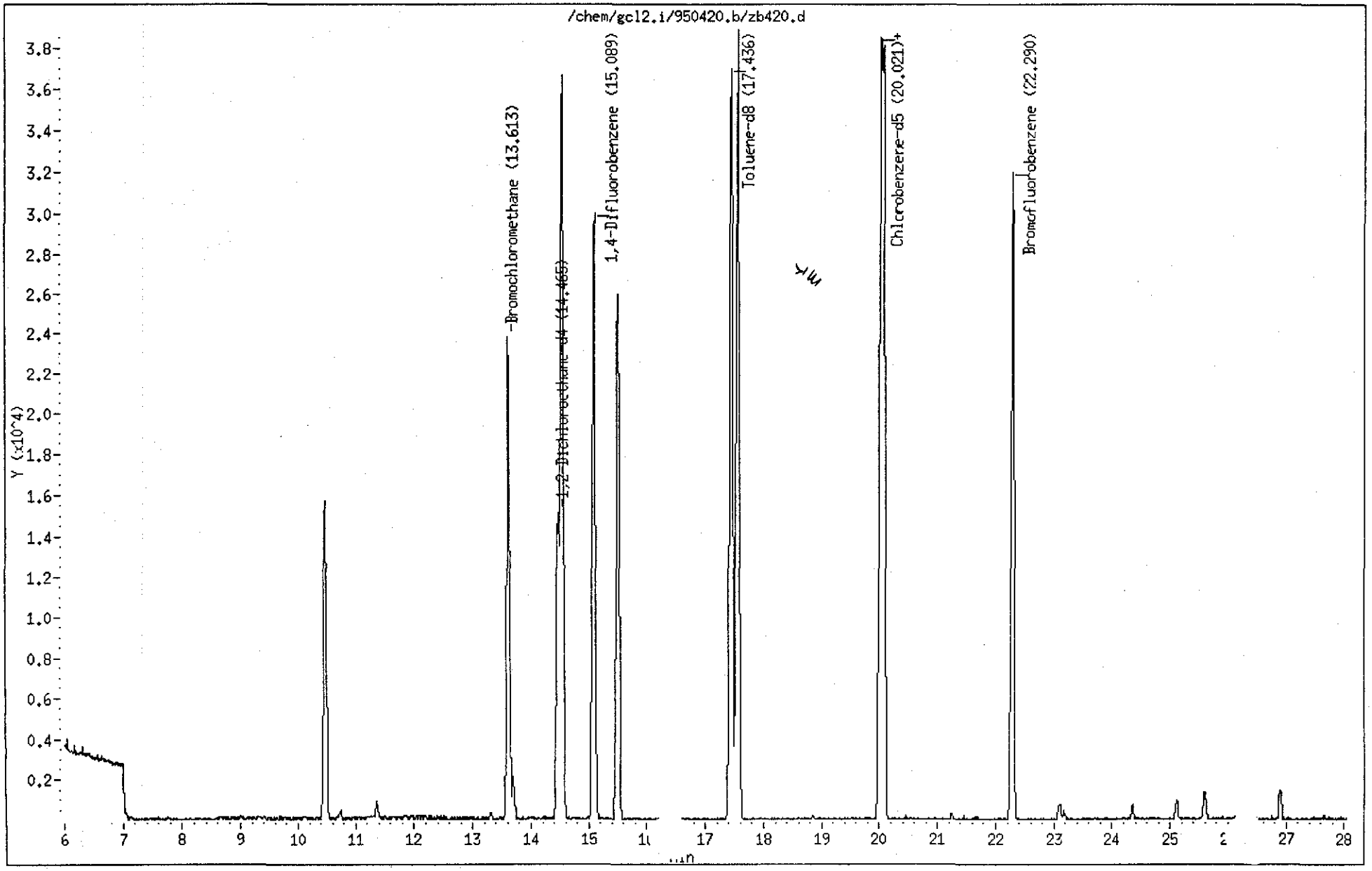
S: SPIKE COMPOUND FORM 1 V-2 12/88 Rev.

Data File: /chem/gcl2.i/950420.b/zb420.d
Date : 20-APR-1995 13:49
Client ID:
Sample Info: 95GVB092-MB1S BXB420

Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950420.b/zb420.d
Lab Smp Id:
Inj Date : 20-APR-1995 13:49
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 95GVB092-MB1S BXB420
Misc Info : GCL#2,DIL=1,5MLOFW+5ULIS,SS+10UL 296
Comment :
Method : /chem/gcl2.i/950420.b/8240s2.m
Meth Date : 20-Apr-1995 11:24 petruszj Quant Type: ISTD
Cal Date : 20-APR-1995 10:30 Cal File: ya420.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12
Concentration Formula: Uf * (Vt * 1000)/(Va * Ws * (100 - M)/100)

Name	Value	Description
Ws	5.000	Weight of sample extracted (g)
Vt	10.000	Volume of final extract (mL)
Va	100.000	Volume of aliquot extract added (uL)
M	0.000	% Moisture (not decanted)
Uf	1.000	ng unit correction factor

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
9	1,1-Dichloroethene	96.00	10.464	10.460	(0.769)	11795	50.19	1004
* 27	Bromochloromethane	127.80	13.613	13.591	(1.000)	9628	50.00	
$ 33	1,2-Dichloroethane-d4	65.00	14.465	14.453	(1.063)	15564	53.27	1065
34	Benzene	78.00	14.534	14.523	(0.963)	55580	47.78	955.6
* 37	1,4-Difluorobenzene	114.00	15.089	15.078	(1.000)	46037	50.00	
38	Trichloroethene	130.00	15.495	15.484	(1.027)	18838	42.49	849.8
44	2-Nitropropane	43.00	17.546	17.229	(1.289)	833	4.75	94.99
$ 47	Toluene-d8	98.00	17.436	17.437	(0.871)	47092	51.82	1036
48	Toluene	91.00	17.546	17.556	(0.876)	53896	47.78	955.5
* 56	Chlorobenzene-d5	117.00	20.021	20.033	(1.000)	40846	50.00	
57	Chlorobenzene	112.00	20.071	20.093	(1.002)	37795	45.44	908.9
$ 64	Bromofluorobenzene	95.00	22.290	22.313	(1.113)	26454	47.58	951.6

1A
VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMSD

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL Lab Sample ID: 95GVB092-MB1 BSD

Sample wt/vol: 5.0 (g/mL) G Lab File ID: BZC420

Level: (low/med) LOW Date Received: 04/20/95

% Moisture: not dec. 0 Date Analyzed: 04/20/95

Column: (pack/cap) PACK Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene		S
75-34-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene		S
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene		S
10061-02-6	trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene		S
108-90-7	Chlorobenzene		S
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

S: SPIKE COMPOUND FORM 1 V-1 12/88 Rev.

1B

VOLATILE ORGANICS ANALYSIS SHEET

CLIENT SAMPLE NO.

VBLKMSD

Lab Name: Roy F. Weston, Inc. Work Order: 01989-009-002-0

Client: Techalloy

Matrix: SOIL

Lab Sample ID: 95GVB092-MB1 BSD

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: BZC420

Level: (low/med) LOW

Date Received: 04/20/95

% Moisture: not dec. 0

Date Analyzed: 04/20/95

Column: (pack/cap) PACK

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	
107-02-8	Acrolein	500	U
107-13-1	Acrylonitrile	100	U
75-69-4	Trichlorofluoromethane	10	U
75-71-8	Dichlorodifluoromethane	20	U
75-05-8	Acetonitrile	100	U
74-88-4	Iodomethane	10	U
107-12-0	Propionitrile (Ethyl Cyanide)	50	U
107-05-1	3-Chloropropene	20	U
126-98-7	Methacrylonitrile	20	U
74-95-3	Dibromomethane	10	U
78-83-1	Isobutyl alcohol	2000	U
106-93-4	1,2-Dibromoethane	20	U
630-20-6	1,1,1,2-Tetrachloroethane	10	U
96-18-4	1,2,3-Trichloropropane	10	U
110-57-6	trans-1,4-Dichloro-2-butene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
126-99-8	2-Chloro-1,3-Butadiene	100	U
80-62-6	Methylmethacrylate	20	U
97-63-2	Ethylmethacrylate	20	U
76-01-7	Pentachloroethane	20	U

S: SPIKE COMPOUND

FORM 1 V-2

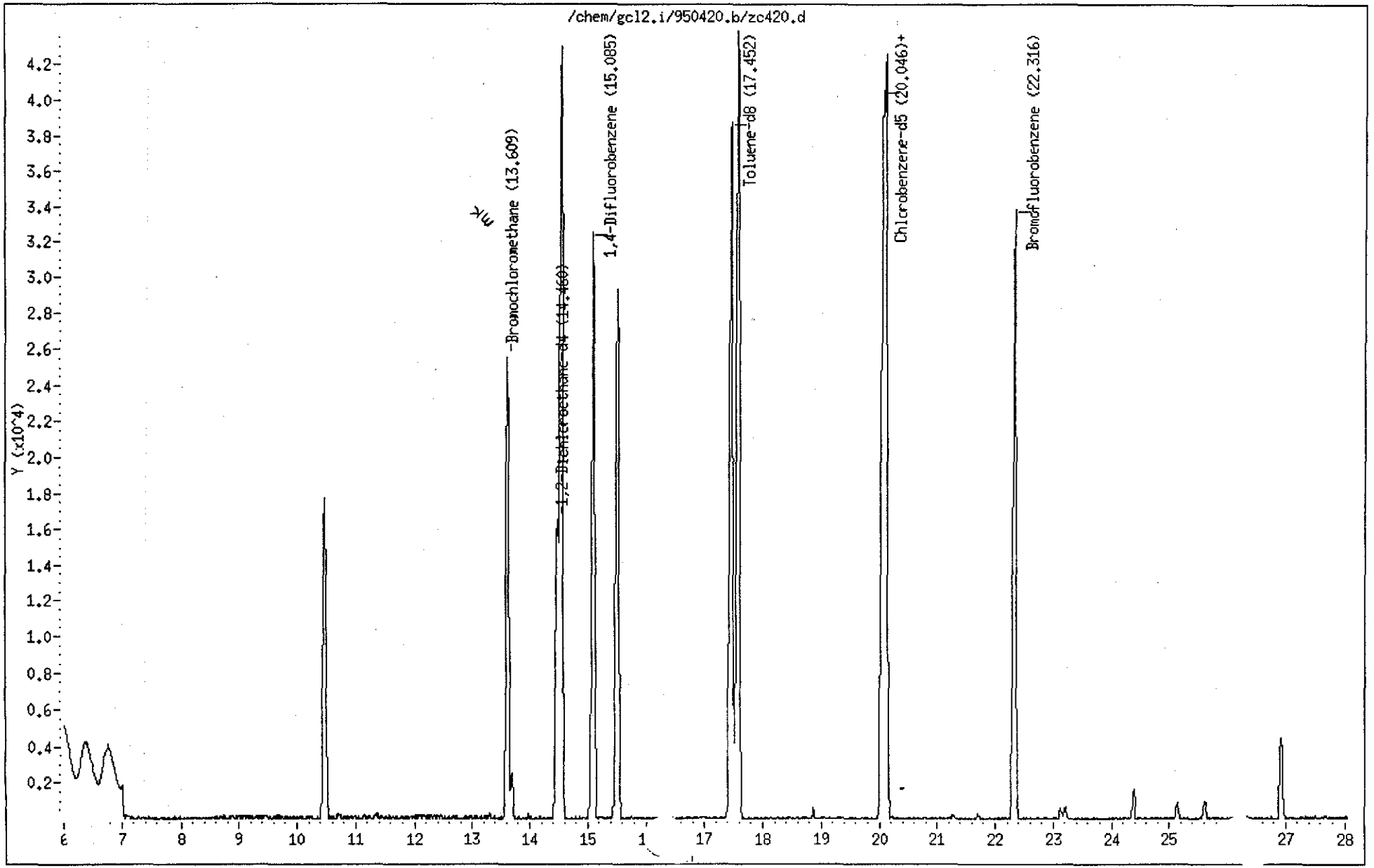
12/88 Rev.

