# Paragon Analytics

## TOTAL METALS CASE NARRATIVE

**Kent & Sullivan Inc.**

Ross Adams

**Order Number - 0405097**

1. This report consists of 1 solid sample. This report is a re-log of the original sample in order to provide matrix QC.
2. The sample was received intact on 05/11/04. The temperature of the sample upon receipt ranged from $9^o$ to $15^o$ Celsius.
3. The sample was prepared for analysis based on SW-846, 3rd Edition procedures.

   For analysis by Trace ICP and ICP-MS, the sample was digested following method 3050B and PA SOP 806 Rev. 10.
4. The sample was analyzed following SW-846, 3rd Edition procedures.

   Analysis by Trace ICP followed method 6010B and PA SOP 834 Rev. 3.

   The relationship between intensity and concentration for each element is established using at least four standards, one of which is a blank solution. The equation which relates intensity to concentration is:

$$I = A_0 + (A_1 * c^n) + (A_2 * c^{2n})$$

where: $I$ = intensity

$c$ = concentration

$A_0$ = offset coefficient

$A_1$ = gain coefficient

$A_2$ = curvature coefficient

$n$ = exponent coefficient

During sample analysis concentrations are computed by the software and the results are printed in mg/L. The instrument software does not provide a printout which gives both intensity and concentration. The validity of the calibration equation is tested by analyzing the following solutions: a blank, a low level check solution with concentrations near the reporting limit, an Initial Calibration Verification (ICV) standard from a 2nd source standard solution

with concentrations near the middle of the analytical range, a Continuing Calibration Verification (CCV) standard with concentrations at two times those in the ICV, and a readback of the highest calibration standard.

These solutions provide verification that the calibration equations are functioning properly throughout the analytical range of the instrument. During sample analysis dilutions are made for analytes found at concentrations above the highest calibration standard. No results are taken from extrapolations beyond the highest standard.

Analysis by ICP-MS followed method 6020A and PA SOP 827 Rev. 2.

The relationship between intensity and concentration for each element is established using at least four standards, one of which is a blank solution. A linear regression is performed by the instrument software to develop the calibration equation.

During sample analysis concentrations are computed by the software and the results are printed in ug/L. The validity of the calibration equation is tested by analyzing the following solutions: a blank, a low level check solution with concentrations near the reporting limit, an Initial Calibration Verification (ICV) standard from a 2$^{nd}$ source standard solution with concentrations near the middle of the analytical range, a Continuing Calibration Verification (CCV) standard with concentrations near the middle of the analytical range but different than those in the ICV, and a readback of the highest calibration standard.

These solutions provide verification that the calibration equations are functioning properly throughout the analytical range of the instrument. During sample analysis dilutions are made for analytes found at concentrations above the highest calibration standard. No results are taken from extrapolations beyond the highest standard.

Analysis by CVAA followed method 7471A and PA SOP 812 Rev. 10.

The relationship between intensity and concentration is determined daily, prior to sample analysis. At least five standards and a blank solution are analyzed to establish the calibration curve. The instrument software performs a linear regression to fit the calibration data to a curve of the form:

$$\text{conc.} = B * I + C$$

where: conc. = concentration

B = slope coefficient

I = intensity

C = intercept coefficient

A printout summarizing the calibration data supplies the calibration curve and correlation coefficient. During sample analysis both intensity and concentration values are printed. Dilutions are made for concentrations above

the highest calibration standard. No results are taken from extrapolations above the highest standard.

5. All standards and solutions are NIST traceable and were used within their recommended shelf life.
6. The sample was prepared and analyzed within the established hold times.

All in house quality control procedures were followed, as described below.

7. General quality control procedures.
   - A preparation (method) blank and laboratory control sample were digested and analyzed with the samples in this digestion batch. There were not more than 20 samples in the digestion batch.
   - The preparation (method) blank associated with this digestion batch was below the practical quantitation limit for each requested analyte.
   - The laboratory control sample associated with this digestion batch was within the acceptance limits. This indicates complete digestion according to the method.
   - All initial and continuing calibration blanks associated with each analytical batch were below the practical quantitation limits for the requested analytes.
   - All initial and continuing calibration verifications associated with each analytical batch were within the acceptance criteria for the requested analytes. This indicates a valid calibration and stable instrument conditions.
   - The high standard readbacks associated with Method 6010B and 6020A analyses were within acceptance criteria.
   - The interference check samples associated with Method 6010B analyses were within acceptance criteria.
   - The interference check samples associated with Method 6020A were analyzed.
8. Matrix specific quality control procedures.

   Sample 0405097-6 was designated as the quality control sample for each analysis.

   Similarity of matrix and therefore relevance of the QC results should not be automatically inferred for any sample other than the native sample selected for QC.

   - A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for accuracy were met with the following exception:

     | Analyte | Sample ID |
     |---|---|
     | Uranium | 0405097-6MSD |

     The native sample result is flagged for matrix spike failure and an analytical post spike was performed. Results of the spike were acceptable indicating that the matrix was not significantly affecting quantitation of this analyte.

- A sample duplicate and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.
- A serial dilution was analyzed with each batch. All acceptance criteria were met.

9. It is a standard PA practice that samples for ICP-MS are analyzed at a dilution.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, Paragon Analytics certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Darryl Patrick — 9/23/04

Darryl Patrick
Data Reporting Specialist

Date

GW — 9/23/04

Reviewer's Initials

Date

# Paragon Analytics

## Sample Number(s) Cross-Reference Table

**Paragon OrderNum:** 0405097
**Client Name:** Kent & Sullivan Inc.
**Client Project Name:** Ross Adams
**Client Project Number:**
**Client PO Number:**

| Client Sample | Lab Sample Number | COC Number | Matrix | Date Collected | Time Collected |
|---|---|---|---|---|---|
| HR-01 | 0405097-1 | | SOLID | 06-May-04 | 19:00 |
| MR-01 | 0405097-2 | | SOLID | 07-May-04 | 13:30 |
| MR-02 | 0405097-3 | | SOLID | 07-May-04 | 13:20 |
| GR-01 | 0405097-4 | | SOLID | 07-May-04 | 13:11 |
| GR-02 | 0405097-5 | | SOLID | 07-May-04 | 13:38 |
| GR-03 | 0405097-6 | | SOLID | 07-May-04 | 14:00 |
| GR-04 | 0405097-7 | | SOLID | 07-May-04 | 14:20 |
| GR-05 | 0405097-8 | | SOLID | 07-May-04 | 14:38 |
| GR-06 | 0405097-9 | | SOLID | 07-May-04 | 14:58 |
| GR-07 | 0405097-10 | | SOLID | 07-May-04 | 15:10 |
| GR-08 | 0405097-11 | | SOLID | 07-May-04 | 15:10 |
| GR-09 | 0405097-12 | | SOLID | 07-May-04 | 15:20 |
| GR-10 | 0405097-13 | | SOLID | 07-May-04 | 15:35 |
| QM-01 | 0405097-14 | | SOLID | 03-May-04 | 13:40 |
| QM-02 | 0405097-15 | | SOLID | 03-May-04 | 14:00 |
| QM-03 | 0405097-16 | | SOLID | 03-May-04 | 14:20 |
| 300-01 | 0405097-17 | | SOLID | 04-May-04 | 9:50 |
| 300-02 | 0405097-18 | | SOLID | 07-May-04 | 16:30 |
| 700-01 | 0405097-19 | | SOLID | 07-May-04 | 17:00 |
| 700-02 | 0405097-20 | | SOLID | 07-May-04 | 17:30 |
| 700-03 | 0405097-21 | | SOLID | 07-May-04 | 17:20 |
| 700-04 | 0405097-22 | | SOLID | 07-May-04 | 18:00 |
| 900-01 | 0405097-23 | | SOLID | 07-May-04 | 13:00 |
| 900-02 | 0405097-24 | | SOLID | 07-May-04 | 12:10 |
| 900-03 | 0405097-25 | | SOLID | 07-May-04 | 12:30 |
| 900-04 | 0405097-26 | | SOLID | 07-May-04 | 19:00 |
| 900-05 | 0405097-27 | | SOLID | 07-May-04 | 18:40 |
| OSA-01 | 0405097-28 | | SOLID | 06-May-04 | 14:00 |
| OSA-02 | 0405097-29 | | SOLID | 06-May-04 | 19:00 |
| OSA-03 | 0405097-30 | | SOLID | 06-May-04 | 17:00 |

Chain of Custody

**Paragon Analytics, Inc.**

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

# Chain-of-Custody

Accession Number (LAB ID) 0405097

Date _____ Page 6 of 9

Project Name / No.: _____ Sampler(s): _____ (circle one) Turnaround: Standard or Rush (Due _____) Dispose or Return to Client

Report To:
Phone:
Fax:
Company:
Address:
see pg 1

circle method or specify under comments

| Sample ID | Date 2004 | Time * | Lab ID | Matrix | No. of Containers | VOCs SW8260B E624 E524.2 OLMO__ | BTEX (only) SW8021B | SVOCs SW8270C E625 E625 OLMO__ | OC Pesticides SW8081A E608 E508 OLMO__ | PCBs SW8082 E608 E508 OLMO__ | OP Pesticides SW8141A E614 | Herbicides SW8151A E615 | TCLP Organics SW1311 8260B 8270C 8081A 8151A | TCLP Metals SW 1311 6010B 7471 | Total Metals SW6010B 7470 7471 E200 ILMO__ | Dissolved Metals SW6010B 7470 E200 ILMO__ | Reactive CN / S SW846 Chapter 7 | Hexavalent Chromium SW7196A Alkaline Digest? Y / N | Inorganic Anions ** SW9056 E300.0 | pH SW9040B 9045C | Oil & Grease SW9071A E413.2 | TPH GRO DRO SW8015B (both) | TOX SW9020B | Gross Alpha / Beta SW9310 E900.0 | Actinides by PAI SOP (circle) Pu / U / Am / Th / Cm | Uranium by KPA D5174-91 isotopic | Tritium E906.0 | Total Alpha-Emitting Radium SW9315 E903.0 | Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0 | Strontium 89 D5811-95 Strontium 90 D5811-95 | Gamma Isotopes ** E901.1 | Th isotopic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MR-01 | 5-7 | 1330 | 2 | RK | 3 | | | | | | | | | | C | | | | | | | | | | | X | | | X | | | X |
| MR-02 | 5-7 | 1320 | 3 | RK | 3 | | | | | | | | | | C | | | | | | | | | | | X | | | X | | | X |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GR-01 | 5-7 | 1311 | 4 | RK | 1 | | | | | | | | | | C | | | | | | | | | | | X | | | X | | | X |
| GR-02 | | 1338 | 5 | | 1 | | | | | | | | | | C | | | | | | | | | | | | | | | | | |
| GR-03 | | 1400 | 6 | | 1 | | | | | | | | | | C | | | | | | | | | | | | | | | | | |
| GR-04 | | 1420 | 7 | | 1 | | | | | | | | | | C | | | | | | | | | | | | | | | | | |
| GR-05 | | 1438 | 8 | | 1 | | | | | | | | | | C | | | | | | | | | | | | | | | | | |
| GR-06 | | 1458 | 9 | | 1 | | | | | | | | | | C | | | | | | | | | | | | | | | | | |
| GR-07 | | 1510 | 10 | | 1 | | | | | | | | | | C | | | | | | | | | | | | | | | | | |

Comments:

Relinquished By: (1)
Signature Gerald Warrick
Printed Name Gerald Warrick
Date 5-10-04 Time 10:00
Company Kent + Sullivan

Relinquished By: (2)
Signature _____
Printed Name _____
Date _____ Time _____
Company _____

Received By: (1)
Signature _____
Printed Name Amy Wolf
Date 5/11/04 Time 10:15
Company Paragon Analytics

Received By: (2)
Signature _____
Printed Name _____
Date _____ Time _____
Company _____

Form 202r4.xls (1/3/01)

* Time Zone (circle one): EST CST MST PST

** Indicate specific analytes under comments.

Distribution: white / yellow (Paragon); pink retained by originator.

**Paragon Analytics**
A Division of DataChem Laboratories, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID)
**Chain-of-Custody** Date 5/17/04 Page 1 of 3

**Originator:** Retain pink copy

Project Name / No.: Ross Adams Sampler(s): _____ Turnaround (circle one): **Standard** or **Rush (Due** _____ **)** Dispose: **Date** _____ or **Return** to Client

**Report To:** Debbie Fazio
**Phone:** 970 490 1511
**Fax:** 970 490 1522
**E-mail:** dfazio@paragonlabs.com
**Company:** Paragon Analytics Inc
**Address:** 225 Commerce Dr
Fort Collins CO 80524

Circle method (right); provide additional information as needed (comments).

| Sample ID | Date | Time * | Lab ID | Matrix | Preservative (indicate type) | No. of Containers | VOCs SW8260B E624 E524.2 | BTEX (only) SW8021B | SVOCs SW8270C E625 | OC Pesticides SW8081A E608 | PCBs SW8082 E608 | Herbicides SW8151A | Explosives SW8330 | TCLP Organics SW1311 SW8260B 8270C 8081A 8151A | TCLP Metals SW1311 SW6010B SW7471 | Total Metals by ICP SW6010B 7470 7471 E200 ILMO___ | Dissolved Metals by ICP SW6010B 7470 E200 ILMO___ | Total Metals by ICP/MS SW6020 E200.8 ILMO___ | Dissolved Metals by ICP/MS SW6020 E200.8 ILMO___ | Hexavalent Chromium SW7196A Alkaline Digest? Y / N | Inorganic Anions SW9056 E300.0 (specify in comments) | Solids: Total E160.3 TDS E160.1 TSS E160.2 | pH SW9040B SW9045C | TPH GRO DRO SW8015B (both) | Gross Alpha / Beta SW9310 E900.0 | Actinides by Paragon SOP Pu / U / Am / Th / Cm / ___ | Tritium E906.0 | Total Alpha-Emitting Radium SW9315 E903.0 | Radium 226 E903.1 | Radium 228 SW9320 E904.0 | Strontium 89 D5811-00 | Strontium 90 D5811-00 | Gamma Isotopes E901.1 | Sample Size reduction | Paragon Lab ID C405097 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 700-01 | 5/7/04 | 1700 | | RK | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | 19 | | |
| 700-02 | ↓ | 1730 | | ↓ | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | 20 | | |
| 900-01 | ↓ | 1300 | | ↓ | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | 23 | | |
| OSA-01 | 5/6/04 | 1400 | | ↓ | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | 28 | | |
| HR-01 | 5/6/04 | 1900 | | ↓ | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | 01 | | |
| MR-01 | 5/7/04 | 1330 | | ↓ | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | 02 | | |
| MR-02 | ↓ | 1320 | | ↓ | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | 03 | | |
| GR-01 | ↓ | 1311 | | ↓ | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | 04 | | |
| GR-02 | ↓ | 1338 | | ↓ | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | 05 | | |
| GR-03 | ↓ | 1400 | | ↓ | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | 06 | | |
| GR-05 | ↓ | 1420 | | ✓ | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | 07 | | |

* Time Zone: EST CST MST PST **Matrix Key:** O = oil, S = soil, NS = non-soil solid, W = water, L = liquid, E = extract, F = filter

**Comments:**
As Discussed 1 wk tat
must be crushed in order of increasing Activity
→ Sample GR-04 also received. J Jarris 5/19/04

Form 202r5.xls (4/6/04)

| Relinquished By: (1) | Relinquished By: (2) |
|---|---|
| Signature: [signature] | Signature: [signature] |
| Printed Name: C Orchard | Printed Name: John O. Jarris |
| Date: 5-18-04 Time: 1630 | Date: 06/07/04 Time: 11:00 |
| Company: PA Datachem | Company: Hazen |

| Received By: (1) | Received By: (2) |
|---|---|
| Signature: John C. Jarris | Signature: [signature] |
| Printed Name: John C. Jarris | Printed Name: Heather Workman |
| Date: 5/19/04 Time: 10:30 AM | Date: 6/8/04 Time: 0740 |
| Company: Hazen | Company: UPS Paragon |

MW 6/8/04

8

# Paragon Analytics, Inc. -- Fort Collins, Colorado

## CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: Kent + Sullivan WORKORDER NO: 0405097

PROJECT MANAGER: Debbie Fazio INITIALS: [illegible] DATE: 5/12/04

| | | | |
|---|---|---|---|
| 1. Does this project require any special handling in addition to standard Paragon procedures? | | Yes | No |
| **IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)** | | Yes | No |
| 2. Are custody seals on shipping containers intact? How many custody seals are provided? 2 each | N/A | Yes | No |
| 3. Are the custody seals on sample containers intact? | N/A | Yes | No |
| 4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos? | | Yes | No |
| 5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___ | N/A | Yes | No |
| 6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___ | N/A | Yes | No |
| 7. Were COC (if applicable) and sample labels legible? | | Yes | No |
| 8. Were airbills present and/or removable? | N/A | Yes | No |
| 9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)? | N/A | Yes | No |
| Are all aqueous **non-preserved** samples at the correct pH? | | Yes | No |
| 10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers? | | Yes | No |
| 11. Are all samples within holding times for the requested analyses? | | Yes | No |
| 12. Were all sample containers received intact? (not broken or leaking, etc.) | | Yes | No |
| 13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble: ___ < green pea; ___ > green pea** (List sample IDs and affected containers on Page 2) | N/A | Yes | No |
| 14. Were samples checked for and free from the presence of residual chlorine? | N/A | Yes | No |
| 15. Were the sample(s) shipped on ice? | N/A | Yes | No |
| 16. Were cooler temperatures measured at 0.1 - 6 °C ? **IR Gun Used*: 1 2** | N/A | Yes | No |
| 17. Were all samples cooled that should have been cooled? | N/A | Yes | No |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Cooler #'s** | 924 | 898 | 897 | 749 | 868 | 22 | |
| **Temperature** | 10° | 10° | 9° | 15° | 12° | 14° | °C |

**Project Manager Signature / Date:** Debbie Fazio 5/12/04

A NO RESPONSE TO ANY QUESTION EXCEPT # 1 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

* IR Gun #1 (original): Raytek, SN SC-PM3/T29403
IR Gun #2 (newer): Oakton, SN 2SCIR1201

**Paragon Analytics, Inc. -- Fort Collins, Colorado**

**CONDITION OF SAMPLE UPON RECEIPT FORM**

CLIENT: Kent & Sullivan WORKORDER NO: 0405097

PROJECT MANAGER: Debbie Fazio INITIALS: DW DATE: 5/12/04

- [ ] **Custody seals** broken (on outside of shipping container or on sample containers).
- [ ] No Chain-of-Custody (**COC**) present.
- [ ] **Number of samples** on the COC do not match the number of samples received.
- [ ] Aqueous samples **not preserved correctly** (see pH discussion below).
- [ ] SVOC samples contained **residual chlorine** (list sample IDs and affected containers below).
- [x] Samples received at **inappropriate temperature.**
- [ ] **Insufficient sample** to perform requested analyses.
- [ ] Extraction or analytical **holding times** expired in transit.
- [ ] **Broken/leaking bottles** and intact bottles received in same cooler (list affected sample IDs below).
- [ ] **No analyses requested.**
- [ ] **Incorrect sample type** received.
- [ ] VOAs, reactive CN/S, radon not **headspace** free (list sample IDs and affected vials below).
- [ ] **Airbills** not present and/or removable (record applicable shipper's tracking number below).
- [ ] Other (describe below).

Describe discrepancy:

All samples received between 9° - 15° C. Refer to page 1 for cooler temperatures and refer to DOT Survey pages for cooler contents. Insufficient ice packed with samples.

Was the client contacted? ___ No; ✓ Yes: Name Sue Kent Date/Time 5/12/04

Was the pH of any sample adjusted by the laboratory? ___ No; ___ Yes (see Table below):

NOTE: **No pH adjustments shall be made without prior consent of Project Manager. After pH adjustment, hold metals and radchem samples ≥ 16 hr before analysis.**

| *Sample ID* | *Initial pH* | *Final pH (wait 30 min)* | *Type of Reagent Used* | *Lot No. of Reagent Used* | *Initials / Date / Time* |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Was the laboratory directed to proceed with the analysis of any samples yielding the presence of residual chlorine? ___ No; ___ Yes (see notes above).

**Project Manager Signature / Date:** DF 5/12/04

0405096
0405097

[redacted]

1-800-2ALASKA

027 KTN 5436-6152 Box No. 0001

Destination DEN

Pieces 17 | Total Weight 865 | Date 10-MAY-04

14 RAIDOACTIVE COOLERS COOL

3 MT COOLERS 190

#924 2 seals 10 oc

ARTIC 0-0410-3-1635

[redacted]

1-800-2ALASKA

027 KTN 5436-6152 Box No. 0015

Destination DEN

Pieces 17 | Total Weight 865 | Date 10-MAY-04

14 RAIDOACTIVE COOLERS COOL

3 MT COOLERS 140

#898 2 Seals

ARTIC 0-0410-3-1635

[redacted]

1-800-2ALASKA

027 KTN 5436-6152 Box No. 0011

Destination DEN

Pieces 17 | Total Weight 865 | Date 10-MAY-04

14 RAIDOACTIVE COOLERS COOL

3 MT COOLERS 320 9oc

#897 2 seals

ARTIC 0-0410-3-1635

[redacted]

1-800-2ALASKA

027 KTN 5436-6152 Box No. 0002

Destination DEN

Pieces 17 | Total Weight 865 | Date 10-MAY-04

14 RAIDOACTIVE COOLERS COOL

3 MT COOLERS 300 15 oc

#899 2 seals

ARTIC 0-0410-3-1635

0405096
0405097

1-800-2ALASKA

027 KTN 5436-6152 Box No. 0006

Destination

DEN

| Pieces | Total Weight | Date |
|---|---|---|
| 17 | 865 | 10-MAY-04 |

14 RAIDOACTIVE COOLERS COOL

3 MT COOLERS

320

12.

2 seals

ARTIC 0-0410-3-1635

1-800-2ALASKA

027 KTN 5436-6152 Box No. 0010

DEN

| Pieces | Total Weight | Date |
|---|---|---|
| 17 | 865 | 10-MAY-04 |

14 RAIDOACTIVE COOLERS COOL

3 MT COOLERS

260

14.0

2 seals

ARTIC 0-0410-3-1635

Inorganic Qualifiers

**Inorganic Data Reporting Qualifiers**

The following qualifiers are used by the laboratory when reporting results of inorganic analyses.

- Result qualifier -- If the analyte was analyzed for but not detected a "U" is entered.

- QC qualifier -- Specified entries and their meanings are as follows:

  E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

  M - Duplicate injection precision was not met.

  N - Spiked sample recovery not within control limits. A post spike is analyzed for all 6010B and 6020A analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

  Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

  * - Duplicate analysis (relative percent difference) not within control limits.

Sample Results

# Total ICP Metals

## Method SW6010

## Sample Results

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Field ID:** GR-03
**Lab ID:** 0405097-6

**Sample Matrix:** SOLID
**% Moisture:** N/A
**Date Collected:** 07-May-04
**Date Extracted:** 16-Sep-04
**Date Analyzed:** 17-Sep-04
**Prep Method:** SW3050B

**Prep Batch:** IP040916-2
**QCBatchID:** IP040916-2-2
**Run ID:** IT040917-1A1
**Cleanup:** NONE
**Basis:** Dry Weight

**Sample Aliquot:** 1 g
**Final Volume:** 100 ml
**Result Units:** mg/kg
**Clean DF:** 1
**File Name:** TS40917

| CASNO | Target Analyte | Dilution Factor | Result | Reporting Limit | Result Qualifier | EPA Qualifier |
|---|---|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 1 | 470 | 20 | | |
| 7440-38-2 | ARSENIC | 1 | 1 | 1 | U | |
| 7439-89-6 | IRON | 1 | 860 | 10 | | |
| 7439-92-1 | LEAD | 1 | 8.7 | 0.3 | | |
| 7439-96-5 | MANGANESE | 1 | 21 | 1 | | |

**Data Package ID:** *IT0405097-2*

# Total ICPMS Metals

## Method SW6020

## Sample Results

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Field ID:** GR-03
**Lab ID:** 0405097-6

**Sample Matrix:** SOLID
**% Moisture:** N/A
**Date Collected:** 07-May-04
**Date Extracted:** 16-Sep-04
**Date Analyzed:** 17-Sep-04
**Prep Method:** SW3050B

**Prep Batch:** IP040916-2
**QCBatchID:** IP040916-2-2
**Run ID:** IM040917-1A1
**Cleanup:** NONE
**Basis:** Dry Weight

**Sample Aliquot:** 1 g
**Final Volume:** 100 ml
**Result Units:** ug/kg
**Clean DF:** 1
**File Name:** 17SEP04A

| CASNO | Target Analyte | Dilution Factor | Result | Reporting Limit | Result Qualifier | EPA Qualifier |
|---|---|---|---|---|---|---|
| 7440-61-1 | URANIUM | 10 | 3600 | 10 | | N |

**Data Package ID:** *IM0405097-2*

Summary Report Forms

# ICP Metals

## Method SW6010

## Method Blank

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** IP040916-2MB

**Sample Matrix:** SOLID
**% Moisture:** N/A
**Date Collected:** N/A
**Date Extracted:** 09/16/2004
**Date Analyzed:** 09/17/2004

**Prep Batch:** IP040916-2
**QCBatchID:** IP040916-2-2
**Run ID:** IT040917-1A1
**Cleanup:** NONE
**Basis:** N/A

**Sample Aliquot:** 1 g
**Final Volume:** 100 ml
**Result Units:** mg/kg
**Clean DF:** 1
**File Name:** TS40917

| CASNO | Target Analyte | DF | Result | Reporting Limit | Result Qualifier | EPA Qualifier |
|---|---|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 1 | 20 | 20 | U | |
| 7440-38-2 | ARSENIC | 1 | 1 | 1 | U | |
| 7439-89-6 | IRON | 1 | 10 | 10 | U | |
| 7439-92-1 | LEAD | 1 | 0.3 | 0.3 | U | |
| 7439-96-5 | MANGANESE | 1 | 1 | 1 | U | |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010

## Laboratory Control Sample

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** IP040916-2LCS

**Sample Matrix:** SOLID
**% Moisture:** N/A
**Date Collected:** N/A
**Date Extracted:** 09/16/2004
**Date Analyzed:** 09/17/2004

**Prep Batch:** IP040916-2
**QCBatchID:** IP040916-2-2
**Run ID:** IT040917-1A1
**Cleanup:** NONE
**Basis:** N/A

**Sample Aliquot:** 1 g
**Final Volume:** 100 ml
**Result Units:** mg/kg
**Clean DF:** 1

| CASNO | Target Analyte | Spike Added | LCS Result | Reporting Limit | Result Qualifier | LCS % Rec. | Control Limits |
|---|---|---|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 540 | 503 | 20 | | 93 | 80 - 120% |
| 7440-38-2 | ARSENIC | 54 | 52.9 | 1 | | 98 | 80 - 120% |
| 7439-89-6 | IRON | 500 | 462 | 10 | | 93 | 80 - 120% |
| 7439-92-1 | LEAD | 60 | 57.5 | 0.3 | | 96 | 80 - 120% |
| 7439-96-5 | MANGANESE | 50 | 48.5 | 1 | | 97 | 80 - 120% |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010

## Matrix Spike And Matrix Spike Duplicate

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Field ID:** GR-03
**LabID:** 0405097-6MS

**Sample Matrix:** SOLID
**% Moisture:** N/A
**Date Collected:** 07-May-04
**Date Extracted:** 16-Sep-04
**Date Analyzed:** 17-Sep-04
**Prep Method:** SW3050B

**Prep Batch:** IP040916-2
**QCBatchID:** IP040916-2-2
**Run ID:** IT040917-1A1
**Cleanup:** NONE
**Basis:** Dry Weight

**Sample Aliquot:** 1 g
**Final Volume:** 100 ml
**Result Units:** mg/kg

| CASNO | Target Analyte | Sample Result | Samp Qual | MS Result | MS Qual | Reporting Limit | Spike Added | MS % Rec. | Control Limits |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 470 | | 957 | | 20 | 540 | 90 | 80 - 120% |
| 7440-38-2 | ARSENIC | 1 | U | 53.6 | | 1 | 54 | 99 | 80 - 120% |
| 7439-89-6 | IRON | 860 | | 1340 | | 10 | 500 | 95 | 80 - 120% |
| 7439-92-1 | LEAD | 8.7 | | 65.7 | | 0.3 | 60 | 95 | 80 - 120% |
| 7439-96-5 | MANGANESE | 21 | | 68.4 | | 1 | 50 | 94 | 80 - 120% |

**MSD Lab ID:** 0405097-6MSD

**Sample Aliquot:** 1 g
**Final Volume:** 100 ml

| CASNO | Target Analyte | Spike Added | MSD Result | MSD Qual | Reporting Limit | MSD % Rec. | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 540 | 981 | | 20 | 95 | 3 | 20 |
| 7440-38-2 | ARSENIC | 54 | 54.3 | | 1 | 101 | 1 | 20 |
| 7439-89-6 | IRON | 500 | 1370 | | 10 | 102 | 3 | 20 |
| 7439-92-1 | LEAD | 60 | 66 | | 0.3 | 96 | 0 | 20 |
| 7439-96-5 | MANGANESE | 50 | 69.2 | | 1 | 96 | 1 | 20 |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010

## Duplicate Sample Results

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Field ID:** GR-03
**Lab ID:** 0405097-6D

**Sample Matrix:** SOLID
**% Moisture:** N/A
**Date Collected:** 05/07/2004
**Date Extracted:** 09/16/2004
**Date Analyzed:** 09/17/2004

**Prep Batch:** IP040916-2
**QCBatchID:** IP040916-2-2
**Run ID:** IT040917-1A1
**Cleanup:** NONE
**Basis:** As Received

**Sample Aliquot:** 1 g
**Final Volume:** 100 ml
**Result Units:** mg/kg
**Clean DF:** 1
**File Name:** TS40917

| CASNO | Target Analyte | Sample Result | Samp Qual | Duplicate Result | Dup Qual | Reporting Limit | Dilution Factor | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 470 | | 455 | | 20 | 1 | 3 | 20 |
| 7440-38-2 | ARSENIC | 1 | U | 1 | U | 1 | 1 | | 20 |
| 7439-89-6 | IRON | 860 | | 870 | | 10 | 1 | 1 | 20 |
| 7439-92-1 | LEAD | 8.7 | | 8.35 | | 0.3 | 1 | 4 | 20 |
| 7439-96-5 | MANGANESE | 21 | | 21.2 | | 1 | 1 | 0 | 20 |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Serial Dilution

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Field ID:** GR-03
**Lab ID:** 0405097-6L

**Run ID:** IT040917-1A1
**Date Analyzed:** 17-Sep-04
**Result Units:** mg/l

| CASNO | Target Analyte | Sample Result | Samp Qual | SD Result | SD Qual | EPA Qualifier | %D |
|---|---|---|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 4.70296 | | 4.69475 | | | 0 |
| 7440-38-2 | ARSENIC | 0.0100000001490 | U | 0.05 | U | | |
| 7439-89-6 | IRON | 8.64405 | | 8.270599 | | | 4 |
| 7439-92-1 | LEAD | 0.08692 | | 0.082 | | | 6 |
| 7439-96-5 | MANGANESE | 0.21264 | | 0.21405 | | | 1 |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Verifications

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** ICV
**QC Type:** Initial Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Spike Added | Result | Reporting Limit | Result Qualifier | % Rec. | Control Limits |
|---|---|---|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 25.2 | 24.6 | 0.2 | | 98 | 90 - 110% |
| 7440-38-2 | ARSENIC | 0.25 | 0.252 | 0.01 | | 101 | 90 - 110% |
| 7439-89-6 | IRON | 10.2 | 9.8 | 0.1 | | 96 | 90 - 110% |
| 7439-92-1 | LEAD | 0.25 | 0.242 | 0.003 | | 97 | 90 - 110% |
| 7439-96-5 | MANGANESE | 0.25 | 0.243 | 0.01 | | 97 | 90 - 110% |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Verifications

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** CCV1
**QC Type:** Continuing Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Spike Added | Result | Reporting Limit | Result Qualifier | % Rec. | Control Limits |
|---|---|---|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 50.5 | 49.1 | 0.2 | | 97 | 90 - 110% |
| 7440-38-2 | ARSENIC | 0.5 | 0.504 | 0.01 | | 101 | 90 - 110% |
| 7439-89-6 | IRON | 20.5 | 19.8 | 0.1 | | 97 | 90 - 110% |
| 7439-92-1 | LEAD | 0.5 | 0.484 | 0.003 | | 97 | 90 - 110% |
| 7439-96-5 | MANGANESE | 0.5 | 0.478 | 0.01 | | 96 | 90 - 110% |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Verifications

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** CCV2
**QC Type:** Continuing Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Spike Added | Result | Reporting Limit | Result Qualifier | % Rec. | Control Limits |
|---|---|---|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 50.5 | 49.1 | 0.2 | | 97 | 90 - 110% |
| 7440-38-2 | ARSENIC | 0.5 | 0.509 | 0.01 | | 102 | 90 - 110% |
| 7439-89-6 | IRON | 20.5 | 19.9 | 0.1 | | 97 | 90 - 110% |
| 7439-92-1 | LEAD | 0.5 | 0.484 | 0.003 | | 97 | 90 - 110% |
| 7439-96-5 | MANGANESE | 0.5 | 0.478 | 0.01 | | 96 | 90 - 110% |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Verifications

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** CCV3
**QC Type:** Continuing Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Spike Added | Result | Reporting Limit | Result Qualifier | % Rec. | Control Limits |
|---|---|---|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 50.5 | 49.3 | 0.2 | | 98 | 90 - 110% |
| 7440-38-2 | ARSENIC | 0.5 | 0.5 | 0.01 | | 100 | 90 - 110% |
| 7439-89-6 | IRON | 20.5 | 19.7 | 0.1 | | 96 | 90 - 110% |
| 7439-92-1 | LEAD | 0.5 | 0.481 | 0.003 | | 96 | 90 - 110% |
| 7439-96-5 | MANGANESE | 0.5 | 0.475 | 0.01 | | 95 | 90 - 110% |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Verifications

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** CCV4
**QC Type:** Continuing Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Spike Added | Result | Reporting Limit | Result Qualifier | % Rec. | Control Limits |
|---|---|---|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 50.5 | 49.4 | 0.2 | | 98 | 90 - 110% |
| 7440-38-2 | ARSENIC | 0.5 | 0.503 | 0.01 | | 101 | 90 - 110% |
| 7439-89-6 | IRON | 20.5 | 19.9 | 0.1 | | 97 | 90 - 110% |
| 7439-92-1 | LEAD | 0.5 | 0.48 | 0.003 | | 96 | 90 - 110% |
| 7439-96-5 | MANGANESE | 0.5 | 0.478 | 0.01 | | 96 | 90 - 110% |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Verifications

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** CCV5
**QC Type:** Continuing Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Spike Added | Result | Reporting Limit | Result Qualifier | % Rec. | Control Limits |
|---|---|---|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 50.5 | 49.2 | 0.2 | | 97 | 90 - 110% |
| 7440-38-2 | ARSENIC | 0.5 | 0.507 | 0.01 | | 101 | 90 - 110% |
| 7439-89-6 | IRON | 20.5 | 19.9 | 0.1 | | 97 | 90 - 110% |
| 7439-92-1 | LEAD | 0.5 | 0.484 | 0.003 | | 97 | 90 - 110% |
| 7439-96-5 | MANGANESE | 0.5 | 0.478 | 0.01 | | 96 | 90 - 110% |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Verifications

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** CCV6
**QC Type:** Continuing Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Spike Added | Result | Reporting Limit | Result Qualifier | % Rec. | Control Limits |
|---|---|---|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 50.5 | 49.9 | 0.2 | | 99 | 90 - 110% |
| 7440-38-2 | ARSENIC | 0.5 | 0.517 | 0.01 | | 103 | 90 - 110% |
| 7439-89-6 | IRON | 20.5 | 20.1 | 0.1 | | 98 | 90 - 110% |
| 7439-92-1 | LEAD | 0.5 | 0.489 | 0.003 | | 98 | 90 - 110% |
| 7439-96-5 | MANGANESE | 0.5 | 0.483 | 0.01 | | 97 | 90 - 110% |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Verifications

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** CCV7
**QC Type:** Continuing Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Spike Added | Result | Reporting Limit | Result Qualifier | % Rec. | Control Limits |
|---|---|---|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 50.5 | 49.7 | 0.2 | | 98 | 90 - 110% |
| 7440-38-2 | ARSENIC | 0.5 | 0.506 | 0.01 | | 101 | 90 - 110% |
| 7439-89-6 | IRON | 20.5 | 19.8 | 0.1 | | 97 | 90 - 110% |
| 7439-92-1 | LEAD | 0.5 | 0.484 | 0.003 | | 97 | 90 - 110% |
| 7439-96-5 | MANGANESE | 0.5 | 0.477 | 0.01 | | 96 | 90 - 110% |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Verifications

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** CCV8
**QC Type:** Continuing Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Spike Added | Result | Reporting Limit | Result Qualifier | % Rec. | Control Limits |
|---|---|---|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 50.5 | 49.5 | 0.2 | | 98 | 90 - 110% |
| 7440-38-2 | ARSENIC | 0.5 | 0.506 | 0.01 | | 101 | 90 - 110% |
| 7439-89-6 | IRON | 20.5 | 19.9 | 0.1 | | 97 | 90 - 110% |
| 7439-92-1 | LEAD | 0.5 | 0.479 | 0.003 | | 96 | 90 - 110% |
| 7439-96-5 | MANGANESE | 0.5 | 0.479 | 0.01 | | 96 | 90 - 110% |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Verifications

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** CCV9
**QC Type:** Continuing Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Spike Added | Result | Reporting Limit | Result Qualifier | % Rec. | Control Limits |
|---|---|---|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 50.5 | 49.3 | 0.2 | | 98 | 90 - 110% |
| 7440-38-2 | ARSENIC | 0.5 | 0.505 | 0.01 | | 101 | 90 - 110% |
| 7439-89-6 | IRON | 20.5 | 19.8 | 0.1 | | 96 | 90 - 110% |
| 7439-92-1 | LEAD | 0.5 | 0.48 | 0.003 | | 96 | 90 - 110% |
| 7439-96-5 | MANGANESE | 0.5 | 0.476 | 0.01 | | 95 | 90 - 110% |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Verifications

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** CCV10
**QC Type:** Continuing Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Spike Added | Result | Reporting Limit | Result Qualifier | % Rec. | Control Limits |
|---|---|---|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 50.5 | 49.7 | 0.2 | | 98 | 90 - 110% |
| 7440-38-2 | ARSENIC | 0.5 | 0.514 | 0.01 | | 103 | 90 - 110% |
| 7439-89-6 | IRON | 20.5 | 20.1 | 0.1 | | 98 | 90 - 110% |
| 7439-92-1 | LEAD | 0.5 | 0.49 | 0.003 | | 98 | 90 - 110% |
| 7439-96-5 | MANGANESE | 0.5 | 0.483 | 0.01 | | 97 | 90 - 110% |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Blanks

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** ICB
**QC Type:** Initial Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Result | Reporting Limit | Result Qualifier |
|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 0.2 | 0.2 | U |
| 7440-38-2 | ARSENIC | 0.01 | 0.01 | U |
| 7439-89-6 | IRON | 0.1 | 0.1 | U |
| 7439-92-1 | LEAD | 0.003 | 0.003 | U |
| 7439-96-5 | MANGANESE | 0.01 | 0.01 | U |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Blanks

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** CCB1
**QC Type:** Initial Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Result | Reporting Limit | Result Qualifier |
|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 0.2 | 0.2 | U |
| 7440-38-2 | ARSENIC | 0.01 | 0.01 | U |
| 7439-89-6 | IRON | 0.1 | 0.1 | U |
| 7439-92-1 | LEAD | 0.003 | 0.003 | U |
| 7439-96-5 | MANGANESE | 0.01 | 0.01 | U |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Blanks

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** CCB2
**QC Type:** Initial Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Result | Reporting Limit | Result Qualifier |
|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 0.2 | 0.2 | U |
| 7440-38-2 | ARSENIC | 0.01 | 0.01 | U |
| 7439-89-6 | IRON | 0.1 | 0.1 | U |
| 7439-92-1 | LEAD | 0.003 | 0.003 | U |
| 7439-96-5 | MANGANESE | 0.01 | 0.01 | U |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Blanks

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** CCB3
**QC Type:** Initial Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Result | Reporting Limit | Result Qualifier |
|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 0.2 | 0.2 | U |
| 7440-38-2 | ARSENIC | 0.01 | 0.01 | U |
| 7439-89-6 | IRON | 0.1 | 0.1 | U |
| 7439-92-1 | LEAD | 0.003 | 0.003 | U |
| 7439-96-5 | MANGANESE | 0.01 | 0.01 | U |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Blanks

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** CCB4
**QC Type:** Initial Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Result | Reporting Limit | Result Qualifier |
|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 0.2 | 0.2 | U |
| 7440-38-2 | ARSENIC | 0.01 | 0.01 | U |
| 7439-89-6 | IRON | 0.1 | 0.1 | U |
| 7439-92-1 | LEAD | 0.003 | 0.003 | U |
| 7439-96-5 | MANGANESE | 0.01 | 0.01 | U |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Blanks

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** CCB5
**QC Type:** Initial Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Result | Reporting Limit | Result Qualifier |
|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 0.2 | 0.2 | U |
| 7440-38-2 | ARSENIC | 0.01 | 0.01 | U |
| 7439-89-6 | IRON | 0.1 | 0.1 | U |
| 7439-92-1 | LEAD | 0.003 | 0.003 | U |
| 7439-96-5 | MANGANESE | 0.01 | 0.01 | U |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Blanks

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** CCB6
**QC Type:** Initial Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Result | Reporting Limit | Result Qualifier |
|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 0.2 | 0.2 | U |
| 7440-38-2 | ARSENIC | 0.01 | 0.01 | U |
| 7439-89-6 | IRON | 0.1 | 0.1 | U |
| 7439-92-1 | LEAD | 0.003 | 0.003 | U |
| 7439-96-5 | MANGANESE | 0.01 | 0.01 | U |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Blanks

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** CCB7
**QC Type:** Initial Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Result | Reporting Limit | Result Qualifier |
|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 0.2 | 0.2 | U |
| 7440-38-2 | ARSENIC | 0.01 | 0.01 | U |
| 7439-89-6 | IRON | 0.1 | 0.1 | U |
| 7439-92-1 | LEAD | 0.003 | 0.003 | U |
| 7439-96-5 | MANGANESE | 0.01 | 0.01 | U |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Blanks

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** CCB8
**QC Type:** Initial Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Result | Reporting Limit | Result Qualifier |
|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 0.2 | 0.2 | U |
| 7440-38-2 | ARSENIC | 0.01 | 0.01 | U |
| 7439-89-6 | IRON | 0.1 | 0.1 | U |
| 7439-92-1 | LEAD | 0.003 | 0.003 | U |
| 7439-96-5 | MANGANESE | 0.01 | 0.01 | U |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Blanks

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** CCB9
**QC Type:** Initial Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Result | Reporting Limit | Result Qualifier |
|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 0.2 | 0.2 | U |
| 7440-38-2 | ARSENIC | 0.01 | 0.01 | U |
| 7439-89-6 | IRON | 0.1 | 0.1 | U |
| 7439-92-1 | LEAD | 0.003 | 0.003 | U |
| 7439-96-5 | MANGANESE | 0.01 | 0.01 | U |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010
## Calibration Blanks

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** CCB10
**QC Type:** Initial Calibration

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Result | Reporting Limit | Result Qualifier |
|---|---|---|---|---|
| 7429-90-5 | ALUMINUM | 0.2 | 0.2 | U |
| 7440-38-2 | ARSENIC | 0.01 | 0.01 | U |
| 7439-89-6 | IRON | 0.1 | 0.1 | U |
| 7439-92-1 | LEAD | 0.003 | 0.003 | U |
| 7439-96-5 | MANGANESE | 0.01 | 0.01 | U |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010

## ICP Interference Check Sample

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Spike Added | | Results | | % Rec. |
|---|---|---|---|---|---|---|
| | | ICSA1 | ICSAB1 | ICSA1 | ICSAB1 | |
| 7429-90-5 | ALUMINUM | 500 | 500 | 493 | 473 | 95 |
| 7440-38-2 | ARSENIC | | 0.1 | | 0.09690 | 97 |
| 7439-89-6 | IRON | 200 | 200 | 201 | 193 | 97 |
| 7439-92-1 | LEAD | | 0.05 | | 0.0457 | 91 |
| 7439-96-5 | MANGANESE | | 0.5 | | 0.436 | 87 |

**Data Package ID:** *IT0405097-2*

# ICP Metals

## Method SW6010

## ICP Interference Check Sample

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Run ID:** IT040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** mg/l

| CASNO | Target Analyte | Spike Added | | Results | | % Rec. |
|---|---|---|---|---|---|---|
| | | ICSA2 | ICSAB2 | ICSA2 | ICSAB2 | |
| 7429-90-5 | ALUMINUM | 500 | 500 | 492 | 477 | 95 |
| 7440-38-2 | ARSENIC | | 0.1 | | 0.10100 | 101 |
| 7439-89-6 | IRON | 200 | 200 | 200 | 196 | 98 |
| 7439-92-1 | LEAD | | 0.05 | | 0.0459 | 92 |
| 7439-96-5 | MANGANESE | | 0.5 | | 0.44100 | 88 |

**Data Package ID:** *IT0405097-2*

# ICP Interelement Correction Factors

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Instrument ID:** ICPTrace
**Active Date:** 4/10/2004
**Expiration Date:** 4/10/2005



| Analyte | Lamda (nm) | Al | Sb | As | Ba | Be | Cd | Ca | Cr | Co | Cu | Fe | Pb | Mg | Mn | Ni |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALUMINUM | | | | | | | | | | -0.0058 | | | | | | -0.0013 |
| ARSENIC | | | | | | | | | -0.00387 | | | | | | | |
| IRON | | | | | | | | | | 0.0723 | | | | | | |
| LEAD | | 0.00034 | | | | | | -0.000013 | | -0.002 | | 0.000093 | | 0.000017 | 0.000182 | 0.000243 |
| MANGANESE | | | | | | | | | | | | | | | | |
| URANIUM | | | | | | | | | | | | 0.033 | | | | 0.079 |


**Date Printed:** Thursday, September 23, 2004

# ICP Interelement Correction Factors

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Instrument ID:** ICPTrace
**Active Date:** 4/10/2004
**Expiration Date:** 4/10/2005



| Analyte | Lamda (nm) | K | Se | Ag | Na | Tl | V | Zn | Sn | Ti | Mo | Li | Sr | B | Si | U |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ALUMINUM | | | | | | | 0.0211 | | | | | | | | | -0.013 |
| ARSENIC | | | | | | | | | | | -0.00126 | | | | | |
| IRON | | | | | | | 0.015 | | | | | | | | | -0.025 |
| LEAD | | | | | | | | | | | -0.00038 | | | | | 0.00109 |
| MANGANESE | | | | | | | | | | | | | | | | |
| URANIUM | | | | | | | | | | -0.85 | | | | | | |

# Metals Linear Ranges

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Instrument ID:** ICPTrace
**Active Date:** 07/16/2004
**Expiration Date:** 10/15/2004

| CASNO | Target Analyte | Concentration (ppm) |
|---|---|---|
| 7429-90-5 | ALUMINUM | 500 |
| 7440-38-2 | ARSENIC | 10 |
| 7439-89-6 | IRON | 200 |
| 7439-92-1 | LEAD | 10 |
| 7439-96-5 | MANGANESE | 10 |
| 7440-61-1 | URANIUM | 50 |

# ICPTrace Run Log -- 9/17/2004

**Instrument ID:** ICPTrace
**File Name:** TS40917
**AnalRunID:** IT040917-1A1
**CalibRefID:** IT040917-1A1

| Comment | Field ID | Lab ID | QC Type | DF | Date Analyzed | Time Analyzed | Prep Batch ID |
|---|---|---|---|---|---|---|---|
| | | MIXCHIGH | MIXCH | 1 | 9/17/2004 | 10:20 | |
| | | MIXBHIGH | MIXBH | 1 | 9/17/2004 | 10:23 | |
| | | MIXAHIGH | MIXAH | 1 | 9/17/2004 | 10:25 | |
| | | ICV | ICV | 1 | 9/17/2004 | 10:32 | |
| | | ICB | ICB | 1 | 9/17/2004 | 10:35 | |
| | | CRI1 | CRI | 1 | 9/17/2004 | 10:37 | |
| | | ICSA1 | ICSA | 1 | 9/17/2004 | 10:40 | |
| | | Z | Z | 1 | 9/17/2004 | 10:42 | |
| | | ICSAB1 | ICSAB | 1 | 9/17/2004 | 10:45 | |
| | | CCV1 | CCV | 1 | 9/17/2004 | 10:48 | |
| | | CCB1 | CCB | 1 | 9/17/2004 | 10:50 | |
| | | IP040916-2 | MB | 1 | 9/17/2004 | 10:54 | IP040916-2 |
| | | IP040916-2 | LCS | 1 | 9/17/2004 | 10:58 | IP040916-2 |
| | | 0409018-1 | SMP | 1 | 9/17/2004 | 11:01 | IP040916-2 |
| | | 0409018-2 | SMP | 1 | 9/17/2004 | 11:03 | IP040916-2 |
| | | 0409018-2 | DUP | 1 | 9/17/2004 | 11:06 | IP040916-2 |
| | | 0409018-2 | SER | 5 | 9/17/2004 | 11:08 | IP040916-2 |
| | | 0409018-2 | MS | 1 | 9/17/2004 | 11:11 | IP040916-2 |
| | | 0409018-2 | MSD | 1 | 9/17/2004 | 11:14 | IP040916-2 |
| | | 0409018-3 | SMP | 1 | 9/17/2004 | 11:16 | IP040916-2 |
| | | 0409018-4 | SMP | 1 | 9/17/2004 | 11:19 | IP040916-2 |
| | | CCV2 | CCV | 1 | 9/17/2004 | 11:21 | |
| | | CCB2 | CCB | 1 | 9/17/2004 | 11:24 | |
| | | 0409018-5 | SMP | 1 | 9/17/2004 | 11:26 | IP040916-2 |
| | | 0409018-6 | SMP | 1 | 9/17/2004 | 11:29 | IP040916-2 |
| | | 0409018-7 | SMP | 1 | 9/17/2004 | 11:31 | IP040916-2 |
| | | 0409018-8 | SMP | 1 | 9/17/2004 | 11:34 | IP040916-2 |
| | | 0409018-9 | SMP | 1 | 9/17/2004 | 11:36 | IP040916-2 |
| | | 0409018-10 | SMP | 1 | 9/17/2004 | 11:40 | IP040916-2 |
| | | 0409018-11 | SMP | 1 | 9/17/2004 | 11:42 | IP040916-2 |
| | | 0409018-12 | SMP | 1 | 9/17/2004 | 11:45 | IP040916-2 |
| | | 0409018-13 | SMP | 1 | 9/17/2004 | 11:47 | IP040916-2 |
| | | 0409018-14 | SMP | 1 | 9/17/2004 | 11:50 | IP040916-2 |
| | | CCV3 | CCV | 1 | 9/17/2004 | 11:52 | |
| | | CCB3 | CCB | 1 | 9/17/2004 | 11:55 | |

**Data Package ID: IT0405097-2**

# ICPTrace Run Log -- 9/17/2004

**Instrument ID:** ICPTrace
**File Name:** TS40917
**AnalRunID:** IT040917-1A1
**CalibRefID:** IT040917-1A1

| Comment | Field ID | Lab ID | QC Type | DF | Date Analyzed | Time Analyzed | Prep Batch ID |
|---|---|---|---|---|---|---|---|
| | | 0409018-14 | DUP | 1 | 9/17/2004 | 11:57 | IP040916-2 |
| | | 0409018-14 | SER | 5 | 9/17/2004 | 12:00 | IP040916-2 |
| | | 0409018-14 | MS | 1 | 9/17/2004 | 12:02 | IP040916-2 |
| | | 0409018-14 | MSD | 1 | 9/17/2004 | 12:05 | IP040916-2 |
| | | 0409018-15 | SMP | 1 | 9/17/2004 | 12:07 | IP040916-2 |
| | | 0409018-16 | SMP | 1 | 9/17/2004 | 12:10 | IP040916-2 |
| | | 0409018-20 | SMP | 1 | 9/17/2004 | 12:12 | IP040916-2 |
| | | 0409018-21 | SMP | 1 | 9/17/2004 | 12:15 | IP040916-2 |
| | GR-03 | 0405097-6 | SMP | 1 | 9/17/2004 | 12:17 | IP040916-2 |
| | GR-03 | 0405097-6 | DUP | 1 | 9/17/2004 | 12:20 | IP040916-2 |
| | | CCV4 | CCV | 1 | 9/17/2004 | 12:22 | |
| | | CCB4 | CCB | 1 | 9/17/2004 | 12:25 | |
| | GR-03 | 0405097-6 | SER | 5 | 9/17/2004 | 12:28 | IP040916-2 |
| | GR-03 | 0405097-6 | MS | 1 | 9/17/2004 | 12:30 | IP040916-2 |
| | GR-03 | 0405097-6 | MSD | 1 | 9/17/2004 | 12:33 | IP040916-2 |
| | | 0409018-5 | SMP | 2 | 9/17/2004 | 12:37 | IP040916-2 |
| | | 0409018-6 | SMP | 2 | 9/17/2004 | 12:39 | IP040916-2 |
| | | 0409018-10 | SMP | 2 | 9/17/2004 | 12:42 | IP040916-2 |
| | | 0409018-14 | SMP | 2 | 9/17/2004 | 12:44 | IP040916-2 |
| | | 0409018-14 | DUP | 2 | 9/17/2004 | 12:47 | IP040916-2 |
| | | 0409018-14 | SER | 10 | 9/17/2004 | 12:49 | IP040916-2 |
| | | 0409018-14 | MS | 2 | 9/17/2004 | 12:52 | IP040916-2 |
| | | CCV5 | CCV | 1 | 9/17/2004 | 12:54 | |
| | | CCB5 | CCB | 1 | 9/17/2004 | 12:57 | |
| | | 0409018-14 | MSD | 2 | 9/17/2004 | 12:59 | IP040916-2 |
| | | 0409018-2 | A | 1 | 9/17/2004 | 13:02 | IP040916-2 |
| | | IP040916-3 | MB | 1 | 9/17/2004 | 13:06 | IP040916-3 |
| | | IP040916-3 | LCS | 1 | 9/17/2004 | 13:08 | IP040916-3 |
| | | IP040916-3 | LCSD | 1 | 9/17/2004 | 13:11 | IP040916-3 |
| | | Z | Z | 1 | 9/17/2004 | 13:14 | |
| | | 0408237-2 | SMP | 1 | 9/17/2004 | 13:17 | IP040916-3 |
| | | 0408237-3 | SMP | 1 | 9/17/2004 | 13:19 | IP040916-3 |
| | | 0408237-4 | SMP | 1 | 9/17/2004 | 13:22 | IP040916-3 |
| | | 0408237-5 | SMP | 1 | 9/17/2004 | 13:25 | IP040916-3 |
| | | CCV6 | CCV | 1 | 9/17/2004 | 13:27 | |

**Data Package ID: IT0405097-2**

# ICPTrace Run Log -- 9/17/2004

**Instrument ID:** ICPTrace
**File Name:** TS40917
**AnalRunID:** IT040917-1A1
**CalibRefID:** IT040917-1A1

| Comment | Field ID | Lab ID | QC Type | DF | Date Analyzed | Time Analyzed | Prep Batch ID |
|---|---|---|---|---|---|---|---|
| | | CCB6 | CCB | 1 | 9/17/2004 | 13:30 | |
| | | 0408237-6 | SMP | 1 | 9/17/2004 | 13:34 | IP040916-3 |
| | | 0408237-7 | SMP | 1 | 9/17/2004 | 13:37 | IP040916-3 |
| | | 0408237-8 | SMP | 1 | 9/17/2004 | 13:39 | IP040916-3 |
| | | 0408237-9 | SMP | 1 | 9/17/2004 | 13:42 | IP040916-3 |
| | | 0408237-10 | SMP | 1 | 9/17/2004 | 13:44 | IP040916-3 |
| | | 0408237-11 | SMP | 1 | 9/17/2004 | 13:47 | IP040916-3 |
| | | 0408237-12 | SMP | 1 | 9/17/2004 | 13:49 | IP040916-3 |
| | | 0408237-13 | SMP | 1 | 9/17/2004 | 13:52 | IP040916-3 |
| | | 0408237-13 | DUP | 1 | 9/17/2004 | 13:54 | IP040916-3 |
| | | 0408237-13 | SER | 5 | 9/17/2004 | 13:57 | IP040916-3 |
| | | CCV7 | CCV | 1 | 9/17/2004 | 13:59 | |
| | | CCB7 | CCB | 1 | 9/17/2004 | 14:02 | |
| | | 0408237-13 | MS | 1 | 9/17/2004 | 14:06 | IP040916-3 |
| | | 0408237-13 | MSD | 1 | 9/17/2004 | 14:08 | IP040916-3 |
| | | 0408237-15 | SMP | 1 | 9/17/2004 | 14:11 | IP040916-3 |
| | | 0408237-16 | SMP | 1 | 9/17/2004 | 14:14 | IP040916-3 |
| | | 0408237-17 | SMP | 1 | 9/17/2004 | 14:16 | IP040916-3 |
| | | 0408237-18 | SMP | 1 | 9/17/2004 | 14:19 | IP040916-3 |
| | | 0408237-19 | SMP | 1 | 9/17/2004 | 14:21 | IP040916-3 |
| | | 0409018-22 | SMP | 1 | 9/17/2004 | 14:24 | IP040916-3 |
| | | 0409018-22 | DUP | 1 | 9/17/2004 | 14:27 | IP040916-3 |
| | | 0409018-22 | SER | 5 | 9/17/2004 | 14:29 | IP040916-3 |
| | | CCV8 | CCV | 1 | 9/17/2004 | 14:32 | |
| | | CCB8 | CCB | 1 | 9/17/2004 | 14:34 | |
| | | 0409018-22 | MS | 1 | 9/17/2004 | 14:37 | IP040916-3 |
| | | 0409018-22 | MSD | 1 | 9/17/2004 | 14:39 | IP040916-3 |
| | | 0409018-23 | SMP | 1 | 9/17/2004 | 14:42 | IP040916-3 |
| | | 0409018-24 | SMP | 1 | 9/17/2004 | 14:44 | IP040916-3 |
| | | 0408237-2 | SMP | 2 | 9/17/2004 | 14:50 | IP040916-3 |
| | | 0408237-3 | SMP | 2 | 9/17/2004 | 14:52 | IP040916-3 |
| | | 0408237-5 | SMP | 2 | 9/17/2004 | 14:55 | IP040916-3 |
| | | 0408237-7 | SMP | 2 | 9/17/2004 | 14:58 | IP040916-3 |
| | | 0408237-8 | SMP | 2 | 9/17/2004 | 15:00 | IP040916-3 |
| | | 0408237-9 | SMP | 2 | 9/17/2004 | 15:03 | IP040916-3 |

**Data Package ID: IT0405097-2**

# ICPTrace Run Log -- 9/17/2004

**Instrument ID:** ICPTrace
**File Name:** TS40917
**AnalRunID:** IT040917-1A1
**CalibRefID:** IT040917-1A1

| Comment | Field ID | Lab ID | QC Type | DF | Date Analyzed | Time Analyzed | Prep Batch ID |
|---|---|---|---|---|---|---|---|
| | | CCV9 | CCV | 1 | 9/17/2004 | 15:06 | |
| | | CCB9 | CCB | 1 | 9/17/2004 | 15:08 | |
| | | 0409018-23 | SMP | 2 | 9/17/2004 | 15:11 | IP040916-3 |
| | | 0408237-13 | A | 1 | 9/17/2004 | 15:13 | IP040916-3 |
| | | CRI2 | CRI | 1 | 9/17/2004 | 15:16 | |
| | | ICSA2 | ICSA | 1 | 9/17/2004 | 15:18 | |
| | | ICSAB2 | ICSAB | 1 | 9/17/2004 | 15:21 | |
| | | CCV10 | CCV | 1 | 9/17/2004 | 15:23 | |
| | | CCB10 | CCB | 1 | 9/17/2004 | 15:26 | |
| | | IP040916-1 | MB | 1 | 9/17/2004 | 15:36 | IP040916-1 |
| | | IP040916-1 | LCS | 1 | 9/17/2004 | 15:39 | IP040916-1 |
| | | IP040916-1 | LCSD | 1 | 9/17/2004 | 15:43 | IP040916-1 |
| | | 0408236-2 | SMP | 1 | 9/17/2004 | 15:46 | IP040916-1 |
| | | 0408236-3 | SMP | 1 | 9/17/2004 | 15:49 | IP040916-1 |
| | | 0408236-4 | SMP | 1 | 9/17/2004 | 15:52 | IP040916-1 |
| | | 0408236-6 | SMP | 1 | 9/17/2004 | 15:55 | IP040916-1 |
| | | 0408236-7 | SMP | 1 | 9/17/2004 | 15:58 | IP040916-1 |
| | | 0408236-8 | SMP | 1 | 9/17/2004 | 16:01 | IP040916-1 |
| | | 0408236-9 | SMP | 1 | 9/17/2004 | 16:04 | IP040916-1 |
| | | CCV11 | CCV | 1 | 9/17/2004 | 16:07 | |
| | | CCB11 | CCB | 1 | 9/17/2004 | 16:10 | |
| | | 0408236-10 | SMP | 1 | 9/17/2004 | 16:13 | IP040916-1 |
| | | 0408236-11 | SMP | 1 | 9/17/2004 | 16:16 | IP040916-1 |
| | | 0408236-12 | SMP | 1 | 9/17/2004 | 16:19 | IP040916-1 |
| | | 0408236-12 | DUP | 1 | 9/17/2004 | 16:22 | IP040916-1 |
| | | 0408236-12 | SER | 5 | 9/17/2004 | 16:25 | IP040916-1 |
| | | 0408236-12 | MS | 1 | 9/17/2004 | 16:28 | IP040916-1 |
| | | 0408236-12 | MSD | 1 | 9/17/2004 | 16:31 | IP040916-1 |
| | | 0408252-4 | SMP | 1 | 9/17/2004 | 16:35 | IP040916-1 |
| | | 0408252-5 | SMP | 1 | 9/17/2004 | 16:38 | IP040916-1 |
| | | 0408252-6 | SMP | 1 | 9/17/2004 | 16:41 | IP040916-1 |
| | | CCV12 | CCV | 1 | 9/17/2004 | 16:44 | |
| | | CCB12 | CCB | 1 | 9/17/2004 | 16:47 | |
| | | 0408252-7 | SMP | 1 | 9/17/2004 | 16:50 | IP040916-1 |
| | | 0408252-8 | SMP | 1 | 9/17/2004 | 16:53 | IP040916-1 |

**Data Package ID: IT0405097-2**

# ICPTrace Run Log -- 9/17/2004

**Instrument ID:** ICPTrace
**File Name:** TS40917
**AnalRunID:** IT040917-1A1
**CalibRefID:** IT040917-1A1

| Comment | Field ID | Lab ID | QC Type | DF | Date Analyzed | Time Analyzed | Prep Batch ID |
|---|---|---|---|---|---|---|---|
| | | 0408252-9 | SMP | 1 | 9/17/2004 | 16:56 | IP040916-1 |
| | | 0408252-10 | SMP | 1 | 9/17/2004 | 16:59 | IP040916-1 |
| | | 0408252-11 | SMP | 1 | 9/17/2004 | 17:02 | IP040916-1 |
| | | 0408252-13 | SMP | 1 | 9/17/2004 | 17:05 | IP040916-1 |
| | | 0408252-14 | SMP | 1 | 9/17/2004 | 17:08 | IP040916-1 |
| | | 0408236-12 | SMP | 2 | 9/17/2004 | 17:11 | IP040916-1 |
| | | 0408236-12 | DUP | 2 | 9/17/2004 | 17:14 | IP040916-1 |
| | | 0408236-12 | SER | 10 | 9/17/2004 | 17:17 | IP040916-1 |
| | | CCV13 | CCV | 1 | 9/17/2004 | 17:22 | |
| | | CCB13 | CCB | 1 | 9/17/2004 | 17:25 | |
| | | 0408236-12 | MS | 2 | 9/17/2004 | 17:29 | IP040916-1 |
| | | 0408236-12 | MSD | 2 | 9/17/2004 | 17:31 | IP040916-1 |
| | | 0408236-2 | SMP | 2 | 9/17/2004 | 17:34 | IP040916-1 |
| | | 0408236-10 | SMP | 2 | 9/17/2004 | 17:36 | IP040916-1 |
| | | 0408236-11 | SMP | 2 | 9/17/2004 | 17:39 | IP040916-1 |
| | | 0408252-4 | SMP | 2 | 9/17/2004 | 17:41 | IP040916-1 |
| | | 0408252-10 | SMP | 2 | 9/17/2004 | 17:44 | IP040916-1 |
| | | 0408236-12 | A | 1 | 9/17/2004 | 17:46 | IP040916-1 |
| | | CCV14 | CCV | 1 | 9/17/2004 | 17:49 | |
| | | CCB14 | CCB | 1 | 9/17/2004 | 17:51 | |
| | | CRI3 | CRI | 1 | 9/17/2004 | 17:54 | |
| | | ICSA3 | ICSA | 1 | 9/17/2004 | 17:57 | |
| | | ICSAB3 | ICSAB | 1 | 9/17/2004 | 17:59 | |
| | | CCV15 | CCV | 1 | 9/17/2004 | 18:02 | |
| | | CCB15 | CCB | 1 | 9/17/2004 | 18:04 | |

**Data Package ID: IT0405097-2**

# ICPMS Metals

## Method SW6020
## Method Blank

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** IP040916-2MB

**Sample Matrix:** SOLID
**% Moisture:** N/A
**Date Collected:** N/A
**Date Extracted:** 09/16/2004
**Date Analyzed:** 09/17/2004

**Prep Batch:** IP040916-2
**QCBatchID:** IP040916-2-2
**Run ID:** IM040917-1A1
**Cleanup:** NONE
**Basis:** N/A

**Sample Aliquot:** 1 g
**Final Volume:** 100 ml
**Result Units:** ug/kg
**Clean DF:** 1
**File Name:** 17SEP04A

| CASNO | Target Analyte | DF | Result | Reporting Limit | Result Qualifier | EPA Qualifier |
|---|---|---|---|---|---|---|
| 7440-61-1 | URANIUM | 10 | 10 | 10 | U | |

**Data Package ID:** *IM0405097-2*

# ICPMS Metals

## Method SW6020

## Laboratory Control Sample

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Lab ID:** IP040916-2LCS

**Sample Matrix:** SOLID
**% Moisture:** N/A
**Date Collected:** N/A
**Date Extracted:** 09/16/2004
**Date Analyzed:** 09/17/2004

**Prep Batch:** IP040916-2
**QCBatchID:** IP040916-2-2
**Run ID:** IM040917-1A1
**Cleanup:** NONE
**Basis:** N/A

**Sample Aliquot:** 1 g
**Final Volume:** 100 ml
**Result Units:** ug/kg
**Clean DF:** 1

| CASNO | Target Analyte | Spike Added | LCS Result | Reporting Limit | Result Qualifier | LCS % Rec. | Control Limits |
|---|---|---|---|---|---|---|---|
| 7440-61-1 | URANIUM | 2000 | 1930 | 10 | | 97 | 80 - 120% |

**Data Package ID:** *IM0405097-2*

# ICPMS Metals

## Method SW6020

## Matrix Spike And Matrix Spike Duplicate

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Field ID:** GR-03
**LabID:** 0405097-6MS

**Sample Matrix:** SOLID
**% Moisture:** N/A
**Date Collected:** 07-May-04
**Date Extracted:** 16-Sep-04
**Date Analyzed:** 17-Sep-04
**Prep Method:** SW3050B

**Prep Batch:** IP040916-2
**QCBatchID:** IP040916-2-2
**Run ID:** IM040917-1A1
**Cleanup:** NONE
**Basis:** Dry Weight

**Sample Aliquot:** 1 g
**Final Volume:** 100 ml
**Result Units:** ug/kg

| CASNO | Target Analyte | Sample Result | Samp Qual | MS Result | MS Qual | Reporting Limit | Spike Added | MS % Rec. | Control Limits |
|---|---|---|---|---|---|---|---|---|---|
| 7440-61-1 | URANIUM | 3600 | | 5210 | | 10 | 2000 | 82 | 75 - 125% |

**MSD Lab ID:** 0405097-6MSD

**Sample Aliquot:** 1 g
**Final Volume:** 100 ml

| CASNO | Target Analyte | Spike Added | MSD Result | MSD Qual | Reporting Limit | MSD % Rec. | RPD | RPD Limits |
|---|---|---|---|---|---|---|---|---|
| 7440-61-1 | URANIUM | 2000 | 4980 | N | 10 | 71 | 5 | 20 |

**Data Package ID:** *IM0405097-2*

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# ICPMS Metals

## Method SW6020

## Analytical Spike Sample Recovery

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Field ID:** GR-03
**LabID:** 0405097-6A

**Run ID:** IM040917-1A1
**Date Analyzed:** 17-Sep-04
**Result Units:** ug/l

| Target Analyte | Sample Result | Samp Qual | PS Result | PS Qual | Spike Added | PS % Rec. | Control Limits |
|---|---|---|---|---|---|---|---|
| URANIUM | 3.5706 | | 5.4737 | | 2 | 95 | 75 - 125% |

**Data Package ID:** *IM0405097-2*

# ICPMS Metals

## Method SW6020

## Duplicate Sample Results

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Field ID:** GR-03
**Lab ID:** 0405097-6D

**Sample Matrix:** SOLID
**% Moisture:** N/A
**Date Collected:** 05/07/2004
**Date Extracted:** 09/16/2004
**Date Analyzed:** 09/17/2004

**Prep Batch:** IP040916-2
**QCBatchID:** IP040916-2-2
**Run ID:** IM040917-1A1
**Cleanup:** NONE
**Basis:** As Received

**Sample Aliquot:** 1 g
**Final Volume:** 100 ml
**Result Units:** ug/kg
**Clean DF:** 1
**File Name:** 17SEP04A

| CASNO | Target Analyte | Sample Result | Samp Qual | Duplicate Result | Dup Qual | Reporting Limit | Dilution Factor | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 7440-61-1 | URANIUM | 3600 | | 3450 | | 10 | 10 | 4 | 20 |

**Data Package ID:** *IM0405097-2*

# ICPMS Metals

## Method SW6020
## Serial Dilution

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Field ID:** GR-03
**Lab ID:** 0405097-6L

**Run ID:** IM040917-1A1
**Date Analyzed:** 17-Sep-04
**Result Units:** ug/l

| CASNO | Target Analyte | Sample Result | Samp Qual | SD Result | SD Qual | EPA Qualifier | %D |
|---|---|---|---|---|---|---|---|
| 7440-61-1 | URANIUM | 3.5706 | | 3.74375 | | | 5 |

**Data Package ID:** *IM0405097-2*

# URANIUM

## Method SW6020

## Calibration Verifications

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Date Analyzed:** 17-Sep-04
**Run ID:** IM040917-1A1
**Result Units:** ug/l

| Lab ID | Verification Type | Spike Added | Result | Reporting Limit | Result Qualifier | % Rec. | Control Limits |
|---|---|---|---|---|---|---|---|
| CCV1 | Continuing Calibration | 2 | 2.01 | 0.01 | N/A | 100 | 90 - 110 |
| CCV2 | Continuing Calibration | 2 | 2.03 | 0.01 | N/A | 101 | 90 - 110 |
| CCV3 | Continuing Calibration | 2 | 2.05 | 0.01 | N/A | 103 | 90 - 110 |
| CCV4 | Continuing Calibration | 2 | 2.04 | 0.01 | N/A | 102 | 90 - 110 |
| ICV | Initial Calibration | 2.5 | 2.53 | 0.01 | N/A | 101 | 90 - 110 |

**Data Package ID:** *IM0405097-2*

# URANIUM

## Method SW6020

## Calibration Blanks

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Date Analyzed:** 17-Sep-04
**Run ID:** IM040917-1A1
**Result Units:** ug/l

| Lab ID | Verification Type | Date Analyzed | Result | Reporting Limit | Flag |
|---|---|---|---|---|---|
| CCB1 | Continuing Calibration | 9/17/2004 | 0.01 | 0.01 | U |
| CCB2 | Continuing Calibration | 9/17/2004 | 0.01 | 0.01 | U |
| CCB3 | Continuing Calibration | 9/17/2004 | 0.01 | 0.01 | U |
| CCB4 | Continuing Calibration | 9/17/2004 | 0.01 | 0.01 | U |
| ICB | Initial Calibration | 9/17/2004 | 0.01 | 0.01 | U |

**Data Package ID:** *IM0405097-2*

# ICPMS Metals

## Method SW6020

## ICP Interference Check Sample

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Run ID:** IM040917-1A1
**Date Analyzed:** 09/17/2004
**Result Units:** ug/l

| CASNO | Target Analyte | Spike Added | | Results | | % Rec. |
|---|---|---|---|---|---|---|
| | | ICSA1 | ICSAB1 | ICSA1 | ICSAB1 | |
| 7440-61-1 | URANIUM | | 2 | | 2.20000 | 110 |

**Data Package ID:** *IM0405097-2*

# Metals Linear Ranges

**Lab Name:** **Paragon Analytics**
**Work Order Number:** 0405097
**Client Name:** Kent & Sullivan Inc.
**ClientProject ID:** Ross Adams

**Instrument ID:** ICPMS
**Active Date:** 07/16/2004
**Expiration Date:** 10/15/2004

| CASNO | Target Analyte | Concentration (ppm) |
|---|---|---|
| 7429-90-5 | ALUMINUM | 0.2 |
| 7440-38-2 | ARSENIC | 0.02 |
| 7439-92-1 | LEAD | 0.05 |
| 7440-61-1 | URANIUM | 0.01 |

# ICPMS Run Log -- 9/17/2004

**Instrument ID:** ICPMS
**File Name:** 17SEP04A
**AnalRunID:** IM040917-1A1
**CalibRefID:** IM040917-1A1

| Comment | Field ID | Lab ID | QC Type | DF | Date Analyzed | Time Analyzed | Prep Batch ID |
|---|---|---|---|---|---|---|---|
| | | 0 | 0 STD | | 9/17/2004 | 13:17 | |
| | | RL | RL ST | | 9/17/2004 | 13:20 | |
| | | LOW | LOW S | | 9/17/2004 | 13:24 | |
| | | MID | MID S | | 9/17/2004 | 13:28 | |
| | | HIGH | HIGH | | 9/17/2004 | 13:32 | |
| | | MIXAHIGH | MIXAH | 1 | 9/17/2004 | 13:35 | |
| | | ICV | ICV | 1 | 9/17/2004 | 13:39 | |
| | | ICB | ICB | 1 | 9/17/2004 | 13:48 | |
| | | CRI1 | CRI | 1 | 9/17/2004 | 13:54 | |
| | | ICSA1 | ICSA | 1 | 9/17/2004 | 13:57 | |
| | | ICSAB1 | ICSAB | 1 | 9/17/2004 | 14:01 | |
| | | CCV1 | CCV | 1 | 9/17/2004 | 14:05 | |
| | | CCB1 | CCB | 1 | 9/17/2004 | 14:09 | |
| | | IP040916-2 | MB | 10 | 9/17/2004 | 14:13 | IP040916-2 |
| | | IP040916-2 | LCS | 10 | 9/17/2004 | 14:16 | IP040916-2 |
| | GR-03 | 0405097-6 | SMP | 10 | 9/17/2004 | 14:20 | IP040916-2 |
| | GR-03 | 0405097-6 | DUP | 10 | 9/17/2004 | 14:24 | IP040916-2 |
| | GR-03 | 0405097-6 | SER | 50 | 9/17/2004 | 14:28 | IP040916-2 |
| | GR-03 | 0405097-6 | MS | 10 | 9/17/2004 | 14:31 | IP040916-2 |
| | GR-03 | 0405097-6 | MSD | 10 | 9/17/2004 | 14:35 | IP040916-2 |
| | | CCV2 | CCV | 1 | 9/17/2004 | 14:39 | |
| | | CCB2 | CCB | 1 | 9/17/2004 | 14:43 | |
| | | F040915-1 | MB | 10 | 9/17/2004 | 14:47 | IP040917-21 |
| | | 0409105-1 | SMP | 10 | 9/17/2004 | 14:50 | IP040917-21 |
| | | 0409105-2 | SMP | 10 | 9/17/2004 | 14:54 | IP040917-21 |
| | | 0409105-2 | SER | 50 | 9/17/2004 | 14:58 | IP040917-21 |
| | | 0409105-2 | MS | 10 | 9/17/2004 | 15:02 | IP040917-21 |
| | | 0409105-2 | MSD | 10 | 9/17/2004 | 15:05 | IP040917-21 |
| | | CCV3 | CCV | 1 | 9/17/2004 | 15:09 | |
| | | CCB3 | CCB | 1 | 9/17/2004 | 15:13 | |
| | | 0408177-4 | SMP | 100 | 9/17/2004 | 15:22 | IP040917-21 |
| | | 0408177-4 | DUP | 100 | 9/17/2004 | 15:25 | IP040917-21 |
| | | 0408177-4 | DUP | 100 | 9/17/2004 | 15:29 | IP040917-21 |
| | | 0408177-4 | SMP | 10 | 9/17/2004 | 15:33 | IP040917-21 |
| | | 0408177-4 | DUP | 10 | 9/17/2004 | 15:37 | IP040917-21 |

**Data Package ID: IM0405097-2**

# ICPMS Run Log -- 9/17/2004

**Instrument ID:** ICPMS
**File Name:** 17SEP04A
**AnalRunID:** IM040917-1A1
**CalibRefID:** IM040917-1A1

| Comment | Field ID | Lab ID | QC Type | DF | Date Analyzed | Time Analyzed | Prep Batch ID |
|---|---|---|---|---|---|---|---|
| | | 0408177-4 | DUP | 10 | 9/17/2004 | 15:40 | IP040917-21 |
| | GR-03 | 0405097-6 | A | 10 | 9/17/2004 | 15:44 | IP040916-2 |
| | | ICSA_MO | ICSA_ | 1 | 9/17/2004 | 15:48 | |
| | | ICSAB_MO | ICSAB | 1 | 9/17/2004 | 15:52 | |
| | | CCV4 | CCV | 1 | 9/17/2004 | 16:02 | |
| | | CCB4 | CCB | 1 | 9/17/2004 | 16:05 | |
| | | 0409067-1 | SMP | 50 | 9/17/2004 | 16:08 | IP040917-21 |
| | | 0409067-2 | SMP | 50 | 9/17/2004 | 16:12 | IP040917-21 |
| | | 0409067-3 | SMP | 50 | 9/17/2004 | 16:16 | IP040917-21 |
| | | 0409067-3 | SER | 250 | 9/17/2004 | 16:20 | IP040917-21 |
| | | 0409067-3 | MS | 50 | 9/17/2004 | 16:23 | IP040917-21 |
| | | 0409067-3 | MSD | 50 | 9/17/2004 | 16:27 | IP040917-21 |
| | | 0409067-4 | SMP | 50 | 9/17/2004 | 16:31 | IP040917-21 |
| | | 0409067-5 | SMP | 50 | 9/17/2004 | 16:35 | IP040917-21 |
| | | CCV5 | CCV | 1 | 9/17/2004 | 16:38 | |
| | | CCB5 | CCB | 1 | 9/17/2004 | 16:42 | |

**Data Package ID: IM0405097-2**

Raw Data

HEADER INFORMATION FOR ANALYTICAL SEQUENCE T40917A

STANDARD SOLUTION CODES

Reviewed AF 9/20/04

MIX A High Standard (ST040602-1) exp 06/02/05

| Element | ug/ml |
|---|---|
| Ca,Mg,Al | 500 |
| Fe | 200 |
| Na,K | 100 |

The following dilutions of MIX A high standard were made to provide additional calibration standards (prepared daily).

| Standard | Dilution | Procedure |
|---|---|---|
| MIX A (1/2) | 1/2 | 5ml MIX A high standard diluted to 10ml final volume |
| MIX A (1/10) | 1/10 | 1ml MIX A high standard diluted to 10ml final volume |
| MIX A (1/100) | 1/100 | 1ml of 1/10 dilution diluted to 10ml final volume |

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MIX B High Standard -- made fresh daily as described below

4.0ml Intermediate Mix (ST040602-2) exp 05/21/05
0.04ml 1000ug/ml Ag (ST040602-37) exp 08/21/05
brought to a final volume of 20ml. The resulting concentrations are:

| Element | Concentration (ug/ml) |
|---|---|
| Ag,Sb | 2 |
| Ba,Be,Cd,Co,Cu | 10 |
| Cr,Mn,Ni,V,Zn | 10 |
| As,Pb,Se,Tl | 10 |

The following dilutions of the MIX B high standard were made to provide additional calibration standards.

| Standard | Dilution | Procedure |
|---|---|---|
| MIX B (1/10) | 1/10 | 1ml of MIX B high standard to 10ml final volume |
| MIX B (1/100) | 1/100 | 1ml of 1/10 dilution diluted to 10ml final volume |

---

MIX C High Standard (ST040812-13) exp 08/21/05

| Element | ug/ml |
|---|---|
| U,Si | 50 |

| | |
|---|---|
| Li,Mo,Ti | 10 |
| Sr,Sn,B | 10 |

The following dilutions of MIX C High standard were made to provide additional calibration standards (prepared daily).

| Standard | Dilution | Procedure |
|---|---|---|
| MIX C (1/10) | 1/10 | 1ml MIX A high standard diluted to 10ml final volume |
| MIX C (1/100) | 1/100 | 1ml of 1/10 dilution diluted to 10ml final volume |

Reporting Limit Standard (RL STD) -- made fresh daily as described below

0.1ml Intermediate RL STD MIX 1 (ST040602-7) exp 5/21/05
0.1ml Intermediate RL STD MIX 2 (ST040602-8) exp 6/02/05
0.05ml Non-TAL Intermediate (ST040812-11) exp 8/21/05

brought to 100ml final volume. The resulting concentrations are:

| Element | Concentration (ug/ml) |
|---|---|
| Ca,Mg,Na,K | 0.5 |
| Al,Fe,B | 0.1 |
| U | 0.2 |
| Si,Sn | 0.05 |
| Li,Mo,Ti,Sr | 0.01 |
| Sb | 0.008 |
| Ni,Zn,As,Se,Tl | 0.005 |
| Pb | 0.003 |
| Ba,Cr,Co,Cu | 0.002 |
| Mn,Ag,V | 0.002 |
| Be,Cd | 0.001 |

ICSA (preparation date: 09/15/04)
Made by diluting:
10ml (ST040525-43) exp 11/07/05
to 100ml final volume

| Element | ug/ml |
|---|---|
| Ca,Mg,Al | 500 |
| Fe | 200 |

ICSAB (prepraration date: 09/10/04)
Made by diluting:
10ml (ST040525-43) exp 11/07/05
1.0ml (ST040525-42) exp 11/13/05
1.0ml Non-TAL ICSAB Int. (ST040812-15) exp 08/21/05

to 100ml final volume

| Element | ug/ml |
|---|---|
| Ca,Mg,Al | 500 |
| Fe | 200 |
| Cd,Ni,Zn,Li,Sn | 1.0 |
| Mo,Si,Ti,Sr,B | 1.0 |
| Sb | 0.6 |
| Ba,Be,Co,Cr | 0.5 |
| Cu,Mn,V | 0.5 |
| Ag | 0.2 |
| As,Tl | 0.1 |
| Pb,Se | 0.05 |

CCV (check standard) -- preparation date: 09/14/04
made by diluting:
0.5ml IV-7 (ST040521-31) exp 06/01/05
0.5ml IV-19 (ST040521-32) exp 06/01/05
5.0ml Major Element 2nd source (ST040602-3) exp 06/02/05
0.5ml Non-TAL CCV Int. (ST040812-14) exp 11/07/05

to 100ml final volume. The resulting concentrations are:

| Element | Concentration (ug/ml) |
|---|---|
| Al,Ca,Mg | 50.5 |
| Fe,Na | 20.5 |
| K | 20.0 |
| B | 1.0 |
| Ba,Be,Cd,Co,Cr,Li | 0.5 |
| Cu,Mn,Ni,Sb,V,Zn | 0.5 |
| As,Pb,Se,Tl,Mo,Ti | 0.5 |
| Ag,Sr,Sn | 0.5 |
| Si | 0.25 |

ICV (initial calibration check standard)
Prepared by diluting CCV (described above) 1/2. The 1/2 dilution was made by diluting 5ml of CCV to 10ml final volume. The resulting concentrations are:

| Element | Concentration (ug/ml) |
|---|---|
| Al,Ca,Mg | 25.25 |
| Fe,Na | 10.25 |
| K | 10.0 |
| B | 0.5 |
| Ba,Be,Cd,Co,Cr,Li | 0.25 |
| Cu,Mn,Ni,Sb,V,Zn | 0.25 |
| As,Pb,Se,Tl,Mo,Ti | 0.25 |
| Ag,Sr,Sn | 0.25 |
| Si | 0.125 |

CRI (preparation date: 09/16/04)
Made by diluting:
1.0ml intermediate solution 1 (ST040602-4) exp 11/07/05
1.0ml intermediate solution 2 (ST040602-5) exp 11/07/05
1.0ml intermediate solution 3 (ST040602-6) exp 11/07/05
0.5ml 2000ug/ml Ca,Mg,Na,K (ST040601-4) exp 11/07/05
0.1ml Non-TAL Int. (ST040812-11) exp 08/21/05

to 100ml final volume.

| Element | ug/ml |
|---|---|
| Ca,Mg,Na,K | 10.0 |
| Si,Sn | 0.1 |
| Fe,U,B | 0.2 |
| Al,Ba | 0.4 |
| Tl,Cr,Ag,Li,Mo | 0.02 |
| Ti,Sr | 0.02 |
| Be,Cd,Se,As | 0.01 |
| Co,V | 0.1 |
| Cu | 0.05 |
| Pb | 0.006 |
| Mn | 0.03 |
| Ni | 0.08 |
| Zn | 0.04 |
| Sb | 0.12 |

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BLANK (used for CCB) 5%HNO3,2.5%HCL in double deionized water

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Acid Lot Numbers

HNO3 -- A16051
HCl -- A21033

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Pipet ID Numbers

1.0 to 5.0ml M-55

0.1 to 1.0ml AB-001

0.01 to 0.1ml M-57

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Date of Multi-point calibration: 09/17/04

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## Interelement Interference Information

The following table summarizes spectral interferences which have been identified and for which IEC's are used. If a sample contains a concentration of an interfering element which exceeds the upper analytical range and an affected element is being determined, it is necessary to dilute the sample to bring the interfering element into the analytical range.

| Interfering Element (and upper analytical range in ug/ml) | Affected Elements |
|---|---|
| Al (500) | Pb,Se |
| Fe (200) | Cd,Pb,Se,Tl |
| Ca (500) | Pb,Ti |
| Mg (500) | Pb |
| Ba (10) | Co |
| Co (10) | Al,Ni,Fe,Pb,Tl |
| Cr (10) | As,Sb |
| Mn (10) | Tl,Pb |
| Ni (10) | Pb,Al |
| V (10) | Al,Be,Fe |
| Mo (10) | Sb,V,As,Pb,Si |
| Ti (10) | Co,Tl,Sn |
| Sn (10) | Se,Si |

The following table lists element concentrations (ug/ml) for which no significant spectral interferences have been observed.

| Element | Concentration | Element | Concentration |
|---|---|---|---|
| Pb | 100 | As | 10 |
| Ag | 10 | Tl | 10 |
| Cd | 10 | Se | 10 |
| Be | 10 | Na | 500 |
| Cu | 100 | K | 500 |
| Sb | 10 | | |
| Zn | 100 | | |

## Dilutions

5X dilutions made by diluting 1ml of sample to 5ml final volume.