Data File: /chem/gcl2.i/950420.b/zc420.d
Date : 20-APR-1995 19:10
Client ID:
Sample Info: 95GVB092-MB1T BXB420

Column phase:

Instrument: gcl2.i

Operator: MANAGER MS
Column diameter: 2.00



Gulf Coast

VOLATILE REPORT SW-846 Method 8240

Data file : /chem/gcl2.i/950420.b/zc420.d
Lab Smp Id:
Inj Date : 20-APR-1995 19:10
Operator : MANAGER MS Inst ID: gcl2.i
Smp Info : 95GVB092-MB1T BXB420
Misc Info : GCL#2,DIL=1,5GSND+5ULIS,SS+5MLOFW+10UL211
Comment :
Method : /chem/gcl2.i/950420.b/8240s2.m
Meth Date : 20-Apr-1995 11:24 petruszj Quant Type: ISTD
Cal Date : 20-APR-1995 10:30 Cal File: ya420.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	1,1-Dichloroethene	96.00	10.460	10.460	(0.769)	13334	52.89	52.89
* 27	Bromochloromethane	127.80	13.599	13.591	(1.000)	10330	50.00	
$ 33	1,2-Dichloroethane-d4	65.00	14.460	14.453	(1.063)	17211	54.90	54.90
34	Benzene	78.00	14.530	14.523	(0.963)	64310	51.74	51.74
* 37	1,4-Difluorobenzene	114.00	15.085	15.078	(1.000)	49197	50.00	
38	Trichloroethene	130.00	15.501	15.484	(1.028)	21364	45.09	45.09
44	2-Nitropropane	43.00	17.561	17.229	(1.291)	871	4.63	4.63
$ 47	Toluene-d8	98.00	17.442	17.437	(0.871)	49669	52.27	52.27
48	Toluene	91.00	17.561	17.556	(0.876)	61192	51.88	51.88
* 56	Chlorobenzene-d5	117.00	20.036	20.033	(1.000)	42710	50.00	
57	Chlorobenzene	112.00	20.096	20.093	(1.003)	42229	48.56	48.56
$ 64	Bromofluorobenzene	95.00	22.316	22.313	(1.114)	27712	47.67	47.67

WESTON

GC/MS VOLATILE ANALYSIS LOG

OP No. 21-21G-1606; Rev. 01; Eff. Date 12/27/94

INSTRUMENT ID # 5

ANALYSIS DATE TIME 4/21/95	FILE NAME	RFW NUMBER YYMM G XXX	XXX	SAMPLE ID	SPARG NO.	PREPARATION SAMPLE WT/VOL	INJ. VOL. (ul)	INST DIL.	INT. STD #	STD #	MS STD #	pH <2	COMMENTS	SECTORS	ANALYST INITIAL
2013	AB421	BTCB Tue		Tue	2	5ml ow								[illegible]	K
2050	BE421	Std 50		Std	3				292 293				5ul IS,SS +2.5ul 3030		
2130	BD421	Std 50++		Std	4								+2.5ul 295, 269, 288, 249, 283, 282, 284 +2ul 302		
2255	BF421	Std 50+		Std	2										
2351	CF421	95GVE116	MB1	Blk	5										
0047	CI421		MB15	Blk Spike	7										
0128	WLG09	95GLG363	015		8	5ml SP						11			
0209	WLG08		030		9							11			
0249	WKV21	95GLG211	001		10	200ul SP		25				✓			
0330	WKV22		009		11			25				✓			
0411	WKR15	95GLG251	023		12	250ul SP		20							
0452	WKR16		0235		13								+10ul 278		
0532 ~~0613~~	WLB06	95GLG288	005		14	5ml SP						✓			
0613	WLB05		004		15							✓			

JSO 4/22/95

Analyst Signature/Date [signature] 4/22/95

Reviewed by Signature/Date [signature] 4/22/95

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WESTON

GC/MS VOLATILE ANALYSIS LOG

OP No. 21-21G-1606; Rev. 01; Eff. Date 12/27/94

INSTRUMENT ID # 5

ANALYSIS DATE TIME 4/22/95	FILE NAME	RFW NUMBER YYMM G XXX	XXX	SAMPLE ID	SPARG NO.	PREPARATION SAMPLE WT/VOL	INJ. VOL. (ul)	INST DIL.	INT. STD #	STD #	MS STD #	pH <2	COMMENTS	SECTORS	ANALYST INITIAL
0655	WLB07	95046288	006		16	5ml 5ml			292 293			✓	5ul IS,SS	NA	[illegible]
0737	WLB04		003		1	100ml		50				✓			
0818	CH4L1	95GVE116M	MB1T	Spk Blk	2								+10ml 278		
0859	CY4L1	POS4 Blk			4										
0940	CZ4L1	POS6 Blk			6										
1245	AA422	BFBTUNE		TUNE	8	5ml OFW							+2ul BFB 252		[illegible]
1330	BA422	Std50tt		Std	9				292 293				5ul IS,SS + 2.5ul 295,299,269,288 +2ul 302		MOriley
1425	BB422	Std Chloroprene		Std	9								5ul IS + 2.5ul 303B		
1508	BC422	Std50tt		Std	8								5ul IS,SS + 2.5ul 295 299 269 288 282 283 284 + 2ul 302		
1607	CA422	95GVE117	MB1	Blank	10								5ul IS,SS		
1658	CB422		MB1S	Spk Blank	11						296		+10ul 296		
1751	WKR17	95046251	005		12	5ml 5ml						11			
1832	WKR18		010		13							11			
1911	WKR19		015		14							11			

Analyst Signature/Date MOriley 4/22/95 Reviewed by Signature/Date [illegible] 4/22/95 Page 50

WESTON

GC/MS VOLATILE ANALYSIS LOG

OP No. 21-21G-1622
Rev. 01; Eff. Date 03/09/95

INSTRUMENT ID # 6

ANALYSIS DATE TIME 4/19/95	FILE NAME	RFW NUMBER YYMM G XXX	XXX	SAMPLE ID	SPARG NO.	PREPARATION SAMPLE WT/VOL	INJ. VOL. (ul)	INST DIL.	INT. STD #	STD #	MS STD #	pH <2	COMMENTS	SECTORS	ANALYST INITIAL
1927	NB419	BFB Tue		Tue	13	5ml ow							+2ml BFB262	[illegible]	[illegible]
2004	OC419	Std 50		Std	14				242 243				5ml IS,SS +2.5ml 291, 268 295, 288 +2ml 268		
2110	OC419	Std 50		Std	14										
2218	PD419	95GVF103	MB1	Blank	15										
2322	PD419		MB1	Blk	15										
0017	PE419		MB1S	Blank Spike	16								+10ml 211		
~~62~~ 111	WJR21	95046227	001		3	5g Snp									
156	WJR17		002		4										
241	WJR18		003		5										
327	WJR19		003S		6										
411	WJR20		003T		7										
456	WKS04	95046358	001		8	1g Snp		5							
541	PF419	95GVF103	MB1T	Blk Spike	9	5g Snd									
623	WKV01	95046241	011		10	5g S									

WESTON

GC/MS VOLATILE ANALYSIS LOG

OP No. 21-21G-1622
Rev. 01; Eff. Date 03/09/95

INSTRUMENT ID # 6

ANALYSIS DATE TIME 4/20/95	FILE NAME	RFW NUMBER YYMM G XXX	XXX	SAMPLE ID	SPARG NO.	PREPARATION SAMPLE WT/VOL	INJ. VOL. (ul)	INST DIL.	INT. STD #	STD #	MS STD #	pH <2	COMMENTS	SECTORS	ANALYST INITIAL
704	PZ419	POS 11 Blank			11	5ml			292 293				5ul IS, SS +5ml ow	NA	K
0748	WKV02	9504G211	012		12	5g 5ml									
0831	WKV03		013		13										
918	NA420	BFB Tune		Tune	1	5ml 0ml							1ml BFB		[illegible]
0951	NB420				1										
1031 ~~2231~~	NA420	BFB Tune		Tune	1										
10:52 am 1105	20 April 1995 Earlene Thompson Sine check OA420	STD	50	STD	2				292 293	295 299			5ml IS, SS + 2.5ml 295, 299		
1214	OB420	STD	10		11								5ml IS + 1ml SS + 0.5ml		
1254	OC420		20		12								+2ml +1ml		
1333	OD420		100		13								+10ml +5ml		
1411	OE420		200		14								+20ml +10ml		
1539	NB420	BFB Tune		Tune	1								1ml BFB		
4:17pm 1626	20 April 1995 Earlene Thompson Sine check OP420	STD	50	STD	2				292 293	295 299			5ml IS, SS + 2.5ml 295, 299		
1721	PA420	95FVF104	NS1	Blank	3										

Analyst Signature/Date [signature] 4/20/95 [signature] 5-2-95

WESTON

GC/MS VOLATILE ANALYSIS LOG

OP No. 21-21G-1622
Rev. 01; Eff. Date 03/09/95

INSTRUMENT ID # 6

ANALYSIS DATE TIME 4/22/95	FILE NAME	RFW NUMBER YYMM G XXX	XXX	SAMPLE ID	SPARG NO.	PREPARATION SAMPLE WT/VOL	INJ. VOL. (ul)	INST DIL.	INT. STD #	STD #	MS STD #	pH <2	COMMENTS	SECTORS	ANALYST INITIAL
1640	OC422	Std50		Std	7	5ml OFW			297 298				5µl IS,SS + 2.5µl 305	NA	MGRiley
1747	PF422	95GVF108	MB1	Blank	8										
1838	PI422		MB1		3	5g Sand							5mL OFW		
1929	PG422		MB1S	Spike	4										
2022	WLJ01	9504G403	001		5	5g Smp									
2113	WLJ02		001S		6						296		+10µl 296		
2205	WLJ03		001T		7										
2257	WLJ04		002		8										
2350	PH422	95GVF108	MB1T	Spk Dup	9	5ml OFW					296				
1552	NA423	Tune		Tune	1								2ul BFB		2 [illegible]
1629	OA423	STD ++	50	STD	3				292 293	295 299 267 288 302			5ul IS,SS + 2.5ul 295 299 264 288 + 2ul 302		
1730	OB423		50		3										
1846	OB423		50		9										
2015	PA423	95GVF109	MB1	Blank	6										

Analyst Signature/Date [illegible] 4/23/95 [illegible]

WESTON

GC/MS VOLATILE ANALYSIS LOG

OP No. 21-21G-1622
Rev. 01; Eff. Date 03/09/95

INSTRUMENT ID # 6

ANALYSIS DATE TIME	FILE NAME	RFW NUMBER YYMM G XXX	XXX	SAMPLE ID	SPARG NO.	PREPARATION SAMPLE WT/VOL	INJ. VOL. (ul)	INST DIL.	INT. STD #	STD #	MS STD #	pH <2	COMMENTS	SECTORS	ANALYST INITIAL
21 ~~0~~920	PB423	956VF109	MB15	Spike	3	5ml OFW			292 293				5ul IS,SS + 10ul MS	NA	[illegible]
2203	WKV23	95046211	012		4	5G SMP									
2248	WKV24		013		5										
2332	WLM01	95046399	001		6										
0016	WLM02		002		7										
0101	WLM03		003		8										
0146	WLM04		004		9										
0230	PC423	956VF105	MB1T	Spike	10	5ml OFW							+ 10ul MS		
0743	NA424	BFBTUNE		TUNE	8								+ 2ul BFB 252		[illegible]
0822	OA424	STD50++		STD	9				292 293	299 295			5ul IS,SS + 2.5ul 299 295 269 288 + 2ul 302		
0939	OB424				8										
9:34	[illegible]														
1038	PA424	956VF110	MB1	Blank	12	5g sand							+ 5ml OFW		
1139	PD424				12										
1241	PE424				12										

Analyst Signature/Date [illegible] 4/24/95 [illegible] 5-2-95

WESTON

GC/MS VOLATILE ANALYSIS LOG

OP No. 21-21G-1621

INSTRUMENT ID # 2

ANALYSIS DATE TIME 11/14/95	FILE NAME	RFW NUMBER YYMM G XXX | XXX	SAMPLE ID	SPARG NO.	PREPARATION SAMPLE WT/VOL	PREPARATION INJ. VOL. (ul)	INST DIL.	INT. STD #	STD #	MS STD #	pH <2	COMMENTS	SECTORS	ANALYST INITIAL
1303	ZB419	95GVB089 | MBLS	Blank Spike	6	5 mL dfw			292 293				SuCl5,55 +10uL 296 ~~292~~ MC 4-BFB	221	
1357	WJV07	9 5046216 | 002		8	5uL 1/100		100,000					+5mL dfw	226	
1434	WHR40	95046004 | 010		9	5uL 1/10 DF		1000						846	
1511	ZD419	95GVB089 | POS		10	5mL dfw								312	
1547	WHR41	95046004 | 004		11	0,58		10						217	
1624	WHR42	| 009		12	5g								397	
1700	WKA06	95046239 | 004		13									214	
1737	WKA07	| 005		14									206	
1816	WKA08	| 006		15									202	
1852	ZC419	95VB089 | MBLT		16	5g SMD								222	
1929	WJV08	95a16216 | 002		2	5uL 1/100		1mill						204	
2005	WHR43	95046004 | 009		3	5g SMD								217	
2045	XC419	BFB Tune	Tune	4	5mL dfw							+2uL Abtg 252	908	
2130	YC419	95VB044	Stel	5				292 295				5uL +1.5uL +2uL 295,299,298,255 205	351	

Analyst Signature/Date K. McLee 4/19/95

Reviewer Signature/Date [illegible] 4/20/95

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WESTON

GC/MS VOLATILE ANALYSIS LOG

OP No. 21-21G-1621

INSTRUMENT ID # 2

ANALYSIS DATE TIME 4/19/95	FILE NAME	RFW NUMBER YYMM G XXX	XXX	SAMPLE ID	SPARG NO.	PREPARATION SAMPLE WT/VOL	INJ. VOL. (ul)	INST DIL.	INT. STD #	STD #	MS STD #	pH <2	COMMENTS	SECTORS	ANALYST INITIAL
2231	ZE419	95UB090	MB1	Blk	6	5mL ow			242 243				500 F9,S1	199	K
2326	ZH419		MB1S	Blk Spk	8									228	
0018	ZF419		488	TCIP Blk	10	250 ul 2D		20						198	
0055	WJY14	95046240	002		11	1000 ul 1/1		50				✓		207	
132	WKV05	95046211	001		12	5mL SMD						✓		646	
208	WKV06		001S		13							✓	+ 1000 211	244	
243	WKV07		001T		14							✓		240	
320	WKV08		003		16							✓		216	
356	WKV09		005		1							✓		217	
433	WKV10		007		2							✓		205	
509	WKV11		009		3							✓		228	
545	WKR01	95046251	002		4	250 ul SMD		20						195	
621	WKR02		008		5									195	
0658	WKR03		013		6									194	

Analy ignature/Date K. M. Cul 4/20/95 Reviewed Signature/Date [signature] 4/20/95

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WESTON

GC/MS VOLATILE ANALYSIS LOG

OP No. 21-21G-1621

INSTRUMENT ID # 2

ANALYSIS DATE TIME 4/20/95	FILE NAME	RFW NUMBER YYMM G XXX	XXX	SAMPLE ID	SPARG NO.	PREPARATION SAMPLE WT/VOL	INJ. VOL. (ul)	INST DIL.	INT. STD #	STD #	MS STD #	pH <2	COMMENTS	SECTORS	ANALYST INITIAL
0736	ZG419	95GVB090	MB/T	Blank	8	5ml OW			242 245				5ul TS,SS + 10ul 211	210	K
0859	XA420	BFBTUNE		TUNE	1								+ 1ul BFB 252	753	[illegible]
944	XB420				1								+ 2ul BFB	732	
1030	YA420	STD	50	STD	2	5ml OFW			292 293	295 297 263 264			5ul TS,SS + 2.5ul 295 299 263 288 + 2ul 268	342	
1042 20 April 1995 Earl Washington Same check															
1149	ZA420	95GVB092	MB1	Blank	3									205	
1254	ZD420				4									200	[illegible]
1349	ZB420		MB1		5								+ 10ul 296	210	[illegible]
1449	WKV12	95046211	014		6	5G SMP							+ 5ml OFW	194	[illegible]
1527	WKV13		015		7									195	
4:14pm 20 April 1995 Earl Washington Same check															
1605	WKV14		015S		8									208	
1642	WKV15		015T		10									208	
1719	WK401	95046292	001		11									193	
1755	WKV16	95046211	012		12									181	
1834	WKV17		013		13									195	

Analyst Signature/Date [signature] 4/20/95 Reviewed Signature/Date [signature] 4/20/95

WESTON

GC/MS VOLATILE ANALYSIS LOG

OP No. 21-21G-1621

INSTRUMENT ID # 2

ANALYSIS DATE TIME	FILE NAME	RFW NUMBER YYMM G XXX | XXX	SAMPLE ID	SPARG NO.	PREPARATION SAMPLE WT/VOL	PREPARATION INJ. VOL. (ul)	INST DIL.	INT. STD. #	STD #	MS STD #	pH <2	COMMENTS	SECTORS	ANALYST INITIAL
1910	ZC420	956VB012 | MB1T	SpkeB1 w/dup	14	5ml 0.0							5ul IS, SS + 10ul MS	213	
1956	XB420 Grp	Tune		1								2ul 252	731	
2038	YB420	std		2				292 293				2.5ul 299, 295, 269, 288 5ul IS, SS 2ul 268	329	
2139	ZE420	956VB093 | MB1		3								5ul IS, SS	198	
2232 ~~2232~~	ZF420	| MB1S		5								5ul IS/SS +10ul 276	225	
BAD INT 2329 001	WLCOX2	95046380 | 001		6	5ml 5.0								198	
0049	WKV18	95046211 | 001		7	500 ul								205	
126	WKV19	| 005		8	1ml								202	
203	WKV20	| 009		10	500 ul								204	
240	WKR05	95046251 | 018		11	250 ul								192	
314	WKR06	| 023		12									502	
353	WKR07	| 023S		13								+10ul 276	226	
432	WKR08	| 028		14									196	
0510	WLB01	95046288 | 001		16	5ml 5.0								197	

Analyst Signature/Date IC Cmcm 4/20/95

Reviewed by Signature/Date AHem 4/21/95

Roy F. Weston, Inc.
Suite 400
3 Hawthorn Parkway
Vernon Hills, Illinois 60061-1450
847-918-4000 • Fax 847-918-4055

8 May 1997

RECEIVED
MAY 13 1997
DIVISION FIELD OFFICE
Waste, Pesticides & Toxics Division
U.S. EPA—REGION 5

Mr. William Buller
U.S. EPA, Region V
RCRA Enforcement Branch (HRE-8J)
77 West Jackson Boulevard
Chicago, Illinois 60604

Work Order No. 01989-028-001

Re: Results of Aquifer Performance Evaluation
Following Pumping Test for Techalloy Company in Union, Illinois

Dear Mr. Buller:

Roy F. Weston, Inc. (WESTON®) is providing U.S. EPA with an aquifer performance evaluation that was conducted on March 20, 21, and 22, 1997. The purpose of this pumping test was to determine the hydraulic characteristics of the saturated zone at an extraction well (EW-1) downgradient to the Techalloy Company in Union, Illinois.

An 8-inch diameter extraction well was installed by WESTON in September 1996 (part of "Interim Measures" implementation) approximately 750 feet north of the intersection of the Union and Highbridge Roads. Two piezometers (PZ-01 & PZ-02) located 50 and 100 feet north of the extraction well respectively, were also monitored to assess the impact of the pumping test on the aquifer. One monitoring well (MW-HBR) located approximately 750 feet upgradient to EW-1 was also monitored to assess the impact of the pump test. Figure 1 presents the location of the extraction well, the two piezometers, and the monitoring well MW-HBR.

The aquifer performance evaluation was conducted in accordance with the U.S. EPA's letter dated July 1, 1993 following approval of "The Interim Measures Workplan". Characterization of aquifer hydraulic characteristics was necessary to evaluate the optimum pumping rate and adjust it to a rate that can maximize the effectiveness of the Interim Measures. Based on the absence of any clay layers within the aquifer, which could have potentially acted as a confining or semi-confining layer, the aquifer was classified as an unconfined water table aquifer.

A 48-hour pumping test duration was selected to allow observation of early time data (when the most significant changes in drawdown occur) and late time data as the aquifer approached steady-state conditions. As part of the implementation of the Interim Measures, the extraction well (EW-1) has been pumping water at a rate of approximately 380 gallons per minute (gpm) to a treatment building since December 1996 for treatment and discharge

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into South Branch of Kishwaukee River. Static water level for the extraction well, the two piezometers, and the monitoring well MW-HBR were measured prior to the start of the pump test. These water levels reflect static water levels two weeks after the pumping of water from the extraction well was turned off.

AQUIFER TEST DATA ANALYSIS :

Distance-Drawdown and Time-Drawdown Analysis:

Water levels were recorded in the extraction well (EW-1) and MW-HBR during the pumping test using a Hermit 2000 Data Logger/pressure transducer system. Manual water level measurements were taken in PZ-01 and PZ-02 at intervals throughout the pumping test. The drawdown data from the 48-hour and 38-day constant discharge test were evaluated to determine the hydraulic parameters of transmissivity (T), specific yield (S), and hydraulic conductivity (K).

Aquifer test data analysis was initiated using the distance-drawdown analysis by modified non-equilibrium Jacob (straight line) method. For each of the two piezometers (PZ-01 and PZ-02) and the monitoring well (MW-HBR), distance-drawdowns were plotted on a semi-log graph for 2-days and 38-days. The graphs indicate that the maximum drawdowns were recorded in PZ-01 (closest @ 50 feet from extraction well). Aquifer test data analysis was also initiated for the piezometers PZ-01 and PZ-02 using time-drawdown data curve and matching resultant curves with model curves developed by Theis. The distance-drawdown for the 2-day and 38-days and the time-drawdown plots for the two piezometers (PZ-01 and PZ02) are attached. Response to extraction well pumping was observed to be essentially instantaneous in the observation wells located within 100 feet. No significant response was observed in MW-HBR (located 750 feet upgradient) during the 48-hour pumping test but a delayed response was observed during water level measurement taken 38-days of pumping. Maximum drawdown noted in the three wells were as follows:

Well ID	Distance from EW feet	Max. Drawdown (feet) 48 hours	Max. Drawdown (feet) 38 days
PZ-01	50	1.21	1.90
PZ-02	100	0.89	1.60
MW-HBR	750	0.15	0.86

Based on the fine grained material of the aquifer, it is inferred that drainage is relatively slow. Since the duration of the pumping test was only 48-hours, it is not long enough to account for the unusual S-shaped plots of log t versus log s. Hence the unusually high transmissivity values obtained for the piezometers PZ-01 and PZ-02 were not used in this analysis. For the purpose of our data analysis, an average of the transmissivity values obtained by the 2-days and 38-days distance-drawdown methods were only used.

Transmissivity:

Transmissivity (T) is a measure of the amount of water that can be transmitted horizontally by the saturated thickness of the aquifer, and as such, is defined as the product of the hydraulic conductivity and the aquifer thickness. During the installation of the extraction well, clay/till formation was encountered at an approximate depth of 78.7 feet below ground surface (bgs). Given a water table at approximately 10.9 feet bgs, the minimum saturated thickness across the study area is 67.8 feet and is used in subsequent calculations. The calculated results for the transmissivity values are presented below:

Distance-Drawdown Method	**Calculated Transmissivity (T)**	
	ft^2/day	gpd/ft
2-day (48 hours)	24,376	182,332
38-day (912 hours)	26,814	200,568
Arithmetic Mean	**25,595**	**191,450**
Time-Drawdown Method	ft^2/day	gpd/ft
PZ-01	30,600	228,888
PZ-02	44,800	335,104

Storativity:

The storativity (S) represents the volume of water that a permeable unit will absorb or release from storage per unit surface area per unit change in head. In unconfined aquifers, the level of saturation rises and falls with changes in the amount of water in storage. As the water level falls (such as during a pump test), water drains from the pore spaces.

Distance-Drawdown Time-Drawdown Methods	Calculated Storativity (S)	
	S (no units)	Percent
2-day (48 hours)	0.17	17
38-day (912 hours)	0.05	5

Hydraulic Conductivity:

Hydraulic Conductivity (K) values represent the rate at which water can move through a permeable medium. These values were calculated using the following expression:

$$K = \frac{T}{b}$$

Where: T is the aquifer transmissivity
b is the saturated thickness of the aquifer

Distance-Drawdown Method	Calculated Hydraulic Conductivity (K)	
	ft/day	cm/sec
2-day (48 hours)	359	1.2 E-1
38-day (912 hours)	395	1.4 E-1
Arithmetic Mean	**377**	**1.3 E-1**
Time-Drawdown Method	ft/day	cm/sec
PZ-01	451	1.6 E-1
PZ-02	660	2.3 E-1

CAPTURE ZONE ANALYSIS:

A groundwater capture zone analysis was carried out for Techalloy site in order to assess the impact on aquifer at two different pumping rates based on the seasonal fluctuation in well head. Time-related capture zones for a pumping well in a homogenous aquifer was

determined by using U.S. EPA's Well Head Protection Area (WHPA) conceptual module: MWCAP.

Based on the aquifer pumping test data evaluation, a mean transmissivity of 25,595 ft^2/day was calculated for an aquifer with a saturated thickness of 67.8 feet. Using a hydraulic gradient of 0.001 and porosity of 30%, the extraction well EW-1 shows the associated capture zones at 350 and 380 gpm in Figure 2 and 3, respectively.