2X dilutions made by diluting 5ml of sample to 10ml final volume.

3X dilutions made by diluting 2ml of sample to 6ml final volume.

10X dilutions made by diluting 1ml of sample to 10ml final volume.

20X dilutions made by diluting 0.5ml of sample to 10ml final volume.

25X dilutions made by diluting 0.2ml of sample to 5ml final volume.

50X dilutions made by diluting 0.1ml of sample to 5ml final volume.

100X dilutions made by diluting 0.1ml of sample to 10ml final volume.

500X dilutions made by diluting 0.02ml of sample to 10ml final volume.

## ANALYTICAL SPIKES

0409018-2 post spiked for the following elements at the listed concentration (ug/ml in digestate).

Zn 0.5

0.1ml of "Z Spike" (ST040901-15) brought to 5ml final volume with digestate.

---

0408237-13A post spiked for the following elements at the listed concentration (ug/ml in digestate).

Sb 1.0
Mo 1.0

0.05ml of "IV-19 Spike" (ST040521-32) brought to 5ml final volume with digestate.

---

0408236-12A post spiked for the following elements at the listed concentration (ug/ml in digestate).

Sb 1.0
Mo 1.0

0.05ml of "IV-19 Spike" (ST040521-32) brought to 5ml final volume with digestate.

---

## COMMENTS

1. Please see run log and workorders for elements of interest.

ICP REVIEWER COMMENTS

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Daily Maintenance Items

1. Check/Change pump tubing
2. Check/Empty drain container
3. Check and record As profile
4. Record As,Se signal:background ratios

Daily Maintenance Performed SW

---

Monthly Maintenance Items

1. Check/Clean torch for deposits
2. Check/Clean nebulizer and spray chamber
3. Fill water recirculating reservoir
4. Clean air filters
5. Check/Fill vacuum pump oil

Monthly Maintenance Performed on 09/01/04 (SW)

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Multi-point calibrations performed at beginning of sequence
Blank; RLSTD; Mix A: High, 1/2, 1/10, 1/100; Mix B: High, 1/10, 1/100; Mix C: High, 1/10, 1/100

| # | Sample Name | File | Method | Date | Time | OpID | Type | Mode |
|---|---|---|---|---|---|---|---|---|
| 1 | MIXCHIGH | T | 28EL | 09/17/04 | 10:20 | SW | Q | CONC |
| 2 | MIXBHIGH | T | 28EL | 09/17/04 | 10:23 | SW | Q | CONC |

| # | Sample Name | File | Method | Date | Time | OpID | Type | Mode |
|---|---|---|---|---|---|---|---|---|
| 3 | MIXAHIGH | T | 28EL | 09/17/04 | 10:25 | SW | Q | CONC |
| 4 | ICV | T | 28EL | 09/17/04 | 10:32 | SW | Q | CONC |
| 5 | ICB | T | 28EL | 09/17/04 | 10:35 | SW | B | CONC |
| 6 | CRI | T | 28EL | 09/17/04 | 10:37 | SW | S | CONC |
| 7 | ICSA | T | 28EL | 09/17/04 | 10:40 | SW | Q | CONC |
| 8 | ~~ICSAB~~ SW 9/20/04 | T | 28EL | 09/17/04 | 10:42 | SW | Q | CONC |
| 9 | ICSAB | T | 28EL | 09/17/04 | 10:45 | SW | Q | CONC |
| 10 | CCV | T | 28EL | 09/17/04 | 10:48 | SW | Q | CONC |
| 11 | CCB | T | 28EL | 09/17/04 | 10:50 | SW | B | CONC |
| 12 | IP040916-2MB | T | 28EL | 09/17/04 | 10:54 | SW | S | CONC |
| 13 | IP040916-2LCS | T | 28EL | 09/17/04 | 10:58 | SW | S | CONC |
| 14 | 0409018-1 (1) | T | 28EL | 09/17/04 | 11:01 | SW | S | CONC |
| 15 | 0409018-2 | T | 28EL | 09/17/04 | 11:03 | SW | S | CONC |
| 16 | 0409018-2D | T | 28EL | 09/17/04 | 11:06 | SW | S | CONC |
| 17 | 0409018-2L 5X | T | 28EL | 09/17/04 | 11:08 | SW | S | CONC |
| 18 | 0409018-2MS | T | 28EL | 09/17/04 | 11:11 | SW | S | CONC |
| 19 | 0409018-2MSD | T | 28EL | 09/17/04 | 11:14 | SW | S | CONC |
| 20 | 0409018-3 | T | 28EL | 09/17/04 | 11:16 | SW | S | CONC |
| 21 | 0409018-4 | T | 28EL | 09/17/04 | 11:19 | SW | S | CONC |
| 22 | CCV | T | 28EL | 09/17/04 | 11:21 | SW | Q | CONC |
| 23 | CCB | T | 28EL | 09/17/04 | 11:24 | SW | B | CONC |
| 24 | 0409018-5 (1) - Cd, Pb, Se (High Fe) | T | 28EL | 09/17/04 | 11:26 | SW | S | CONC |
| 25 | 0409018-6 (1) - Pb (High Ca) | T | 28EL | 09/17/04 | 11:29 | SW | S | CONC |
| 26 | 0409018-7 (1) | T | 28EL | 09/17/04 | 11:31 | SW | S | CONC |
| 27 | 0409018-8 | T | 28EL | 09/17/04 | 11:34 | SW | S | CONC |
| 28 | 0409018-9 | T | 28EL | 09/17/04 | 11:36 | SW | S | CONC |
| 29 | 0409018-10 (1) - Cd, Pb, Se | T | 28EL | 09/17/04 | 11:40 | SW | S | CONC |
| 30 | 0409018-11 (1) | T | 28EL | 09/17/04 | 11:42 | SW | S | CONC |
| 31 | 0409018-12 | T | 28EL | 09/17/04 | 11:45 | SW | S | CONC |
| 32 | 0409018-13 | T | 28EL | 09/17/04 | 11:47 | SW | S | CONC |
| 33 | 0409018-14 (1) - Cd, Pb, Se | T | 28EL | 09/17/04 | 11:50 | SW | S | CONC |
| 34 | CCV | T | 28EL | 09/17/04 | 11:52 | SW | Q | CONC |
| 35 | CCB | T | 28EL | 09/17/04 | 11:55 | SW | B | CONC |
| 36 | 0409018-14D | T | 28EL | 09/17/04 | 11:57 | SW | S | CONC |
| 37 | 0409018-14L 5X | T | 28EL | 09/17/04 | 12:00 | SW | S | CONC |
| 38 | 0409018-14MS | T | 28EL | 09/17/04 | 12:02 | SW | S | CONC |
| 39 | 0409018-14MSD | T | 28EL | 09/17/04 | 12:05 | SW | S | CONC |
| 40 | 0409018-15 (1) | T | 28EL | 09/17/04 | 12:07 | SW | S | CONC |
| 41 | 0409018-16 | T | 28EL | 09/17/04 | 12:10 | SW | S | CONC |
| 42 | 0409018-20 | T | 28EL | 09/17/04 | 12:12 | SW | S | CONC |
| 43 | 0409018-21 | T | 28EL | 09/17/04 | 12:15 | SW | S | CONC |
| 44 | 0405097-6 Al, As, Fe, Mn, Pb | T | 28EL | 09/17/04 | 12:17 | SW | S | CONC |
| 45 | 0405097-6D | T | 28EL | 09/17/04 | 12:20 | SW | S | CONC |
| 46 | CCV | T | 28EL | 09/17/04 | 12:22 | SW | Q | CONC |
| 47 | CCB | T | 28EL | 09/17/04 | 12:25 | SW | B | CONC |
| 48 | 0405097-6L 5X | T | 28EL | 09/17/04 | 12:28 | SW | S | CONC |
| 49 | 0405097-6MS | T | 28EL | 09/17/04 | 12:30 | SW | S | CONC |
| 50 | 0405097-6MSD | T | 28EL | 09/17/04 | 12:33 | SW | S | CONC |
| 51 | 0409018-5 2X Cd, Pb, Se | T | 28EL | 09/17/04 | 12:37 | SW | S | CONC |
| 52 | 0409018-6 2X Pb | T | 28EL | 09/17/04 | 12:39 | SW | S | CONC |
| 53 | 0409018-10 2X Cd, Pb, Se | T | 28EL | 09/17/04 | 12:42 | SW | S | CONC |
| 54 | 0409018-14 2X | T | 28EL | 09/17/04 | 12:44 | SW | S | CONC |
| 55 | 0409018-14D 2X | T | 28EL | 09/17/04 | 12:47 | SW | S | CONC |
| 56 | 0409018-14L 10X | T | 28EL | 09/17/04 | 12:49 | SW | S | CONC |

(1) = RCRA + Zn

| # | Sample Name | File | Method | Date | Time | OpID | Type | Mode |
|---|---|---|---|---|---|---|---|---|
| 57 | 0409018-14MS 2X Cd, Pb, Se | T | 28EL | 09/17/04 | 12:52 | SW | S | CONC |
| 58 | CCV | T | 28EL | 09/17/04 | 12:54 | SW | Q | CONC |
| 59 | CCB | T | 28EL | 09/17/04 | 12:57 | SW | B | CONC |
| 60 | 0409018-14MSD 2X | T | 28EL | 09/17/04 | 12:59 | SW | S | CONC |
| 61 | 0409018-2A Zn | T | 28EL | 09/17/04 | 13:02 | SW | S | CONC |
| 62 | IP040916-3MB | T | 28EL | 09/17/04 | 13:06 | SW | S | CONC |
| 63 | IP040916-3LCS | T | 28EL | 09/17/04 | 13:08 | SW | S | CONC |
| 64 | IP040916-3LCSD | T | 28EL | 09/17/04 | 13:11 | SW | S | CONC |
| 65 | F2 0408252-4 Rad Chem | T | 28EL | 09/17/04 | 13:14 | SW | S | CONC |
| 66 | 0408237-2 (2) - (3) | T | 28EL | 09/17/04 | 13:17 | SW | S | CONC |
| 67 | 0408237-3 | T | 28EL | 09/17/04 | 13:19 | SW | S | CONC |
| 68 | 0408237-4 (2) | T | 28EL | 09/17/04 | 13:22 | SW | S | CONC |
| 69 | 0408237-5 (2) (3) | T | 28EL | 09/17/04 | 13:25 | SW | S | CONC |
| 70 | CCV | T | 28EL | 09/17/04 | 13:27 | SW | Q | CONC |
| 71 | CCB | T | 28EL | 09/17/04 | 13:30 | SW | B | CONC |
| 72 | 0408237-6 (2) | T | 28EL | 09/17/04 | 13:34 | SW | S | CONC |
| 73 | 0408237-7 (2) - (3) | T | 28EL | 09/17/04 | 13:37 | SW | S | CONC |
| 74 | 0408237-8 | T | 28EL | 09/17/04 | 13:39 | SW | S | CONC |
| 75 | 0408237-9 | T | 28EL | 09/17/04 | 13:42 | SW | S | CONC |
| 76 | 0408237-10 (2) | T | 28EL | 09/17/04 | 13:44 | SW | S | CONC |
| 77 | 0408237-11 | T | 28EL | 09/17/04 | 13:47 | SW | S | CONC |
| 78 | 0408237-12 | T | 28EL | 09/17/04 | 13:49 | SW | S | CONC |
| 79 | 0408237-13 | T | 28EL | 09/17/04 | 13:52 | SW | S | CONC |
| 80 | 0408237-13D | T | 28EL | 09/17/04 | 13:54 | SW | S | CONC |
| 81 | 0408237-13L 5X | T | 28EL | 09/17/04 | 13:57 | SW | S | CONC |
| 82 | CCV | T | 28EL | 09/17/04 | 13:59 | SW | Q | CONC |
| 83 | CCB | T | 28EL | 09/17/04 | 14:02 | SW | B | CONC |
| 84 | 0408237-13MS | T | 28EL | 09/17/04 | 14:06 | SW | S | CONC |
| 85 | 0408237-13MSD | T | 28EL | 09/17/04 | 14:08 | SW | S | CONC |
| 86 | 0408237-15 | T | 28EL | 09/17/04 | 14:11 | SW | S | CONC |
| 87 | 0408237-16 | T | 28EL | 09/17/04 | 14:14 | SW | S | CONC |
| 88 | 0408237-17 | T | 28EL | 09/17/04 | 14:16 | SW | S | CONC |
| 89 | 0408237-18 | T | 28EL | 09/17/04 | 14:19 | SW | S | CONC |
| 90 | 0408237-19 | T | 28EL | 09/17/04 | 14:21 | SW | S | CONC |
| 91 | 0409018-22 RCRA+Zn | T | 28EL | 09/17/04 | 14:24 | SW | S | CONC |
| 92 | 0409018-22D | T | 28EL | 09/17/04 | 14:27 | SW | S | CONC |
| 93 | 0409018-22L 5X | T | 28EL | 09/17/04 | 14:29 | SW | S | CONC |
| 94 | CCV | T | 28EL | 09/17/04 | 14:32 | SW | Q | CONC |
| 95 | CCB | T | 28EL | 09/17/04 | 14:34 | SW | B | CONC |
| 96 | 0409018-22MS | T | 28EL | 09/17/04 | 14:37 | SW | S | CONC |
| 97 | 0409018-22MSD | T | 28EL | 09/17/04 | 14:39 | SW | S | CONC |
| 98 | 0409018-23 (RCRA+Zn) - Cd, Pb, Se | T | 28EL | 09/17/04 | 14:42 | SW | S | CONC |
| 99 | 0409018-24 RCRA+Zn | T | 28EL | 09/17/04 | 14:44 | SW | S | CONC |
| 100 | 0408237-2 2X (3) | T | 28EL | 09/17/04 | 14:50 | SW | S | CONC |
| 101 | 0408237-3 2X | T | 28EL | 09/17/04 | 14:52 | SW | S | CONC |
| 102 | 0408237-5 2X | T | 28EL | 09/17/04 | 14:55 | SW | S | CONC |
| 103 | 0408237-7 2X | T | 28EL | 09/17/04 | 14:58 | SW | S | CONC |
| 104 | 0408237-8 2X | T | 28EL | 09/17/04 | 15:00 | SW | S | CONC |
| 105 | 0408237-9 2X | T | 28EL | 09/17/04 | 15:03 | SW | S | CONC |
| 106 | CCV | T | 28EL | 09/17/04 | 15:06 | SW | Q | CONC |
| 107 | CCB | T | 28EL | 09/17/04 | 15:08 | SW | B | CONC |
| 108 | 0409018-23 2X | T | 28EL | 09/17/04 | 15:11 | SW | S | CONC |
| 109 | 0408237-13A Sb, Mo | T | 28EL | 09/17/04 | 15:13 | SW | S | CONC |
| 110 | CRI | T | 28EL | 09/17/04 | 15:16 | SW | S | CONC |

(2) = Ag, Al, As, Ba, Be, Cd, Co, Cu, Cr, Cu, Mn, Ni, Pb, Sb, Se, Zn, Mo

(3) = Cd, Pb, Se

| # | Sample Name | File | Method | Date | Time | OpID | Type | Mode |
|---|---|---|---|---|---|---|---|---|
| 111 | ICSA | T | 28EL | 09/17/04 | 15:18 | SW | Q | CONC |
| 112 | ICSAB | T | 28EL | 09/17/04 | 15:21 | SW | Q | CONC |
| 113 | CCV | T | 28EL | 09/17/04 | 15:23 | SW | Q | CONC |
| 114 | CCB | T | 28EL | 09/17/04 | 15:26 | SW | B | CONC |
| 115 | IP040916-1MB | T | 28EL | 09/17/04 | 15:36 | SW | S | CONC |
| 116 | IP040916-1LCS | T | 28EL | 09/17/04 | 15:39 | SW | S | CONC |
| 117 | IP040916-1LCSD | T | 28EL | 09/17/04 | 15:43 | SW | S | CONC |
| 118 | 0408236-2 (2) (3) | T | 28EL | 09/17/04 | 15:46 | SW | S | CONC |
| 119 | 0408236-3 (2) | T | 28EL | 09/17/04 | 15:49 | SW | S | CONC |
| 120 | 0408236-4 | T | 28EL | 09/17/04 | 15:52 | SW | S | CONC |
| 121 | 0408236-6 | T | 28EL | 09/17/04 | 15:55 | SW | S | CONC |
| 122 | 0408236-7 | T | 28EL | 09/17/04 | 15:58 | SW | S | CONC |
| 123 | 0408236-8 | T | 28EL | 09/17/04 | 16:01 | SW | S | CONC |
| 124 | 0408236-9 | T | 28EL | 09/17/04 | 16:04 | SW | S | CONC |
| 125 | CCV | T | 28EL | 09/17/04 | 16:07 | SW | Q | CONC |
| 126 | CCB | T | 28EL | 09/17/04 | 16:10 | SW | B | CONC |
| 127 | 0408236-10 (2) (3) | T | 28EL | 09/17/04 | 16:13 | SW | S | CONC |
| 128 | 0408236-11 | T | 28EL | 09/17/04 | 16:16 | SW | S | CONC |
| 129 | 0408236-12 (2) – Pb (High Ca) | T | 28EL | 09/17/04 | 16:19 | SW | S | CONC |
| 130 | 0408236-12D | T | 28EL | 09/17/04 | 16:22 | SW | S | CONC |
| 131 | 0408236-12L 5X | T | 28EL | 09/17/04 | 16:25 | SW | S | CONC |
| 132 | 0408236-12MS | T | 28EL | 09/17/04 | 16:28 | SW | S | CONC |
| 133 | 0408236-12MSD | T | 28EL | 09/17/04 | 16:31 | SW | S | CONC |
| 134 | 0408252-4 (4) – Pb (High Ca) | T | 28EL | 09/17/04 | 16:35 | SW | S | CONC |
| 135 | 0408252-5 (4) | T | 28EL | 09/17/04 | 16:38 | SW | S | CONC |
| 136 | 0408252-6 | T | 28EL | 09/17/04 | 16:41 | SW | S | CONC |
| 137 | CCV | T | 28EL | 09/17/04 | 16:44 | SW | Q | CONC |
| 138 | CCB | T | 28EL | 09/17/04 | 16:47 | SW | B | CONC |
| 139 | 0408252-7 | T | 28EL | 09/17/04 | 16:50 | SW | S | CONC |
| 140 | 0408252-8 | T | 28EL | 09/17/04 | 16:53 | SW | S | CONC |
| 141 | 0408252-9 | T | 28EL | 09/17/04 | 16:56 | SW | S | CONC |
| 142 | 0408252-10 (4) – Pb | T | 28EL | 09/17/04 | 16:59 | SW | S | CONC |
| 143 | 0408252-11 (4) | T | 28EL | 09/17/04 | 17:02 | SW | S | CONC |
| 144 | 0408252-13 | T | 28EL | 09/17/04 | 17:05 | SW | S | CONC |
| 145 | 0408252-14 | T | 28EL | 09/17/04 | 17:08 | SW | S | CONC |
| 146 | SW 9/20/04 0408236-2 2X Pb | T | 28EL | 09/17/04 | 17:11 | SW | S | CONC |
| 147 | 0408236-2D 2X | T | 28EL | 09/17/04 | 17:14 | SW | S | CONC |
| 148 | 0408236-2L 10X | T | 28EL | 09/17/04 | 17:17 | SW | S | CONC |
| 149 | CCV | T | 28EL | 09/17/04 | 17:22 | SW | Q | CONC |
| 150 | CCB | T | 28EL | 09/17/04 | 17:25 | SW | B | CONC |
| 151 | 0408236-2MS 2X | T | 28EL | 09/17/04 | 17:29 | SW | S | CONC |
| 152 | 0408236-2MSD 2X | T | 28EL | 09/17/04 | 17:31 | SW | S | CONC |
| 153 | 0408236-2 2X (3) | T | 28EL | 09/17/04 | 17:34 | SW | S | CONC |
| 154 | 0408236-10 2X | T | 28EL | 09/17/04 | 17:36 | SW | S | CONC |
| 155 | 0408236-11 2X | T | 28EL | 09/17/04 | 17:39 | SW | S | CONC |
| 156 | 0408252-4 2X Pb | T | 28EL | 09/17/04 | 17:41 | SW | S | CONC |
| 157 | 0408252-10 2X | T | 28EL | 09/17/04 | 17:44 | SW | S | CONC |
| 158 | 0408236-12A Sb, Mo | T | 28EL | 09/17/04 | 17:46 | SW | S | CONC |
| 159 | CCV | T | 28EL | 09/17/04 | 17:49 | SW | Q | CONC |
| 160 | CCB | T | 28EL | 09/17/04 | 17:51 | SW | B | CONC |
| 161 | CRI | T | 28EL | 09/17/04 | 17:54 | SW | S | CONC |
| 162 | ICSA | T | 28EL | 09/17/04 | 17:57 | SW | Q | CONC |
| 163 | ICSAB | T | 28EL | 09/17/04 | 17:59 | SW | Q | CONC |
| 164 | CCV | T | 28EL | 09/17/04 | 18:02 | SW | Q | CONC |

(2) = Ag, Al, As, Be, Ba, Cd, Co, Cr, Cu, Mn, Ni, Pb, Sb, Se, Zn, Mo
(3) = Cd, Pb, Se
(4) = Ag, As, Ba, Be, Cd, Co, Cr, Cu, Ni, Pb, Sb, Se, V, Zn

| # | Sample Name | File | Method | Date | Time | OpID | Type | Mode |
|---|---|---|---|---|---|---|---|---|
| 165 | CCB | T | 28EL | 09/17/04 | 18:04 | SW | B | CONC |

| # | Element | MIXCHIGH | MIXBHIGH | MIXAHIGH | ICV | ICB | CRI |
|---|---|---|---|---|---|---|---|
| 1 | Al | -.74018 | .04359 | 495.28 | 24.650 | .00990 | .40230 |
| 2 | Sb | .01605 | 2.0019 | .00774 | .26063 | .00273 | .12342 |
| 3 | As | .00335 | 10.004 | .00490 | .25189 | .00170 | .01202 |
| 4 | Ba | .00045 | 9.9308 | .00140 | .25011 | -.00019 | .41076 |
| 5 | Be | .00549 | 10.094 | .00188 | .25474 | .00014 | .01057 |
| 6 | Cd | -.00058 | 10.003 | -.00018 | .24473 | -.00026 | .01001 |
| 7 | Ca | .11517 | .02696 | 497.80 | 24.661 | .01424 | 9.7287 |
| 8 | Cr | .05049 | 9.9952 | .00395 | .24108 | .00018 | .01964 |
| 9 | Co | .00393 | 10.038 | .00477 | .24353 | .00046 | .10274 |
| 10 | Cu | .00117 | 9.9909 | .00428 | .24907 | .00034 | .05122 |
| 11 | Fe | -1.9876 | -.07027 | 199.41 | 9.8039 | .02097 | .17899 |
| 12 | Pb | .05809 | 9.9973 | .00005 | .24215 | -.00054 | .00560 |
| 13 | Mg | .39925 | -.03386 | 500.50 | 24.637 | -.00570 | 9.9975 |
| 14 | Mn | .00738 | 9.9944 | .00776 | .24298 | -.00016 | .03055 |
| 15 | Ni | .00374 | 10.011 | .00450 | .23958 | .00107 | .08116 |
| 16 | K_ | .14868 | .04581 | 99.288 | 9.8980 | .15301 | 9.0300 |
| 17 | Se | .00332 | 9.9879 | .00519 | .25410 | .00170 | .01231 |
| 18 | Ag | .03729 | 1.9813 | .00261 | .24205 | .00105 | .02006 |
| 19 | Na | .12479 | .10488 | 99.389 | 10.138 | .07124 | 9.0455 |
| 20 | Tl | -.02453 | 10.000 | -.00770 | .25403 | .00080 | .02156 |
| 21 | V_ | -.00467 | 9.9979 | .00524 | .24911 | .00002 | .10350 |
| 22 | Zn | .01566 | 10.028 | .00383 | .24062 | -.00179 | .04053 |
| 23 | Ti | 9.9509 | .00318 | -.05564 | .24016 | .00055 | .01942 |
| 24 | B | 9.9512 | .01997 | .00571 | .50049 | .00294 | .19753 |
| 25 | Si | 49.907 | .01865 | .01839 | .13427 | .00061 | .10105 |
| 26 | Sn | 10.060 | .00029 | .00083 | .24155 | -.00217 | .09949 |
| 27 | Mo | 10.025 | .01045 | .00434 | .24134 | .00128 | .02183 |
| 28 | Sr | 9.8415 | .00116 | .00703 | .24477 | .00016 | .02009 |

| # | Element | ICSA | ~~ICSAB~~ | ICSAB | CCV | CCB | IPO'-2MB |
|---|---|---|---|---|---|---|---|
| | | | | | | | -.0916 |
| 1 | Al | 492.53 | 512.17 | 473.13 | 49.059 | .04394 | .02902 |
| 2 | Sb | .00057 | .64422 | .60096 | .51895 | .00323 | -.00042 |
| 3 | As | .00121 | .10556 | .09688 | .50419 | .00256 | .00072 |
| 4 | Ba | .00023 | .49285 | .45838 | .49373 | -.00032 | -.00029 |
| 5 | Be | .00112 | .48510 | .45094 | .50337 | .00008 | .00004 |
| 6 | Cd | -.00178 | .91756 | .85489 | .48360 | -.00027 | -.00092 |
| 7 | Ca | 502.41 | 525.37 | 485.64 | 49.921 | .04359 | .03756 |
| 8 | Cr | -.00112 | .45083 | .41979 | .47620 | .00048 | .00009 |
| 9 | Co | .00296 | .46898 | .43433 | .48128 | .00046 | .00002 |
| 10 | Cu | -.00137 | .54087 | .49860 | .49481 | .00014 | -.00017 |
| 11 | Fe | 200.51 | 209.08 | 193.25 | 19.842 | .03626 | .02513 |
| 12 | Pb | .00116 | .04637 | .04570 | .48380 | .00016 | -.00016 |
| 13 | Mg | 509.84 | 531.98 | 489.81 | 48.885 | .02870 | .00007 |
| 14 | Mn | .00703 | .46903 | .43630 | .47770 | -.00017 | -.00021 |
| 15 | Ni | .00316 | .90641 | .84354 | .47516 | .00109 | .00093 |
| 16 | K_ | .06801 | -.02542 | -.04433 | 19.835 | .12354 | .07829 |
| 17 | Se | -.00080 | .05539 | .04707 | .50449 | .00215 | -.00002 |
| 18 | Ag | -.00030 | .20945 | .19420 | .48603 | .00080 | .00056 |
| 19 | Na | .20081 | .12524 | .10838 | 20.424 | .07408 | .07389 |
| 20 | Tl | -.01487 | .09311 | .08482 | .50940 | .00127 | .00189 |
| 21 | V_ | .00441 | .48513 | .45187 | .49367 | .00002 | -.00038 |

9/30/04

| # | Element | ICSA | ~~ICSAR~~ | ICSAB | CCV | CCB | IPO'-2MB |
|---|---|---|---|---|---|---|---|
| | | | | | | | ~0916 |
| 22 | Zn | .00282 | .89405 | .83245 | .47731 | -.00179 | -.00281 |
| 23 | Ti | -.01105 | Q-.01160 | .90474 | .47707 | .00021 | .00044 |
| 24 | B | .00161 | Q.00325 | .96417 | .99524 | .00316 | .00275 |
| 25 | Si | .00724 | Q.01889 | .94665 | .26603 | -.00018 | .01059 |
| 26 | Sn | -.00018 | Q.00379 | .92728 | .48441 | -.00064 | .00246 |
| 27 | Mo | -.00295 | Q-.00074 | .90277 | .48129 | .00196 | .00027 |
| 28 | Sr | .00555 | ~~Q.00579~~ | .91328 | .48606 | .00011 | .00010 |

| # | Element | IPO'2LCS | 040'18-1 | 040'18-2 | 040'8-2D | 040'L 5X | 040'-2MS |
|---|---|---|---|---|---|---|---|
| | | ~0916 | ~018 | → | → | → | → |
| 1 | Al | 5.0258 | 55.456 | 93.389 | 90.065 | 18.861 | 102.54 |
| 2 | Sb | .01974 | .00360 | .19695 | .19276 | .03756 | .22782 |
| 3 | As | .52927 | .03910 | .06606 | .06489 | .01402 | .56290 |
| 4 | Ba | .48894 | 1.1063 | 2.4002 | 2.2796 | .50544 | 3.1213 |
| 5 | Be | .50264 | .00846 | .00829 | .00820 | .00174 | .48458 |
| 6 | Cd | .58409 | -.00278 | -.00306 | -.00197 | -.00109 | .52984 |
| 7 | Ca | .02391 | 84.733 | 241.24 | 205.33 | 47.862 | 244.68 |
| 8 | Cr | .47658 | .07546 | .12391 | .12306 | .02637 | .55822 |
| 9 | Co | .48056 | .05071 | .07016 | .06989 | .01479 | .51905 |
| 10 | Cu | .49507 | .04798 | .08773 | .09081 | .01738 | .57514 |
| 11 | Fe | 4.6228 | 115.33 | 178.83 | 169.92 | 34.058 | 180.97 |
| 12 | Pb | .57450 | .08201 | .12349 | .19433 | .02534 | .67816 |
| 13 | Mg | -.01445 | 28.605 | 64.876 | 63.631 | 13.471 | 62.367 |
| 14 | Mn | .48496 | 2.0437 | 4.0302 | 4.3538 | .86345 | 4.9213 |
| 15 | Ni | .48523 | .09658 | .15326 | .15303 | .03300 | .59834 |
| 16 | K_ | .05279 | 8.1073 | 13.728 | 14.054 | 2.8211 | 14.741 |
| 17 | Se | .53856 | .00250 | .00559 | .00702 | .00427 | .49423 |
| 18 | Ag | .06319 | -.00312 | -.00027 | -.00041 | .00018 | .06048 |
| 19 | Na | .07564 | 1.8987 | 1.9754 | 2.3756 | .42382 | 2.4679 |
| 20 | Tl | -.00143 | -.00855 | -.00125 | -.00164 | .00307 | -.00432 |
| 21 | V_ | .48213 | .17374 | .24813 | .24868 | .05284 | .68036 |
| 22 | Zn | .48204 | .22405 | .68202 | 1.0910 | .14770 | 2.8742 |
| 23 | Ti | .00033 | .62860 | .56785 | .60629 | .12029 | .61681 |
| 24 | B | .00272 | .07667 | .13336 | .12647 | .02851 | .13477 |
| 25 | Si | .01008 | 9.1007 | 10.064 | 9.4810 | 2.0940 | 12.166 |
| 26 | Sn | .00299 | .03179 | .02887 | .02497 | .00651 | .02841 |
| 27 | Mo | .01877 | .00027 | .00027 | .00077 | .00010 | .01588 |
| 28 | Sr | .00004 | .33969 | .76872 | .74494 | .16005 | .73562 |

| # | Element | 040'2MSD | 040'18-3 | 040'18-4 | CCV | CCB | 040'18-5 |
|---|---|---|---|---|---|---|---|
| | | ~018 | → | → | | | ~018 |
| 1 | Al | 111.66 | 69.804 | 101.14 | 49.055 | .03906 | 107.04 |
| 2 | Sb | .25389 | .00005 | .00119 | .52472 | -.00016 | .00689 |
| 3 | As | .56524 | .04505 | .06599 | .50891 | .00154 | .08926 |
| 4 | Ba | 2.8560 | 1.3737 | 1.6846 | .48969 | -.00010 | 1.3111 |
| 5 | Be | .48951 | .00651 | .00886 | .50484 | .00008 | .00942 |
| 6 | Cd | .53386 | -.00265 | -.00390 | .48595 | -.00041 | -.00479 |
| 7 | Ca | 205.56 | 121.36 | 168.92 | 50.114 | .04468 | 98.617 |
| 8 | Cr | .57463 | .09543 | .13341 | .47739 | .00035 | .14003 |
| 9 | Co | .52348 | .05596 | .08125 | .48306 | .00018 | .08582 |
| 10 | Cu | .58689 | .07480 | .10533 | .49149 | -.00007 | .10483 |
| 11 | Fe | 196.44 | 131.02 | 187.45 | 19.918 | .03956 | H202.11 |

| # | Element | 040'2MSD | 040'18-3 | 040'18-4 | CCV | CCB | 040'18-5 |
|---|---|---|---|---|---|---|---|
| | | -018 | → | → | | | -018 |
| 12 | Pb | .69499 | .07880 | .07445 | .48389 | -.00079 | .07110 |
| 13 | Mg | 67.196 | 70.307 | 93.864 | 49.076 | .01647 | 83.538 |
| 14 | Mn | 4.2857 | 4.4180 | 4.7431 | .47828 | .00032 | 3.6432 |
| 15 | Ni | .61668 | .12530 | .18650 | .47731 | .00081 | .20307 |
| 16 | K_ | 15.642 | 15.414 | 15.442 | 19.696 | .15913 | 15.600 |
| 17 | Se | .49743 | -.00076 | .00217 | .50080 | .00233 | .00326 |
| 18 | Ag | .06044 | -.00035 | -.00101 | .48719 | .00081 | -.00051 |
| 19 | Na | 2.2176 | 1.2633 | 9.1950 | 20.287 | .08371 | 11.443 |
| 20 | Tl | -.00148 | -.00382 | -.00245 | .50519 | .00455 | -.00344 |
| 21 | V_ | .68531 | .21917 | .30167 | .49395 | -.00010 | .41632 |
| 22 | Zn | 1.9888 | .28599 | .24969 | .48658 | -.00198 | .26488 |
| 23 | Ti | .67336 | .51614 | .50050 | .47643 | .00022 | .50787 |
| 24 | B | .15674 | .14099 | .20602 | .99759 | .00293 | .21105 |
| 25 | Si | 13.219 | 11.489 | 9.9522 | .27318 | .00074 | 9.3288 |
| 26 | Sn | .03323 | .02566 | .03201 | .49092 | -.00098 | .03351 |
| 27 | Mo | .01537 | .00111 | -.00040 | .48351 | .00111 | .00128 |
| 28 | Sr | .72982 | .74408 | 1.0525 | .48379 | .00017 | .80215 |

| # | Element | 040'18-6 | 040'18-7 | 040'18-8 | 040'18-9 | 040'8-10 | 040'8-11 |
|---|---|---|---|---|---|---|---|
| | | -018 | → | → | → | → | → |
| 1 | Al | 80.994 | 100.14 | 73.788 | 94.684 | 112.28 | 90.612 |
| 2 | Sb | .00563 | .00330 | .00191 | .00321 | .00241 | .00526 |
| 3 | As | .04481 | .05522 | .04636 | .05667 | .24559 | .12776 |
| 4 | Ba | 4.4680 | 1.9839 | 1.4169 | 4.5805 | 4.3802 | 1.5699 |
| 5 | Be | .00745 | .00897 | .00655 | .00865 | .01037 | .00839 |
| 6 | Cd | -.00144 | -.00383 | -.00253 | -.00317 | -.00611 | -.00249 |
| 7 | Ca | H669.97 | 215.96 | 110.14 | 278.88 | 412.40 | 265.64 |
| 8 | Cr | .13557 | .16897 | .10381 | .12241 | .16905 | .11521 |
| 9 | Co | .07225 | .08281 | .05767 | .08331 | .09321 | .06937 |
| 10 | Cu | .08134 | .12160 | .07001 | .06863 | .11231 | .08600 |
| 11 | Fe | 157.72 | 188.51 | 139.14 | 170.59 | H275.82 | 180.98 |
| 12 | Pb | .07157 | .08461 | .09269 | .08014 | .07657 | .20396 |
| 13 | Mg | 280.02 | 109.45 | 59.548 | 90.033 | 71.995 | 74.522 |
| 14 | Mn | H15.220 | 5.9512 | 3.5634 | 4.4488 | 3.2415 | 4.1662 |
| 15 | Ni | .14789 | .19597 | .12912 | .17879 | .21116 | .14853 |
| 16 | K_ | 12.960 | 15.396 | 15.081 | 11.563 | 13.062 | 16.488 |
| 17 | Se | .00311 | .00288 | .00626 | .00197 | .00479 | .00425 |
| 18 | Ag | -.00046 | -.00088 | .00011 | -.00088 | -.00092 | -.00035 |
| 19 | Na | 5.3683 | 15.856 | 1.2717 | 2.5370 | 2.3534 | 1.1926 |
| 20 | Tl | -.00299 | -.00490 | -.00391 | -.00325 | -.00390 | -.00021 |
| 21 | V_ | .24772 | .33476 | .21176 | .17703 | .29110 | .23440 |
| 22 | Zn | .18841 | .21581 | .25479 | .25988 | .27368 | .35483 |
| 23 | Ti | .53858 | .45114 | .56094 | .47932 | .60043 | .48643 |
| 24 | B | .16722 | .21767 | .13378 | .12138 | .15579 | .12504 |
| 25 | Si | 8.3428 | 9.5266 | 10.661 | 9.2761 | 7.7116 | 8.3157 |
| 26 | Sn | .02579 | .03088 | .03181 | .03329 | .03230 | .02543 |
| 27 | Mo | .00010 | .00128 | -.00006 | .00044 | -.00108 | -.00074 |
| 28 | Sr | 4.1842 | 1.2499 | .63139 | 1.6667 | .78793 | .61029 |

| # | Element | 040'8-12 | 040'8-13 | 040'8-14 | CCV | CCB | 040'-14D |
|---|---|---|---|---|---|---|---|
| | | -018 | → | → | | | -018 |
| 1 | Al | 90.462 | 71.261 | 91.637 | 49.265 | .03819 | 92.479 |
| 2 | Sb | .00443 | .00377 | .00478 | .51725 | -.00082 | .00424 |
| 3 | As | .04753 | .07609 | .12366 | .49967 | .00006 | .12475 |
| 4 | Ba | 4.7027 | 1.5552 | 2.4545 | .48861 | .00005 | 3.7206 |
| 5 | Be | .00744 | .00999 | .00876 | .50055 | .00009 | .00886 |
| 6 | Cd | -.00349 | -.00320 | -.00414 | .47855 | -.00051 | -.00415 |
| 7 | Ca | 263.23 | 142.65 | 367.72 | 49.313 | .06512 | 364.07 |
| 8 | Cr | .12331 | .09416 | .12995 | .47407 | -.00022 | .13465 |
| 9 | Co | .07886 | .05687 | .08009 | .48190 | -.00015 | .07916 |
| 10 | Cu | .08750 | .08683 | .06627 | .49469 | .00000 | .06615 |
| 11 | Fe | 164.00 | 169.53 | H218.58 | 19.717 | .04006 | H223.85 |
| 12 | Pb | .07348 | .13558 | .08486 | .48086 | -.00028 | .08385 |
| 13 | Mg | 76.911 | 39.817 | 107.98 | 48.977 | .02295 | 103.98 |
| 14 | Mn | 3.4493 | 3.3006 | 5.5852 | .47451 | .00054 | 5.5713 |
| 15 | Ni | .17969 | .11720 | .17069 | .46968 | .00042 | .17373 |
| 16 | K_ | 10.925 | 15.128 | 12.631 | 19.864 | .08768 | 12.700 |
| 17 | Se | .00590 | .00368 | .00065 | .50617 | .00241 | .00428 |
| 18 | Ag | -.00005 | -.00170 | -.00070 | .48603 | .00027 | .00002 |
| 19 | Na | 4.9235 | .82024 | 5.3438 | 20.482 | .08887 | 5.1276 |
| 20 | Tl | -.00193 | -.00314 | -.00324 | .50701 | .00064 | -.00079 |
| 21 | V_ | .17415 | .16496 | .19350 | .49148 | -.00052 | .19899 |
| 22 | Zn | .21322 | .40117 | .20211 | .48148 | -.00253 | .19906 |
| 23 | Ti | .45285 | .57836 | .50611 | .47407 | .00021 | .50691 |
| 24 | B | .12657 | .11566 | .16931 | .99341 | .00282 | .17004 |
| 25 | Si | 7.2937 | 8.4032 | 10.722 | Q.28008 | .00178 | 9.7308 |
| 26 | Sn | .02737 | .03191 | .02946 | .48852 | -.00084 | .02953 |
| 27 | Mo | -.00074 | .00298 | -.00091 | .48589 | .00094 | .00010 |
| 28 | Sr | .94027 | .34922 | 1.8120 | .48145 | .00027 | 1.5664 |

| # | Element | 040'L 5X | 040'14MS | 040'4MSD | 040'8-15 | 040'8-16 | 040'8-20 |
|---|---|---|---|---|---|---|---|
| | | -018 | → | → | → | → | → |
| 1 | Al | 18.426 | 105.72 | 100.97 | 90.904 | 63.318 | 112.36 |
| 2 | Sb | .00207 | .01028 | .00697 | .00271 | .00110 | .00201 |
| 3 | As | .02595 | .63175 | .62164 | .07458 | .04282 | .06490 |
| 4 | Ba | .52091 | 6.4690 | 2.8161 | 1.8742 | 1.1080 | 1.9872 |
| 5 | Be | .00182 | .48411 | .47731 | .00807 | .00550 | .00900 |
| 6 | Cd | -.00116 | .52281 | .51794 | -.00218 | -.00122 | -.00280 |
| 7 | Ca | 72.583 | 336.29 | 291.71 | 226.92 | 81.830 | 255.45 |
| 8 | Cr | .02783 | .57178 | .55833 | .11453 | .09530 | .13673 |
| 9 | Co | .01719 | .52891 | .52262 | .06897 | .04825 | .07511 |
| 10 | Cu | .01400 | .55468 | .54456 | .08253 | .06729 | .10130 |
| 11 | Fe | 41.544 | H228.04 | H221.25 | 177.17 | 120.23 | 194.05 |
| 12 | Pb | .01843 | .62580 | .62343 | .10586 | .13265 | .09897 |
| 13 | Mg | 22.315 | 106.02 | 100.93 | 62.027 | 46.477 | 65.242 |
| 14 | Mn | 1.2055 | 6.0328 | 5.7305 | 3.9962 | 2.7658 | 5.5345 |
| 15 | Ni | .03683 | .62025 | .61189 | .14909 | .10644 | .15670 |
| 16 | K_ | 2.5448 | 13.780 | 12.875 | 16.276 | 14.123 | 15.590 |
| 17 | Se | .00420 | .47403 | .47326 | .00147 | .00207 | .00330 |
| 18 | Ag | .00027 | .06132 | .06017 | -.00038 | -.00003 | -.00074 |
| 19 | Na | 1.0289 | 5.1200 | 5.0951 | 1.2050 | .91235 | 1.2391 |
| 20 | Tl | -.00223 | -.00318 | -.00349 | -.00191 | -.00198 | -.00247 |
| 21 | V_ | .04159 | .61084 | .59119 | .23221 | .14643 | .29343 |

| # | Element | 040'L 5X | 040'14MS | 040'4MSD | 040'8-15 | 040'8-16 | 040'8-20 |
|---|---|---|---|---|---|---|---|
| | | ~018 → | | | | | |
| 22 | Zn | .04644 | .64541 | .64114 | .28349 | .47165 | .25803 |
| 23 | Ti | .10853 | .62655 | .54448 | .51034 | .56144 | .60308 |
| 24 | B | .03625 | .17124 | .16348 | .12631 | .11378 | .11812 |
| 25 | Si | 2.2215 | 12.411 | 11.373 | 9.9278 | 9.2785 | 8.5172 |
| 26 | Sn | .00286 | .03264 | .03099 | .02563 | .03188 | .02933 |
| 27 | Mo | .00094 | .01554 | .01469 | .00044 | .00162 | -.00057 |
| 28 | Sr | .38019 | 1.5103 | 1.4764 | .68936 | .72193 | .57686 |

| # | Element | 040'8-21 | 040'97-6 | 040'7-6D | CCV | CCB | 040'L 5X |
|---|---|---|---|---|---|---|---|
| | | ~018 | ~097 → | | | | ~097 |
| 1 | Al | 77.627 | 4.7030 | 4.5532 | 49.413 | .03507 | .93895 |
| 2 | Sb | .00053 | .00242 | .00361 | .51870 | .00056 | .00364 |
| 3 | As | .04806 | .00769 | .00831 | .50271 | .00358 | .00482 |
| 4 | Ba | 1.8383 | .06891 | .06976 | .48763 | .00005 | .01368 |
| 5 | Be | .00686 | .00126 | .00126 | .50456 | .00010 | .00022 |
| 6 | Cd | -.00241 | -.00069 | -.00106 | .47948 | -.00048 | -.00040 |
| 7 | Ca | 157.46 | 3.6557 | 3.8456 | 49.533 | .06355 | .71918 |
| 8 | Cr | .11071 | .12237 | .12097 | .47819 | -.00005 | .02447 |
| 9 | Co | .06476 | .00028 | .00042 | .48577 | -.00043 | .00061 |
| 10 | Cu | .07737 | .00350 | .00334 | .49622 | .00030 | .00126 |
| 11 | Fe | 156.50 | 8.6441 | 8.7023 | 19.908 | .04385 | 1.6541 |
| 12 | Pb | .08221 | .08692 | .08354 | .48023 | -.00112 | .01640 |
| 13 | Mg | 68.047 | .18280 | .16182 | 49.448 | .02529 | .02457 |
| 14 | Mn | 4.1947 | .21264 | .21188 | .47760 | .00054 | .04281 |
| 15 | Ni | .14443 | .00632 | .00648 | .47346 | .00086 | .00229 |
| 16 | K_ | 14.758 | 2.3257 | 2.2276 | 19.900 | .07670 | .61587 |
| 17 | Se | .00175 | .00005 | -.00115 | .50421 | .00155 | -.00086 |
| 18 | Ag | -.00044 | -.00124 | -.00188 | .48833 | .00000 | .00042 |
| 19 | Na | 1.6724 | 1.8843 | 1.7787 | 20.482 | .09316 | .45376 |
| 20 | Tl | -.00320 | -.00069 | .00261 | .50815 | -.00169 | .00238 |
| 21 | V_ | .21107 | .00072 | .00044 | .49575 | -.00024 | -.00010 |
| 22 | Zn | .27470 | .20692 | .14807 | .49113 | -.00262 | .04006 |
| 23 | Ti | .54551 | .24486 | .25246 | .47534 | .00014 | .04956 |
| 24 | B | .15474 | .00632 | .00525 | .99373 | .00294 | .00296 |
| 25 | Si | 9.2285 | 6.7315 | 5.4473 | Q.28102 | .00159 | 1.3502 |
| 26 | Sn | .03418 | .02397 | .02050 | .50268 | -.00164 | .00499 |
| 27 | Mo | .00027 | .00790 | .00587 | .49288 | .00027 | .00162 |
| 28 | Sr | .95328 | .01623 | .01785 | .48117 | .00027 | .00326 |

| # | Element | 040'-6MS | 040'6MSD | 040'5 2X | 040'6 2X | 040'0 2X | 040'4 2X |
|---|---|---|---|---|---|---|---|
| | | ~097 → | | 5 | 6 | 10 | 14 |
| 1 | Al | 9.5727 | 9.8126 | 54.167 | 41.404 | 56.551 | 46.392 |
| 2 | Sb | .01593 | .01529 | .00266 | .00024 | .00369 | .00388 |
| 3 | As | .53590 | .54287 | .04790 | .02271 | .12475 | .06468 |
| 4 | Ba | .55248 | .55947 | .67339 | 2.3130 | 2.2540 | 1.2683 |
| 5 | Be | .51620 | .51816 | .00476 | .00382 | .00531 | .00449 |
| 6 | Cd | .58351 | .58688 | -.00216 | -.00086 | -.00272 | -.00202 |
| 7 | Ca | 3.3659 | 3.7587 | 49.036 | 320.53 | 206.69 | 183.79 |
| 8 | Cr | .60808 | .63768 | .07190 | .07127 | .08991 | .06789 |
| 9 | Co | .49208 | .49271 | .04441 | .03743 | .04951 | .04141 |
| 10 | Cu | .50081 | .50584 | .05302 | .04211 | .05728 | .03374 |
| 11 | Fe | 13.391 | 13.740 | 97.417 | 78.669 | 132.36 | 106.80 |

| # | Element | 040'-6MS | 040'6MSD | 040'5 2X | 040'6 2X | 040'0 2X | 040'4 2X |
|---|---|---|---|---|---|---|---|
| | | -097 | | 5 | 6 | 10 | 14 |
| 12 | Pb | .65728 | .66017 | .03670 | .03709 | .03827 | .04477 |
| 13 | Mg | .14753 | .14823 | 42.515 | 140.90 | 37.255 | 55.361 |
| 14 | Mn | .68429 | .69188 | 1.8751 | 7.9070 | 1.6984 | 2.9135 |
| 15 | Ni | .49234 | .50231 | .10417 | .07785 | .11134 | .08998 |
| 16 | K_ | 2.2558 | 2.5066 | 8.0255 | 6.5766 | 6.5745 | 6.3955 |
| 17 | Se | .53520 | .54749 | .00328 | .00318 | .00303 | .00380 |
| 18 | Ag | .06061 | .06076 | -.00006 | -.00030 | .00049 | -.00036 |
| 19 | Na | 1.8158 | 3.5766 | 5.6768 | 2.6539 | 1.1693 | 2.6154 |
| 20 | Tl | .00107 | -.00196 | -.00422 | -.00023 | -.00135 | -.00335 |
| 21 | V_ | .48914 | .49120 | .21272 | .12955 | .15219 | .10059 |
| 22 | Zn | .64829 | .65470 | .13734 | .10034 | .14622 | .10728 |
| 23 | Ti | .20855 | .20916 | .26241 | .28805 | .31444 | .26582 |
| 24 | B | .00533 | .00560 | .10621 | .08578 | .08048 | .08600 |
| 25 | Si | 5.3841 | 5.1675 | 5.2638 | 4.9759 | 4.6284 | 5.9100 |
| 26 | Sn | .02371 | .02384 | .01757 | .01220 | .01467 | .01281 |
| 27 | Mo | .02556 | .02556 | .00111 | -.00125 | .00128 | -.00006 |
| 28 | Sr | .01619 | .01855 | .40764 | 2.1581 | .40237 | .93022 |

| # | Element | 040'D 2X | 040' 10X | 040'S 2X | CCV | CCB | 040'D 2X |
|---|---|---|---|---|---|---|---|
| | | 14D | 14L | 14MS | | | 14MSD |
| 1 | Al | 46.835 | 9.2130 | 53.783 | 49.177 | .01830 | 51.036 |
| 2 | Sb | .00154 | .00301 | .00295 | .51958 | .00142 | .00684 |
| 3 | As | .06087 | .01239 | .32555 | .50682 | .00131 | .31783 |
| 4 | Ba | 1.9218 | .26324 | 3.3128 | .48505 | .00008 | 1.4614 |
| 5 | Be | .00449 | .00089 | .24781 | .50577 | .00005 | .24730 |
| 6 | Cd | -.00188 | -.00085 | .27332 | .48181 | -.00053 | .27380 |
| 7 | Ca | 180.81 | 35.942 | 168.08 | 49.757 | .05620 | 147.50 |
| 8 | Cr | .07035 | .01420 | .29782 | .47896 | -.00017 | .29322 |
| 9 | Co | .04139 | .00874 | .27527 | .48711 | -.00002 | .27337 |
| 10 | Cu | .03365 | .00726 | .28009 | .49354 | .00062 | .27524 |
| 11 | Fe | 108.30 | 20.491 | 110.30 | 19.942 | .03629 | 108.08 |
| 12 | Pb | .04313 | .00805 | .32007 | .48431 | -.00168 | .32114 |
| 13 | Mg | 53.180 | 11.332 | 54.472 | 49.499 | .01683 | 51.901 |
| 14 | Mn | 2.8921 | .61449 | 3.1293 | .47793 | .00045 | 2.9954 |
| 15 | Ni | .08972 | .01858 | .32336 | .47402 | .00100 | .32401 |
| 16 | K_ | 6.4324 | 1.2943 | 7.0227 | 19.809 | .10351 | 6.5144 |
| 17 | Se | .00342 | .00453 | .24691 | .50444 | .00025 | .24313 |
| 18 | Ag | .00015 | .00103 | .03084 | .48744 | .00060 | .03069 |
| 19 | Na | 2.5179 | .53205 | 2.5224 | 20.408 | .09521 | 2.4833 |
| 20 | Tl | -.00161 | .00047 | -.00260 | .51160 | -.00044 | -.00169 |
| 21 | V_ | .10265 | .02060 | .31527 | .49451 | -.00052 | .30827 |
| 22 | Zn | .10414 | .02056 | .34232 | .49781 | -.00318 | .34315 |
| 23 | Ti | .26306 | .05526 | .32131 | .47410 | .00026 | .28636 |
| 24 | B | .08609 | .01839 | .08813 | .99424 | .00250 | .08479 |
| 25 | Si | 5.8180 | 1.2056 | 6.5717 | .27328 | .00061 | 6.3463 |
| 26 | Sn | .01207 | .00064 | .01676 | .50321 | -.00210 | .01392 |
| 27 | Mo | .00010 | -.00006 | .00824 | .49628 | .00094 | .00824 |
| 28 | Sr | .79852 | .19100 | .77147 | .47944 | .00026 | .76045 |

-018 | -0916 → | F2 0408252-4 | -237

| # | Element | 040'8-2A -2A | IPO'-3MB | IPO'3LCS | IPO'LCSD | F2 '52-4 (Rad Chem) | 040'37-2 |
|---|---|---|---|---|---|---|---|
| 1 | Al | 94.982 | -.00052 | 1.8967 | 1.9009 | .05488 | 208.30 |
| 2 | Sb | .71212 | .00128 | .50403 | .50176 | .00130 | .00485 |
| 3 | As | 2.0831 | .00171 | 1.9932 | 1.9910 | .00066 | .09271 |
| 4 | Ba | 4.2523 | .00034 | 1.9333 | 1.9400 | .00197 | 2.0854 |
| 5 | Be | .05840 | -.00003 | .04988 | .04991 | -.00003 | .01699 |
| 6 | Cd | .04430 | -.00090 | .04788 | .04782 | -.00106 | -.00033 |
| 7 | Ca | 235.09 | .04623 | .03957 | .03525 | .19324 | 370.13 |
| 8 | Cr | .30443 | -.00038 | .19171 | .19263 | -.00091 | .13928 |
| 9 | Co | .54425 | .00008 | .48546 | .48579 | .00162 | .07155 |
| 10 | Cu | .34243 | .00086 | .24664 | .24837 | .00078 | .21601 |
| 11 | Fe | 176.75 | .15481 | 1.0907 | .92824 | .02225 | H212.94 |
| 12 | Pb | .60103 | -.00252 | .47659 | .47708 | .00117 | .16668 |
| 13 | Mg | 64.506 | -.00798 | -.00920 | -.01410 | .04785 | 130.23 |
| 14 | Mn | 4.4090 | .00056 | .48077 | .48096 | .00017 | 4.8709 |
| 15 | Ni | .61394 | .00064 | .48019 | .48141 | .00154 | .19644 |
| 16 | K_ | 13.716 | .09032 | .06681 | .07110 | .11296 | 84.425 |
| 17 | Se | 2.1202 | .00193 | 2.0071 | 1.9813 | .00603 | .00768 |
| 18 | Ag | -.00043 | .00028 | .04498 | .04484 | .00010 | -.00029 |
| 19 | Na | 2.0005 | .09484 | .10155 | .10225 | .09515 | 7.6003 |
| 20 | Tl | 2.0231 | .00302 | 1.9600 | 1.9625 | .00611 | -.00186 |
| 21 | V_ | .71599 | -.00024 | .48243 | .48340 | -.00024 | .21190 |
| 22 | Zn | 1.1655 | -.00188 | .49261 | .49215 | .03128 | .81021 |
| 23 | Ti | 1.0260 | .00035 | .47172 | .47393 | .00043 | 2.6148 |
| 24 | B | 1.1560 | .00369 | .97666 | .97792 | .00962 | .14586 |
| 25 | Si | 13.005 | .01372 | 1.2845 | 1.3927 | .02759 | 15.933 |
| 26 | Sn | .51336 | .00339 | .48578 | .48526 | -.00475 | .03489 |
| 27 | Mo | .95830 | .00044 | .95830 | .96120 | -.00006 | .00638 |
| 28 | Sr | 1.2192 | .00017 | .46994 | .47162 | .28112 | .89101 |

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| # | Element | 040'37-3 | 040'37-4 | 040'37-5 | CCV | CCB | -237 040'37-6 |
|---|---|---|---|---|---|---|---|
| 1 | Al | 208.78 | 180.99 | 195.42 | 49.894 | .03634 | 187.82 |
| 2 | Sb | .00774 | .00972 | .01163 | .52484 | .00341 | .00254 |
| 3 | As | .08311 | .08564 | .08941 | .51662 | .00036 | .08326 |
| 4 | Ba | 1.8654 | 2.0016 | 2.0365 | .49339 | .00020 | 1.7939 |
| 5 | Be | .01655 | .01531 | .01647 | .50960 | .00009 | .01550 |
| 6 | Cd | .00020 | .00054 | .00073 | .48525 | -.00055 | .00060 |
| 7 | Ca | 303.45 | 449.80 | 411.62 | 50.093 | .08023 | 299.99 |
| 8 | Cr | .13958 | .12362 | .13333 | .48158 | -.00011 | .12796 |
| 9 | Co | .07431 | .06429 | .07001 | .49032 | .00036 | .06448 |
| 10 | Cu | .21808 | .19472 | .20984 | .50005 | .00069 | .19983 |
| 11 | Fe | H212.54 | 184.44 | H204.30 | 20.050 | .04948 | 192.94 |
| 12 | Pb | .16553 | .14778 | .16514 | .48943 | -.00057 | .15278 |
| 13 | Mg | 118.36 | 120.54 | 133.61 | 50.083 | .02942 | 114.24 |
| 14 | Mn | 5.1888 | 4.3671 | 4.8540 | .48272 | .00078 | 4.3338 |
| 15 | Ni | .23440 | .17725 | .19279 | .47792 | .00097 | .18096 |
| 16 | K_ | 80.330 | 80.442 | 82.055 | 20.096 | .11113 | 77.235 |
| 17 | Se | .00412 | .00486 | .00573 | .50934 | .00164 | .00621 |
| 18 | Ag | -.00003 | .00027 | -.00030 | .49105 | .00038 | .00012 |
| 19 | Na | 6.1784 | 16.945 | 8.0510 | 20.693 | .09513 | 7.5516 |
| 20 | Tl | -.00204 | -.00140 | -.00060 | .51178 | .00049 | .00020 |
| 21 | V_ | .20861 | .18733 | .20449 | .49754 | -.00038 | .19268 |

| # | Element | 040'37-3 (-237) | 040'37-4 | 040'37-5 | CCV | CCB | 040'37-6 (-237) |
|---|---|---|---|---|---|---|---|
| 22 | Zn | .83003 | .72253 | .78836 | .50263 | -.00345 | .76334 |
| 23 | Ti | 2.7284 | 2.2563 | 2.3558 | .47679 | .00042 | 2.4142 |
| 24 | B | .14123 | .12578 | .14134 | 1.0042 | .00294 | .12810 |
| 25 | Si | 15.795 | 15.590 | 9.2788 | Q.28255 | .00198 | 10.785 |
| 26 | Sn | .03896 | .03404 | .04043 | .50874 | -.00290 | .03809 |
| 27 | Mo | .00553 | .00553 | .00587 | .50224 | .00128 | .00604 |
| 28 | Sr | .78040 | 1.3228 | .89846 | .48627 | .00034 | .76067 |

| # | Element | 040'37-7 (-237) | 040'37-8 | 040'37-9 | 040'7-10 | 040'7-11 | 040'7-12 |
|---|---|---|---|---|---|---|---|
| 1 | Al | 197.67 | 209.28 | 205.31 | 175.79 | 174.07 | 189.03 |
| 2 | Sb | .00775 | .00840 | .00741 | .00464 | .00498 | .00324 |
| 3 | As | .08542 | .09285 | .09192 | .07601 | .07386 | .08399 |
| 4 | Ba | 2.0201 | 2.2138 | 2.1285 | 1.9934 | 1.7436 | 1.8937 |
| 5 | Be | .01610 | .01713 | .01677 | .01468 | .01404 | .01559 |
| 6 | Cd | .00064 | .00048 | .00079 | .00065 | .00040 | .00029 |
| 7 | Ca | 378.44 | 378.32 | 374.99 | 335.90 | 314.00 | 361.23 |
| 8 | Cr | .13187 | .14213 | .13856 | .12140 | .11954 | .12575 |
| 9 | Co | .06708 | .07207 | .07289 | .06258 | .06026 | .06554 |
| 10 | Cu | .20437 | .21942 | .22088 | .18797 | .18210 | .20171 |
| 11 | Fe | H200.91 | H215.01 | H211.76 | 181.99 | 176.23 | 189.04 |
| 12 | Pb | .15893 | .16534 | .16772 | .14956 | .13886 | .14967 |
| 13 | Mg | 131.73 | 128.74 | 131.34 | 121.87 | 115.56 | 116.87 |
| 14 | Mn | 4.6755 | 4.9447 | 5.0735 | 4.3374 | 4.1300 | 4.3950 |
| 15 | Ni | .18587 | .19962 | .19911 | .17100 | .16504 | .17799 |
| 16 | K_ | 80.873 | 86.003 | 85.165 | 74.142 | 70.791 | 78.163 |
| 17 | Se | .00118 | .00625 | -.00094 | .00446 | -.00077 | .00432 |
| 18 | Ag | -.00003 | -.00010 | -.00014 | -.00043 | .00023 | -.00071 |
| 19 | Na | 6.6494 | 10.042 | 6.7550 | 7.5319 | 5.6341 | 8.9596 |
| 20 | Tl | -.00286 | -.00515 | -.00151 | -.00104 | -.00331 | -.00326 |
| 21 | V_ | .19996 | .21423 | .21217 | .18280 | .18321 | .19268 |
| 22 | Zn | .76744 | .82603 | .81589 | .70367 | .68843 | .73239 |
| 23 | Ti | 2.5313 | 2.5902 | 2.4754 | 2.1762 | 2.3130 | 2.3600 |
| 24 | B | .14468 | .13792 | .13184 | .14210 | .11680 | .13257 |
| 25 | Si | 11.686 | 14.529 | 16.384 | 10.987 | 11.196 | 11.594 |
| 26 | Sn | .03469 | .04085 | .03319 | .03513 | .03740 | .03760 |
| 27 | Mo | .00536 | .00621 | .00536 | .00434 | .00553 | .00519 |
| 28 | Sr | .85579 | .94168 | .90796 | .80299 | .72678 | .90863 |

| # | Element | 040'7-13 (-237) | 040'-13D | 040'L 5X | CCV | CCB | 040'13MS |
|---|---|---|---|---|---|---|---|
| 1 | Al | 181.25 | 178.59 | 36.904 | 49.685 | .03721 | 235.90 |
| 2 | Sb | .00825 | .00930 | -.00024 | .52191 | .00313 | .18864 |
| 3 | As | .07837 | .07791 | .01625 | .50582 | .00320 | 1.9655 |
| 4 | Ba | 1.8414 | 1.9351 | .39699 | .49051 | .00028 | 3.6492 |
| 5 | Be | .01493 | .01477 | .00310 | .50238 | .00009 | .06305 |
| 6 | Cd | .00021 | .00090 | -.00065 | .47910 | -.00051 | .04466 |
| 7 | Ca | 335.37 | 354.32 | 67.321 | 49.427 | .08703 | 354.75 |
| 8 | Cr | .12115 | .11901 | .02606 | .47571 | .00030 | .30866 |
| 9 | Co | .06215 | .06122 | .01327 | .48511 | .00062 | .49987 |
| 10 | Cu | .18810 | .18875 | .03884 | .49623 | .00092 | .44492 |
| 11 | Fe | 182.24 | 180.06 | 35.406 | 19.834 | .05519 | 195.65 |

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| # | Element | 040'7-13 | 040'-13D | 040'L 5X | CCV | CCB | 040'13MS |
|---|---|---|---|---|---|---|---|
| 12 | Pb | .14310 | .14433 | .02911 | .48443 | -.00155 | .59378 |
| 13 | Mg | 116.44 | 123.52 | 24.223 | 49.570 | .03533 | 126.22 |
| 14 | Mn | 4.1986 | 4.3240 | .91468 | .47725 | .00092 | 4.7657 |
| 15 | Ni | .17221 | .17221 | .03693 | .47242 | .00095 | .61149 |
| 16 | K_ | 74.546 | 75.045 | 15.476 | 20.047 | .16170 | 82.901 |
| 17 | Se | .00483 | .00373 | .00040 | .51089 | .00428 | 1.9035 |
| 18 | Ag | -.00009 | -.00029 | .00027 | .48796 | .00062 | .04343 |
| 19 | Na | 7.0854 | 7.1224 | 1.3328 | 20.634 | .09947 | 7.6157 |
| 20 | Tl | -.00385 | .00087 | -.00121 | .51188 | -.00169 | 1.8855 |
| 21 | V_ | .18417 | .18294 | .03954 | .49246 | .00002 | .62191 |
| 22 | Zn | .70367 | .69419 | .16241 | .49270 | -.00327 | 1.2302 |
| 23 | Ti | 2.2719 | 2.1860 | .48410 | .47157 | .00067 | 3.6547 |
| 24 | B | .12498 | .12206 | .02669 | .99667 | .00337 | .94529 |
| 25 | Si | 14.047 | 11.834 | 2.9318 | Q.27901 | .00295 | 16.787 |
| 26 | Sn | .03539 | .03259 | .00526 | .50266 | -.00130 | .49648 |
| 27 | Mo | .00570 | .00519 | .00145 | .49850 | .00145 | .77010 |
| 28 | Sr | .80545 | .81303 | .17150 | .48341 | .00038 | 1.3127 |

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| # | Element | 040'3MSD | 040'7-15 | 040'7-16 | 040'7-17 | 040'7-18 | 040'7-19 |
|---|---|---|---|---|---|---|---|
| 1 | Al | 231.89 | 172.04 | 170.35 | 170.33 | 162.15 | 148.94 |
| 2 | Sb | .20259 | .00302 | .00567 | .00521 | .00506 | .00794 |
| 3 | As | 1.9554 | .07881 | .07869 | .07652 | .07647 | .06936 |
| 4 | Ba | 3.7408 | 1.9041 | 1.8980 | 2.0172 | 1.7506 | 1.7255 |
| 5 | Be | .06267 | .01381 | .01418 | .01411 | .01318 | .01193 |
| 6 | Cd | .04433 | .00070 | .00038 | .00044 | .00067 | .00051 |
| 7 | Ca | 358.07 | 372.23 | 405.92 | 475.55 | 367.84 | 373.20 |
| 8 | Cr | .30839 | .11735 | .11188 | .11179 | .10933 | .10048 |
| 9 | Co | .50094 | .06045 | .05753 | .05718 | .05872 | .05503 |
| 10 | Cu | .44380 | .17931 | .17328 | .17410 | .17096 | .15315 |
| 11 | Fe | 195.32 | 173.87 | 167.54 | 167.13 | 165.02 | 150.97 |
| 12 | Pb | .59044 | .13996 | .13713 | .13555 | .13638 | .12826 |
| 13 | Mg | 127.22 | 130.97 | 129.12 | 127.13 | 133.34 | 140.08 |
| 14 | Mn | 4.7562 | 4.1853 | 3.9462 | 3.8219 | 4.1263 | 3.8868 |
| 15 | Ni | .60950 | .16269 | .15861 | .15712 | .15450 | .13911 |
| 16 | K_ | 82.973 | 71.269 | 70.498 | 71.025 | 69.055 | 62.983 |
| 17 | Se | 1.8867 | .00539 | .00108 | .00401 | .00079 | .00609 |
| 18 | Ag | .04356 | -.00016 | -.00064 | -.00029 | -.00016 | -.00005 |
| 19 | Na | 7.5803 | 5.9246 | 7.8230 | 7.8109 | 7.9945 | 7.4807 |
| 20 | Tl | 1.8775 | .00104 | .00188 | .00013 | -.00142 | .00126 |
| 21 | V_ | .61174 | .18362 | .17525 | .17333 | .17676 | .16578 |
| 22 | Zn | 1.2364 | .67402 | .64318 | .64328 | .63436 | .57131 |
| 23 | Ti | 3.3656 | 2.4102 | 2.1225 | 2.1113 | 2.1939 | 2.0909 |
| 24 | B | .90735 | .12131 | .13611 | .13431 | .11984 | .09842 |
| 25 | Si | 12.330 | 24.294 | 12.300 | 11.261 | 11.384 | 10.485 |
| 26 | Sn | .49562 | .03058 | .03443 | .03324 | .03071 | .02882 |
| 27 | Mo | .76771 | .00485 | .00383 | .00417 | .00621 | .00451 |
| 28 | Sr | 1.3188 | .77120 | .83162 | .93039 | .77281 | .75522 |