Both the figures show that the plume can be contained effectively using the present extraction well system extracting at a rate of 350 or 380 gpm. Both these runs indicate pathlines for a period of 548 days (1.5 years).

If you have any questions or require additional information, please do not hesitate to contact me at (847) 918-4000

Very truly yours,

ROY F. WESTON, INC.

Carlos J. Serna, P.G.
Senior Project Manager

CJS:sk

cc: Kevin Lesko, IEPA
Henry Lopes, Techalloy
David Williams, Techalloy
Scott Carr, Techalloy

SUMMARY SHEET **Jacob (Straight line) method for Distance-Drawdown Analysis**

Units of Drawdown	feet
Pumping Rate (Q)	380 gal/min or 73,155 ft^3/day
Saturated aquifer thickness (b)	67.8-feet
Change in head over 1 log cycle (s)	1.1-feet

Distance from Extraction Well

To piezometer PZ-01	50-feet
To piezometer PZ-02	100-feet
To monitoring well MW-HBR	750-feet

Transmissivity (T)

$$T = \frac{2.303\ (Q)}{2\ \Pi\ s}$$

24,376 ft^2/day

Hydraulic Conductivity (K)

$K = T/b$ ft/day

Hydraulic Conductivity K= 348 ft/day or $1.2x10^{-1}$ cm/sec

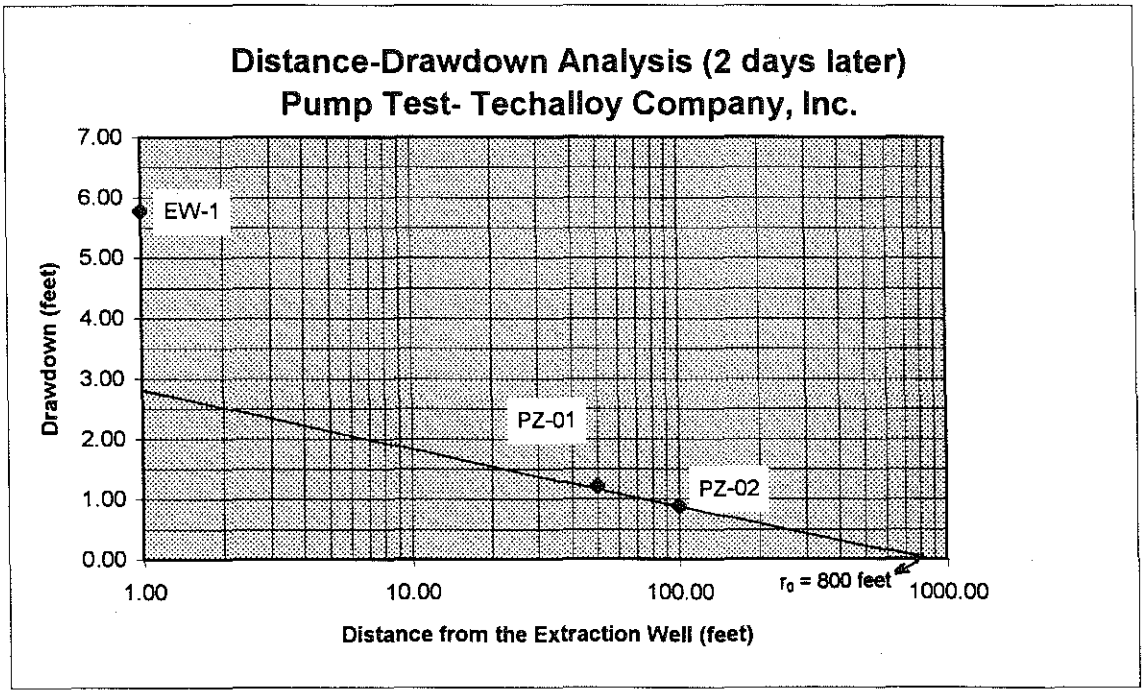
Storativity (S)

r_0 = 800 feet

t= 2 days

$$S = \frac{2.25\ (T)\ (t)}{r_0^2} \qquad S = \frac{2.25 \times 24{,}376 \times 2}{(800)^2}$$

Storativity (S) = 0.17 or 17%



SUMMARY SHEET **Jacob (Straight line) method for Distance-Drawdown Analysis**

Units of Drawdown	feet
Pumping Rate (Q)	380 gal/min or 73,155 ft^3/day
Saturated aquifer thickness (b)	67.8-feet
Change in head over 1 log cycle (s)	1.0-foot

Distance from Extraction Well

To piezometer PZ-01	50-feet
To piezometer PZ-02	100-feet
To monitoring well MW-HBR	750-feet

Transmissivity (T)

$$T = \frac{2.303\ (Q)}{2\ \Pi\ s}$$

26,814 ft^2/day

Hydraulic Conductivity (K)

$K = T/b$ ft/day

Hydraulic Conductivity K= 383 ft/day or 1.3×10^{-1} cm/sec

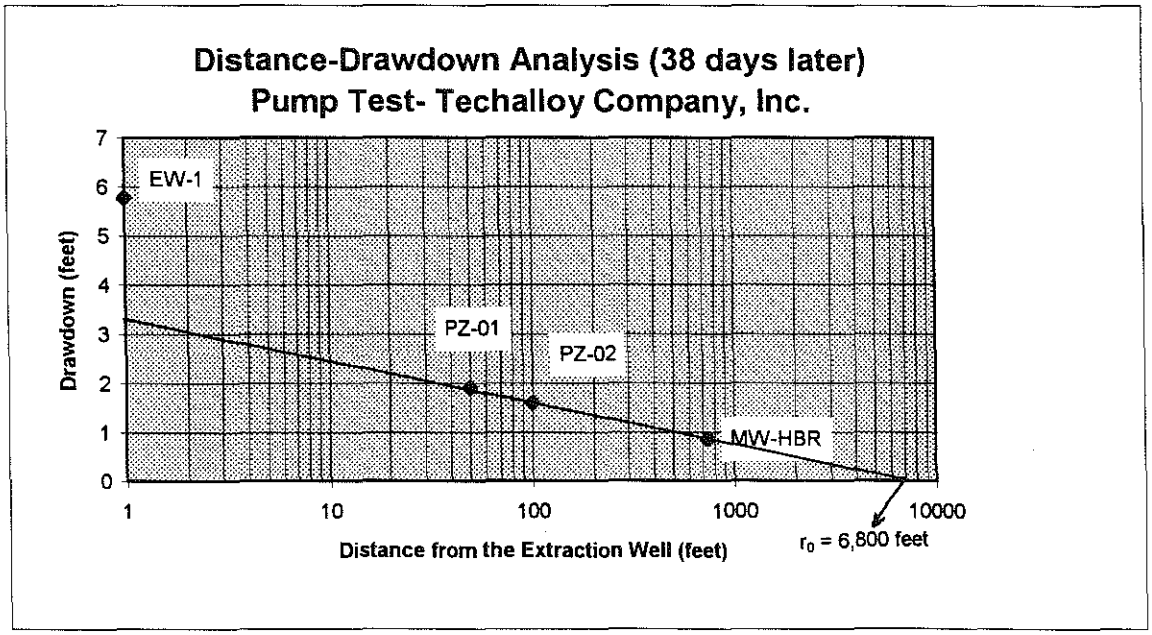
Storativity (S)

r_0 = 6,800 feet

t= 38 days

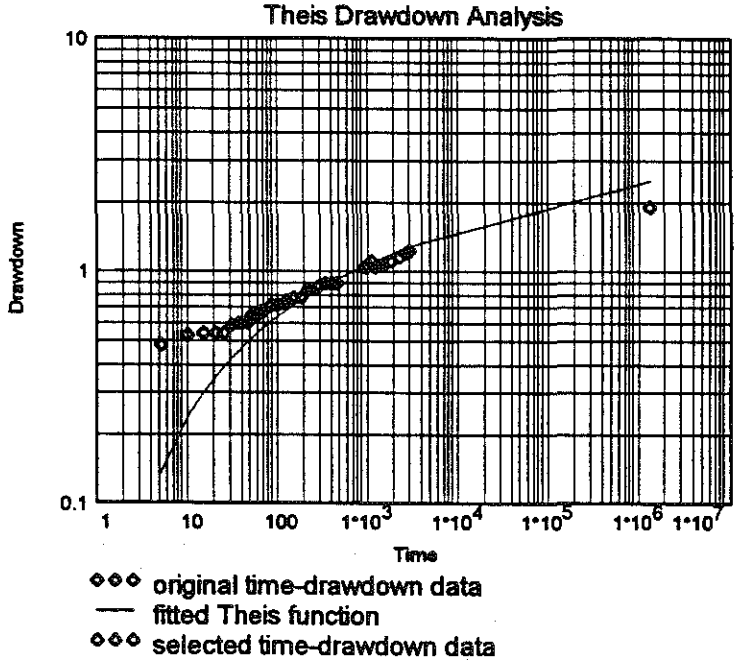
$$S = \frac{2.25\ (T)\ (t)}{r_0^2} \qquad S = \frac{2.25 \times 26{,}814 \times 38}{(6{,}800)^2}$$

Storativity (S) 0.05 or 5%



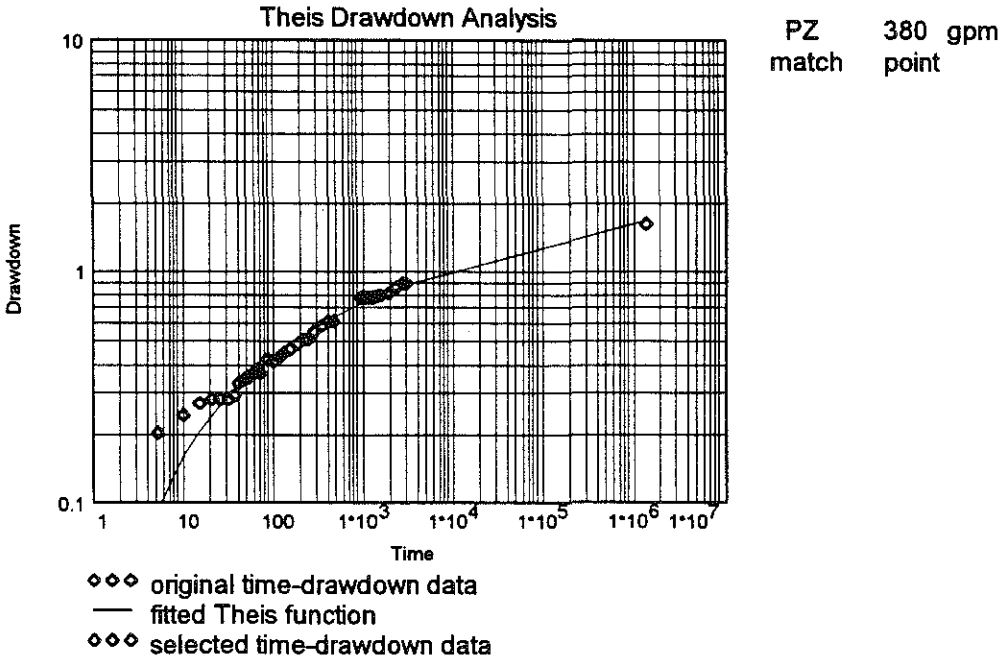
SUMMARY SHEET

Name of data file	PZ-01
Number of data points in file	n = 38
Units of drawdown	L1 = 1 · ft
Units of time	T1 = 1 · min
Pumping rate	$Q = 380 \cdot \frac{gal}{min}$
Radial distance from pumping well to observation well	r = 50 · ft
Saturated aquifer thickness	b = 67.8 · ft
Transmissivity estimate	$T = 3.06 \cdot 10^{4} \cdot \frac{ft^2}{day}$
Storage coefficient estimate	$S = 6.81 \cdot 10^{-2}$
Specific storage coefficient	$S_s = 3.29 \cdot 10^{-3} \cdot m^{-1}$
Radial hydraulic conductivity	$K_r = 4.52 \cdot 10^{2} \cdot \frac{ft}{day}$
Estimate of time match-point	$t_S = 2$
Estimate of drawdown match-point	$s_D = 0.19$
Squared sum of errors	$SS_e = 2.32 \cdot 10^{-2}$

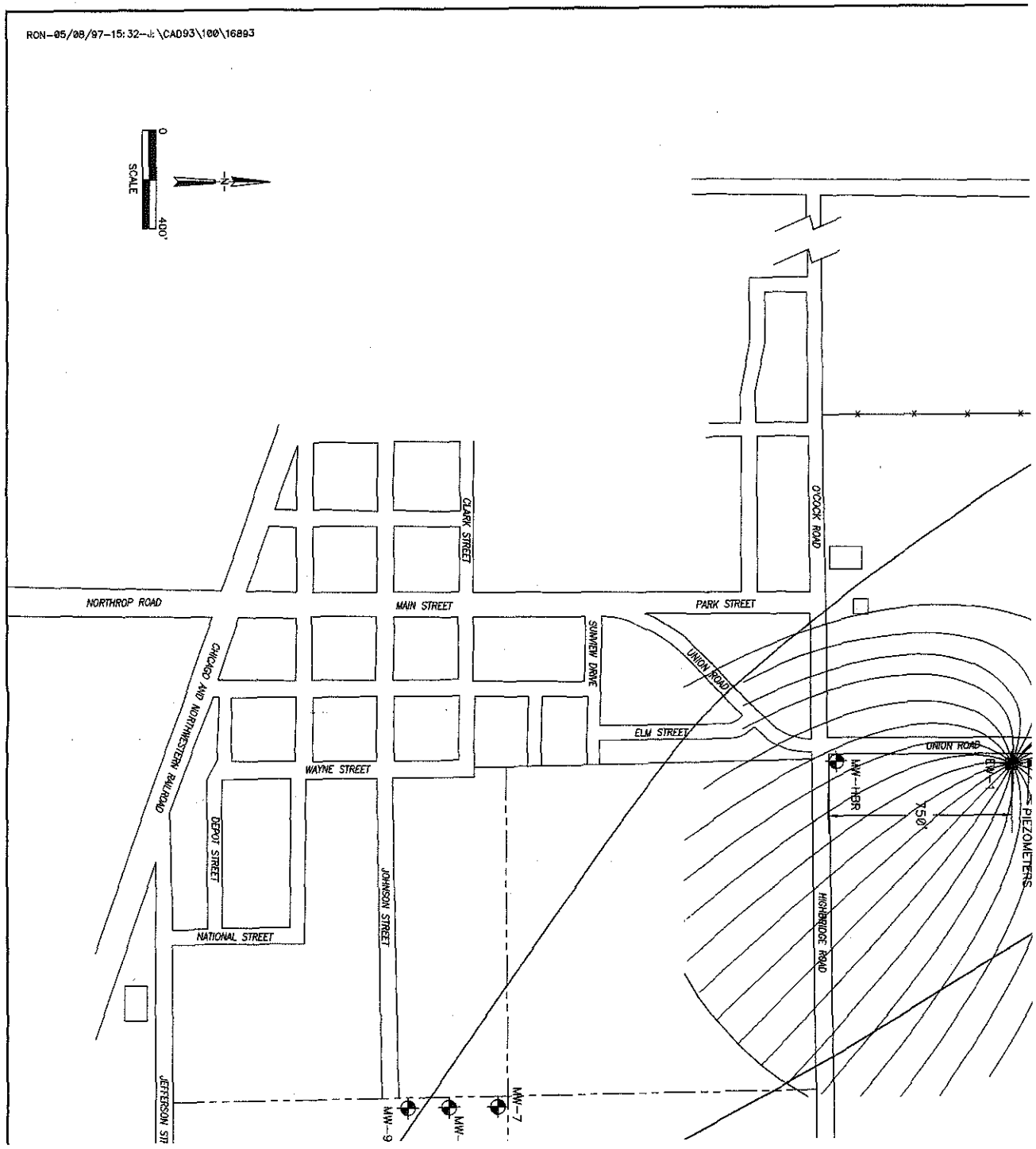


SUMMARY SHEET

Name of data file	PZ-02
Number of data points in file	n = 38
Units of drawdown	L1 = 1 ·ft
Units of time	T1 = 1 ·min
Pumping rate	$Q = 380 \cdot \frac{gal}{min}$
Radial distance from pumping well to observation well	r = 100 ·ft
Saturated aquifer thickness	b = 67.8 ·ft
Transmissivity estimate	$T = 4.48 \cdot 10^{4} \cdot \frac{ft^2}{day}$
Storage coefficient estimate	$S = 2.49 \cdot 10^{-2}$
Specific storage coefficient	$S_s = 1.2 \cdot 10^{-3} \cdot m^{-1}$
Radial hydraulic conductivity	$K_r = 6.60 \cdot 10^{2} \cdot \frac{ft}{day}$
Estimate of time match-point	$t_S = 2$
Estimate of drawdown match-point	$s_D = 0.13$
Squared sum of errors	$SS_e = 1.21 \cdot 10^{-3}$