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| # | Element | 040'8-22 | 040'-22D | 040'L 5X | CCV | CCB | 040'22MS |
|---|---|---|---|---|---|---|---|
| 1 | Al | 85.803 | 91.098 | 17.169 | 49.550 | .03798 | 134.09 |
| 2 | Sb | .00392 | .00071 | .00121 | .52503 | -.00117 | .22854 |
| 3 | As | .03396 | .03672 | .00896 | .50568 | .00213 | 1.9447 |
| 4 | Ba | 1.9243 | 1.8434 | .39963 | .48877 | .00035 | 3.8473 |
| 5 | Be | .00665 | .00709 | .00131 | .50547 | .00009 | .05547 |
| 6 | Cd | -.00268 | -.00305 | -.00082 | .48212 | -.00059 | .04216 |
| 7 | Ca | 115.31 | 121.88 | 23.150 | 49.626 | .08671 | 110.26 |
| 8 | Cr | .09871 | .10777 | .02051 | .47850 | .00003 | .30529 |
| 9 | Co | .06148 | .06589 | .01360 | .48800 | .00018 | .52079 |
| 10 | Cu | .07710 | .07838 | .01609 | .49485 | .00102 | .32357 |
| 11 | Fe | 132.79 | 146.79 | 25.518 | 19.935 | .06092 | 153.90 |
| 12 | Pb | .07011 | .07626 | .01425 | .47918 | .00017 | .53508 |
| 13 | Mg | 48.329 | 51.237 | 10.088 | 49.789 | .03587 | 57.371 |
| 14 | Mn | 2.8952 | 3.2698 | .61779 | .47923 | .00097 | 3.6603 |
| 15 | Ni | .13814 | .14942 | .02935 | .47482 | .00111 | .59819 |
| 16 | K_ | 12.202 | 13.591 | 2.5536 | 20.019 | .12818 | 18.700 |
| 17 | Se | .00113 | .00176 | .00184 | .51657 | .00281 | 1.9323 |
| 18 | Ag | -.00075 | -.00080 | .00018 | .48916 | .00053 | .04237 |
| 19 | Na | .88502 | .98080 | .24714 | 20.616 | .09690 | 1.0839 |
| 20 | Tl | -.00211 | .00275 | -.00252 | .50956 | -.00137 | 1.9145 |
| 21 | V_ | .20613 | .22644 | .04379 | .49548 | .00030 | .67820 |
| 22 | Zn | .22460 | .24664 | .04644 | .49874 | -.00336 | .72300 |
| 23 | Ti | .42146 | .52504 | .08875 | .47194 | .00056 | .82803 |
| 24 | B | .09867 | .11331 | .02148 | .99726 | .00328 | .83115 |
| 25 | Si | 9.9866 | 13.618 | 2.0548 | Q.28381 | .00407 | 12.773 |
| 26 | Sn | .02766 | .03400 | .00368 | .51058 | -.00310 | .49147 |
| 27 | Mo | -.00091 | .00060 | .00027 | .49986 | .00128 | .84761 |
| 28 | Sr | .49673 | .46284 | .10209 | .48288 | .00037 | .89474 |

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| # | Element | 040'2MSD | 040'8-23 | 040'8-24 | 040'2 2X | 040'3 2X | 040'5 2X |
|---|---|---|---|---|---|---|---|
| | | | | | 2 | 3 | 5 |
| 1 | Al | 132.29 | 101.59 | 94.316 | 104.85 | 106.00 | 97.748 |
| 2 | Sb | .22664 | .00492 | .00605 | .00475 | .00016 | .00270 |
| 3 | As | 1.9049 | .06536 | .06195 | .04532 | .04191 | .04518 |
| 4 | Ba | 3.7131 | 3.4170 | 1.8057 | 1.0796 | .97447 | 1.0530 |
| 5 | Be | .05486 | .00850 | .00777 | .00863 | .00852 | .00831 |
| 6 | Cd | .04136 | -.00301 | -.00319 | .00004 | -.00025 | -.00019 |
| 7 | Ca | 106.76 | 253.76 | 85.989 | 181.49 | 151.92 | 201.42 |
| 8 | Cr | .30247 | .13136 | .12422 | .07206 | .07339 | .06880 |
| 9 | Co | .51508 | .07796 | .06110 | .03691 | .03901 | .03681 |
| 10 | Cu | .32020 | .09741 | .07874 | .10962 | .11045 | .11712 |
| 11 | Fe | 148.77 | H201.66 | 172.44 | 102.74 | 104.04 | 98.463 |
| 12 | Pb | .52449 | .09326 | .08933 | .08532 | .08419 | .08432 |
| 13 | Mg | 56.046 | 87.215 | 35.597 | 66.242 | 60.689 | 67.266 |
| 14 | Mn | 3.3031 | 4.0207 | 3.2599 | 2.5157 | 2.7058 | 2.4960 |
| 15 | Ni | .58561 | .17501 | .12968 | .10104 | .12250 | .12243 |
| 16 | K_ | 18.565 | 15.672 | 13.060 | 43.252 | 41.320 | 41.477 |
| 17 | Se | 1.8878 | .00380 | .00661 | .00279 | .00403 | .00076 |
| 18 | Ag | .04202 | -.00043 | -.00050 | .00007 | .00043 | .00016 |
| 19 | Na | 1.0862 | 3.0359 | .61784 | 3.7068 | 3.0353 | 3.8782 |
| 20 | Tl | 1.8844 | .00066 | .00138 | -.00287 | -.00021 | .00087 |
| 21 | V_ | .67215 | .30387 | .26598 | .10993 | .10965 | .10567 |

| # | Element | 040'2MSD (018) | 040'8-23 (018) | 040'8-24 (018) | 040'2 2X (237) | 040'3 2X (237) | 040'5 2X (237) |
|---|---|---|---|---|---|---|---|
| | | | | | 2 | 3 | 5 |
| 22 | Zn | .70961 | .25664 | .27016 | .42055 | .43780 | .41276 |
| 23 | Ti | .85773 | .47033 | .48279 | 1.3702 | 1.4880 | 1.2323 |
| 24 | B | .84678 | .15145 | .07151 | .07678 | .07715 | .07319 |
| 25 | Si | 13.208 | 11.072 | 2.7235 | 10.149 | 12.964 | 7.0067 |
| 26 | Sn | .48624 | .02707 | .02800 | .01902 | .01880 | .01773 |
| 27 | Mo | .84453 | .00094 | .00044 | .00417 | .00315 | .00281 |
| 28 | Sr | .88082 | 1.1285 | .21846 | .45837 | .40549 | .46250 |

| # | Element | 040'7 2X (237) | 040'8 2X (237) | 040'9 2X (237) | CCV | CCB | 040'3 2X (018) |
|---|---|---|---|---|---|---|---|
| | | 7 | 8 | 9 | | | 23 |
| 1 | Al | 98.666 | 105.68 | 103.89 | 49.259 | .00531 | 50.871 |
| 2 | Sb | .00399 | .00416 | .00462 | .52271 | .00213 | .00241 |
| 3 | As | .04280 | .04575 | .04745 | .50527 | .00219 | .03192 |
| 4 | Ba | 1.0413 | 1.1468 | 1.1108 | .48760 | -.00002 | 1.7657 |
| 5 | Be | .00825 | .00871 | .00865 | .50287 | -.00002 | .00425 |
| 6 | Cd | .00017 | .00024 | .00004 | .47973 | -.00054 | -.00176 |
| 7 | Ca | 188.29 | 186.32 | 188.34 | 49.356 | .05277 | 125.24 |
| 8 | Cr | .06954 | .07372 | .07252 | .47590 | .00006 | .06732 |
| 9 | Co | .03515 | .03761 | .03857 | .48493 | -.00020 | .03962 |
| 10 | Cu | .10225 | .17419 | .11190 | .49290 | .00113 | .04917 |
| 11 | Fe | 98.291 | 104.22 | 103.93 | 19.762 | .04056 | 96.531 |
| 12 | Pb | .08193 | .08663 | .08707 | .48009 | -.00137 | .04755 |
| 13 | Mg | 67.089 | 65.568 | 67.332 | 49.498 | .01502 | 43.745 |
| 14 | Mn | 2.4350 | 2.5574 | 2.6506 | .47595 | .00036 | 2.0641 |
| 15 | Ni | .09657 | .18607 | .10400 | .47115 | .00057 | .09427 |
| 16 | K_ | 40.761 | 43.819 | 43.347 | 19.936 | .13132 | 7.8723 |
| 17 | Se | -.00036 | .00215 | .00472 | .51112 | .00345 | .00386 |
| 18 | Ag | .00011 | .00028 | -.00001 | .48674 | .00084 | -.00023 |
| 19 | Na | 3.1744 | 4.8889 | 3.2797 | 20.468 | .09564 | 1.5017 |
| 20 | Tl | .00196 | .00441 | -.00128 | .50654 | .00424 | -.00122 |
| 21 | V_ | .10485 | .11144 | .11089 | .49383 | -.00010 | .15548 |
| 22 | Zn | .41601 | .45143 | .43066 | .49595 | -.00392 | .13105 |
| 23 | Ti | 1.3488 | 1.3926 | 1.2839 | .46894 | .00052 | .24243 |
| 24 | B | .07739 | .07296 | .06941 | .99320 | .00252 | .07471 |
| 25 | Si | 9.0693 | 11.810 | 8.8979 | Q.28241 | .00355 | 5.9066 |
| 26 | Sn | .01963 | .02272 | .01609 | .50278 | -.00250 | .01288 |
| 27 | Mo | .00264 | .00349 | .00332 | .49764 | .00077 | -.00074 |
| 28 | Sr | .43873 | .48347 | .47250 | .48195 | .00021 | .57946 |

| # | Element | 040'-13A (237) | CRI | ICSA | ICSAB | CCV | CCB |
|---|---|---|---|---|---|---|---|
| | | 13A | | | | | |
| 1 | Al | 181.38 | .39773 | 491.89 | 476.94 | 49.654 | .03244 |
| 2 | Sb | 1.0510 | .12273 | .00214 | .60930 | .51972 | -.00287 |
| 3 | As | 1.1007 | .00924 | .00029 | .10086 | .51407 | .00169 |
| 4 | Ba | 1.8463 | .40823 | .00033 | .45744 | .49182 | -.00003 |
| 5 | Be | .99481 | .01037 | .00100 | .45988 | .51011 | .00005 |
| 6 | Cd | .90997 | .00958 | -.00056 | .86923 | .48682 | -.00069 |
| 7 | Ca | 331.86 | 9.6010 | 495.53 | 490.47 | 50.212 | .07424 |
| 8 | Cr | 1.0148 | .01923 | -.00003 | .42896 | .48169 | -.00050 |
| 9 | Co | .98819 | .10285 | .00366 | .44769 | .49246 | -.00009 |
| 10 | Cu | 1.1955 | .05197 | .00046 | .50021 | .49712 | .00122 |
| 11 | Fe | 181.23 | .19351 | 199.79 | 196.46 | 20.073 | .04054 |

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| # | Element | 040'-13A | CRI | ICSA | ICSAB | CCV | CCB |
|---|---|---|---|---|---|---|---|
| | | 13A | | | | | |
| 12 | Pb | 1.0778 | .00549 | -.00113 | .04585 | .48973 | -.00034 |
| 13 | Mg | 116.14 | 10.063 | 518.01 | 506.73 | 50.183 | .03838 |
| 14 | Mn | 5.0675 | .03070 | .00751 | .44140 | .48289 | .00033 |
| 15 | Ni | 1.0737 | .08010 | .00337 | .85322 | .47821 | .00080 |
| 16 | K_ | 74.460 | 9.1370 | .10562 | -.00774 | 20.037 | .11928 |
| 17 | Se | 1.0518 | .01437 | .00028 | .05180 | .51636 | .00198 |
| 18 | Ag | .00011 | .02029 | .00037 | .19633 | .49109 | .00015 |
| 19 | Na | 7.0870 | 9.1977 | .24704 | .15382 | 20.575 | .10147 |
| 20 | Tl | .99682 | .02422 | -.00737 | .08647 | .51632 | .00096 |
| 21 | V_ | 1.1248 | .10281 | .00441 | .45881 | .49878 | -.00038 |
| 22 | Zn | 1.6188 | .03914 | .00328 | .88846 | .50569 | -.00419 |
| 23 | Ti | 3.2989 | .01946 | -.01090 | .89839 | .47425 | .00026 |
| 24 | B | .13497 | .19826 | .00208 | .97321 | 1.0056 | .00350 |
| 25 | Si | 21.646 | .10959 | .01095 | .97448 | Q.27906 | .00028 |
| 26 | Sn | .03434 | .10486 | -.00495 | .99201 | .51066 | -.00104 |
| 27 | Mo | .96838 | .02216 | -.00074 | .95693 | .50480 | .00111 |
| 28 | Sr | .80600 | .02006 | .00554 | .91700 | .48629 | .00023 |

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| # | Element | IP0'-1MB | IP0'1LCS | IP0'LCSD | 040'36-2 | 040'36-3 | 040'36-4 |
|---|---|---|---|---|---|---|---|
| 1 | Al | -.01871 | 1.8875 | 1.8650 | 194.33 | 153.22 | 182.57 |
| 2 | Sb | .00129 | .50986 | .50841 | .00605 | .00449 | .00539 |
| 3 | As | .00101 | 2.0169 | 1.9992 | .08320 | .06776 | .07598 |
| 4 | Ba | -.00039 | 1.9329 | 1.9231 | 1.9526 | 1.6817 | 2.0602 |
| 5 | Be | -.00021 | .05008 | .05002 | .01638 | .01240 | .01496 |
| 6 | Cd | -.00063 | .04783 | .04789 | .00033 | -.00023 | -.00021 |
| 7 | Ca | .02361 | L.02895 | L.02566 | 252.83 | 422.52 | 353.66 |
| 8 | Cr | -.00053 | .19095 | .19141 | .13346 | .10010 | .11956 |
| 9 | Co | .00018 | .48584 | .48647 | .06719 | .05318 | .06072 |
| 10 | Cu | .00102 | .24598 | .24518 | .20611 | .14850 | .17939 |
| 11 | Fe | .01822 | .87387 | .87515 | H201.38 | 150.30 | 179.64 |
| 12 | Pb | -.00130 | .47619 | .47471 | .15498 | .12145 | .14292 |
| 13 | Mg | -.00824 | L-.01349 | L-.01672 | 108.33 | 136.36 | 125.29 |
| 14 | Mn | -.00022 | .47776 | .47862 | 4.5113 | 3.5210 | 4.1073 |
| 15 | Ni | .00063 | .47927 | .48033 | .18703 | .13451 | .16410 |
| 16 | K_ | .13988 | L.03625 | L.07549 | 80.843 | 61.446 | 73.197 |
| 17 | Se | .00409 | 2.0614 | 2.0238 | .00530 | .00060 | .00434 |
| 18 | Ag | .00040 | .04608 | .04571 | -.00007 | -.00029 | -.00023 |
| 19 | Na | .09585 | L.09722 | L.10019 | 8.1964 | 18.111 | 7.9435 |
| 20 | Tl | -.00021 | 1.9806 | 1.9690 | .00189 | -.00169 | .00126 |
| 21 | V_ | -.00031 | .48038 | .48073 | .18706 | .16077 | .17546 |
| 22 | Zn | -.00364 | .49790 | .49869 | .79185 | .55790 | .69154 |
| 23 | Ti | .00019 | .46670 | .46690 | 2.4767 | 2.3217 | 2.4247 |
| 24 | B | .00154 | .98417 | .97768 | .12218 | .14938 | .11557 |
| 25 | Si | -.00048 | L1.1232 | L1.1547 | 16.166 | 17.444 | 17.212 |
| 26 | Sn | -.00194 | .48844 | .48618 | .03449 | .03407 | .03722 |
| 27 | Mo | -.00015 | .96317 | .96718 | .00697 | .00383 | .00621 |
| 28 | Sr | .00002 | .47041 | .46865 | .80134 | .78576 | .81462 |

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| # | Element | 040'36-6 | 040'36-7 | 040'36-8 | 040'36-9 | CCV | CCB |
|---|---|---|---|---|---|---|---|
| 1 | Al | 177.22 | 174.78 | 175.11 | 166.69 | 50.079 | .02907 |
| 2 | Sb | .00644 | .00443 | .00707 | .00158 | .52944 | .00238 |
| 3 | As | .07313 | .07849 | .07496 | .07047 | .51406 | .00215 |
| 4 | Ba | 1.7844 | 1.7875 | 1.8620 | 1.6797 | .49502 | .00003 |
| 5 | Be | .01447 | .01433 | .01432 | .01369 | .50964 | -.00008 |
| 6 | Cd | .00038 | .00019 | .00030 | .00045 | .48705 | -.00055 |
| 7 | Ca | 395.26 | 359.48 | 356.06 | 409.72 | 50.133 | .08166 |
| 8 | Cr | .11509 | .11426 | .11961 | .10907 | .48175 | -.00040 |
| 9 | Co | .05895 | .05907 | .06180 | .05633 | .49198 | .00044 |
| 10 | Cu | .17467 | .17570 | .17957 | .16458 | .49986 | .00117 |
| 11 | Fe | 172.52 | 173.00 | 177.90 | 164.05 | 20.045 | .04663 |
| 12 | Pb | .13571 | .13846 | .14455 | .13111 | .48826 | -.00055 |
| 13 | Mg | 138.12 | 121.57 | 133.04 | 123.99 | 50.341 | .03650 |
| 14 | Mn | 3.9436 | 3.9663 | 4.2631 | 3.6815 | .48286 | .00056 |
| 15 | Ni | .15870 | .15996 | .16411 | .14945 | .47886 | .00079 |
| 16 | K_ | 71.932 | 70.855 | 71.808 | 66.725 | 20.215 | .12532 |
| 17 | Se | .00273 | .00142 | .00117 | .00543 | .51881 | -.00079 |
| 18 | Ag | .00006 | -.00063 | -.00018 | -.00018 | .49324 | .00052 |
| 19 | Na | 7.8580 | 9.1761 | 7.5359 | 7.9628 | 20.796 | .09834 |
| 20 | Tl | .00106 | -.00224 | .00041 | -.00215 | .51772 | .00198 |
| 21 | V_ | .16983 | .17107 | .17820 | .16496 | .49981 | -.00024 |
| 22 | Zn | .66692 | .66831 | .69586 | .63250 | .50328 | -.00424 |
| 23 | Ti | 2.2391 | 2.2463 | 2.4329 | 2.2269 | .47473 | .00060 |
| 24 | B | .10941 | .12139 | .13711 | .10819 | 1.0107 | .00314 |
| 25 | Si | 11.372 | 11.327 | 15.313 | 12.672 | Q.28572 | .00231 |
| 26 | Sn | .03773 | .03564 | .03697 | .03753 | .51229 | -.00193 |
| 27 | Mo | .00527 | .00442 | .00510 | .00417 | .50735 | .00077 |
| 28 | Sr | .81438 | .81414 | .72457 | .78753 | .48959 | .00027 |

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| # | Element | 040'6-10 | 040'6-11 | 040'6-12 | 040'-12D | 040'L 5X | 040'12MS |
|---|---|---|---|---|---|---|---|
| 1 | Al | 198.38 | 194.40 | 124.37 | 123.81 | 25.399 | 159.81 |
| 2 | Sb | .00781 | .00670 | .00392 | .00356 | .00049 | .17213 |
| 3 | As | .07664 | .07773 | .06953 | .05827 | .01318 | 1.9596 |
| 4 | Ba | 2.1773 | 2.1866 | 1.3619 | 1.3155 | .29293 | 3.1324 |
| 5 | Be | .01609 | .01597 | .00938 | .00914 | .00181 | .05634 |
| 6 | Cd | .00047 | .00024 | .00038 | -.00029 | -.00057 | .04253 |
| 7 | Ca | 299.43 | 300.48 | 479.05 | 457.42 | 94.303 | 476.77 |
| 8 | Cr | .13752 | .13497 | .08367 | .08290 | .01790 | .26168 |
| 9 | Co | .06674 | .06703 | .04896 | .04895 | .01056 | .48218 |
| 10 | Cu | .20455 | .20124 | .11140 | .11268 | .02392 | .35882 |
| 11 | Fe | H203.83 | H202.99 | 130.26 | 128.06 | 25.869 | 140.77 |
| 12 | Pb | .15787 | .15764 | .11772 | .12149 | .02436 | .56430 |
| 13 | Mg | 124.03 | 122.37 | 190.36 | 189.05 | 38.689 | 198.33 |
| 14 | Mn | 4.4587 | 4.5086 | 3.6639 | 3.6639 | .79921 | 4.2502 |
| 15 | Ni | .18713 | .18749 | .10330 | .10324 | .02464 | .52399 |
| 16 | K_ | 82.658 | 80.958 | 47.960 | 48.391 | 9.9463 | 52.838 |
| 17 | Se | .00234 | .00711 | -.00540 | .00026 | .00041 | 1.9372 |
| 18 | Ag | -.00025 | -.00007 | -.00027 | -.00077 | -.00004 | .04379 |
| 19 | Na | 20.007 | 18.728 | 22.830 | 23.201 | 4.3880 | 23.026 |
| 20 | Tl | .00152 | .00085 | -.00009 | -.00338 | .00036 | 1.8874 |
| 21 | V_ | .19268 | .19042 | .15514 | .15487 | .03336 | .59585 |

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| # | Element | 040'6-10 | 040'6-11 | 040'6-12 | 040'-12D | 040'L 5X | 040'12MS |
|---|---|---|---|---|---|---|---|
| 22 | Zn | .78868 | .79473 | .45314 | .43140 | .09609 | .92365 |
| 23 | Ti | 2.6169 | 2.4756 | 2.4632 | 2.4382 | .52491 | 3.7532 |
| 24 | B | .11574 | .10825 | .13290 | .12506 | .02778 | 1.0116 |
| 25 | Si | 16.442 | 10.968 | 9.1969 | 10.137 | 1.9596 | 18.049 |
| 26 | Sn | .03709 | .03780 | .05233 | .02934 | .00525 | .49094 |
| 27 | Mo | .00570 | .00476 | .00307 | .00256 | .00077 | .80535 |
| 28 | Sr | .94171 | .92520 | .66000 | .65769 | .14051 | 1.1138 |

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| # | Element | 040'2MSD | 040'52-4 | 040'52-5 | 040'52-6 | CCV | CCB |
|---|---|---|---|---|---|---|---|
| 1 | Al | 149.89 | 156.56 | 122.54 | 68.519 | 49.648 | .02419 |
| 2 | Sb | .16771 | .00399 | .00272 | .00433 | .52566 | .00079 |
| 3 | As | 1.9533 | .07474 | .04469 | .03548 | .50842 | .00144 |
| 4 | Ba | 3.1779 | .98097 | 1.0113 | 1.8122 | .48800 | .00010 |
| 5 | Be | .05498 | .00886 | .00874 | .00586 | .50929 | -.00007 |
| 6 | Cd | .04185 | .00066 | -.00045 | -.00132 | .48472 | -.00054 |
| 7 | Ca | H562.55 | H933.86 | 194.95 | 473.23 | 50.007 | .09298 |
| 8 | Cr | .25327 | .09365 | .04054 | .04093 | .48115 | -.00049 |
| 9 | Co | .47336 | .03675 | .01621 | .02672 | .49146 | .00039 |
| 10 | Cu | .34652 | .13486 | .04083 | .04524 | .49570 | .00114 |
| 11 | Fe | 132.40 | 61.661 | 53.364 | 105.94 | 19.997 | .04238 |
| 12 | Pb | .55724 | 1.0087 | .33941 | .26204 | .48523 | -.00045 |
| 13 | Mg | 247.70 | H512.88 | 201.01 | 66.884 | 50.301 | .04437 |
| 14 | Mn | 4.0226 | 2.4014 | 2.3601 | 4.9187 | .48189 | .00066 |
| 15 | Ni | .51479 | .07451 | .02139 | .03768 | .47604 | .00098 |
| 16 | K_ | 51.195 | 39.196 | 56.098 | 33.863 | 20.061 | .11525 |
| 17 | Se | 1.9529 | .00257 | .00144 | .00085 | .51429 | .00150 |
| 18 | Ag | .04365 | .00006 | .00000 | -.00085 | .49130 | .00045 |
| 19 | Na | 22.553 | 85.933 | 67.373 | 31.701 | 20.588 | .10526 |
| 20 | Tl | 1.8723 | .00056 | .00519 | .00222 | .51614 | .00291 |
| 21 | V_ | .57894 | .07762 | .07651 | .15082 | .49830 | .00002 |
| 22 | Zn | .87166 | .20605 | .19531 | .28419 | .50625 | -.00429 |
| 23 | Ti | 3.5032 | 1.6037 | 2.2830 | 3.5631 | .47063 | .00070 |
| 24 | B | .99093 | .44484 | .18479 | .09962 | 1.0015 | .00399 |
| 25 | Si | 17.800 | 10.187 | 6.6799 | 6.0000 | Q.28370 | .00348 |
| 26 | Sn | .48371 | .02999 | .02756 | .02637 | .51236 | -.00303 |
| 27 | Mo | .79127 | .01164 | .00349 | .00120 | .50684 | .00154 |
| 28 | Sr | 1.0993 | 3.4992 | 1.3658 | 1.0873 | .48280 | .00037 |

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| # | Element | 040'52-7 | 040'52-8 | 040'52-9 | 040'2-10 | 040'2-11 | 040'2-13 |
|---|---|---|---|---|---|---|---|
| 1 | Al | 156.65 | 123.34 | 62.305 | 198.76 | 44.804 | 71.154 |
| 2 | Sb | .00114 | .00189 | -.00106 | .00189 | .00022 | .00167 |
| 3 | As | .05707 | .03787 | .03472 | .06468 | .02631 | .02618 |
| 4 | Ba | 1.5992 | 1.1256 | 1.1157 | 1.0701 | .92070 | 1.9131 |
| 5 | Be | .01116 | .00905 | .00524 | .01259 | .00417 | .00781 |
| 6 | Cd | -.00077 | -.00062 | -.00140 | .00021 | -.00088 | -.00087 |
| 7 | Ca | 183.32 | 180.86 | 215.55 | H599.67 | 351.91 | 121.42 |
| 8 | Cr | .03532 | .03116 | .03685 | .09602 | .02517 | .03068 |
| 9 | Co | .01272 | .01122 | .02358 | .01880 | .01869 | .01422 |
| 10 | Cu | .03855 | .03347 | .03369 | .09108 | .02563 | .03120 |
| 11 | Fe | 60.302 | 51.033 | 87.811 | 73.330 | 66.280 | 64.817 |

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| # | Element | 040'52-7 | 040'52-8 | 040'52-9 | 040'2-10 | 040'2-11 | 040'2-13 |
|---|---|---|---|---|---|---|---|
| 12 | Pb | .23356 | .15919 | .14759 | .44131 | .16490 | .08416 |
| 13 | Mg | 197.61 | 157.73 | 78.752 | 434.59 | 47.270 | 67.956 |
| 14 | Mn | 2.6243 | 1.7288 | 3.0581 | 2.5656 | 3.3524 | 1.8811 |
| 15 | Ni | .01571 | .01659 | .02755 | .04110 | .02221 | .02507 |
| 16 | K_ | 67.768 | 66.065 | 27.371 | 44.783 | 26.023 | 23.214 |
| 17 | Se | .00031 | -.00289 | -.00219 | -.00011 | -.00167 | -.00125 |
| 18 | Ag | -.00157 | -.00029 | -.00074 | -.00043 | -.00139 | -.00031 |
| 19 | Na | H168.70 | 83.540 | 28.700 | 33.302 | 14.909 | 28.188 |
| 20 | Tl | .00279 | .00228 | -.00149 | .00202 | .00025 | .00280 |
| 21 | V_ | .06754 | .06320 | .12530 | .07075 | .10382 | .07940 |
| 22 | Zn | .23358 | .18735 | .23974 | .29331 | .20605 | .51200 |
| 23 | Ti | 2.5693 | 2.4974 | 3.1556 | 1.6783 | 2.4381 | 2.0846 |
| 24 | B | .26972 | .17096 | .09427 | .29747 | .05473 | .06323 |
| 25 | Si | 5.8624 | 5.1508 | 4.6275 | 6.1335 | 3.6925 | 7.6070 |
| 26 | Sn | .03507 | .03311 | .03216 | .03428 | .02121 | .02766 |
| 27 | Mo | .01325 | .00128 | .00239 | .00400 | .00536 | .00655 |
| 28 | Sr | 1.4838 | 1.1667 | .84586 | 3.1799 | .77935 | .71294 |

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| # | Element | 040'2-14 | 040'2 2X | 040'D 2X | 040' 10X | CCV | CCB |
|---|---|---|---|---|---|---|---|
| | | | 12 | 12D | 12L | | |
| 1 | Al | 55.745 | 63.042 | 61.833 | 12.692 | 49.298 | .02287 |
| 2 | Sb | .00227 | .00300 | .00253 | .00142 | .52069 | .00063 |
| 3 | As | .04057 | .03134 | .03156 | .00773 | .50357 | .00112 |
| 4 | Ba | 1.2106 | .70477 | .66991 | .14804 | .48558 | .00008 |
| 5 | Be | .00539 | .00469 | .00458 | .00080 | .50384 | -.00006 |
| 6 | Cd | -.00059 | -.00054 | -.00046 | -.00077 | .47831 | -.00051 |
| 7 | Ca | 417.08 | 236.82 | 227.05 | 46.938 | 49.319 | .09345 |
| 8 | Cr | .02581 | .04365 | .04331 | .00914 | .47657 | -.00023 |
| 9 | Co | .01767 | .02541 | .02551 | .00549 | .48671 | .00039 |
| 10 | Cu | .02927 | .05758 | .05743 | .01263 | .49313 | .00141 |
| 11 | Fe | 56.804 | 64.727 | 63.815 | 12.879 | 19.793 | .04095 |
| 12 | Pb | .09739 | .06153 | .06080 | .01162 | .47879 | -.00075 |
| 13 | Mg | 48.480 | 95.565 | 95.132 | 19.574 | 49.821 | .04598 |
| 14 | Mn | 1.9633 | 1.9088 | 1.9126 | .40958 | .47691 | .00058 |
| 15 | Ni | .02930 | .05712 | .05456 | .01349 | .47115 | .00086 |
| 16 | K_ | 27.214 | 24.562 | 24.296 | 4.9550 | 19.991 | .11352 |
| 17 | Se | -.00113 | -.00122 | -.00032 | -.00197 | .50782 | .00296 |
| 18 | Ag | -.00068 | -.00010 | .00000 | .00041 | .48769 | .00058 |
| 19 | Na | 17.953 | 11.356 | 11.278 | 2.1192 | 20.492 | .10002 |
| 20 | Tl | .00170 | -.00015 | .00115 | .00136 | .51210 | .00182 |
| 21 | V_ | .11796 | .08097 | .08029 | .01683 | .49397 | .00002 |
| 22 | Zn | .22535 | .23835 | .22734 | .04884 | .49985 | -.00470 |
| 23 | Ti | 1.8371 | 1.2781 | 1.2543 | .26793 | .46719 | .00066 |
| 24 | B | .04712 | .06670 | .06228 | .01478 | .98848 | .00339 |
| 25 | Si | 6.1033 | 5.4560 | 5.5390 | 1.1301 | Q.27807 | .00197 |
| 26 | Sn | .02703 | .01559 | .01357 | .00115 | .50882 | -.00150 |
| 27 | Mo | .00366 | .00171 | .00171 | .00001 | .50216 | .00145 |
| 28 | Sr | 1.1430 | .33983 | .33379 | .07056 | .48042 | .00037 |

| # | Element | 040'S 2X | 040'D 2X | 040'2 2X | 040'0 2X | 040'1 2X | 040'4 2X |
|---|---|---|---|---|---|---|---|
| | | 12MS | 12MSD | 2 | 10 | 11 | 4 |
| 1 | Al | 80.119 | 75.795 | 96.887 | 98.893 | 96.726 | 79.928 |
| 2 | Sb | .08718 | .08250 | .00107 | .00134 | .00135 | .00026 |
| 3 | As | .98809 | .97944 | .03893 | .04047 | .04080 | .03962 |
| 4 | Ba | 1.6137 | 1.6328 | 1.0050 | 1.1073 | 1.1067 | .51246 |
| 5 | Be | .02881 | .02828 | .00834 | .00822 | .00808 | .00463 |
| 6 | Cd | .02166 | .02167 | -.00010 | .00000 | .00010 | -.00033 |
| 7 | Ca | 236.33 | 278.54 | 126.32 | 151.10 | 148.16 | 433.96 |
| 8 | Cr | .13710 | .13384 | .06912 | .07200 | .07008 | .04935 |
| 9 | Co | .25111 | .24826 | .03483 | .03444 | .03433 | .01940 |
| 10 | Cu | .18020 | .17565 | .10298 | .10210 | .10030 | .06930 |
| 11 | Fe | 69.990 | 66.397 | 97.483 | 99.549 | 97.660 | 32.003 |
| 12 | Pb | .29053 | .28801 | .07911 | .08070 | .07937 | .53014 |
| 13 | Mg | 99.668 | 124.98 | 54.908 | 63.259 | 61.572 | 254.30 |
| 14 | Mn | 2.2168 | 2.1101 | 2.3333 | 2.3238 | 2.3183 | 1.2746 |
| 15 | Ni | .27590 | .27120 | .09753 | .09913 | .09671 | .04067 |
| 16 | K_ | 26.701 | 26.062 | 40.636 | 41.281 | 40.563 | 19.784 |
| 17 | Se | .97833 | .97764 | .00749 | .00596 | .00088 | -.00106 |
| 18 | Ag | .02182 | .02197 | .00000 | .00008 | .00021 | -.00022 |
| 19 | Na | 11.248 | 11.133 | 3.9116 | 9.6349 | 9.0322 | 43.002 |
| 20 | Tl | .96448 | .96071 | .00142 | .00204 | .00026 | .00216 |
| 21 | V_ | .30779 | .30051 | .09552 | .09950 | .09867 | .04050 |
| 22 | Zn | .48621 | .46432 | .41322 | .41925 | .41267 | .10978 |
| 23 | Ti | 1.9285 | 1.8094 | 1.2791 | 1.3550 | 1.3058 | .84262 |
| 24 | B | .50889 | .50004 | .06372 | .06078 | .05785 | .22791 |
| 25 | Si | 9.4004 | 9.9104 | 9.8563 | 9.8440 | 9.5043 | 6.7708 |
| 26 | Sn | .25078 | .25092 | .01839 | .01734 | .01866 | .01685 |
| 27 | Mo | .40910 | .40688 | .00332 | .00264 | .00247 | .00638 |
| 28 | Sr | .57202 | .56327 | .40884 | .47699 | .46534 | 1.8269 |

| # | Element | 040'0 2X | 040'-12A | CCV | CCB | CRI | ICSA |
|---|---|---|---|---|---|---|---|
| | | 10 | 12A | | | | |
| 1 | Al | 99.753 | 122.70 | 49.387 | .00463 | .37793 | 487.46 |
| 2 | Sb | .00125 | 1.0531 | .52620 | .00432 | .12063 | .00632 |
| 3 | As | .03270 | 1.0748 | .50986 | .00192 | .01133 | .00297 |
| 4 | Ba | .55030 | 1.3410 | .48547 | -.00004 | .40791 | .00041 |
| 5 | Be | .00646 | .99863 | .50854 | .00001 | .01041 | .00100 |
| 6 | Cd | -.00046 | .90621 | .48602 | -.00047 | .00951 | -.00081 |
| 7 | Ca | 294.26 | 472.37 | 50.063 | .08039 | 9.6752 | 502.90 |
| 8 | Cr | .05002 | .97821 | .48163 | -.00031 | .01915 | .00011 |
| 9 | Co | .00960 | .97587 | .49244 | .00018 | .10331 | .00420 |
| 10 | Cu | .04614 | 1.1032 | .49212 | .00141 | .05192 | .00084 |
| 11 | Fe | 37.435 | 128.81 | 19.968 | .03768 | .17696 | 201.29 |
| 12 | Pb | .22558 | 1.0590 | .48200 | -.00158 | .00624 | .00024 |
| 13 | Mg | 212.88 | 188.09 | 50.206 | .03498 | 10.195 | 523.40 |
| 14 | Mn | 1.3421 | 4.5024 | .48066 | .00044 | .03048 | .00759 |
| 15 | Ni | .02239 | .99371 | .47621 | .00077 | .07984 | .00414 |
| 16 | K_ | 22.473 | 47.345 | 19.904 | .16051 | 9.1745 | .17624 |
| 17 | Se | -.00087 | 1.0456 | .51382 | .00059 | .01000 | -.00082 |
| 18 | Ag | -.00010 | -.00026 | .49018 | .00078 | .01999 | .00032 |
| 19 | Na | 16.466 | 22.501 | 20.481 | .10803 | 9.2648 | .26211 |
| 20 | Tl | .00146 | 1.0148 | .51300 | .00111 | .02030 | -.00297 |
| 21 | V_ | .03679 | 1.0944 | .49713 | .00002 | .10295 | .00482 |

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| # | Element | 040'0 2X | 040'-12A | CCV | CCB | CRI | ICSA |
|---|---|---|---|---|---|---|---|
| | | 10 | 12A | | | | |
| 22 | Zn | .15399 | 1.3769 | .50811 | -.00447 | .04043 | .00365 |
| 23 | Ti | .86147 | 3.3814 | .46835 | .00069 | .01900 | -.01205 |
| 24 | B | .15007 | .13061 | .99688 | .00330 | .19791 | .00298 |
| 25 | Si | 4.6578 | 11.520 | Q.28061 | .00257 | .10483 | .00958 |
| 26 | Sn | .01343 | .03201 | .51508 | -.00237 | .10400 | -.00164 |
| 27 | Mo | .00247 | .97675 | .50565 | .00094 | .02132 | -.00176 |
| 28 | Sr | 1.6332 | .64965 | .48066 | .00032 | .02001 | .00556 |

| # | Element | ICSAB | CCV | CCB |
|---|---|---|---|---|
| 1 | Al | 471.05 | 49.279 | .02386 |
| 2 | Sb | .60470 | .52130 | .00302 |
| 3 | As | .09726 | .51215 | .00209 |
| 4 | Ba | .45050 | .48584 | -.00006 |
| 5 | Be | .45911 | .51068 | .00004 |
| 6 | Cd | .86522 | .48701 | -.00055 |
| 7 | Ca | 490.77 | 50.238 | .08877 |
| 8 | Cr | .42877 | .48322 | -.00013 |
| 9 | Co | .44602 | .49265 | .00072 |
| 10 | Cu | .49328 | .49205 | .00159 |
| 11 | Fe | 195.78 | 20.021 | .03765 |
| 12 | Pb | .04405 | .48635 | .00035 |
| 13 | Mg | 508.15 | 50.385 | .05410 |
| 14 | Mn | .44031 | .48224 | .00029 |
| 15 | Ni | .84749 | .47798 | .00077 |
| 16 | K_ | .05811 | 19.893 | .17801 |
| 17 | Se | .04463 | .51232 | .00132 |
| 18 | Ag | .19475 | .48973 | .00112 |
| 19 | Na | .17389 | 20.440 | .11023 |
| 20 | Tl | .08315 | .51755 | .00174 |
| 21 | V_ | .45798 | .49824 | -.00024 |
| 22 | Zn | .89544 | .51191 | -.00447 |
| 23 | Ti | .87619 | .46928 | .00065 |
| 24 | B | .96531 | .99899 | .00371 |
| 25 | Si | .96691 | Q.27803 | .00008 |
| 26 | Sn | .99022 | .51608 | -.00482 |
| 27 | Mo | .95608 | .50769 | .00196 |
| 28 | Sr | .90390 | .48137 | .00034 |

Method: 28EL Standard Name: BLANK Operator:
Run Time: 09/17/04 10:01:38
Comment:
Correction Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Avge | .8609569 | -.070496 | -.301485 | .2219889 | .0419979 | .4147292 | .0000000 |
| SDev | .1612123 | .070000 | .239697 | .0721213 | .0636364 | .0053030 | .0042424 |
| %RSD | 18.72477 | 99.29584 | 79.50554 | 32.48869 | 151.5229 | 1.278671 | .0000000 |
| #1 | .7469627 | -.020999 | -.470976 | .1709914 | -.003000 | .4109795 | -.003000 |
| #2 | .9749512 | -.119994 | -.131993 | .2729863 | .0869956 | .4184791 | .0029999 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Avge | .2684866 | .0494975 | .1477426 | -.029249 | .0344983 | .3157342 | -.029999 |
| SDev | .0021212 | .0021212 | .0180303 | .003182 | .0000000 | .0074243 | .025455 |
| %RSD | .7900692 | 4.285501 | 12.20387 | 10.87857 | .0000000 | 2.351424 | 84.85281 |
| #1 | .2669866 | .0479976 | .1349933 | -.031498 | .0344983 | .3104845 | -.047998 |
| #2 | .2699865 | .0509974 | .1604920 | -.026999 | .0344983 | .3209840 | -.011999 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Avge | 11.89441 | .0134993 | .0134993 | 3.551822 | -.105745 | .0224989 | .0029999 |
| SDev | .14424 | .0106061 | .0021212 | .016970 | .030758 | .0360606 | .0000000 |
| %RSD | 1.212694 | 78.56742 | 15.71349 | .4777736 | 29.08666 | 160.2775 | .0000000 |
| #1 | 11.79241 | .0059997 | .0119994 | 3.539823 | -.127494 | -.003000 | .0029999 |
| #2 | 11.99640 | .0209989 | .0149993 | 3.563822 | -.083996 | .0479976 | .0029999 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Avge | .0794960 | -.278986 | .0000000 | .0000000 | -.068997 | .0869956 | -.098995 |
| SDev | .0021212 | .184546 | .0000000 | .0000000 | .012727 | .0551516 | .072121 |
| %RSD | 2.668327 | 66.14870 | .0000000 | .0000000 | 18.44626 | 63.39578 | 72.85342 |
| #1 | .0779961 | -.409480 | .0000000 | .0000000 | -.077996 | .0479976 | -.149993 |
| #2 | .0809959 | -.148493 | .0000000 | .0000000 | -.059997 | .1259937 | -.047998 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Avge | .0554972 | .1364932 | .0104995 | .0134993 |
| SDev | .0148485 | .0106061 | .0021212 | .0021212 |
| %RSD | 26.75539 | 7.770407 | 20.20305 | 15.71349 |
| #1 | .0449978 | .1439928 | .0089996 | .0119994 |
| #2 | .0659967 | .1289935 | .0119994 | .0149993 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| IntStd | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Mode | Time | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | -- | -- | -- | -- | -- | -- | -- |
| Wavlen | -- | -- | -- | -- | -- | -- | -- |
| Avge | 333 | -- | -- | -- | -- | -- | -- |
| SDev | .0000000 | -- | -- | -- | -- | -- | -- |
| %RSD | .0000000 | -- | -- | -- | -- | -- | -- |
| #1 | 333 | -- | -- | -- | -- | -- | -- |
| #2 | 333 | -- | -- | -- | -- | -- | -- |

Method: 28EL Standard Name: RLSTD Operator:
Run Time: 09/17/04 10:03:05
Comment:
Correction Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Avge | .8699565 | .3179841 | -.185991 | .6704664 | .0974951 | 1.195440 | .2009900 |
| SDev | .2800003 | .2078790 | .038182 | .0615152 | .0530304 | .008485 | .0063637 |
| %RSD | 32.18555 | 65.37402 | 20.52890 | 9.174989 | 54.39283 | .7097666 | 3.166152 |
| #1 | 1.067947 | .1709914 | -.212989 | .6269686 | .1349933 | 1.201440 | .2054897 |
| #2 | .6719664 | .4649767 | -.158992 | .7139643 | .0599970 | 1.189440 | .1964902 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Avge | .3854807 | 4.429278 | .3937303 | .0344983 | .2002400 | .4304785 | .2429878 |
| SDev | .0021212 | .019091 | .0243940 | .0084849 | .0456061 | .0127273 | .0042424 |
| %RSD | .5502817 | .4310146 | 6.195602 | 24.59502 | 22.77572 | 2.956541 | 1.745942 |
| #1 | .3869806 | 4.442778 | .4109795 | .0404980 | .2324884 | .4394780 | .2459877 |
| #2 | .3839808 | 4.415779 | .3764812 | .0284986 | .1679916 | .4214789 | .2399880 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Avge | 14.22379 | 4.621269 | .2257387 | 35.95470 | .2707365 | .1949903 | .0269986 |
| SDev | .00212 | .019091 | .0031818 | .06151 | .0456061 | .0254546 | .0000000 |
| %RSD | .0149104 | .4131081 | 1.409516 | .1710880 | 16.84520 | 13.05428 | .0000000 |
| #1 | 14.22229 | 4.607769 | .2279886 | 35.99820 | .3029848 | .1769912 | .0269986 |
| #2 | 14.22529 | 4.634768 | .2234888 | 35.91121 | .2384881 | .2129893 | .0269986 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| Elem | Zn | As | Tl | Ti | B | Si | Sn |
|---|---|---|---|---|---|---|---|
| Avge | .1889905 | -.035998 | -.050997 | 2.999850 | 12.41638 | 1.267437 | 1.249438 |
| SDev | .0042424 | .142121 | .008485 | .131515 | .03818 | .014849 | .002121 |
| %RSD | 2.244783 | 394.8012 | 16.63781 | 4.384059 | .3075105 | 1.171538 | .1697765 |
| #1 | .1859907 | .0644968 | -.044998 | 3.092845 | 12.44338 | 1.277936 | 1.250938 |
| #2 | .1919904 | -.136493 | -.056997 | 2.906855 | 12.38938 | 1.256937 | 1.247938 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| Elem | Mo | Sr |
|---|---|---|
| Avge | .1004950 | 3.683816 |
| SDev | .0063637 | .025455 |

| | | |
|---|---|---|
| %RSD | 6.332304 | .6909866 |
| #1 | .1049947 | 3.701815 |
| #2 | .0959952 | 3.665817 |
| Factor | 1.000000 | 1.000000 |

| IntStd | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Mode | Time | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem | -- | -- | -- | -- | -- | -- | -- |
| Wavlen | -- | -- | -- | -- | -- | -- | -- |
| Avge | 333 | -- | -- | -- | -- | -- | -- |
| SDev | .0000000 | -- | -- | -- | -- | -- | -- |
| %RSD | .0000000 | -- | -- | -- | -- | -- | -- |
| #1 | 333 | -- | -- | -- | -- | -- | -- |
| #2 | 333 | -- | -- | -- | -- | -- | -- |

---

Method: 28EL Standard Name: A 1/100 Operator:
Run Time: 09/17/04 10:04:29
Comment:
Correction Factor: 1

| Elem | Al | Ca | Fe | K_ | Mg | Na |
|---|---|---|---|---|---|---|
| Avge | 38.04335 | 41.28244 | 5.287236 | 16.64767 | 44.16529 | 71.91840 |
| SDev | .05833 | .15061 | .014849 | .12091 | .01485 | .08061 |
| %RSD | .1533355 | .3648199 | .2808368 | .7262851 | .0336157 | .1120840 |
| #1 | 38.08460 | 41.38893 | 5.297735 | 16.73316 | 44.15479 | 71.97540 |
| #2 | 38.00210 | 41.17594 | 5.276736 | 16.56217 | 44.17579 | 71.86140 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| IntStd | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Mode | Time | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem | -- | -- | -- | -- | -- | -- | -- |
| Wavlen | -- | -- | -- | -- | -- | -- | -- |
| Avge | 333 | -- | -- | -- | -- | -- | -- |
| SDev | .0000000 | -- | -- | -- | -- | -- | -- |
| %RSD | .0000000 | -- | -- | -- | -- | -- | -- |
| #1 | 333 | -- | -- | -- | -- | -- | -- |
| #2 | 333 | -- | -- | -- | -- | -- | -- |

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Method: 28EL Standard Name: A 1/10 Operator:
Run Time: 09/17/04 10:05:50
Comment:
Correction Factor: 1

| Elem | Al | Ca | Fe | K_ | Mg | Na |
|---|---|---|---|---|---|---|
| Avge | 380.1305 | 397.7441 | 51.33193 | 73.99580 | 443.9553 | 818.6350 |
| SDev | .9418 | 1.9685 | .17182 | .26091 | 1.0924 | 5.6849 |
| %RSD | .2477632 | .4949153 | .3347212 | .3525991 | .2460664 | .6944320 |
| #1 | 380.7964 | 396.3522 | 51.21044 | 74.18029 | 443.1828 | 822.6549 |
| #2 | 379.4645 | 399.1361 | 51.45343 | 73.81131 | 444.7278 | 814.6152 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | |
| IntStd | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Mode | Time | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem | -- | -- | -- | -- | -- | -- | -- |
| Wavlen | -- | -- | -- | -- | -- | -- | -- |
| Avge | 333 | -- | -- | -- | -- | -- | -- |
| SDev | .0000000 | -- | -- | -- | -- | -- | -- |
| %RSD | .0000000 | -- | -- | -- | -- | -- | -- |
| #1 | 333 | -- | -- | -- | -- | -- | -- |
| #2 | 333 | -- | -- | -- | -- | -- | -- |

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Method: 28EL Standard Name: A 1/2 Operator:
Run Time: 09/17/04 10:07:10
Comment:
Correction Factor: 1

| | | | | | | |
|---|---|---|---|---|---|---|
| Elem | Al | Ca | Fe | K_ | Mg | Na |
| Avge | 1809.705 | 1750.429 | 231.6364 | 351.9439 | 2166.213 | 3928.544 |
| SDev | 1.130 | 1.746 | .3351 | .4645 | .602 | 5.294 |
| %RSD | .0624157 | .0997331 | .1446864 | .1319913 | .0278131 | .1347700 |
| #1 | 1810.504 | 1749.195 | 231.3994 | 352.2724 | 2165.787 | 3932.287 |
| #2 | 1808.907 | 1751.663 | 231.8734 | 351.6154 | 2166.639 | 3924.800 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| IntStd | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Mode | Time | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem | -- | -- | -- | -- | -- | -- | -- |
| Wavlen | -- | -- | -- | -- | -- | -- | -- |
| Avge | 333 | -- | -- | -- | -- | -- | -- |
| SDev | .0000000 | -- | -- | -- | -- | -- | -- |
| %RSD | .0000000 | -- | -- | -- | -- | -- | -- |
| #1 | 333 | -- | -- | -- | -- | -- | -- |
| #2 | 333 | -- | -- | -- | -- | -- | -- |

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Method: 28EL Standard Name: MIXAHIGH Operator:
Run Time: 09/17/04 10:08:32
Comment:
Correction Factor: 1

| | | | | | | |
|---|---|---|---|---|---|---|
| Elem | Al | Ca | Fe | K_ | Mg | Na |
| Avge | 3392.738 | 3105.770 | 430.3195 | 671.6844 | 4162.305 | 7072.257 |
| SDev | 7.192 | 5.441 | .8188 | 1.0437 | 12.051 | 18.603 |
| %RSD | .2119796 | .1751865 | .1902724 | .1553789 | .2895153 | .2630417 |
| #1 | 3387.653 | 3101.923 | 429.7405 | 670.9464 | 4153.784 | 7059.103 |
| #2 | 3397.823 | 3109.617 | 430.8984 | 672.4224 | 4170.826 | 7085.412 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| IntStd | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Mode | Time | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | -- | -- | -- | -- | -- | -- | -- |
| Wavlen | -- | -- | -- | -- | -- | -- | -- |
| Avge | 333 | -- | -- | -- | -- | -- | -- |
| SDev | .0000000 | -- | -- | -- | -- | -- | -- |
| %RSD | .0000000 | -- | -- | -- | -- | -- | -- |
| #1 | 333 | -- | -- | -- | -- | -- | -- |
| #2 | 333 | -- | -- | -- | -- | -- | -- |

Method: 28EL Standard Name: B 1/100 Operator:
Run Time: 09/17/04 10:10:07
Comment:
Correction Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Ba | Be |
|---|---|---|---|---|---|---|---|
| Avge | 6.484176 | 6.992650 | 1.427929 | 4.045298 | 2.630868 | 9.323534 | 11.58692 |
| SDev | .057273 | .067879 | .110303 | .103940 | .042424 | .033939 | .00212 |
| %RSD | .8832659 | .9707195 | 7.724699 | 2.569391 | 1.612560 | .3640180 | .0183037 |
| #1 | 6.524673 | 7.040648 | 1.349932 | 3.971801 | 2.660867 | 9.299535 | 11.58542 |
| #2 | 6.443678 | 6.944653 | 1.505925 | 4.118794 | 2.600870 | 9.347532 | 11.58842 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| Elem | Cd | Co | Cr | Cu | Mn | Ni | Sb |
|---|---|---|---|---|---|---|---|
| Avge | 16.43918 | 2.878356 | 8.242088 | 5.944953 | 10.43048 | 7.096895 | .7994600 |
| SDev | .00636 | .002121 | .023333 | .035000 | .00848 | .083788 | .1633335 |
| %RSD | .0387155 | .0736937 | .2830978 | .5887363 | .0813449 | 1.180628 | 20.43048 |
| #1 | 16.44368 | 2.876856 | 8.258587 | 5.920204 | 10.43648 | 7.156142 | .9149542 |
| #2 | 16.43468 | 2.879856 | 8.225589 | 5.969701 | 10.42448 | 7.037648 | .6839658 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| Elem | V_ | Zn | As | Tl |
|---|---|---|---|---|
| Avge | 1.102445 | 1.730913 | 5.211490 | .8699565 |
| SDev | .002121 | .004242 | .062576 | .0212122 |
| %RSD | .1924133 | .2450970 | 1.200730 | 2.438302 |
| #1 | 1.103945 | 1.727914 | 5.167242 | .8849558 |
| #2 | 1.100945 | 1.733913 | 5.255737 | .8549572 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| IntStd | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Mode | Time | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem | -- | -- | -- | -- | -- | -- | -- |
| Wavlen | -- | -- | -- | -- | -- | -- | -- |
| Avge | 333 | -- | -- | -- | -- | -- | -- |
| SDev | .0000000 | -- | -- | -- | -- | -- | -- |
| %RSD | .0000000 | -- | -- | -- | -- | -- | -- |
| #1 | 333 | -- | -- | -- | -- | -- | -- |
| #2 | 333 | -- | -- | -- | -- | -- | -- |

Method: 28EL Standard Name: B 1/10 Operator:
Run Time: 09/17/04 10:11:31
Comment:
Correction Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Ba | Be |
|---|---|---|---|---|---|---|---|
| Avge | 60.07349 | 67.34963 | 18.28859 | 36.78866 | 25.99970 | 91.47893 | 112.2139 |
| SDev | .09970 | .42000 | .07424 | .03182 | .01273 | .16758 | .7785 |
| %RSD | .1659609 | .6236131 | .4059537 | .0864827 | .0489532 | .1831882 | .6937513 |
| #1 | 60.00300 | 67.64661 | 18.34108 | 36.81116 | 26.00870 | 91.36043 | 112.7644 |
| #2 | 60.14399 | 67.05264 | 18.23609 | 36.76616 | 25.99070 | 91.59742 | 111.6634 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| Elem | Cd | Co | Cr | Cu | Mn | Ni | Sb |
|---|---|---|---|---|---|---|---|
| Avge | 161.3807 | 29.00480 | 80.98019 | 56.30193 | 102.5514 | 70.43573 | 6.841158 |
| SDev | 1.2483 | .18349 | .35955 | .32349 | .4624 | .53136 | .180303 |
| %RSD | .7735340 | .6326026 | .4439938 | .5745549 | .4509211 | .7543906 | 2.635566 |
| #1 | 162.2634 | 29.13454 | 81.23444 | 56.07320 | 102.8784 | 70.81145 | 6.968651 |
| #2 | 160.4980 | 28.87505 | 80.72596 | 56.53067 | 102.2244 | 70.06000 | 6.713664 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| Elem | V_ | Zn | As | Tl |
|---|---|---|---|---|
| Avge | 10.92545 | 16.26369 | 53.59457 | 9.509524 |
| SDev | .03818 | .19303 | .23652 | .000000 |
| %RSD | .3494745 | 1.186876 | .4413059 | .0000000 |
| #1 | 10.95245 | 16.40018 | 53.76181 | 9.509524 |
| #2 | 10.89846 | 16.12719 | 53.42733 | 9.509524 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| IntStd | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Mode | Time | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem | -- | -- | -- | -- | -- | -- | -- |
| Wavlen | -- | -- | -- | -- | -- | -- | -- |
| Avge | 333 | -- | -- | -- | -- | -- | -- |
| SDev | .0000000 | -- | -- | -- | -- | -- | -- |
| %RSD | .0000000 | -- | -- | -- | -- | -- | -- |
| #1 | 333 | -- | -- | -- | -- | -- | -- |
| #2 | 333 | -- | -- | -- | -- | -- | -- |

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Method: 28EL Standard Name: MIXBHIGH Operator:
Run Time: 09/17/04 10:13:05
Comment:
Correction Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Ba | Be |
|---|---|---|---|---|---|---|---|
| Avge | 590.7935 | 666.6792 | 186.2967 | 363.5908 | 246.1242 | 860.4162 | 1029.745 |
| SDev | .6109 | 1.6143 | .1230 | 2.3673 | .6045 | .2768 | 3.205 |
| %RSD | .1034045 | .2421333 | .0660418 | .6510835 | .2456243 | .0321726 | .3112531 |
| #1 | 590.3614 | 665.5377 | 186.3837 | 361.9169 | 246.5517 | 860.6119 | 1027.479 |
| #2 | 591.2254 | 667.8206 | 186.2097 | 365.2647 | 245.6967 | 860.2205 | 1032.011 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |
| Elem | Cd | Co | Cr | Cu | Mn | Ni | Sb |
| Avge | 1544.638 | 287.0099 | 796.8734 | 562.6294 | 972.4501 | 694.1945 | 68.00360 |
| SDev | 4.081 | .5398 | 1.3459 | .4306 | 1.5453 | 1.1783 | .11455 |
| %RSD | .2642191 | .1880933 | .1688968 | .0765319 | .1589064 | .1697377 | .1684436 |
| #1 | 1541.752 | 286.6282 | 795.9217 | 562.9338 | 971.3574 | 693.3613 | 67.92260 |
| #2 | 1547.524 | 287.3916 | 797.8251 | 562.3249 | 973.5428 | 695.0277 | 68.08459 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| | | | | |
|---|---|---|---|---|
| Elem | V_ | Zn | As | Tl |
| Avge | 108.0066 | 155.8452 | 529.9647 | 95.50022 |
| SDev | .1527 | .4285 | .6883 | .08485 |
| %RSD | .1414050 | .2749440 | .1298828 | .0888473 |
| #1 | 107.8986 | 155.5422 | 529.4780 | 95.56022 |
| #2 | 108.1146 | 156.1482 | 530.4515 | 95.44022 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| IntStd | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Mode | Time | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem | -- | -- | -- | -- | -- | -- | -- |
| Wavlen | -- | -- | -- | -- | -- | -- | -- |
| Avge | 333 | -- | -- | -- | -- | -- | -- |
| SDev | .0000000 | -- | -- | -- | -- | -- | -- |
| %RSD | .0000000 | -- | -- | -- | -- | -- | -- |
| #1 | 333 | -- | -- | -- | -- | -- | -- |
| #2 | 333 | -- | -- | -- | -- | -- | -- |

Method: 28EL Standard Name: C 1/100 Operator:
Run Time: 09/17/04 10:14:44
Comment:
Correction Factor: 1

| | | | | | | |
|---|---|---|---|---|---|---|
| Elem | Ti | B | Si | Sn | Mo | Sr |
| Avge | 28.83606 | 12.38638 | 11.73091 | 2.396880 | .8939553 | 34.87775 |
| SDev | .05303 | .03818 | .07000 | .008485 | .0084848 | .19303 |
| %RSD | .1839047 | .3082553 | .5967156 | .3539950 | .9491342 | .5534508 |
| #1 | 28.87356 | 12.35938 | 11.78041 | 2.390880 | .8999550 | 35.01425 |
| #2 | 28.79856 | 12.41338 | 11.68142 | 2.402880 | .8879556 | 34.74126 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| IntStd | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Mode | Time | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem | -- | -- | -- | -- | -- | -- | -- |
| Wavlen | -- | -- | -- | -- | -- | -- | -- |
| Avge | 333 | -- | -- | -- | -- | -- | -- |
| SDev | .0000000 | -- | -- | -- | -- | -- | -- |
| %RSD | .0000000 | -- | -- | -- | -- | -- | -- |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | 333 | -- | -- | -- | -- | -- | -- |
| #2 | 333 | -- | -- | -- | -- | -- | -- |

Method: 28EL Standard Name: C 1/10 Operator:
Run Time: 09/17/04 10:16:10
Comment:
Correction Factor: 1

| Elem | Ti | B | Si | Sn | Mo | Sr |
|---|---|---|---|---|---|---|
| Avge | 282.8514 | 122.6774 | 114.5523 | 22.57237 | 8.816559 | 337.9706 |
| SDev | 1.3470 | .5282 | .4285 | .15061 | .072122 | 2.6706 |
| %RSD | .4762123 | .4305464 | .3740538 | .6672163 | .8180253 | .7901925 |
| #1 | 281.8989 | 122.3039 | 114.2493 | 22.67886 | 8.765561 | 336.0822 |
| #2 | 283.8038 | 123.0508 | 114.8553 | 22.46588 | 8.867557 | 339.8590 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| IntStd | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Mode | Time | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem | -- | -- | -- | -- | -- | -- | -- |
| Wavlen | -- | -- | -- | -- | -- | -- | -- |
| Avge | 333 | -- | -- | -- | -- | -- | -- |
| SDev | .0000000 | -- | -- | -- | -- | -- | -- |
| %RSD | .0000000 | -- | -- | -- | -- | -- | -- |
| #1 | 333 | -- | -- | -- | -- | -- | -- |
| #2 | 333 | -- | -- | -- | -- | -- | -- |

Method: 28EL Standard Name: MIXCHIGH Operator:
Run Time: 09/17/04 10:17:32
Comment:
Correction Factor: 1

| Elem | Ti | B | Si | Sn | Mo | Sr |
|---|---|---|---|---|---|---|
| Avge | 2764.242 | 1205.922 | 1078.239 | 219.7195 | 85.30673 | 2940.992 |
| SDev | .093 | .721 | .742 | .1888 | .25455 | 3.133 |
| %RSD | .0033724 | .0598029 | .0688540 | .0859212 | .2983916 | .1065271 |
| #1 | 2764.308 | 1206.432 | 1077.714 | 219.5860 | 85.12674 | 2943.207 |
| #2 | 2764.176 | 1205.412 | 1078.764 | 219.8530 | 85.48673 | 2938.776 |
| Factor | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 | 1.000000 |

| IntStd | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Mode | Time | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED | NOTUSED |
| Elem | -- | -- | -- | -- | -- | -- | -- |
| Wavlen | -- | -- | -- | -- | -- | -- | -- |
| Avge | 333 | -- | -- | -- | -- | -- | -- |
| SDev | .0000000 | -- | -- | -- | -- | -- | -- |
| %RSD | .0000000 | -- | -- | -- | -- | -- | -- |
| #1 | 333 | -- | -- | -- | -- | -- | -- |
| #2 | 333 | -- | -- | -- | -- | -- | -- |

Method: 28EL
Mode: Concentration
Standards Table: 6010I
Data File: 6010CAL

| Element | Wavelength | Date-of-Fit | Type-of-Fit | Correlation |
|---|---|---|---|---|
| 2203/1 | 220.351 | 09/17/04 10:19 | Full Fit | 1.000000 |
| 2203/2 | 220.352/2 | 09/17/04 10:19 | Full Fit | 1.000000 |
| 1960/1 | 196.021 | 09/17/04 10:19 | Full Fit | 1.000000 |
| 1960/2 | 196.022/2 | 09/17/04 10:19 | Full Fit | 1.000000 |
| Ag | 328.068 | 09/17/04 10:19 | Full Fit | 1.000000 |
| Al | 308.215 | 09/17/04 10:19 | Full Fit | 1.000000 |
| Ba | 493.409 | 09/17/04 10:19 | Full Fit | 1.000000 |
| Be | 313.042 | 09/17/04 10:19 | Full Fit | 1.000000 |
| Ca | 317.933 | 09/17/04 10:19 | Full Fit | 1.000000 |
| Cd | 226.502/2 | 09/17/04 10:19 | Full Fit | 1.000000 |
| Co | 228.616 | 09/17/04 10:19 | Full Fit | 1.000000 |
| Cr | 267.716 | 09/17/04 10:19 | Full Fit | 1.000000 |
| Cu | 324.753 | 09/17/04 10:19 | Full Fit | 1.000000 |
| Fe | 271.441 | 09/17/04 10:19 | Full Fit | 1.000000 |
| K_ | 766.491 | 09/17/04 10:19 | Full Fit | 1.000000 |
| Mg | 279.078 | 09/17/04 10:19 | Full Fit | 1.000000 |
| Mn | 257.610 | 09/17/04 10:19 | Full Fit | 1.000000 |
| Na | 588.991 | 09/17/04 10:19 | Full Fit | .999999 |
| Ni | 231.604/2 | 09/17/04 10:19 | Full Fit | 1.000000 |
| Sb | 206.838/2 | 09/17/04 10:19 | Full Fit | .999998 |
| V_ | 292.402 | 09/17/04 10:19 | Full Fit | 1.000000 |
| Zn | 206.200 | 09/17/04 10:20 | Full Fit | 1.000000 |
| As | 189.042/2 | 09/17/04 10:20 | Full Fit | 1.000000 |
| Pb | 220.353 | 01/06/95 08:57 | User Fit | 1.000000 |
| Se | 196.026 | 01/06/95 08:57 | User Fit | 1.000000 |
| Tl | 190.864/2 | 09/17/04 10:20 | Full Fit | 1.000000 |
| Ti | 334.941 | 09/17/04 10:20 | Full Fit | 1.000000 |
| B | 249.678/2 | 09/17/04 10:20 | Full Fit | 1.000000 |
| Si | 251.612 | 09/17/04 10:20 | Full Fit | 1.000000 |
| Sn | 189.989 | 09/17/04 10:20 | Full Fit | 1.000000 |
| Mo | 202.003/2 | 09/17/04 10:20 | Full Fit | 1.000000 |
| Sr | 421.525 | 09/17/04 10:20 | Full Fit | 1.000000 |

Method: 28EL Sample Name: MIXCHIGH Operator: SW
Run Time: 09/17/04 10:20:28
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .04891 | .06269 | -.00193 | .00596 | .03730 | -.74019 | .00045 |
| SDev | .00022 | .00069 | .00180 | .00414 | .00034 | .00124 | .00003 |
| %RSD | .45826 | 1.1000 | 93.066 | 69.482 | .90834 | .16749 | 7.6104 |
| #1 | .04875 | .06220 | -.00320 | .00888 | .03706 | -.74106 | .00048 |
| #2 | .04907 | .06317 | -.00066 | .00303 | .03754 | -.73931 | .00043 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value | | | | | | | |
| Range | | | | | | | |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00549 | .11517 | -.00058 | .00394 | .05049 | .00118 | -1.9876 |
| SDev | .00000 | .00090 | .00009 | .00002 | .00025 | .00034 | .0131 |
| %RSD | .00057 | .78394 | 15.521 | .37024 | .49245 | 29.028 | .65659 |
| #1 | .00549 | .11454 | -.00065 | .00395 | .05032 | .00093 | -1.9968 |
| #2 | .00549 | .11581 | -.00052 | .00393 | .05067 | .00142 | -1.9784 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value | | | | | | | |
| Range | | | | | | | |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .14869 | .39925 | .00738 | .12479 | .00375 | .01606 | -.00468 |
| SDev | .00703 | .00593 | .00000 | .00020 | .00007 | .00350 | .00006 |
| %RSD | 4.7260 | 1.4861 | .00000 | .15801 | 1.9154 | 21.789 | 1.2571 |
| #1 | .14372 | .39506 | .00738 | .12465 | .00370 | .01853 | -.00472 |
| #2 | .15366 | .40345 | .00738 | .12493 | .00380 | .01358 | -.00464 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value | | | | | | | |
| Range | | | | | | | |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .01567 | .00336 | .05810 | .00333 | -.02454 | 9.9509 | 9.9512 |
| SDev | .00065 | .00065 | .00053 | .00216 | .00039 | .0284 | .0087 |
| %RSD | 4.1706 | 19.409 | .92010 | 64.928 | 1.5705 | .28497 | .08755 |
| #1 | .01521 | .00382 | .05772 | .00486 | -.02427 | 9.9309 | 9.9450 |
| #2 | .01613 | .00290 | .05848 | .00180 | -.02481 | 9.9710 | 9.9573 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass | QC Pass |
| Value | | | | | | 10.000 | 10.000 |
| Range | | | | | | 5.0000 | 5.0000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 49.907 | 10.060 | 10.025 | 9.8415 |
| SDev | .073 | .042 | .049 | .0116 |
| %RSD | .14711 | .41955 | .48898 | .11801 |
| #1 | 49.855 | 10.030 | 9.9905 | 9.8333 |
| #2 | 49.959 | 10.090 | 10.060 | 9.8497 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | 50.000 | 10.000 | 10.000 | 10.000 |
| Range | 5.0000 | 5.0000 | 5.0000 | 5.0000 |

---

Method: 28EL Sample Name: MIXBHIGH Operator: SW
Run Time: 09/17/04 10:23:01
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | 10.004 | 9.9942 | 9.9792 | 9.9922 | 1.9813 | .04360 | 9.9308 |
| SDev | .056 | .0023 | .0420 | .0277 | .0319 | .00043 | .0314 |
| %RSD | .55890 | .02313 | .42109 | .27673 | 1.6094 | .98892 | .31581 |
| #1 | 9.9641 | 9.9958 | 9.9495 | 9.9727 | 1.9587 | .04390 | 9.9087 |
| #2 | 10.043 | 9.9925 | 10.009 | 10.012 | 2.0038 | .04329 | 9.9530 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass | NOCHECK | QC Pass |
| Value | | | | | 2.0000 | | 10.000 |
| Range | | | | | 5.0000 | | 5.0000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 10.094 | .02697 | 10.003 | 10.038 | 9.9952 | 9.9909 | -.07028 |
| SDev | .008 | .00000 | .006 | .000 | .0010 | .0423 | .01028 |
| %RSD | .08234 | .00000 | .05648 | .00062 | .01003 | .42324 | 14.624 |
| #1 | 10.099 | .02697 | 10.007 | 10.038 | 9.9959 | 9.9610 | -.06301 |
| #2 | 10.088 | .02697 | 9.9985 | 10.038 | 9.9945 | 10.021 | -.07754 |
| Errors | QC Pass | NOCHECK | QC Pass | QC Pass | QC Pass | QC Pass | NOCHECK |
| Value | 10.000 | | 10.000 | 10.000 | 10.000 | 10.000 | |
| Range | 5.0000 | | 5.0000 | 5.0000 | 5.0000 | 5.0000 | |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .04582 | -.03387 | 9.9944 | .10488 | 10.011 | 2.0019 | 9.9979 |
| SDev | .01529 | .00223 | .0010 | .00017 | .000 | .0053 | .0074 |
| %RSD | 33.378 | 6.5736 | .00964 | .16198 | .00259 | .26363 | .07359 |
| #1 | .05663 | -.03230 | 9.9951 | .10500 | 10.011 | 1.9981 | 9.9927 |
| #2 | .03500 | -.03544 | 9.9937 | .10476 | 10.011 | 2.0056 | 10.003 |
| Errors | NOCHECK | NOCHECK | QC Pass | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | | 10.000 | | 10.000 | 2.0000 | 10.000 |
| Range | | | 5.0000 | | 5.0000 | 5.0000 | 5.0000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | 10.028 | 10.004 | 9.9973 | 9.9879 | 10.000 | .00319 | .01997 |
| SDev | .028 | .002 | .0171 | .0324 | .009 | .00005 | .00228 |
| %RSD | .28083 | .02011 | .17080 | .32476 | .09140 | 1.5696 | 11.429 |
| #1 | 10.048 | 10.003 | 9.9852 | 9.9650 | 9.9936 | .00323 | .02159 |
| #2 | 10.008 | 10.006 | 10.009 | 10.011 | 10.007 | .00315 | .01836 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | NOCHECK | NOCHECK |
| Value | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | | |
| Range | 5.0000 | 5.0000 | 5.0000 | 5.0000 | 5.0000 | | |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .01866 | .00030 | .01046 | .00116 |
| SDev | .00239 | .00300 | .00072 | .00001 |
| %RSD | 12.791 | 1013.8 | 6.8885 | .50381 |
| #1 | .02035 | .00242 | .01097 | .00117 |
| #2 | .01697 | -.00183 | .00995 | .00116 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value | | | | |
| Range | | | | |

Method: 28EL Sample Name: MIXAHIGH Operator: SW
Run Time: 09/17/04 10:25:45
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | -.01052 | .00534 | .02237 | -.00338 | .00261 | 495.28 | .00141 |
| SDev | .00355 | .00194 | .01381 | .00139 | .00006 | .93 | .00016 |
| %RSD | 33.787 | 36.376 | 61.732 | 41.048 | 2.4017 | .18867 | 11.461 |
| #1 | -.01303 | .00671 | .03214 | -.00240 | .00266 | 495.94 | .00129 |
| #2 | -.00801 | .00397 | .01261 | -.00436 | .00257 | 494.62 | .00152 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass | NOCHECK |
| Value | | | | | | 500.00 | |
| Range | | | | | | 5.0000 | |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00189 | 497.80 | -.00019 | .00477 | .00396 | .00429 | 199.41 |
| SDev | .00009 | 4.74 | .00070 | .00062 | .00047 | .00008 | 1.46 |
| %RSD | 4.9841 | .95150 | 375.24 | 13.006 | 11.898 | 1.7694 | .73263 |
| #1 | .00182 | 494.46 | -.00069 | .00433 | .00363 | .00434 | 198.38 |
| #2 | .00195 | 501.15 | .00031 | .00521 | .00429 | .00423 | 200.45 |
| Errors | NOCHECK | QC Pass | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass |
| Value | | 500.00 | | | | | 200.00 |
| Range | | 5.0000 | | | | | 5.0000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 99.288 | 500.50 | .00777 | 99.389 | .00451 | .00774 | .00525 |
| SDev | .464 | 3.86 | .00017 | .744 | .00052 | .00250 | .00000 |
| %RSD | .46726 | .77124 | 2.2521 | .74863 | 11.464 | 32.257 | .01647 |
| #1 | 99.616 | 497.77 | .00764 | 99.915 | .00487 | .00598 | .00525 |
| #2 | 98.960 | 503.23 | .00789 | 98.863 | .00414 | .00951 | .00524 |
| Errors | QC Pass | QC Pass | NOCHECK | QC Pass | NOCHECK | NOCHECK | NOCHECK |
| Value | 100.00 | 500.00 | | 100.00 | | | |
| Range | 5.0000 | 5.0000 | | 5.0000 | | | |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .00384 | .00491 | .00006 | .00520 | -.00771 | -.05564 | .00572 |
| SDev | .00092 | .00007 | .00011 | .00552 | .00542 | .00041 | .00018 |
| %RSD | 23.823 | 1.5141 | 192.78 | 106.26 | 70.341 | .73493 | 3.1889 |
| #1 | .00449 | .00496 | .00014 | .00910 | -.01154 | -.05535 | .00559 |
| #2 | .00319 | .00485 | -.00002 | .00129 | -.00387 | -.05593 | .00585 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value | | | | | | | |
| Range | | | | | | | |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .01839 | .00083 | .00434 | .00703 |
| SDev | .00194 | .00178 | .00072 | .00005 |
| %RSD | 10.521 | 213.23 | 16.578 | .76282 |
| | | | | |
| #1 | .01976 | -.00042 | .00485 | .00699 |
| #2 | .01702 | .00209 | .00384 | .00707 |
| | | | | |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK |
| Value | | | | |
| Range | | | | |

Method: 28EL Sample Name: ICV Operator: SW
Run Time: 09/17/04 10:32:37
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .24927 | .23861 | .26787 | .24723 | .24206 | 24.650 | .25012 |
| SDev | .00000 | .00288 | .01106 | .00029 | .00012 | .000 | .00112 |
| %RSD | .00036 | 1.2071 | 4.1276 | .11887 | .04790 | .00164 | .44751 |
| #1 | .24927 | .24065 | .27568 | .24744 | .24197 | 24.650 | .24933 |
| #2 | .24927 | .23657 | .26005 | .24702 | .24214 | 24.650 | .25091 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | | | | .25000 | 25.250 | .25000 |
| Range | | | | | 10.000 | 10.000 | 10.000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .25475 | 24.661 | .24474 | .24354 | .24109 | .24907 | 9.8039 |
| SDev | .00011 | .066 | .00101 | .00018 | .00035 | .00110 | .0176 |
| %RSD | .04434 | .26740 | .41116 | .07483 | .14666 | .44132 | .17944 |
| #1 | .25483 | 24.708 | .24403 | .24341 | .24134 | .24829 | 9.8164 |
| #2 | .25467 | 24.615 | .24545 | .24367 | .24084 | .24985 | 9.7915 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .25000 | 25.250 | .25000 | .25000 | .25000 | .25000 | 10.250 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 9.8980 | 24.637 | .24298 | 10.138 | .23958 | .26063 | .24911 |
| SDev | .0358 | .050 | .00007 | .037 | .00054 | .00281 | .00058 |
| %RSD | .36163 | .20488 | .02971 | .36831 | .22487 | 1.0784 | .23448 |
| #1 | 9.8727 | 24.673 | .24303 | 10.112 | .23920 | .25864 | .24952 |
| #2 | 9.9233 | 24.602 | .24293 | 10.165 | .23996 | .26262 | .24870 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | 10.000 | 25.250 | .25000 | 10.250 | .25000 | .25000 | .25000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .24063 | .25190 | .24216 | .25410 | .25403 | .24017 | .50050 |
| SDev | .00013 | .00643 | .00192 | .00388 | .00155 | .00035 | .00234 |
| %RSD | .05442 | 2.5531 | .79321 | 1.5261 | .61094 | .14627 | .46735 |
| #1 | .24072 | .25644 | .24352 | .25685 | .25513 | .23992 | .49885 |
| #2 | .24053 | .24735 | .24080 | .25136 | .25293 | .24042 | .50215 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .25000 | .25000 | .25000 | .25000 | .25000 | .25000 | .50000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .13428 | .24155 | .24135 | .24478 |
| SDev | .00083 | .00582 | .00144 | .00083 |
| %RSD | .61701 | 2.4109 | .59781 | .33755 |
| #1 | .13486 | .23744 | .24237 | .24419 |
| #2 | .13369 | .24567 | .24033 | .24536 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .12500 | .25000 | .25000 | .25000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 |