RON-05/08/97-15:32-J:\CAD93\100\16893



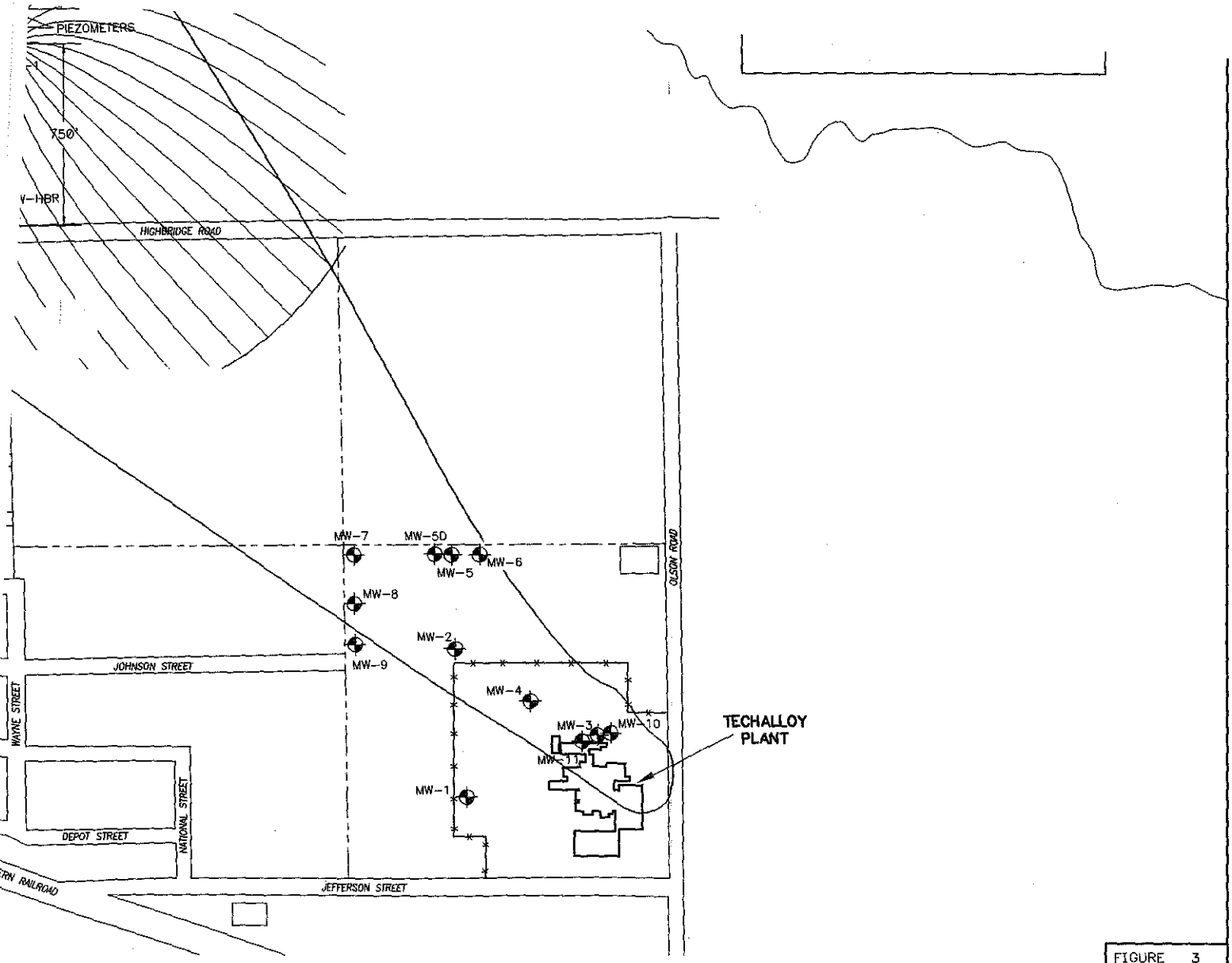


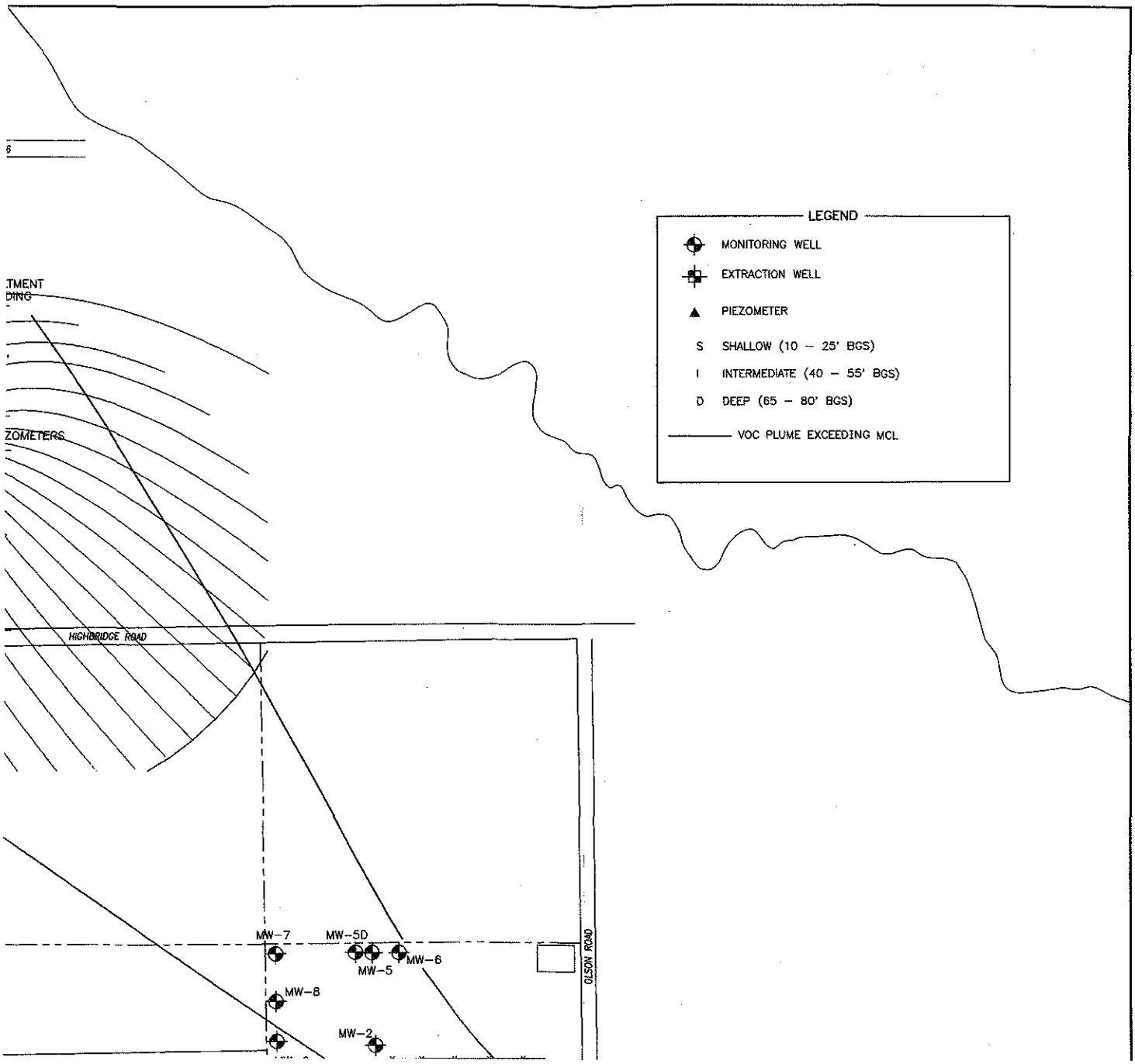
FIGURE 3

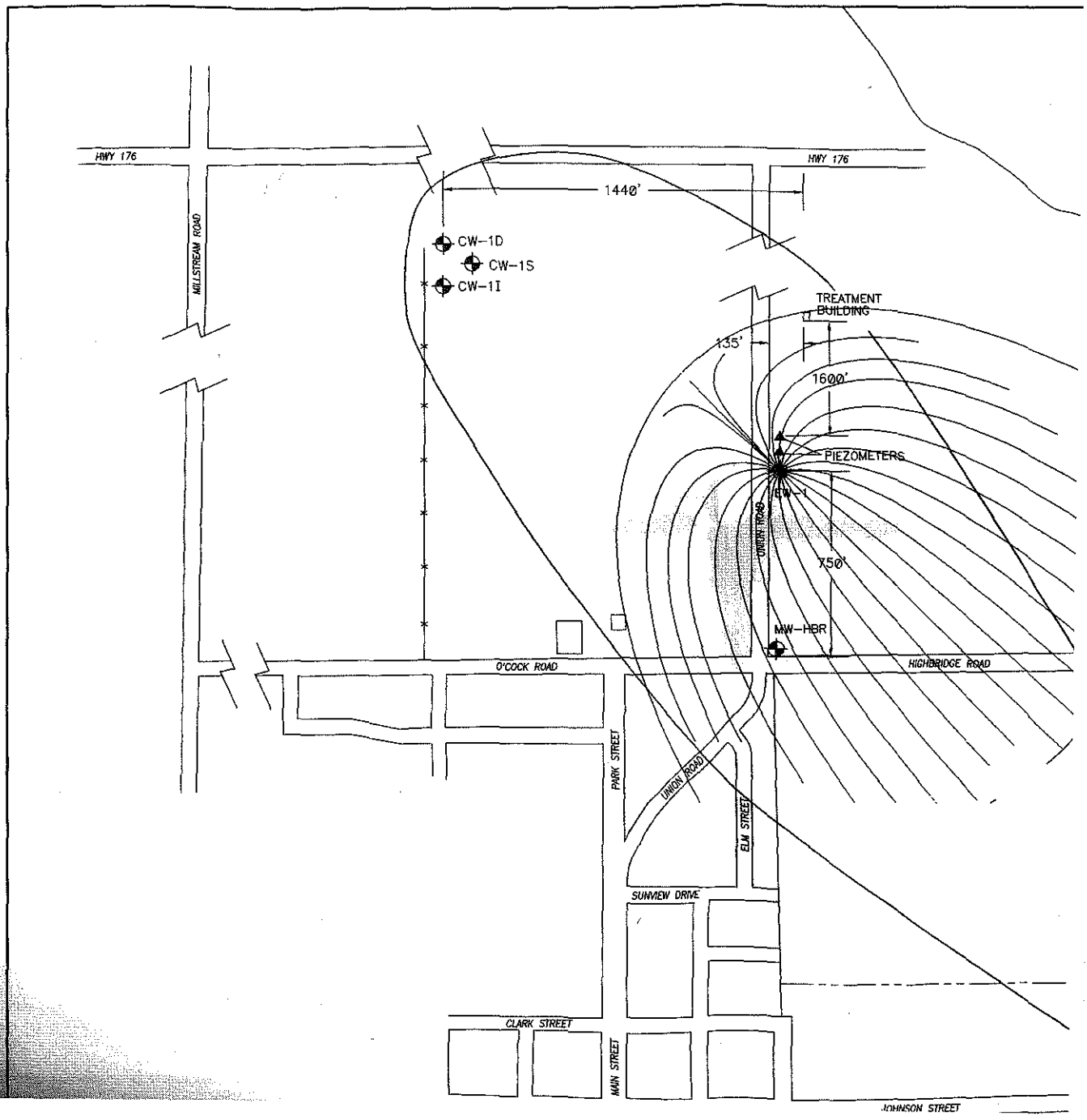
WESTON MANAGERS DESIGNERS/CONSULTANTS

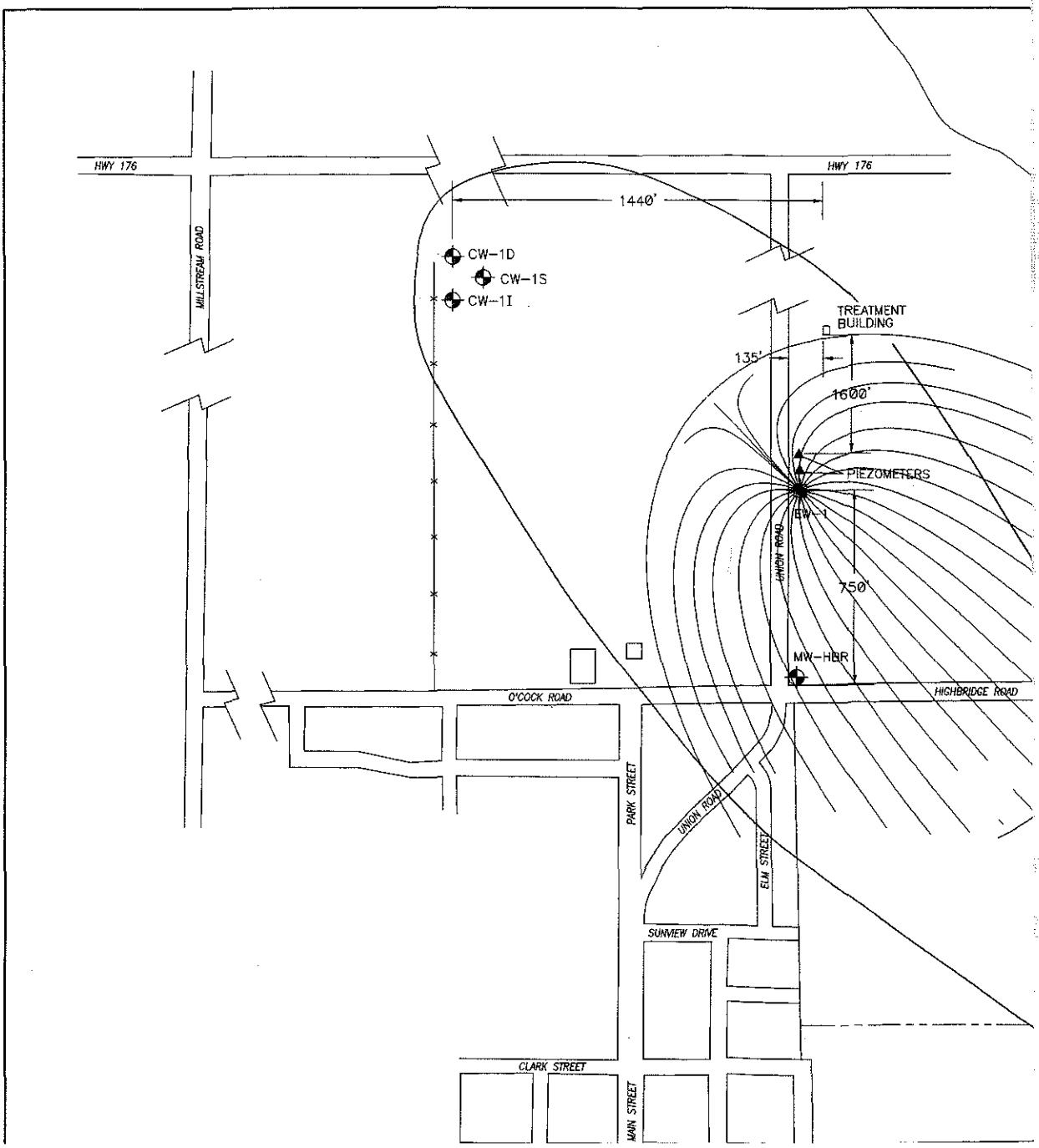
Three Hawthorn Parkway
Vernon Hills, Illinois
60061

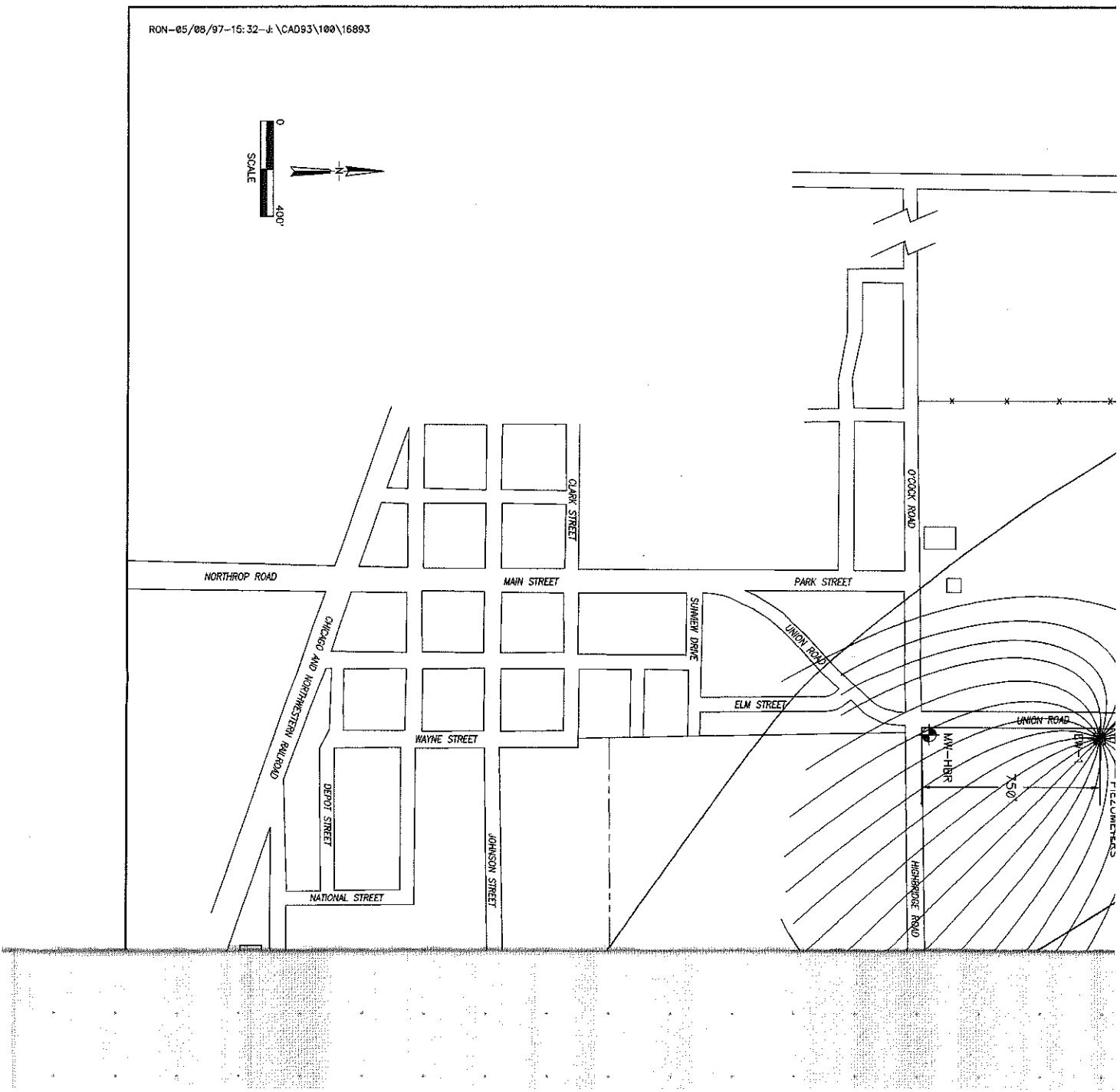
CAPTURE ZONE AT 380 GPM

TECHALLOY COMPANY, INC.
Union, Illinois


LEGEND
MONITORING WELL
EXTRACTION WELL
PIEZOMETER
S SHALLOW (10 – 25' BGS)
I INTERMEDIATE (40 – 55' BGS)
D DEEP (65 – 80' BGS)
VOC PLUME EXCEEDING MCL
HIGHBRIDGE ROAD
OLSON ROAD
MW–7
MW–5D
MW–5
MW–6
MW–8
MW–2


HWY 176
HWY 176
MILLSTREAM ROAD
1440'
CW-1D
CW-1S
CW-1I
TREATMENT BUILDING
135'
1600'
PIEZOMETERS
EW-1
UNION ROAD
750'
MW-HBR
O'COCK ROAD
HIGHBRIDGE ROAD
PARK STREET
UNION ROAD
ELM STREET
SUNVIEW DRIVE
CLARK STREET
MAIN STREET
JOHNSON STREET


HWY 176
HWY 176
1440'
MILLSTREAM ROAD
CW-1D
CW-1S
CW-1I
TREATMENT BUILDING
135'
1600'
PIEZOMETERS
BW-1
UNION ROAD
750'
MW-HBR
HIGHBRIDGE ROAD
O'COCK ROAD
PARK STREET
UNION ROAD
ELM STREET
SUNVIEW DRIVE
CLARK STREET
MAIN STREET


RON-05/08/97-15:32-J:\CAD93\100\16893
SCALE
0
400'
N
CLARK STREET
O'COCK ROAD
NORTHROP ROAD
MAIN STREET
PARK STREET
SUNNEW DRIVE
UNION ROAD
CHICAGO AND NORTHWESTERN RAILROAD
ELM STREET
WAYNE STREET
DEPOT STREET
JOHNSON STREET
NATIONAL STREET
HIGHBRIDGE ROAD
MW-HBR
150'