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Method: 28EL Sample Name: ICB Operator: SW
Run Time: 09/17/04 10:35:09
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | -.00195 | .00015 | .00382 | .00065 | .00106 | .00991 | -.00020 |
| SDev | .00078 | .00042 | .00805 | .00127 | .00064 | .00138 | .00002 |
| %RSD | 40.050 | 273.73 | 210.99 | 194.64 | 60.351 | 13.972 | 12.023 |
| #1 | -.00140 | -.00014 | -.00188 | -.00024 | .00151 | .01088 | -.00018 |
| #2 | -.00250 | .00045 | .00951 | .00155 | .00061 | .00893 | -.00021 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | .01000 | .20000 | .10000 |
| Low | | | | | -.01000 | -.20000 | -.10000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00015 | .01424 | -.00026 | .00047 | .00018 | .00034 | .02097 |
| SDev | .00000 | .00042 | .00006 | .00073 | .00024 | .00030 | .00773 |
| %RSD | .00000 | 2.9771 | 24.421 | 155.82 | 127.91 | 88.066 | 36.864 |
| #1 | .00015 | .01454 | -.00022 | .00098 | .00035 | .00056 | .02644 |
| #2 | .00015 | .01394 | -.00031 | -.00005 | .00002 | .00013 | .01550 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .00500 | 1.0000 | .00500 | .01000 | .01000 | .01000 | .10000 |
| Low | -.00500 | -1.0000 | -.00500 | -.01000 | -.01000 | -.01000 | -.10000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .15302 | -.00571 | -.00016 | .07125 | .00108 | .00273 | .00003 |
| SDev | .01299 | .00495 | .00003 | .00032 | .00030 | .00039 | .00000 |
| %RSD | 8.4899 | 86.710 | 18.929 | .45546 | 27.753 | 14.304 | 1.0053 |
| #1 | .16220 | -.00221 | -.00014 | .07148 | .00129 | .00246 | .00003 |
| #2 | .14383 | -.00920 | -.00018 | .07102 | .00086 | .00301 | .00003 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1.0000 | 1.0000 | .01000 | 1.0000 | .02000 | .02000 | .01000 |
| Low | -1.0000 | -1.0000 | -.01000 | -1.0000 | -.02000 | -.02000 | -.01000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | -.00180 | .00170 | -.00055 | .00171 | .00080 | .00056 | .00295 |
| SDev | .00000 | .00013 | .00002 | .00353 | .00442 | .00011 | .00023 |
| %RSD | .00000 | 7.6203 | 3.7779 | 206.83 | 552.05 | 18.889 | 7.8196 |
| #1 | -.00180 | .00161 | -.00056 | -.00079 | .00393 | .00063 | .00311 |
| #2 | -.00180 | .00179 | -.00053 | .00420 | -.00233 | .00048 | .00279 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .02000 | .01000 | .00300 | .00500 | .01000 | .01000 | .10000 |
| Low | -.02000 | -.01000 | -.00300 | -.00500 | -.01000 | -.01000 | -.10000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .00061 | -.00217 | .00129 | .00017 |
| SDev | .00074 | .00009 | .00024 | .00002 |
| %RSD | 121.40 | 4.3443 | 18.626 | 10.316 |
| #1 | .00113 | -.00211 | .00112 | .00018 |
| #2 | .00009 | -.00224 | .00146 | .00015 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .05000 | .05000 | .01000 | .01000 |
| Low | -.05000 | -.05000 | -.01000 | -.01000 |

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Method: 28EL Sample Name: CRI Operator: SW
Run Time: 09/17/04 10:37:40
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .00347 | .00666 | .01034 | .01331 | .02007 | .40231 | .41077 |
| SDev | .00129 | .00003 | .00287 | .00293 | .00022 | .00744 | .00138 |
| %RSD | 37.076 | .41735 | 27.802 | 22.040 | 1.1177 | 1.8487 | .33697 |
| #1 | .00256 | .00668 | .01237 | .01123 | .01991 | .39705 | .40979 |
| #2 | .00438 | .00664 | .00830 | .01538 | .02023 | .40757 | .41175 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01058 | 9.7287 | .01001 | .10275 | .01964 | .05123 | .17899 |
| SDev | .00006 | .0455 | .00014 | .00055 | .00022 | .00061 | .00500 |
| %RSD | .52919 | .46739 | 1.3788 | .53283 | 1.1325 | 1.1841 | 2.7915 |
| #1 | .01054 | 9.6965 | .00992 | .10236 | .01948 | .05080 | .18253 |
| #2 | .01062 | 9.7608 | .01011 | .10314 | .01980 | .05166 | .17546 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 9.0300 | 9.9975 | .03056 | 9.0455 | .08116 | .12343 | .10350 |
| SDev | .0459 | .0449 | .00011 | .0582 | .00052 | .00197 | .00078 |
| %RSD | .50787 | .44924 | .37049 | .64291 | .63912 | 1.5993 | .75051 |
| #1 | 8.9976 | 9.9657 | .03048 | 9.0044 | .08080 | .12483 | .10296 |
| #2 | 9.0624 | 10.029 | .03064 | 9.0866 | .08153 | .12203 | .10405 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .04053 | .01202 | .00560 | .01232 | .02156 | .01943 | .19754 |
| SDev | .00026 | .00214 | .00041 | .00100 | .00774 | .00014 | .00153 |
| %RSD | .64505 | 17.804 | 7.3207 | 8.1143 | 35.905 | .72300 | .77368 |
| #1 | .04072 | .01354 | .00531 | .01161 | .02704 | .01933 | .19645 |
| #2 | .04035 | .01051 | .00589 | .01303 | .01609 | .01953 | .19862 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .10105 | .09949 | .02183 | .02010 |
| SDev | .00082 | .00188 | .00048 | .00008 |
| %RSD | .81361 | 1.8871 | 2.1997 | .41968 |
| #1 | .10047 | .09817 | .02149 | .02004 |
| #2 | .10163 | .10082 | .02217 | .02016 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

Method: 28EL Sample Name: ICSA Operator: SW
Run Time: 09/17/04 10:40:12
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | -.01361 | .00854 | .02289 | -.01264 | -.00030 | 492.53 | .00024 |
| SDev | .00578 | .00475 | .00760 | .00120 | .00010 | 3.35 | .00005 |
| %RSD | 42.449 | 55.671 | 33.209 | 9.5325 | 32.542 | .67947 | 19.867 |
| #1 | -.00953 | .00518 | .02826 | -.01349 | -.00023 | 494.89 | .00021 |
| #2 | -.01770 | .01190 | .01751 | -.01178 | -.00037 | 490.16 | .00027 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | | | | .00000 | 500.00 | .00000 |
| Range | | | | | .02000 | 100.00 | .20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00113 | 502.41 | -.00178 | .00297 | -.00113 | -.00137 | 200.51 |
| SDev | .00000 | 5.74 | .00002 | .00015 | .00005 | .00008 | 1.03 |
| %RSD | .01809 | 1.1428 | 1.2841 | 4.8971 | 4.6330 | 5.5293 | .51332 |
| #1 | .00113 | 498.35 | -.00177 | .00307 | -.00109 | -.00142 | 199.78 |
| #2 | .00113 | 506.47 | -.00180 | .00286 | -.00117 | -.00132 | 201.24 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .00000 | 500.00 | .00000 | .00000 | .00000 | .00000 | 200.00 |
| Range | .01000 | 100.00 | .01000 | .02000 | .02000 | .02000 | 40.000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .06801 | 509.84 | .00703 | .20082 | .00317 | .00058 | .00441 |
| SDev | .04819 | 2.06 | .00004 | .00220 | .00000 | .00306 | .00038 |
| %RSD | 70.856 | .40373 | .58526 | 1.0970 | .00573 | 532.38 | 8.7264 |
| #1 | .03394 | 508.38 | .00706 | .20238 | .00317 | -.00159 | .00414 |
| #2 | .10209 | 511.29 | .00700 | .19926 | .00317 | .00274 | .00469 |
| Errors | NOCHECK | QC Pass | QC Pass | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | 500.00 | .00000 | | .00000 | .00000 | .00000 |
| Range | | 100.00 | .02000 | | .04000 | .04000 | .02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .00282 | .00121 | .00116 | -.00081 | -.01487 | -.01105 | .00162 |
| SDev | .00026 | .00334 | .00125 | .00173 | .00264 | .00038 | .00119 |
| %RSD | 9.2570 | 275.62 | 107.24 | 214.33 | 17.741 | 3.4154 | 73.948 |
| #1 | .00264 | -.00115 | .00028 | .00042 | -.01301 | -.01079 | .00077 |
| #2 | .00301 | .00358 | .00204 | -.00203 | -.01674 | -.01132 | .00246 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |
| Range | .04000 | .02000 | .00600 | .01000 | .02000 | .02000 | .20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .00724 | -.00018 | -.00295 | .00556 |
| SDev | .00030 | .00019 | .00240 | .00003 |
| %RSD | 4.1601 | 102.95 | 81.242 | .53484 |
| #1 | .00703 | -.00031 | -.00126 | .00558 |
| #2 | .00746 | -.00005 | -.00465 | .00554 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .00000 | .00000 | .00000 | .00000 |
| Range | .10000 | .10000 | .02000 | .02000 |

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Method: 28EL Sample Name: ICSAB Operator: SW
Run Time: 09/17/04 10:42:45
Comment:
Mode: CONC Corr. Factor: 1

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| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .03549 | .05181 | .07626 | .04497 | .20946 | 512.17 | .49286 |
| SDev | .00183 | .00037 | .00834 | .00243 | .00050 | 2.34 | .00239 |
| %RSD | 5.1475 | .71323 | 10.940 | 5.4070 | .23662 | .45632 | .48473 |
| #1 | .03419 | .05155 | .08216 | .04325 | .20911 | 510.52 | .49117 |
| #2 | .03678 | .05207 | .07036 | .04669 | .20981 | 513.82 | .49455 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | | | | .20000 | 500.00 | .50000 |
| Range | | | | | 20.000 | 20.000 | 20.000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .48511 | 525.37 | .91757 | .46897 | .45083 | .54097 | 209.08 |
| SDev | .00112 | 3.00 | .00268 | .00113 | .00215 | .00396 | .41 |
| %RSD | .23052 | .57013 | .29265 | .24128 | .47672 | .73198 | .19421 |
| #1 | .48590 | 527.49 | .91947 | .46977 | .45235 | .53817 | 209.36 |
| #2 | .48432 | 523.25 | .91567 | .46817 | .44931 | .54377 | 208.79 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | 500.00 | 1.0000 | .50000 | .50000 | .50000 | 200.00 |
| Range | 20.000 | 20.000 | 20.000 | 20.000 | 20.000 | 20.000 | 20.000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | -.02542 | 531.98 | .46903 | .12524 | .90642 | .64422 | .48513 |
| SDev | .02105 | .87 | .00058 | .00032 | .00015 | .00654 | .00000 |
| %RSD | 82.805 | .16419 | .12348 | .25482 | .01687 | 1.0148 | .00066 |
| #1 | -.01054 | 532.60 | .46944 | .12547 | .90652 | .63960 | .48513 |
| #2 | -.04030 | 531.37 | .46862 | .12501 | .90631 | .64885 | .48513 |
| Errors | NOCHECK | QC Pass | QC Pass | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | 500.00 | .50000 | | 1.0000 | .60000 | .50000 |
| Range | | 20.000 | 20.000 | | 20.000 | 20.000 | 20.000 |

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| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .89405 | .10556 | .04638 | .05539 | .09311 | Q-.01161 | Q.00325 |
| SDev | .00685 | .00174 | .00085 | .00116 | .00809 | .00019 | .00040 |
| %RSD | .76559 | 1.6470 | 1.8431 | 2.0874 | 8.6893 | 1.6233 | 12.168 |
| #1 | .89889 | .10433 | .04577 | .05621 | .08739 | Q-.01174 | Q.00297 |
| #2 | .88921 | .10679 | .04698 | .05458 | .09883 | Q-.01148 | Q.00353 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Fail | QC Fail |
| Value | 1.0000 | .10000 | .05000 | .05000 | .10000 | 1.0000 | 1.0000 |
| Range | 20.000 | 20.000 | 20.000 | 20.000 | 20.000 | 20.000 | 20.000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | Q.01890 | Q.00380 | Q-.00075 | Q.00580 |
| SDev | .00039 | .00225 | .00264 | .00000 |
| %RSD | 2.0732 | 59.272 | 352.98 | .00000 |

| | | | | |
|---|---|---|---|---|
| #1 | Q.01917 | Q.00539 | Q-.00262 | Q.00580 |
| #2 | Q.01862 | Q.00221 | Q.00112 | Q.00580 |

| | | | | |
|---|---|---|---|---|
| Errors | QC Fail | QC Fail | QC Fail | QC Fail |
| Value | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| Range | 20.000 | 20.000 | 20.000 | 20.000 |

Method: 28EL Sample Name: ICSAB Operator: SW
Run Time: 09/17/04 10:45:29
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .03632 | .05039 | .05829 | .04148 | .19421 | 473.13 | .45839 |
| SDev | .00106 | .00457 | .01074 | .00306 | .00007 | 1.38 | .00124 |
| %RSD | 2.9111 | 9.0603 | 18.428 | 7.3805 | .03398 | .29105 | .27090 |
| #1 | .03707 | .04716 | .06589 | .04365 | .19416 | 474.11 | .45926 |
| #2 | .03557 | .05362 | .05070 | .03932 | .19426 | 472.16 | .45751 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | | | | .20000 | 500.00 | .50000 |
| Range | | | | | 20.000 | 20.000 | 20.000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .45095 | 485.64 | .85490 | .43433 | .41979 | .49861 | 193.25 |
| SDev | .00083 | 1.59 | .00280 | .00153 | .00079 | .00210 | .38 |
| %RSD | .18473 | .32669 | .32735 | .35279 | .18728 | .42180 | .19784 |
| #1 | .45036 | 484.52 | .85292 | .43325 | .41924 | .50009 | 192.98 |
| #2 | .45153 | 486.77 | .85688 | .43541 | .42035 | .49712 | 193.52 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | 500.00 | 1.0000 | .50000 | .50000 | .50000 | 200.00 |
| Range | 20.000 | 20.000 | 20.000 | 20.000 | 20.000 | 20.000 | 20.000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | -.04433 | 489.81 | .43630 | .10838 | .84355 | .60096 | .45188 |
| SDev | .01710 | .58 | .00054 | .00149 | .00005 | .00189 | .00078 |
| %RSD | 38.574 | .11800 | .12322 | 1.3710 | .00562 | .31454 | .17250 |
| #1 | -.05643 | 489.40 | .43592 | .10943 | .84352 | .59963 | .45133 |
| #2 | -.03224 | 490.22 | .43668 | .10733 | .84358 | .60230 | .45243 |
| Errors | NOCHECK | QC Pass | QC Pass | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | 500.00 | .50000 | | 1.0000 | .60000 | .50000 |
| Range | | 20.000 | 20.000 | | 20.000 | 20.000 | 20.000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .83245 | .09689 | .04571 | .04708 | .08483 | .90474 | .96418 |
| SDev | .00184 | .00443 | .00269 | .00562 | .00186 | .00047 | .00366 |
| %RSD | .22126 | 4.5692 | 5.8926 | 11.936 | 2.1886 | .05189 | .37965 |
| #1 | .83115 | .10002 | .04380 | .05105 | .08351 | .90441 | .96677 |
| #2 | .83375 | .09376 | .04761 | .04311 | .08614 | .90507 | .96159 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | 1.0000 | .10000 | .05000 | .05000 | .10000 | 1.0000 | 1.0000 |
| Range | 20.000 | 20.000 | 20.000 | 20.000 | 20.000 | 20.000 | 20.000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .94665 | .92729 | .90277 | .91329 |
| SDev | .00173 | .00283 | .00217 | .00200 |
| %RSD | .18274 | .30506 | .24083 | .21866 |
| #1 | .94543 | .92529 | .90124 | .91470 |
| #2 | .94788 | .92929 | .90431 | .91187 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| Range | 20.000 | 20.000 | 20.000 | 20.000 |

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Method: 28EL Sample Name: CCV Operator: SW
Run Time: 09/17/04 10:48:02
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .49003 | .48069 | .52363 | .49494 | .48603 | 49.059 | .49374 |
| SDev | .00030 | .00221 | .01375 | .00590 | .00005 | .058 | .00096 |
| %RSD | .06210 | .45905 | 2.6254 | 1.1923 | .01039 | .11800 | .19355 |
| #1 | .49025 | .47913 | .51391 | .49077 | .48600 | 49.100 | .49306 |
| #2 | .48982 | .48225 | .53335 | .49911 | .48607 | 49.018 | .49441 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | | | | .50000 | 50.500 | .50000 |
| Range | | | | | 10.000 | 10.000 | 10.000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .50337 | 49.921 | .48361 | .48128 | .47621 | .49482 | 19.842 |
| SDev | .00023 | .059 | .00015 | .00066 | .00018 | .00034 | .023 |
| %RSD | .04521 | .11893 | .03080 | .13645 | .03853 | .06893 | .11426 |
| #1 | .50321 | 49.963 | .48350 | .48175 | .47633 | .49457 | 19.826 |
| #2 | .50353 | 49.879 | .48371 | .48082 | .47608 | .49506 | 19.858 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | 50.500 | .50000 | .50000 | .50000 | .50000 | 20.500 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 19.835 | 48.885 | .47771 | 20.424 | .47516 | .51896 | .49368 |
| SDev | .021 | .009 | .00039 | .031 | .00023 | .00364 | .00000 |
| %RSD | .10419 | .01912 | .08228 | .15082 | .04771 | .70044 | .00012 |
| #1 | 19.849 | 48.892 | .47799 | 20.446 | .47532 | .52153 | .49368 |
| #2 | 19.820 | 48.879 | .47743 | 20.402 | .47500 | .51639 | .49368 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | 20.000 | 50.500 | .50000 | 20.500 | .50000 | .50000 | .50000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .47731 | .50420 | .48380 | .50449 | .50940 | .47707 | .99524 |
| SDev | .00066 | .00045 | .00137 | .00851 | .00332 | .00014 | .00091 |
| %RSD | .13742 | .08998 | .28327 | 1.6876 | .65254 | .02847 | .09110 |
| #1 | .47777 | .50452 | .48283 | .49847 | .50705 | .47717 | .99460 |
| #2 | .47685 | .50387 | .48477 | .51051 | .51175 | .47698 | .99589 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | .50000 | .50000 | .50000 | .50000 | .50000 | 1.0000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .26603 | .48442 | .48130 | .48606 |
| SDev | .00036 | .00320 | .00048 | .00081 |
| %RSD | .13451 | .65997 | .10010 | .16572 |
| #1 | .26628 | .48668 | .48164 | .48549 |
| #2 | .26578 | .48216 | .48096 | .48663 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .25000 | .50000 | .50000 | .50000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 |

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Method: 28EL Sample Name: CCB Operator: SW
Run Time: 09/17/04 10:50:35
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | -.00357 | .00204 | .00321 | .00163 | .00080 | .04395 | -.00032 |
| SDev | .00057 | .00117 | .00787 | .00121 | .00050 | .00455 | .00006 |
| %RSD | 15.912 | 57.450 | 245.36 | 74.424 | 61.754 | 10.351 | 18.354 |
| #1 | -.00397 | .00286 | -.00236 | .00077 | .00115 | .04716 | -.00028 |
| #2 | -.00317 | .00121 | .00878 | .00249 | .00045 | .04073 | -.00037 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | .01000 | .20000 | .10000 |
| Low | | | | | -.01000 | -.20000 | -.10000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00008 | .04360 | -.00027 | .00047 | .00048 | .00014 | .03626 |
| SDev | .00002 | .00263 | .00008 | .00080 | .00039 | .00025 | .00458 |
| %RSD | 22.990 | 6.0340 | 31.229 | 171.16 | 81.744 | 171.92 | 12.635 |
| #1 | .00009 | .04546 | -.00021 | .00104 | .00076 | .00032 | .03950 |
| #2 | .00007 | .04174 | -.00033 | -.00010 | .00020 | -.00003 | .03302 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .00500 | 1.0000 | .00500 | .01000 | .01000 | .01000 | .10000 |
| Low | -.00500 | -1.0000 | -.00500 | -.01000 | -.01000 | -.01000 | -.10000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .12355 | .02870 | -.00017 | .07408 | .00110 | .00323 | .00003 |
| SDev | .03738 | .00634 | .00002 | .00085 | .00021 | .00251 | .00039 |
| %RSD | 30.255 | 22.106 | 12.080 | 1.1535 | 19.498 | 77.587 | 1319.7 |
| #1 | .14998 | .03319 | -.00016 | .07469 | .00125 | .00501 | .00030 |
| #2 | .09712 | .02422 | -.00018 | .07348 | .00094 | .00146 | -.00025 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1.0000 | 1.0000 | .01000 | 1.0000 | .02000 | .02000 | .01000 |
| Low | -1.0000 | -1.0000 | -.01000 | -1.0000 | -.02000 | -.02000 | -.01000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | -.00180 | .00256 | .00017 | .00216 | .00127 | .00021 | .00317 |
| SDev | .00026 | .00235 | .00059 | .00343 | .00155 | .00022 | .00025 |
| %RSD | 14.545 | 91.741 | 351.57 | 159.12 | 121.61 | 103.99 | 7.7988 |
| #1 | -.00161 | .00423 | .00059 | -.00027 | .00237 | .00037 | .00334 |
| #2 | -.00198 | .00090 | -.00025 | .00458 | .00018 | .00006 | .00299 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .02000 | .01000 | .00300 | .00500 | .01000 | .01000 | .10000 |
| Low | -.02000 | -.01000 | -.00300 | -.00500 | -.01000 | -.01000 | -.10000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | -.00018 | -.00065 | .00197 | .00011 |
| SDev | .00092 | .00263 | .00072 | .00003 |
| %RSD | 502.53 | 404.61 | 36.598 | 25.927 |
| #1 | .00047 | -.00250 | .00248 | .00013 |
| #2 | -.00083 | .00121 | .00146 | .00009 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .05000 | .05000 | .01000 | .01000 |
| Low | -.05000 | -.05000 | -.01000 | -.01000 |

Method: 28EL Sample Name: IP040916-2MB Operator: SW
Run Time: 09/17/04 10:54:52
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | -.00400 | .00175 | .01157 | -.00581 | .00056 | .02903 | -.00030 |
| SDev | .00117 | .00037 | .00926 | .00041 | .00018 | .00248 | .00012 |
| %RSD | 29.387 | 21.165 | 80.062 | 7.0498 | 33.001 | 8.5410 | 39.808 |
| #1 | -.00483 | .00201 | .00502 | -.00552 | .00069 | .03078 | -.00021 |
| #2 | -.00317 | .00149 | .01812 | -.00610 | .00043 | .02728 | -.00038 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | .01000 | .20000 | .10000 |
| Low | | | | | -.01000 | -.20000 | -.10000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00004 | .03756 | -.00093 | .00003 | .00009 | -.00018 | .02514 |
| SDev | .00000 | .00109 | .00003 | .00004 | .00047 | .00009 | .00718 |
| %RSD | .24968 | 2.9050 | 3.4492 | 122.19 | 514.19 | 53.141 | 28.554 |
| #1 | .00004 | .03834 | -.00091 | .00006 | .00042 | -.00011 | .03021 |
| #2 | .00004 | .03679 | -.00095 | .00000 | -.00024 | -.00025 | .02006 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .00500 | 1.0000 | .00500 | .01000 | .01000 | .01000 | .10000 |
| Low | -.00500 | -1.0000 | -.00500 | -.01000 | -.01000 | -.01000 | -.10000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .07829 | .00008 | -.00021 | .07390 | .00094 | -.00042 | -.00038 |
| SDev | .03865 | .01115 | .00002 | .00053 | .00024 | .00108 | .00019 |
| %RSD | 49.370 | 14018. | 9.6161 | .71783 | 25.742 | 256.80 | 50.582 |
| #1 | .10562 | .00796 | -.00020 | .07427 | .00111 | .00034 | -.00025 |
| #2 | .05096 | -.00781 | -.00023 | .07352 | .00076 | -.00119 | -.00052 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1.0000 | 1.0000 | .01000 | 1.0000 | .02000 | .02000 | .01000 |
| Low | -1.0000 | -1.0000 | -.01000 | -1.0000 | -.02000 | -.02000 | -.01000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | -.00281 | .00072 | -.00016 | -.00002 | .00190 | .00045 | .00275 |
| SDev | .00039 | .00236 | .00014 | .00281 | .00376 | .00009 | .00018 |
| %RSD | 13.935 | 326.84 | 87.584 | 11407. | 198.06 | 20.410 | 6.5815 |
| #1 | -.00254 | -.00095 | -.00027 | -.00201 | -.00076 | .00051 | .00262 |
| #2 | -.00309 | .00240 | -.00006 | .00196 | .00455 | .00038 | .00288 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .02000 | .01000 | .00300 | .00500 | .01000 | .01000 | .10000 |
| Low | -.02000 | -.01000 | -.00300 | -.00500 | -.01000 | -.01000 | -.10000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .01060 | .00247 | .00027 | .00011 |
| SDev | .00027 | .00085 | .00024 | .00002 |
| %RSD | 2.5731 | 34.202 | 88.791 | 21.525 |
| | | | | |
| #1 | .01079 | .00307 | .00044 | .00012 |
| #2 | .01041 | .00187 | .00010 | .00009 |
| | | | | |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .05000 | .05000 | .01000 | .01000 |
| Low | -.05000 | -.05000 | -.01000 | -.01000 |

Method: 28EL Sample Name: IP040916-2LCS Operator: SW
Run Time: 09/17/04 10:58:56
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .57819 | .57267 | .55091 | .53241 | .06320 | 5.0258 | .48895 |
| SDev | .00046 | .00480 | .00123 | .00169 | .00052 | .0109 | .00078 |
| %RSD | .08015 | .83800 | .22371 | .31800 | .82198 | .21720 | .15879 |
| #1 | .57852 | .56927 | .55178 | .53121 | .06356 | 5.0181 | .48840 |
| #2 | .57786 | .57606 | .55004 | .53361 | .06283 | 5.0336 | .48950 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .50264 | .02392 | .58410 | .48056 | .47658 | .49507 | 4.6228 |
| SDev | .00051 | .00043 | .00154 | .00047 | .00022 | .00123 | .0040 |
| %RSD | .10185 | 1.8006 | .26376 | .09870 | .04675 | .24877 | .08662 |
| #1 | .50300 | .02361 | .58519 | .48090 | .47674 | .49420 | 4.6256 |
| #2 | .50228 | .02422 | .58301 | .48023 | .47643 | .49594 | 4.6200 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .05280 | -.01445 | .48496 | .07565 | .48523 | .01975 | .48213 |
| SDev | .01124 | .00148 | .00050 | .00018 | .00251 | .00025 | .00000 |
| %RSD | 21.289 | 10.270 | .10239 | .23357 | .51837 | 1.2812 | .00024 |
| #1 | .06074 | -.01340 | .48531 | .07577 | .48701 | .01957 | .48213 |
| #2 | .04485 | -.01550 | .48461 | .07552 | .48345 | .01993 | .48213 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .48204 | .52927 | .57451 | .53857 | -.00143 | .00034 | .00273 |
| SDev | .00289 | .00067 | .00305 | .00072 | .00509 | .00009 | .00107 |
| %RSD | .59874 | .12632 | .53029 | .13348 | 354.78 | 26.859 | 39.200 |
| #1 | .48408 | .52975 | .57235 | .53806 | .00216 | .00040 | .00197 |
| #2 | .48000 | .52880 | .57666 | .53908 | -.00503 | .00027 | .00348 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .01008 | .00300 | .01877 | .00004 |
| SDev | .00017 | .00253 | .00096 | .00001 |
| %RSD | 1.6808 | 84.409 | 5.1154 | 27.095 |
| #1 | .00996 | .00121 | .01810 | .00005 |
| #2 | .01020 | .00479 | .01945 | .00003 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-1 Operator: SW
Run Time: 09/17/04 11:01:27
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .08211 | .08197 | .00485 | .00134 | -.00312 | 55.456 | 1.1063 |
| SDev | .00248 | .00030 | .00379 | .00678 | .00040 | .299 | .0006 |
| %RSD | 3.0266 | .36288 | 78.113 | 505.53 | 12.660 | .53965 | .05878 |
| #1 | .08387 | .08176 | .00217 | .00614 | -.00340 | 55.244 | 1.1059 |
| #2 | .08035 | .08218 | .00752 | -.00345 | -.00284 | 55.667 | 1.1068 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00847 | 84.733 | -.00278 | .05072 | .07546 | .04798 | 115.33 |
| SDev | .00002 | .020 | .00014 | .00055 | .00054 | .00023 | .05 |
| %RSD | .22197 | .02356 | 5.1206 | 1.0767 | .71110 | .47407 | .03984 |
| #1 | .00845 | 84.719 | -.00288 | .05110 | .07508 | .04782 | 115.36 |
| #2 | .00848 | 84.747 | -.00268 | .05033 | .07584 | .04814 | 115.30 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 8.1073 | 28.605 | 2.0437 | 1.8987 | .09658 | .00360 | .17374 |
| SDev | .0363 | .051 | .0006 | .0182 | .00043 | .00396 | .00000 |
| %RSD | .44807 | .17895 | .02732 | .95837 | .44447 | 109.78 | .00016 |
| #1 | 8.0816 | 28.569 | 2.0441 | 1.8858 | .09628 | .00081 | .17374 |
| #2 | 8.1329 | 28.641 | 2.0433 | 1.9115 | .09688 | .00640 | .17374 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .22405 | .03910 | .08202 | .00251 | -.00855 | .62860 | .07667 |
| SDev | .00131 | .00159 | .00063 | .00326 | .00441 | .00050 | .00003 |
| %RSD | .58430 | 4.0677 | .76711 | 130.05 | 51.596 | .07955 | .04437 |
| #1 | .22498 | .04023 | .08246 | .00482 | -.01167 | .62895 | .07665 |
| #2 | .22313 | .03798 | .08157 | .00020 | -.00543 | .62825 | .07670 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 9.1007 | .03179 | .00027 | .33970 |
| SDev | .0230 | .00103 | .00024 | .00020 |
| %RSD | .25239 | 3.2370 | 88.791 | .05885 |
| #1 | 9.0844 | .03106 | .00044 | .33956 |
| #2 | 9.1169 | .03252 | .00010 | .33984 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-2 Operator: SW
Run Time: 09/17/04 11:03:58
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .12824 | .12113 | .01634 | .00023 | -.00027 | 93.389 | 2.4002 |
| SDev | .00146 | .00218 | .01262 | .00120 | .00047 | .254 | .0047 |
| %RSD | 1.1400 | 1.7974 | 77.218 | 513.09 | 174.00 | .27205 | .19551 |
| #1 | .12720 | .12267 | .00742 | .00108 | -.00061 | 93.569 | 2.4035 |
| #2 | .12927 | .11959 | .02526 | -.00062 | .00006 | 93.210 | 2.3969 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00829 | 241.24 | -.00307 | .07016 | .12391 | .08774 | 178.83 |
| SDev | .00002 | .53 | .00000 | .00077 | .00076 | .00023 | .14 |
| %RSD | .22412 | .21825 | .03992 | 1.0987 | .61272 | .25925 | .07629 |
| #1 | .00831 | 240.87 | -.00307 | .07071 | .12337 | .08790 | 178.73 |
| #2 | .00828 | 241.61 | -.00307 | .06962 | .12445 | .08758 | 178.92 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 13.728 | 64.876 | 4.0302 | 1.9754 | .15326 | .19696 | .24814 |
| SDev | .022 | .001 | .0037 | .0027 | .00024 | .00501 | .00039 |
| %RSD | .16014 | .00111 | .09176 | .13615 | .15614 | 2.5419 | .15612 |
| #1 | 13.743 | 64.876 | 4.0276 | 1.9773 | .15343 | .19342 | .24841 |
| #2 | 13.712 | 64.877 | 4.0328 | 1.9735 | .15309 | .20050 | .24786 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .68202 | .06607 | .12350 | .00560 | -.00125 | .56786 | .13337 |
| SDev | .00263 | .00115 | .00097 | .00340 | .00070 | .00173 | .00104 |
| %RSD | .38534 | 1.7455 | .78169 | 60.756 | 55.881 | .30473 | .78239 |
| #1 | .68016 | .06689 | .12418 | .00319 | -.00175 | .56663 | .13263 |
| #2 | .68388 | .06525 | .12282 | .00800 | -.00076 | .56908 | .13411 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 10.064 | .02887 | .00027 | .76872 |
| SDev | .010 | .00113 | .00072 | .00104 |
| %RSD | .09615 | 3.9319 | 266.37 | .13582 |
| #1 | 10.071 | .02807 | -.00024 | .76946 |
| #2 | 10.057 | .02967 | .00078 | .76799 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-2D Operator: SW
Run Time: 09/17/04 11:06:29
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .19858 | .19221 | .01255 | .00426 | -.00041 | 90.065 | 2.2796 |
| SDev | .00614 | .00250 | .00234 | .00008 | .00077 | .371 | .0051 |
| %RSD | 3.0908 | 1.2996 | 18.644 | 1.8248 | 184.75 | .41151 | .22484 |
| #1 | .20292 | .19045 | .01420 | .00421 | .00013 | 89.803 | 2.2760 |
| #2 | .19424 | .19398 | .01089 | .00432 | -.00096 | 90.327 | 2.2832 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00820 | 205.33 | -.00198 | .06989 | .12307 | .09082 | 169.92 |
| SDev | .00000 | .39 | .00016 | .00047 | .00014 | .00000 | .17 |
| %RSD | .00251 | .19048 | 8.1901 | .67217 | .11700 | .00000 | .10001 |
| #1 | .00820 | 205.60 | -.00209 | .06956 | .12297 | .09082 | 170.04 |
| #2 | .00820 | 205.05 | -.00186 | .07023 | .12317 | .09082 | 169.80 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 14.054 | 63.631 | 4.3538 | 2.3756 | .15303 | .19277 | .24869 |
| SDev | .073 | .050 | .0016 | .0144 | .00003 | .00066 | .00039 |
| %RSD | .51618 | .07815 | .03604 | .60437 | .01986 | .34469 | .15589 |
| #1 | 14.003 | 63.596 | 4.3550 | 2.3655 | .15301 | .19324 | .24896 |
| #2 | 14.105 | 63.666 | 4.3527 | 2.3858 | .15305 | .19230 | .24841 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | 1.0910 | .06489 | .19433 | .00702 | -.00164 | .60629 | .12648 |
| SDev | .0026 | .00185 | .00038 | .00073 | .00041 | .00346 | .00043 |
| %RSD | .24170 | 2.8539 | .19439 | 10.353 | 24.892 | .57085 | .33795 |
| #1 | 1.0928 | .06359 | .19460 | .00754 | -.00193 | .60385 | .12678 |
| #2 | 1.0891 | .06620 | .19407 | .00651 | -.00135 | .60874 | .12617 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 9.4810 | .02497 | .00078 | .74494 |
| SDev | .0313 | .00017 | .00048 | .00150 |
| %RSD | .33027 | .67508 | 61.585 | .20066 |
| #1 | 9.4589 | .02509 | .00044 | .74389 |
| #2 | 9.5032 | .02485 | .00112 | .74600 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-2L 5X Operator: SW
Run Time: 09/17/04 11:08:59
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .02570 | .02517 | .01038 | .00123 | .00018 | 18.861 | .50544 |
| SDev | .00135 | .00082 | .00117 | .00153 | .00017 | .070 | .00160 |
| %RSD | 5.2680 | 3.2592 | 11.276 | 123.93 | 92.547 | .37264 | .31674 |
| #1 | .02666 | .02575 | .00955 | .00015 | .00006 | 18.911 | .50658 |
| #2 | .02474 | .02459 | .01120 | .00231 | .00030 | 18.811 | .50431 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00174 | 47.862 | -.00110 | .01480 | .02638 | .01738 | 34.058 |
| SDev | .00000 | .001 | .00007 | .00026 | .00038 | .00036 | .071 |
| %RSD | .00591 | .00234 | 6.4841 | 1.7359 | 1.4386 | 2.0722 | .20904 |
| #1 | .00174 | 47.863 | -.00105 | .01461 | .02611 | .01713 | 34.108 |
| #2 | .00174 | 47.861 | -.00115 | .01498 | .02665 | .01764 | 34.008 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 2.8211 | 13.471 | .86346 | .42382 | .03301 | .03757 | .05285 |
| SDev | .0047 | .025 | .00133 | .00143 | .00010 | .00151 | .00019 |
| %RSD | .16669 | .18687 | .15402 | .33694 | .31011 | 4.0055 | .36716 |
| #1 | 2.8245 | 13.489 | .86440 | .42483 | .03308 | .03651 | .05271 |
| #2 | 2.8178 | 13.453 | .86252 | .42281 | .03294 | .03863 | .05298 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .14771 | .01402 | .02535 | .00428 | .00307 | .12029 | .02851 |
| SDev | .00065 | .00102 | .00100 | .00141 | .00440 | .00115 | .00064 |
| %RSD | .44289 | 7.3025 | 3.9375 | 32.911 | 143.38 | .95556 | 2.2451 |
| #1 | .14724 | .01475 | .02605 | .00328 | -.00004 | .12111 | .02897 |
| #2 | .14817 | .01330 | .02464 | .00527 | .00618 | .11948 | .02806 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 2.0940 | .00651 | .00010 | .16006 |
| SDev | .0012 | .00188 | .00000 | .00035 |
| %RSD | .05781 | 28.907 | .00000 | .21983 |

| | | | | |
|---|---|---|---|---|
| #1 | 2.0932 | .00784 | .00010 | .16031 |
| #2 | 2.0949 | .00518 | .00010 | .15981 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

Method: 28EL Sample Name: 0409018-2MS Operator: SW
Run Time: 09/17/04 11:11:29
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .68545 | .67452 | .51593 | .48340 | .06049 | 102.54 | 3.1213 |
| SDev | .00155 | .00118 | .00573 | .00271 | .00036 | .58 | .0190 |
| %RSD | .22599 | .17457 | 1.1103 | .55994 | .59010 | .56459 | .60845 |
| #1 | .68436 | .67369 | .51999 | .48149 | .06024 | 102.13 | 3.1079 |
| #2 | .68655 | .67535 | .51188 | .48532 | .06074 | 102.95 | 3.1348 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .48459 | 244.68 | .52984 | .51906 | .55822 | .57515 | 180.97 |
| SDev | .00159 | .46 | .00098 | .00186 | .00004 | .00280 | .66 |
| %RSD | .32827 | .18703 | .18568 | .35881 | .00704 | .48753 | .36278 |
| #1 | .48346 | 244.36 | .52915 | .51774 | .55819 | .57316 | 180.50 |
| #2 | .48571 | 245.00 | .53054 | .52038 | .55825 | .57713 | 181.43 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 14.741 | 62.367 | 4.9213 | 2.4679 | .59834 | .22783 | .68037 |
| SDev | .115 | .182 | .0151 | .0195 | .00131 | .00925 | .00252 |
| %RSD | .77713 | .29228 | .30711 | .78846 | .21978 | 4.0612 | .37110 |
| #1 | 14.660 | 62.238 | 4.9106 | 2.4541 | .59742 | .23437 | .67858 |
| #2 | 14.822 | 62.496 | 4.9320 | 2.4817 | .59927 | .22129 | .68216 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | 2.8742 | .56290 | .67816 | .49424 | -.00432 | .61682 | .13477 |
| SDev | .0021 | .00740 | .00130 | .00010 | .00061 | .00378 | .00026 |
| %RSD | .07448 | 1.3147 | .19187 | .02066 | 14.039 | .61333 | .19040 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | 2.8727 | .55767 | .67724 | .49431 | -.00475 | .61414 | .13459 |
| #2 | 2.8757 | .56814 | .67908 | .49417 | -.00389 | .61949 | .13495 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 12.166 | .02841 | .01589 | .73563 |
| SDev | .078 | .00330 | .00120 | .00414 |
| %RSD | .64306 | 11.629 | 7.5556 | .56270 |
| #1 | 12.111 | .02607 | .01674 | .73270 |
| #2 | 12.222 | .03075 | .01504 | .73855 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-2MSD Operator: SW
Run Time: 09/17/04 11:14:00
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .69607 | .69445 | .51296 | .48968 | .06044 | 111.66 | 2.8560 |
| SDev | .00827 | .00560 | .00939 | .00593 | .00065 | .79 | .0173 |
| %RSD | 1.1887 | .80632 | 1.8306 | 1.2116 | 1.0737 | .71010 | .60605 |
| #1 | .69022 | .69841 | .50632 | .48548 | .05998 | 112.22 | 2.8683 |
| #2 | .70192 | .69049 | .51960 | .49387 | .06090 | 111.09 | 2.8438 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .48952 | 205.56 | .53386 | .52349 | .57464 | .58689 | 196.44 |
| SDev | .00337 | 2.28 | .00388 | .00401 | .00459 | .00472 | 1.29 |
| %RSD | .68902 | 1.1097 | .72659 | .76647 | .79851 | .80380 | .65772 |
| #1 | .48713 | 203.94 | .53112 | .52065 | .57139 | .59023 | 195.53 |
| #2 | .49190 | 207.17 | .53660 | .52632 | .57788 | .58356 | 197.36 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 15.642 | 67.196 | 4.2857 | 2.2176 | .61668 | .25390 | .68532 |
| SDev | .177 | .182 | .0229 | .0344 | .00337 | .00514 | .00214 |
| %RSD | 1.1325 | .27046 | .53368 | 1.5508 | .54657 | 2.0247 | .31218 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | 15.768 | 67.068 | 4.2695 | 2.2419 | .61430 | .25026 | .68380 |
| #2 | 15.517 | 67.325 | 4.3018 | 2.1932 | .61906 | .25753 | .68683 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | 1.9888 | .56525 | .69499 | .49743 | -.00149 | .67337 | .15674 |
| SDev | .0301 | .00049 | .00098 | .00708 | .00036 | .00057 | .00041 |
| %RSD | 1.5160 | .08708 | .14096 | 1.4242 | 24.183 | .08504 | .26233 |
| #1 | 1.9675 | .56560 | .69568 | .49242 | -.00123 | .67377 | .15704 |
| #2 | 2.0101 | .56490 | .69430 | .50244 | -.00174 | .67296 | .15645 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 13.219 | .03323 | .01538 | .72983 |
| SDev | .048 | .00159 | .00144 | .00313 |
| %RSD | .36302 | 4.7892 | 9.3669 | .42942 |
| #1 | 13.253 | .03211 | .01436 | .73204 |
| #2 | 13.185 | .03436 | .01640 | .72761 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-3 Operator: SW
Run Time: 09/17/04 11:16:31
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .07865 | .07888 | .00400 | -.00315 | -.00035 | 69.804 | 1.3737 |
| SDev | .00166 | .00218 | .01267 | .00011 | .00033 | .128 | .0009 |
| %RSD | 2.1158 | 2.7668 | 316.53 | 3.4547 | 94.047 | .18283 | .06598 |
| #1 | .07983 | .07734 | .01296 | -.00323 | -.00012 | 69.894 | 1.3744 |
| #2 | .07747 | .08043 | -.00496 | -.00307 | -.00058 | 69.714 | 1.3731 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00652 | 121.36 | -.00266 | .05597 | .09543 | .07480 | 131.02 |
| SDev | .00000 | .34 | .00023 | .00047 | .00009 | .00010 | .24 |
| %RSD | .00473 | .27898 | 8.5897 | .83603 | .09601 | .12670 | .18395 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .00652 | 121.12 | -.00250 | .05563 | .09537 | .07487 | 130.85 |
| #2 | .00652 | 121.60 | -.00282 | .05630 | .09550 | .07474 | 131.19 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 15.414 | 70.307 | 4.4180 | 1.2633 | .12531 | .00005 | .21917 |
| SDev | .037 | .126 | .0090 | .0041 | .00070 | .00194 | .00058 |
| %RSD | .24236 | .17928 | .20373 | .32276 | .55801 | 3851.8 | .26544 |
| #1 | 15.440 | 70.218 | 4.4116 | 1.2662 | .12482 | .00142 | .21959 |
| #2 | 15.387 | 70.396 | 4.4243 | 1.2604 | .12580 | -.00132 | .21876 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .28600 | .04506 | .07881 | -.00077 | -.00383 | .51615 | .14099 |
| SDev | .00118 | .00438 | .00090 | .00415 | .00347 | .00335 | .00005 |
| %RSD | .41218 | 9.7190 | 1.1441 | 539.90 | 90.763 | .64835 | .03642 |
| #1 | .28517 | .04815 | .07817 | .00216 | -.00137 | .51378 | .14103 |
| #2 | .28683 | .04196 | .07944 | -.00370 | -.00628 | .51851 | .14096 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 11.489 | .02567 | .00112 | .74409 |
| SDev | .027 | .00152 | .00048 | .00038 |
| %RSD | .23919 | 5.9189 | 42.902 | .05043 |
| #1 | 11.470 | .02459 | .00078 | .74435 |
| #2 | 11.509 | .02674 | .00146 | .74382 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-4 Operator: SW
Run Time: 09/17/04 11:19:02
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .06999 | .07668 | .00305 | .00173 | -.00101 | 101.14 | 1.6846 |
| SDev | .00660 | .00443 | .01261 | .01177 | .00028 | .64 | .0019 |
| %RSD | 9.4314 | 5.7835 | 413.00 | 680.54 | 27.610 | .63433 | .11382 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .07466 | .07354 | .01197 | -.00659 | -.00082 | 101.60 | 1.6860 |
| #2 | .06533 | .07981 | -.00586 | .01005 | -.00121 | 100.69 | 1.6832 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00886 | 168.92 | -.00390 | .08125 | .13342 | .10534 | 187.45 |
| SDev | .00004 | 1.29 | .00006 | .00066 | .00054 | .00055 | .97 |
| %RSD | .41940 | .76177 | 1.5946 | .80885 | .40228 | .52184 | .51572 |
| #1 | .00889 | 169.83 | -.00394 | .08172 | .13380 | .10572 | 188.13 |
| #2 | .00884 | 168.01 | -.00386 | .08079 | .13304 | .10495 | 186.76 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 15.442 | 93.864 | 4.7431 | 9.1950 | .18650 | .00119 | .30167 |
| SDev | .072 | .482 | .0195 | .0684 | .00128 | .00180 | .00078 |
| %RSD | .46943 | .51387 | .41127 | .74409 | .68854 | 150.97 | .25811 |
| #1 | 15.493 | 94.205 | 4.7569 | 9.2434 | .18741 | .00247 | .30222 |
| #2 | 15.391 | 93.523 | 4.7293 | 9.1466 | .18560 | -.00008 | .30112 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .24970 | .06600 | .07445 | .00217 | -.00245 | .50051 | .20602 |
| SDev | .00065 | .00266 | .00076 | .00365 | .00045 | .00007 | .00244 |
| %RSD | .26220 | 4.0260 | 1.0202 | 168.28 | 18.500 | .01317 | 1.1840 |
| #1 | .25016 | .06412 | .07391 | -.00041 | -.00213 | .50055 | .20775 |
| #2 | .24924 | .06788 | .07499 | .00475 | -.00277 | .50046 | .20430 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 9.9522 | .03202 | -.00041 | 1.0525 |
| SDev | .0169 | .00141 | .00168 | .0020 |
| %RSD | .17024 | 4.3938 | 411.24 | .18884 |
| #1 | 9.9642 | .03102 | .00078 | 1.0539 |
| #2 | 9.9402 | .03301 | -.00160 | 1.0511 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |

| Low | -.10000 | -.10000 | -.02000 | -.02000 |
|---|---|---|---|---|

Method: 28EL Sample Name: CCV Operator: SW
Run Time: 09/17/04 11:21:34
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .49166 | .48002 | .51113 | .49566 | .48720 | 49.055 | .48970 |
| SDev | .00290 | .00303 | .00485 | .00036 | .00039 | .039 | .00017 |
| %RSD | .59001 | .63213 | .94866 | .07221 | .07948 | .07973 | .03415 |
| #1 | .48961 | .48216 | .50770 | .49591 | .48747 | 49.028 | .48982 |
| #2 | .49371 | .47787 | .51456 | .49540 | .48693 | 49.083 | .48958 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | | | | .50000 | 50.500 | .50000 |
| Range | | | | | 10.000 | 10.000 | 10.000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .50485 | 50.114 | .48596 | .48306 | .47739 | .49149 | 19.918 |
| SDev | .00019 | .019 | .00034 | .00018 | .00121 | .00015 | .037 |
| %RSD | .03756 | .03707 | .06960 | .03780 | .25256 | .03084 | .18337 |
| #1 | .50498 | 50.100 | .48620 | .48319 | .47654 | .49160 | 19.944 |
| #2 | .50471 | 50.127 | .48572 | .48293 | .47824 | .49139 | 19.892 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | 50.500 | .50000 | .50000 | .50000 | .50000 | 20.500 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 19.696 | 49.076 | .47829 | 20.287 | .47731 | .52472 | .49395 |
| SDev | .003 | .019 | .00005 | .003 | .00050 | .00045 | .00000 |
| %RSD | .01590 | .03906 | .01081 | .01281 | .10413 | .08511 | .00041 |
| #1 | 19.694 | 49.062 | .47825 | 20.285 | .47766 | .52440 | .49395 |
| #2 | 19.699 | 49.089 | .47832 | 20.289 | .47696 | .52504 | .49395 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | 20.000 | 50.500 | .50000 | 20.500 | .50000 | .50000 | .50000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .48659 | .50892 | .48390 | .50081 | .50519 | .47644 | .99760 |
| SDev | .00144 | .00015 | .00106 | .00138 | .00088 | .00002 | .00099 |
| %RSD | .29659 | .03042 | .21862 | .27474 | .17355 | .00361 | .09963 |
| #1 | .48557 | .50903 | .48464 | .49983 | .50457 | .47645 | .99830 |
| #2 | .48761 | .50881 | .48315 | .50178 | .50581 | .47643 | .99690 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | .50000 | .50000 | .50000 | .50000 | .50000 | 1.0000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .27318 | .49093 | .48351 | .48379 |
| SDev | .00076 | .00094 | .00169 | .00026 |
| %RSD | .27762 | .19152 | .34872 | .05463 |
| #1 | .27264 | .49159 | .48470 | .48398 |
| #2 | .27372 | .49026 | .48232 | .48361 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .25000 | .50000 | .50000 | .50000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 |

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Method: 28EL Sample Name: CCB Operator: SW
Run Time: 09/17/04 11:24:07
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | -.00237 | -.00001 | .00652 | .00025 | .00081 | .03907 | -.00011 |
| SDev | .00099 | .00038 | .00214 | .00384 | .00017 | .00234 | .00001 |
| %RSD | 42.002 | 6282.9 | 32.831 | 1558.5 | 20.969 | 5.9908 | 11.290 |
| #1 | -.00166 | .00026 | .00500 | .00296 | .00093 | .04072 | -.00010 |
| #2 | -.00307 | -.00027 | .00803 | -.00247 | .00069 | .03741 | -.00011 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | .01000 | .20000 | .10000 |
| Low | | | | | -.01000 | -.20000 | -.10000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00008 | .04468 | -.00042 | .00018 | .00036 | -.00007 | .03956 |
| SDev | .00002 | .00022 | .00007 | .00004 | .00009 | .00017 | .00266 |
| %RSD | 23.097 | .49099 | 15.714 | 19.744 | 25.448 | 239.87 | 6.7241 |
| #1 | .00009 | .04484 | -.00037 | .00016 | .00042 | .00005 | .04145 |
| #2 | .00007 | .04453 | -.00046 | .00021 | .00030 | -.00019 | .03768 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .00500 | 1.0000 | .00500 | .01000 | .01000 | .01000 | .10000 |
| Low | -.00500 | -1.0000 | -.00500 | -.01000 | -.01000 | -.01000 | -.10000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .15914 | .01647 | .00032 | .08371 | .00082 | -.00016 | -.00011 |
| SDev | .01102 | .00230 | .00000 | .00012 | .00004 | .00144 | .00019 |
| %RSD | 6.9268 | 13.944 | .00000 | .14029 | 5.2092 | 883.87 | 178.42 |
| #1 | .15134 | .01810 | .00032 | .08380 | .00079 | .00086 | .00003 |
| #2 | .16693 | .01485 | .00032 | .08363 | .00085 | -.00118 | -.00025 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1.0000 | 1.0000 | .01000 | 1.0000 | .02000 | .02000 | .01000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Low | -1.0000 | -1.0000 | -.01000 | -1.0000 | -.02000 | -.02000 | -.01000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | -.00198 | .00154 | -.00079 | .00233 | .00456 | .00022 | .00294 |
| SDev | .00052 | .00032 | .00058 | .00185 | .00089 | .00003 | .00071 |
| %RSD | 26.378 | 20.483 | 73.662 | 79.233 | 19.420 | 12.492 | 24.108 |
| #1 | -.00235 | .00177 | -.00038 | .00364 | .00518 | .00024 | .00344 |
| #2 | -.00161 | .00132 | -.00120 | .00103 | .00393 | .00020 | .00244 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .02000 | .01000 | .00300 | .00500 | .01000 | .01000 | .10000 |
| Low | -.02000 | -.01000 | -.00300 | -.00500 | -.01000 | -.01000 | -.10000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .00074 | -.00098 | .00112 | .00018 |
| SDev | .00001 | .00272 | .00000 | .00001 |
| %RSD | .77187 | 277.44 | .00000 | 6.4141 |
| #1 | .00074 | -.00290 | .00112 | .00017 |
| #2 | .00074 | .00094 | .00112 | .00019 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .05000 | .05000 | .01000 | .01000 |
| Low | -.05000 | -.05000 | -.01000 | -.01000 |

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Method: 28EL Sample Name: 0409018-5 Operator: SW
Run Time: 09/17/04 11:26:39
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .06793 | .07269 | .00667 | .00156 | -.00051 | 107.04 | 1.3111 |
| SDev | .00035 | .00297 | .00225 | .00560 | .00073 | .23 | .0078 |
| %RSD | .51340 | 4.0906 | 33.779 | 358.31 | 141.18 | .21927 | .59680 |
| #1 | .06818 | .07058 | .00827 | -.00240 | -.00000 | 106.88 | 1.3056 |
| #2 | .06769 | .07479 | .00508 | .00552 | -.00103 | 107.21 | 1.3167 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00943 | 98.617 | -.00480 | .08583 | .14004 | .10484 | H202.11 |
| SDev | .00002 | .012 | .00009 | .00018 | .00011 | .00049 | .44 |
| %RSD | .19608 | .01239 | 1.9221 | .21601 | .07478 | .47007 | .21843 |
| #1 | .00941 | 98.625 | -.00473 | .08596 | .13996 | .10449 | H201.80 |
| #2 | .00944 | 98.608 | -.00486 | .08570 | .14011 | .10519 | H202.42 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC High |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 15.600 | 83.538 | 3.6432 | 11.443 | .20307 | .00689 | .41633 |
| SDev | .058 | .066 | .0076 | .028 | .00011 | .00214 | .00058 |
| %RSD | .37115 | .07943 | .20885 | .24513 | .05160 | 31.098 | .14001 |
| #1 | 15.559 | 83.491 | 3.6378 | 11.423 | .20315 | .00841 | .41591 |
| #2 | 15.641 | 83.585 | 3.6485 | 11.463 | .20300 | .00538 | .41674 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .26488 | .08927 | .07110 | .00326 | -.00344 | .50787 | .21105 |
| SDev | .00065 | .00112 | .00187 | .00299 | .00210 | .00318 | .00137 |
| %RSD | .24719 | 1.2559 | 2.6258 | 91.460 | 61.050 | .62699 | .65132 |
| #1 | .26535 | .09006 | .06978 | .00115 | -.00493 | .50562 | .21008 |
| #2 | .26442 | .08847 | .07242 | .00538 | -.00196 | .51012 | .21203 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 9.3288 | .03352 | .00129 | .80215 |
| SDev | .0308 | .00083 | .00024 | .00441 |
| %RSD | .33050 | 2.4667 | 18.626 | .54912 |
| #1 | 9.3070 | .03410 | .00112 | .79904 |
| #2 | 9.3506 | .03293 | .00146 | .80527 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-6 Operator: SW
Run Time: 09/17/04 11:29:10
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .07326 | .07073 | .00981 | -.00022 | -.00047 | 80.994 | 4.4680 |
| SDev | .00229 | .00036 | .00159 | .00053 | .00003 | .676 | .0311 |
| %RSD | 3.1300 | .50303 | 16.186 | 239.07 | 7.0579 | .83477 | .69505 |
| #1 | .07488 | .07098 | .00868 | -.00059 | -.00049 | 80.516 | 4.4461 |
| #2 | .07164 | .07048 | .01093 | .00015 | -.00044 | 81.472 | 4.4900 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00746 | H669.97 | -.00144 | .07225 | .13557 | .08134 | 157.72 |
| SDev | .00000 | 1.71 | .00003 | .00059 | .00047 | .00070 | .33 |
| %RSD | .00415 | .25494 | 1.9748 | .82240 | .34761 | .86219 | .21144 |
| #1 | .00746 | H671.18 | -.00142 | .07183 | .13524 | .08085 | 157.48 |
| #2 | .00746 | H668.77 | -.00146 | .07267 | .13591 | .08184 | 157.95 |
| Errors | LC Pass | LC High | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 12.960 | 280.02 | H15.220 | 5.3683 | .14789 | .00564 | .24772 |
| SDev | .104 | .93 | .013 | .0557 | .00065 | .00666 | .00058 |
| %RSD | .80169 | .33280 | .08825 | 1.0372 | .44243 | 118.15 | .23556 |
| #1 | 12.886 | 279.36 | H15.211 | 5.3290 | .14836 | .01035 | .24731 |
| #2 | 13.033 | 280.68 | H15.230 | 5.4077 | .14743 | .00093 | .24814 |
| Errors | LC Pass | LC Pass | LC High | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .18842 | .04481 | .07157 | .00312 | -.00300 | .53859 | .16723 |
| SDev | .00013 | .00298 | .00100 | .00088 | .00102 | .00019 | .00170 |
| %RSD | .06946 | 6.6376 | 1.3985 | 28.234 | 34.104 | .03616 | 1.0149 |
| #1 | .18851 | .04692 | .07228 | .00250 | -.00227 | .53845 | .16603 |
| #2 | .18833 | .04271 | .07086 | .00374 | -.00372 | .53872 | .16843 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 8.3428 | .02579 | .00010 | 4.1842 |
| SDev | .0509 | .00075 | .00096 | .0223 |
| %RSD | .61046 | 2.9138 | 954.33 | .53321 |
| #1 | 8.3068 | .02526 | -.00058 | 4.1684 |
| #2 | 8.3788 | .02632 | .00078 | 4.1999 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

Method: 28EL Sample Name: 0409018-7 Operator: SW
Run Time: 09/17/04 11:31:42
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .08172 | .08606 | .00944 | -.00039 | -.00089 | 100.14 | 1.9839 |
| SDev | .00583 | .00356 | .02929 | .00346 | .00040 | .34 | .0043 |
| %RSD | 7.1277 | 4.1315 | 310.39 | 882.41 | 44.615 | .33521 | .21741 |
| #1 | .07760 | .08858 | -.01128 | .00206 | -.00117 | 100.38 | 1.9869 |
| #2 | .08584 | .08355 | .03015 | -.00284 | -.00061 | 99.903 | 1.9809 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00898 | 215.96 | -.00384 | .08281 | .16897 | .12161 | 188.51 |
| SDev | .00004 | .35 | .00025 | .00040 | .00018 | .00044 | .27 |
| %RSD | .41746 | .16280 | 6.5346 | .48507 | .10847 | .35849 | .14159 |
| #1 | .00901 | 216.21 | -.00401 | .08310 | .16884 | .12191 | 188.70 |
| #2 | .00895 | 215.71 | -.00366 | .08253 | .16910 | .12130 | 188.32 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 15.396 | 109.45 | 5.9512 | 15.856 | .19597 | .00330 | .33476 |
| SDev | .057 | .22 | .0069 | .067 | .00031 | .00436 | .00019 |
| %RSD | .36810 | .19905 | .11662 | .42284 | .15972 | 132.17 | .05808 |
| #1 | 15.436 | 109.61 | 5.9562 | 15.904 | .19575 | .00022 | .33490 |
| #2 | 15.356 | 109.30 | 5.9463 | 15.809 | .19620 | .00639 | .33463 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .21582 | .05522 | .08462 | .00288 | -.00491 | .45115 | .21768 |
| SDev | .00013 | .00306 | .00043 | .00744 | .00170 | .00061 | .00187 |
| %RSD | .06066 | 5.5418 | .51052 | 258.40 | 34.710 | .13572 | .86068 |
| #1 | .21591 | .05739 | .08492 | -.00238 | -.00611 | .45158 | .21900 |
| #2 | .21572 | .05306 | .08431 | .00814 | -.00370 | .45072 | .21635 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|

| Units | ppm | ppm | ppm | ppm |
|---|---|---|---|---|
| Avge | 9.5266 | .03088 | .00129 | 1.2499 |
| SDev | .0202 | .00018 | .00024 | .0023 |
| %RSD | .21255 | .59660 | 18.626 | .18650 |
| #1 | 9.5409 | .03075 | .00146 | 1.2516 |
| #2 | 9.5123 | .03101 | .00112 | 1.2483 |
| Errors | [illegible] | [illegible] | [illegible] | [illegible] |

Number: 0409018 Name: 0409018 ----------Operator:-SW--------

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|

Printer jammed -- please refer to data summary for affected results
SW 9/20/04

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .09397 | .09205 | .01639 | .00120 | .00011 | 73.788 | 1.4169 |
| SDev | .00254 | .00260 | .00139 | .00445 | .00033 | .221 | .0113 |
| %RSD | 2.7079 | 2.8232 | 8.4888 | 370.84 | 288.27 | .29961 | .79710 |
| #1 | .09577 | .09022 | .01738 | .00435 | -.00012 | 73.944 | 1.4249 |
| #2 | .09217 | .09389 | .01541 | -.00195 | .00034 | 73.632 | 1.4089 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00656 | 110.14 | -.00254 | .05768 | .10382 | .07002 | 139.14 |
| SDev | .00002 | .94 | .00041 | .00139 | .00127 | .00000 | .75 |
| %RSD | .28178 | .84960 | 16.257 | 2.4104 | 1.2230 | .00000 | .53791 |
| #1 | .00655 | 109.48 | -.00283 | .05670 | .10292 | .07002 | 138.61 |
| #2 | .00657 | 110.80 | -.00225 | .05866 | .10472 | .07002 | 139.67 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 15.081 | 59.548 | 3.5634 | 1.2717 | .12913 | .00192 | .21176 |
| SDev | .140 | .242 | .0144 | .0138 | .00063 | .00185 | .00058 |
| %RSD | .92888 | .40633 | .40288 | 1.0878 | .48501 | 96.188 | .27540 |
| #1 | 15.180 | 59.377 | 3.5533 | 1.2815 | .12869 | .00322 | .21135 |
| #2 | 14.982 | 59.719 | 3.5736 | 1.2619 | .12957 | .00061 | .21217 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | Zn | As | Pb | Se | Tl | Ti | B |



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .25479 | .04636 | .09269 | .00626 | -.00392 | .56094 | .13378 |
| SDev | .00314 | .00158 | .00089 | .00344 | .00160 | .00449 | .00074 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| %RSD | 1.2335 | 3.4110 | .95586 | 54.865 | 40.798 | .79989 | .54984 |
| #1 | .25257 | .04524 | .09207 | .00869 | -.00279 | .56411 | .13430 |
| #2 | .25701 | .04748 | .09332 | .00383 | -.00505 | .55777 | .13326 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 10.661 | .03182 | -.00007 | .63140 |
| SDev | .003 | .00176 | .00072 | .00375 |
| %RSD | .02393 | 5.5241 | 1041.8 | .59372 |
| #1 | 10.660 | .03058 | -.00058 | .63405 |
| #2 | 10.663 | .03306 | .00044 | .62875 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

Method: 28EL Sample Name: 0409018-9 Operator: SW
Run Time: 09/17/04 11:36:44
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .08123 | .07960 | .00542 | .00025 | -.00089 | 94.684 | 4.5805 |
| SDev | .00555 | .00268 | .00991 | .00077 | .00043 | .456 | .0273 |
| %RSD | 6.8378 | 3.3719 | 182.72 | 311.97 | 48.333 | .48180 | .59665 |
| #1 | .08515 | .07770 | .01243 | -.00030 | -.00058 | 94.362 | 4.5612 |
| #2 | .07730 | .08150 | -.00158 | .00079 | -.00119 | 95.007 | 4.5998 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00865 | 278.88 | -.00317 | .08331 | .12241 | .06864 | 170.59 |
| SDev | .00002 | .62 | .00019 | .00048 | .00029 | .00036 | .03 |
| %RSD | .21247 | .22302 | 6.0774 | .57548 | .23525 | .52471 | .01612 |
| #1 | .00864 | 279.32 | -.00331 | .08297 | .12262 | .06838 | 170.61 |
| #2 | .00866 | 278.44 | -.00304 | .08365 | .12221 | .06889 | 170.57 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|



| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
|---|---|---|---|---|---|---|---|
| Avge | 11.563 | 90.033 | 4.4488 | 2.5370 | .17880 | .00321 | .17704 |
| SDev | .072 | .034 | .0013 | .0168 | .00085 | .00016 | .00078 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| %RSD | .62372 | .03812 | .02898 | .66110 | .47587 | 4.8397 | .43952 |
| #1 | 11.512 | 90.009 | 4.4478 | 2.5252 | .17819 | .00332 | .17649 |
| #2 | 11.614 | 90.057 | 4.4497 | 2.5489 | .17940 | .00310 | .17759 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .25988 | .05668 | .08014 | .00197 | -.00325 | .47932 | .12139 |
| SDev | .00013 | .00167 | .00006 | .00279 | .00221 | .00244 | .00010 |
| %RSD | .05039 | 2.9544 | .07401 | 141.39 | 67.994 | .50956 | .08447 |
| #1 | .25998 | .05786 | .08018 | .00394 | -.00169 | .47760 | .12132 |
| #2 | .25979 | .05549 | .08010 | .00000 | -.00482 | .48105 | .12146 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 9.2761 | .03329 | .00044 | 1.6667 |
| SDev | .0063 | .00076 | .00144 | .0084 |
| %RSD | .06812 | 2.2945 | 327.27 | .50121 |
| #1 | 9.2716 | .03275 | -.00058 | 1.6608 |
| #2 | 9.2806 | .03383 | .00146 | 1.6727 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

Method: 28EL Sample Name: 0409018-10 Operator: SW
Run Time: 09/17/04 11:40:03
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .07523 | .07725 | .01994 | -.00277 | -.00092 | 112.28 | 4.3802 |
| SDev | .00052 | .00305 | .00027 | .00109 | .00002 | .82 | .0162 |
| %RSD | .68743 | 3.9463 | 1.3656 | 39.445 | 1.7884 | .73273 | .36931 |
| #1 | .07487 | .07509 | .01975 | -.00200 | -.00091 | 111.69 | 4.3687 |
| #2 | .07560 | .07940 | .02014 | -.00354 | -.00093 | 112.86 | 4.3916 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01037 | 412.40 | -.00611 | .09321 | .16906 | .11232 | H275.82 |
| SDev | .00002 | .09 | .00056 | .00022 | .00012 | .00076 | .35 |
| %RSD | .18617 | .02192 | 9.1735 | .24154 | .06969 | .67503 | .12692 |
| #1 | .01036 | 412.47 | -.00572 | .09305 | .16914 | .11178 | H275.57 |
| #2 | .01038 | 412.34 | -.00651 | .09337 | .16897 | .11285 | H276.07 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC High |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 13.062 | 71.995 | 3.2415 | 2.3534 | .21116 | .00241 | .29110 |
| SDev | .075 | .197 | .0027 | .0144 | .00063 | .00072 | .00097 |
| %RSD | .57488 | .27408 | .08204 | .61360 | .29729 | 29.781 | .33337 |
| #1 | 13.009 | 71.855 | 3.2396 | 2.3432 | .21072 | .00190 | .29179 |
| #2 | 13.115 | 72.134 | 3.2434 | 2.3636 | .21161 | .00292 | .29042 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | Zn | As | Pb | Se | Tl | Ti | B |
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .27368 | .24560 | .07658 | .00479 | -.00391 | .60043 | .15580 |
| SDev | .00052 | .00178 | .00221 | .00064 | .00141 | .00033 | .00188 |
| %RSD | .19142 | .72369 | 2.8801 | 13.305 | 36.040 | .05470 | 1.2096 |
| #1 | .27405 | .24434 | .07502 | .00525 | -.00490 | .60067 | .15447 |
| #2 | .27331 | .24685 | .07814 | .00434 | -.00291 | .60020 | .15713 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| | | | | |
|---|---|---|---|---|
| Elem | Si | Sn | Mo | Sr |
| Units | ppm | ppm | ppm | ppm |
| Avge | 7.7116 | .03230 | -.00109 | .78793 |
| SDev | .0314 | .00178 | .00024 | .00280 |
| %RSD | .40782 | 5.5124 | 22.072 | .35497 |
| #1 | 7.6894 | .03104 | -.00126 | .78595 |
| #2 | 7.7338 | .03356 | -.00092 | .78991 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-11 Operator: SW
Run Time: 09/17/04 11:42:34
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .20905 | .20143 | .01688 | -.00204 | -.00035 | 90.612 | 1.5699 |
| SDev | .00008 | .00075 | .00886 | .00071 | .00026 | .355 | .0037 |
| %RSD | .03911 | .37047 | 52.507 | 34.907 | 75.238 | .39228 | .23541 |
| #1 | .20911 | .20090 | .02314 | -.00255 | -.00054 | 90.863 | 1.5725 |
| #2 | .20899 | .20196 | .01061 | -.00154 | -.00016 | 90.361 | 1.5673 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00839 | 265.64 | -.00249 | .06937 | .11521 | .08601 | 180.98 |
| SDev | .00004 | .82 | .00006 | .00014 | .00110 | .00013 | .34 |
| %RSD | .44286 | .30964 | 2.2237 | .20782 | .95436 | .15427 | .18850 |
| #1 | .00837 | 265.06 | -.00246 | .06927 | .11443 | .08610 | 180.74 |
| #2 | .00842 | 266.22 | -.00253 | .06947 | .11599 | .08591 | 181.22 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 16.488 | 74.522 | 4.1662 | 1.1926 | .14853 | .00526 | .23441 |
| SDev | .090 | .051 | .0086 | .0075 | .00028 | .00167 | .00078 |
| %RSD | .54346 | .06850 | .20684 | .62998 | .19058 | 31.763 | .33089 |
| #1 | 16.552 | 74.486 | 4.1601 | 1.1980 | .14833 | .00645 | .23386 |
| #2 | 16.425 | 74.558 | 4.1723 | 1.1873 | .14873 | .00408 | .23496 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .35483 | .12777 | .20397 | .00426 | -.00021 | .48643 | .12505 |
| SDev | .00210 | .00029 | .00047 | .00248 | .00058 | .00026 | .00019 |
| %RSD | .59095 | .23046 | .23068 | 58.140 | 273.86 | .05266 | .15037 |
| #1 | .35335 | .12756 | .20364 | .00601 | .00020 | .48625 | .12492 |
| #2 | .35632 | .12798 | .20430 | .00251 | -.00062 | .48661 | .12518 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 8.3157 | .02544 | -.00075 | .61029 |
| SDev | .0093 | .00309 | .00072 | .00108 |
| %RSD | .11133 | 12.163 | 96.265 | .17623 |

| | | | | |
|---|---|---|---|---|
| #1 | 8.3091 | .02763 | -.00024 | .61105 |
| #2 | 8.3222 | .02325 | -.00126 | .60953 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-12 Operator: SW
Run Time: 09/17/04 11:45:05
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .07508 | .07269 | .02414 | -.00319 | -.00006 | 90.462 | 4.7027 |
| SDev | .00337 | .00098 | .00959 | .00514 | .00032 | .942 | .0222 |
| %RSD | 4.4882 | 1.3494 | 39.739 | 160.85 | 577.42 | 1.0412 | .47188 |
| #1 | .07747 | .07199 | .03092 | -.00682 | .00017 | 89.796 | 4.6870 |
| #2 | .07270 | .07338 | .01736 | .00044 | -.00028 | 91.128 | 4.7184 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00744 | 263.23 | -.00349 | .07886 | .12331 | .08751 | 164.00 |
| SDev | .00000 | .72 | .00011 | .00004 | .00041 | .00063 | .68 |
| %RSD | .00138 | .27191 | 3.2078 | .05630 | .32909 | .71480 | .41398 |
| #1 | .00744 | 262.72 | -.00357 | .07883 | .12302 | .08707 | 163.52 |
| #2 | .00744 | 263.74 | -.00342 | .07889 | .12360 | .08795 | 164.48 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 10.925 | 76.911 | 3.4493 | 4.9235 | .17970 | .00443 | .17415 |
| SDev | .090 | .409 | .0101 | .0529 | .00034 | .00034 | .00019 |
| %RSD | .81945 | .53156 | .29148 | 1.0743 | .19089 | 7.7822 | .11128 |
| #1 | 10.862 | 76.622 | 3.4422 | 4.8861 | .17994 | .00468 | .17402 |
| #2 | 10.988 | 77.200 | 3.4564 | 4.9609 | .17945 | .00419 | .17429 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .21322 | .04754 | .07348 | .00591 | -.00194 | .45286 | .12657 |
| SDev | .00039 | .00236 | .00047 | .00023 | .00547 | .00009 | .00111 |
| %RSD | .18418 | 4.9759 | .63681 | 3.9063 | 282.15 | .01869 | .87799 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .21295 | .04586 | .07382 | .00575 | -.00581 | .45292 | .12579 |
| #2 | .21350 | .04921 | .07315 | .00607 | .00193 | .45280 | .12736 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 7.2937 | .02738 | -.00075 | .94027 |
| SDev | .0170 | .00084 | .00024 | .00383 |
| %RSD | .23347 | 3.0822 | 32.088 | .40745 |
| #1 | 7.2816 | .02678 | -.00058 | .93756 |
| #2 | 7.3057 | .02797 | -.00092 | .94298 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-13 Operator: SW
Run Time: 09/17/04 11:47:36
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .13927 | .13375 | .01068 | .00019 | -.00170 | 71.261 | 1.5552 |
| SDev | .00032 | .00048 | .00457 | .00357 | .00010 | .114 | .0006 |
| %RSD | .22618 | .35771 | 42.819 | 1837.4 | 5.8087 | .15983 | .03661 |
| #1 | .13949 | .13408 | .01392 | .00272 | -.00163 | 71.180 | 1.5556 |
| #2 | .13904 | .13341 | .00745 | -.00233 | -.00177 | 71.342 | 1.5548 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01000 | 142.65 | -.00321 | .05687 | .09416 | .08684 | 169.53 |
| SDev | .00004 | .29 | .00006 | .00051 | .00024 | .00013 | .23 |
| %RSD | .37796 | .20577 | 1.9145 | .89603 | .25020 | .15279 | .13316 |
| #1 | .00997 | 142.44 | -.00325 | .05723 | .09433 | .08693 | 169.37 |
| #2 | .01003 | 142.85 | -.00317 | .05651 | .09400 | .08675 | 169.69 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 15.128 | 39.817 | 3.3006 | .82025 | .11721 | .00377 | .16496 |
| SDev | .025 | .100 | .0045 | .00253 | .00140 | .00496 | .00039 |
| %RSD | .16339 | .25185 | .13763 | .30835 | 1.1919 | 131.45 | .23584 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | 15.111 | 39.746 | 3.2974 | .81846 | .11820 | .00727 | .16524 |
| #2 | 15.146 | 39.888 | 3.3038 | .82203 | .11622 | .00027 | .16469 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .40118 | .07610 | .13558 | .00369 | -.00314 | .57836 | .11566 |
| SDev | .00184 | .00191 | .00042 | .00390 | .00116 | .00073 | .00092 |
| %RSD | .45751 | 2.5099 | .31272 | 105.88 | 36.892 | .12716 | .79752 |
| #1 | .39988 | .07475 | .13588 | .00645 | -.00396 | .57888 | .11631 |
| #2 | .40247 | .07745 | .13529 | .00093 | -.00232 | .57784 | .11501 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 8.4032 | .03191 | .00299 | .34923 |
| SDev | .0075 | .00197 | .00072 | .00003 |
| %RSD | .08969 | 6.1854 | 24.116 | .00716 |
| #1 | 8.4085 | .03331 | .00350 | .34924 |
| #2 | 8.3978 | .03052 | .00248 | .34921 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-14 Operator: SW
Run Time: 09/17/04 11:50:07
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .08569 | .08446 | .00585 | -.00194 | -.00070 | 91.637 | 2.4546 |
| SDev | .00046 | .00207 | .00040 | .00220 | .00076 | .494 | .0122 |
| %RSD | .54021 | 2.4492 | 6.9236 | 113.11 | 108.29 | .53877 | .49704 |
| #1 | .08536 | .08592 | .00557 | -.00039 | -.00016 | 91.287 | 2.4459 |
| #2 | .08601 | .08300 | .00614 | -.00349 | -.00124 | 91.986 | 2.4632 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00876 | 367.72 | -.00414 | .08009 | .12996 | .06628 | H218.58 |
| SDev | .00000 | .72 | .00000 | .00019 | .00111 | .00010 | .10 |
| %RSD | .00232 | .19657 | .06844 | .23932 | .85619 | .14300 | .04473 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .00876 | 368.23 | -.00414 | .07996 | .13074 | .06635 | H218.51 |
| #2 | .00876 | 367.21 | -.00414 | .08023 | .12917 | .06621 | H218.65 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC High |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 12.631 | 107.98 | 5.5852 | 5.3438 | .17069 | .00479 | .19350 |
| SDev | .098 | .11 | .0030 | .0439 | .00061 | .00081 | .00038 |
| %RSD | .77824 | .10635 | .05448 | .82119 | .35826 | 16.841 | .19913 |
| #1 | 12.561 | 107.90 | 5.5831 | 5.3128 | .17026 | .00536 | .19323 |
| #2 | 12.700 | 108.06 | 5.5874 | 5.3748 | .17113 | .00422 | .19378 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .20212 | .12367 | .08487 | .00065 | -.00325 | .50612 | .16931 |
| SDev | .00196 | .00255 | .00123 | .00133 | .00334 | .00278 | .00108 |
| %RSD | .97140 | 2.0652 | 1.4441 | 203.30 | 102.64 | .54951 | .63799 |
| #1 | .20351 | .12186 | .08573 | .00159 | -.00561 | .50808 | .16855 |
| #2 | .20073 | .12547 | .08400 | -.00029 | -.00089 | .50415 | .17008 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 10.722 | .02946 | -.00092 | 1.8120 |
| SDev | .057 | .00058 | .00240 | .0075 |
| %RSD | .53323 | 1.9624 | 261.54 | .41546 |
| #1 | 10.682 | .02987 | .00078 | 1.8067 |
| #2 | 10.762 | .02905 | -.00262 | 1.8174 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: CCV Operator: SW
Run Time: 09/17/04 11:52:39
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .48994 | .47634 | .52658 | .49599 | .48603 | 49.265 | .48862 |
| SDev | .00207 | .00058 | .02199 | .00159 | .00018 | .031 | .00050 |
| %RSD | .42207 | .12083 | 4.1751 | .32070 | .03810 | .06273 | .10268 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .48848 | .47675 | .51104 | .49486 | .48590 | 49.286 | .48897 |
| #2 | .49141 | .47593 | .54213 | .49711 | .48616 | 49.243 | .48826 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | | | | .50000 | 50.500 | .50000 |
| Range | | | | | 10.000 | 10.000 | 10.000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .50056 | 49.313 | .47856 | .48191 | .47407 | .49470 | 19.717 |
| SDev | .00102 | .138 | .00105 | .00088 | .00128 | .00085 | .069 |
| %RSD | .20461 | .27937 | .21982 | .18183 | .27092 | .17235 | .34805 |
| #1 | .49983 | 49.216 | .47781 | .48129 | .47317 | .49530 | 19.668 |
| #2 | .50128 | 49.411 | .47930 | .48252 | .47498 | .49409 | 19.766 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | 50.500 | .50000 | .50000 | .50000 | .50000 | 20.500 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 19.864 | 48.977 | .47451 | 20.482 | .46969 | .51725 | .49148 |
| SDev | .061 | .076 | .00082 | .063 | .00077 | .00128 | .00077 |
| %RSD | .30733 | .15459 | .17220 | .30785 | .16370 | .24852 | .15755 |
| #1 | 19.907 | 48.924 | .47393 | 20.526 | .46915 | .51634 | .49203 |
| #2 | 19.820 | 49.031 | .47509 | 20.437 | .47023 | .51816 | .49094 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | 20.000 | 50.500 | .50000 | 20.500 | .50000 | .50000 | .50000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .48148 | .49967 | .48087 | .50617 | .50702 | .47408 | .99342 |
| SDev | .00184 | .00095 | .00030 | .00838 | .00532 | .00001 | .00150 |
| %RSD | .38146 | .19045 | .06337 | 1.6560 | 1.0502 | .00291 | .15094 |
| #1 | .48019 | .49900 | .48065 | .50025 | .50325 | .47407 | .99236 |
| #2 | .48278 | .50035 | .48108 | .51210 | .51078 | .47409 | .99448 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | .50000 | .50000 | .50000 | .50000 | .50000 | 1.0000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | Q.28009 | .48852 | .48590 | .48145 |
| SDev | .00428 | .00132 | .00217 | .00018 |
| %RSD | 1.5262 | .26942 | .44616 | .03659 |
| #1 | Q.28311 | .48759 | .48436 | .48158 |
| #2 | Q.27706 | .48945 | .48743 | .48133 |
| Errors | QC Fail | QC Pass | QC Pass | QC Pass |
| Value | .25000 | .50000 | .50000 | .50000 |

| Range | 10.000 | 10.000 | 10.000 | 10.000 |
|---|---|---|---|---|

Method: 28EL Sample Name: CCB Operator: SW
Run Time: 09/17/04 11:55:11
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | -.00146 | .00030 | .00405 | .00159 | .00028 | .03820 | .00005 |
| SDev | .00128 | .00271 | .00190 | .00138 | .00018 | .00110 | .00000 |
| %RSD | 87.595 | 907.27 | 47.005 | 86.531 | 66.020 | 2.8876 | .00000 |
| #1 | -.00056 | -.00162 | .00270 | .00257 | .00015 | .03742 | .00005 |
| #2 | -.00237 | .00221 | .00539 | .00062 | .00041 | .03898 | .00005 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | .01000 | .20000 | .10000 |
| Low | | | | | -.01000 | -.20000 | -.10000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00009 | .06513 | -.00052 | -.00015 | -.00022 | -.00000 | .04007 |
| SDev | .00000 | .00044 | .00007 | .00000 | .00005 | .00000 | .00466 |
| %RSD | .00039 | .68140 | 12.764 | .03340 | 23.474 | .00000 | 11.626 |
| #1 | .00009 | .06544 | -.00047 | -.00015 | -.00026 | -.00000 | .03677 |
| #2 | .00009 | .06481 | -.00056 | -.00015 | -.00019 | -.00000 | .04336 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .00500 | 1.0000 | .00500 | .01000 | .01000 | .01000 | .10000 |
| Low | -.00500 | -1.0000 | -.00500 | -.01000 | -.01000 | -.01000 | -.10000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .08768 | .02296 | .00054 | .08888 | .00043 | -.00083 | -.00052 |
| SDev | .02137 | .00178 | .00000 | .00026 | .00039 | .00107 | .00000 |
| %RSD | 24.373 | 7.7557 | .00000 | .29678 | 92.061 | 128.92 | .16604 |
| #1 | .07257 | .02170 | .00054 | .08869 | .00070 | -.00007 | -.00052 |
| #2 | .10280 | .02422 | .00054 | .08907 | .00015 | -.00158 | -.00052 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1.0000 | 1.0000 | .01000 | 1.0000 | .02000 | .02000 | .01000 |
| Low | -1.0000 | -1.0000 | -.01000 | -1.0000 | -.02000 | -.02000 | -.01000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | -.00254 | .00006 | -.00029 | .00241 | .00065 | .00021 | .00282 |
| SDev | .00052 | .00167 | .00138 | .00029 | .00022 | .00003 | .00021 |
| %RSD | 20.611 | 2726.2 | 479.07 | 11.901 | 33.854 | 13.236 | 7.5875 |
| #1 | -.00291 | -.00112 | -.00126 | .00261 | .00081 | .00019 | .00267 |
| #2 | -.00217 | .00124 | .00069 | .00221 | .00049 | .00023 | .00297 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .02000 | .01000 | .00300 | .00500 | .01000 | .01000 | .10000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Low | -.02000 | -.01000 | -.00300 | -.00500 | -.01000 | -.01000 | -.10000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .00179 | -.00085 | .00095 | .00028 |
| SDev | .00019 | .00047 | .00072 | .00000 |
| %RSD | 10.809 | 55.299 | 75.860 | .00000 |
| #1 | .00165 | -.00052 | .00146 | .00028 |
| #2 | .00192 | -.00118 | .00044 | .00028 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .05000 | .05000 | .01000 | .01000 |
| Low | -.05000 | -.05000 | -.01000 | -.01000 |