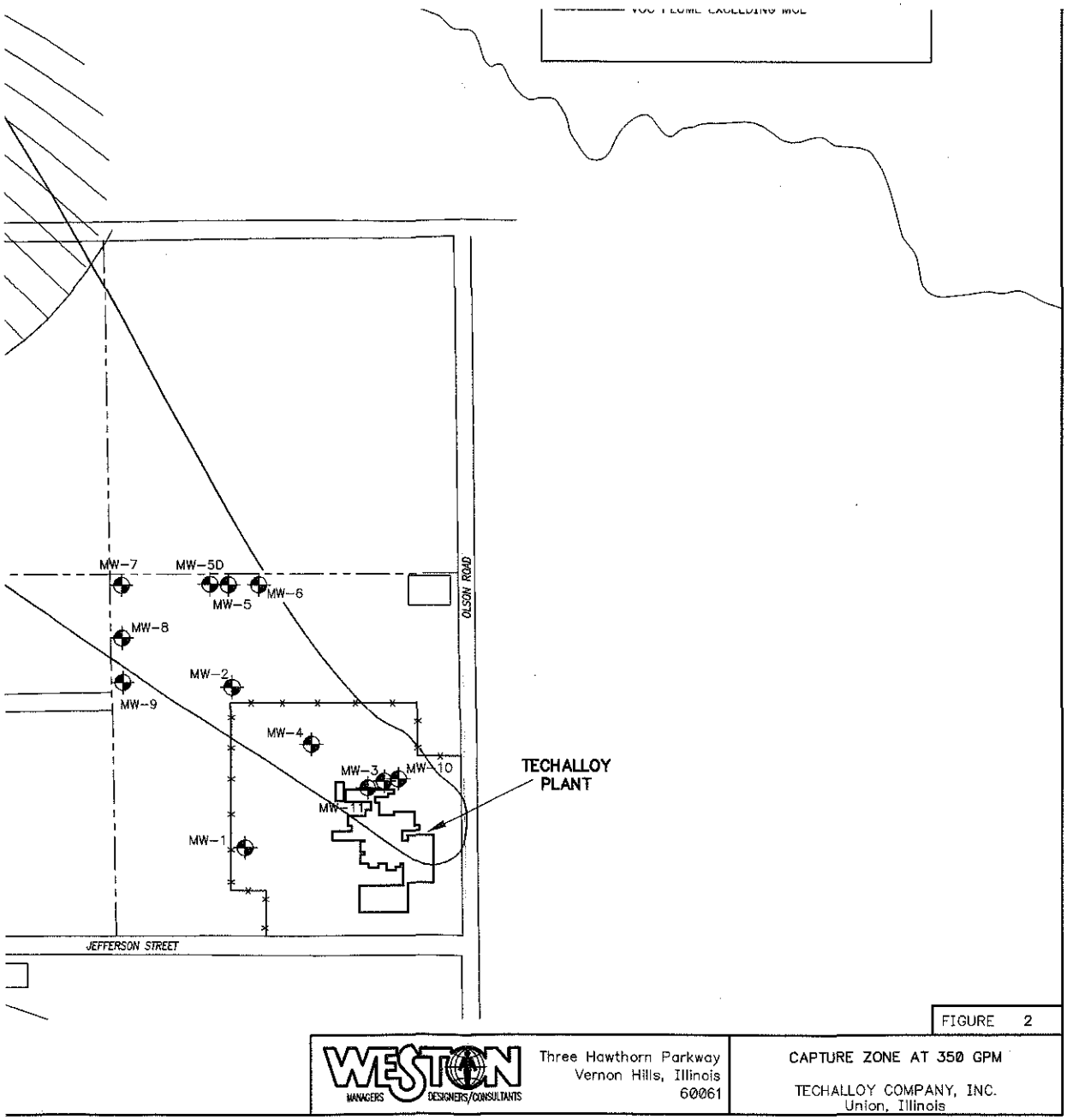


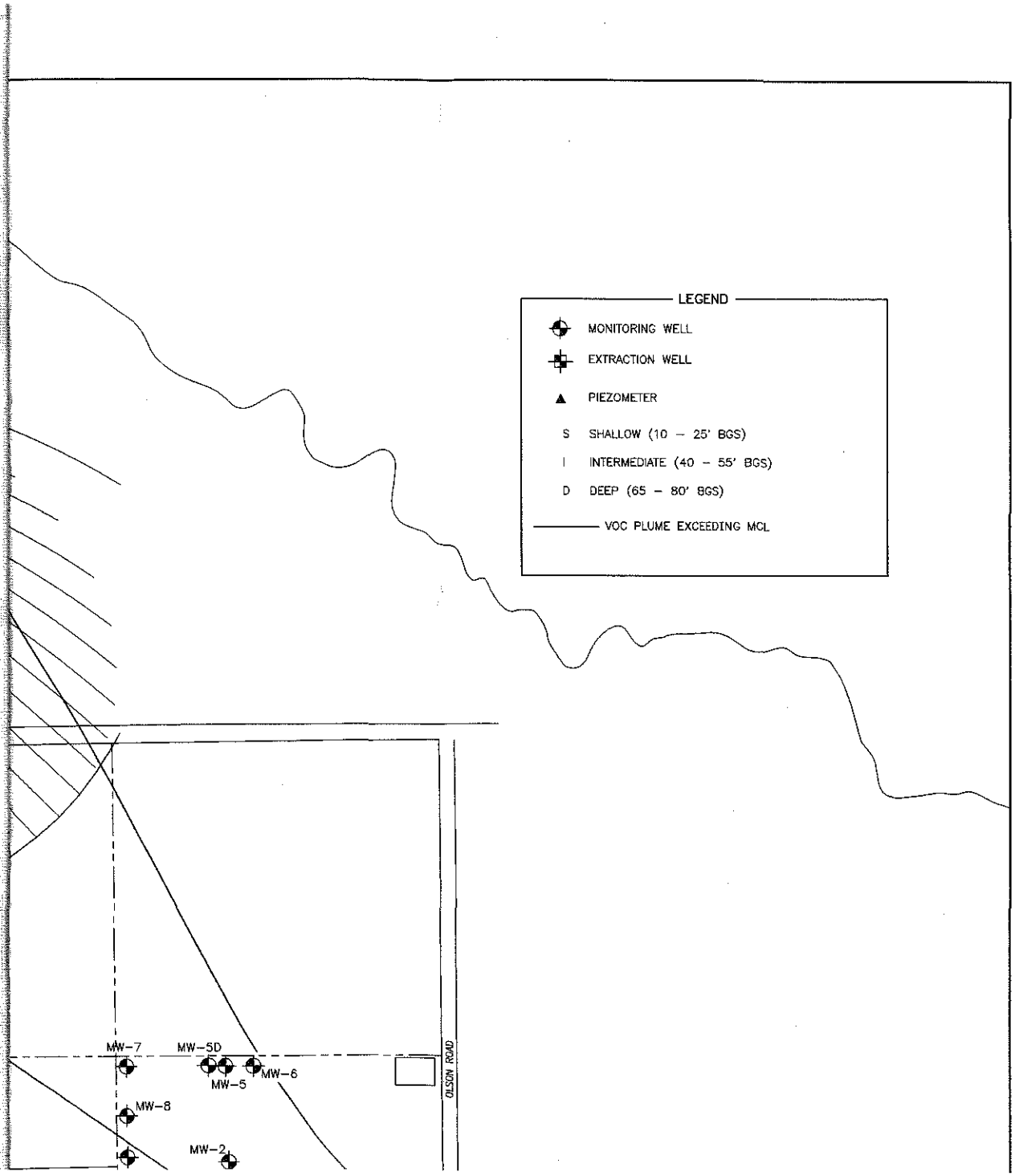
FIGURE 2

WESTON MANAGERS DESIGNERS/CONSULTANTS

Three Hawthorn Parkway
Vernon Hills, Illinois
60061

CAPTURE ZONE AT 350 GPM

TECHALLOY COMPANY, INC.
Union, Illinois


LEGEND
MONITORING WELL
EXTRACTION WELL
PIEZOMETER
S SHALLOW (10 – 25' BGS)
I INTERMEDIATE (40 – 55' BGS)
D DEEP (65 – 80' BGS)
VOC PLUME EXCEEDING MCL
MW-7
MW-5D
MW-5
MW-6
MW-8
MW-2
OLSON ROAD

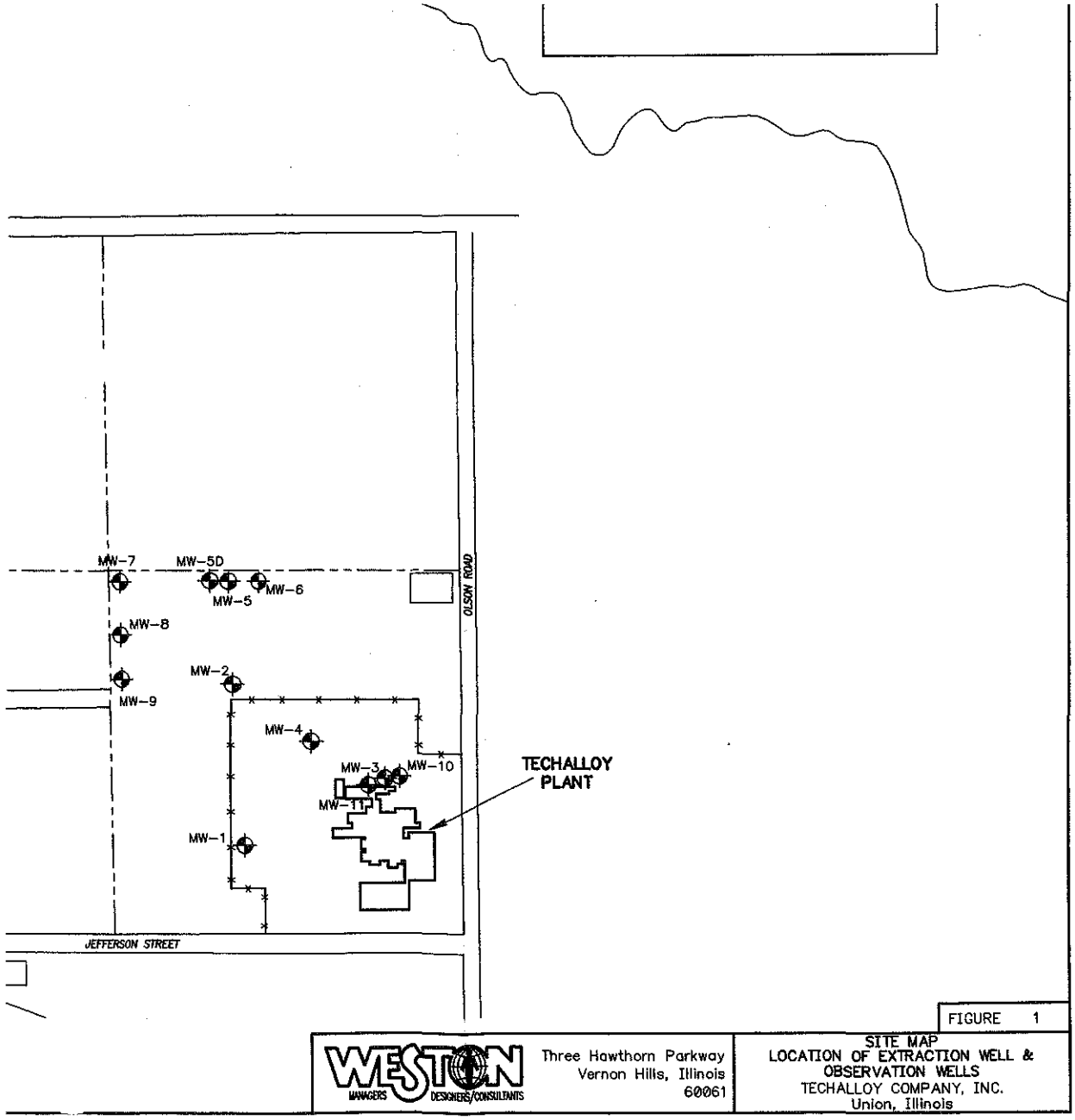
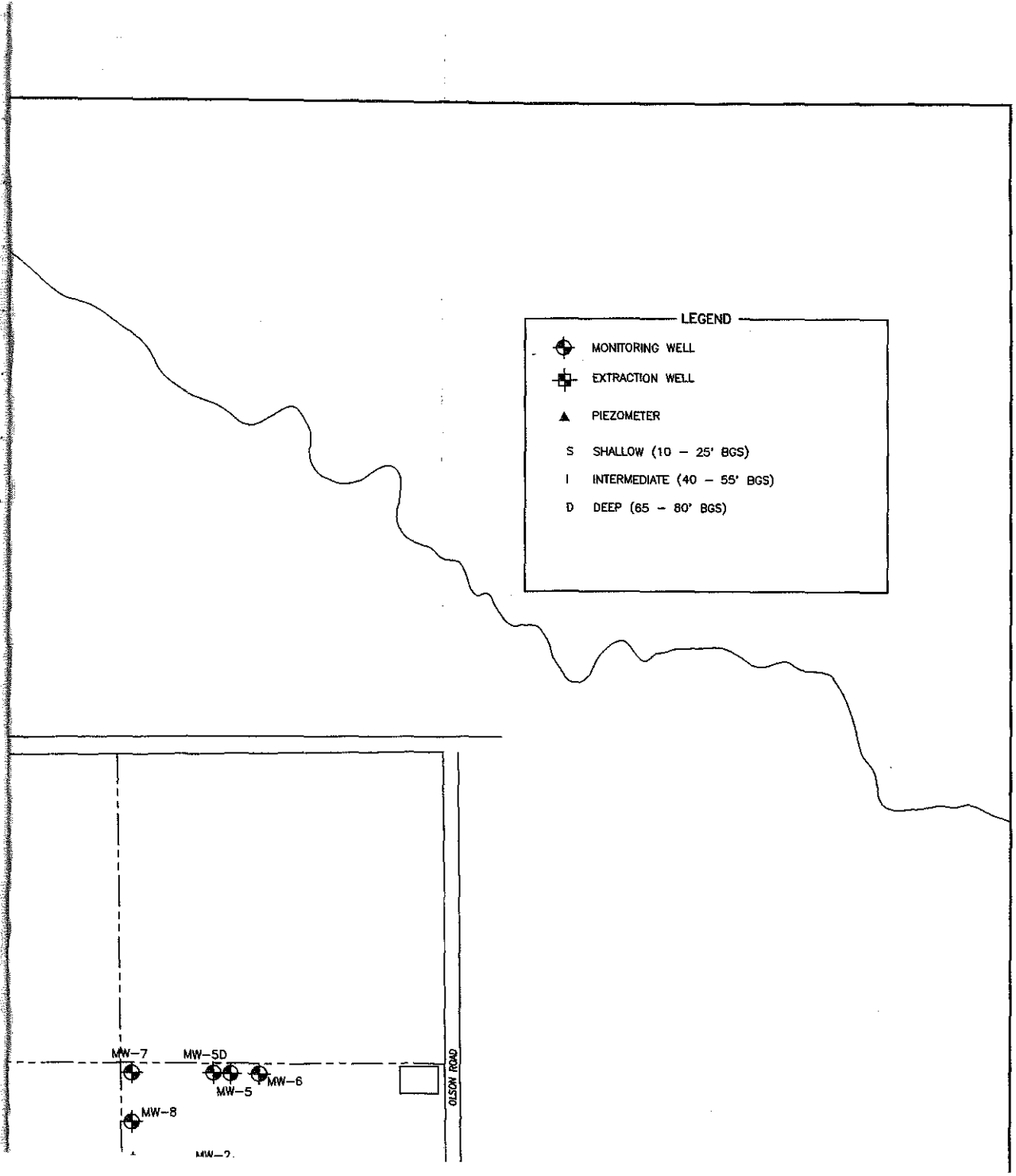