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Method: 28EL Sample Name: 0409018-14D Operator: SW
Run Time: 09/17/04 11:57:43
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .08377 | .08390 | .01659 | -.00187 | .00002 | 92.479 | 3.7206 |
| SDev | .00283 | .00120 | .01274 | .00003 | .00003 | .154 | .0100 |
| %RSD | 3.3817 | 1.4315 | 76.784 | 1.8159 | 147.48 | .16623 | .26889 |
| #1 | .08176 | .08305 | .00758 | -.00184 | -.00000 | 92.588 | 3.7277 |
| #2 | .08577 | .08475 | .02560 | -.00189 | .00004 | 92.371 | 3.7135 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00887 | 364.07 | -.00416 | .07917 | .13466 | .06616 | H223.85 |
| SDev | .00000 | .61 | .00034 | .00044 | .00059 | .00026 | .12 |
| %RSD | .00233 | .16641 | 8.1745 | .55141 | .43746 | .40113 | .05237 |
| #1 | .00886 | 363.64 | -.00392 | .07948 | .13424 | .06635 | H223.77 |
| #2 | .00887 | 364.49 | -.00440 | .07886 | .13507 | .06597 | H223.93 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC High |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 12.700 | 103.98 | 5.5713 | 5.1276 | .17374 | .00424 | .19900 |
| SDev | .045 | .05 | .0019 | .0172 | .00048 | .00131 | .00039 |
| %RSD | .35283 | .04735 | .03449 | .33543 | .27498 | 30.934 | .19567 |
| #1 | 12.732 | 103.95 | 5.5699 | 5.1398 | .17408 | .00517 | .19927 |
| #2 | 12.668 | 104.01 | 5.5726 | 5.1154 | .17340 | .00332 | .19872 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .19906 | .12476 | .08386 | .00428 | -.00079 | .50692 | .17004 |
| SDev | .00078 | .00109 | .00174 | .00422 | .00020 | .00263 | .00033 |
| %RSD | .39451 | .87188 | 2.0802 | 98.567 | 24.937 | .51882 | .19159 |
| #1 | .19851 | .12399 | .08262 | .00130 | -.00065 | .50878 | .16981 |
| #2 | .19962 | .12553 | .08509 | .00727 | -.00093 | .50506 | .17027 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 9.7308 | .02953 | .00010 | 1.5664 |
| SDev | .0132 | .00139 | .00096 | .0036 |
| %RSD | .13517 | 4.7158 | 954.33 | .22676 |
| #1 | 9.7401 | .02855 | .00078 | 1.5689 |
| #2 | 9.7215 | .03052 | -.00058 | 1.5639 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-14L 5X Operator: SW
Run Time: 09/17/04 12:00:14
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .01533 | .01999 | .00607 | .00327 | .00028 | 18.426 | .52091 |
| SDev | .00006 | .00172 | .00015 | .00187 | .00024 | .109 | .00183 |
| %RSD | .42059 | 8.5964 | 2.3881 | 57.352 | 87.913 | .59127 | .35098 |
| #1 | .01529 | .01877 | .00596 | .00460 | .00045 | 18.349 | .51962 |
| #2 | .01538 | .02120 | .00617 | .00194 | .00011 | 18.503 | .52221 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00183 | 72.583 | -.00117 | .01719 | .02783 | .01400 | 41.544 |
| SDev | .00000 | .013 | .00004 | .00018 | .00024 | .00010 | .080 |
| %RSD | .00561 | .01755 | 3.7659 | 1.0776 | .84634 | .67685 | .19147 |
| #1 | .00183 | 72.592 | -.00120 | .01706 | .02766 | .01407 | 41.487 |
| #2 | .00183 | 72.574 | -.00114 | .01733 | .02800 | .01394 | 41.600 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 2.5449 | 22.315 | 1.2055 | 1.0289 | .03683 | .00208 | .04160 |
| SDev | .0110 | .072 | .0001 | .0113 | .00025 | .00092 | .00019 |
| %RSD | .43055 | .32488 | .00866 | 1.1022 | .67850 | 44.348 | .46437 |
| #1 | 2.5371 | 22.264 | 1.2054 | 1.0208 | .03665 | .00143 | .04146 |
| #2 | 2.5526 | 22.366 | 1.2056 | 1.0369 | .03701 | .00273 | .04173 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .04645 | .02595 | .01844 | .00420 | -.00223 | .10854 | .03625 |
| SDev | .00000 | .00055 | .00117 | .00120 | .00220 | .00126 | .00019 |
| %RSD | .00000 | 2.1350 | 6.3324 | 28.627 | 98.327 | 1.1591 | .51238 |
| #1 | .04645 | .02556 | .01761 | .00505 | -.00068 | .10943 | .03638 |
| #2 | .04645 | .02634 | .01926 | .00335 | -.00379 | .10765 | .03612 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 2.2215 | .00287 | .00095 | .38020 |
| SDev | .0090 | .00318 | .00072 | .00111 |
| %RSD | .40544 | 111.06 | 75.860 | .29148 |
| #1 | 2.2151 | .00062 | .00146 | .37941 |
| #2 | 2.2279 | .00512 | .00044 | .38098 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-14MS Operator: SW
Run Time: 09/17/04 12:02:45
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .64031 | .61856 | .50282 | .45967 | .06133 | 105.72 | 6.4690 |
| SDev | .00411 | .00358 | .01081 | .00036 | .00050 | .17 | .0114 |
| %RSD | .64152 | .57946 | 2.1498 | .07804 | .82028 | .16152 | .17593 |
| #1 | .64322 | .61602 | .51046 | .45992 | .06097 | 105.84 | 6.4770 |
| #2 | .63741 | .62109 | .49518 | .45941 | .06168 | 105.60 | 6.4609 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .48411 | 336.29 | .52281 | .52892 | .57178 | .55469 | H228.04 |
| SDev | .00254 | 2.80 | .00255 | .00168 | .00417 | .00161 | 1.35 |
| %RSD | .52425 | .83216 | .48768 | .31733 | .72912 | .29033 | .59135 |
| #1 | .48232 | 334.31 | .52101 | .52773 | .56884 | .55583 | H227.09 |
| #2 | .48591 | 338.27 | .52462 | .53010 | .57473 | .55355 | H229.00 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC High |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 13.780 | 106.02 | 6.0329 | 5.1200 | .62025 | .01028 | .61084 |
| SDev | .035 | .36 | .0296 | .0266 | .00451 | .00043 | .00331 |
| %RSD | .25427 | .34265 | .49082 | .51993 | .72787 | 4.1703 | .54117 |
| #1 | 13.805 | 105.76 | 6.0119 | 5.1388 | .61706 | .01059 | .60851 |
| #2 | 13.755 | 106.27 | 6.0538 | 5.1012 | .62344 | .00998 | .61318 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .64542 | .63176 | .62580 | .47404 | -.00318 | .62656 | .17124 |
| SDev | .00604 | .00219 | .00102 | .00384 | .00056 | .00131 | .00076 |
| %RSD | .93626 | .34637 | .16344 | .80982 | 17.675 | .20944 | .44061 |
| #1 | .64114 | .63330 | .62508 | .47675 | -.00278 | .62748 | .17071 |
| #2 | .64969 | .63021 | .62653 | .47132 | -.00358 | .62563 | .17177 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 12.411 | .03264 | .01555 | 1.5103 |
| SDev | .010 | .00001 | .00216 | .0006 |
| %RSD | .07971 | .02212 | 13.897 | .04064 |
| #1 | 12.404 | .03265 | .01402 | 1.5107 |
| #2 | 12.418 | .03264 | .01708 | 1.5099 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

Method: 28EL Sample Name: 0409018-14MSD Operator: SW
Run Time: 09/17/04 12:05:17
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .63312 | .61860 | .50090 | .45947 | .06018 | 100.97 | 2.8161 |
| SDev | .00569 | .00266 | .00768 | .01029 | .00034 | .07 | .0028 |
| %RSD | .89913 | .43019 | 1.5331 | 2.2394 | .56614 | .06954 | .10019 |
| #1 | .63715 | .61672 | .50633 | .45220 | .05994 | 101.02 | 2.8181 |
| #2 | .62910 | .62048 | .49547 | .46675 | .06042 | 100.92 | 2.8141 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .47732 | 291.71 | .51794 | .52262 | .55833 | .54456 | H221.25 |
| SDev | .00007 | .03 | .00130 | .00044 | .00038 | .00002 | .18 |
| %RSD | .01580 | .01014 | .25053 | .08385 | .06809 | .00348 | .08023 |
| #1 | .47737 | 291.69 | .51886 | .52293 | .55860 | .54455 | H221.38 |
| #2 | .47726 | 291.73 | .51702 | .52231 | .55806 | .54457 | H221.13 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC High |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 12.875 | 100.93 | 5.7305 | 5.0951 | .61190 | .00698 | .59120 |
| SDev | .033 | .04 | .0017 | .0119 | .00008 | .00052 | .00078 |
| %RSD | .25337 | .03937 | .02977 | .23268 | .01243 | 7.5225 | .13145 |
| #1 | 12.852 | 100.96 | 5.7317 | 5.0867 | .61195 | .00661 | .59175 |
| #2 | 12.898 | 100.90 | 5.7293 | 5.1035 | .61185 | .00735 | .59065 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .64114 | .62164 | .62344 | .47327 | -.00350 | .54449 | .16348 |
| SDev | .00315 | .00587 | .00012 | .00431 | .00128 | .00058 | .00000 |
| %RSD | .49173 | .94430 | .01935 | .90983 | 36.715 | .10713 | .00000 |
| #1 | .63891 | .61749 | .62352 | .47022 | -.00441 | .54490 | .16348 |
| #2 | .64337 | .62579 | .62335 | .47631 | -.00259 | .54407 | .16348 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 11.373 | .03100 | .01470 | 1.4764 |
| SDev | .015 | .00075 | .00000 | .0011 |
| %RSD | .13128 | 2.4106 | .00000 | .07422 |
| #1 | 11.383 | .03047 | .01470 | 1.4772 |
| #2 | 11.362 | .03153 | .01470 | 1.4757 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-15 Operator: SW
Run Time: 09/17/04 12:07:48
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .10521 | .10620 | .00845 | -.00200 | -.00039 | 90.904 | 1.8742 |
| SDev | .00461 | .00187 | .00474 | .00578 | .00041 | .103 | .0090 |
| %RSD | 4.3854 | 1.7607 | 56.098 | 288.66 | 106.90 | .11381 | .48230 |
| #1 | .10194 | .10752 | .01181 | .00208 | -.00068 | 90.831 | 1.8679 |
| #2 | .10847 | .10487 | .00510 | -.00609 | -.00009 | 90.978 | 1.8806 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00808 | 226.92 | -.00218 | .06897 | .11454 | .08254 | 177.17 |
| SDev | .00004 | .71 | .00011 | .00044 | .00090 | .00053 | .65 |
| %RSD | .46027 | .31496 | 5.2535 | .63923 | .78856 | .64303 | .36955 |
| #1 | .00805 | 226.41 | -.00226 | .06866 | .11390 | .08216 | 176.70 |
| #2 | .00810 | 227.42 | -.00210 | .06928 | .11517 | .08291 | 177.63 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 16.276 | 62.027 | 3.9962 | 1.2050 | .14909 | .00272 | .23221 |
| SDev | .041 | .137 | .0146 | .0017 | .00051 | .00017 | .00078 |
| %RSD | .25024 | .22145 | .36434 | .14455 | .33994 | 6.1010 | .33488 |
| #1 | 16.247 | 61.930 | 3.9859 | 1.2062 | .14873 | .00284 | .23166 |
| #2 | 16.304 | 62.125 | 4.0065 | 1.2038 | .14945 | .00260 | .23276 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .28350 | .07459 | .10587 | .00148 | -.00192 | .51034 | .12632 |
| SDev | .00026 | .00168 | .00029 | .00543 | .00117 | .00002 | .00130 |
| %RSD | .09240 | 2.2457 | .27322 | 367.08 | 60.870 | .00406 | 1.0286 |
| #1 | .28368 | .07577 | .10566 | .00532 | -.00109 | .51033 | .12540 |
| #2 | .28331 | .07340 | .10607 | -.00236 | -.00275 | .51036 | .12724 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 9.9278 | .02564 | .00044 | .68936 |
| SDev | .0298 | .00244 | .00096 | .00326 |
| %RSD | .30051 | 9.5131 | 218.18 | .47324 |
| #1 | 9.9067 | .02736 | -.00024 | .68705 |
| #2 | 9.9489 | .02391 | .00112 | .69167 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-16 Operator: SW
Run Time: 09/17/04 12:10:20
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .13470 | .13163 | .01231 | -.00303 | -.00004 | 63.318 | 1.1080 |
| SDev | .00201 | .00174 | .00340 | .00069 | .00100 | .078 | .0025 |
| %RSD | 1.4894 | 1.3236 | 27.587 | 22.885 | 2642.1 | .12307 | .22934 |
| #1 | .13612 | .13040 | .00991 | -.00352 | -.00075 | 63.373 | 1.1098 |
| #2 | .13328 | .13286 | .01471 | -.00254 | .00067 | 63.262 | 1.1062 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00550 | 81.830 | -.00123 | .04826 | .09530 | .06730 | 120.23 |
| SDev | .00006 | .727 | .00004 | .00047 | .00127 | .00047 | .80 |
| %RSD | 1.0149 | .88896 | 3.1156 | .97051 | 1.3322 | .70417 | .66659 |
| #1 | .00546 | 81.316 | -.00120 | .04793 | .09440 | .06696 | 119.67 |
| #2 | .00554 | 82.344 | -.00126 | .04859 | .09620 | .06763 | 120.80 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 14.123 | 46.477 | 2.7658 | .91235 | .10645 | .00111 | .14643 |
| SDev | .048 | .212 | .0156 | .00441 | .00154 | .00455 | .00097 |
| %RSD | .33782 | .45558 | .56528 | .48375 | 1.4505 | 411.76 | .66289 |
| #1 | 14.157 | 46.327 | 2.7548 | .91547 | .10536 | -.00211 | .14575 |
| #2 | 14.090 | 46.627 | 2.7769 | .90923 | .10754 | .00432 | .14712 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .47165 | .04283 | .13265 | .00208 | -.00198 | .56145 | .11379 |
| SDev | .00735 | .00254 | .00049 | .00159 | .00268 | .00276 | .00104 |
| %RSD | 1.5575 | 5.9297 | .37239 | 76.631 | 135.16 | .49176 | .91557 |
| #1 | .46646 | .04103 | .13231 | .00095 | -.00009 | .55950 | .11305 |
| #2 | .47685 | .04462 | .13300 | .00321 | -.00387 | .56340 | .11453 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 9.2785 | .03189 | .00163 | .72193 |
| SDev | .0233 | .00017 | .00024 | .00060 |
| %RSD | .25070 | .54074 | 14.743 | .08363 |
| #1 | 9.2621 | .03201 | .00146 | .72236 |
| #2 | 9.2950 | .03177 | .00180 | .72151 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-20 Operator: SW
Run Time: 09/17/04 12:12:51
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .09501 | .10096 | .00842 | .00075 | -.00075 | 112.36 | 1.9872 |
| SDev | .00154 | .00042 | .00634 | .00132 | .00066 | 1.17 | .0199 |
| %RSD | 1.6169 | .41333 | 75.334 | 176.15 | 88.285 | 1.0417 | 1.0000 |
| #1 | .09609 | .10066 | .01290 | .00169 | -.00028 | 111.53 | 1.9732 |
| #2 | .09392 | .10125 | .00393 | -.00018 | -.00121 | 113.19 | 2.0013 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00900 | 255.45 | -.00281 | .07511 | .13673 | .10130 | 194.05 |
| SDev | .00004 | 1.49 | .00008 | .00011 | .00054 | .00125 | .29 |
| %RSD | .41986 | .58369 | 2.9491 | .14230 | .39253 | 1.2349 | .14901 |
| #1 | .00903 | 256.51 | -.00286 | .07519 | .13711 | .10042 | 194.25 |
| #2 | .00897 | 254.40 | -.00275 | .07504 | .13635 | .10219 | 193.84 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 15.590 | 65.242 | 5.5345 | 1.2391 | .15670 | .00202 | .29344 |
| SDev | .239 | .104 | .0056 | .0227 | .00000 | .00071 | .00039 |
| %RSD | 1.5303 | .15985 | .10116 | 1.8283 | .00009 | 35.184 | .13213 |
| #1 | 15.421 | 65.168 | 5.5385 | 1.2230 | .15670 | .00151 | .29316 |
| #2 | 15.758 | 65.316 | 5.5306 | 1.2551 | .15670 | .00252 | .29371 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | Zn | As | Pb | Se | Tl | Ti | B |
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .25803 | .06490 | .09898 | .00330 | -.00248 | .60308 | .11813 |
| SDev | .00406 | .00064 | .00023 | .00299 | .00294 | .00244 | .00185 |
| %RSD | 1.5732 | .98435 | .23562 | 90.616 | 118.75 | .40426 | 1.5621 |
| #1 | .26090 | .06536 | .09914 | .00542 | -.00040 | .60136 | .11682 |
| #2 | .25516 | .06445 | .09881 | .00119 | -.00455 | .60481 | .11943 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| | | | | |
|---|---|---|---|---|
| Elem | Si | Sn | Mo | Sr |
| Units | ppm | ppm | ppm | ppm |
| Avge | 8.5172 | .02933 | -.00058 | .57687 |
| SDev | .0507 | .00058 | .00048 | .00480 |
| %RSD | .59508 | 1.9647 | 83.012 | .83237 |
| #1 | 8.4814 | .02892 | -.00024 | .57347 |
| #2 | 8.5531 | .02974 | -.00092 | .58026 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-21 Operator: SW
Run Time: 09/17/04 12:15:22
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .08042 | .08312 | .00613 | -.00043 | -.00044 | 77.627 | 1.8383 |
| SDev | .00434 | .00306 | .00227 | .00429 | .00033 | .224 | .0030 |
| %RSD | 5.3944 | 3.6803 | 36.989 | 1001.5 | 74.286 | .28902 | .16206 |
| #1 | .08348 | .08095 | .00773 | -.00346 | -.00068 | 77.785 | 1.8404 |
| #2 | .07735 | .08528 | .00452 | .00261 | -.00021 | 77.468 | 1.8362 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00687 | 157.46 | -.00241 | .06477 | .11071 | .07738 | 156.50 |
| SDev | .00004 | .16 | .00019 | .00095 | .00005 | .00017 | .15 |
| %RSD | .54450 | .10253 | 8.0440 | 1.4699 | .04729 | .22048 | .09510 |
| #1 | .00684 | 157.35 | -.00255 | .06544 | .11075 | .07750 | 156.39 |
| #2 | .00689 | 157.58 | -.00227 | .06409 | .11068 | .07726 | 156.60 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 14.758 | 68.047 | 4.1947 | 1.6724 | .14443 | .00054 | .21107 |
| SDev | .070 | .017 | .0023 | .0116 | .00092 | .00017 | .00039 |
| %RSD | .47302 | .02474 | .05485 | .69413 | .63812 | 30.939 | .18269 |
| #1 | 14.807 | 68.059 | 4.1931 | 1.6806 | .14378 | .00066 | .21080 |
| #2 | 14.709 | 68.036 | 4.1964 | 1.6642 | .14508 | .00042 | .21135 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .27470 | .04806 | .08222 | .00175 | -.00321 | .54552 | .15475 |
| SDev | .00249 | .00194 | .00060 | .00211 | .00115 | .00139 | .00019 |
| %RSD | .90586 | 4.0337 | .72459 | 120.22 | 35.717 | .25462 | .12178 |
| #1 | .27294 | .04669 | .08180 | .00026 | -.00402 | .54453 | .15488 |
| #2 | .27646 | .04943 | .08264 | .00325 | -.00240 | .54650 | .15461 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 9.2285 | .03419 | .00027 | .95328 |
| SDev | .0161 | .00113 | .00216 | .00138 |
| %RSD | .17499 | 3.3151 | 799.10 | .14456 |

| | | | | |
|---|---|---|---|---|
| #1 | 9.2399 | .03339 | .00180 | .95426 |
| #2 | 9.2171 | .03499 | -.00126 | .95231 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0405097-6 Operator: SW
Run Time: 09/17/04 12:17:54
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .09684 | .08198 | .00086 | -.00034 | -.00125 | 4.7030 | .06891 |
| SDev | .00311 | .00061 | .00305 | .00092 | .00028 | .0090 | .00027 |
| %RSD | 3.2131 | .74710 | 353.67 | 269.40 | 22.453 | .19094 | .39649 |
| #1 | .09904 | .08241 | .00302 | -.00099 | -.00105 | 4.6966 | .06872 |
| #2 | .09464 | .08154 | -.00129 | .00031 | -.00145 | 4.7093 | .06910 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00126 | 3.6557 | -.00069 | .00028 | .12238 | .00351 | 8.6441 |
| SDev | .00000 | .0070 | .00008 | .00026 | .00018 | .00008 | .0175 |
| %RSD | .00841 | .19234 | 12.017 | 90.242 | .14975 | 2.1616 | .20241 |
| #1 | .00126 | 3.6606 | -.00075 | .00047 | .12250 | .00356 | 8.6317 |
| #2 | .00126 | 3.6507 | -.00063 | .00010 | .12225 | .00345 | 8.6564 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 2.3257 | .18280 | .21264 | 1.8843 | .00633 | .00242 | .00072 |
| SDev | .0129 | .00299 | .00015 | .0157 | .00051 | .00443 | .00019 |
| %RSD | .55432 | 1.6355 | .07275 | .83439 | 7.9870 | 182.54 | 26.772 |
| #1 | 2.3348 | .18492 | .21275 | 1.8732 | .00668 | .00555 | .00059 |
| #2 | 2.3166 | .18069 | .21253 | 1.8954 | .00597 | -.00070 | .00086 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .20693 | .00770 | .08693 | .00006 | -.00070 | .24487 | .00633 |
| SDev | .00118 | .00143 | .00145 | .00040 | .00088 | .00088 | .00008 |
| %RSD | .56931 | 18.625 | 1.6619 | 674.79 | 126.11 | .36030 | 1.3112 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .20776 | .00668 | .08795 | .00034 | -.00008 | .24424 | .00639 |
| #2 | .20610 | .00871 | .08590 | -.00023 | -.00132 | .24549 | .00627 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 6.7315 | .02398 | .00791 | .01623 |
| SDev | .0292 | .00103 | .00048 | .00008 |
| %RSD | .43411 | 4.2832 | 6.0707 | .48150 |
| #1 | 6.7108 | .02470 | .00825 | .01618 |
| #2 | 6.7522 | .02325 | .00757 | .01629 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0405097-6D Operator: SW
Run Time: 09/17/04 12:20:25
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .09027 | .08019 | .00245 | -.00296 | -.00189 | 4.5532 | .06977 |
| SDev | .00274 | .00058 | .01458 | .00106 | .00023 | .0245 | .00020 |
| %RSD | 3.0330 | .72105 | 596.42 | 35.700 | 12.216 | .53742 | .28946 |
| #1 | .08833 | .08060 | .01276 | -.00221 | -.00173 | 4.5359 | .06962 |
| #2 | .09221 | .07978 | -.00787 | -.00370 | -.00205 | 4.5705 | .06991 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00126 | 3.8456 | -.00106 | .00043 | .12098 | .00335 | 8.7023 |
| SDev | .00000 | .0078 | .00007 | .00011 | .00020 | .00026 | .0250 |
| %RSD | .00815 | .20277 | 6.5459 | 25.881 | .16230 | 7.9293 | .28687 |
| #1 | .00126 | 3.8512 | -.00101 | .00050 | .12084 | .00353 | 8.7200 |
| #2 | .00126 | 3.8401 | -.00111 | .00035 | .12112 | .00316 | 8.6847 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 2.2276 | .16183 | .21188 | 1.7787 | .00648 | .00362 | .00045 |
| SDev | .0085 | .00225 | .00013 | .0101 | .00043 | .00068 | .00019 |
| %RSD | .38187 | 1.3873 | .06327 | .56833 | 6.6836 | 18.661 | 43.528 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | 2.2336 | .16341 | .21198 | 1.7716 | .00679 | .00410 | .00058 |
| #2 | 2.2216 | .16024 | .21179 | 1.7859 | .00617 | .00314 | .00031 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .14808 | .00832 | .08355 | -.00116 | .00261 | .25246 | .00525 |
| SDev | .00013 | .00161 | .00053 | .00556 | .00066 | .00049 | .00124 |
| %RSD | .08836 | 19.318 | .62961 | 480.42 | 25.196 | .19570 | 23.659 |
| #1 | .14798 | .00718 | .08318 | .00277 | .00215 | .25211 | .00613 |
| #2 | .14817 | .00945 | .08392 | -.00509 | .00308 | .25281 | .00437 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 5.4473 | .02050 | .00587 | .01786 |
| SDev | .0121 | .00113 | .00000 | .00002 |
| %RSD | .22168 | 5.5032 | .00000 | .10110 |
| #1 | 5.4388 | .01971 | .00587 | .01784 |
| #2 | 5.4558 | .02130 | .00587 | .01787 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: CCV Operator: SW
Run Time: 09/17/04 12:22:57
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .49069 | .47502 | .52152 | .49557 | .48833 | 49.413 | .48764 |
| SDev | .00591 | .00523 | .00169 | .00516 | .00034 | .167 | .00084 |
| %RSD | 1.2044 | 1.1005 | .32412 | 1.0407 | .06896 | .33808 | .17146 |
| #1 | .48651 | .47872 | .52033 | .49922 | .48809 | 49.295 | .48705 |
| #2 | .49487 | .47132 | .52272 | .49193 | .48857 | 49.531 | .48823 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | | | | .50000 | 50.500 | .50000 |
| Range | | | | | 10.000 | 10.000 | 10.000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .50456 | 49.533 | .47948 | .48578 | .47820 | .49622 | 19.908 |
| SDev | .00169 | .151 | .00023 | .00358 | .00177 | .00074 | .096 |
| %RSD | .33433 | .30432 | .04727 | .73640 | .36999 | .14891 | .48340 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .50576 | 49.640 | .47964 | .48831 | .47945 | .49570 | 19.976 |
| #2 | .50337 | 49.427 | .47932 | .48325 | .47695 | .49675 | 19.840 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | 50.500 | .50000 | .50000 | .50000 | .50000 | 20.500 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 19.900 | 49.448 | .47761 | 20.482 | .47346 | .51870 | .49575 |
| SDev | .082 | .042 | .00076 | .136 | .00174 | .00047 | .00097 |
| %RSD | .41373 | .08480 | .16026 | .66385 | .36665 | .09101 | .19638 |
| #1 | 19.842 | 49.477 | .47815 | 20.386 | .47469 | .51904 | .49644 |
| #2 | 19.958 | 49.418 | .47706 | 20.578 | .47224 | .51837 | .49506 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | 20.000 | 50.500 | .50000 | 20.500 | .50000 | .50000 | .50000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .49113 | .50272 | .48024 | .50421 | .50816 | .47535 | .99374 |
| SDev | .00341 | .00160 | .00152 | .00288 | .00286 | .00069 | .00192 |
| %RSD | .69456 | .31871 | .31628 | .57061 | .56215 | .14495 | .19301 |
| #1 | .49354 | .50385 | .48131 | .50625 | .50614 | .47583 | .99238 |
| #2 | .48872 | .50158 | .47916 | .50218 | .51018 | .47486 | .99510 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | .50000 | .50000 | .50000 | .50000 | .50000 | 1.0000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | Q.28103 | .50269 | .49288 | .48118 |
| SDev | .00497 | .00009 | .00193 | .00040 |
| %RSD | 1.7682 | .01795 | .39099 | .08368 |
| #1 | Q.28454 | .50262 | .49424 | .48089 |
| #2 | Q.27752 | .50275 | .49152 | .48146 |
| Errors | QC Fail | QC Pass | QC Pass | QC Pass |
| Value | .25000 | .50000 | .50000 | .50000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 |

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Method: 28EL Sample Name: CCB Operator: SW
Run Time: 09/17/04 12:25:30
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | -.00629 | .00145 | .00298 | .00085 | .00001 | .03507 | .00005 |
| SDev | .00135 | .00011 | .00528 | .00399 | .00057 | .00055 | .00002 |
| %RSD | 21.481 | 7.8242 | 177.26 | 470.33 | 9729.2 | 1.5616 | 43.689 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | -.00724 | .00137 | .00671 | -.00197 | -.00040 | .03468 | .00004 |
| #2 | -.00533 | .00153 | -.00075 | .00367 | .00041 | .03546 | .00007 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | .01000 | .20000 | .10000 |
| Low | | | | | -.01000 | -.20000 | -.10000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00011 | .06356 | -.00048 | -.00043 | -.00006 | .00030 | .04386 |
| SDev | .00002 | .00000 | .00027 | .00062 | .00052 | .00013 | .00596 |
| %RSD | 17.279 | .00000 | 55.245 | 142.87 | 927.57 | 43.622 | 13.600 |
| #1 | .00009 | .06356 | -.00067 | -.00087 | -.00043 | .00021 | .03964 |
| #2 | .00012 | .06356 | -.00030 | .00000 | .00031 | .00040 | .04807 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .00500 | 1.0000 | .00500 | .01000 | .01000 | .01000 | .10000 |
| Low | -.00500 | -1.0000 | -.00500 | -.01000 | -.01000 | -.01000 | -.10000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .07670 | .02529 | .00055 | .09317 | .00086 | .00056 | -.00025 |
| SDev | .02786 | .00203 | .00001 | .00059 | .00040 | .00147 | .00039 |
| %RSD | 36.326 | 8.0370 | 1.8710 | .62828 | 45.884 | 262.73 | 157.01 |
| #1 | .05700 | .02386 | .00054 | .09358 | .00058 | -.00048 | -.00052 |
| #2 | .09640 | .02673 | .00056 | .09275 | .00115 | .00160 | .00003 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1.0000 | 1.0000 | .01000 | 1.0000 | .02000 | .02000 | .01000 |
| Low | -1.0000 | -1.0000 | -.01000 | -1.0000 | -.02000 | -.02000 | -.01000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | -.00263 | .00359 | -.00113 | .00156 | -.00169 | .00015 | .00295 |
| SDev | .00065 | .00120 | .00053 | .00091 | .00000 | .00015 | .00105 |
| %RSD | 24.858 | 33.372 | 46.551 | 58.118 | .05225 | 98.717 | 35.732 |
| #1 | -.00309 | .00443 | -.00150 | .00092 | -.00170 | .00004 | .00220 |
| #2 | -.00217 | .00274 | -.00076 | .00220 | -.00169 | .00025 | .00369 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .02000 | .01000 | .00300 | .00500 | .01000 | .01000 | .10000 |
| Low | -.02000 | -.01000 | -.00300 | -.00500 | -.01000 | -.01000 | -.10000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .00160 | -.00164 | .00027 | .00028 |
| SDev | .00139 | .00009 | .00024 | .00001 |
| %RSD | 86.782 | 5.6582 | 88.791 | 4.1682 |
| #1 | .00062 | -.00158 | .00044 | .00027 |
| #2 | .00258 | -.00171 | .00010 | .00028 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .05000 | .05000 | .01000 | .01000 |

| | | | | |
|---|---|---|---|---|
| Low | -.05000 | -.05000 | -.01000 | -.01000 |

Method: 28EL Sample Name: 0405097-6L 5X Operator: SW
Run Time: 09/17/04 12:28:01
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .01783 | .01569 | -.00762 | .00251 | .00042 | .93895 | .01368 |
| SDev | .00162 | .00042 | .02036 | .00244 | .00026 | .00152 | .00002 |
| %RSD | 9.0998 | 2.6512 | 267.31 | 97.391 | 62.304 | .16144 | .17349 |
| #1 | .01669 | .01539 | .00678 | .00078 | .00024 | .93788 | .01367 |
| #2 | .01898 | .01598 | -.02201 | .00423 | .00061 | .94002 | .01370 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00023 | .71918 | -.00041 | .00062 | .02447 | .00127 | 1.6541 |
| SDev | .00004 | .00334 | .00004 | .00033 | .00043 | .00028 | .0116 |
| %RSD | 16.505 | .46446 | 9.3212 | 53.158 | 1.7646 | 22.402 | .69983 |
| #1 | .00020 | .71682 | -.00044 | .00038 | .02417 | .00107 | 1.6459 |
| #2 | .00025 | .72155 | -.00038 | .00085 | .02478 | .00147 | 1.6623 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .61588 | .02458 | .04282 | .45377 | .00229 | .00364 | -.00011 |
| SDev | .02221 | .00305 | .00018 | .00003 | .00003 | .00157 | .00019 |
| %RSD | 3.6057 | 12.412 | .43269 | .00615 | 1.2631 | 43.060 | 179.16 |
| #1 | .60018 | .02242 | .04269 | .45375 | .00227 | .00253 | -.00025 |
| #2 | .63158 | .02673 | .04295 | .45379 | .00231 | .00475 | .00003 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .04007 | .00482 | .01640 | -.00086 | .00239 | .04956 | .00296 |
| SDev | .00144 | .00150 | .00082 | .00515 | .00111 | .00022 | .00021 |
| %RSD | 3.5887 | 31.203 | 4.9862 | 596.46 | 46.405 | .44420 | 7.2328 |
| #1 | .03905 | .00376 | .01582 | .00278 | .00160 | .04941 | .00281 |
| #2 | .04108 | .00588 | .01698 | -.00450 | .00317 | .04972 | .00311 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 1.3502 | .00499 | .00163 | .00327 |
| SDev | .0179 | .00253 | .00024 | .00001 |
| %RSD | 1.3248 | 50.679 | 14.743 | .18094 |
| #1 | 1.3376 | .00678 | .00180 | .00326 |
| #2 | 1.3629 | .00320 | .00146 | .00327 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0405097-6MS Operator: SW
Run Time: 09/17/04 12:30:32
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .67379 | .64905 | .54670 | .52947 | .06061 | 9.5727 | .55249 |
| SDev | .00356 | .00302 | .00957 | .00216 | .00067 | .0265 | .00054 |
| %RSD | .52859 | .46503 | 1.7504 | .40784 | 1.0975 | .27648 | .09737 |
| #1 | .67127 | .65118 | .53994 | .52794 | .06014 | 9.5540 | .55211 |
| #2 | .67630 | .64691 | .55347 | .53099 | .06109 | 9.5914 | .55287 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .51621 | 3.3659 | .58352 | .49209 | .60809 | .50082 | 13.391 |
| SDev | .00010 | .0045 | .00122 | .00091 | .00108 | .00072 | .008 |
| %RSD | .01835 | .13393 | .20976 | .18568 | .17681 | .14376 | .06295 |
| #1 | .51627 | 3.3691 | .58438 | .49274 | .60885 | .50031 | 13.397 |
| #2 | .51614 | 3.3627 | .58265 | .49144 | .60733 | .50133 | 13.385 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 2.2558 | .14753 | .68430 | 1.8158 | .49235 | .01594 | .48915 |
| SDev | .0041 | .00000 | .00008 | .0001 | .00160 | .00466 | .00019 |
| %RSD | .18013 | .00000 | .01211 | .00445 | .32400 | 29.236 | .03959 |
| #1 | 2.2529 | .14753 | .68424 | 1.8158 | .49122 | .01264 | .48928 |
| #2 | 2.2587 | .14753 | .68436 | 1.8157 | .49348 | .01923 | .48901 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .64830 | .53590 | .65729 | .53521 | .00108 | .20855 | .00533 |
| SDev | .00223 | .00411 | .00083 | .00463 | .00243 | .00052 | .00010 |
| %RSD | .34448 | .76673 | .12585 | .86451 | 226.03 | .24700 | 1.8643 |
| #1 | .64988 | .53300 | .65787 | .53193 | -.00064 | .20819 | .00526 |
| #2 | .64672 | .53881 | .65670 | .53848 | .00280 | .20892 | .00540 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 5.3841 | .02371 | .02557 | .01620 |
| SDev | .0022 | .00037 | .00048 | .00004 |
| %RSD | .04007 | 1.5705 | 1.8784 | .25981 |
| #1 | 5.3856 | .02397 | .02523 | .01617 |
| #2 | 5.3826 | .02345 | .02591 | .01623 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0405097-6MSD Operator: SW
Run Time: 09/17/04 12:33:03
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .67712 | .65172 | .56295 | .53978 | .06076 | 9.8126 | .55947 |
| SDev | .00427 | .00306 | .00776 | .00017 | .00023 | .0366 | .00393 |
| %RSD | .62999 | .46982 | 1.3790 | .03206 | .37383 | .37286 | .70306 |
| #1 | .67411 | .64955 | .55746 | .53991 | .06060 | 9.7868 | .55669 |
| #2 | .68014 | .65389 | .56843 | .53966 | .06092 | 9.8385 | .56225 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .51816 | 3.7587 | .58688 | .49271 | .63768 | .50584 | 13.740 |
| SDev | .00021 | .0035 | .00059 | .00033 | .00005 | .00301 | .010 |
| %RSD | .04030 | .09363 | .09969 | .06682 | .00823 | .59556 | .07467 |
| #1 | .51801 | 3.7562 | .58647 | .49294 | .63772 | .50371 | 13.733 |
| #2 | .51831 | 3.7612 | .58730 | .49248 | .63765 | .50797 | 13.747 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |
| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 2.5066 | .14824 | .69188 | 3.5766 | .50232 | .01529 | .49121 |
| SDev | .0037 | .00349 | .00124 | .0402 | .00244 | .00487 | .00039 |
| %RSD | .14591 | 2.3579 | .17984 | 1.1238 | .48586 | 31.862 | .07885 |
| #1 | 2.5040 | .15071 | .69100 | 3.5481 | .50404 | .01874 | .49148 |
| #2 | 2.5092 | .14577 | .69276 | 3.6050 | .50059 | .01185 | .49093 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | Zn | As | Pb | Se | Tl | Ti | B |
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .65471 | .54288 | .66018 | .54750 | -.00197 | .20917 | .00560 |
| SDev | .00289 | .00398 | .00346 | .00247 | .00288 | .00107 | .00015 |
| %RSD | .44145 | .73244 | .52452 | .45109 | 146.50 | .51325 | 2.6632 |
| #1 | .65675 | .54006 | .65773 | .54575 | -.00400 | .20841 | .00571 |
| #2 | .65266 | .54569 | .66263 | .54924 | .00007 | .20992 | .00550 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| | | | | |
|---|---|---|---|---|
| Elem | Si | Sn | Mo | Sr |
| Units | ppm | ppm | ppm | ppm |
| Avge | 5.1675 | .02385 | .02557 | .01856 |
| SDev | .0191 | .00038 | .00096 | .00016 |
| %RSD | .36913 | 1.5982 | 3.7567 | .84344 |
| #1 | 5.1540 | .02358 | .02489 | .01845 |
| #2 | 5.1810 | .02412 | .02624 | .01867 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

Method: 28EL Sample Name: 0409018-5 2X Operator: SW
Run Time: 09/17/04 12:37:09
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .03698 | .03657 | .00688 | .00149 | -.00006 | 54.167 | .67339 |
| SDev | .00186 | .00079 | .01606 | .00208 | .00018 | .155 | .00053 |
| %RSD | 5.0420 | 2.1513 | 233.40 | 140.16 | 283.67 | .28617 | .07824 |
| #1 | .03830 | .03601 | .01824 | .00001 | -.00019 | 54.277 | .67302 |
| #2 | .03566 | .03713 | -.00448 | .00296 | .00006 | 54.057 | .67376 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00476 | 49.036 | -.00217 | .04441 | .07191 | .05302 | 97.417 |
| SDev | .00004 | .157 | .00003 | .00026 | .00009 | .00011 | .231 |
| %RSD | .77581 | .31981 | 1.5976 | .59091 | .12741 | .21450 | .23761 |
| #1 | .00474 | 48.925 | -.00219 | .04423 | .07184 | .05294 | 97.253 |
| #2 | .00479 | 49.147 | -.00214 | .04460 | .07197 | .05310 | 97.580 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 8.0255 | 42.515 | 1.8751 | 5.6768 | .10418 | .00267 | .21272 |
| SDev | .0073 | .048 | .0055 | .0312 | .00104 | .00033 | .00117 |
| %RSD | .09061 | .11374 | .29206 | .54911 | .99732 | 12.228 | .54805 |
| #1 | 8.0306 | 42.481 | 1.8713 | 5.6988 | .10344 | .00290 | .21190 |
| #2 | 8.0204 | 42.550 | 1.8790 | 5.6547 | .10491 | .00244 | .21355 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .13735 | .04790 | .03671 | .00328 | -.00423 | .26241 | .10622 |
| SDev | .00065 | .00219 | .00010 | .00396 | .00150 | .00385 | .00003 |
| %RSD | .47626 | 4.5779 | .26204 | 120.61 | 35.467 | 1.4655 | .03214 |
| #1 | .13688 | .04635 | .03678 | .00608 | -.00317 | .26513 | .10620 |
| #2 | .13781 | .04945 | .03664 | .00048 | -.00529 | .25969 | .10624 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 5.2638 | .01757 | .00112 | .40765 |
| SDev | .0217 | .00270 | .00096 | .00063 |
| %RSD | .41275 | 15.359 | 85.804 | .15380 |
| #1 | 5.2792 | .01566 | .00044 | .40721 |
| #2 | 5.2485 | .01948 | .00180 | .40809 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-6 2X Operator: SW
Run Time: 09/17/04 12:39:41
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .03282 | .03923 | .00761 | .00097 | -.00030 | 41.404 | 2.3130 |
| SDev | .00010 | .00118 | .00106 | .00449 | .00040 | .176 | .0039 |
| %RSD | .29975 | 3.0080 | 13.966 | 460.68 | 130.17 | .42506 | .16666 |
| #1 | .03275 | .03839 | .00686 | -.00220 | -.00058 | 41.529 | 2.3158 |
| #2 | .03289 | .04006 | .00836 | .00415 | -.00002 | 41.280 | 2.3103 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00383 | 320.53 | -.00087 | .03744 | .07128 | .04211 | 78.669 |
| SDev | .00000 | 1.61 | .00002 | .00006 | .00028 | .00015 | .201 |
| %RSD | .00539 | .50258 | 2.8522 | .17366 | .38559 | .36011 | .25569 |
| #1 | .00383 | 319.40 | -.00088 | .03739 | .07108 | .04222 | 78.527 |
| #2 | .00383 | 321.67 | -.00085 | .03748 | .07147 | .04200 | 78.812 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 6.5766 | 140.90 | 7.9070 | 2.6539 | .07786 | .00025 | .12955 |
| SDev | .0205 | .02 | .0222 | .0199 | .00013 | .00209 | .00039 |
| %RSD | .31143 | .01532 | .28090 | .75125 | .17113 | 849.14 | .30006 |
| #1 | 6.5911 | 140.88 | 7.8913 | 2.6680 | .07776 | -.00123 | .12928 |
| #2 | 6.5622 | 140.91 | 7.9227 | 2.6398 | .07795 | .00173 | .12982 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .10035 | .02271 | .03709 | .00318 | -.00024 | .28806 | .08578 |
| SDev | .00118 | .00292 | .00082 | .00335 | .00480 | .00366 | .00162 |
| %RSD | 1.1730 | 12.861 | 2.2101 | 105.09 | 2013.1 | 1.2718 | 1.8861 |
| #1 | .09952 | .02065 | .03651 | .00082 | .00316 | .28547 | .08464 |
| #2 | .10118 | .02478 | .03767 | .00555 | -.00363 | .29065 | .08693 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 4.9759 | .01221 | -.00126 | 2.1581 |
| SDev | .0305 | .00017 | .00048 | .0015 |
| %RSD | .61273 | 1.3715 | 38.184 | .06945 |
| #1 | 4.9974 | .01233 | -.00160 | 2.1592 |
| #2 | 4.9543 | .01209 | -.00092 | 2.1571 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-10 2X Operator: SW
Run Time: 09/17/04 12:42:13
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .03733 | .03874 | .01221 | -.00154 | .00050 | 56.551 | 2.2540 |
| SDev | .00230 | .00104 | .00715 | .00488 | .00009 | .089 | .0060 |
| %RSD | 6.1688 | 2.6913 | 58.577 | 316.84 | 18.661 | .15710 | .26584 |
| #1 | .03896 | .03801 | .00715 | .00191 | .00056 | 56.488 | 2.2498 |
| #2 | .03570 | .03948 | .01727 | -.00499 | .00043 | 56.614 | 2.2582 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00532 | 206.69 | -.00272 | .04952 | .08992 | .05728 | 132.36 |
| SDev | .00002 | .37 | .00007 | .00011 | .00028 | .00004 | .04 |
| %RSD | .35550 | .17854 | 2.5808 | .22008 | .30569 | .06618 | .03395 |
| #1 | .00533 | 206.95 | -.00277 | .04959 | .08972 | .05726 | 132.39 |
| #2 | .00530 | 206.43 | -.00267 | .04944 | .09011 | .05731 | 132.33 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 6.5745 | 37.255 | 1.6984 | 1.1693 | .11134 | .00370 | .15220 |
| SDev | .0161 | .003 | .0003 | .0038 | .00045 | .00185 | .00019 |
| %RSD | .24515 | .00899 | .01915 | .32608 | .40018 | 50.135 | .12772 |
| #1 | 6.5631 | 37.253 | 1.6987 | 1.1666 | .11166 | .00239 | .15206 |
| #2 | 6.5859 | 37.258 | 1.6982 | 1.1720 | .11103 | .00501 | .15233 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .14623 | .12475 | .03827 | .00304 | -.00136 | .31445 | .08049 |
| SDev | .00039 | .00198 | .00007 | .00087 | .00222 | .00091 | .00063 |
| %RSD | .26841 | 1.5855 | .18632 | 28.745 | 163.59 | .29008 | .78244 |
| #1 | .14650 | .12615 | .03832 | .00366 | .00021 | .31380 | .08093 |
| #2 | .14595 | .12335 | .03822 | .00242 | -.00293 | .31509 | .08004 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 4.6284 | .01468 | .00129 | .40237 |
| SDev | .0064 | .00065 | .00024 | .00078 |
| %RSD | .13930 | 4.4398 | 18.626 | .19316 |
| #1 | 4.6329 | .01514 | .00112 | .40183 |
| #2 | 4.6238 | .01422 | .00146 | .40292 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-14 2X Operator: SW
Run Time: 09/17/04 12:44:45
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .04489 | .04472 | .01081 | .00031 | -.00036 | 46.392 | 1.2683 |
| SDev | .00348 | .00297 | .01382 | .00425 | .00057 | .353 | .0096 |
| %RSD | 7.7433 | 6.6389 | 127.83 | 1388.5 | 157.47 | .76110 | .75742 |
| #1 | .04243 | .04682 | .00104 | .00331 | -.00077 | 46.642 | 1.2751 |
| #2 | .04734 | .04262 | .02058 | -.00270 | .00004 | 46.142 | 1.2615 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00449 | 183.79 | -.00202 | .04142 | .06789 | .03375 | 106.80 |
| SDev | .00002 | .41 | .00007 | .00047 | .00025 | .00004 | .04 |
| %RSD | .42063 | .22306 | 3.3450 | 1.1408 | .36627 | .11234 | .03884 |
| #1 | .00448 | 183.50 | -.00198 | .04108 | .06771 | .03372 | 106.83 |
| #2 | .00451 | 184.08 | -.00207 | .04175 | .06807 | .03377 | 106.77 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 6.3955 | 55.361 | 2.9136 | 2.6154 | .08999 | .00389 | .10060 |
| SDev | .0481 | .113 | .0014 | .0300 | .00093 | .00226 | .00019 |
| %RSD | .75246 | .20450 | .04784 | 1.1469 | 1.0380 | 58.007 | .19320 |
| #1 | 6.4295 | 55.441 | 2.9145 | 2.6366 | .08933 | .00548 | .10073 |
| #2 | 6.3615 | 55.281 | 2.9126 | 2.5942 | .09065 | .00229 | .10046 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .10729 | .06468 | .04478 | .00380 | -.00335 | .26582 | .08600 |
| SDev | .00000 | .00289 | .00082 | .00177 | .00242 | .00092 | .00036 |
| %RSD | .00000 | 4.4719 | 1.8381 | 46.494 | 72.220 | .34437 | .41589 |
| #1 | .10729 | .06264 | .04536 | .00255 | -.00506 | .26647 | .08575 |
| #2 | .10729 | .06673 | .04419 | .00505 | -.00164 | .26518 | .08625 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 5.9100 | .01282 | -.00007 | .93022 |
| SDev | .0722 | .00215 | .00024 | .00598 |
| %RSD | 1.2213 | 16.793 | 347.26 | .64235 |
| #1 | 5.9610 | .01129 | .00010 | .93445 |
| #2 | 5.8589 | .01434 | -.00024 | .92600 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-14D 2X Operator: SW
Run Time: 09/17/04 12:47:17
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .04537 | .04202 | .00955 | .00036 | .00016 | 46.835 | 1.9218 |
| SDev | .00298 | .00014 | .00513 | .00263 | .00036 | .086 | .0039 |
| %RSD | 6.5691 | .32209 | 53.676 | 730.62 | 225.99 | .18280 | .20271 |
| #1 | .04326 | .04192 | .00593 | -.00150 | -.00009 | 46.896 | 1.9245 |
| #2 | .04748 | .04212 | .01317 | .00222 | .00041 | 46.775 | 1.9190 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00449 | 180.81 | -.00188 | .04139 | .07035 | .03365 | 108.30 |
| SDev | .00002 | .41 | .00011 | .00032 | .00028 | .00002 | .22 |
| %RSD | .41842 | .22625 | 6.0449 | .78169 | .39066 | .05633 | .20757 |
| #1 | .00448 | 180.53 | -.00197 | .04117 | .07016 | .03364 | 108.14 |
| #2 | .00450 | 181.10 | -.00180 | .04162 | .07055 | .03367 | 108.46 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 6.4324 | 53.180 | 2.8921 | 2.5179 | .08973 | .00155 | .10266 |
| SDev | .0350 | .049 | .0042 | .0179 | .00089 | .00027 | .00000 |
| %RSD | .54385 | .09243 | .14602 | .71085 | .99029 | 17.679 | .00112 |
| #1 | 6.4571 | 53.145 | 2.8891 | 2.5306 | .09035 | .00136 | .10265 |
| #2 | 6.4077 | 53.215 | 2.8951 | 2.5053 | .08910 | .00174 | .10266 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .10414 | .06088 | .04314 | .00342 | -.00162 | .26307 | .08610 |
| SDev | .00052 | .00015 | .00108 | .00346 | .00171 | .00187 | .00029 |
| %RSD | .50235 | .24953 | 2.5102 | 101.22 | 105.98 | .70915 | .33630 |
| #1 | .10377 | .06098 | .04237 | .00097 | -.00040 | .26175 | .08630 |
| #2 | .10451 | .06077 | .04390 | .00587 | -.00283 | .26438 | .08589 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 5.8180 | .01207 | .00010 | .79852 |
| SDev | .0046 | .00055 | .00096 | .00108 |
| %RSD | .07879 | 4.5770 | 954.33 | .13569 |

| | | | | |
|---|---|---|---|---|
| #1 | 5.8148 | .01246 | -.00058 | .79929 |
| #2 | 5.8213 | .01168 | .00078 | .79776 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-14L 10X Operator: SW
Run Time: 09/17/04 12:49:48
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .01089 | .00664 | .01512 | -.00075 | .00103 | 9.2130 | .26324 |
| SDev | .00240 | .00058 | .01565 | .00196 | .00014 | .0226 | .00118 |
| %RSD | 22.020 | 8.7298 | 103.49 | 261.95 | 13.543 | .24509 | .44788 |
| #1 | .01258 | .00623 | .02619 | -.00213 | .00113 | 9.2290 | .26241 |
| #2 | .00919 | .00705 | .00406 | .00064 | .00093 | 9.1970 | .26408 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00089 | 35.942 | -.00086 | .00874 | .01420 | .00726 | 20.491 |
| SDev | .00002 | .056 | .00003 | .00018 | .00001 | .00019 | .041 |
| %RSD | 2.1026 | .15570 | 4.0790 | 2.1066 | .09214 | 2.6107 | .19979 |
| #1 | .00091 | 35.903 | -.00088 | .00861 | .01421 | .00713 | 20.463 |
| #2 | .00088 | 35.982 | -.00083 | .00887 | .01419 | .00740 | 20.520 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 1.2943 | 11.332 | .61449 | .53206 | .01859 | .00302 | .02061 |
| SDev | .0121 | .014 | .00185 | .00350 | .00006 | .00289 | .00000 |
| %RSD | .93313 | .12495 | .30179 | .65884 | .31514 | 95.654 | .00419 |
| #1 | 1.3028 | 11.322 | .61318 | .53454 | .01855 | .00098 | .02060 |
| #2 | 1.2858 | 11.342 | .61581 | .52958 | .01863 | .00506 | .02061 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .02057 | .01239 | .00806 | .00454 | .00048 | .05527 | .01840 |
| SDev | .00052 | .00011 | .00041 | .00391 | .00419 | .00075 | .00008 |
| %RSD | 2.5420 | .91154 | 5.1081 | 86.079 | 880.18 | 1.3566 | .45587 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .02094 | .01247 | .00835 | .00730 | .00344 | .05580 | .01834 |
| #2 | .02020 | .01231 | .00777 | .00178 | -.00249 | .05474 | .01846 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 1.2056 | .00065 | -.00007 | .19100 |
| SDev | .0064 | .00178 | .00072 | .00077 |
| %RSD | .52905 | 274.02 | 1041.8 | .40502 |
| #1 | 1.2011 | -.00061 | -.00058 | .19046 |
| #2 | 1.2101 | .00191 | .00044 | .19155 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-14MS 2X Operator: SW
Run Time: 09/17/04 12:52:19
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .32876 | .31574 | .26613 | .23732 | .03085 | 53.783 | 3.3128 |
| SDev | .00297 | .00451 | .00358 | .00496 | .00018 | .092 | .0020 |
| %RSD | .90214 | 1.4283 | 1.3448 | 2.0919 | .57405 | .17160 | .05916 |
| #1 | .33086 | .31255 | .26360 | .24083 | .03097 | 53.848 | 3.3114 |
| #2 | .32666 | .31893 | .26866 | .23381 | .03072 | 53.718 | 3.3142 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .24781 | 168.08 | .27333 | .27528 | .29783 | .28009 | 110.30 |
| SDev | .00115 | .69 | .00067 | .00084 | .00031 | .00013 | .40 |
| %RSD | .46429 | .40884 | .24650 | .30441 | .10554 | .04736 | .36171 |
| #1 | .24700 | 167.59 | .27285 | .27469 | .29761 | .28019 | 110.02 |
| #2 | .24862 | 168.56 | .27380 | .27587 | .29805 | .28000 | 110.58 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 7.0227 | 54.472 | 3.1293 | 2.5224 | .32336 | .00295 | .31528 |
| SDev | .0130 | .092 | .0097 | .0105 | .00131 | .00100 | .00136 |
| %RSD | .18547 | .16906 | .31121 | .41577 | .40394 | 33.690 | .43091 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | 7.0320 | 54.407 | 3.1224 | 2.5298 | .32244 | .00225 | .31431 |
| #2 | 7.0135 | 54.537 | 3.1362 | 2.5150 | .32428 | .00366 | .31624 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .34232 | .32555 | .32007 | .24691 | -.00261 | .32132 | .08813 |
| SDev | .00301 | .00229 | .00202 | .00212 | .00386 | .00121 | .00010 |
| %RSD | .88044 | .70408 | .63118 | .85838 | 147.91 | .37574 | .11598 |
| #1 | .34019 | .32393 | .31865 | .24841 | -.00534 | .32046 | .08806 |
| #2 | .34446 | .32717 | .32150 | .24541 | .00012 | .32217 | .08821 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 6.5717 | .01677 | .00825 | .77147 |
| SDev | .0125 | .00187 | .00048 | .00090 |
| %RSD | .19017 | 11.147 | 5.8208 | .11637 |
| #1 | 6.5629 | .01809 | .00859 | .77084 |
| #2 | 6.5806 | .01545 | .00791 | .77211 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: CCV Operator: SW
Run Time: 09/17/04 12:54:52
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .49871 | .47713 | .52559 | .49389 | .48745 | 49.177 | .48505 |
| SDev | .00067 | .00151 | .00338 | .00505 | .00057 | .059 | .00148 |
| %RSD | .13331 | .31654 | .64273 | 1.0236 | .11744 | .12084 | .30534 |
| #1 | .49918 | .47820 | .52798 | .49746 | .48704 | 49.135 | .48401 |
| #2 | .49824 | .47606 | .52320 | .49031 | .48785 | 49.219 | .48610 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | | | | .50000 | 50.500 | .50000 |
| Range | | | | | 10.000 | 10.000 | 10.000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .50577 | 49.757 | .48181 | .48712 | .47897 | .49354 | 19.942 |
| SDev | .00294 | .245 | .00286 | .00197 | .00249 | .00047 | .111 |
| %RSD | .58091 | .49187 | .59294 | .40419 | .51989 | .09598 | .55744 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .50369 | 49.584 | .47979 | .48573 | .47721 | .49321 | 19.864 |
| #2 | .50785 | 49.931 | .48383 | .48851 | .48073 | .49388 | 20.021 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | 50.500 | .50000 | .50000 | .50000 | .50000 | 20.500 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 19.809 | 49.499 | .47793 | 20.408 | .47403 | .51958 | .49452 |
| SDev | .033 | .218 | .00222 | .014 | .00178 | .00330 | .00156 |
| %RSD | .16439 | .44054 | .46532 | .06956 | .37530 | .63499 | .31494 |
| #1 | 19.786 | 49.345 | .47636 | 20.398 | .47277 | .51725 | .49342 |
| #2 | 19.832 | 49.653 | .47951 | 20.418 | .47529 | .52191 | .49562 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | 20.000 | 50.500 | .50000 | 20.500 | .50000 | .50000 | .50000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .49781 | .50683 | .48431 | .50444 | .51160 | .47411 | .99425 |
| SDev | .00472 | .00544 | .00123 | .00450 | .00196 | .00200 | .00396 |
| %RSD | .94883 | 1.0736 | .25370 | .89147 | .38368 | .42211 | .39809 |
| #1 | .49447 | .50298 | .48518 | .50762 | .51299 | .47269 | .99145 |
| #2 | .50115 | .51067 | .48345 | .50126 | .51022 | .47552 | .99704 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | .50000 | .50000 | .50000 | .50000 | .50000 | 1.0000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .27328 | .50321 | .49629 | .47944 |
| SDev | .00052 | .00048 | .00289 | .00166 |
| %RSD | .19155 | .09561 | .58247 | .34641 |
| #1 | .27291 | .50287 | .49424 | .47827 |
| #2 | .27365 | .50355 | .49833 | .48062 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .25000 | .50000 | .50000 | .50000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 |

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Method: 28EL Sample Name: CCB Operator: SW
Run Time: 09/17/04 12:57:25
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | -.00338 | -.00084 | .00389 | -.00156 | .00061 | .01830 | .00009 |
| SDev | .00752 | .00306 | .01677 | .00175 | .00093 | .00192 | .00002 |
| %RSD | 222.66 | 364.17 | 430.62 | 111.95 | 152.46 | 10.505 | 27.004 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .00194 | -.00301 | .01575 | -.00280 | .00126 | .01966 | .00010 |
| #2 | -.00869 | .00132 | -.00796 | -.00033 | -.00005 | .01694 | .00007 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | .01000 | .20000 | .10000 |
| Low | | | | | -.01000 | -.20000 | -.10000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00005 | .05620 | -.00053 | -.00002 | -.00018 | .00063 | .03630 |
| SDev | .00002 | .00199 | .00014 | .00004 | .00043 | .00047 | .00199 |
| %RSD | 34.065 | 3.5374 | 25.889 | 173.17 | 244.36 | 75.717 | 5.4708 |
| #1 | .00007 | .05761 | -.00043 | -.00005 | .00013 | .00096 | .03770 |
| #2 | .00004 | .05480 | -.00063 | .00000 | -.00048 | .00029 | .03489 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .00500 | 1.0000 | .00500 | .01000 | .01000 | .01000 | .10000 |
| Low | -.00500 | -1.0000 | -.00500 | -.01000 | -.01000 | -.01000 | -.10000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .10352 | .01683 | .00046 | .09521 | .00100 | .00142 | -.00052 |
| SDev | .05314 | .00128 | .00010 | .00097 | .00009 | .00192 | .00039 |
| %RSD | 51.331 | 7.5786 | 22.596 | 1.0137 | 8.4630 | 134.41 | 74.935 |
| #1 | .14109 | .01774 | .00053 | .09590 | .00094 | .00278 | -.00024 |
| #2 | .06594 | .01593 | .00038 | .09453 | .00107 | .00007 | -.00080 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1.0000 | 1.0000 | .01000 | 1.0000 | .02000 | .02000 | .01000 |
| Low | -1.0000 | -1.0000 | -.01000 | -1.0000 | -.02000 | -.02000 | -.01000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | -.00318 | .00132 | -.00168 | .00025 | -.00045 | .00026 | .00251 |
| SDev | .00013 | .00071 | .00046 | .00442 | .00089 | .00031 | .00030 |
| %RSD | 4.1056 | 53.696 | 27.374 | 1736.1 | 198.73 | 116.89 | 11.808 |
| #1 | -.00328 | .00182 | -.00136 | .00338 | .00018 | .00048 | .00272 |
| #2 | -.00309 | .00082 | -.00201 | -.00287 | -.00107 | .00005 | .00230 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .02000 | .01000 | .00300 | .00500 | .01000 | .01000 | .10000 |
| Low | -.02000 | -.01000 | -.00300 | -.00500 | -.01000 | -.01000 | -.10000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .00061 | -.00211 | .00095 | .00026 |
| SDev | .00020 | .00056 | .00168 | .00004 |
| %RSD | 32.721 | 26.622 | 177.01 | 15.256 |
| #1 | .00047 | -.00250 | .00214 | .00029 |
| #2 | .00076 | -.00171 | -.00024 | .00024 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .05000 | .05000 | .01000 | .01000 |

| | | | | |
|---|---|---|---|---|
| Low | -.05000 | -.05000 | -.01000 | -.01000 |

Method: 28EL Sample Name: 0409018-14MSD 2X Operator: SW
Run Time: 09/17/04 12:59:57
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .33354 | .31495 | .26370 | .23287 | .03070 | 51.036 | 1.4614 |
| SDev | .00229 | .00145 | .01016 | .00147 | .00010 | .149 | .0005 |
| %RSD | .68669 | .46069 | 3.8520 | .63276 | .31461 | .29105 | .03311 |
| #1 | .33192 | .31392 | .27088 | .23391 | .03077 | 51.141 | 1.4611 |
| #2 | .33516 | .31598 | .25651 | .23183 | .03063 | 50.931 | 1.4618 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .24731 | 147.50 | .27380 | .27338 | .29323 | .27524 | 108.08 |
| SDev | .00047 | .20 | .00031 | .00051 | .00028 | .00116 | .17 |
| %RSD | .19070 | .13771 | .11434 | .18538 | .09380 | .42001 | .15451 |
| #1 | .24697 | 147.36 | .27402 | .27302 | .29342 | .27606 | 107.96 |
| #2 | .24764 | 147.65 | .27358 | .27373 | .29303 | .27443 | 108.20 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 6.5144 | 51.901 | 2.9954 | 2.4833 | .32402 | .00685 | .30827 |
| SDev | .0218 | .034 | .0040 | .0084 | .00146 | .00094 | .00039 |
| %RSD | .33528 | .06559 | .13332 | .33840 | .44930 | 13.671 | .12634 |
| #1 | 6.5299 | 51.925 | 2.9926 | 2.4892 | .32299 | .00619 | .30800 |
| #2 | 6.4990 | 51.877 | 2.9983 | 2.4773 | .32505 | .00751 | .30855 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .34316 | .31784 | .32114 | .24314 | -.00170 | .28637 | .08480 |
| SDev | .00131 | .00307 | .00173 | .00436 | .00159 | .00242 | .00049 |
| %RSD | .38187 | .96729 | .53885 | 1.7954 | 93.934 | .84596 | .58240 |
| #1 | .34223 | .31566 | .31992 | .24622 | -.00282 | .28465 | .08445 |
| #2 | .34408 | .32001 | .32237 | .24005 | -.00057 | .28808 | .08515 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 6.3463 | .01392 | .00825 | .76045 |
| SDev | .0063 | .00318 | .00096 | .00023 |
| %RSD | .09903 | 22.808 | 11.642 | .03013 |
| #1 | 6.3419 | .01617 | .00757 | .76029 |
| #2 | 6.3508 | .01168 | .00893 | .76061 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-2A Operator: SW
Run Time: 09/17/04 13:02:28
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .61346 | .59484 | 2.1384 | 2.1112 | -.00043 | 94.982 | 4.2523 |
| SDev | .00544 | .00356 | .0074 | .0068 | .00025 | .178 | .0002 |
| %RSD | .88653 | .59855 | .34398 | .32425 | 57.218 | .18788 | .00413 |
| #1 | .60961 | .59232 | 2.1332 | 2.1063 | -.00061 | 95.108 | 4.2524 |
| #2 | .61730 | .59736 | 2.1436 | 2.1160 | -.00026 | 94.856 | 4.2521 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .05841 | 235.09 | .04431 | .54426 | .30443 | .34243 | 176.75 |
| SDev | .00006 | .36 | .00063 | .00008 | .00109 | .00066 | .11 |
| %RSD | .09696 | .15132 | 1.4224 | .01451 | .35711 | .19369 | .06442 |
| #1 | .05837 | 234.84 | .04386 | .54431 | .30366 | .34290 | 176.67 |
| #2 | .05845 | 235.35 | .04475 | .54420 | .30520 | .34196 | 176.83 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 13.716 | 64.506 | 4.4090 | 2.0005 | .61394 | .71212 | .71600 |
| SDev | .023 | .031 | .0044 | .0013 | .00154 | .01485 | .00038 |
| %RSD | .16492 | .04805 | .09874 | .06452 | .25070 | 2.0852 | .05363 |
| #1 | 13.700 | 64.528 | 4.4059 | 1.9996 | .61286 | .70162 | .71627 |
| #2 | 13.732 | 64.485 | 4.4121 | 2.0014 | .61503 | .72262 | .71572 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |
| Elem | Zn | As | Pb | Se | Tl | Ti | B |
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | 1.1655 | 2.0831 | .60104 | 2.1202 | 2.0231 | 1.0260 | 1.1560 |
| SDev | .0017 | .0049 | .00419 | .0070 | .0057 | .0033 | .0008 |
| %RSD | .14715 | .23550 | .69644 | .33087 | .28294 | .31786 | .06494 |
| #1 | 1.1643 | 2.0866 | .59808 | 2.1153 | 2.0272 | 1.0237 | 1.1565 |
| #2 | 1.1667 | 2.0796 | .60400 | 2.1252 | 2.0191 | 1.0283 | 1.1554 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| | | | | |
|---|---|---|---|---|
| Elem | Si | Sn | Mo | Sr |
| Units | ppm | ppm | ppm | ppm |
| Avge | 13.005 | .51337 | .95830 | 1.2192 |
| SDev | .031 | .00227 | .00387 | .0002 |
| %RSD | .24194 | .44305 | .40350 | .01858 |
| #1 | 13.028 | .51176 | .95557 | 1.2190 |
| #2 | 12.983 | .51498 | .96104 | 1.2193 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

Method: 28EL Sample Name: IP040916-3MB Operator: SW
Run Time: 09/17/04 13:06:16
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | -.00721 | -.00019 | .00516 | .00032 | .00029 | -.00053 | .00035 |
| SDev | .00380 | .00057 | .01243 | .00310 | .00051 | .00151 | .00001 |
| %RSD | 52.683 | 301.82 | 240.76 | 958.47 | 176.05 | 285.77 | 3.4099 |
| #1 | -.00453 | .00022 | .01395 | -.00187 | -.00007 | .00054 | .00034 |
| #2 | -.00990 | -.00059 | -.00363 | .00251 | .00065 | -.00159 | .00036 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | -.00004 | .04624 | -.00091 | .00008 | -.00038 | .00087 | .15482 |
| SDev | .00000 | .00154 | .00017 | .00011 | .00007 | .00002 | .00492 |
| %RSD | .53152 | 3.3250 | 18.795 | 133.64 | 17.205 | 2.1860 | 3.1780 |
| #1 | -.00004 | .04732 | -.00103 | .00000 | -.00043 | .00088 | .15830 |
| #2 | -.00004 | .04515 | -.00079 | .00016 | -.00033 | .00085 | .15134 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .09033 | -.00798 | .00056 | .09484 | .00065 | .00128 | -.00025 |
| SDev | .00355 | .00025 | .00003 | .00079 | .00008 | .00111 | .00039 |
| %RSD | 3.9301 | 3.1000 | 5.4683 | .83276 | 13.096 | 86.714 | 156.79 |
| #1 | .09284 | -.00781 | .00059 | .09540 | .00070 | .00207 | .00003 |
| #2 | .08782 | -.00816 | .00054 | .09428 | .00059 | .00050 | -.00052 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | -.00189 | .00172 | -.00253 | .00193 | .00302 | .00035 | .00369 |
| SDev | .00013 | .00212 | .00165 | .00207 | .00221 | .00011 | .00016 |
| %RSD | 6.9170 | 123.07 | 65.157 | 107.12 | 73.217 | 31.931 | 4.4675 |
| #1 | -.00198 | .00321 | -.00136 | .00340 | .00459 | .00027 | .00381 |
| #2 | -.00180 | .00022 | -.00369 | .00047 | .00146 | .00043 | .00358 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .01373 | .00340 | .00044 | .00018 |
| SDev | .00121 | .00066 | .00096 | .00001 |
| %RSD | 8.8042 | 19.306 | 218.18 | 3.2807 |
| #1 | .01458 | .00386 | -.00024 | .00017 |
| #2 | .01287 | .00293 | .00112 | .00018 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: IP040916-3LCS Operator: SW
Run Time: 09/17/04 13:08:48
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .48853 | .47064 | 2.0299 | 1.9957 | .04498 | 1.8967 | 1.9333 |
| SDev | .00671 | .00428 | .0069 | .0237 | .00013 | .0244 | .0186 |
| %RSD | 1.3741 | .90975 | .34018 | 1.1874 | .28753 | 1.2860 | .96234 |
| #1 | .49328 | .46761 | 2.0348 | 1.9789 | .04507 | 1.8794 | 1.9201 |
| #2 | .48378 | .47366 | 2.0251 | 2.0124 | .04489 | 1.9139 | 1.9464 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .04989 | .03957 | .04789 | .48546 | .19171 | .24665 | 1.0907 |
| SDev | .00002 | .00044 | .00018 | .00197 | .00073 | .00286 | .0055 |
| %RSD | .04060 | 1.1048 | .36824 | .40665 | .38246 | 1.1603 | .50565 |
| #1 | .04990 | .03988 | .04801 | .48407 | .19119 | .24462 | 1.0946 |
| #2 | .04987 | .03926 | .04776 | .48686 | .19223 | .24867 | 1.0868 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .06681 | -.00920 | .48078 | .10156 | .48019 | .50403 | .48244 |
| SDev | .03983 | .00000 | .00112 | .00064 | .00059 | .00072 | .00273 |
| %RSD | 59.613 | .00000 | .23237 | .63240 | .12282 | .14192 | .56512 |
| #1 | .09498 | -.00920 | .47999 | .10201 | .47977 | .50353 | .48051 |
| #2 | .03865 | -.00920 | .48157 | .10110 | .48061 | .50454 | .48436 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .49262 | 1.9932 | .47660 | 2.0071 | 1.9600 | .47173 | .97667 |
| SDev | .00157 | .0065 | .00062 | .0135 | .0137 | .00244 | .00842 |
| %RSD | .31960 | .32686 | .13017 | .67290 | .70074 | .51644 | .86215 |
| #1 | .49373 | 1.9886 | .47616 | 1.9975 | 1.9503 | .47000 | .97071 |
| #2 | .49150 | 1.9978 | .47703 | 2.0166 | 1.9697 | .47345 | .98262 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 1.2845 | .48578 | .95830 | .46994 |
| SDev | .0098 | .00255 | .00580 | .00438 |
| %RSD | .75926 | .52527 | .60524 | .93131 |
| #1 | 1.2776 | .48398 | .95420 | .46685 |
| #2 | 1.2914 | .48759 | .96240 | .47304 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: IP040916-3LCSD Operator: SW
Run Time: 09/17/04 13:11:19
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .48920 | .47104 | 1.9985 | 1.9727 | .04484 | 1.9009 | 1.9400 |
| SDev | .00160 | .00377 | .0081 | .0069 | .00000 | .0056 | .0070 |
| %RSD | .32791 | .80017 | .40658 | .35168 | .00000 | .29211 | .36029 |
| #1 | .48806 | .46838 | 2.0043 | 1.9678 | .04484 | 1.9048 | 1.9350 |
| #2 | .49033 | .47371 | 1.9928 | 1.9776 | .04484 | 1.8969 | 1.9449 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .04991 | .03525 | .04783 | .48580 | .19264 | .24837 | .92825 |
| SDev | .00009 | .00044 | .00017 | .00040 | .00029 | .00011 | .00459 |
| %RSD | .18654 | 1.2359 | .35724 | .08254 | .14953 | .04578 | .49445 |
| #1 | .04985 | .03494 | .04771 | .48551 | .19284 | .24846 | .93150 |
| #2 | .04998 | .03556 | .04795 | .48608 | .19243 | .24829 | .92500 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .07111 | -.01410 | .48096 | .10226 | .48142 | .50177 | .48340 |
| SDev | .00000 | .00148 | .00133 | .00070 | .00334 | .00467 | .00175 |
| %RSD | .00000 | 10.525 | .27744 | .68500 | .69446 | .93069 | .36278 |
| #1 | .07111 | -.01305 | .48002 | .10275 | .47905 | .50507 | .48216 |
| #2 | .07111 | -.01515 | .48191 | .10176 | .48378 | .49846 | .48464 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .49215 | 1.9910 | .47709 | 1.9813 | 1.9625 | .47394 | .97792 |
| SDev | .00092 | .0060 | .00305 | .0019 | .0018 | .00176 | .00455 |
| %RSD | .18661 | .29997 | .63891 | .09699 | .09042 | .37123 | .46529 |
| #1 | .49150 | 1.9868 | .47493 | 1.9800 | 1.9613 | .47270 | .97471 |
| #2 | .49280 | 1.9952 | .47924 | 1.9827 | 1.9638 | .47518 | .98114 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 1.3927 | .48526 | .96121 | .47162 |
| SDev | .0020 | .00328 | .00459 | .00181 |
| %RSD | .14261 | .67604 | .47772 | .38403 |
| #1 | 1.3941 | .48758 | .95796 | .47034 |
| #2 | 1.3913 | .48294 | .96445 | .47290 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

Method: 28EL Sample Name: F2 0408252-4 Operator: SW
Run Time: 09/17/04 13:14:53
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | -.00536 | .00444 | .02134 | -.00161 | .00011 | .05488 | .00198 |
| SDev | .00124 | .00182 | .00458 | .00169 | .00015 | .00097 | .00001 |
| %RSD | 23.228 | 41.098 | 21.454 | 105.31 | 142.58 | 1.7630 | .60059 |
| #1 | -.00448 | .00315 | .02458 | -.00041 | .00021 | .05557 | .00197 |
| #2 | -.00624 | .00573 | .01810 | -.00280 | -.00000 | .05420 | .00198 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | -.00004 | .19324 | -.00106 | .00163 | -.00092 | .00079 | .02225 |
| SDev | .00000 | .00069 | .00004 | .00033 | .00017 | .00013 | .00323 |
| %RSD | .00000 | .35593 | 3.7337 | 20.123 | 18.552 | 16.866 | 14.509 |
| #1 | -.00004 | .19373 | -.00109 | .00186 | -.00104 | .00088 | .02454 |
| #2 | -.00004 | .19276 | -.00103 | .00140 | -.00080 | .00069 | .01997 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .11297 | .04786 | .00018 | .09515 | .00155 | .00131 | -.00025 |
| SDev | .01438 | .00051 | .00002 | .00006 | .00009 | .00175 | .00000 |
| %RSD | 12.732 | 1.0553 | 11.504 | .06148 | 5.5368 | 133.79 | .34939 |
| #1 | .12314 | .04750 | .00019 | .09519 | .00161 | .00254 | -.00025 |
| #2 | .10280 | .04821 | .00016 | .09511 | .00149 | .00007 | -.00025 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .03129 | .00066 | .00118 | .00603 | .00612 | .00043 | .00962 |
| SDev | .00052 | .00066 | .00080 | .00265 | .00133 | .00018 | .00062 |
| %RSD | 1.6711 | 100.09 | 68.204 | 43.971 | 21.681 | 41.976 | 6.4084 |
| #1 | .03092 | .00113 | .00061 | .00791 | .00518 | .00056 | .01006 |
| #2 | .03166 | .00019 | .00174 | .00416 | .00705 | .00031 | .00919 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .02759 | -.00476 | -.00007 | .28113 |
| SDev | .00176 | .00094 | .00072 | .00006 |
| %RSD | 6.3918 | 19.727 | 1041.8 | .02214 |
| #1 | .02634 | -.00410 | .00044 | .28117 |
| #2 | .02884 | -.00542 | -.00058 | .28108 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-2 Operator: SW
Run Time: 09/17/04 13:17:25
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .17112 | .16448 | .01846 | .00230 | -.00029 | 208.30 | 2.0854 |
| SDev | .00446 | .00109 | .02544 | .00257 | .00002 | .36 | .0036 |
| %RSD | 2.6054 | .66281 | 137.80 | 111.58 | 5.6400 | .17105 | .17376 |
| #1 | .17427 | .16525 | .00047 | .00412 | -.00028 | 208.55 | 2.0880 |
| #2 | .16797 | .16371 | .03646 | .00049 | -.00030 | 208.04 | 2.0829 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01699 | 370.13 | -.00034 | .07155 | .13929 | .21601 | H212.94 |
| SDev | .00008 | 1.69 | .00003 | .00008 | .00067 | .00036 | .45 |
| %RSD | .44491 | .45539 | 8.2677 | .10917 | .47932 | .16671 | .21340 |
| #1 | .01694 | 368.94 | -.00032 | .07161 | .13881 | .21627 | H212.62 |
| #2 | .01705 | 371.33 | -.00036 | .07150 | .13976 | .21576 | H213.27 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC High |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 84.425 | 130.23 | 4.8710 | 7.6003 | .19644 | .00486 | .21191 |
| SDev | .162 | .21 | .0088 | .0208 | .00079 | .00102 | .00078 |
| %RSD | .19215 | .16245 | .18020 | .27318 | .40284 | 20.994 | .36655 |
| #1 | 84.540 | 130.08 | 4.8648 | 7.6150 | .19700 | .00413 | .21245 |
| #2 | 84.310 | 130.38 | 4.8772 | 7.5856 | .19589 | .00558 | .21136 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .81022 | .09272 | .16669 | .00768 | -.00187 | 2.6148 | .14587 |
| SDev | .00460 | .00124 | .00221 | .00676 | .00122 | .0022 | .00123 |
| %RSD | .56823 | 1.3331 | 1.3269 | 87.976 | 65.232 | .08233 | .84508 |
| #1 | .80696 | .09359 | .16825 | .00290 | -.00273 | 2.6133 | .14674 |
| #2 | .81347 | .09184 | .16513 | .01246 | -.00101 | 2.6164 | .14500 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 15.933 | .03489 | .00638 | .89102 |
| SDev | .035 | .00104 | .00024 | .00097 |
| %RSD | .21989 | 2.9914 | 3.7620 | .10910 |
| #1 | 15.908 | .03415 | .00655 | .89171 |
| #2 | 15.957 | .03563 | .00621 | .89033 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-3 Operator: SW
Run Time: 09/17/04 13:19:57
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .17110 | .16275 | .00249 | .00494 | -.00004 | 208.78 | 1.8654 |
| SDev | .00069 | .00041 | .00028 | .00477 | .00008 | .41 | .0070 |
| %RSD | .40503 | .25366 | 11.383 | 96.530 | 218.45 | .19555 | .37757 |
| #1 | .17159 | .16304 | .00229 | .00157 | -.00009 | 209.06 | 1.8704 |
| #2 | .17061 | .16246 | .00269 | .00832 | .00002 | 208.49 | 1.8604 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01656 | 303.45 | .00020 | .07431 | .13958 | .21809 | H212.54 |
| SDev | .00002 | .92 | .00015 | .00023 | .00030 | .00114 | .13 |
| %RSD | .11354 | .30195 | 74.350 | .31092 | .21570 | .52141 | .06089 |
| #1 | .01654 | 302.80 | .00031 | .07415 | .13937 | .21889 | H212.45 |
| #2 | .01657 | 304.10 | .00010 | .07448 | .13980 | .21728 | H212.63 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC High |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 80.330 | 118.36 | 5.1888 | 6.1784 | .23440 | .00774 | .20861 |
| SDev | .183 | .15 | .0037 | .0104 | .00085 | .00111 | .00000 |
| %RSD | .22832 | .12260 | .07184 | .16894 | .36379 | 14.292 | .00028 |
| #1 | 80.459 | 118.26 | 5.1862 | 6.1858 | .23380 | .00853 | .20861 |
| #2 | 80.200 | 118.46 | 5.1915 | 6.1710 | .23501 | .00696 | .20861 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | Zn | As | Pb | Se | Tl | Ti | B |
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .83003 | .08312 | .16553 | .00413 | -.00204 | 2.7284 | .14123 |
| SDev | .00421 | .00081 | .00051 | .00328 | .00308 | .0081 | .00128 |
| %RSD | .50720 | .97872 | .30577 | 79.405 | 150.96 | .29795 | .90890 |
| #1 | .82706 | .08254 | .16589 | .00181 | .00014 | 2.7342 | .14214 |
| #2 | .83301 | .08369 | .16517 | .00644 | -.00422 | 2.7227 | .14033 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| | | | | |
|---|---|---|---|---|
| Elem | Si | Sn | Mo | Sr |
| Units | ppm | ppm | ppm | ppm |
| Avge | 15.795 | .03897 | .00553 | .78041 |
| SDev | .043 | .00211 | .00048 | .00241 |
| %RSD | .27465 | 5.4225 | 8.6783 | .30931 |
| #1 | 15.765 | .03747 | .00519 | .78212 |
| #2 | 15.826 | .04046 | .00587 | .77870 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-4 Operator: SW
Run Time: 09/17/04 13:22:30
Comment:
Mode: CONC Corr. Factor: 1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
| Units | | | | | PPM | PPM | PPM |
| Avge | .15697 | .14319 | .00782 | .00338 | .00028 | 180.99 | 2.0016 |
| SDev | .00237 | .00249 | .01181 | .00490 | .00037 | 1.01 | .0084 |
| %RSD | 1.5115 | 1.7413 | 151.09 | 144.86 | 131.25 | .55998 | .41829 |
| #1 | .15865 | .14496 | .01617 | -.00008 | .00054 | 180.27 | 1.9957 |
| #2 | .15530 | .14143 | -.00053 | .00685 | .00002 | 181.71 | 2.0075 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01532 | 449.80 | .00054 | .06430 | .12362 | .19473 | 184.44 |
| SDev | .00006 | .89 | .00004 | .00041 | .00004 | .00101 | .35 |
| %RSD | .36881 | .19857 | 8.0240 | .63320 | .03176 | .51585 | .19064 |
| #1 | .01528 | 449.17 | .00057 | .06459 | .12365 | .19402 | 184.19 |
| #2 | .01536 | 450.43 | .00051 | .06401 | .12360 | .19544 | 184.69 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 80.442 | 120.54 | 4.3671 | 16.945 | .17725 | .00973 | .18734 |
| SDev | .528 | .33 | .0080 | .130 | .00124 | .00047 | .00019 |
| %RSD | .65670 | .27690 | .18317 | .76566 | .69811 | 4.8536 | .10361 |
| #1 | 80.068 | 120.31 | 4.3615 | 16.853 | .17638 | .00939 | .18747 |
| #2 | 80.815 | 120.78 | 4.3728 | 17.037 | .17813 | .01006 | .18720 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .72254 | .08564 | .14778 | .00486 | -.00141 | 2.2563 | .12579 |
| SDev | .00053 | .00037 | .00245 | .00066 | .00142 | .0049 | .00072 |
| %RSD | .07277 | .42874 | 1.6600 | 13.655 | 101.09 | .21661 | .57082 |
| #1 | .72291 | .08538 | .14952 | .00533 | -.00241 | 2.2528 | .12630 |
| #2 | .72217 | .08590 | .14605 | .00439 | -.00040 | 2.2598 | .12528 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 15.590 | .03405 | .00553 | 1.3228 |
| SDev | .078 | .00110 | .00000 | .0050 |
| %RSD | .50333 | 3.2274 | .00000 | .37683 |
| #1 | 15.534 | .03482 | .00553 | 1.3193 |
| #2 | 15.645 | .03327 | .00553 | 1.3264 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-5 Operator: SW
Run Time: 09/17/04 13:25:01
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .17182 | .16181 | .01280 | .00220 | -.00030 | 195.42 | 2.0365 |
| SDev | .00015 | .00450 | .00582 | .00027 | .00026 | .36 | .0046 |
| %RSD | .09007 | 2.7810 | 45.454 | 12.123 | 86.780 | .18367 | .22750 |
| #1 | .17193 | .15863 | .01692 | .00239 | -.00049 | 195.68 | 2.0398 |
| #2 | .17171 | .16500 | .00869 | .00201 | -.00012 | 195.17 | 2.0332 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01648 | 411.62 | .00073 | .07001 | .13333 | .20985 | H204.30 |
| SDev | .00006 | 2.38 | .00031 | .00047 | .00050 | .00089 | .89 |
| %RSD | .34221 | .57819 | 42.087 | .67390 | .37308 | .42449 | .43334 |
| #1 | .01644 | 409.94 | .00095 | .06968 | .13298 | .21048 | H203.68 |
| #2 | .01652 | 413.30 | .00052 | .07035 | .13369 | .20922 | H204.93 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC High |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 82.055 | 133.61 | 4.8540 | 8.0510 | .19279 | .01163 | .20449 |
| SDev | .039 | .43 | .0165 | .0030 | .00070 | .00303 | .00000 |
| %RSD | .04719 | .32159 | .34051 | .03707 | .36422 | 26.036 | .00000 |
| #1 | 82.083 | 133.31 | 4.8423 | 8.0531 | .19229 | .00949 | .20449 |
| #2 | 82.028 | 133.91 | 4.8656 | 8.0489 | .19329 | .01378 | .20449 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .78836 | .08941 | .16515 | .00573 | -.00060 | 2.3558 | .14134 |
| SDev | .00658 | .00170 | .00295 | .00212 | .00178 | .0004 | .00027 |
| %RSD | .83412 | 1.9057 | 1.7863 | 36.909 | 294.52 | .01899 | .19376 |
| #1 | .78371 | .08821 | .16306 | .00723 | .00065 | 2.3554 | .14115 |
| #2 | .79301 | .09062 | .16723 | .00424 | -.00186 | 2.3561 | .14154 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 9.2788 | .04043 | .00587 | .89846 |
| SDev | .0257 | .00075 | .00000 | .00145 |
| %RSD | .27720 | 1.8623 | .00000 | .16092 |

| | | | | |
|---|---|---|---|---|
| #1 | 9.2606 | .03990 | .00587 | .89949 |
| #2 | 9.2970 | .04096 | .00587 | .89744 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: CCV Operator: SW
Run Time: 09/17/04 13:27:33
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .50436 | .48198 | .53206 | .49800 | .49106 | 49.894 | .49339 |
| SDev | .00583 | .00075 | .00575 | .00221 | .00039 | .111 | .00032 |
| %RSD | 1.1549 | .15516 | 1.0815 | .44364 | .07887 | .22167 | .06536 |
| #1 | .50848 | .48145 | .52799 | .49956 | .49078 | 49.816 | .49362 |
| #2 | .50024 | .48251 | .53613 | .49643 | .49133 | 49.972 | .49316 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | | | | .50000 | 50.500 | .50000 |
| Range | | | | | 10.000 | 10.000 | 10.000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .50960 | 50.093 | .48525 | .49032 | .48158 | .50005 | 20.050 |
| SDev | .00036 | .065 | .00073 | .00256 | .00134 | .00055 | .043 |
| %RSD | .07061 | .12923 | .14956 | .52125 | .27759 | .10988 | .21586 |
| #1 | .50935 | 50.047 | .48474 | .48851 | .48063 | .49967 | 20.020 |
| #2 | .50986 | 50.138 | .48576 | .49213 | .48253 | .50044 | 20.081 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | 50.500 | .50000 | .50000 | .50000 | .50000 | 20.500 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 20.096 | 50.083 | .48273 | 20.693 | .47793 | .52484 | .49755 |
| SDev | .072 | .159 | .00048 | .078 | .00018 | .00558 | .00078 |
| %RSD | .35974 | .31773 | .09857 | .37474 | .03711 | 1.0634 | .15645 |
| #1 | 20.044 | 49.971 | .48239 | 20.638 | .47805 | .52089 | .49700 |
| #2 | 20.147 | 50.196 | .48306 | 20.748 | .47780 | .52879 | .49810 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | 20.000 | 50.500 | .50000 | 20.500 | .50000 | .50000 | .50000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .50264 | .51662 | .48943 | .50934 | .51179 | .47680 | 1.0042 |
| SDev | .00394 | .00176 | .00144 | .00044 | .00353 | .00021 | .0014 |
| %RSD | .78314 | .34017 | .29437 | .08688 | .69018 | .04413 | .14238 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .49985 | .51538 | .49045 | .50903 | .51429 | .47665 | 1.0032 |
| #2 | .50542 | .51786 | .48841 | .50965 | .50929 | .47694 | 1.0053 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | .50000 | .50000 | .50000 | .50000 | .50000 | 1.0000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | Q.28255 | .50875 | .50225 | .48627 |
| SDev | .00011 | .00245 | .00120 | .00056 |
| %RSD | .03892 | .48072 | .23982 | .11518 |
| #1 | Q.28263 | .50702 | .50140 | .48667 |
| #2 | Q.28248 | .51048 | .50310 | .48588 |
| Errors | QC Fail | QC Pass | QC Pass | QC Pass |
| Value | .25000 | .50000 | .50000 | .50000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 |

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Method: 28EL Sample Name: CCB Operator: SW
Run Time: 09/17/04 13:30:06
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | -.00430 | .00129 | .00298 | .00098 | .00039 | .03635 | .00021 |
| SDev | .00267 | .00228 | .00095 | .00348 | .00021 | .00262 | .00002 |
| %RSD | 62.025 | 176.32 | 31.962 | 354.81 | 55.609 | 7.2025 | 11.557 |
| #1 | -.00619 | .00290 | .00231 | .00344 | .00024 | .03820 | .00019 |
| #2 | -.00241 | -.00032 | .00366 | -.00148 | .00054 | .03449 | .00022 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | .01000 | .20000 | .10000 |
| Low | | | | | -.01000 | -.20000 | -.10000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00009 | .08024 | -.00056 | .00037 | -.00011 | .00069 | .04948 |
| SDev | .00000 | .00045 | .00007 | .00007 | .00026 | .00011 | .00335 |
| %RSD | .10804 | .55654 | 12.811 | 20.018 | 233.78 | 16.415 | 6.7667 |
| #1 | .00009 | .07992 | -.00051 | .00042 | .00007 | .00077 | .05185 |
| #2 | .00009 | .08055 | -.00061 | .00031 | -.00030 | .00061 | .04711 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .00500 | 1.0000 | .00500 | .01000 | .01000 | .01000 | .10000 |
| Low | -.00500 | -1.0000 | -.00500 | -.01000 | -.01000 | -.01000 | -.10000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .11113 | .02942 | .00078 | .09513 | .00098 | .00341 | -.00038 |
| SDev | .02385 | .00330 | .00005 | .00085 | .00047 | .00113 | .00019 |
| %RSD | 21.463 | 11.210 | 6.5725 | .89163 | 47.891 | 33.136 | 50.292 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .09426 | .03176 | .00075 | .09573 | .00131 | .00261 | -.00025 |
| #2 | .12800 | .02709 | .00082 | .09453 | .00065 | .00421 | -.00052 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1.0000 | 1.0000 | .01000 | 1.0000 | .02000 | .02000 | .01000 |
| Low | -1.0000 | -1.0000 | -.01000 | -1.0000 | -.02000 | -.02000 | -.01000 |
| Elem | Zn | As | Pb | Se | Tl | Ti | B |
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | -.00346 | .00036 | -.00057 | .00165 | .00050 | .00043 | .00295 |
| SDev | .00000 | .00299 | .00063 | .00200 | .00044 | .00010 | .00056 |
| %RSD | .00000 | 828.44 | 110.39 | 121.49 | 89.337 | 22.996 | 18.989 |
| #1 | -.00346 | -.00175 | -.00013 | .00306 | .00081 | .00036 | .00334 |
| #2 | -.00346 | .00248 | -.00102 | .00023 | .00018 | .00050 | .00255 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .02000 | .01000 | .00300 | .00500 | .01000 | .01000 | .10000 |
| Low | -.02000 | -.01000 | -.00300 | -.00500 | -.01000 | -.01000 | -.10000 |

| | | | | |
|---|---|---|---|---|
| Elem | Si | Sn | Mo | Sr |
| Units | ppm | ppm | ppm | ppm |
| Avge | .00198 | -.00290 | .00129 | .00035 |
| SDev | .00158 | .00319 | .00120 | .00002 |
| %RSD | 79.445 | 109.85 | 93.130 | 5.0098 |
| #1 | .00310 | -.00065 | .00044 | .00033 |
| #2 | .00087 | -.00516 | .00214 | .00036 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .05000 | .05000 | .01000 | .01000 |
| Low | -.05000 | -.05000 | -.01000 | -.01000 |

Method: 28EL Sample Name: 0408237-6 Operator: SW
Run Time: 09/17/04 13:34:42
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .15657 | .15090 | .01868 | -.00001 | .00012 | 187.82 | 1.7939 |
| SDev | .00449 | .00455 | .01384 | .00369 | .00034 | .83 | .0037 |
| %RSD | 2.8693 | 3.0165 | 74.083 | 41818. | 275.39 | .44098 | .20798 |
| #1 | .15974 | .14768 | .00889 | -.00262 | .00037 | 187.23 | 1.7913 |
| #2 | .15339 | .15412 | .02846 | .00260 | -.00012 | 188.40 | 1.7966 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01550 | 299.99 | .00060 | .06448 | .12797 | .19984 | 192.94 |
| SDev | .00002 | .09 | .00025 | .00015 | .00026 | .00102 | .05 |
| %RSD | .12392 | .02946 | 41.040 | .23308 | .20459 | .51215 | .02630 |
| #1 | .01549 | 299.92 | .00078 | .06438 | .12778 | .19911 | 192.90 |
| #2 | .01551 | 300.05 | .00043 | .06459 | .12815 | .20056 | 192.97 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 77.235 | 114.24 | 4.3338 | 7.5516 | .18097 | .00255 | .19269 |
| SDev | .507 | .17 | .0011 | .0670 | .00166 | .00087 | .00077 |
| %RSD | .65599 | .15008 | .02647 | .88739 | .91492 | 34.249 | .40189 |
| #1 | 76.877 | 114.12 | 4.3330 | 7.5042 | .18214 | .00317 | .19324 |
| #2 | 77.593 | 114.37 | 4.3346 | 7.5990 | .17979 | .00193 | .19214 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .76335 | .08327 | .15279 | .00621 | .00020 | 2.4142 | .12811 |
| SDev | .00013 | .00298 | .00154 | .00707 | .00220 | .0017 | .00007 |
| %RSD | .01723 | 3.5783 | 1.0080 | 113.77 | 1082.3 | .07072 | .05339 |
| #1 | .76326 | .08116 | .15170 | .00122 | .00176 | 2.4154 | .12816 |
| #2 | .76344 | .08537 | .15388 | .01121 | -.00135 | 2.4130 | .12806 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 10.785 | .03810 | .00604 | .76067 |
| SDev | .011 | .00262 | .00168 | .00114 |
| %RSD | .10189 | 6.8696 | 27.814 | .14977 |
| #1 | 10.778 | .03625 | .00485 | .75987 |
| #2 | 10.793 | .03995 | .00723 | .76148 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-7 Operator: SW
Run Time: 09/17/04 13:37:14
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .16477 | .15602 | .00728 | -.00186 | -.00004 | 197.67 | 2.0201 |
| SDev | .00162 | .00545 | .00761 | .00782 | .00041 | .59 | .0025 |
| %RSD | .98548 | 3.4936 | 104.41 | 421.25 | 1171.7 | .29713 | .12371 |
| #1 | .16592 | .15217 | .00191 | -.00739 | .00026 | 198.09 | 2.0218 |
| #2 | .16362 | .15988 | .01266 | .00367 | -.00033 | 197.26 | 2.0183 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01611 | 378.44 | .00064 | .06709 | .13187 | .20438 | H200.91 |
| SDev | .00009 | 1.99 | .00030 | .00022 | .00065 | .00078 | .73 |
| %RSD | .58282 | .52691 | 46.627 | .33183 | .49633 | .38021 | .36173 |
| #1 | .01604 | 377.03 | .00085 | .06724 | .13141 | .20493 | H200.40 |
| #2 | .01617 | 379.85 | .00043 | .06693 | .13233 | .20383 | H201.43 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC High |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 80.873 | 131.73 | 4.6755 | 6.6494 | .18587 | .00776 | .19996 |
| SDev | .396 | .37 | .0248 | .0513 | .00104 | .00093 | .00019 |
| %RSD | .49010 | .28091 | .53074 | .77115 | .56180 | 11.946 | .09693 |
| #1 | 81.153 | 131.47 | 4.6580 | 6.6856 | .18514 | .00710 | .19983 |
| #2 | 80.593 | 131.99 | 4.6930 | 6.6131 | .18661 | .00841 | .20010 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .76744 | .08543 | .15894 | .00119 | -.00287 | 2.5313 | .14468 |
| SDev | .00460 | .00238 | .00310 | .00775 | .00284 | .0016 | .00055 |
| %RSD | .59970 | 2.7862 | 1.9473 | 652.43 | 98.999 | .06271 | .37864 |
| #1 | .76419 | .08374 | .15675 | -.00429 | -.00487 | 2.5302 | .14507 |
| #2 | .77069 | .08711 | .16112 | .00667 | -.00086 | 2.5324 | .14430 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 11.686 | .03470 | .00536 | .85580 |
| SDev | .006 | .00065 | .00024 | .00082 |
| %RSD | .04802 | 1.8674 | 4.4765 | .09553 |
| #1 | 11.690 | .03515 | .00553 | .85637 |
| #2 | 11.682 | .03424 | .00519 | .85522 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-8 Operator: SW
Run Time: 09/17/04 13:39:45
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .16802 | .16401 | .01499 | .00189 | -.00010 | 209.28 | 2.2138 |
| SDev | .00091 | .00170 | .00118 | .00120 | .00048 | .83 | .0079 |
| %RSD | .54076 | 1.0395 | 7.8447 | 63.396 | 460.00 | .39428 | .35553 |
| #1 | .16866 | .16281 | .01582 | .00104 | .00024 | 208.70 | 2.2082 |
| #2 | .16738 | .16522 | .01416 | .00273 | -.00044 | 209.87 | 2.2194 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01714 | 378.32 | .00048 | .07208 | .14214 | .21943 | H215.01 |
| SDev | .00006 | 2.49 | .00037 | .00047 | .00096 | .00068 | .95 |
| %RSD | .32484 | .65914 | 76.480 | .65268 | .67233 | .31094 | .43988 |
| #1 | .01718 | 380.08 | .00022 | .07241 | .14281 | .21895 | H215.68 |
| #2 | .01710 | 376.55 | .00074 | .07175 | .14146 | .21991 | H214.34 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC High |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 86.003 | 128.74 | 4.9447 | 10.042 | .19962 | .00840 | .21424 |
| SDev | .825 | .26 | .0152 | .111 | .00018 | .00320 | .00136 |
| %RSD | .95982 | .20486 | .30816 | 1.1035 | .08946 | 38.087 | .63344 |
| #1 | 85.420 | 128.93 | 4.9555 | 9.9639 | .19950 | .01067 | .21520 |
| #2 | 86.587 | 128.56 | 4.9340 | 10.121 | .19975 | .00614 | .21328 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .82603 | .09285 | .16535 | .00625 | -.00515 | 2.5902 | .13793 |
| SDev | .00645 | .00080 | .00084 | .00041 | .00088 | .0006 | .00058 |
| %RSD | .78040 | .85637 | .50479 | 6.4908 | 17.061 | .02236 | .42180 |
| #1 | .83059 | .09341 | .16476 | .00596 | -.00577 | 2.5906 | .13834 |
| #2 | .82147 | .09229 | .16594 | .00654 | -.00453 | 2.5898 | .13752 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.020000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 14.529 | .04086 | .00621 | .94169 |
| SDev | .003 | .00065 | .00144 | .00265 |
| %RSD | .02189 | 1.5994 | 23.189 | .28168 |
| #1 | 14.531 | .04040 | .00519 | .93981 |
| #2 | 14.527 | .04132 | .00723 | .94356 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-9 Operator: SW
Run Time: 09/17/04 13:42:16
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .17478 | .16420 | .00626 | -.00454 | -.00014 | 205.31 | 2.1285 |
| SDev | .00616 | .00511 | .00186 | .00456 | .00000 | .41 | .0039 |
| %RSD | 3.5245 | 3.1099 | 29.721 | 100.52 | .00000 | .20093 | .18469 |
| #1 | .17042 | .16781 | .00495 | -.00777 | -.00014 | 205.61 | 2.1312 |
| #2 | .17914 | .16059 | .00758 | -.00131 | -.00014 | 205.02 | 2.1257 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01678 | 374.99 | .00080 | .07290 | .13856 | .22089 | H211.76 |
| SDev | .00000 | .36 | .00040 | .00022 | .00017 | .00028 | .21 |
| %RSD | .00245 | .09532 | 50.714 | .30242 | .12281 | .12870 | .10138 |
| #1 | .01678 | 375.24 | .00108 | .07306 | .13868 | .22109 | H211.91 |
| #2 | .01678 | 374.73 | .00051 | .07274 | .13844 | .22069 | H211.60 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC High |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 85.165 | 131.34 | 5.0735 | 6.7550 | .19912 | .00742 | .21218 |
| SDev | .293 | .07 | .0024 | .0303 | .00128 | .00040 | .00077 |
| %RSD | .34347 | .05601 | .04691 | .44895 | .64505 | 5.3575 | .36526 |
| #1 | 85.372 | 131.39 | 5.0751 | 6.7764 | .20003 | .00770 | .21273 |
| #2 | 84.959 | 131.29 | 5.0718 | 6.7335 | .19821 | .00714 | .21163 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | Zn | As | Pb | Se | Tl | Ti | B |
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .81589 | .09192 | .16772 | -.00094 | -.00151 | 2.4754 | .13185 |
| SDev | .00184 | .00054 | .00136 | .00366 | .00083 | .0001 | .00043 |
| %RSD | .22572 | .59024 | .80767 | 388.98 | 55.131 | .00452 | .32431 |
| #1 | .81720 | .09154 | .16868 | -.00353 | -.00210 | 2.4753 | .13154 |
| #2 | .81459 | .09230 | .16676 | .00165 | -.00092 | 2.4755 | .13215 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| | | | | |
|---|---|---|---|---|
| Elem | Si | Sn | Mo | Sr |
| Units | ppm | ppm | ppm | ppm |
| Avge | 16.384 | .03320 | .00536 | .90796 |
| SDev | .049 | .00028 | .00120 | .00173 |
| %RSD | .29650 | .84962 | 22.382 | .19030 |
| #1 | 16.419 | .03300 | .00451 | .90919 |
| #2 | 16.350 | .03339 | .00621 | .90674 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-10 Operator: SW
Run Time: 09/17/04 13:44:46
Comment:
Mode: CONC Corr. Factor: 1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .15087 | .14891 | .00715 | .00312 | -.00043 | 175.79 | 1.9934 |
| SDev | .00106 | .00270 | .00776 | .00423 | .00008 | .94 | .0100 |
| %RSD | .70048 | 1.8108 | 108.44 | 135.58 | 19.072 | .53343 | .50125 |
| #1 | .15162 | .14700 | .01264 | .00013 | -.00049 | 176.45 | 2.0005 |
| #2 | .15012 | .15081 | .00167 | .00612 | -.00037 | 175.12 | 1.9864 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01468 | 335.90 | .00065 | .06258 | .12140 | .18797 | 181.99 |
| SDev | .00002 | .63 | .00016 | .00041 | .00043 | .00055 | .19 |
| %RSD | .12522 | .18823 | 24.958 | .65648 | .35581 | .29240 | .10457 |
| #1 | .01469 | 335.45 | .00077 | .06229 | .12171 | .18836 | 182.13 |
| #2 | .01467 | 336.34 | .00054 | .06287 | .12110 | .18759 | 181.86 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 74.142 | 121.87 | 4.3375 | 7.5319 | .17101 | .00465 | .18281 |
| SDev | .431 | .20 | .0025 | .0407 | .00014 | .00068 | .00078 |
| %RSD | .58066 | .16360 | .05763 | .54007 | .07878 | 14.590 | .42455 |
| #1 | 74.446 | 122.01 | 4.3392 | 7.5606 | .17091 | .00512 | .18335 |
| #2 | 73.838 | 121.73 | 4.3357 | 7.5031 | .17110 | .00417 | .18226 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .70367 | .07601 | .14956 | .00447 | -.00104 | 2.1762 | .14210 |
| SDev | .00118 | .00199 | .00145 | .00024 | .00028 | .0073 | .00002 |
| %RSD | .16810 | 2.6149 | .96719 | 5.3760 | 26.959 | .33360 | .01205 |
| #1 | .70284 | .07461 | .14854 | .00430 | -.00084 | 2.1814 | .14209 |
| #2 | .70451 | .07742 | .15058 | .00463 | -.00124 | 2.1711 | .14212 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 10.987 | .03513 | .00434 | .80299 |
| SDev | .019 | .00482 | .00024 | .00308 |
| %RSD | .16938 | 13.732 | 5.5259 | .38344 |

| | | | | |
|---|---|---|---|---|
| #1 | 11.001 | .03854 | .00417 | .80517 |
| #2 | 10.974 | .03172 | .00451 | .80081 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-11 Operator: SW
Run Time: 09/17/04 13:47:17
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .14338 | .13662 | -.00250 | .00009 | .00024 | 174.07 | 1.7436 |
| SDev | .00083 | .00231 | .00136 | .00216 | .00012 | .11 | .0022 |
| %RSD | .58188 | 1.6875 | 54.391 | 2533.2 | 52.074 | .06189 | .12817 |
| #1 | .14397 | .13499 | -.00154 | -.00144 | .00015 | 174.15 | 1.7420 |
| #2 | .14279 | .13825 | -.00347 | .00161 | .00032 | 173.99 | 1.7452 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01404 | 314.00 | .00041 | .06026 | .11954 | .18210 | 176.23 |
| SDev | .00006 | .35 | .00027 | .00021 | .00058 | .00070 | .07 |
| %RSD | .39932 | .11120 | 65.696 | .35668 | .48180 | .38509 | .04073 |
| #1 | .01400 | 313.76 | .00022 | .06011 | .11914 | .18161 | 176.18 |
| #2 | .01408 | 314.25 | .00060 | .06042 | .11995 | .18260 | 176.29 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 70.791 | 115.56 | 4.1300 | 5.6341 | .16505 | .00499 | .18322 |
| SDev | .207 | .01 | .0013 | .0259 | .00039 | .00034 | .00058 |
| %RSD | .29184 | .00442 | .03058 | .45944 | .23463 | 6.9196 | .31844 |
| #1 | 70.645 | 115.56 | 4.1291 | 5.6158 | .16532 | .00474 | .18281 |
| #2 | 70.937 | 115.56 | 4.1309 | 5.6524 | .16478 | .00523 | .18363 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .68843 | .07386 | .13887 | -.00078 | -.00331 | 2.3130 | .11681 |
| SDev | .00197 | .00317 | .00126 | .00098 | .00223 | .0026 | .00087 |
| %RSD | .28633 | 4.2909 | .90723 | 126.79 | 67.387 | .11312 | .74589 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .68704 | .07162 | .13798 | -.00147 | -.00489 | 2.3111 | .11742 |
| #2 | .68983 | .07611 | .13976 | -.00008 | -.00173 | 2.3148 | .11619 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 11.196 | .03741 | .00553 | .72678 |
| SDev | .029 | .00130 | .00096 | .00090 |
| %RSD | .25799 | 3.4722 | 17.357 | .12419 |
| #1 | 11.176 | .03833 | .00485 | .72614 |
| #2 | 11.217 | .03649 | .00621 | .72742 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-12 Operator: SW
Run Time: 09/17/04 13:49:48
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .15120 | .14891 | .01434 | -.00067 | -.00071 | 189.03 | 1.8937 |
| SDev | .00046 | .00387 | .00260 | .00507 | .00054 | 1.16 | .0071 |
| %RSD | .30593 | 2.5970 | 18.145 | 758.20 | 76.413 | .61504 | .37336 |
| #1 | .15153 | .15164 | .01250 | -.00426 | -.00110 | 189.85 | 1.8987 |
| #2 | .15088 | .14617 | .01617 | .00292 | -.00033 | 188.21 | 1.8887 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01559 | 361.23 | .00029 | .06554 | .12575 | .20171 | 189.04 |
| SDev | .00004 | 2.12 | .00004 | .00043 | .00088 | .00087 | .59 |
| %RSD | .24108 | .58782 | 12.367 | .65615 | .69743 | .43222 | .31408 |
| #1 | .01557 | 359.73 | .00026 | .06524 | .12513 | .20233 | 188.62 |
| #2 | .01562 | 362.73 | .00032 | .06585 | .12637 | .20109 | 189.46 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 78.163 | 116.87 | 4.3950 | 8.9596 | .17799 | .00325 | .19269 |
| SDev | .675 | .13 | .0138 | .0924 | .00055 | .00446 | .00000 |
| %RSD | .86377 | .10954 | .31413 | 1.0311 | .31037 | 137.33 | .00000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | 78.640 | 116.78 | 4.3853 | 9.0249 | .17760 | .00009 | .19269 |
| #2 | 77.685 | 116.96 | 4.4048 | 8.8943 | .17838 | .00640 | .19269 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .73239 | .08400 | .14967 | .00433 | -.00326 | 2.3600 | .13257 |
| SDev | .00342 | .00027 | .00273 | .00425 | .00206 | .0029 | .00036 |
| %RSD | .46668 | .32616 | 1.8263 | 98.236 | 63.160 | .12257 | .27095 |
| #1 | .72997 | .08380 | .15160 | .00132 | -.00181 | 2.3580 | .13232 |
| #2 | .73481 | .08419 | .14774 | .00733 | -.00472 | 2.3621 | .13282 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 11.594 | .03760 | .00519 | .90863 |
| SDev | .040 | .00424 | .00000 | .00242 |
| %RSD | .34720 | 11.269 | .00000 | .26622 |
| #1 | 11.623 | .03461 | .00519 | .91034 |
| #2 | 11.566 | .04060 | .00519 | .90692 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-13 Operator: SW
Run Time: 09/17/04 13:52:19
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .14817 | .14057 | .00929 | .00261 | -.00009 | 181.25 | 1.8414 |
| SDev | .00596 | .00059 | .00659 | .00161 | .00010 | 1.06 | .0091 |
| %RSD | 4.0229 | .42221 | 70.969 | 61.614 | 105.09 | .58279 | .49465 |
| #1 | .15238 | .14099 | .00463 | .00147 | -.00002 | 180.50 | 1.8349 |
| #2 | .14395 | .14015 | .01395 | .00375 | -.00016 | 182.00 | 1.8478 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01493 | 335.37 | .00021 | .06215 | .12115 | .18811 | 182.24 |
| SDev | .00004 | .66 | .00026 | .00012 | .00034 | .00089 | .01 |
| %RSD | .25311 | .19595 | 123.90 | .19716 | .28091 | .47355 | .00672 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .01496 | 335.83 | .00003 | .06224 | .12091 | .18748 | 182.24 |
| #2 | .01491 | 334.91 | .00040 | .06206 | .12139 | .18874 | 182.23 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 74.546 | 116.44 | 4.1986 | 7.0854 | .17222 | .00826 | .18418 |
| SDev | .542 | .23 | .0030 | .0581 | .00006 | .00246 | .00039 |
| %RSD | .72695 | .19750 | .07153 | .81941 | .03454 | 29.775 | .21124 |
| #1 | 74.163 | 116.28 | 4.1964 | 7.0444 | .17218 | .00652 | .18390 |
| #2 | 74.929 | 116.60 | 4.2007 | 7.1265 | .17226 | .01000 | .18445 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .70367 | .07838 | .14310 | .00484 | -.00385 | 2.2719 | .12499 |
| SDev | .00092 | .00116 | .00238 | .00327 | .00264 | .0090 | .00003 |
| %RSD | .13074 | 1.4815 | 1.6637 | 67.601 | 68.466 | .39816 | .02735 |
| #1 | .70432 | .07756 | .14479 | .00252 | -.00199 | 2.2655 | .12501 |
| #2 | .70302 | .07920 | .14142 | .00715 | -.00572 | 2.2783 | .12497 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 14.047 | .03539 | .00570 | .80545 |
| SDev | .066 | .00333 | .00072 | .00346 |
| %RSD | .47097 | 9.4174 | 12.630 | .42980 |
| #1 | 14.000 | .03304 | .00519 | .80300 |
| #2 | 14.094 | .03775 | .00621 | .80790 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-13D Operator: SW
Run Time: 09/17/04 13:54:50
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .15242 | .14030 | .01824 | -.00351 | -.00029 | 178.59 | 1.9351 |
| SDev | .00480 | .00295 | .03236 | .00090 | .00008 | 1.17 | .0121 |
| %RSD | 3.1466 | 2.1050 | 177.38 | 25.686 | 28.200 | .65517 | .62419 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .15581 | .13821 | .04112 | -.00415 | -.00035 | 179.42 | 1.9436 |
| #2 | .14903 | .14239 | -.00464 | -.00287 | -.00023 | 177.76 | 1.9265 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01477 | 354.32 | .00091 | .06123 | .11902 | .18875 | 180.06 |
| SDev | .00007 | 3.35 | .00010 | .00072 | .00098 | .00135 | .96 |
| %RSD | .50540 | .94632 | 10.419 | 1.1849 | .82488 | .71293 | .53567 |
| #1 | .01472 | 351.95 | .00098 | .06072 | .11832 | .18970 | 179.37 |
| #2 | .01483 | 356.69 | .00084 | .06174 | .11971 | .18780 | 180.74 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 75.045 | 123.52 | 4.3240 | 7.1224 | .17222 | .00930 | .18294 |
| SDev | .978 | .43 | .0199 | .1131 | .00093 | .00148 | .00097 |
| %RSD | 1.3028 | .35139 | .46139 | 1.5876 | .53734 | 15.891 | .53049 |
| #1 | 75.736 | 123.21 | 4.3099 | 7.2024 | .17156 | .01035 | .18226 |
| #2 | 74.354 | 123.82 | 4.3381 | 7.0425 | .17287 | .00826 | .18363 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .69419 | .07792 | .14434 | .00373 | .00087 | 2.1860 | .12206 |
| SDev | .01012 | .00141 | .00037 | .01017 | .00067 | .0001 | .00068 |
| %RSD | 1.4577 | 1.8048 | .25820 | 272.47 | 77.362 | .00341 | .56006 |
| #1 | .68704 | .07891 | .14407 | .01093 | .00039 | 2.1861 | .12158 |
| #2 | .70135 | .07692 | .14460 | -.00346 | .00135 | 2.1860 | .12255 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 11.834 | .03260 | .00519 | .81303 |
| SDev | .012 | .00356 | .00000 | .00394 |
| %RSD | .10372 | 10.934 | .00000 | .48473 |
| #1 | 11.825 | .03008 | .00519 | .81582 |
| #2 | 11.843 | .03512 | .00519 | .81024 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |

| | | | | |
|---|---|---|---|---|
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

Method: 28EL Sample Name: 0408237-13L 5X Operator: SW
Run Time: 09/17/04 13:57:21
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .03007 | .02864 | .00506 | -.00192 | .00028 | 36.904 | .39700 |
| SDev | .00075 | .00121 | .00758 | .00387 | .00003 | .104 | .00091 |
| %RSD | 2.4764 | 4.2426 | 149.61 | 201.13 | 11.020 | .28301 | .22839 |
| #1 | .02955 | .02950 | -.00029 | -.00466 | .00030 | 36.830 | .39636 |
| #2 | .03060 | .02778 | .01042 | .00081 | .00026 | 36.978 | .39764 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00310 | 67.321 | -.00065 | .01328 | .02606 | .03884 | 35.406 |
| SDev | .00000 | .146 | .00010 | .00026 | .00012 | .00000 | .020 |
| %RSD | .00002 | .21625 | 14.789 | 1.9387 | .45186 | .00000 | .05608 |
| #1 | .00310 | 67.424 | -.00072 | .01310 | .02615 | .03884 | 35.392 |
| #2 | .00310 | 67.218 | -.00058 | .01346 | .02598 | .03884 | 35.420 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 15.476 | 24.223 | .91469 | 1.3328 | .03694 | -.00025 | .03954 |
| SDev | .047 | .026 | .00065 | .0062 | .00015 | .00207 | .00000 |
| %RSD | .30473 | .10666 | .07161 | .46643 | .39668 | 832.08 | .00292 |
| #1 | 15.443 | 24.204 | .91515 | 1.3284 | .03704 | -.00171 | .03954 |
| #2 | 15.510 | 24.241 | .91422 | 1.3372 | .03684 | .00122 | .03954 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .16242 | .01626 | .02912 | .00040 | -.00121 | .48410 | .02669 |
| SDev | .00157 | .00426 | .00056 | .00510 | .00266 | .00098 | .00056 |
| %RSD | .96676 | 26.208 | 1.9316 | 1268.2 | 218.84 | .20152 | 2.0815 |
| #1 | .16353 | .01324 | .02951 | -.00321 | -.00309 | .48479 | .02630 |
| #2 | .16131 | .01927 | .02872 | .00401 | .00066 | .48341 | .02708 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 2.9318 | .00526 | .00146 | .17150 |
| SDev | .0035 | .00009 | .00096 | .00018 |
| %RSD | .12090 | 1.6804 | 65.833 | .10448 |
| #1 | 2.9343 | .00520 | .00078 | .17137 |
| #2 | 2.9293 | .00532 | .00214 | .17163 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: CCV Operator: SW
Run Time: 09/17/04 13:59:53
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .50298 | .47518 | .53674 | .49799 | .48796 | 49.685 | .49052 |
| SDev | .00416 | .00295 | .00833 | .00086 | .00012 | .032 | .00039 |
| %RSD | .82740 | .62097 | 1.5524 | .17351 | .02415 | .06368 | .08036 |
| #1 | .50004 | .47727 | .53085 | .49860 | .48788 | 49.707 | .49024 |
| #2 | .50592 | .47310 | .54264 | .49738 | .48804 | 49.663 | .49080 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | | | | .50000 | 50.500 | .50000 |
| Range | | | | | 10.000 | 10.000 | 10.000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .50238 | 49.427 | .47910 | .48511 | .47571 | .49624 | 19.834 |
| SDev | .00193 | .127 | .00169 | .00015 | .00051 | .00034 | .056 |
| %RSD | .38492 | .25601 | .35169 | .03030 | .10745 | .06873 | .28070 |
| #1 | .50101 | 49.337 | .47791 | .48522 | .47535 | .49600 | 19.795 |
| #2 | .50375 | 49.516 | .48030 | .48501 | .47608 | .49648 | 19.874 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | 50.500 | .50000 | .50000 | .50000 | .50000 | 20.500 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 20.047 | 49.570 | .47725 | 20.634 | .47243 | .52191 | .49246 |
| SDev | .047 | .095 | .00141 | .082 | .00018 | .00493 | .00020 |
| %RSD | .23261 | .19096 | .29476 | .39505 | .03820 | .94502 | .04022 |
| #1 | 20.080 | 49.503 | .47626 | 20.692 | .47230 | .51842 | .49232 |
| #2 | 20.014 | 49.637 | .47825 | 20.577 | .47256 | .52540 | .49260 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | 20.000 | 50.500 | .50000 | 20.500 | .50000 | .50000 | .50000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Elem | Zn | As | Pb | Se | Tl | Ti | B |
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .49271 | .50583 | .48444 | .51090 | .51189 | .47157 | .99667 |
| SDev | .00171 | .00101 | .00058 | .00220 | .00068 | .00060 | .00391 |
| %RSD | .34618 | .19947 | .12021 | .43030 | .13258 | .12757 | .39188 |
| #1 | .49150 | .50511 | .48485 | .50934 | .51141 | .47115 | .99391 |
| #2 | .49392 | .50654 | .48403 | .51245 | .51237 | .47200 | .99944 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | .50000 | .50000 | .50000 | .50000 | .50000 | 1.0000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| | | | | |
|---|---|---|---|---|
| Elem | Si | Sn | Mo | Sr |
| Units | ppm | ppm | ppm | ppm |
| Avge | Q.27901 | .50267 | .49850 | .48341 |
| SDev | .00108 | .00216 | .00313 | .00026 |
| %RSD | .38738 | .42951 | .62822 | .05467 |
| #1 | Q.27825 | .50419 | .49629 | .48322 |
| #2 | Q.27978 | .50114 | .50072 | .48360 |
| Errors | QC Fail | QC Pass | QC Pass | QC Pass |
| Value | .25000 | .50000 | .50000 | .50000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 |

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Method: 28EL Sample Name: CCB Operator: SW
Run Time: 09/17/04 14:02:26
Comment:
Mode: CONC Corr. Factor: 1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
| Units | | | | | PPM | PPM | PPM |
| Avge | -.00156 | -.00155 | .00903 | .00191 | .00063 | .03722 | .00028 |
| SDev | .00050 | .00149 | .00408 | .00194 | .00049 | .00167 | .00006 |
| %RSD | 31.835 | 95.969 | 45.163 | 101.34 | 78.742 | 4.4811 | 21.124 |
| #1 | -.00121 | -.00260 | .00615 | .00054 | .00028 | .03840 | .00024 |
| #2 | -.00191 | -.00050 | .01192 | .00328 | .00098 | .03604 | .00032 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | .01000 | .20000 | .10000 |
| Low | | | | | -.01000 | -.20000 | -.10000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00009 | .08704 | -.00051 | .00062 | .00030 | .00092 | .05519 |
| SDev | .00000 | .00022 | .00019 | .00058 | .00051 | .00021 | .01276 |
| %RSD | .43712 | .25717 | 36.698 | 93.688 | 167.64 | 22.646 | 23.111 |
| #1 | .00009 | .08688 | -.00065 | .00021 | -.00006 | .00077 | .04617 |
| #2 | .00009 | .08719 | -.00038 | .00104 | .00067 | .00107 | .06421 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .00500 | 1.0000 | .00500 | .01000 | .01000 | .01000 | .10000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Low | -.00500 | -1.0000 | -.00500 | -.01000 | -.01000 | -.01000 | -.10000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .16171 | .03534 | .00092 | .09947 | .00096 | .00313 | .00003 |
| SDev | .03207 | .00658 | .00008 | .00061 | .00038 | .00095 | .00078 |
| %RSD | 19.831 | 18.635 | 8.9376 | .61667 | 40.060 | 30.391 | 2689.2 |
| #1 | .13903 | .03068 | .00086 | .09991 | .00069 | .00380 | -.00052 |
| #2 | .18438 | .03999 | .00098 | .09904 | .00123 | .00246 | .00058 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1.0000 | 1.0000 | .01000 | 1.0000 | .02000 | .02000 | .01000 |
| Low | -1.0000 | -1.0000 | -.01000 | -1.0000 | -.02000 | -.02000 | -.01000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | -.00328 | .00321 | -.00155 | .00428 | -.00169 | .00067 | .00338 |
| SDev | .00026 | .00181 | .00083 | .00265 | .00266 | .00010 | .00018 |
| %RSD | 7.9796 | 56.508 | 53.174 | 61.892 | 156.98 | 14.619 | 5.3675 |
| #1 | -.00346 | .00449 | -.00214 | .00241 | -.00357 | .00060 | .00325 |
| #2 | -.00309 | .00193 | -.00097 | H.00616 | .00019 | .00074 | .00351 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .02000 | .01000 | .00300 | .00500 | .01000 | .01000 | .10000 |
| Low | -.02000 | -.01000 | -.00300 | -.00500 | -.01000 | -.01000 | -.10000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .00296 | -.00131 | .00146 | .00038 |
| SDev | .00240 | .00037 | .00000 | .00002 |
| %RSD | 81.208 | 28.609 | .00000 | 6.0438 |
| #1 | .00126 | -.00104 | .00146 | .00037 |
| #2 | .00465 | -.00157 | .00146 | .00040 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .05000 | .05000 | .01000 | .01000 |
| Low | -.05000 | -.05000 | -.01000 | -.01000 |

Method: 28EL Sample Name: 0408237-13MS Operator: SW
Run Time: 09/17/04 14:06:24
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .60954 | .58592 | 1.9249 | 1.8928 | .04344 | 235.90 | 3.6492 |
| SDev | .00119 | .00098 | .0089 | .0098 | .00063 | 1.98 | .0278 |
| %RSD | .19452 | .16683 | .46284 | .51713 | 1.4509 | .83912 | .76292 |
| #1 | .60870 | .58523 | 1.9186 | 1.8859 | .04299 | 237.30 | 3.6688 |
| #2 | .61037 | .58661 | 1.9312 | 1.8997 | .04388 | 234.50 | 3.6295 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .06306 | 354.75 | .04467 | .49988 | .30867 | .44492 | 195.65 |
| SDev | .00028 | 3.43 | .00007 | .00120 | .00147 | .00379 | .97 |
| %RSD | .44601 | .96744 | .15214 | .23995 | .47527 | .85175 | .49832 |
| #1 | .06286 | 352.32 | .04462 | .49903 | .30763 | .44760 | 194.96 |
| #2 | .06326 | 357.18 | .04471 | .50072 | .30970 | .44224 | 196.34 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 82.901 | 126.22 | 4.7657 | 7.6157 | .61150 | .18864 | .62192 |
| SDev | .894 | .33 | .0183 | .1079 | .00254 | .00587 | .00175 |
| %RSD | 1.0789 | .26217 | .38364 | 1.4165 | .41483 | 3.1130 | .28157 |
| #1 | 83.534 | 125.98 | 4.7528 | 7.6919 | .60970 | .18449 | .62068 |
| #2 | 82.269 | 126.45 | 4.7786 | 7.5394 | .61329 | .19279 | .62316 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | 1.2302 | 1.9655 | .59378 | 1.9035 | 1.8855 | 3.6547 | .94530 |
| SDev | .0158 | .0073 | .00105 | .0095 | .0042 | .0022 | .00241 |
| %RSD | 1.2876 | .36895 | .17629 | .49885 | .22360 | .06153 | .25443 |
| #1 | 1.2190 | 1.9706 | .59304 | 1.8968 | 1.8825 | 3.6563 | .94700 |
| #2 | 1.2414 | 1.9604 | .59452 | 1.9102 | 1.8885 | 3.6531 | .94360 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 16.787 | .49648 | .77011 | 1.3127 |
| SDev | .091 | .00525 | .00193 | .0079 |
| %RSD | .53923 | 1.0579 | .25072 | .59906 |
| #1 | 16.851 | .49277 | .76874 | 1.3183 |
| #2 | 16.723 | .50020 | .77147 | 1.3072 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-13MSD Operator: SW
Run Time: 09/17/04 14:08:57
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .60412 | .58362 | 1.8993 | 1.8804 | .04356 | 231.89 | 3.7408 |
| SDev | .00369 | .00075 | .0192 | .0117 | .00013 | .25 | .0047 |
| %RSD | .61018 | .12850 | 1.0105 | .62013 | .29678 | .10903 | .12575 |
| #1 | .60151 | .58415 | 1.9128 | 1.8886 | .04347 | 231.71 | 3.7442 |
| #2 | .60672 | .58309 | 1.8857 | 1.8721 | .04366 | 232.07 | 3.7375 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .06268 | 358.07 | .04434 | .50094 | .30840 | .44381 | 195.32 |
| SDev | .00004 | .31 | .00014 | .00113 | .00001 | .00032 | .19 |
| %RSD | .05985 | .08640 | .31011 | .22579 | .00425 | .07258 | .09635 |
| #1 | .06271 | 357.85 | .04424 | .50174 | .30841 | .44358 | 195.19 |
| #2 | .06265 | 358.29 | .04444 | .50015 | .30839 | .44404 | 195.46 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 82.973 | 127.22 | 4.7562 | 7.5803 | .60950 | .20259 | .61175 |
| SDev | .142 | .22 | .0009 | .0228 | .00225 | .00037 | .00019 |
| %RSD | .17170 | .17000 | .01989 | .30142 | .36863 | .18393 | .03109 |
| #1 | 82.872 | 127.07 | 4.7556 | 7.5642 | .60791 | .20286 | .61188 |
| #2 | 83.073 | 127.37 | 4.7569 | 7.5965 | .61109 | .20233 | .61161 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | 1.2364 | 1.9554 | .59044 | 1.8867 | 1.8775 | 3.3656 | .90736 |
| SDev | .0041 | .0001 | .00073 | .0142 | .0011 | .0015 | .00096 |
| %RSD | .33096 | .00588 | .12318 | .75101 | .05671 | .04394 | .10560 |
| #1 | 1.2335 | 1.9555 | .58993 | 1.8967 | 1.8783 | 3.3667 | .90804 |
| #2 | 1.2393 | 1.9553 | .59096 | 1.8766 | 1.8768 | 3.3646 | .90668 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| | | | | |
|---|---|---|---|---|
| Elem | Si | Sn | Mo | Sr |
| Units | ppm | ppm | ppm | ppm |
| Avge | 12.330 | .49562 | .76772 | 1.3188 |
| SDev | .034 | .00215 | .00338 | .0014 |
| %RSD | .27569 | .43463 | .44012 | .10432 |
| #1 | 12.306 | .49410 | .76533 | 1.3197 |
| #2 | 12.354 | .49714 | .77011 | 1.3178 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

Method: 28EL Sample Name: 0408237-15 Operator: SW
Run Time: 09/17/04 14:11:52
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .14542 | .13725 | .01722 | -.00051 | -.00016 | 172.04 | 1.9041 |
| SDev | .00010 | .00122 | .00448 | .00869 | .00016 | .82 | .0023 |
| %RSD | .06907 | .89194 | 26.025 | 1705.2 | 100.48 | .47700 | .12274 |
| #1 | .14535 | .13638 | .01405 | -.00666 | -.00005 | 172.62 | 1.9057 |
| #2 | .14549 | .13811 | .02039 | .00564 | -.00028 | 171.46 | 1.9024 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01382 | 372.23 | .00070 | .06045 | .11736 | .17932 | 173.87 |
| SDev | .00000 | .63 | .00016 | .00000 | .00021 | .00044 | .37 |
| %RSD | .00149 | .17050 | 22.526 | .00244 | .17845 | .24310 | .21034 |
| #1 | .01382 | 372.68 | .00081 | .06045 | .11751 | .17963 | 174.13 |
| #2 | .01382 | 371.78 | .00059 | .06045 | .11721 | .17901 | 173.61 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 71.269 | 130.97 | 4.1853 | 5.9246 | .16270 | .00302 | .18363 |
| SDev | .232 | .35 | .0040 | .0241 | .00103 | .00222 | .00039 |
| %RSD | .32572 | .26475 | .09548 | .40687 | .63200 | 73.401 | .21141 |
| #1 | 71.434 | 131.22 | 4.1882 | 5.9417 | .16343 | .00459 | .18390 |
| #2 | 71.105 | 130.73 | 4.1825 | 5.9076 | .16197 | .00145 | .18336 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .67403 | .07881 | .13997 | .00539 | .00105 | 2.4102 | .12132 |
| SDev | .00210 | .00021 | .00085 | .00729 | .00451 | .0013 | .00072 |
| %RSD | .31190 | .27064 | .60725 | 135.19 | 430.20 | .05295 | .59166 |
| #1 | .67552 | .07896 | .13937 | .00024 | .00424 | 2.4111 | .12182 |
| #2 | .67254 | .07866 | .14057 | .01055 | -.00214 | 2.4093 | .12081 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 24.294 | .03058 | .00485 | .77121 |
| SDev | .143 | .00271 | .00000 | .00064 |
| %RSD | .58681 | 8.8726 | .00000 | .08256 |
| #1 | 24.395 | .02866 | .00485 | .77166 |
| #2 | 24.193 | .03250 | .00485 | .77076 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-16 Operator: SW
Run Time: 09/17/04 14:14:24
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .13807 | .13667 | -.00159 | .00241 | -.00064 | 170.35 | 1.8980 |
| SDev | .00093 | .00039 | .00001 | .00219 | .00025 | .26 | .0019 |
| %RSD | .67572 | .28655 | .75603 | 90.859 | 38.517 | .15078 | .09746 |
| #1 | .13873 | .13639 | -.00158 | .00086 | -.00047 | 170.53 | 1.8993 |
| #2 | .13741 | .13695 | -.00160 | .00396 | -.00082 | 170.17 | 1.8967 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01418 | 405.92 | .00038 | .05754 | .11189 | .17329 | 167.54 |
| SDev | .00006 | 1.09 | .00013 | .00084 | .00028 | .00017 | .40 |
| %RSD | .39691 | .26930 | 33.430 | 1.4583 | .24567 | .09844 | .23748 |
| #1 | .01422 | 406.69 | .00048 | .05695 | .11208 | .17341 | 167.82 |
| #2 | .01414 | 405.15 | .00029 | .05813 | .11169 | .17317 | 167.26 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 70.498 | 129.12 | 3.9462 | 7.8230 | .15862 | .00568 | .17526 |
| SDev | .173 | .29 | .0069 | .0167 | .00042 | .00057 | .00019 |
| %RSD | .24518 | .22642 | .17468 | .21374 | .26368 | 10.028 | .11141 |
| #1 | 70.620 | 129.32 | 3.9511 | 7.8348 | .15832 | .00528 | .17539 |
| #2 | 70.376 | 128.91 | 3.9413 | 7.8112 | .15891 | .00608 | .17512 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .64319 | .07869 | .13714 | .00108 | .00189 | 2.1225 | .13612 |
| SDev | .00184 | .00267 | .00005 | .00146 | .00233 | .0004 | .00110 |
| %RSD | .28593 | 3.3903 | .03607 | 134.99 | 123.79 | .01899 | .80446 |
| #1 | .64449 | .08058 | .13717 | .00005 | .00024 | 2.1228 | .13689 |
| #2 | .64189 | .07681 | .13710 | .00211 | .00354 | 2.1222 | .13534 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 12.300 | .03444 | .00384 | .83163 |
| SDev | .001 | .00103 | .00096 | .00096 |
| %RSD | .00919 | 3.0028 | 25.039 | .11510 |
| #1 | 12.301 | .03517 | .00451 | .83230 |
| #2 | 12.299 | .03371 | .00316 | .83095 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-17 Operator: SW
Run Time: 09/17/04 14:16:55
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .14053 | .13307 | .01850 | -.00322 | -.00030 | 170.33 | 2.0172 |
| SDev | .00065 | .00119 | .00474 | .00135 | .00063 | 1.67 | .0171 |
| %RSD | .46474 | .89204 | 25.604 | 41.942 | 211.69 | .98203 | .84597 |
| #1 | .14100 | .13391 | .01515 | -.00418 | -.00075 | 171.52 | 2.0293 |
| #2 | .14007 | .13223 | .02185 | -.00227 | .00015 | 169.15 | 2.0052 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01411 | 475.55 | .00045 | .05719 | .11180 | .17410 | 167.13 |
| SDev | .00011 | 6.28 | .00020 | .00040 | .00111 | .00159 | 1.16 |
| %RSD | .79823 | 1.3216 | 44.976 | .69966 | .99522 | .91444 | .69602 |
| #1 | .01404 | 471.11 | .00059 | .05691 | .11101 | .17523 | 166.31 |
| #2 | .01419 | 479.99 | .00030 | .05747 | .11258 | .17298 | 167.95 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 71.025 | 127.13 | 3.8219 | 7.8109 | .15712 | .00521 | .17334 |
| SDev | 1.084 | .40 | .0196 | .1368 | .00140 | .00251 | .00019 |
| %RSD | 1.5260 | .31680 | .51157 | 1.7515 | .89158 | 48.230 | .11263 |
| #1 | 71.792 | 126.85 | 3.8081 | 7.9076 | .15613 | .00343 | .17320 |
| #2 | 70.259 | 127.42 | 3.8357 | 7.7142 | .15811 | .00699 | .17347 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | Zn | As | Pb | Se | Tl | Ti | B |
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .64328 | .07652 | .13555 | .00401 | .00014 | 2.1113 | .13431 |
| SDev | .01064 | .00041 | .00101 | .00248 | .00536 | .0027 | .00032 |
| %RSD | 1.6541 | .53707 | .74452 | 61.769 | 3910.9 | .12684 | .24200 |
| #1 | .63576 | .07623 | .13627 | .00226 | -.00365 | 2.1132 | .13408 |
| #2 | .65080 | .07681 | .13484 | .00577 | .00393 | 2.1094 | .13454 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| | | | | |
|---|---|---|---|---|
| Elem | Si | Sn | Mo | Sr |
| Units | ppm | ppm | ppm | ppm |
| Avge | 11.261 | .03325 | .00417 | .93040 |
| SDev | .060 | .00414 | .00096 | .00610 |
| %RSD | .53353 | 12.458 | 23.002 | .65601 |
| #1 | 11.303 | .03618 | .00350 | .93471 |
| #2 | 11.218 | .03032 | .00485 | .92608 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-18 Operator: SW
Run Time: 09/17/04 14:19:26
Comment:
Mode: CONC Corr. Factor: 1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
| Units | | | | | PPM | PPM | PPM |
| Avge | .13952 | .13481 | .01114 | -.00437 | -.00016 | 162.15 | 1.7506 |
| SDev | .00108 | .00228 | .00837 | .00406 | .00023 | .62 | .0053 |
| %RSD | .77303 | 1.6907 | 75.158 | 92.848 | 140.67 | .38034 | .30321 |
| #1 | .13876 | .13643 | .00522 | -.00150 | -.00033 | 162.59 | 1.7543 |
| #2 | .14029 | .13320 | .01706 | -.00725 | -.00000 | 161.72 | 1.7468 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01318 | 367.84 | .00067 | .05873 | .10933 | .17097 | 165.02 |
| SDev | .00004 | 1.89 | .00013 | .00036 | .00038 | .00076 | .67 |
| %RSD | .28202 | .51450 | 19.154 | .61290 | .34719 | .44345 | .40333 |
| #1 | .01316 | 366.50 | .00076 | .05847 | .10907 | .17150 | 164.55 |
| #2 | .01321 | 369.18 | .00058 | .05898 | .10960 | .17043 | 165.49 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 69.055 | 133.34 | 4.1263 | 7.9945 | .15450 | .00507 | .17677 |
| SDev | .480 | .19 | .0123 | .0765 | .00094 | .00034 | .00078 |
| %RSD | .69536 | .14488 | .29820 | .95662 | .60766 | 6.7789 | .43953 |
| #1 | 69.394 | 133.20 | 4.1176 | 8.0486 | .15384 | .00482 | .17622 |
| #2 | 68.715 | 133.48 | 4.1350 | 7.9404 | .15516 | .00531 | .17732 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .63436 | .07647 | .13638 | .00079 | -.00143 | 2.1939 | .11984 |
| SDev | .00460 | .00154 | .00116 | .00008 | .00470 | .0017 | .00126 |
| %RSD | .72471 | 2.0175 | .85137 | 10.014 | 328.98 | .07594 | 1.0551 |
| #1 | .63111 | .07757 | .13720 | .00074 | .00190 | 2.1927 | .11895 |
| #2 | .63761 | .07538 | .13556 | .00085 | -.00475 | 2.1951 | .12074 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 11.384 | .03072 | .00621 | .77282 |
| SDev | .046 | .00121 | .00048 | .00175 |
| %RSD | .40175 | 3.9401 | 7.7296 | .22659 |
| #1 | 11.352 | .03157 | .00587 | .77405 |
| #2 | 11.417 | .02986 | .00655 | .77158 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-19 Operator: SW
Run Time: 09/17/04 14:21:57
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .12924 | .12778 | .02699 | -.00433 | -.00006 | 148.94 | 1.7255 |
| SDev | .00097 | .00212 | .01385 | .00790 | .00002 | .45 | .0054 |
| %RSD | .74997 | 1.6565 | 51.333 | 182.60 | 27.870 | .30375 | .31525 |
| #1 | .12856 | .12628 | .03678 | .00126 | -.00007 | 148.62 | 1.7216 |
| #2 | .12993 | .12927 | .01719 | -.00992 | -.00005 | 149.26 | 1.7293 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01194 | 373.20 | .00051 | .05503 | .10049 | .15316 | 150.97 |
| SDev | .00004 | .65 | .00005 | .00028 | .00028 | .00051 | .41 |
| %RSD | .31140 | .17422 | 9.5800 | .51567 | .27354 | .33413 | .26866 |
| #1 | .01191 | 372.74 | .00048 | .05483 | .10029 | .15279 | 150.68 |
| #2 | .01197 | 373.66 | .00055 | .05523 | .10068 | .15352 | 151.26 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 62.983 | 140.08 | 3.8868 | 7.4807 | .13912 | .00795 | .16579 |
| SDev | .220 | .33 | .0093 | .0304 | .00107 | .00239 | .00078 |
| %RSD | .34881 | .23910 | .23814 | .40676 | .77037 | 30.054 | .46899 |
| #1 | 62.827 | 139.84 | 3.8803 | 7.4591 | .13836 | .00964 | .16524 |
| #2 | 63.138 | 140.31 | 3.8934 | 7.5022 | .13987 | .00626 | .16634 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .57131 | .06937 | .12826 | .00610 | .00127 | 2.0909 | .09843 |
| SDev | .00263 | .00182 | .00173 | .00988 | .00033 | .0055 | .00174 |
| %RSD | .45958 | 2.6176 | 1.3523 | 162.05 | 26.301 | .26416 | 1.7674 |
| #1 | .56946 | .06808 | .12704 | .01309 | .00150 | 2.0870 | .09720 |
| #2 | .57317 | .07065 | .12949 | -.00089 | .00103 | 2.0948 | .09966 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 10.485 | .02882 | .00451 | .75522 |
| SDev | .031 | .00100 | .00096 | .00239 |
| %RSD | .30031 | 3.4744 | 21.273 | .31680 |

| | | | | |
|---|---|---|---|---|
| #1 | 10.463 | .02953 | .00384 | .75353 |
| #2 | 10.508 | .02812 | .00519 | .75691 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-22 Operator: SW
Run Time: 09/17/04 14:24:28
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .06641 | .07196 | -.00025 | .00182 | -.00076 | 85.803 | 1.9243 |
| SDev | .00643 | .00063 | .00784 | .00025 | .00041 | .057 | .0023 |
| %RSD | 9.6873 | .87713 | 3083.1 | 13.894 | 54.330 | .06616 | .11767 |
| #1 | .06186 | .07241 | -.00580 | .00164 | -.00105 | 85.763 | 1.9259 |
| #2 | .07096 | .07151 | .00529 | .00200 | -.00047 | 85.843 | 1.9227 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00666 | 115.31 | -.00268 | .06149 | .09872 | .07711 | 132.79 |
| SDev | .00000 | .02 | .00047 | .00011 | .00029 | .00051 | .12 |
| %RSD | .00310 | .02053 | 17.556 | .17663 | .29170 | .66373 | .08900 |
| #1 | .00666 | 115.29 | -.00302 | .06156 | .09851 | .07675 | 132.87 |
| #2 | .00666 | 115.32 | -.00235 | .06141 | .09892 | .07747 | 132.71 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 12.202 | 48.329 | 2.8952 | .88503 | .13815 | .00393 | .20613 |
| SDev | .030 | .031 | .0012 | .00203 | .00239 | .00096 | .00039 |
| %RSD | .24194 | .06396 | .04078 | .22940 | 1.7339 | 24.433 | .18861 |
| #1 | 12.181 | 48.351 | 2.8960 | .88359 | .13645 | .00325 | .20586 |
| #2 | 12.223 | 48.307 | 2.8944 | .88646 | .13984 | .00461 | .20641 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .22461 | .03397 | .07011 | .00113 | -.00212 | .42147 | .09868 |
| SDev | .00000 | .00046 | .00172 | .00278 | .00285 | .00090 | .00039 |
| %RSD | .00000 | 1.3485 | 2.4550 | 245.96 | 134.44 | .21450 | .39752 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .22461 | .03429 | .06889 | -.00084 | -.00413 | .42211 | .09896 |
| #2 | .22461 | .03364 | .07133 | .00310 | -.00010 | .42083 | .09840 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 9.9866 | .02767 | -.00092 | .49673 |
| SDev | .0116 | .00018 | .00048 | .00035 |
| %RSD | .11568 | .66011 | 52.308 | .06971 |
| #1 | 9.9784 | .02754 | -.00126 | .49698 |
| #2 | 9.9947 | .02780 | -.00058 | .49649 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-22D Operator: SW
Run Time: 09/17/04 14:27:00
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .07667 | .07607 | .00112 | .00208 | -.00080 | 91.098 | 1.8434 |
| SDev | .00110 | .00282 | .00592 | .00317 | .00097 | .894 | .0144 |
| %RSD | 1.4284 | 3.7095 | 526.72 | 152.37 | 120.79 | .98112 | .78110 |
| #1 | .07744 | .07407 | -.00306 | .00433 | -.00012 | 90.466 | 1.8332 |
| #2 | .07589 | .07806 | .00531 | -.00016 | -.00149 | 91.730 | 1.8536 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00710 | 121.88 | -.00306 | .06589 | .10778 | .07838 | 146.79 |
| SDev | .00004 | .72 | .00026 | .00030 | .00111 | .00026 | .37 |
| %RSD | .52964 | .58870 | 8.5674 | .44956 | 1.0323 | .33856 | .25457 |
| #1 | .00712 | 122.39 | -.00287 | .06610 | .10857 | .07819 | 147.05 |
| #2 | .00707 | 121.37 | -.00324 | .06568 | .10699 | .07857 | 146.52 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 13.591 | 51.237 | 3.2698 | .98081 | .14942 | .00071 | .22645 |
| SDev | .153 | .030 | .0063 | .01466 | .00131 | .00121 | .00000 |
| %RSD | 1.1258 | .05848 | .19410 | 1.4952 | .87718 | 169.36 | .00089 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | 13.483 | 51.258 | 3.2743 | .97044 | .15035 | .00157 | .22645 |
| #2 | 13.700 | 51.216 | 3.2653 | .99118 | .14850 | -.00014 | .22645 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |
| Elem | Zn | As | Pb | Se | Tl | Ti | B |
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .24664 | .03673 | .07627 | .00176 | .00276 | .52504 | .11332 |
| SDev | .00314 | .00109 | .00152 | .00015 | .00030 | .00523 | .00044 |
| %RSD | 1.2741 | 2.9582 | 1.9896 | 8.3330 | 10.900 | .99533 | .39185 |
| #1 | .24887 | .03596 | .07519 | .00187 | .00297 | .52134 | .11363 |
| #2 | .24442 | .03750 | .07734 | .00166 | .00254 | .52874 | .11300 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |
| Elem | Si | Sn | Mo | Sr | | | |
| Units | ppm | ppm | ppm | ppm | | | |
| Avge | 13.618 | .03401 | .00061 | .46285 | | | |
| SDev | .129 | .00100 | .00168 | .00332 | | | |
| %RSD | .94913 | 2.9497 | 275.54 | .71711 | | | |
| #1 | 13.526 | .03472 | .00180 | .46050 | | | |
| #2 | 13.709 | .03330 | -.00058 | .46519 | | | |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | | | |
| High | 50.000 | 10.000 | 10.000 | 10.000 | | | |
| Low | -.10000 | -.10000 | -.02000 | -.02000 | | | |