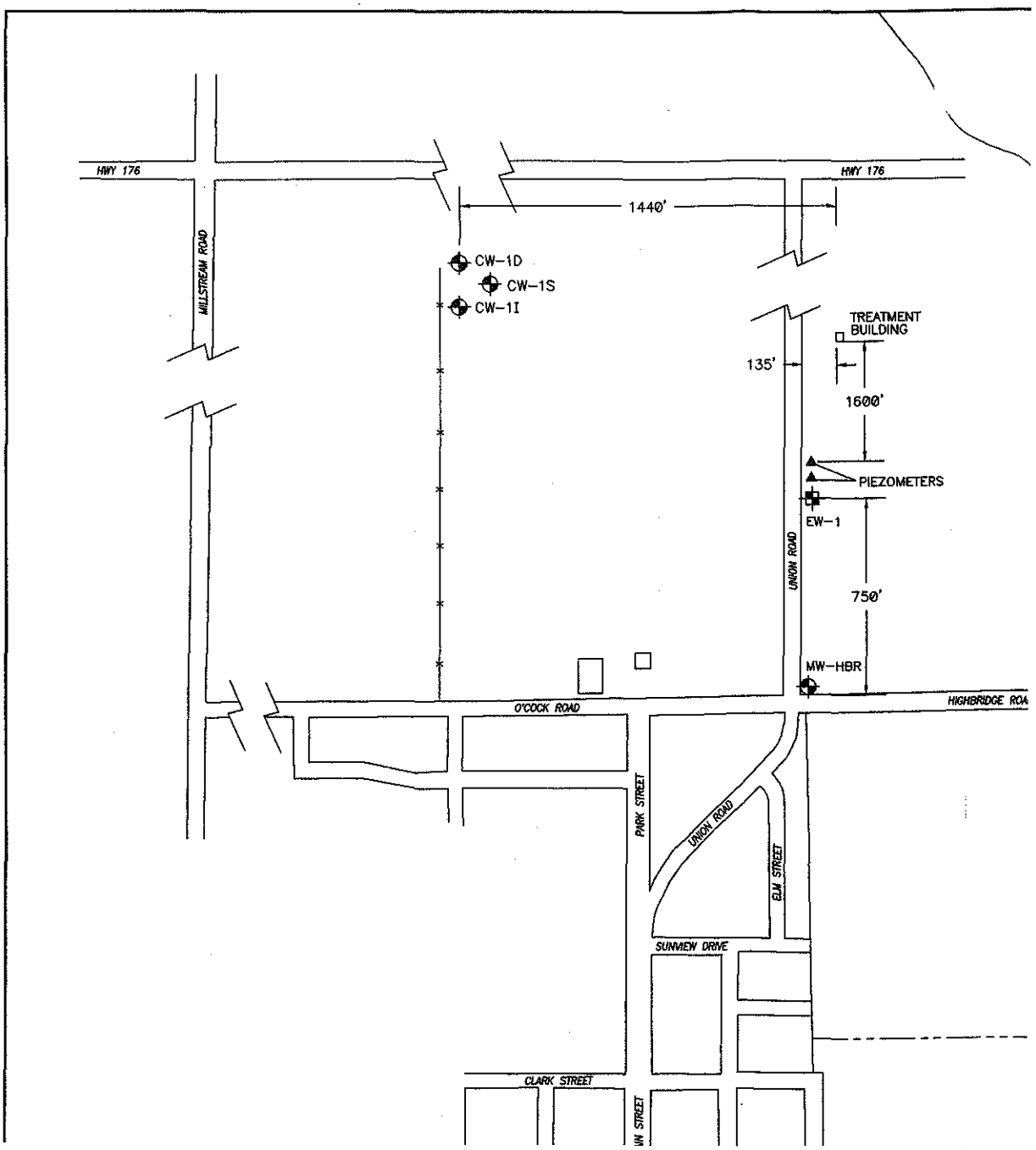
FIGURE 1

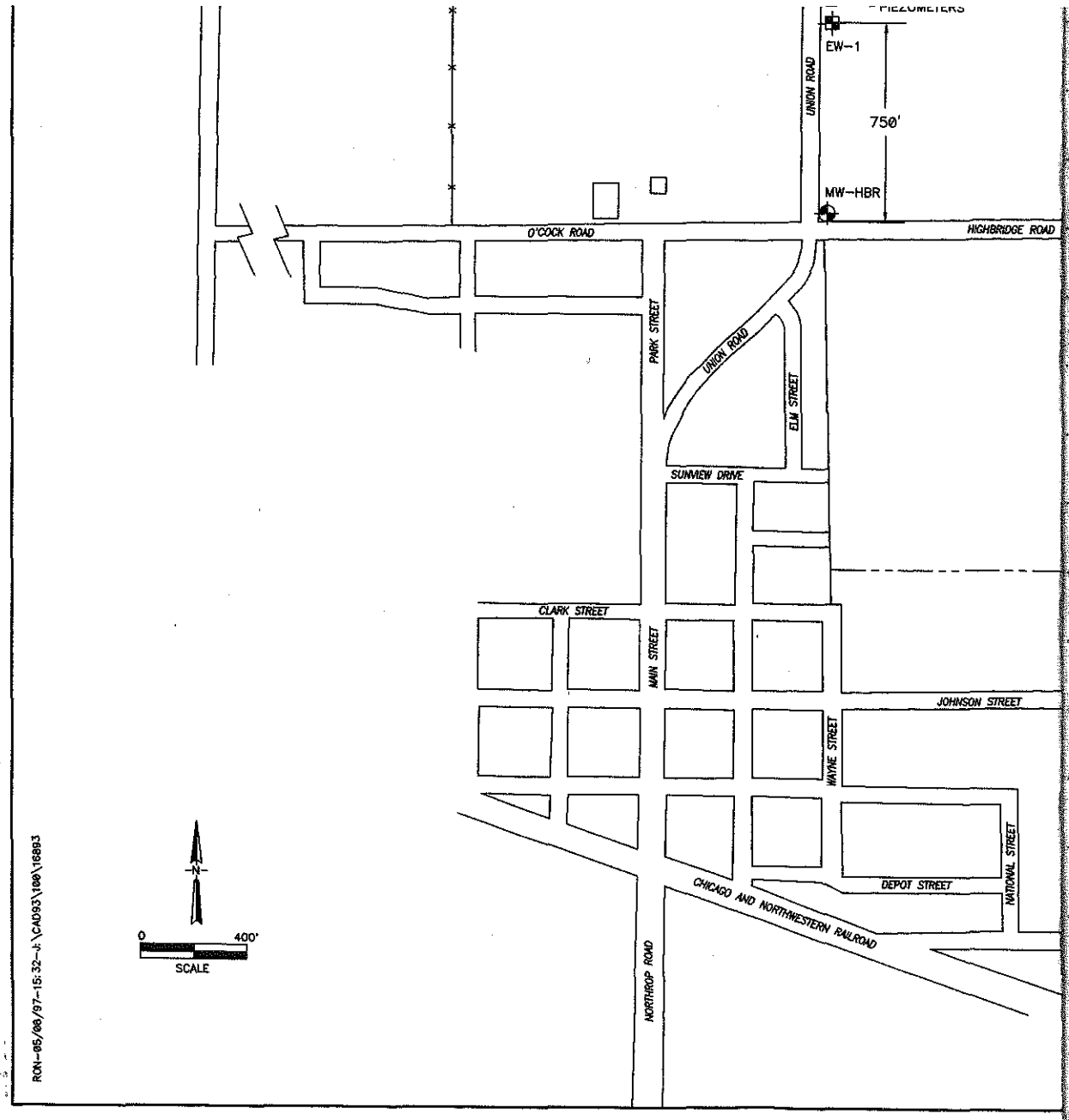
WESTON MANAGERS DESIGNERS/CONSULTANTS

Three Hawthorn Parkway
Vernon Hills, Illinois
60061

SITE MAP
LOCATION OF EXTRACTION WELL & OBSERVATION WELLS
TECHALLOY COMPANY, INC.
Union, Illinois


LEGEND
MONITORING WELL
EXTRACTION WELL
PIEZOMETER
S SHALLOW (10 – 25' BGS)
I INTERMEDIATE (40 – 55' BGS)
D DEEP (65 – 80' BGS)
MW-7
MW-5D
MW-5
MW-6
MW-8
OLSON ROAD


HWY 176
HWY 176
1440'
MILLSTREAM ROAD
CW-1D
CW-1S
CW-1I
TREATMENT BUILDING
135'
1600'
PIEZOMETERS
EW-1
UNION ROAD
750'
MW-HBR
O'COCK ROAD
HIGHBRIDGE ROA
PARK STREET
UNION ROAD
ELM STREET
SUNVIEW DRIVE
CLARK STREET
VN STREET


PIEZOMETERS
EW-1
750'
MW-HBR
UNION ROAD
O'COCK ROAD
HIGHBRIDGE ROAD
PARK STREET
UNION ROAD
ELM STREET
SUNVIEW DRIVE
CLARK STREET
MAIN STREET
JOHNSON STREET
WAYNE STREET
DEPOT STREET
NATIONAL STREET
CHICAGO AND NORTHWESTERN RAILROAD
NORTHROP ROAD
N
0
400'
SCALE
RON-05/08/97-15:32-J:\CAD93\100\16893