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Method: 28EL Sample Name: 0409018-22L 5X Operator: SW
Run Time: 09/17/04 14:29:30
Comment:
Mode: CONC Corr. Factor: 1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
| Units | | | | | PPM | PPM | PPM |
| Avge | .01595 | .01341 | .00661 | -.00053 | .00018 | 17.169 | .39963 |
| SDev | .00276 | .00018 | .00040 | .00063 | .00002 | .010 | .00033 |
| %RSD | 17.322 | 1.3094 | 6.0180 | 120.61 | 8.4397 | .05999 | .08360 |
| #1 | .01790 | .01329 | .00689 | -.00008 | .00017 | 17.176 | .39939 |
| #2 | .01399 | .01354 | .00633 | -.00097 | .00019 | 17.161 | .39987 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |
| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00132 | 23.150 | -.00082 | .01360 | .02051 | .01609 | 25.518 |
| SDev | .00000 | .021 | .00007 | .00037 | .00012 | .00006 | .037 |
| %RSD | .02339 | .09195 | 9.1011 | 2.7011 | .57415 | .35335 | .14523 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .00132 | 23.135 | -.00087 | .01334 | .02060 | .01605 | 25.492 |
| #2 | .00132 | 23.165 | -.00077 | .01386 | .02043 | .01613 | 25.545 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |
| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 2.5536 | 10.088 | .61780 | .24715 | .02936 | .00121 | .04379 |
| SDev | .0000 | .001 | .00066 | .00142 | .00057 | .00090 | .00058 |
| %RSD | .00000 | .01429 | .10733 | .57534 | 1.9450 | 74.291 | 1.3299 |
| #1 | 2.5536 | 10.087 | .61733 | .24815 | .02976 | .00185 | .04338 |
| #2 | 2.5536 | 10.089 | .61827 | .24614 | .02895 | .00057 | .04420 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |
| Elem | Zn | As | Pb | Se | Tl | Ti | B |
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .04645 | .00896 | .01426 | .00185 | -.00253 | .08875 | .02148 |
| SDev | .00026 | .00094 | .00080 | .00056 | .00132 | .00142 | .00039 |
| %RSD | .56292 | 10.548 | 5.6298 | 30.017 | 52.218 | 1.6024 | 1.7985 |
| #1 | .04663 | .00963 | .01482 | .00224 | -.00160 | .08976 | .02121 |
| #2 | .04626 | .00829 | .01369 | .00146 | -.00346 | .08775 | .02176 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |
| Elem | Si | Sn | Mo | Sr | | | |
| Units | ppm | ppm | ppm | ppm | | | |
| Avge | 2.0548 | .00368 | .00027 | .10210 | | | |
| SDev | .0024 | .00037 | .00024 | .00001 | | | |
| %RSD | .11727 | 9.9694 | 88.791 | .00601 | | | |
| #1 | 2.0531 | .00343 | .00010 | .10210 | | | |
| #2 | 2.0566 | .00394 | .00044 | .10209 | | | |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | | | |
| High | 50.000 | 10.000 | 10.000 | 10.000 | | | |
| Low | -.10000 | -.10000 | -.02000 | -.02000 | | | |

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Method: 28EL Sample Name: CCV Operator: SW
Run Time: 09/17/04 14:32:03
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .49471 | .47144 | .54409 | .50284 | .48916 | 49.550 | .48877 |
| SDev | .00035 | .00271 | .01353 | .00092 | .00064 | .240 | .00315 |
| %RSD | .07024 | .57531 | 2.4857 | .18242 | .13080 | .48430 | .64517 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .49447 | .47336 | .55365 | .50219 | .48962 | 49.380 | .48654 |
| #2 | .49496 | .46952 | .53453 | .50349 | .48871 | 49.719 | .49100 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | | | | .50000 | 50.500 | .50000 |
| Range | | | | | 10.000 | 10.000 | 10.000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .50548 | 49.626 | .48212 | .48800 | .47850 | .49486 | 19.935 |
| SDev | .00222 | .270 | .00173 | .00117 | .00228 | .00279 | .082 |
| %RSD | .43872 | .54467 | .35849 | .23940 | .47657 | .56284 | .40962 |
| #1 | .50704 | 49.818 | .48334 | .48883 | .48012 | .49289 | 19.992 |
| #2 | .50391 | 49.435 | .48090 | .48718 | .47689 | .49683 | 19.877 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | 50.500 | .50000 | .50000 | .50000 | .50000 | 20.500 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 20.019 | 49.789 | .47924 | 20.616 | .47483 | .52504 | .49548 |
| SDev | .202 | .096 | .00106 | .229 | .00098 | .00290 | .00136 |
| %RSD | 1.0084 | .19301 | .22232 | 1.1116 | .20641 | .55257 | .27471 |
| #1 | 19.876 | 49.857 | .47999 | 20.454 | .47552 | .52299 | .49645 |
| #2 | 20.162 | 49.721 | .47848 | 20.778 | .47414 | .52709 | .49452 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | 20.000 | 50.500 | .50000 | 20.500 | .50000 | .50000 | .50000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .49874 | .50569 | .47919 | .51658 | .50956 | .47194 | .99727 |
| SDev | .00472 | .00461 | .00169 | .00389 | .00135 | .00042 | .00213 |
| %RSD | .94708 | .91208 | .35337 | .75340 | .26387 | .08962 | .21331 |
| #1 | .50208 | .50895 | .48039 | .51933 | .51051 | .47164 | .99576 |
| #2 | .49540 | .50243 | .47799 | .51383 | .50861 | .47224 | .99877 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | .50000 | .50000 | .50000 | .50000 | .50000 | 1.0000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | Q.28381 | .51058 | .49986 | .48289 |
| SDev | .00238 | .00489 | .00120 | .00231 |
| %RSD | .83834 | .95707 | .24097 | .47819 |
| #1 | Q.28550 | .51404 | .50072 | .48126 |
| #2 | Q.28213 | .50713 | .49901 | .48452 |
| Errors | QC Fail | QC Pass | QC Pass | QC Pass |
| Value | .25000 | .50000 | .50000 | .50000 |

| Range | 10.000 | 10.000 | 10.000 | 10.000 |
|---|---|---|---|---|

Method: 28EL Sample Name: CCB Operator: SW
Run Time: 09/17/04 14:34:35
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | -.00322 | .00187 | -.00016 | .00431 | .00054 | .03799 | .00036 |
| SDev | .00185 | .00071 | .00062 | .00056 | .00006 | .00055 | .00000 |
| %RSD | 57.353 | 38.035 | 394.65 | 12.935 | 11.445 | 1.4579 | .00000 |
| #1 | -.00192 | .00137 | -.00060 | .00391 | .00058 | .03838 | .00036 |
| #2 | -.00453 | .00237 | .00028 | .00470 | .00050 | .03760 | .00036 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | .01000 | .20000 | .10000 |
| Low | | | | | -.01000 | -.20000 | -.10000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00009 | .08672 | -.00059 | .00018 | .00004 | .00103 | .06092 |
| SDev | .00000 | .00022 | .00008 | .00040 | .00011 | .00025 | .00471 |
| %RSD | .00000 | .25809 | 13.331 | 217.38 | 289.99 | 23.972 | 7.7316 |
| #1 | .00009 | .08688 | -.00065 | .00047 | -.00004 | .00120 | .06425 |
| #2 | .00009 | .08656 | -.00054 | -.00010 | .00011 | .00085 | .05759 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .00500 | 1.0000 | .00500 | .01000 | .01000 | .01000 | .10000 |
| Low | -.00500 | -1.0000 | -.00500 | -.01000 | -.01000 | -.01000 | -.10000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .12819 | .03588 | .00098 | .09691 | .00112 | -.00118 | .00030 |
| SDev | .02792 | .00380 | .00000 | .00056 | .00018 | .00028 | .00000 |
| %RSD | 21.782 | 10.588 | .00000 | .57314 | 16.483 | 24.127 | .09506 |
| #1 | .10845 | .03319 | .00098 | .09730 | .00099 | -.00138 | .00030 |
| #2 | .14793 | .03856 | .00098 | .09652 | .00125 | -.00098 | .00030 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1.0000 | 1.0000 | .01000 | 1.0000 | .02000 | .02000 | .01000 |
| Low | -1.0000 | -1.0000 | -.01000 | -1.0000 | -.02000 | -.02000 | -.01000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | -.00337 | .00213 | .00017 | .00282 | -.00138 | .00056 | .00329 |
| SDev | .00013 | .00052 | .00014 | .00058 | .00133 | .00007 | .00012 |
| %RSD | 3.8803 | 24.476 | 80.469 | 20.518 | 96.366 | 12.442 | 3.5117 |
| #1 | -.00328 | .00177 | .00027 | .00241 | -.00044 | .00061 | .00320 |
| #2 | -.00346 | .00250 | .00008 | .00323 | -.00232 | .00052 | .00337 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .02000 | .01000 | .00300 | .00500 | .01000 | .01000 | .10000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Low | -.02000 | -.01000 | -.00300 | -.00500 | -.01000 | -.01000 | -.10000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .00407 | -.00310 | .00129 | .00038 |
| SDev | .00046 | .00009 | .00024 | .00001 |
| %RSD | 11.392 | 3.0373 | 18.626 | 1.5271 |
| #1 | .00440 | -.00303 | .00112 | .00037 |
| #2 | .00374 | -.00317 | .00146 | .00038 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .05000 | .05000 | .01000 | .01000 |
| Low | -.05000 | -.05000 | -.01000 | -.01000 |

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Method: 28EL Sample Name: 0409018-22MS Operator: SW
Run Time: 09/17/04 14:37:07
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .54480 | .53024 | 1.9627 | 1.9171 | .04238 | 134.09 | 3.8473 |
| SDev | .00521 | .00125 | .0016 | .0142 | .00010 | .26 | .0049 |
| %RSD | .95712 | .23552 | .07931 | .74080 | .22875 | .19381 | .12798 |
| #1 | .54111 | .52935 | 1.9616 | 1.9070 | .04231 | 134.27 | 3.8507 |
| #2 | .54849 | .53112 | 1.9638 | 1.9271 | .04244 | 133.90 | 3.8438 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .05547 | 110.26 | .04217 | .52079 | .30529 | .32358 | 153.90 |
| SDev | .00021 | .67 | .00073 | .00302 | .00126 | .00163 | .70 |
| %RSD | .37072 | .60654 | 1.7210 | .58047 | .41188 | .50367 | .45628 |
| #1 | .05533 | 109.79 | .04165 | .51865 | .30440 | .32473 | 153.41 |
| #2 | .05562 | 110.74 | .04268 | .52293 | .30618 | .32243 | 154.40 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 18.700 | 57.371 | 3.6603 | 1.0839 | .59820 | .22854 | .67821 |
| SDev | .065 | .184 | .0148 | .0065 | .00310 | .00031 | .00234 |
| %RSD | .34903 | .31994 | .40469 | .59668 | .51769 | .13726 | .34505 |
| #1 | 18.746 | 57.241 | 3.6499 | 1.0885 | .59601 | .22832 | .67655 |
| #2 | 18.654 | 57.501 | 3.6708 | 1.0793 | .60039 | .22876 | .67986 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |
| Elem | Zn | As | Pb | Se | Tl | Ti | B |
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .72300 | 1.9447 | .53509 | 1.9323 | 1.9145 | .82804 | .83116 |
| SDev | .00407 | .0054 | .00257 | .0100 | .0044 | .00362 | .00176 |
| %RSD | .56361 | .27889 | .48018 | .51705 | .22887 | .43692 | .21154 |
| #1 | .72012 | 1.9408 | .53327 | 1.9252 | 1.9114 | .82548 | .82992 |
| #2 | .72588 | 1.9485 | .53690 | 1.9393 | 1.9176 | .83060 | .83240 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| | | | | |
|---|---|---|---|---|
| Elem | Si | Sn | Mo | Sr |
| Units | ppm | ppm | ppm | ppm |
| Avge | 12.773 | .49147 | .84761 | .89475 |
| SDev | .024 | .00331 | .00676 | .00041 |
| %RSD | .18470 | .67355 | .79772 | .04575 |
| #1 | 12.756 | .48913 | .84283 | .89504 |
| #2 | 12.789 | .49381 | .85239 | .89446 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-22MSD Operator: SW
Run Time: 09/17/04 14:39:39
Comment:
Mode: CONC Corr. Factor: 1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
| Units | | | | | PPM | PPM | PPM |
| Avge | .54090 | .51630 | 1.9233 | 1.8702 | .04202 | 132.29 | 3.7131 |
| SDev | .00633 | .00470 | .0161 | .0040 | .00082 | .35 | .0077 |
| %RSD | 1.1697 | .91018 | .83895 | .21560 | 1.9606 | .26809 | .20827 |
| #1 | .54538 | .51298 | 1.9347 | 1.8730 | .04260 | 132.04 | 3.7076 |
| #2 | .53643 | .51962 | 1.9119 | 1.8673 | .04144 | 132.54 | 3.7185 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .05487 | 106.76 | .04137 | .51509 | .30248 | .32020 | 148.77 |
| SDev | .00009 | .52 | .00004 | .00226 | .00152 | .00068 | .44 |
| %RSD | .17029 | .48809 | .09432 | .43881 | .50231 | .21306 | .29541 |
| #1 | .05493 | 107.13 | .04139 | .51669 | .30355 | .31972 | 149.08 |
| #2 | .05480 | 106.39 | .04134 | .51349 | .30140 | .32068 | 148.46 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 18.565 | 56.046 | 3.3031 | 1.0862 | .58561 | .22665 | .67216 |
| SDev | .084 | .148 | .0083 | .0062 | .00233 | .00124 | .00116 |
| %RSD | .45308 | .26409 | .24982 | .57025 | .39717 | .54633 | .17304 |
| #1 | 18.506 | 56.151 | 3.3090 | 1.0819 | .58726 | .22577 | .67298 |
| #2 | 18.625 | 55.941 | 3.2973 | 1.0906 | .58397 | .22752 | .67134 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .70962 | 1.9049 | .52449 | 1.8878 | 1.8844 | .85773 | .84678 |
| SDev | .00591 | .0143 | .00103 | .0081 | .0008 | .00076 | .00373 |
| %RSD | .83347 | .74969 | .19593 | .42707 | .04082 | .08801 | .44001 |
| #1 | .71380 | 1.9150 | .52377 | 1.8935 | 1.8849 | .85827 | .84942 |
| #2 | .70544 | 1.8948 | .52522 | 1.8821 | 1.8838 | .85720 | .84415 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 13.208 | .48625 | .84454 | .88082 |
| SDev | .016 | .00037 | .00242 | .00135 |
| %RSD | .11917 | .07648 | .28593 | .15315 |
| #1 | 13.197 | .48599 | .84283 | .87987 |
| #2 | 13.219 | .48651 | .84624 | .88178 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0409018-23 Operator: SW
Run Time: 09/17/04 14:42:10
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .09487 | .09246 | .01227 | -.00042 | -.00043 | 101.59 | 3.4170 |
| SDev | .00514 | .00561 | .01665 | .00084 | .00044 | .29 | .0010 |
| %RSD | 5.4172 | 6.0651 | 135.66 | 199.32 | 102.99 | .28063 | .03054 |
| #1 | .09851 | .08849 | .02405 | .00017 | -.00012 | 101.79 | 3.4163 |
| #2 | .09124 | .09642 | .00050 | -.00101 | -.00075 | 101.39 | 3.4177 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Low | | | | | -.02000 | -.40000 | -.20000 |
| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00850 | 253.76 | -.00302 | .07797 | .13136 | .09741 | H201.66 |
| SDev | .00002 | .04 | .00018 | .00069 | .00028 | .00046 | .14 |
| %RSD | .21858 | .01562 | 5.9111 | .88507 | .20926 | .46699 | .06894 |
| #1 | .00849 | 253.79 | -.00289 | .07748 | .13156 | .09774 | H201.56 |
| #2 | .00852 | 253.73 | -.00314 | .07845 | .13117 | .09709 | H201.76 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC High |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 15.672 | 87.215 | 4.0207 | 3.0359 | .17501 | .00492 | .30387 |
| SDev | .049 | .083 | .0038 | .0189 | .00019 | .00211 | .00039 |
| %RSD | .31486 | .09470 | .09518 | .62171 | .11027 | 42.834 | .12769 |
| #1 | 15.707 | 87.273 | 4.0180 | 3.0492 | .17515 | .00641 | .30360 |
| #2 | 15.637 | 87.157 | 4.0234 | 3.0225 | .17488 | .00343 | .30415 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | Zn | As | Pb | Se | Tl | Ti | B |
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .25664 | .06536 | .09326 | .00381 | .00067 | .47033 | .15145 |
| SDev | .00079 | .00108 | .00203 | .00610 | .00335 | .00191 | .00074 |
| %RSD | .30615 | 1.6540 | 2.1753 | 160.24 | 501.65 | .40543 | .48628 |
| #1 | .25720 | .06613 | .09183 | .00812 | -.00170 | .46898 | .15197 |
| #2 | .25609 | .06460 | .09470 | -.00051 | .00304 | .47168 | .15093 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| | | | | |
|---|---|---|---|---|
| Elem | Si | Sn | Mo | Sr |
| Units | ppm | ppm | ppm | ppm |
| Avge | 11.072 | .02707 | .00095 | 1.1285 |
| SDev | .047 | .00027 | .00024 | .0008 |
| %RSD | .42045 | 1.0007 | 25.287 | .06857 |
| #1 | 11.105 | .02727 | .00112 | 1.1280 |
| #2 | 11.039 | .02688 | .00078 | 1.1291 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

Method: 28EL Sample Name: 0409018-24 Operator: SW
Run Time: 09/17/04 14:44:42
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .08780 | .09011 | .02054 | -.00034 | -.00050 | 94.316 | 1.8057 |
| SDev | .00230 | .00075 | .00188 | .00484 | .00031 | .283 | .0045 |
| %RSD | 2.6232 | .82689 | 9.1760 | 1443.2 | 62.380 | .30037 | .24907 |
| #1 | .08617 | .08958 | .02187 | -.00376 | -.00028 | 94.116 | 1.8025 |
| #2 | .08942 | .09064 | .01921 | .00309 | -.00072 | 94.517 | 1.8089 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00778 | 85.989 | -.00320 | .06110 | .12423 | .07874 | 172.44 |
| SDev | .00002 | .351 | .00017 | .00014 | .00105 | .00044 | .90 |
| %RSD | .23098 | .40822 | 5.2362 | .22945 | .84298 | .55365 | .52284 |
| #1 | .00777 | 85.740 | -.00331 | .06100 | .12349 | .07844 | 171.80 |
| #2 | .00779 | 86.237 | -.00308 | .06120 | .12497 | .07905 | 173.07 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 13.060 | 35.597 | 3.2599 | .61784 | .12969 | .00605 | .26598 |
| SDev | .028 | .142 | .0154 | .00044 | .00150 | .00034 | .00155 |
| %RSD | .21774 | .39991 | .47224 | .07175 | 1.1581 | 5.5862 | .58391 |
| #1 | 13.040 | 35.496 | 3.2490 | .61816 | .12863 | .00581 | .26488 |
| #2 | 13.081 | 35.698 | 3.2708 | .61753 | .13075 | .00629 | .26708 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .27016 | .06195 | .08934 | .00662 | .00138 | .48280 | .07151 |
| SDev | .00236 | .00181 | .00126 | .00260 | .00354 | .00405 | .00080 |
| %RSD | .87256 | 2.9304 | 1.4147 | 39.336 | 256.07 | .83882 | 1.1173 |
| #1 | .26850 | .06067 | .08844 | .00478 | -.00112 | .47993 | .07208 |
| #2 | .27183 | .06324 | .09023 | .00846 | .00389 | .48566 | .07095 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 2.7235 | .02801 | .00044 | .21847 |
| SDev | .0278 | .00059 | .00000 | .00063 |
| %RSD | 1.0206 | 2.0893 | .00000 | .28954 |
| | | | | |
| #1 | 2.7038 | .02759 | .00044 | .21802 |
| #2 | 2.7431 | .02842 | .00044 | .21891 |
| | | | | |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

Method: 28EL Sample Name: 0408237-2 2X Operator: SW
Run Time: 09/17/04 14:50:26
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .08818 | .08390 | .00298 | .00271 | .00007 | 104.85 | 1.0796 |
| SDev | .00153 | .00380 | .00528 | .00154 | .00011 | .30 | .0042 |
| %RSD | 1.7362 | 4.5237 | 177.14 | 56.842 | 143.08 | .28908 | .38804 |
| #1 | .08710 | .08122 | -.00075 | .00379 | .00015 | 104.64 | 1.0766 |
| #2 | .08926 | .08659 | .00672 | .00162 | -.00000 | 105.07 | 1.0825 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00863 | 181.49 | .00004 | .03691 | .07206 | .10962 | 102.74 |
| SDev | .00002 | .07 | .00006 | .00022 | .00016 | .00017 | .08 |
| %RSD | .21648 | .03857 | 129.63 | .59825 | .21794 | .15561 | .08124 |
| #1 | .00865 | 181.45 | .00008 | .03707 | .07217 | .10950 | 102.68 |
| #2 | .00862 | 181.54 | .00000 | .03676 | .07195 | .10974 | 102.80 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 43.252 | 66.242 | 2.5157 | 3.7068 | .10104 | .00476 | .10993 |
| SDev | .271 | .059 | .0021 | .0232 | .00000 | .00102 | .00020 |
| %RSD | .62573 | .08963 | .08462 | .62646 | .00028 | 21.358 | .17811 |
| #1 | 43.060 | 66.200 | 2.5142 | 3.6903 | .10104 | .00404 | .11007 |
| #2 | 43.443 | 66.284 | 2.5172 | 3.7232 | .10104 | .00547 | .10979 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .42055 | .04532 | .08533 | .00280 | -.00287 | 1.3702 | .07678 |
| SDev | .00223 | .00185 | .00304 | .00073 | .00086 | .0019 | .00015 |
| %RSD | .53005 | 4.0744 | 3.5644 | 26.247 | 29.936 | .13970 | .19942 |
| #1 | .41898 | .04663 | .08318 | .00228 | -.00227 | 1.3689 | .07667 |
| #2 | .42213 | .04402 | .08748 | .00332 | -.00348 | 1.3716 | .07689 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 10.149 | .01902 | .00417 | .45837 |
| SDev | .001 | .00085 | .00144 | .00152 |
| %RSD | .01322 | 4.4930 | 34.504 | .33044 |
| #1 | 10.148 | .01842 | .00519 | .45730 |
| #2 | 10.150 | .01963 | .00316 | .45944 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-3 2X Operator: SW
Run Time: 09/17/04 14:52:58
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .08719 | .08270 | .02020 | -.00404 | .00043 | 106.00 | .97447 |
| SDev | .00270 | .00119 | .01557 | .00124 | .00022 | .59 | .00212 |
| %RSD | 3.0985 | 1.4369 | 77.117 | 30.801 | 50.048 | .56045 | .21712 |
| #1 | .08528 | .08354 | .00918 | -.00316 | .00028 | 105.58 | .97298 |
| #2 | .08910 | .08186 | .03121 | -.00491 | .00058 | 106.42 | .97597 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00853 | 151.92 | -.00026 | .03901 | .07340 | .11046 | 104.04 |
| SDev | .00002 | .16 | .00002 | .00069 | .00003 | .00051 | .19 |
| %RSD | .21678 | .10631 | 7.7554 | 1.7802 | .03567 | .46334 | .18205 |
| #1 | .00854 | 151.80 | -.00024 | .03950 | .07341 | .11009 | 103.91 |
| #2 | .00851 | 152.03 | -.00027 | .03852 | .07338 | .11082 | 104.17 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 41.320 | 60.689 | 2.7058 | 3.0353 | .12250 | .00016 | .10966 |
| SDev | .174 | .128 | .0030 | .0158 | .00003 | .00096 | .00058 |
| %RSD | .42076 | .21047 | .10945 | .51994 | .02499 | 595.06 | .52987 |
| #1 | 41.197 | 60.599 | 2.7037 | 3.0241 | .12252 | -.00052 | .11007 |
| #2 | 41.443 | 60.779 | 2.7079 | 3.0465 | .12248 | .00084 | .10925 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .43780 | .04192 | .08419 | .00403 | -.00021 | 1.4880 | .07715 |
| SDev | .00013 | .00232 | .00011 | .00436 | .00327 | .0012 | .00089 |
| %RSD | .02995 | 5.5437 | .12710 | 108.03 | 1529.1 | .08048 | 1.1467 |
| #1 | .43789 | .04028 | .08412 | .00095 | .00210 | 1.4871 | .07653 |
| #2 | .43771 | .04356 | .08427 | .00711 | -.00253 | 1.4888 | .07778 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 12.964 | .01881 | .00316 | .40550 |
| SDev | .073 | .00187 | .00096 | .00053 |
| %RSD | .56051 | 9.9388 | 30.425 | .12986 |
| #1 | 12.912 | .02013 | .00248 | .40512 |
| #2 | 13.015 | .01749 | .00384 | .40587 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-5 2X Operator: SW
Run Time: 09/17/04 14:55:30
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .08760 | .08269 | .00647 | -.00208 | .00016 | 97.748 | 1.0530 |
| SDev | .00194 | .00021 | .00013 | .00185 | .00020 | .193 | .0018 |
| %RSD | 2.2204 | .25572 | 2.0635 | 89.154 | 123.63 | .19790 | .17142 |
| #1 | .08897 | .08254 | .00638 | -.00339 | .00002 | 97.885 | 1.0543 |
| #2 | .08622 | .08284 | .00657 | -.00077 | .00030 | 97.611 | 1.0517 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00832 | 201.42 | -.00019 | .03682 | .06881 | .11713 | 98.463 |
| SDev | .00002 | .49 | .00009 | .00084 | .00047 | .00025 | .057 |
| %RSD | .22598 | .24496 | 46.938 | 2.2673 | .68476 | .21037 | .05794 |
| #1 | .00833 | 201.77 | -.00026 | .03623 | .06847 | .11730 | 98.503 |
| #2 | .00830 | 201.07 | -.00013 | .03741 | .06914 | .11696 | 98.422 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 41.477 | 67.266 | 2.4960 | 3.8782 | .12244 | .00271 | .10568 |
| SDev | .058 | .003 | .0001 | .0064 | .00054 | .00144 | .00000 |
| %RSD | .14000 | .00393 | .00594 | .16432 | .43784 | 53.094 | .00054 |
| #1 | 41.436 | 67.264 | 2.4961 | 3.8827 | .12206 | .00169 | .10568 |
| #2 | 41.518 | 67.268 | 2.4959 | 3.8737 | .12282 | .00373 | .10568 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .41277 | .04519 | .08433 | .00077 | .00087 | 1.2323 | .07320 |
| SDev | .00039 | .00144 | .00051 | .00128 | .00355 | .0020 | .00087 |
| %RSD | .09529 | 3.1938 | .60082 | 166.95 | 406.36 | .16064 | 1.1848 |
| #1 | .41249 | .04417 | .08468 | -.00014 | .00338 | 1.2309 | .07381 |
| #2 | .41304 | .04621 | .08397 | .00167 | -.00164 | 1.2337 | .07258 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 7.0067 | .01773 | .00282 | .46251 |
| SDev | .0040 | .00104 | .00048 | .00072 |
| %RSD | .05645 | 5.8794 | 17.046 | .15494 |
| #1 | 7.0095 | .01700 | .00248 | .46302 |
| #2 | 7.0039 | .01847 | .00316 | .46200 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-7 2X Operator: SW
Run Time: 09/17/04 14:58:01
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .08327 | .08126 | -.00065 | -.00022 | .00012 | 98.666 | 1.0413 |
| SDev | .00352 | .00256 | .01233 | .00202 | .00002 | .452 | .0028 |
| %RSD | 4.2266 | 3.1492 | 1910.7 | 925.19 | 13.074 | .45785 | .26922 |
| #1 | .08576 | .07945 | .00807 | -.00165 | .00013 | 98.986 | 1.0433 |
| #2 | .08079 | .08307 | -.00936 | .00121 | .00011 | 98.347 | 1.0393 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00825 | 188.29 | .00018 | .03516 | .06955 | .10225 | 98.291 |
| SDev | .00004 | .57 | .00029 | .00003 | .00008 | .00063 | .196 |
| %RSD | .45557 | .30135 | 164.42 | .08823 | .11291 | .61173 | .19923 |
| #1 | .00822 | 187.89 | .00038 | .03514 | .06949 | .10269 | 98.153 |
| #2 | .00828 | 188.69 | -.00003 | .03518 | .06960 | .10181 | 98.430 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 40.761 | 67.089 | 2.4350 | 3.1744 | .09657 | .00400 | .10485 |
| SDev | .225 | .082 | .0056 | .0237 | .00042 | .00073 | .00000 |
| %RSD | .55161 | .12219 | .23029 | .74684 | .42991 | 18.376 | .00027 |
| #1 | 40.920 | 67.031 | 2.4310 | 3.1911 | .09628 | .00348 | .10485 |
| #2 | 40.602 | 67.147 | 2.4389 | 3.1576 | .09686 | .00452 | .10485 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .41601 | .04280 | .08193 | -.00036 | .00196 | 1.3488 | .07739 |
| SDev | .00184 | .00163 | .00053 | .00276 | .00304 | .0025 | .00085 |
| %RSD | .44125 | 3.8119 | .65271 | 764.16 | 155.17 | .18425 | 1.0992 |
| #1 | .41471 | .04395 | .08155 | .00159 | .00411 | 1.3470 | .07679 |
| #2 | .41731 | .04165 | .08231 | -.00231 | -.00019 | 1.3506 | .07800 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 9.0693 | .01964 | .00265 | .43874 |
| SDev | .0334 | .00092 | .00024 | .00094 |
| %RSD | .36787 | 4.7075 | 9.0698 | .21324 |
| #1 | 9.0457 | .02029 | .00248 | .43940 |
| #2 | 9.0929 | .01898 | .00282 | .43808 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-8 2X Operator: SW
Run Time: 09/17/04 15:00:32
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .09152 | .08419 | .00626 | .00011 | .00029 | 105.68 | 1.1468 |
| SDev | .00251 | .00098 | .00468 | .00238 | .00023 | .21 | .0018 |
| %RSD | 2.7455 | 1.1616 | 74.796 | 2163.4 | 79.402 | .19628 | .15444 |
| #1 | .09330 | .08350 | .00957 | -.00157 | .00045 | 105.83 | 1.1481 |
| #2 | .08975 | .08489 | .00295 | .00179 | .00013 | 105.53 | 1.1456 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00871 | 186.32 | .00025 | .03762 | .07372 | .17420 | 104.22 |
| SDev | .00002 | .70 | .00013 | .00037 | .00009 | .00021 | .22 |
| %RSD | .21336 | .37735 | 54.072 | .97605 | .12428 | .11969 | .20678 |
| #1 | .00873 | 186.82 | .00015 | .03788 | .07379 | .17405 | 104.37 |
| #2 | .00870 | 185.83 | .00034 | .03736 | .07366 | .17434 | 104.07 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 43.819 | 65.568 | 2.5574 | 4.8889 | .18608 | .00417 | .11144 |
| SDev | .112 | .050 | .0046 | .0114 | .00001 | .00332 | .00039 |
| %RSD | .25518 | .07661 | .18064 | .23232 | .00776 | 79.749 | .34880 |
| #1 | 43.740 | 65.604 | 2.5607 | 4.8809 | .18607 | .00182 | .11172 |
| #2 | 43.898 | 65.533 | 2.5542 | 4.8969 | .18609 | .00652 | .11117 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .45143 | .04575 | .08664 | .00216 | .00441 | 1.3926 | .07297 |
| SDev | .00000 | .00394 | .00018 | .00003 | .00305 | .0010 | .00085 |
| %RSD | .00000 | 8.6070 | .21287 | 1.3103 | 69.031 | .07153 | 1.1652 |
| #1 | .45143 | .04297 | .08677 | .00214 | .00226 | 1.3919 | .07357 |
| #2 | .45143 | .04854 | .08650 | .00218 | .00657 | 1.3933 | .07237 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 11.810 | .02273 | .00350 | .48347 |
| SDev | .011 | .00141 | .00048 | .00107 |
| %RSD | .09349 | 6.2146 | 13.735 | .22124 |

| | | | | |
|---|---|---|---|---|
| #1 | 11.817 | .02173 | .00384 | .48423 |
| #2 | 11.802 | .02373 | .00316 | .48272 |

| | | | | |
|---|---|---|---|---|
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

Method: 28EL Sample Name: 0408237-9 2X Operator: SW
Run Time: 09/17/04 15:03:35
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .08856 | .08633 | .01316 | .00051 | -.00001 | 103.89 | 1.1108 |
| SDev | .00254 | .00028 | .00910 | .00581 | .00008 | .62 | .0047 |
| %RSD | 2.8670 | .32761 | 69.206 | 1127.7 | 538.84 | .59202 | .42717 |
| #1 | .08676 | .08613 | .00672 | -.00359 | -.00007 | 103.45 | 1.1074 |
| #2 | .09035 | .08653 | .01959 | .00462 | .00004 | 104.32 | 1.1141 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00866 | 188.34 | .00005 | .03858 | .07253 | .11190 | 103.93 |
| SDev | .00006 | 1.26 | .00028 | .00008 | .00076 | .00070 | .72 |
| %RSD | .64634 | .66945 | 612.05 | .21622 | 1.0466 | .62672 | .69458 |
| #1 | .00862 | 187.44 | -.00015 | .03864 | .07199 | .11141 | 103.42 |
| #2 | .00870 | 189.23 | .00025 | .03852 | .07306 | .11240 | 104.44 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 43.347 | 67.332 | 2.6506 | 3.2797 | .10400 | .00462 | .11089 |
| SDev | .164 | .467 | .0162 | .0181 | .00089 | .00039 | .00078 |
| %RSD | .37757 | .69339 | .61067 | .55118 | .85589 | 8.4559 | .69974 |
| #1 | 43.231 | 67.002 | 2.6391 | 3.2669 | .10337 | .00435 | .11034 |
| #2 | 43.463 | 67.662 | 2.6620 | 3.2925 | .10463 | .00490 | .11144 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .43066 | .04746 | .08707 | .00472 | -.00128 | 1.2839 | .06941 |
| SDev | .00341 | .00032 | .00103 | .00690 | .00401 | .0067 | .00112 |
| %RSD | .79169 | .68307 | 1.1877 | 146.14 | 313.09 | .52419 | 1.6161 |
| #1 | .42825 | .04769 | .08634 | -.00016 | .00156 | 1.2791 | .06862 |
| #2 | .43307 | .04723 | .08780 | .00961 | -.00412 | 1.2886 | .07020 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|

| | | | | |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 8.8979 | .01609 | .00333 | .47250 |
| SDev | .0537 | .00015 | .00024 | .00211 |
| %RSD | .60310 | .93561 | 7.2181 | .44722 |
| #1 | 8.8599 | .01620 | .00350 | .47101 |
| #2 | 8.9358 | .01599 | .00316 | .47400 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: CCV Operator: SW
Run Time: 09/17/04 15:06:08
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .49211 | .47410 | .53706 | .49818 | .48675 | 49.259 | .48760 |
| SDev | .00493 | .00208 | .01465 | .00303 | .00049 | .080 | .00096 |
| %RSD | 1.0017 | .43779 | 2.7273 | .60929 | .10030 | .16168 | .19598 |
| #1 | .49559 | .47557 | .52670 | .49604 | .48640 | 49.202 | .48828 |
| #2 | .48862 | .47263 | .54741 | .50033 | .48709 | 49.315 | .48693 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | | | | .50000 | 50.500 | .50000 |
| Range | | | | | 10.000 | 10.000 | 10.000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .50288 | 49.356 | .47974 | .48494 | .47591 | .49290 | 19.762 |
| SDev | .00002 | .026 | .00014 | .00084 | .00115 | .00059 | .003 |
| %RSD | .00375 | .05355 | .02886 | .17329 | .24234 | .11916 | .01282 |
| #1 | .50289 | 49.337 | .47964 | .48553 | .47509 | .49248 | 19.764 |
| #2 | .50286 | 49.375 | .47983 | .48434 | .47672 | .49332 | 19.760 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | 50.500 | .50000 | .50000 | .50000 | .50000 | 20.500 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 19.936 | 49.498 | .47596 | 20.468 | .47115 | .52271 | .49383 |
| SDev | .015 | .068 | .00005 | .024 | .00045 | .00606 | .00019 |
| %RSD | .07693 | .13797 | .01087 | .11648 | .09563 | 1.1593 | .03887 |
| #1 | 19.925 | 49.450 | .47592 | 20.451 | .47083 | .51843 | .49397 |
| #2 | 19.947 | 49.546 | .47600 | 20.485 | .47147 | .52700 | .49370 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | 20.000 | 50.500 | .50000 | 20.500 | .50000 | .50000 | .50000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .49596 | .50527 | .48010 | .51113 | .50655 | .46895 | .99321 |
| SDev | .00184 | .00277 | .00303 | .00690 | .01350 | .00004 | .00106 |
| %RSD | .37037 | .54744 | .63026 | 1.3504 | 2.6643 | .00894 | .10708 |
| #1 | .49466 | .50723 | .48224 | .50625 | .49700 | .46892 | .99246 |
| #2 | .49726 | .50332 | .47796 | .51601 | .51609 | .46897 | .99396 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | .50000 | .50000 | .50000 | .50000 | .50000 | 1.0000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | Q.28242 | .50279 | .49765 | .48196 |
| SDev | .00571 | .00085 | .00193 | .00105 |
| %RSD | 2.0205 | .16834 | .38725 | .21801 |
| #1 | Q.27838 | .50219 | .49629 | .48270 |
| #2 | Q.28645 | .50338 | .49901 | .48121 |
| Errors | QC Fail | QC Pass | QC Pass | QC Pass |
| Value | .25000 | .50000 | .50000 | .50000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 |

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Method: 28EL Sample Name: CCB Operator: SW
Run Time: 09/17/04 15:08:41
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | -.00419 | .00002 | .01062 | -.00012 | .00085 | .00532 | -.00002 |
| SDev | .00074 | .00049 | .00956 | .00414 | .00102 | .00399 | .00008 |
| %RSD | 17.763 | 2042.9 | 90.022 | 3429.0 | 120.28 | 74.991 | 391.91 |
| #1 | -.00366 | .00037 | .01738 | -.00305 | .00157 | .00814 | .00004 |
| #2 | -.00472 | -.00032 | .00386 | .00280 | .00013 | .00250 | -.00008 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | .01000 | .20000 | .10000 |
| Low | | | | | -.01000 | -.20000 | -.10000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | -.00003 | .05277 | -.00055 | -.00020 | .00006 | .00114 | .04057 |
| SDev | .00002 | .00154 | .00003 | .00015 | .00059 | .00032 | .01196 |
| %RSD | 72.812 | 2.9248 | 5.7317 | 71.715 | 922.13 | 28.387 | 29.492 |
| #1 | -.00001 | .05386 | -.00053 | -.00010 | .00048 | .00136 | .04903 |
| #2 | -.00004 | .05168 | -.00057 | -.00031 | -.00035 | .00091 | .03211 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .00500 | 1.0000 | .00500 | .01000 | .01000 | .01000 | .10000 |
| Low | -.00500 | -1.0000 | -.00500 | -.01000 | -.01000 | -.01000 | -.10000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .13132 | .01502 | .00037 | .09565 | .00058 | .00214 | -.00011 |
| SDev | .02639 | .00536 | .00010 | .00117 | .00041 | .00212 | .00058 |
| %RSD | 20.094 | 35.709 | 27.956 | 1.2230 | 70.956 | 99.332 | 533.80 |
| #1 | .14998 | .01882 | .00044 | .09648 | .00086 | .00364 | .00030 |
| #2 | .11266 | .01123 | .00030 | .09482 | .00029 | .00064 | -.00052 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1.0000 | 1.0000 | .01000 | 1.0000 | .02000 | .02000 | .01000 |
| Low | -1.0000 | -1.0000 | -.01000 | -1.0000 | -.02000 | -.02000 | -.01000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | -.00392 | .00219 | -.00138 | .00346 | .00425 | .00053 | .00253 |
| SDev | .00039 | .00205 | .00058 | .00043 | .00089 | .00042 | .00040 |
| %RSD | 9.9954 | 93.602 | 41.833 | 12.311 | 20.908 | 79.505 | 15.600 |
| #1 | -.00364 | .00364 | -.00097 | .00376 | .00488 | .00083 | .00281 |
| #2 | -.00420 | .00074 | -.00179 | .00316 | .00362 | .00023 | .00225 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .02000 | .01000 | .00300 | .00500 | .01000 | .01000 | .10000 |
| Low | -.02000 | -.01000 | -.00300 | -.00500 | -.01000 | -.01000 | -.10000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .00355 | -.00250 | .00078 | .00022 |
| SDev | .00175 | .00187 | .00048 | .00004 |
| %RSD | 49.330 | 74.820 | 61.585 | 18.674 |
| #1 | .00479 | -.00383 | .00112 | .00024 |
| #2 | .00231 | -.00118 | .00044 | .00019 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .05000 | .05000 | .01000 | .01000 |
| Low | -.05000 | -.05000 | -.01000 | -.01000 |

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Method: 28EL Sample Name: 0409018-23 2X Operator: SW
Run Time: 09/17/04 15:11:13
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .04578 | .04844 | .01050 | .00056 | -.00023 | 50.871 | 1.7657 |
| SDev | .00123 | .00093 | .00496 | .00024 | .00030 | .080 | .0001 |
| %RSD | 2.6888 | 1.9171 | 47.291 | 42.399 | 126.81 | .15700 | .00757 |
| #1 | .04665 | .04910 | .01401 | .00073 | -.00044 | 50.928 | 1.7656 |
| #2 | .04491 | .04778 | .00699 | .00039 | -.00002 | 50.815 | 1.7658 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00425 | 125.24 | -.00176 | .03962 | .06733 | .04918 | 96.531 |
| SDev | .00002 | .88 | .00023 | .00062 | .00058 | .00013 | .462 |
| %RSD | .42518 | .70217 | 13.239 | 1.5615 | .85532 | .26983 | .47901 |
| #1 | .00424 | 124.61 | -.00193 | .03919 | .06692 | .04908 | 96.204 |
| #2 | .00426 | 125.86 | -.00160 | .04006 | .06773 | .04927 | 96.858 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 7.8723 | 43.745 | 2.0641 | 1.5017 | .09427 | .00242 | .15549 |
| SDev | .0261 | .124 | .0105 | .0087 | .00039 | .00127 | .00136 |
| %RSD | .33215 | .28353 | .50681 | .57858 | .40966 | 52.377 | .87394 |
| #1 | 7.8908 | 43.657 | 2.0567 | 1.5078 | .09400 | .00332 | .15453 |
| #2 | 7.8538 | 43.833 | 2.0715 | 1.4955 | .09454 | .00152 | .15645 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .13106 | .03193 | .04755 | .00387 | -.00123 | .24244 | .07471 |
| SDev | .00222 | .00341 | .00103 | .00181 | .00210 | .00081 | .00012 |
| %RSD | 1.6969 | 10.681 | 2.1645 | 46.820 | 171.12 | .33632 | .15935 |
| #1 | .12948 | .02952 | .04828 | .00515 | -.00272 | .24186 | .07463 |
| #2 | .13263 | .03434 | .04682 | .00259 | .00026 | .24301 | .07480 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 5.9066 | .01289 | -.00075 | .57946 |
| SDev | .0314 | .00150 | .00024 | .00070 |
| %RSD | .53166 | 11.611 | 32.088 | .12104 |
| #1 | 5.8844 | .01394 | -.00092 | .57897 |
| #2 | 5.9288 | .01183 | -.00058 | .57996 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: 0408237-13A Operator: SW
Run Time: 09/17/04 15:13:44
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | 1.0958 | 1.0687 | 1.0872 | 1.0341 | .00011 | 181.38 | 1.8463 |
| SDev | .0043 | .0044 | .0032 | .0095 | .00042 | .70 | .0027 |
| %RSD | .39372 | .41013 | .29350 | .92327 | 380.65 | .38860 | .14360 |
| #1 | 1.0988 | 1.0656 | 1.0894 | 1.0273 | .00041 | 180.88 | 1.8445 |
| #2 | 1.0927 | 1.0718 | 1.0849 | 1.0408 | -.00019 | 181.88 | 1.8482 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .99482 | 331.86 | .90997 | .98819 | 1.0148 | 1.1955 | 181.23 |
| SDev | .00193 | 1.07 | .00395 | .00251 | .0025 | .0026 | .48 |
| %RSD | .19413 | .32320 | .43432 | .25420 | .24583 | .21539 | .26421 |
| #1 | .99345 | 331.10 | .90718 | .98642 | 1.0130 | 1.1937 | 180.89 |
| #2 | .99618 | 332.62 | .91277 | .98997 | 1.0166 | 1.1973 | 181.56 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 74.460 | 116.14 | 5.0675 | 7.0870 | 1.0737 | 1.0510 | 1.1248 |
| SDev | .280 | .37 | .0113 | .0324 | .0007 | .0133 | .0014 |
| %RSD | .37657 | .31574 | .22338 | .45658 | .06103 | 1.2657 | .12135 |
| #1 | 74.261 | 115.88 | 5.0595 | 7.0641 | 1.0732 | 1.0416 | 1.1238 |
| #2 | 74.658 | 116.40 | 5.0755 | 7.1098 | 1.0741 | 1.0604 | 1.1257 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | 1.6188 | 1.1007 | 1.0778 | 1.0518 | .99683 | 3.2989 | .13498 |
| SDev | .0015 | .0008 | .0015 | .0053 | .00455 | .0066 | .00154 |
| %RSD | .08998 | .06955 | .13797 | .50445 | .45670 | .19941 | 1.1407 |
| #1 | 1.6177 | 1.1002 | 1.0767 | 1.0480 | .99361 | 3.2943 | .13607 |
| #2 | 1.6198 | 1.1013 | 1.0788 | 1.0555 | 1.0000 | 3.3036 | .13389 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | 21.646 | .03434 | .96838 | .80600 |
| SDev | .085 | .00116 | .00266 | .00147 |
| %RSD | .39405 | 3.3832 | .27454 | .18272 |

| | | | | |
|---|---|---|---|---|
| #1 | 21.586 | .03352 | .96650 | .80496 |
| #2 | 21.706 | .03516 | .97026 | .80704 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: CRI Operator: SW
Run Time: 09/17/04 15:16:16
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .00550 | .00549 | .01857 | .01227 | .02029 | .39774 | .40824 |
| SDev | .00213 | .00105 | .00256 | .00135 | .00029 | .00180 | .00210 |
| %RSD | 38.652 | 19.084 | 13.788 | 11.014 | 1.4212 | .45249 | .51442 |
| #1 | .00400 | .00623 | .01676 | .01323 | .02009 | .39901 | .40972 |
| #2 | .00700 | .00475 | .02038 | .01132 | .02050 | .39646 | .40675 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | 2.0000 | 500.00 | 10.000 |
| Low | | | | | -.02000 | -.40000 | -.20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .01038 | 9.6010 | .00958 | .10285 | .01923 | .05198 | .19351 |
| SDev | .00004 | .0275 | .00006 | .00040 | .00051 | .00004 | .00711 |
| %RSD | .36122 | .28672 | .67579 | .39087 | 2.6531 | .07293 | 3.6765 |
| #1 | .01035 | 9.5816 | .00954 | .10314 | .01887 | .05200 | .18848 |
| #2 | .01040 | 9.6205 | .00963 | .10257 | .01960 | .05195 | .19854 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 500.00 | 10.000 | 10.000 | 10.000 | 10.000 | 200.00 |
| Low | -.01000 | -1.0000 | -.01000 | -.02000 | -.02000 | -.02000 | -.20000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 9.1370 | 10.063 | .03071 | 9.1977 | .08011 | .12274 | .10282 |
| SDev | .0052 | .019 | .00002 | .0075 | .00015 | .00046 | .00019 |
| %RSD | .05730 | .18615 | .06703 | .08106 | .18410 | .37217 | .18873 |
| #1 | 9.1407 | 10.050 | .03069 | 9.1924 | .08000 | .12241 | .10268 |
| #2 | 9.1333 | 10.076 | .03072 | 9.2030 | .08021 | .12306 | .10296 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 100.00 | 500.00 | 10.000 | 100.00 | 10.000 | 2.0000 | 10.000 |
| Low | -1.0000 | -1.0000 | -.02000 | -1.0000 | -.04000 | -.04000 | -.02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .03914 | .00924 | .00549 | .01437 | .02422 | .01946 | .19826 |
| SDev | .00039 | .00353 | .00001 | .00005 | .00177 | .00002 | .00029 |
| %RSD | 1.0018 | 38.239 | .16982 | .34027 | 7.2949 | .09105 | .14724 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .03942 | .01174 | .00549 | .01441 | .02547 | .01947 | .19847 |
| #2 | .03887 | .00674 | .00550 | .01434 | .02297 | .01945 | .19806 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |
| Low | -.04000 | -.02000 | -.00600 | -.01000 | -.02000 | -.02000 | -.20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .10959 | .10487 | .02217 | .02007 |
| SDev | .00056 | .00178 | .00000 | .00010 |
| %RSD | .50899 | 1.7001 | .00000 | .48044 |
| #1 | .10999 | .10361 | .02217 | .02013 |
| #2 | .10920 | .10613 | .02217 | .02000 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 50.000 | 10.000 | 10.000 | 10.000 |
| Low | -.10000 | -.10000 | -.02000 | -.02000 |

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Method: 28EL Sample Name: ICSA Operator: SW
Run Time: 09/17/04 15:18:48
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | -.01619 | .00638 | .01572 | -.00743 | .00038 | 491.89 | .00034 |
| SDev | .00079 | .00291 | .01746 | .00079 | .00005 | 2.89 | .00002 |
| %RSD | 4.8840 | 45.649 | 111.11 | 10.579 | 12.270 | .58693 | 6.9883 |
| #1 | -.01563 | .00432 | .02806 | -.00798 | .00034 | 493.93 | .00036 |
| #2 | -.01675 | .00844 | .00337 | -.00687 | .00041 | 489.85 | .00032 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | | | | .00000 | 500.00 | .00000 |
| Range | | | | | .02000 | 100.00 | .20000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00101 | 495.53 | -.00057 | .00366 | -.00004 | .00047 | 199.79 |
| SDev | .00002 | .94 | .00000 | .00018 | .00010 | .00017 | .14 |
| %RSD | 1.8631 | .18890 | .34517 | 4.9753 | 276.04 | 36.686 | .07175 |
| #1 | .00102 | 494.87 | -.00056 | .00379 | .00004 | .00034 | 199.69 |
| #2 | .00100 | 496.19 | -.00057 | .00353 | -.00011 | .00059 | 199.89 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .00000 | 500.00 | .00000 | .00000 | .00000 | .00000 | 200.00 |
| Range | .01000 | 100.00 | .01000 | .02000 | .02000 | .02000 | 40.000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .10562 | 518.01 | .00751 | .24704 | .00337 | .00215 | .00442 |
| SDev | .00200 | .33 | .00010 | .00350 | .00049 | .00142 | .00000 |
| %RSD | 1.8907 | .06450 | 1.3696 | 1.4159 | 14.457 | 66.209 | .00652 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .10421 | 518.25 | .00758 | .24952 | .00303 | .00114 | .00442 |
| #2 | .10704 | 517.78 | .00744 | .24457 | .00372 | .00316 | .00442 |
| Errors | NOCHECK | QC Pass | QC Pass | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | 500.00 | .00000 | | .00000 | .00000 | .00000 |
| Range | | 100.00 | .02000 | | .04000 | .04000 | .02000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .00329 | .00030 | -.00114 | .00028 | -.00738 | -.01091 | .00209 |
| SDev | .00039 | .00255 | .00168 | .00529 | .00269 | .00013 | .00026 |
| %RSD | 11.933 | 853.64 | 147.55 | 1885.5 | 36.415 | 1.1499 | 12.575 |
| #1 | .00301 | .00211 | -.00232 | .00402 | -.00928 | -.01082 | .00227 |
| #2 | .00356 | -.00151 | .00005 | -.00346 | -.00548 | -.01100 | .00190 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 | .00000 |
| Range | .04000 | .02000 | .00600 | .01000 | .02000 | .02000 | .20000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .01095 | -.00495 | -.00075 | .00555 |
| SDev | .00036 | .00150 | .00024 | .00002 |
| %RSD | 3.3209 | 30.275 | 32.088 | .42883 |
| #1 | .01069 | -.00602 | -.00092 | .00556 |
| #2 | .01121 | -.00389 | -.00058 | .00553 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .00000 | .00000 | .00000 | .00000 |
| Range | .10000 | .10000 | .02000 | .02000 |

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Method: 28EL Sample Name: ICSAB Operator: SW
Run Time: 09/17/04 15:21:20
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | .03756 | .04999 | .07728 | .03908 | .19633 | 476.94 | .45745 |
| SDev | .00086 | .00149 | .00465 | .00059 | .00056 | 1.30 | .00037 |
| %RSD | 2.3005 | 2.9758 | 6.0180 | 1.5116 | .28576 | .27228 | .08091 |
| #1 | .03695 | .04894 | .07399 | .03950 | .19594 | 476.02 | .45719 |
| #2 | .03818 | .05104 | .08057 | .03866 | .19673 | 477.86 | .45771 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | | | | .20000 | 500.00 | .50000 |
| Range | | | | | 20.000 | 20.000 | 20.000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .45989 | 490.47 | .86923 | .44769 | .42896 | .50022 | 196.46 |
| SDev | .00174 | .49 | .00016 | .00295 | .00123 | .00320 | .73 |
| %RSD | .37881 | .10076 | .01874 | .65948 | .28714 | .64014 | .37058 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .45866 | 490.12 | .86935 | .44560 | .42809 | .49795 | 195.95 |
| #2 | .46112 | 490.82 | .86912 | .44978 | .42984 | .50248 | 196.98 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | 500.00 | 1.0000 | .50000 | .50000 | .50000 | 200.00 |
| Range | 20.000 | 20.000 | 20.000 | 20.000 | 20.000 | 20.000 | 20.000 |
| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | -.00775 | 506.73 | .44141 | .15383 | .85323 | .60931 | .45881 |
| SDev | .00658 | 2.08 | .00122 | .00107 | .00209 | .00503 | .00156 |
| %RSD | 84.929 | .41016 | .27640 | .69359 | .24524 | .82618 | .34119 |
| #1 | -.00309 | 505.26 | .44054 | .15458 | .85175 | .60575 | .45771 |
| #2 | -.01240 | 508.20 | .44227 | .15308 | .85471 | .61287 | .45992 |
| Errors | NOCHECK | QC Pass | QC Pass | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | 500.00 | .50000 | | 1.0000 | .60000 | .50000 |
| Range | | 20.000 | 20.000 | | 20.000 | 20.000 | 20.000 |
| Elem | Zn | As | Pb | Se | Tl | Ti | B |
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .88847 | .10086 | .04585 | .05180 | .08648 | .89840 | .97321 |
| SDev | .00553 | .00071 | .00128 | .00115 | .00293 | .00301 | .00368 |
| %RSD | .62222 | .70773 | 2.7916 | 2.2292 | 3.3835 | .33460 | .37795 |
| #1 | .88456 | .10036 | .04495 | .05098 | .08855 | .89627 | .97061 |
| #2 | .89238 | .10137 | .04676 | .05262 | .08441 | .90053 | .97581 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | 1.0000 | .10000 | .05000 | .05000 | .10000 | 1.0000 | 1.0000 |
| Range | 20.000 | 20.000 | 20.000 | 20.000 | 20.000 | 20.000 | 20.000 |
| Elem | Si | Sn | Mo | Sr | | | |
| Units | ppm | ppm | ppm | ppm | | | |
| Avge | .97449 | .99201 | .95694 | .91700 | | | |
| SDev | .00366 | .01490 | .00967 | .00061 | | | |
| %RSD | .37593 | 1.5025 | 1.0102 | .06632 | | | |
| #1 | .97190 | .98147 | .95010 | .91657 | | | |
| #2 | .97708 | 1.0026 | .96377 | .91743 | | | |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | | | |
| Value | 1.0000 | 1.0000 | 1.0000 | 1.0000 | | | |
| Range | 20.000 | 20.000 | 20.000 | 20.000 | | | |

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Method: 28EL Sample Name: CCV Operator: SW
Run Time: 09/17/04 15:23:53
Comment:
Mode: CONC Corr. Factor: 1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
| Units | | | | | PPM | PPM | PPM |
| Avge | .50020 | .48452 | .54099 | .50407 | .49109 | 49.654 | .49183 |
| SDev | .00470 | .00184 | .00214 | .00005 | .00054 | .018 | .00127 |
| %RSD | .93891 | .37980 | .39591 | .00977 | .10972 | .03618 | .25744 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| #1 | .50352 | .48322 | .54250 | .50403 | .49147 | 49.641 | .49272 |
| #2 | .49688 | .48582 | .53947 | .50410 | .49071 | 49.667 | .49093 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | QC Pass | QC Pass | QC Pass |
| Value | | | | | .50000 | 50.500 | .50000 |
| Range | | | | | 10.000 | 10.000 | 10.000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .51011 | 50.212 | .48683 | .49247 | .48169 | .49712 | 20.073 |
| SDev | .00199 | .196 | .00177 | .00266 | .00212 | .00004 | .043 |
| %RSD | .39009 | .39074 | .36262 | .54093 | .44077 | .00763 | .21545 |
| #1 | .51152 | 50.351 | .48808 | .49435 | .48319 | .49715 | 20.104 |
| #2 | .50871 | 50.073 | .48558 | .49058 | .48019 | .49709 | 20.043 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | 50.500 | .50000 | .50000 | .50000 | .50000 | 20.500 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | 20.037 | 50.183 | .48289 | 20.575 | .47822 | .51973 | .49879 |
| SDev | .022 | .125 | .00146 | .019 | .00258 | .00747 | .00214 |
| %RSD | .11090 | .24976 | .30205 | .08997 | .53910 | 1.4379 | .42908 |
| #1 | 20.021 | 50.272 | .48392 | 20.562 | .48004 | .52501 | .50030 |
| #2 | 20.052 | 50.095 | .48186 | 20.588 | .47640 | .51444 | .49727 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | 20.000 | 50.500 | .50000 | 20.500 | .50000 | .50000 | .50000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | .50570 | .51408 | .48974 | .51636 | .51632 | .47426 | 1.0056 |
| SDev | .00249 | .00467 | .00034 | .00068 | .00333 | .00135 | .0035 |
| %RSD | .49299 | .90831 | .06871 | .13176 | .64467 | .28367 | .35202 |
| #1 | .50746 | .51078 | .48998 | .51685 | .51868 | .47521 | 1.0081 |
| #2 | .50394 | .51738 | .48950 | .51588 | .51397 | .47330 | 1.0031 |
| Errors | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass | QC Pass |
| Value | .50000 | .50000 | .50000 | .50000 | .50000 | .50000 | 1.0000 |
| Range | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 | 10.000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | Q.27906 | .51066 | .50480 | .48630 |
| SDev | .00022 | .00048 | .00289 | .00138 |
| %RSD | .07724 | .09351 | .57269 | .28340 |
| #1 | Q.27891 | .51100 | .50685 | .48727 |
| #2 | Q.27921 | .51032 | .50276 | .48532 |
| Errors | QC Fail | QC Pass | QC Pass | QC Pass |
| Value | .25000 | .50000 | .50000 | .50000 |

| Range | 10.000 | 10.000 | 10.000 | 10.000 |
|---|---|---|---|---|

Method: 28EL Sample Name: CCB Operator: SW
Run Time: 09/17/04 15:26:26
Comment:
Mode: CONC Corr. Factor: 1

| Elem | 2203/1 | 2203/2 | 1960/1 | 1960/2 | Ag | Al | Ba |
|---|---|---|---|---|---|---|---|
| Units | | | | | PPM | PPM | PPM |
| Avge | -.00478 | .00187 | .00860 | -.00131 | .00016 | .03244 | -.00004 |
| SDev | .00384 | .00261 | .01345 | .00094 | .00039 | .00565 | .00001 |
| %RSD | 80.396 | 139.08 | 156.41 | 71.158 | 247.45 | 17.425 | 31.247 |
| #1 | -.00749 | .00372 | -.00091 | -.00065 | -.00012 | .03644 | -.00003 |
| #2 | -.00206 | .00003 | .01811 | -.00198 | .00043 | .02844 | -.00005 |
| Errors | NOCHECK | NOCHECK | NOCHECK | NOCHECK | LC Pass | LC Pass | LC Pass |
| High | | | | | .01000 | .20000 | .10000 |
| Low | | | | | -.01000 | -.20000 | -.10000 |

| Elem | Be | Ca | Cd | Co | Cr | Cu | Fe |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .00005 | .07425 | -.00069 | -.00010 | -.00050 | .00123 | .04055 |
| SDev | .00002 | .00134 | .00009 | .00029 | .00016 | .00008 | .00930 |
| %RSD | 34.301 | 1.8002 | 13.091 | 295.61 | 31.370 | 6.1693 | 22.930 |
| #1 | .00007 | .07519 | -.00063 | .00011 | -.00039 | .00128 | .04712 |
| #2 | .00004 | .07330 | -.00076 | -.00031 | -.00061 | .00118 | .03397 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .00500 | 1.0000 | .00500 | .01000 | .01000 | .01000 | .10000 |
| Low | -.00500 | -1.0000 | -.00500 | -.01000 | -.01000 | -.01000 | -.10000 |

| Elem | K_ | Mg | Mn | Na | Ni | Sb | V_ |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | PPM | PPM |
| Avge | .11929 | .03838 | .00034 | .10147 | .00080 | -.00288 | -.00038 |
| SDev | .01036 | .00481 | .00002 | .00117 | .00023 | .00284 | .00019 |
| %RSD | 8.6836 | 12.527 | 6.0713 | 1.1508 | 28.055 | 98.617 | 50.491 |
| #1 | .11196 | .04178 | .00032 | .10230 | .00065 | -.00488 | -.00025 |
| #2 | .12661 | .03498 | .00035 | .10065 | .00096 | -.00087 | -.00052 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | 1.0000 | 1.0000 | .01000 | 1.0000 | .02000 | .02000 | .01000 |
| Low | -1.0000 | -1.0000 | -.01000 | -1.0000 | -.02000 | -.02000 | -.01000 |

| Elem | Zn | As | Pb | Se | Tl | Ti | B |
|---|---|---|---|---|---|---|---|
| Units | PPM | PPM | PPM | PPM | PPM | ppm | ppm |
| Avge | -.00420 | .00170 | -.00034 | .00199 | .00096 | .00027 | .00351 |
| SDev | .00052 | .00076 | .00046 | .00386 | .00110 | .00014 | .00112 |
| %RSD | 12.447 | 44.873 | 134.38 | 194.01 | 114.70 | 51.915 | 31.969 |
| #1 | -.00383 | .00224 | -.00002 | -.00074 | .00018 | .00017 | .00430 |
| #2 | -.00457 | .00116 | -.00067 | .00471 | .00174 | .00037 | .00272 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .02000 | .01000 | .00300 | .00500 | .01000 | .01000 | .10000 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Low | -.02000 | -.01000 | -.00300 | -.00500 | -.01000 | -.01000 | -.10000 |

| Elem | Si | Sn | Mo | Sr |
|---|---|---|---|---|
| Units | ppm | ppm | ppm | ppm |
| Avge | .00028 | -.00105 | .00112 | .00024 |
| SDev | .00139 | .00131 | .00048 | .00001 |
| %RSD | 489.75 | 125.41 | 42.902 | 4.8802 |
| #1 | .00126 | -.00012 | .00078 | .00023 |
| #2 | -.00070 | -.00197 | .00146 | .00024 |
| Errors | LC Pass | LC Pass | LC Pass | LC Pass |
| High | .05000 | .05000 | .01000 | .01000 |
| Low | -.05000 | -.05000 | -.01000 | -.01000 |

HEADER INFROMATION FOR ANALYTICAL SEQUENCE MS040917A

Reviewed SW 9/20/04

STANDARD SOLUTIONS

ST040608-12 = 40 PPM - Al; 10 PPM - Cd, Pb; 4 PPM - As, Se; 2 PPM – Ag, Sb, U, Mo; 0.4 PPM - Th; 0.1 PPM - Tl.
EXPIRES: 09/30/05.

CALIBRATION STANDARDS

HIGH STD (200 ppb - Al; 50 ppb - Cd, Pb; 20 ppb - As, Se; 10ppb - Ag, Sb, U, Mo; 2 ppb - Th; 0.5ppb - Tl.) Made daily by diluting (ST040608-12) 200 fold, (0.05ml up to a 10 ml final volume).
MID LEVEL STD (40 ppb - Al; 10 ppb - Cd, Pb; 4 ppb - As, Se; 2ppb - Ag, Sb, U, Mo; 0.4 ppb - Th; 0.1ppb - Tl.) Made daily by diluting 2.0ml of the HIGH STD calibration standard up to a 10ml final volume, (1000 fold dilution of ST040608-12).
LOW LEVEL STD (20 ppb - Al; 5 ppb - Cd, Pb; 2 ppb - As, Se; 1ppb - Ag, Sb, U, Mo; 0.2 ppb - Th; 0.05ppb - Tl.) Made daily by diluting 1.0ml of the HIGH STD calibration standard up to a 10ml final volume, (2000 fold dilution of ST040608-12).
RL STD - Made daily by diluting (RL Intermediate ST040608-11--EXPIRES 09/30/05) 200 fold, (0.05ml up to a 10ml final volume). When ST040608-11 is diluted 200 fold it yields a solution at the reporting limit. (2 ppb - Al; 0.2 ppb - As; 0.1 ppb - Se,Mo; 0.05 ppb - Pb; 0.03 ppb - Cd, Sb; 0.02 ppb - Tl, Th; 0.01 ppb – Ag,U.)

INTERFERENCE CHECK SOLUTIONS

ICSA Made daily by diluting 0.1ml of (ST031124-5--EXPIRES: 12/01/04) up to a 10ml final volume, (100 fold dilution). The ICSA working solution contains the following elements and concentrations:

| Element | Concentration (PPM) |
|---|---|
| Cl | 212.15 |
| Ca | 30 |
| Fe,Na | 25 |
| C | 20 |
| Al,K,Mg,P,S | 10 |
| Mo,Ti | 0.2 |

ICSAB Made daily by diluting 0.1ml of (ST031124-5--EXPIRES: 12/01/04) and 2ml of the HIGH STD calibration standard up to a 10ml final volume. (This solution is a 100 fold dilution of ST031124-5 and a 1000 fold dilution of ST040608-12.) The ICSAB working solution contains the following elements and concentrations:

| Element | Concentration (PPM) |
|---|---|
| Cl | 212.15 |
| Ca | 30 |
| Fe,Na | 25 |
| C | 20 |
| Al,K,Mg,P,S | 10 |
| Mo,Ti | 0.2 |
| Cd,Pb | 0.01 |
| As,Se | 0.004 |
| Ag,Sb,U | 0.002 |
| Tl | 0.0001 |

ICSA_MO – Direct analysis of (ST040610-2 Expires 11-07-05). This solution is custom and made to be as close as possible to the ICSA above, without Mo. This ICSA working solution contains the following elements and concentrations:

| Element | Concentration (PPM) |
|---|---|
| Ca | 30 |
| Fe,Na | 25 |
| Al,K,Mg,P | 10 |
| Ti | 0.2 |

ICSAB_MO Made daily by diluting 0.04ml of (ST040608-13--EXPIRES: 10/22/04) up to a 10ml final volume with ICSA (Mo) solution above (ST040610-2 Expires 11-07-05). (This solution is a 250 fold dilution of ST040608-13.) This ICSAB working solution contains the following elements and concentrations:

| Element | Concentration (PPM) |
|---|---|
| Ca | 30 |
| Fe,Na | 25 |
| Al,K,Mg,P | 10 |
| Ti | 0.2 |
| Mo | 0.002 |
| Cd,Pb | 0.01 |
| As,Se | 0.004 |
| Ag,Sb,U | 0.002 |
| Tl | 0.0001 |

CALIBRATION CHECK STANDARDS

ICV Made daily by diluting ICV second source intermediate (ST040720-11--EXPIRES: 10/22/04) 200 fold, (0.05ml up to a 10ml final volume). The ICV working solution contains the following elements and concentrations:

| Element | Concentration (ppb) |
|---|---|
| Al | 50 |
| Cd,Pb | 12.5 |
| As,Se | 5 |
| Ag,Sb,U,Mo | 2.5 |
| Th | 0.5 |
| Tl | 0.125 |

CCV Made daily by diluting 2.0ml of the HIGH STD calibration standard up to a 10ml final volume, (1000 fold dilution of ST040608-12). The CCV working solution contains the following elements and concentrations:

| Element | Concentration (ppb) |
|---|---|
| Al | 40 |
| Cd,Pb | 10 |
| As,Se | 4 |
| Ag,Sb,U,Mo | 2 |
| Th | 0.4 |
| Tl | 0.1 |

CRI Re-analysis of the RL STD (made daily as described above). The CRI working solution contains the following elements and concentrations:

| Element | Concentration (ppb) |
|---|---|
| Al | 2.0 |
| As | 0.2 |
| Se,Mo | 0.1 |
| Pb | 0.05 |
| Cd,Sb | 0.03 |
| Tl,Th | 0.02 |
| Ag,U | 0.01 |

BLANK

ICB / CCB and all diluent – 1% $HNO_3$, 1% HCl in double deionized water.

INTERNAL STANDARDS

Internal Standard Intermediate (ST040720-8 --EXPIRES: 03/01/05) contains 1 PPM each of Bi, Rh, In; and 2 PPM each of Ga, Pt. This intermediate is added to all standards and samples in the same proportion of 1 on top of 100. Most often this is done by adding 0.05ml of Internal Standard Intermediate on top of 5ml of sample or standard. The final concentration of internal standard in the working solutions or samples is about 10 ppb In, Rh, Bi; and 20 ppb Ga, Pt.

ACID LOT NUMBERS

$HNO_3$ – A16051
HCl – Y25027

PIPET ID NUMBERS

1.0 to 5.0ml -- M-58
0.1 to 1.0ml – M-60
0.01 to 0.1ml -- M-56

DILUTIONS

2X dilutions made by diluting 5ml of sample to a 10ml final volume.
5X dilutions made by diluting 1ml of sample to a 5ml final volume.
10X dilutions made by diluting 1ml of sample to a 10ml final volume.
50X dilutions made by diluting 0.1ml of sample to a 5ml final volume.
100X dilutions made by diluting 0.1ml of sample to a 10ml final volume.
200X dilutions made by diluting 0.05ml of sample to a 10ml final volume.

ANALYTICAL SPIKES
0409105-2 spiked for Tl at 0.1 ppb by diluting 0.02ml of (ST040720-11 = 25 ppb Tl) up to a 5 ml final volume with the ten fold dilution of the sample.

0405097-6 post spiked for U at 2 ppb by diluting 0.02ml of (ST040720-11 = 500 ppb U) up to a 5 ml final volume with the ten fold dilution of the sample digestate

0409067-3 spiked for U at 2 ppb by diluting 0.02ml of (ST040720-11 = 500 ppb U) up to a 5 ml final volume with the fifty fold dilution of the sample.

DAILY MAINTENANCE ITEMS

1. Check / change pump tubing
2. Check / empty drain containers
3. Tune instrument per manufacturer's procedures
4. Perform ten minute stability test (include results with data package)

MONTHLY MAINTENANCE ITEMS

1. Check / clean torch and cones for deposits
2. Check / clean nebulizer and spray chamber
3. Check / fill water recirculating reservoirs
4. Check / fill vacuum pump oil

COMMENTS

IDL / MDL working solution is made by diluting (MDL/IDL Intermediate ST040609-5) 1,000 fold. (0.1ml up to a 100ml final volume.)

The IDL / MDL working solution contains the following elements and concentrations:

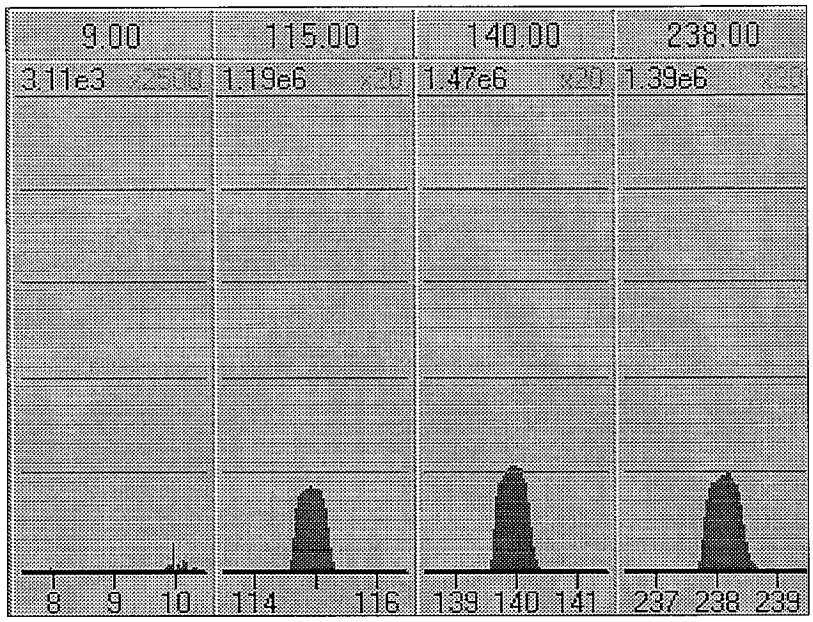
| Element | Concentration (ppb) |
|---|---|
| Al | 1.0 |
| Cd,Tl | 0.005 |
| As | 0.06 |
| Pb | 0.04 |
| Se,Sb,Mo | 0.02 |
| Th | 0.01 |
| U | 0.002 |
| Ag | 0.004 |

Tuning Method Report



Method: C:\MASSLYNX\AUG2002.PRO\ACQUDB\14AUGJTF TUNE

Printed: Fri Sep 17 11:24:19 2004




| ANALYSER | Set | Rdbk |
|---|---|---|
| Cone Lens | 60 | -74 |
| Hex Exit Lens | 400 | 419 |
| Hex Bias | 0.2 | |
| LM Resolution | 12.5 | |
| High Resolution | 12.5 | |
| Ion Energy | 2.0 | |
| Multiplier | 500 | -516 |

| Pressures | Rdbk |
|---|---|
| Analyser Vacuum | 2.6e-5 |

| TORCH | Set | |
|---|---|---|
| X-Axis | 2.34 | 2.34 |
| Y-Axis | -0.82 | -0.79 |
| Z-Axis | -0.55 | -0.57 |
| Forward Power | 1350 | 1345 |

| GAS | Set | |
|---|---|---|
| Cool Gas | 13.50 | 13.49 |
| Intermediate Gas | 0.80 | 0.80 |
| Nebuliser Gas 1 | 0.80 | 0.80 |
| Nebuliser Gas 2 | 0.00 | 0.01 |
| Helium | 5.5 | 5.5 |
| Hydrogen | 3.0 | 3.0 |
| Hexapole Aux | 0.00 | 0.37 |
| Laser Gas | 0.00 | 0.29 |

Quantify Compound Summary Report
17SEP04



Sample List: C:\MASSLYNX\AUG2002.PRO\SampleDB\stability 17SEP04A
Last modified: Fri Sep 17 11:24:43 2004
Method: C:\MASSLYNX\AUG2002.PRO\MethDB\Tune QUANT
Last modified: Wed Nov 13 14:31:12 2002
Job Code:

Printed: Fri Sep 17 12:08:48 2004

Compound 1: 9Be

| # | File name | Sample ID | PPB | CPS | IS CPS | %StdDev | Aq Dat |
|---|---|---|---|---|---|---|---|
| 1 | 17SEP04 01 | | | 2 | | 93.125 | 17-Sep-( |
| 2 | 17SEP04 02 | | | 2 | | 87.016 | 17-Sep-( |
| 3 | 17SEP04 03 | | | 1 | | 137.924 | 17-Sep-( |
| 4 | 17SEP04 04 | | | 1 | | 108.366 | 17-Sep-( |
| 5 | 17SEP04 05 | | | 1 | | 126.752 | 17-Sep-( |
| 6 | 17SEP04 06 | | | 1 | | 126.760 | 17-Sep-( |
| 7 | 17SEP04 07 | | | 1 | | 165.276 | 17-Sep-( |
| 8 | 17SEP04 08 | | | 1 | | 165.317 | 17-Sep-( |
| 9 | 17SEP04 09 | | | | | | |
| 10 | 17SEP04 10 | | | 1 | | 145.740 | 17-Sep-( |
| 11 | 17SEP04 11 | | | 1 | | 138.393 | 17-Sep-( |
| 12 | 17SEP04 12 | | | 1 | | 126.820 | 17-Sep-( |
| 13 | 17SEP04 13 | | | 1 | | 127.056 | 17-Sep-( |
| 14 | 17SEP04 14 | | | 1 | | 127.095 | 17-Sep-( |
| 15 | 17SEP04 15 | | | 1 | | 145.643 | 17-Sep-( |
| 16 | 17SEP04 16 | | | 1 | | 168.728 | 17-Sep-( |
| 17 | 17SEP04 17 | | | 1 | | 126.731 | 17-Sep-( |
| 18 | 17SEP04 18 | | | 1 | | 150.810 | 17-Sep-( |
| 19 | 17SEP04 19 | | | 1 | | 145.651 | 17-Sep-( |
| 20 | 17SEP04 20 | | | 1 | | 164.899 | 17-Sep-( |
| 21 | 17SEP04 21 | | | 2 | | 86.659 | 17-Sep-( |
| 22 | 17SEP04 22 | | | 1 | | 108.362 | 17-Sep-( |
| 23 | 17SEP04 23 | | | 1 | | 145.361 | 17-Sep-( |
| 24 | 17SEP04 24 | | | 1 | | 137.985 | 17-Sep-( |
| 25 | 17SEP04 25 | | | 1 | | 127.140 | 17-Sep-( |
| 26 | 17SEP04 26 | | | 1 | | 160.103 | 17-Sep-( |
| 27 | 17SEP04 27 | | | 1 | | 168.744 | 17-Sep-( |
| 28 | 17SEP04 28 | | | 1 | | 126.977 | 17-Sep-( |
| 29 | 17SEP04 29 | | | 1 | | 158.321 | 17-Sep-( |

Sample List: C:\MASSLYNX\AUG2002.PRO\SampleDB\stability 17SEP04A
Last modified: Fri Sep 17 11:24:43 2004
Method: C:\MASSLYNX\AUG2002.PRO\MethDB\Tune QUANT
Last modified: Wed Nov 13 14:31:12 2002
Job Code:

Printed: Fri Sep 17 12:08:48 2004

Compound 2: 24Mg

| # | File name | Sample ID | PPB | CPS | IS CPS | %StdDev | Aq Dat |
|---|---|---|---|---|---|---|---|
| 1 | 17SEP04 01 | | | 102582 | | 0.039 | 17-Sep-( |
| 2 | 17SEP04 02 | | | 104405 | | 0.039 | 17-Sep-( |
| 3 | 17SEP04 03 | | | 103122 | | 0.037 | 17-Sep-( |
| 4 | 17SEP04 04 | | | 104126 | | 0.037 | 17-Sep-( |
| 5 | 17SEP04 05 | | | 103320 | | 0.038 | 17-Sep-( |
| 6 | 17SEP04 06 | | | 102630 | | 0.037 | 17-Sep-( |
| 7 | 17SEP04 07 | | | 102798 | | 0.036 | 17-Sep-( |
| 8 | 17SEP04 08 | | | 102926 | | 0.036 | 17-Sep-( |
| 9 | 17SEP04 09 | | | 102246 | | 0.038 | 17-Sep-( |
| 10 | 17SEP04 10 | | | 99947 | | 0.037 | 17-Sep-( |
| 11 | 17SEP04 11 | | | 97003 | | 0.047 | 17-Sep-( |
| 12 | 17SEP04 12 | | | 96440 | | 0.050 | 17-Sep-( |
| 13 | 17SEP04 13 | | | 95798 | | 0.043 | 17-Sep-( |
| 14 | 17SEP04 14 | | | 96083 | | 0.047 | 17-Sep-( |
| 15 | 17SEP04 15 | | | 96409 | | 0.043 | 17-Sep-( |
| 16 | 17SEP04 16 | | | 96578 | | 0.049 | 17-Sep-( |
| 17 | 17SEP04 17 | | | 98660 | | 0.051 | 17-Sep-( |
| 18 | 17SEP04 18 | | | 98421 | | 0.048 | 17-Sep-( |
| 19 | 17SEP04 19 | | | 97799 | | 0.036 | 17-Sep-( |
| 20 | 17SEP04 20 | | | 98525 | | 0.047 | 17-Sep-( |
| 21 | 17SEP04 21 | | | 98215 | | 0.042 | 17-Sep-( |
| 22 | 17SEP04 22 | | | 99016 | | 0.039 | 17-Sep-( |
| 23 | 17SEP04 23 | | | 98865 | | 0.042 | 17-Sep-( |
| 24 | 17SEP04 24 | | | 97857 | | 0.038 | 17-Sep-( |
| 25 | 17SEP04 25 | | | 98534 | | 0.037 | 17-Sep-( |
| 26 | 17SEP04 26 | | | 98570 | | 0.042 | 17-Sep-( |
| 27 | 17SEP04 27 | | | 97659 | | 0.046 | 17-Sep-( |
| 28 | 17SEP04 28 | | | 98186 | | 0.042 | 17-Sep-( |
| 29 | 17SEP04 29 | | | 98464 | | 0.036 | 17-Sep-( |

Sample List: C:\MASSLYNX\AUG2002.PRO\SampleDB\stability 17SEP04A
Last modified: Fri Sep 17 11:24:43 2004
Method: C:\MASSLYNX\AUG2002.PRO\MethDB\Tune QUANT
Last modified: Wed Nov 13 14:31:12 2002
Job Code:

Printed: Fri Sep 17 12:08:48 2004

Compound 3: 59Co

| # | File name | Sample ID | PPB | CPS | IS CPS | %StdDev | Aq Dat |
|---|---|---|---|---|---|---|---|
| 1 | 17SEP04 01 | | | 447951 | | 0.020 | 17-Sep-( |
| 2 | 17SEP04 02 | | | 447334 | | 0.015 | 17-Sep-( |
| 3 | 17SEP04 03 | | | 444036 | | 0.014 | 17-Sep-( |
| 4 | 17SEP04 04 | | | 442165 | | 0.015 | 17-Sep-( |
| 5 | 17SEP04 05 | | | 441969 | | 0.018 | 17-Sep-( |
| 6 | 17SEP04 06 | | | 437816 | | 0.016 | 17-Sep-( |
| 7 | 17SEP04 07 | | | 433728 | | 0.016 | 17-Sep-( |
| 8 | 17SEP04 08 | | | 436826 | | 0.016 | 17-Sep-( |
| 9 | 17SEP04 09 | | | 430795 | | 0.014 | 17-Sep-( |
| 10 | 17SEP04 10 | | | 423635 | | 0.016 | 17-Sep-( |
| 11 | 17SEP04 11 | | | 407928 | | 0.015 | 17-Sep-( |
| 12 | 17SEP04 12 | | | 404073 | | 0.018 | 17-Sep-( |
| 13 | 17SEP04 13 | | | 401389 | | 0.016 | 17-Sep-( |
| 14 | 17SEP04 14 | | | 398291 | | 0.020 | 17-Sep-( |
| 15 | 17SEP04 15 | | | 396122 | | 0.017 | 17-Sep-( |
| 16 | 17SEP04 16 | | | 399458 | | 0.018 | 17-Sep-( |
| 17 | 17SEP04 17 | | | 399782 | | 0.016 | 17-Sep-( |
| 18 | 17SEP04 18 | | | 402251 | | 0.020 | 17-Sep-( |
| 19 | 17SEP04 19 | | | 406204 | | 0.017 | 17-Sep-( |
| 20 | 17SEP04 20 | | | 408117 | | 0.015 | 17-Sep-( |
| 21 | 17SEP04 21 | | | 406377 | | 0.016 | 17-Sep-( |
| 22 | 17SEP04 22 | | | 407164 | | 0.016 | 17-Sep-( |
| 23 | 17SEP04 23 | | | 406750 | | 0.017 | 17-Sep-( |
| 24 | 17SEP04 24 | | | 404420 | | 0.014 | 17-Sep-( |
| 25 | 17SEP04 25 | | | 406340 | | 0.016 | 17-Sep-( |
| 26 | 17SEP04 26 | | | 405512 | | 0.018 | 17-Sep-( |
| 27 | 17SEP04 27 | | | 404126 | | 0.017 | 17-Sep-( |
| 28 | 17SEP04 28 | | | 403490 | | 0.014 | 17-Sep-( |
| 29 | 17SEP04 29 | | | 403054 | | 0.016 | 17-Sep-( |

Quantify Compound Summary Report
17SEP04



Sample List: C:\MASSLYNX\AUG2002.PRO\SampleDB\stability 17SEP04A
Last modified: Fri Sep 17 11:24:43 2004
Method: C:\MASSLYNX\AUG2002.PRO\MethDB\Tune QUANT
Last modified: Wed Nov 13 14:31:12 2002
Job Code:

Printed: Fri Sep 17 12:08:48 2004

Compound 4: 60Ni

| # | File name | Sample ID | PPB | CPS | IS CPS | %StdDev | Aq Dat |
|---|---|---|---|---|---|---|---|
| 1 | 17SEP04 01 | | | 84855 | | 0.050 | 17-Sep-( |
| 2 | 17SEP04 02 | | | 87507 | | 0.033 | 17-Sep-( |
| 3 | 17SEP04 03 | | | 86573 | | 0.043 | 17-Sep-( |
| 4 | 17SEP04 04 | | | 85898 | | 0.042 | 17-Sep-( |
| 5 | 17SEP04 05 | | | 85479 | | 0.041 | 17-Sep-( |
| 6 | 17SEP04 06 | | | 85213 | | 0.041 | 17-Sep-( |
| 7 | 17SEP04 07 | | | 83987 | | 0.042 | 17-Sep-( |
| 8 | 17SEP04 08 | | | 84788 | | 0.043 | 17-Sep-( |
| 9 | 17SEP04 09 | | | 83475 | | 0.034 | 17-Sep-( |
| 10 | 17SEP04 10 | | | 81503 | | 0.046 | 17-Sep-( |
| 11 | 17SEP04 11 | | | 78942 | | 0.044 | 17-Sep-( |
| 12 | 17SEP04 12 | | | 77594 | | 0.043 | 17-Sep-( |
| 13 | 17SEP04 13 | | | 76948 | | 0.036 | 17-Sep-( |
| 14 | 17SEP04 14 | | | 76425 | | 0.045 | 17-Sep-( |
| 15 | 17SEP04 15 | | | 76259 | | 0.044 | 17-Sep-( |
| 16 | 17SEP04 16 | | | 76823 | | 0.043 | 17-Sep-( |
| 17 | 17SEP04 17 | | | 77047 | | 0.043 | 17-Sep-( |
| 18 | 17SEP04 18 | | | 77815 | | 0.042 | 17-Sep-( |
| 19 | 17SEP04 19 | | | 78235 | | 0.037 | 17-Sep-( |
| 20 | 17SEP04 20 | | | 78531 | | 0.041 | 17-Sep-( |
| 21 | 17SEP04 21 | | | 78306 | | 0.044 | 17-Sep-( |
| 22 | 17SEP04 22 | | | 78575 | | 0.039 | 17-Sep-( |
| 23 | 17SEP04 23 | | | 78478 | | 0.042 | 17-Sep-( |
| 24 | 17SEP04 24 | | | 78214 | | 0.040 | 17-Sep-( |
| 25 | 17SEP04 25 | | | 77876 | | 0.042 | 17-Sep-( |
| 26 | 17SEP04 26 | | | 78270 | | 0.043 | 17-Sep-( |
| 27 | 17SEP04 27 | | | 77546 | | 0.046 | 17-Sep-( |
| 28 | 17SEP04 28 | | | 77629 | | 0.042 | 17-Sep-( |
| 29 | 17SEP04 29 | | | 77941 | | 0.038 | 17-Sep-( |

Sample List: C:\MASSLYNX\AUG2002.PRO\SampleDB\stability 17SEP04A
Last modified: Fri Sep 17 11:24:43 2004
Method: C:\MASSLYNX\AUG2002.PRO\MethDB\Tune QUANT
Last modified: Wed Nov 13 14:31:12 2002
Job Code:

Printed: Fri Sep 17 12:08:48 2004

Compound 5: 115In

| # | File name | Sample ID | PPB | CPS | IS CPS | %StdDev | Aq Dat |
|---|---|---|---|---|---|---|---|
| 1 | 17SEP04 01 | | | 1144968 | | 0.010 | 17-Sep-( |
| 2 | 17SEP04 02 | | | 1147332 | | 0.007 | 17-Sep-( |
| 3 | 17SEP04 03 | | | 1136625 | | 0.008 | 17-Sep-( |
| 4 | 17SEP04 04 | | | 1132845 | | 0.009 | 17-Sep-( |
| 5 | 17SEP04 05 | | | 1132378 | | 0.008 | 17-Sep-( |
| 6 | 17SEP04 06 | | | 1124262 | | 0.008 | 17-Sep-( |
| 7 | 17SEP04 07 | | | 1113871 | | 0.010 | 17-Sep-( |
| 8 | 17SEP04 08 | | | 1117350 | | 0.009 | 17-Sep-( |
| 9 | 17SEP04 09 | | | 1103044 | | 0.008 | 17-Sep-( |
| 10 | 17SEP04 10 | | | 1080968 | | 0.009 | 17-Sep-( |
| 11 | 17SEP04 11 | | | 1046287 | | 0.010 | 17-Sep-( |
| 12 | 17SEP04 12 | | | 1030822 | | 0.008 | 17-Sep-( |
| 13 | 17SEP04 13 | | | 1025973 | | 0.011 | 17-Sep-( |
| 14 | 17SEP04 14 | | | 1020582 | | 0.011 | 17-Sep-( |
| 15 | 17SEP04 15 | | | 1013805 | | 0.010 | 17-Sep-( |
| 16 | 17SEP04 16 | | | 1019769 | | 0.010 | 17-Sep-( |
| 17 | 17SEP04 17 | | | 1026289 | | 0.011 | 17-Sep-( |
| 18 | 17SEP04 18 | | | 1029978 | | 0.010 | 17-Sep-( |
| 19 | 17SEP04 19 | | | 1042101 | | 0.008 | 17-Sep-( |
| 20 | 17SEP04 20 | | | 1039977 | | 0.008 | 17-Sep-( |
| 21 | 17SEP04 21 | | | 1041393 | | 0.010 | 17-Sep-( |
| 22 | 17SEP04 22 | | | 1043336 | | 0.009 | 17-Sep-( |
| 23 | 17SEP04 23 | | | 1042839 | | 0.009 | 17-Sep-( |
| 24 | 17SEP04 24 | | | 1042010 | | 0.008 | 17-Sep-( |
| 25 | 17SEP04 25 | | | 1039631 | | 0.009 | 17-Sep-( |
| 26 | 17SEP04 26 | | | 1041559 | | 0.009 | 17-Sep-( |
| 27 | 17SEP04 27 | | | 1037824 | | 0.010 | 17-Sep-( |
| 28 | 17SEP04 28 | | | 1037433 | | 0.010 | 17-Sep-( |
| 29 | 17SEP04 29 | | | 1039007 | | 0.008 | 17-Sep-( |

Sample List: C:\MASSLYNX\AUG2002.PRO\SampleDB\stability 17SEP04A
Last modified: Fri Sep 17 11:24:43 2004
Method: C:\MASSLYNX\AUG2002.PRO\MethDB\Tune QUANT
Last modified: Wed Nov 13 14:31:12 2002
Job Code:

Printed: Fri Sep 17 12:08:48 2004

Compound 6: 140Ce

| # | File name | Sample ID | PPB | CPS | IS CPS | %StdDev | Aq Dat |
|---|---|---|---|---|---|---|---|
| 1 | 17SEP04 01 | | | 1465901 | | 0.007 | 17-Sep-( |
| 2 | 17SEP04 02 | | | 1464471 | | 0.007 | 17-Sep-( |
| 3 | 17SEP04 03 | | | 1456023 | | 0.008 | 17-Sep-( |
| 4 | 17SEP04 04 | | | 1449321 | | 0.008 | 17-Sep-( |
| 5 | 17SEP04 05 | | | 1439337 | | 0.006 | 17-Sep-( |
| 6 | 17SEP04 06 | | | 1437109 | | 0.008 | 17-Sep-( |
| 7 | 17SEP04 07 | | | 1434172 | | 0.008 | 17-Sep-( |
| 8 | 17SEP04 08 | | | 1431703 | | 0.006 | 17-Sep-( |
| 9 | 17SEP04 09 | | | 1413858 | | 0.006 | 17-Sep-( |
| 10 | 17SEP04 10 | | | 1387339 | | 0.007 | 17-Sep-( |
| 11 | 17SEP04 11 | | | 1340130 | | 0.008 | 17-Sep-( |
| 12 | 17SEP04 12 | | | 1322496 | | 0.006 | 17-Sep-( |
| 13 | 17SEP04 13 | | | 1319785 | | 0.009 | 17-Sep-( |
| 14 | 17SEP04 14 | | | 1312798 | | 0.008 | 17-Sep-( |
| 15 | 17SEP04 15 | | | 1305600 | | 0.009 | 17-Sep-( |
| 16 | 17SEP04 16 | | | 1312166 | | 0.008 | 17-Sep-( |
| 17 | 17SEP04 17 | | | 1322752 | | 0.008 | 17-Sep-( |
| 18 | 17SEP04 18 | | | 1328414 | | 0.008 | 17-Sep-( |
| 19 | 17SEP04 19 | | | 1343488 | | 0.006 | 17-Sep-( |
| 20 | 17SEP04 20 | | | 1341937 | | 0.007 | 17-Sep-( |
| 21 | 17SEP04 21 | | | 1340040 | | 0.008 | 17-Sep-( |
| 22 | 17SEP04 22 | | | 1346003 | | 0.007 | 17-Sep-( |
| 23 | 17SEP04 23 | | | 1342313 | | 0.008 | 17-Sep-( |
| 24 | 17SEP04 24 | | | 1340491 | | 0.008 | 17-Sep-( |
| 25 | 17SEP04 25 | | | 1340085 | | 0.008 | 17-Sep-( |
| 26 | 17SEP04 26 | | | 1343051 | | 0.008 | 17-Sep-( |
| 27 | 17SEP04 27 | | | 1339844 | | 0.008 | 17-Sep-( |
| 28 | 17SEP04 28 | | | 1336561 | | 0.009 | 17-Sep-( |
| 29 | 17SEP04 29 | | | 1339538 | | 0.007 | 17-Sep-( |

Sample List: C:\MASSLYNX\AUG2002.PRO\SampleDB\stability 17SEP04A
Last modified: Fri Sep 17 11:24:43 2004
Method: C:\MASSLYNX\AUG2002.PRO\MethDB\Tune QUANT
Last modified: Wed Nov 13 14:31:12 2002
Job Code:

Printed: Fri Sep 17 12:08:48 2004

Compound 7: 140CeO

| # | File name | Sample ID | PPB | CPS | IS CPS | %StdDev | Aq Dat |
|---|---|---|---|---|---|---|---|
| 1 | 17SEP04 01 | | | 44058 | | 0.066 | 17-Sep-( |
| 2 | 17SEP04 02 | | | 46088 | | 0.069 | 17-Sep-( |
| 3 | 17SEP04 03 | | | 45388 | | 0.070 | 17-Sep-( |
| 4 | 17SEP04 04 | | | 44814 | | 0.070 | 17-Sep-( |
| 5 | 17SEP04 05 | | | 44178 | | 0.064 | 17-Sep-( |
| 6 | 17SEP04 06 | | | 44228 | | 0.077 | 17-Sep-( |
| 7 | 17SEP04 07 | | | 44445 | | 0.070 | 17-Sep-( |
| 8 | 17SEP04 08 | | | 44401 | | 0.079 | 17-Sep-( |
| 9 | 17SEP04 09 | | | 43439 | | 0.073 | 17-Sep-( |
| 10 | 17SEP04 10 | | | 42538 | | 0.072 | 17-Sep-( |
| 11 | 17SEP04 11 | | | 40397 | | 0.080 | 17-Sep-( |
| 12 | 17SEP04 12 | | | 39792 | | 0.067 | 17-Sep-( |
| 13 | 17SEP04 13 | | | 39513 | | 0.085 | 17-Sep-( |
| 14 | 17SEP04 14 | | | 38935 | | 0.089 | 17-Sep-( |
| 15 | 17SEP04 15 | | | 38852 | | 0.082 | 17-Sep-( |
| 16 | 17SEP04 16 | | | 38462 | | 0.083 | 17-Sep-( |
| 17 | 17SEP04 17 | | | 38772 | | 0.074 | 17-Sep-( |
| 18 | 17SEP04 18 | | | 39098 | | 0.082 | 17-Sep-( |
| 19 | 17SEP04 19 | | | 39991 | | 0.078 | 17-Sep-( |
| 20 | 17SEP04 20 | | | 39853 | | 0.071 | 17-Sep-( |
| 21 | 17SEP04 21 | | | 39832 | | 0.080 | 17-Sep-( |
| 22 | 17SEP04 22 | | | 40233 | | 0.081 | 17-Sep-( |
| 23 | 17SEP04 23 | | | 40251 | | 0.079 | 17-Sep-( |
| 24 | 17SEP04 24 | | | 40336 | | 0.080 | 17-Sep-( |
| 25 | 17SEP04 25 | | | 40244 | | 0.083 | 17-Sep-( |
| 26 | 17SEP04 26 | | | 40686 | | 0.079 | 17-Sep-( |
| 27 | 17SEP04 27 | | | 40354 | | 0.077 | 17-Sep-( |
| 28 | 17SEP04 28 | | | 40051 | | 0.089 | 17-Sep-( |
| 29 | 17SEP04 29 | | | 40435 | | 0.075 | 17-Sep-( |

Quantify Compound Summary Report 
17SEP04

Sample List: C:\MASSLYNX\AUG2002.PRO\SampleDB\stability 17SEP04A
Last modified: Fri Sep 17 11:24:43 2004
Method: C:\MASSLYNX\AUG2002.PRO\MethDB\Tune QUANT
Last modified: Wed Nov 13 14:31:12 2002
Job Code:

Printed: Fri Sep 17 12:08:48 2004

Compound 11: Lead

| # | File name | Sample ID | PPB | CPS | IS CPS | %StdDev | Aq Dat |
|---|---|---|---|---|---|---|---|
| 1 | 17SEP04 01 | | | 1020144 | | 0.000 | 17-Sep-( |
| 2 | 17SEP04 02 | | | 1028670 | | 0.000 | 17-Sep-( |
| 3 | 17SEP04 03 | | | 1035562 | | 0.000 | 17-Sep-( |
| 4 | 17SEP04 04 | | | 1032488 | | 0.000 | 17-Sep-( |
| 5 | 17SEP04 05 | | | 1030472 | | 0.000 | 17-Sep-( |
| 6 | 17SEP04 06 | | | 1030590 | | 0.000 | 17-Sep-( |
| 7 | 17SEP04 07 | | | 1033359 | | 0.000 | 17-Sep-( |
| 8 | 17SEP04 08 | | | 1031655 | | 0.000 | 17-Sep-( |
| 9 | 17SEP04 09 | | | 1019533 | | 0.000 | 17-Sep-( |
| 10 | 17SEP04 10 | | | 997803 | | 0.000 | 17-Sep-( |
| 11 | 17SEP04 11 | | | 967170 | | 0.000 | 17-Sep-( |
| 12 | 17SEP04 12 | | | 959982 | | 0.000 | 17-Sep-( |
| 13 | 17SEP04 13 | | | 955143 | | 0.000 | 17-Sep-( |
| 14 | 17SEP04 14 | | | 950359 | | 0.000 | 17-Sep-( |
| 15 | 17SEP04 15 | | | 953918 | | 0.000 | 17-Sep-( |
| 16 | 17SEP04 16 | | | 958545 | | 0.000 | 17-Sep-( |
| 17 | 17SEP04 17 | | | 969343 | | 0.000 | 17-Sep-( |
| 18 | 17SEP04 18 | | | 982340 | | 0.000 | 17-Sep-( |
| 19 | 17SEP04 19 | | | 991894 | | 0.000 | 17-Sep-( |
| 20 | 17SEP04 20 | | | 993730 | | 0.000 | 17-Sep-( |
| 21 | 17SEP04 21 | | | 991489 | | 0.000 | 17-Sep-( |
| 22 | 17SEP04 22 | | | 994703 | | 0.000 | 17-Sep-( |
| 23 | 17SEP04 23 | | | 992801 | | 0.000 | 17-Sep-( |
| 24 | 17SEP04 24 | | | 996151 | | 0.000 | 17-Sep-( |
| 25 | 17SEP04 25 | | | 996074 | | 0.000 | 17-Sep-( |
| 26 | 17SEP04 26 | | | 994856 | | 0.000 | 17-Sep-( |
| 27 | 17SEP04 27 | | | 1002060 | | 0.000 | 17-Sep-( |
| 28 | 17SEP04 28 | | | 995150 | | 0.000 | 17-Sep-( |
| 29 | 17SEP04 29 | | | 998417 | | 0.000 | 17-Sep-( |

Sample List: C:\MASSLYNX\AUG2002.PRO\SampleDB\stability 17SEP04A
Last modified: Fri Sep 17 11:24:43 2004
Method: C:\MASSLYNX\AUG2002.PRO\MethDB\Tune QUANT
Last modified: Wed Nov 13 14:31:12 2002
Job Code:

Printed: Fri Sep 17 12:08:48 2004

Compound 12: 209Bi

| # | File name | Sample ID | PPB | CPS | IS CPS | %StdDev | Aq Dat |
|---|---|---|---|---|---|---|---|
| 1 | 17SEP04 01 | | | 911691 | | 0.012 | 17-Sep-( |
| 2 | 17SEP04 02 | | | 918227 | | 0.010 | 17-Sep-( |
| 3 | 17SEP04 03 | | | 920697 | | 0.011 | 17-Sep-( |
| 4 | 17SEP04 04 | | | 926404 | | 0.010 | 17-Sep-( |
| 5 | 17SEP04 05 | | | 921028 | | 0.010 | 17-Sep-( |
| 6 | 17SEP04 06 | | | 922654 | | 0.011 | 17-Sep-( |
| 7 | 17SEP04 07 | | | 923061 | | 0.011 | 17-Sep-( |
| 8 | 17SEP04 08 | | | 920953 | | 0.010 | 17-Sep-( |
| 9 | 17SEP04 09 | | | 911631 | | 0.009 | 17-Sep-( |
| 10 | 17SEP04 10 | | | 893892 | | 0.011 | 17-Sep-( |
| 11 | 17SEP04 11 | | | 863368 | | 0.010 | 17-Sep-( |
| 12 | 17SEP04 12 | | | 863277 | | 0.009 | 17-Sep-( |
| 13 | 17SEP04 13 | | | 854965 | | 0.013 | 17-Sep-( |
| 14 | 17SEP04 14 | | | 852706 | | 0.010 | 17-Sep-( |
| 15 | 17SEP04 15 | | | 851968 | | 0.015 | 17-Sep-( |
| 16 | 17SEP04 16 | | | 861561 | | 0.011 | 17-Sep-( |
| 17 | 17SEP04 17 | | | 868623 | | 0.012 | 17-Sep-( |
| 18 | 17SEP04 18 | | | 877990 | | 0.011 | 17-Sep-( |
| 19 | 17SEP04 19 | | | 886935 | | 0.009 | 17-Sep-( |
| 20 | 17SEP04 20 | | | 887567 | | 0.010 | 17-Sep-( |
| 21 | 17SEP04 21 | | | 886664 | | 0.012 | 17-Sep-( |
| 22 | 17SEP04 22 | | | 887688 | | 0.010 | 17-Sep-( |
| 23 | 17SEP04 23 | | | 886859 | | 0.010 | 17-Sep-( |
| 24 | 17SEP04 24 | | | 893500 | | 0.011 | 17-Sep-( |
| 25 | 17SEP04 25 | | | 889615 | | 0.010 | 17-Sep-( |
| 26 | 17SEP04 26 | | | 888395 | | 0.011 | 17-Sep-( |
| 27 | 17SEP04 27 | | | 896045 | | 0.011 | 17-Sep-( |
| 28 | 17SEP04 28 | | | 890534 | | 0.010 | 17-Sep-( |
| 29 | 17SEP04 29 | | | 893367 | | 0.009 | 17-Sep-( |

Sample List: C:\MASSLYNX\AUG2002.PRO\SampleDB\stability 17SEP04A
Last modified: Fri Sep 17 11:24:43 2004
Method: C:\MASSLYNX\AUG2002.PRO\MethDB\Tune QUANT
Last modified: Wed Nov 13 14:31:12 2002
Job Code:

Printed: Fri Sep 17 12:08:48 2004

Compound 13: 238U

| # | File name | Sample ID | PPB | CPS | IS CPS | %StdDev | Aq Dat |
|---|---|---|---|---|---|---|---|
| 1 | 17SEP04 01 | | | 1410063 | | 0.009 | 17-Sep-( |
| 2 | 17SEP04 02 | | | 1427727 | | 0.008 | 17-Sep-( |
| 3 | 17SEP04 03 | | | 1420198 | | 0.008 | 17-Sep-( |
| 4 | 17SEP04 04 | | | 1429609 | | 0.009 | 17-Sep-( |
| 5 | 17SEP04 05 | | | 1431341 | | 0.008 | 17-Sep-( |
| 6 | 17SEP04 06 | | | 1425589 | | 0.007 | 17-Sep-( |
| 7 | 17SEP04 07 | | | 1432305 | | 0.009 | 17-Sep-( |
| 8 | 17SEP04 08 | | | 1437289 | | 0.008 | 17-Sep-( |
| 9 | 17SEP04 09 | | | 1424384 | | 0.008 | 17-Sep-( |
| 10 | 17SEP04 10 | | | 1387098 | | 0.008 | 17-Sep-( |
| 11 | 17SEP04 11 | | | 1342193 | | 0.010 | 17-Sep-( |
| 12 | 17SEP04 12 | | | 1327601 | | 0.008 | 17-Sep-( |
| 13 | 17SEP04 13 | | | 1325809 | | 0.009 | 17-Sep-( |
| 14 | 17SEP04 14 | | | 1322421 | | 0.010 | 17-Sep-( |
| 15 | 17SEP04 15 | | | 1326577 | | 0.010 | 17-Sep-( |
| 16 | 17SEP04 16 | | | 1324981 | | 0.010 | 17-Sep-( |
| 17 | 17SEP04 17 | | | 1352704 | | 0.009 | 17-Sep-( |
| 18 | 17SEP04 18 | | | 1358652 | | 0.010 | 17-Sep-( |
| 19 | 17SEP04 19 | | | 1372085 | | 0.008 | 17-Sep-( |
| 20 | 17SEP04 20 | | | 1373771 | | 0.008 | 17-Sep-( |
| 21 | 17SEP04 21 | | | 1370323 | | 0.008 | 17-Sep-( |
| 22 | 17SEP04 22 | | | 1382325 | | 0.008 | 17-Sep-( |
| 23 | 17SEP04 23 | | | 1386180 | | 0.009 | 17-Sep-( |
| 24 | 17SEP04 24 | | | 1382521 | | 0.008 | 17-Sep-( |
| 25 | 17SEP04 25 | | | 1384267 | | 0.009 | 17-Sep-( |
| 26 | 17SEP04 26 | | | 1388755 | | 0.008 | 17-Sep-( |
| 27 | 17SEP04 27 | | | 1392580 | | 0.008 | 17-Sep-( |
| 28 | 17SEP04 28 | | | 1389342 | | 0.008 | 17-Sep-( |
| 29 | 17SEP04 29 | | | 1384290 | | 0.008 | 17-Sep-( |

Sample List: C:\MASSLYNX\AUG2002.PRO\SampleDB\stability 17SEP04A
Last modified: Fri Sep 17 11:24:43 2004
Method: C:\MASSLYNX\AUG2002.PRO\MethDB\Tune QUANT
Last modified: Wed Nov 13 14:31:12 2002
Job Code:

Printed: Fri Sep 17 12:08:48 2004

Compound 14: 220BKGD

| # | File name | Sample ID | PPB | CPS | IS CPS | %StdDev | Aq Dat |
|---|---|---|---|---|---|---|---|
| 1 | 17SEP04 01 | | | 1 | | 160.136 | 17-Sep-( |
| 2 | 17SEP04 02 | | | | | | |
| 3 | 17SEP04 03 | | | 1 | | 127.139 | 17-Sep-( |
| 4 | 17SEP04 04 | | | 1 | | 126.942 | 17-Sep-( |
| 5 | 17SEP04 05 | | | | | | |
| 6 | 17SEP04 06 | | | 1 | | 137.852 | 17-Sep-( |
| 7 | 17SEP04 07 | | | 1 | | 126.967 | 17-Sep-( |
| 8 | 17SEP04 08 | | | 1 | | 126.977 | 17-Sep-( |
| 9 | 17SEP04 09 | | | 1 | | 145.711 | 17-Sep-( |
| 10 | 17SEP04 10 | | | 1 | | 126.899 | 17-Sep-( |
| 11 | 17SEP04 11 | | | 1 | | 126.752 | 17-Sep-( |
| 12 | 17SEP04 12 | | | 1 | | 108.407 | 17-Sep-( |
| 13 | 17SEP04 13 | | | 1 | | 138.142 | 17-Sep-( |
| 14 | 17SEP04 14 | | | 1 | | 160.205 | 17-Sep-( |
| 15 | 17SEP04 15 | | | 1 | | 150.672 | 17-Sep-( |
| 16 | 17SEP04 16 | | | 1 | | 127.096 | 17-Sep-( |
| 17 | 17SEP04 17 | | | 1 | | 145.882 | 17-Sep-( |
| 18 | 17SEP04 18 | | | 1 | | 108.417 | 17-Sep-( |
| 19 | 17SEP04 19 | | | 1 | | 137.828 | 17-Sep-( |
| 20 | 17SEP04 20 | | | 1 | | 138.135 | 17-Sep-( |
| 21 | 17SEP04 21 | | | 1 | | 126.721 | 17-Sep-( |
| 22 | 17SEP04 22 | | | 1 | | 108.600 | 17-Sep-( |
| 23 | 17SEP04 23 | | | 1 | | 108.437 | 17-Sep-( |
| 24 | 17SEP04 24 | | | 1 | | 108.403 | 17-Sep-( |
| 25 | 17SEP04 25 | | | 1 | | 108.527 | 17-Sep-( |
| 26 | 17SEP04 26 | | | | | | |
| 27 | 17SEP04 27 | | | 1 | | 108.644 | 17-Sep-( |
| 28 | 17SEP04 28 | | | 1 | | 108.444 | 17-Sep-( |
| 29 | 17SEP04 29 | | | 1 | | 121.255 | 17-Sep-( |

Quantify Compound Summary Report
17SEP04A

Sample List: C:\MASSLYNX\AUG2002.PRO\SampleDB\17SEP04A
Last modified: Fri Sep 17 16:01:57 2004
Method: C:\MASSLYNX\AUG2002.PRO\MethDB\ELEVEN+IS
Last modified: Mon Sep 20 09:33:01 2004
Job Code:

Printed: Mon Sep 20 09:33:50 2004

Compound 12: 238U

| # | File name | Sample ID | PPB | CPS | IS CPS | %StdDev | Aq Date | AqTime | IS# |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 17SEP04A 01 | RINSE | 0.0023977 | 22 | 669163 | 14.759 | 17-Sep-04 | 13:03:11 | 11 |
| 2 | 17SEP04A 02 | RINSE | 0.0024051 | 23 | 675605 | 12.474 | 17-Sep-04 | 13:05:58 | 11 |
| 3 | 17SEP04A 03 | RINSE | 0.0023503 | 17 | 669483 | 19.575 | 17-Sep-04 | 13:09:42 | 11 |
| 4 | 17SEP04A 04 | RINSE | 0.0024128 | 23 | 652544 | 11.662 | 17-Sep-04 | 13:13:26 | 11 |
| 5 | 17SEP04A 05 | 0 STD | 0.0023810 | 20 | 661483 | 14.328 | 17-Sep-04 | 13:17:10 | 11 |
| 6 | 17SEP04A 06 | RL STD | 0.0076324 | 578 | 672811 | 0.880 | 17-Sep-04 | 13:20:55 | 11 |
| 7 | 17SEP04A 07 | LOW STD | 0.99388 | 107629 | 686933 | 0.032 | 17-Sep-04 | 13:24:39 | 11 |
| 8 | 17SEP04A 08 | MID STD | 2.0098 | 219952 | 692715 | 0.021 | 17-Sep-04 | 13:28:23 | 11 |
| 9 | 17SEP04A 09 | HIGH STD | 9.9987 | 1157440 | 726123 | 0.008 | 17-Sep-04 | 13:32:09 | 11 |
| 10 | 17SEP04A 10 | HIGH STD READBACK | 10.020 | 1141504 | 714581 | 0.008 | 17-Sep-04 | 13:35:54 | 11 |
| 11 | 17SEP04A 11 | ICV | 2.5278 | 271403 | 679083 | 0.022 | 17-Sep-04 | 13:39:39 | 11 |
| 12 | 17SEP04A 12 | ICB | 0.0036160 | 149 | 661739 | 5.668 | 17-Sep-04 | 13:48:25 | 11 |
| 13 | 17SEP04A 13 | CRI | 0.0081620 | 635 | 673621 | 1.125 | 17-Sep-04 | 13:54:10 | 11 |
| 14 | 17SEP04A 14 | ICSA | 0.0028692 | 78 | 727040 | 6.832 | 17-Sep-04 | 13:57:56 | 11 |
| 15 | 17SEP04A 15 | ICSAB | 2.2033 | 246528 | 708011 | 0.018 | 17-Sep-04 | 14:01:42 | 11 |
| 16 | 17SEP04A 16 | CCV | 2.0072 | 209488 | 660629 | 0.034 | 17-Sep-04 | 14:05:29 | 11 |
| 17 | 17SEP04A 17 | CCB | 0.0038754 | 170 | 638848 | 6.034 | 17-Sep-04 | 14:09:17 | 11 |
| 18 | 17SEP04A 18 | IP040916-2MB 10X | 0.0027709 | 58 | 632043 | 11.705 | 17-Sep-04 | 14:13:05 | 11 |
| 19 | 17SEP04A 19 | IP040916-2LCS 10X | 1.9340 | 223835 | 732672 | 0.024 | 17-Sep-04 | 14:16:51 | 11 |
| 20 | 17SEP04A 20 | 0405097-6 10X | 3.5706 | 432224 | 764629 | 0.027 | 17-Sep-04 | 14:20:36 | 11 |
| 21 | 17SEP04A 21 | 0405097-6D 10X | 3.4489 | 422395 | 773717 | 0.019 | 17-Sep-04 | 14:24:21 | 11 |
| 22 | 17SEP04A 22 | 0405097-6L 50X | 0.74875 | 83236 | 705856 | 0.040 | 17-Sep-04 | 14:28:06 | 11 |
| 23 | 17SEP04A 23 | 0405097-6MS 10X | 5.2131 | 634112 | 766891 | 0.011 | 17-Sep-04 | 14:31:52 | 11 |
| 24 | 17SEP04A 24 | 0405097-6MSD 10X | 4.9845 | 587755 | 743616 | 0.016 | 17-Sep-04 | 14:35:39 | 11 |
| 25 | 17SEP04A 25 | CCV | 2.0289 | 211413 | 659541 | 0.024 | 17-Sep-04 | 14:39:25 | 11 |
| 26 | 17SEP04A 26 | CCB | 0.0041396 | 198 | 643285 | 4.061 | 17-Sep-04 | 14:43:12 | 11 |
| 27 | 17SEP04A 27 | F040915-1MB 10X Tl only | 0.0033529 | 119 | 648043 | 8.395 | 17-Sep-04 | 14:47:00 | 11 |

Quantify Compound Summary Report
17SEP04A

Sample List: C:\MASSLYNX\AUG2002.PRO\SampleDB\17SEP04A
Last modified: Fri Sep 17 16:01:57 2004
Method: C:\MASSLYNX\AUG2002.PRO\MethDB\ELEVEN+IS
Last modified: Mon Sep 20 09:33:01 2004
Job Code:

Printed: Mon Sep 20 09:33:50 2004

Compound 12: 238U

| # | File name | Sample ID | PPB | CPS | IS CPS | %StdDev | Aq Date | AqTime | IS# |
|---|---|---|---|---|---|---|---|---|---|
| 28 | 17SEP04A 28 | 0409105-1 10X T only | 0.0075966 | 591 | 692501 | 1.307 | 17-Sep-04 | 14:50:47 | 11 |
| 29 | 17SEP04A 29 | 0409105-2 10X | 6.2937 | 778219 | 778667 | 0.009 | 17-Sep-04 | 14:54:34 | 11 |
| 30 | 17SEP04A 30 | 0409105-2L 50X | 1.1989 | 150821 | 797525 | 0.027 | 17-Sep-04 | 14:58:22 | 11 |
| 31 | 17SEP04A 31 | 0409105-2MS 10X | 8.3248 | 1033941 | 780437 | 0.007 | 17-Sep-04 | 15:02:10 | 11 |
| 32 | 17SEP04A 32 | 0409105-2MSD 10X | 8.3786 | 1037248 | 777856 | 0.009 | 17-Sep-04 | 15:05:58 | 11 |
| 33 | 17SEP04A 33 | CCV | 2.0534 | 226448 | 697984 | 0.029 | 17-Sep-04 | 15:09:45 | 11 |
| 34 | 17SEP04A 34 | CCB | 0.0078311 | 604 | 678315 | 4.023 | 17-Sep-04 | 15:13:32 | 11 |
| 35 | 17SEP04A 35 | 0408177-4 100X | 0.054658 | 5399 | 651925 | 0.278 | 17-Sep-04 | 15:22:10 | 11 |
| 36 | 17SEP04A 36 | 0408177-4D 100X | 0.054481 | 5378 | 651584 | 0.266 | 17-Sep-04 | 15:25:54 | 11 |
| 37 | 17SEP04A 37 | 0408177-4D2 100X | 0.054918 | 5400 | 648832 | 0.293 | 17-Sep-04 | 15:29:39 | 11 |
| 38 | 17SEP04A 38 | 0408177-4 10X USE | 0.87613 | 89233 | 646336 | 0.034 | 17-Sep-04 | 15:33:24 | 11 |
| 39 | 17SEP04A 39 | 0408177-4D 10X | 0.88014 | 88989 | 641621 | 0.037 | 17-Sep-04 | 15:37:07 | 11 |
| 40 | 17SEP04A 40 | 0408177-4D2 10X | 0.87447 | 87499 | 634987 | 0.036 | 17-Sep-04 | 15:40:59 | 11 |
| 41 | 17SEP04A 41 | 0405097-6A 10X | 5.4737 | 615019 | 708181 | 0.015 | 17-Sep-04 | 15:44:45 | 11 |
| 42 | 17SEP04A 42 | ICSA_MO Not needed | 0.0052153 | 300 | 628160 | 3.563 | 17-Sep-04 | 15:48:31 | 11 |
| 43 | 17SEP04A 43 | ICSAB_MO | 2.3040 | 231115 | 634645 | 0.034 | 17-Sep-04 | 15:52:17 | 11 |
| 44 | 17SEP04A 44 | CCV | 2.0353 | 203765 | 633664 | 0.024 | 17-Sep-04 | 16:02:13 | 11 |
| 45 | 17SEP04A 45 | CCB | 0.0040298 | 178 | 612800 | 4.692 | 17-Sep-04 | 16:05:00 | 11 |
| 46 | 17SEP04A 46 | 0409067-1 50X | 0.11723 | 12525 | 689728 | 0.139 | 17-Sep-04 | 16:08:46 | 11 |
| 47 | 17SEP04A 47 | 0409067-2 50X | 0.10144 | 11369 | 725653 | 0.170 | 17-Sep-04 | 16:12:33 | 11 |
| 48 | 17SEP04A 48 | 0409067-3 50X | 1.0857 | 129476 | 756288 | 0.023 | 17-Sep-04 | 16:16:20 | 11 |
| 49 | 17SEP04A 49 | 0409067-3L 250X | 0.18466 | 22211 | 771093 | 0.081 | 17-Sep-04 | 16:20:08 | 11 |
| 50 | 17SEP04A 50 | 0409067-3MS 50X | 3.2883 | 393771 | 756651 | 0.014 | 17-Sep-04 | 16:23:55 | 11 |
| 51 | 17SEP04A 51 | 0409067-3MSD 50X | 3.2399 | 391595 | 763776 | 0.015 | 17-Sep-04 | 16:27:40 | 11 |
| 52 | 17SEP04A 52 | 0409067-4 50X | 0.18905 | 22628 | 767083 | 0.211 | 17-Sep-04 | 16:31:25 | 11 |
| 53 | 17SEP04A 53 | 0409067-5 50X | 0.17017 | 20455 | 771371 | 0.100 | 17-Sep-04 | 16:35:11 | 11 |
| 54 | 17SEP04A 54 | CCV | 2.0130 | 225115 | 707840 | 0.021 | 17-Sep-04 | 16:38:57 | 11 |

Quantify Compound Summary Report
17SEP04A

Sample List: C:\MASSLYNX\AUG2002.PRO\SampleDB\17SEP04A
Last modified: Fri Sep 17 16:01:57 2004
Method: C:\MASSLYNX\AUG2002.PRO\MethDB\ELEVEN+IS
Last modified: Mon Sep 20 09:33:01 2004
Job Code:

Printed: Mon Sep 20 09:33:50 2004

Compound 12: 238U

| # | File name | Sample ID | PPB | CPS | IS CPS | %StdDev | Aq Date | AqTime | IS# |
|---|---|---|---|---|---|---|---|---|---|
| 55 | 17SEP04A 55 | CCB | 0.0035305 | 145 | 685035 | 5.720 | 17-Sep-04 | 16:42:43 | 11 |
| 56 | 17SEP04A 56 | RINSE | | | | | | | |

Quantify Compound Summary Report
17SEP04A

Sample List: C:\MASSLYNX\AUG2002.PRO\SampleDB\17SEP04A
Last modified: Fri Sep 17 16:01:57 2004
Method: C:\MASSLYNX\AUG2002.PRO\MethDB\ELEVEN+IS
Last modified: Mon Sep 20 09:33:01 2004
Job Code:

Printed: Mon Sep 20 09:33:50 2004

Compound 17: 203Tl

| # | File name | Sample ID | PPB | CPS | IS CPS | %StdDev | Aq Date | AqTime | IS# |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 17SEP04A 01 | RINSE | 0 | 42 | 669163 | 9.127 | 17-Sep-04 | 13:03:11 | 11 |
| 2 | 17SEP04A 02 | RINSE | 0 | 42 | 675605 | 9.552 | 17-Sep-04 | 13:05:58 | 11 |
| 3 | 17SEP04A 03 | RINSE | 0 | 53 | 669483 | 8.010 | 17-Sep-04 | 13:09:42 | 11 |
| 4 | 17SEP04A 04 | RINSE | 0 | 55 | 652544 | 6.711 | 17-Sep-04 | 13:13:26 | 11 |
| 5 | 17SEP04A 05 | 0 STD | 0 | 56 | 661483 | 7.097 | 17-Sep-04 | 13:17:10 | 11 |
| 6 | 17SEP04A 06 | RL STD | 0.021752 | 240 | 672811 | 2.185 | 17-Sep-04 | 13:20:55 | 11 |
| 7 | 17SEP04A 07 | LOW STD | 0.053778 | 513 | 686933 | 1.218 | 17-Sep-04 | 13:24:39 | 11 |
| 8 | 17SEP04A 08 | MID STD | 0.094391 | 890 | 692715 | 1.132 | 17-Sep-04 | 13:28:23 | 11 |
| 9 | 17SEP04A 09 | HIGH STD | 0.50039 | 6772 | 726123 | 0.217 | 17-Sep-04 | 13:32:09 | 11 |
| 10 | 17SEP04A 10 | HIGH STD READBACK | 0.51041 | 6850 | 714581 | 0.269 | 17-Sep-04 | 13:35:54 | 11 |
| 11 | 17SEP04A 11 | ICV | 0.11678 | 1088 | 679083 | 0.806 | 17-Sep-04 | 13:39:39 | 11 |
| 12 | 17SEP04A 12 | ICB | 0 | 65 | 661739 | 5.616 | 17-Sep-04 | 13:48:25 | 11 |
| 13 | 17SEP04A 13 | CRI | 0.021208 | 236 | 673621 | 2.850 | 17-Sep-04 | 13:54:10 | 11 |
| 14 | 17SEP04A 14 | ICSA | 0 | 70 | 727040 | 4.648 | 17-Sep-04 | 13:57:56 | 11 |
| 15 | 17SEP04A 15 | ICSAB | 0.089298 | 860 | 708011 | 0.870 | 17-Sep-04 | 14:01:42 | 11 |
| 16 | 17SEP04A 16 | CCV | 0.090574 | 814 | 660629 | 0.852 | 17-Sep-04 | 14:05:29 | 11 |
| 17 | 17SEP04A 17 | CCB | 0.00048030 | 73 | 638848 | 6.563 | 17-Sep-04 | 14:09:17 | 11 |
| 18 | 17SEP04A 18 | IP040916-2MB 10X | 0 | 52 | 632043 | 8.034 | 17-Sep-04 | 14:13:05 | 11 |
| 19 | 17SEP04A 19 | IP040916-2LCS 10X | 0.092382 | 921 | 732672 | 0.971 | 17-Sep-04 | 14:16:51 | 11 |
| 20 | 17SEP04A 20 | 0405097-6 10X | 0.026553 | 316 | 764629 | 1.935 | 17-Sep-04 | 14:20:36 | 11 |
| 21 | 17SEP04A 21 | 0405097-6D 10X | 0.028647 | 339 | 773717 | 2.027 | 17-Sep-04 | 14:24:21 | 11 |
| 22 | 17SEP04A 22 | 0405097-6L 50X | 0.0047180 | 114 | 705856 | 3.604 | 17-Sep-04 | 14:28:06 | 11 |
| 23 | 17SEP04A 23 | 0405097-6MS 10X | 0.11302 | 1187 | 766891 | 0.777 | 17-Sep-04 | 14:31:52 | 11 |
| 24 | 17SEP04A 24 | 0405097-6MSD 10X | 0.12237 | 1252 | 743616 | 0.596 | 17-Sep-04 | 14:35:39 | 11 |
| 25 | 17SEP04A 25 | CCV | 0.10271 | 924 | 659541 | 0.903 | 17-Sep-04 | 14:39:25 | 11 |
| 26 | 17SEP04A 26 | CCB | 0 | 68 | 643285 | 6.435 | 17-Sep-04 | 14:43:12 | 11 |
| 27 | 17SEP04A 27 | F040915-1MB 10X | 0 | 50 | 648043 | 6.973 | 17-Sep-04 | 14:47:00 | 11 |

Only

Quantify Compound Summary Report
17SEP04A

Sample List: C:\MASSLYNX\AUG2002.PRO\SampleDB\17SEP04A
Last modified: Fri Sep 17 16:01:57 2004
Method: C:\MASSLYNX\AUG2002.PRO\MethDB\ELEVEN+IS
Last modified: Mon Sep 20 09:33:01 2004
Job Code:

Printed: Mon Sep 20 09:33:50 2004

Compound 17: 203Tl

| # | File name | Sample ID | PPB | CPS | IS CPS | %StdDev | Aq Date | AqTime | IS# |
|---|---|---|---|---|---|---|---|---|---|
| 28 | 17SEP04A 28 | 0409105-1 10X | 0.45421 | 5656 | 692501 | 0.254 | 17-Sep-04 | 14:50:47 | 11 |
| 29 | 17SEP04A 29 | 0409105-2 10X | 0.023420 | 293 | 778667 | 2.024 | 17-Sep-04 | 14:54:34 | 11 |
| 30 | 17SEP04A 30 | 0409105-2L 50X | 0.00046542 | 91 | 797525 | 5.151 | 17-Sep-04 | 14:58:22 | 11 |
| 31 | 17SEP04A 31 | 0409105-2MS 10X | 0.12767 | 1375 | 780437 | 0.691 | 17-Sep-04 | 15:02:10 | 11 |
| 32 | 17SEP04A 32 | 0409105-2MSD 10X | 0.12816 | 1376 | 777856 | 0.635 | 17-Sep-04 | 15:05:58 | 11 |
| 33 | 17SEP04A 33 | CCV | 0.099869 | 950 | 697984 | 0.868 | 17-Sep-04 | 15:09:45 | 11 |
| 34 | 17SEP04A 34 | CCB | 0 | 57 | 678315 | 7.116 | 17-Sep-04 | 15:13:32 | 11 |
| 35 | 17SEP04A 35 | 0408177-4 100X U only | 0 | 52 | 651925 | 8.177 | 17-Sep-04 | 15:22:10 | 11 |
| 36 | 17SEP04A 36 | 0408177-4D 100X | 0 | 44 | 651584 | 7.557 | 17-Sep-04 | 15:25:54 | 11 |
| 37 | 17SEP04A 37 | 0408177-4D2 100X | 0 | 40 | 648832 | 9.515 | 17-Sep-04 | 15:29:39 | 11 |
| 38 | 17SEP04A 38 | 0408177-4 10X | 0 | 42 | 646336 | 10.056 | 17-Sep-04 | 15:33:24 | 11 |
| 39 | 17SEP04A 39 | 0408177-4D 10X | 0 | 40 | 641621 | 7.973 | 17-Sep-04 | 15:37:07 | 11 |
| 40 | 17SEP04A 40 | 0408177-4D2 10X | 0 | 44 | 634987 | 6.685 | 17-Sep-04 | 15:40:59 | 11 |
| 41 | 17SEP04A 41 | 0405097-6A 10X | 0.11252 | 1091 | 708181 | 0.981 | 17-Sep-04 | 15:44:45 | 11 |
| 42 | 17SEP04A 42 | ICSA_MO | 0.18377 | 1658 | 628160 | 0.584 | 17-Sep-04 | 15:48:31 | 11 |
| 43 | 17SEP04A 43 | ICSAB_MO | 0.24749 | 2379 | 634645 | 0.420 | 17-Sep-04 | 15:52:17 | 11 |
| 44 | 17SEP04A 44 | CCV | 0.094946 | 819 | 633664 | 0.793 | 17-Sep-04 | 16:02:13 | 11 |
| 45 | 17SEP04A 45 | CCB | 0 | 61 | 612800 | 4.613 | 17-Sep-04 | 16:05:00 | 11 |
| 46 | 17SEP04A 46 | 0409067-1 50X | 0.0033711 | 101 | 689728 | 4.788 | 17-Sep-04 | 16:08:46 | 11 |
| 47 | 17SEP04A 47 | 0409067-2 50X | 0.0098230 | 159 | 725653 | 3.760 | 17-Sep-04 | 16:12:33 | 11 |
| 48 | 17SEP04A 48 | 0409067-3 50X | 0.0043468 | 119 | 756288 | 4.193 | 17-Sep-04 | 16:16:20 | 11 |
| 49 | 17SEP04A 49 | 0409067-3L 250X | 0 | 55 | 771093 | 8.073 | 17-Sep-04 | 16:20:08 | 11 |
| 50 | 17SEP04A 50 | 0409067-3MS 50X | 0.11301 | 1171 | 756651 | 0.732 | 17-Sep-04 | 16:23:55 | 11 |
| 51 | 17SEP04A 51 | 0409067-3MSD 50X | 0.10899 | 1138 | 763776 | 0.826 | 17-Sep-04 | 16:27:40 | 11 |
| 52 | 17SEP04A 52 | 0409067-4 50X | 0 | 58 | 767083 | 7.318 | 17-Sep-04 | 16:31:25 | 11 |
| 53 | 17SEP04A 53 | 0409067-5 50X | 0 | 55 | 771371 | 6.719 | 17-Sep-04 | 16:35:11 | 11 |
| 54 | 17SEP04A 54 | CCV | 0.098513 | 950 | 707840 | 0.727 | 17-Sep-04 | 16:38:57 | 11 |

Quantify Compound Summary Report
17SEP04A

Sample List: C:\MASSLYNX\AUG2002.PRO\SampleDB\17SEP04A
Last modified: Fri Sep 17 16:01:57 2004
Method: C:\MASSLYNX\AUG2002.PRO\MethDB\ELEVEN+IS
Last modified: Mon Sep 20 09:33:01 2004
Job Code:

Printed: Mon Sep 20 09:33:50 2004

Compound 17: 203Tl

| # | File name | Sample ID | PPB | CPS | IS CPS | %StdDev | Aq Date | AqTime | IS# |
|---|---|---|---|---|---|---|---|---|---|
| 55 | 17SEP04A 55 | CCB | 0 | 51 | 685035 | 6.799 | 17-Sep-04 | 16:42:43 | 11 |
| 56 | 17SEP04A 56 | RINSE | | | | | | | |

Quantify Compound Summary Report
17SEP04A

Sample List: C:\MASSLYNX\AUG2002.PRO\SampleDB\17SEP04A
Last modified: Fri Sep 17 16:01:57 2004
Method: C:\MASSLYNX\AUG2002.PRO\MethDB\ELEVEN+IS
Last modified: Mon Sep 20 09:33:01 2004
Job Code:

Printed: Mon Sep 20 09:33:50 2004

Compound 11: 209Bi

| # | File name | Sample ID | PPB | CPS | IS CPS | %StdDev | Aq Date | AqTime | IS# |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 17SEP04A 01 | RINSE | 0.97260 | 669163 | | 0.012 | 17-Sep-04 | 13:03:11 | 0 |
| 2 | 17SEP04A 02 | RINSE | 0.98197 | 675605 | | 0.010 | 17-Sep-04 | 13:05:58 | 0 |
| 3 | 17SEP04A 03 | RINSE | 0.97307 | 669483 | | 0.015 | 17-Sep-04 | 13:09:42 | 0 |
| 4 | 17SEP04A 04 | RINSE | 0.94845 | 652544 | | 0.010 | 17-Sep-04 | 13:13:26 | 0 |
| 5 | 17SEP04A 05 | 0 STD | 0.96144 | 661483 | | 0.013 | 17-Sep-04 | 13:17:10 | 0 |
| 6 | 17SEP04A 06 | RL STD | 0.97790 | 672811 | | 0.010 | 17-Sep-04 | 13:20:55 | 0 |
| 7 | 17SEP04A 07 | LOW STD | 0.99843 | 686933 | | 0.013 | 17-Sep-04 | 13:24:39 | 0 |
| 8 | 17SEP04A 08 | MID STD | 1.0068 | 692715 | | 0.012 | 17-Sep-04 | 13:28:23 | 0 |
| 9 | 17SEP04A 09 | HIGH STD | 1.0554 | 726123 | | 0.011 | 17-Sep-04 | 13:32:09 | 0 |
| 10 | 17SEP04A 10 | HIGH STD READBACK | 1.0386 | 714581 | | 0.011 | 17-Sep-04 | 13:35:54 | 0 |
| 11 | 17SEP04A 11 | ICV | 0.98702 | 679083 | | 0.009 | 17-Sep-04 | 13:39:39 | 0 |
| 12 | 17SEP04A 12 | ICB | 0.96181 | 661739 | | 0.013 | 17-Sep-04 | 13:48:25 | 0 |
| 13 | 17SEP04A 13 | CRI | 0.97908 | 673621 | | 0.010 | 17-Sep-04 | 13:54:10 | 0 |
| 14 | 17SEP04A 14 | ICSA | 1.0567 | 727040 | | 0.012 | 17-Sep-04 | 13:57:56 | 0 |
| 15 | 17SEP04A 15 | ICSAB | 1.0291 | 708011 | | 0.011 | 17-Sep-04 | 14:01:42 | 0 |
| 16 | 17SEP04A 16 | CCV | 0.96020 | 660629 | | 0.018 | 17-Sep-04 | 14:05:29 | 0 |
| 17 | 17SEP04A 17 | CCB | 0.92854 | 638848 | | 0.016 | 17-Sep-04 | 14:09:17 | 0 |
| 18 | 17SEP04A 18 | IP040916-2MB 10X | 0.91865 | 632043 | | 0.013 | 17-Sep-04 | 14:13:05 | 0 |
| 19 | 17SEP04A 19 | IP040916-2LCS 10X | 1.0649 | 732672 | | 0.012 | 17-Sep-04 | 14:16:51 | 0 |
| 20 | 17SEP04A 20 | 0405097-6 10X | 1.1114 | 764629 | | 0.011 | 17-Sep-04 | 14:20:36 | 0 |
| 21 | 17SEP04A 21 | 0405097-6D 10X | 1.1246 | 773717 | | 0.014 | 17-Sep-04 | 14:24:21 | 0 |
| 22 | 17SEP04A 22 | 0405097-6L 50X | 1.0259 | 705856 | | 0.009 | 17-Sep-04 | 14:28:06 | 0 |
| 23 | 17SEP04A 23 | 0405097-6MS 10X | 1.1146 | 766891 | | 0.011 | 17-Sep-04 | 14:31:52 | 0 |
| 24 | 17SEP04A 24 | 0405097-6MSD 10X | 1.0808 | 743616 | | 0.021 | 17-Sep-04 | 14:35:39 | 0 |
| 25 | 17SEP04A 25 | CCV | 0.95862 | 659541 | | 0.012 | 17-Sep-04 | 14:39:25 | 0 |
| 26 | 17SEP04A 26 | CCB | 0.93499 | 643285 | | 0.011 | 17-Sep-04 | 14:43:12 | 0 |
| 27 | 17SEP04A 27 | F040915-1MB 10X | 0.94191 | 648043 | | 0.012 | 17-Sep-04 | 14:47:00 | 0 |

Quantify Compound Summary Report
17SEP04A

Sample List: C:\MASSLYNX\AUG2002.PRO\SampleDB\17SEP04A
Last modified: Fri Sep 17 16:01:57 2004
Method: C:\MASSLYNX\AUG2002.PRO\MethDB\ELEVEN+IS
Last modified: Mon Sep 20 09:33:01 2004
Job Code:

Printed: Mon Sep 20 09:33:50 2004

Compound 11: 209Bi

| # | File name | Sample ID | PPB | CPS | IS CPS | %StdDev | Aq Date | AqTime | IS# |
|---|---|---|---|---|---|---|---|---|---|
| 28 | 17SEP04A 28 | 0409105-1 10X | 1.0065 | 692501 | | 0.011 | 17-Sep-04 | 14:50:47 | 0 |
| 29 | 17SEP04A 29 | 0409105-2 10X | 1.1318 | 778667 | | 0.010 | 17-Sep-04 | 14:54:34 | 0 |
| 30 | 17SEP04A 30 | 0409105-2L 50X | 1.1592 | 797525 | | 0.008 | 17-Sep-04 | 14:58:22 | 0 |
| 31 | 17SEP04A 31 | 0409105-2MS 10X | 1.1343 | 780437 | | 0.008 | 17-Sep-04 | 15:02:10 | 0 |
| 32 | 17SEP04A 32 | 0409105-2MSD 10X | 1.1306 | 777856 | | 0.009 | 17-Sep-04 | 15:05:58 | 0 |
| 33 | 17SEP04A 33 | CCV | 1.0145 | 697984 | | 0.020 | 17-Sep-04 | 15:09:45 | 0 |
| 34 | 17SEP04A 34 | CCB | 0.98590 | 678315 | | 0.009 | 17-Sep-04 | 15:13:32 | 0 |
| 35 | 17SEP04A 35 | 0408177-4 100X | 0.94755 | 651925 | | 0.011 | 17-Sep-04 | 15:22:10 | 0 |
| 36 | 17SEP04A 36 | 0408177-4D 100X | 0.94705 | 651584 | | 0.011 | 17-Sep-04 | 15:25:54 | 0 |
| 37 | 17SEP04A 37 | 0408177-4D2 100X | 0.94305 | 648832 | | 0.012 | 17-Sep-04 | 15:29:39 | 0 |
| 38 | 17SEP04A 38 | 0408177-4 10X | 0.93942 | 646336 | | 0.010 | 17-Sep-04 | 15:33:24 | 0 |
| 39 | 17SEP04A 39 | 0408177-4D 10X | 0.93257 | 641621 | | 0.017 | 17-Sep-04 | 15:37:07 | 0 |
| 40 | 17SEP04A 40 | 0408177-4D2 10X | 0.92293 | 634987 | | 0.011 | 17-Sep-04 | 15:40:59 | 0 |
| 41 | 17SEP04A 41 | 0405097-6A 10X | 1.0293 | 708181 | | 0.011 | 17-Sep-04 | 15:44:45 | 0 |
| 42 | 17SEP04A 42 | ICSA_MO | 0.91301 | 628160 | | 0.011 | 17-Sep-04 | 15:48:31 | 0 |
| 43 | 17SEP04A 43 | ICSAB_MO | 0.92243 | 634645 | | 0.030 | 17-Sep-04 | 15:52:17 | 0 |
| 44 | 17SEP04A 44 | CCV | 0.92101 | 633664 | | 0.015 | 17-Sep-04 | 16:02:13 | 0 |
| 45 | 17SEP04A 45 | CCB | 0.89068 | 612800 | | 0.017 | 17-Sep-04 | 16:05:00 | 0 |
| 46 | 17SEP04A 46 | 0409067-1 50X | 1.0025 | 689728 | | 0.010 | 17-Sep-04 | 16:08:46 | 0 |
| 47 | 17SEP04A 47 | 0409067-2 50X | 1.0547 | 725653 | | 0.010 | 17-Sep-04 | 16:12:33 | 0 |
| 48 | 17SEP04A 48 | 0409067-3 50X | 1.0992 | 756288 | | 0.009 | 17-Sep-04 | 16:16:20 | 0 |
| 49 | 17SEP04A 49 | 0409067-3L 250X | 1.1208 | 771093 | | 0.010 | 17-Sep-04 | 16:20:08 | 0 |
| 50 | 17SEP04A 50 | 0409067-3MS 50X | 1.0998 | 756651 | | 0.010 | 17-Sep-04 | 16:23:55 | 0 |
| 51 | 17SEP04A 51 | 0409067-3MSD 50X | 1.1101 | 763776 | | 0.009 | 17-Sep-04 | 16:27:40 | 0 |
| 52 | 17SEP04A 52 | 0409067-4 50X | 1.1149 | 767083 | | 0.009 | 17-Sep-04 | 16:31:25 | 0 |
| 53 | 17SEP04A 53 | 0409067-5 50X | 1.1212 | 771371 | | 0.013 | 17-Sep-04 | 16:35:11 | 0 |
| 54 | 17SEP04A 54 | CCV | 1.0288 | 707840 | | 0.013 | 17-Sep-04 | 16:38:57 | 0 |

Quantify Compound Summary Report
17SEP04A

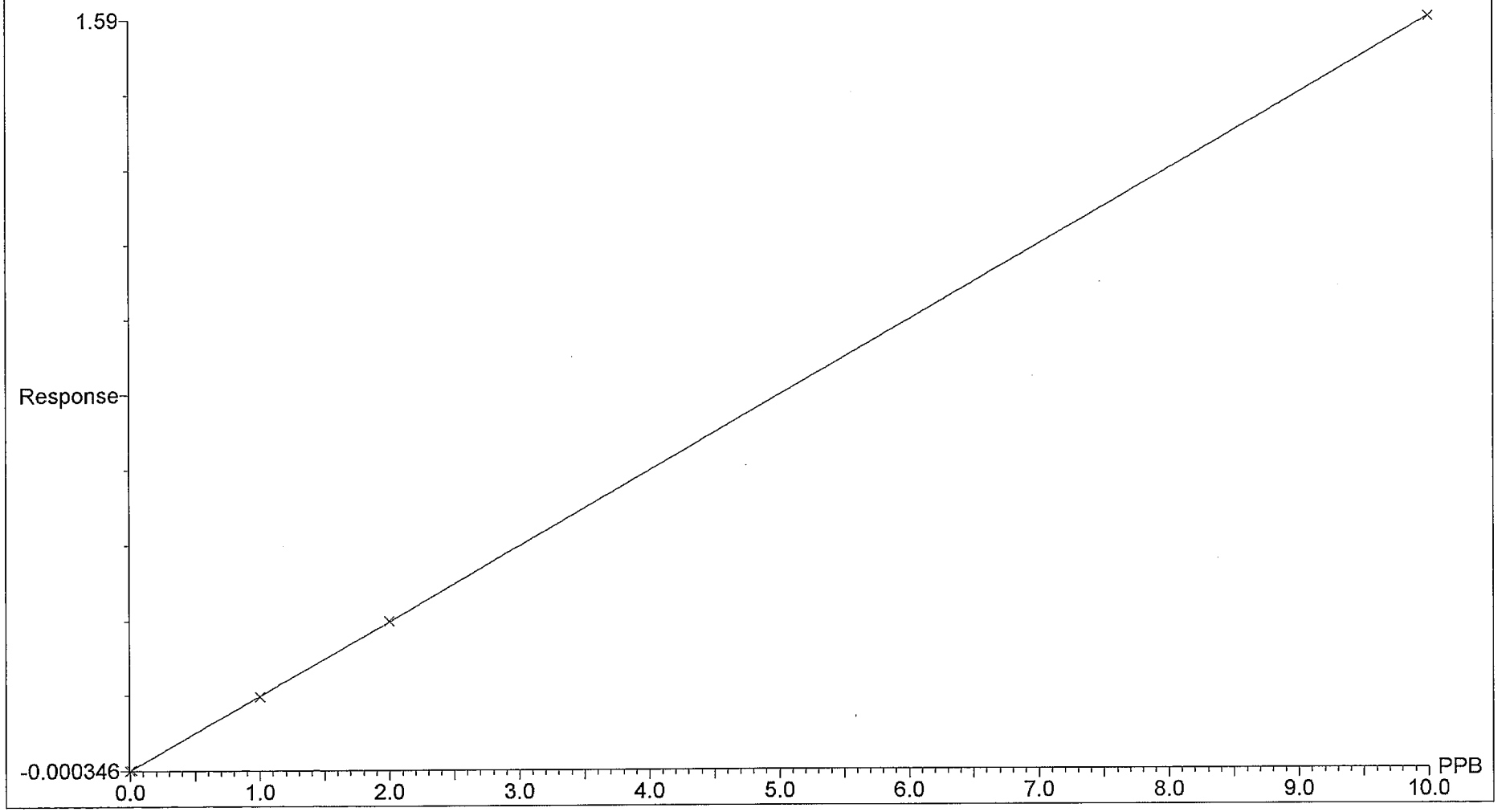
Sample List: C:\MASSLYNX\AUG2002.PRO\SampleDB\17SEP04A
Last modified: Fri Sep 17 16:01:57 2004
Method: C:\MASSLYNX\AUG2002.PRO\MethDB\ELEVEN+IS
Last modified: Mon Sep 20 09:33:01 2004
Job Code:

Printed: Mon Sep 20 09:33:50 2004

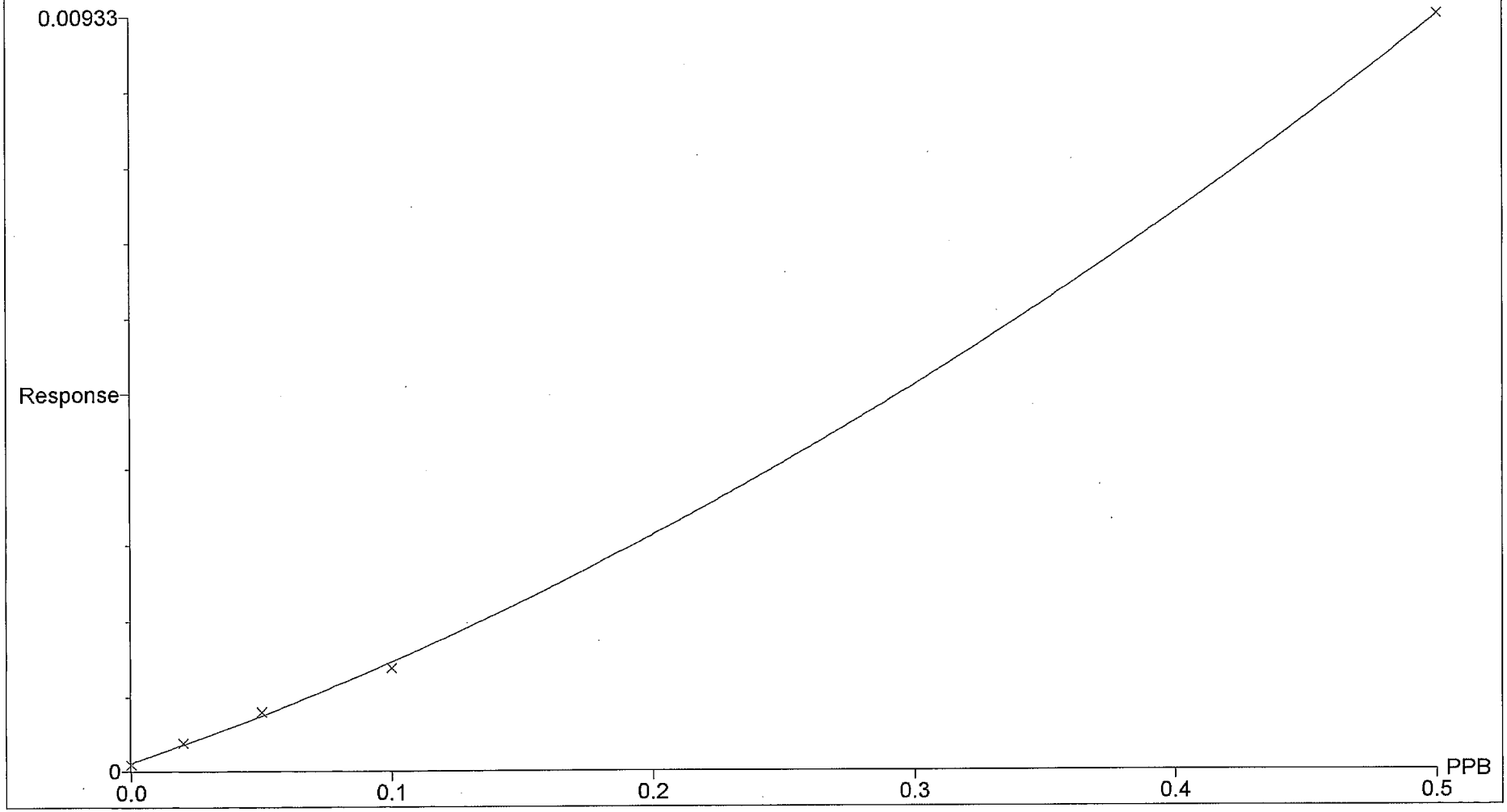
Compound 11: 209Bi

| # | File name | Sample ID | PPB | CPS | IS CPS | %StdDev | Aq Date | AqTime | IS# |
|---|---|---|---|---|---|---|---|---|---|
| 55 | 17SEP04A 55 | CCB | 0.99567 | 685035 | | 0.011 | 17-Sep-04 | 16:42:43 | 0 |
| 56 | 17SEP04A 56 | RINSE | | | | | | | |

Compound 12 name: 238U
Coefficient of Determination: 0.999998
Calibration curve: 0.000162485 * x^2 + 0.157831 * x + -0.000345562
Response type: Internal Std ( Ref 11 ), Area * ( IS Conc. / IS Area )
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Compound 17 name: 203Tl
Coefficient of Determination: 0.999846
Calibration curve: 0.0146873 * x^2 + 0.0110709 * x + 0.000108947
Response type: Internal Std ( Ref 11 ), Area * ( IS Conc. / IS Area )
Curve type: 2nd Order, Origin: Exclude, Weighting: 1/x, Axis trans: None



Miscellaneous

281276

# METALS DIGESTION WORKSHEET

**Paragon Analytics**

Digestion Date 9/16/04 | HCl Lot No. A21033 | Method: 3050 | Beaker Lot No. 3217059 | Initial Prep PM | Final Prep PM

Digestion Batch IP040916-2 | $HNO_3$ Lot No. A16051 | SOP/Rev: 806 rev 10 | Avg. Beaker Wt. (g) 15.66 | Prep Start Time 1525 | Prep End Time 2040

Water Bath Temp 95 °C | Peroxide Lot No. 5240 Y52A03 | Balance(s): #4 | Digestate Wt. (g) 105.11

Pipet(s): M-51 | Reviewed by / date REM 9/17/04

Form 805r15.xls (1/8/04)

| QC Grp | Lab Sample ID | Instrument | Init Vol/Wt (mL/g) | Final Vol. (mL) | Target Wt. (g) | pH | Texture | Before color | Before clarity | After color | After clarity | Comments, including metals list | LIMS QCA |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0409018-1 | TA | 1.01 | 100 | 121.8 | N/A | COARSE | BROWN | N/A | YELLOW | CLEAR | ~~NCAT Zn MOTAL Cu, Fe, K, Mg, Na, Ni, V 5/16 [illegible]~~ | 1 |
| | -2 | | 1.01 | | 121.8 | | | | | | | BUBBLED UPON ADDING ACID | |
| | -3 | | 1.00 | | 121.8 | | | | | | | | |
| | -4 | | 1.01 | | 121.8 | | | BROWN/GREY | | | | | |
| | -5 | | 1.02 | | 121.8 | | | | | | | | |
| | -6 | | 1.01 | | 121.8 | | | | | | | BUBBLED UPON ADDING ACID | |
| | -7 | | 1.01 | | 121.8 | | | BROWN | | | | | |
| | -8 | | 1.00 | | 121.8 | | | | | | | BUBBLED UPON ADDING ACID | |
| | -9 | | 1.03 | | 121.8 | | | BROWN/GREY | | | | | |
| | -10 | | 1.00 | | 121.8 | | | | | | | | |
| | -11 | | 1.00 | | 121.8 | | | BROWN | | | | | |
| | -12 | | 1.00 | | 121.8 | | | BROWN/GREY | | | | | |
| | -13 | | 1.00 | | 121.8 | | | BROWN | | | | | |
| | -14 | | 1.00 | | 121.8 | | | LIGHT BROWN | | | | | |
| | -15 | | 1.00 | | 121.8 | | | BROWN | | | | | |
| | -16 | | 1.01 | | 121.8 | | | | | | | | |
| | -20 | | 1.00 | | 121.8 | | | | | | | | |
| | -21 | | 1.00 | | 121.8 | | | | | | | | |
| 3 | 0405097-6 | TA/MS | 1.00 | | 121.8 | | FINE | GREY | | GREY | CLOUDY | TA-Al, As, Fe, Mn & Pb, MS-U | 2 |
| | | | | | | | 9/16/04 | PM | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| **ICP** | | | | | |
| LCS | IP040916-2LCS | TA/MS | 1.00 | 100 | 121.8 |
| ~~LCS 2~~ | | | | | |
| **ICP MS** | 9/16/04 | | | | |
| LCS | | PM | | | |
| ~~LCS 2~~ | | | | | |
| **PB** | IP040916-2MB | TA/MS | 1.00 | 100 | 121.8 |
| #1 D | 0409018-2D | | 1.00 | | 121.8 |
| S | -2MS | | 1.00 | | 121.8 |
| DS | -2MSD | | 1.00 | | 121.8 |

(**Note:** QC Sample information presented at left.)

Fill out info. below only if additional batch QC samples are needed.

| | TA/MS Lab Sample ID | Init Vol/Wt. (mL/g) | Final Vol. (mL) | Target Wt. (g) |
|---|---|---|---|---|
| #2 D | 0409018-14D | 1.01 | 100 | 121.8 |
| S | -14MS | 1.00 | | 121.8 |
| DS | -14MSD | 1.00 | | 121.8 |
| #3 D | 0405097-6D | 1.00 | | 121.8 |
| S | -6MS | 1.00 | | 121.8 |
| DS | -6MSD | 1.00 | | 121.8 |

**Spiking Information**

| QC | Amount |
|---|---|
| ST040907-4(C) | 0.5mL |
| ST040602-36 | 2.0mL |
| ST040603-2 | 1.0mL |