



engineering and constructing a better tomorrow

May 12, 2014

Mr. Maurice Moore
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 9
270 Michigan Avenue
Buffalo, New York 14203-2999

Subject: 2013 Periodic Review Report
Alltift Landfill Site /Ramco Steel Site
Site Nos. 9-15-054 /9-15-046B

Dear Mr. Moore:

MACTEC Engineering and Consulting, P.C. (Mactec), is submitting this Periodic Review Report (PRR) for the Alltift Landfill Site/Ramco Steel Site (site) on behalf of Honeywell International Inc. (Honeywell). The completed Site Management PRR Notice - Institutional and Engineering Controls Certification Form is provided herein as Attachment A, which includes a summary of proposed deed restrictions. A report titled "2013 Annual Operations, Maintenance, and Monitoring Report, Alltift Landfill Site /Ramco Steel Site" (OM&M Report), is included herein as Attachment B. The remainder of this document follows the outline presented in your March 26, 2014 letter.

I. Introduction

A. Site Summary:

The primary remedial objectives at the Site are to eliminate the potential for direct contact with waste and impacted soils and sediments, and to eliminate the potential for impacted groundwater to discharge to the adjacent wetlands. Remedial construction activities began in November 2003 and were completed in November 2005. The key remedial actions for the site included:

- Consolidation and capping of landfill waste and impacted soils and sediments;
- construction of groundwater collection and relief trenches for groundwater control (see figures included in Appendix A of the attached OM&M report);
- groundwater monitoring; and
- restoration of ponds and wetlands.

The Alltift Landfill Site is located at 579 Tift Street in the southern portion of the City of Buffalo, Erie County, New York. The Ramco Steel Site is adjacent to the southeastern tip of the Alltift Landfill (see figures included in Appendix A of the attached OM&M Report).

The Alltift Landfill Site was a former landfill/waste disposal area that was remediated between November 2003 and November 2005 under an Order of Consent between AlliedSignal (now Honeywell) and the New York State Department of Environmental Conservation (NYSDEC).

The remediation activities included the adjacent Ramco Steel Site (NYSDEC Site No. 9-15-046B). The remediation involved consolidation of the wastes present on the Alltift Landfill and Ramco Steel sites into a capped landfill on the Alltift Landfill Site. A groundwater control system was installed at the downgradient toe of the landfill to collect and pump groundwater that emanates from the landfill to a sewer line owned by the Buffalo Sewer Authority (BSA) in accordance with a Buffalo Pollutant Discharge Elimination System (BPDES) Permit. As part of the remedial construction, man-made wetlands were created on the western and southern ends of the Alltift Landfill Site and the adjacent Ramco Steel Site.

On April 5, 2013, the NYSDEC accepted and approved the Construction Certification Report and Operation, Maintenance, and Monitoring Plan for the Alltift Landfill Site/Ramco Steel Site. The NYSDEC then re-classified the Alltift Landfill Site (NYSDEC Site No. 9-15-054) from Class 2 to Class 4, and de-listed the Ramco Steel Site (NYSDEC Site No. 9-15-046B). Since the Ramco Steel Site has been de-listed, future PRR submittals will only refer to activities conducted for the Alltift Landfill Site.

During 2013, the following routine OM&M activities were completed in accordance with the Operations, Maintenance, and Monitoring Manual, prepared by Parson Engineers, dated March 2006 (referred to hereafter as the OM&M Manual):

- BSA discharge monitoring.
- Groundwater monitoring.
- Quarterly site inspections.
- Routine maintenance activities.

- B. Effectiveness Monitoring: The cap system is intact with suitable vegetative cover, and the wetlands mitigation area appears to be a successfully functioning wetland. Groundwater from the site is flowing into the groundwater capture trench as designed. Analytical results from the BSA monthly discharge sampling were within the BSA permit limits.
- C. Compliance: The OM&M activities conducted in 2013 were performed in accordance with the OM&M Manual, as described in the attached OM&M Report.
- D. Recommendations: Implementation of the activities specified in the OM&M Manual will continue in 2014, as described in the attached OM&M Report and in Section VI E of this letter.

II. Site Overview

- A. Site Location: The site plan is illustrated on the figures included in Appendix A of the attached OM&M Report. The site is located south of Tifft Street, approximately 1,300 feet west of Hopkins Street, and 5,000 feet east of the intersection of Tifft Street and Route 5. It is bounded on the north by Tifft Street; on the west by a railroad right-of-way and tracks; on the south by several ponds and the Ramco Steel Site; and on the east by Skyway Auto Parts, Inc. Prior to remediation, soils and sediments containing contaminant concentrations exceeding relevant NYSDEC standards were identified at the site.

The site remedy included consolidation and capping of landfill waste and impacted soils and sediments; construction of a groundwater collection trench and a groundwater relief trench; implementation of monthly BSA discharge monitoring; implementation of annual groundwater monitoring; and restoration of ponds and wetlands.

Groundwater collected in the trenches is conveyed via a pumping system to a lift station located at the southeastern corner of the site. The lift station then discharges the collected groundwater to the sewer, under a BSA discharge permit. As required by the current BSA discharge permit, as modified by the BSA's letter dated July 24, 2013 (included in Appendix B of the attached OM&M Report), samples of the effluent were collected from the lift station on a semi-annual basis and analyzed for compliance with the parameter limits listed in the permit.

- B. Chronology: Remediation of the site began in November 2003 and was concluded in November 2005. Waste and impacted sediment relocation was completed in September 2004, the construction of the groundwater collection trench was completed in October 2004, and the landfill capping system was completed in June 2005. Planting of wetland and woody vegetation, creating at least 11.2 acres of emergent marsh and open water habitats, was completed in November 2005.

III. Evaluation of Remedy Performance, Effectiveness and Protectiveness

- A. The performance, effectiveness and protectiveness of the remedy is verified by ensuring that the cap system is intact as constructed, that groundwater is being routed to the groundwater collection trench, and that the wetlands area is successfully functioning as designed.
- Ensuring the cap system is intact as constructed: Quarterly site inspections are conducted that include monitoring of landfill vegetation, ground inspections, and visual checks for evidence of erosion or subsidence. The results from the inspections indicate that the integrity of the cap appears sound (see the quarterly inspection reports included as Appendix G in the attached OM&M Report).
 - Ensuring that groundwater is being routed to the groundwater

collection trench: The integrity of the drainage and groundwater collection systems is evaluated during the quarterly site inspections and maintenance of these systems is performed when problems are identified. Water level measurements collected monthly from site monitoring wells, piezometers, and sumps are used to establish quarterly groundwater elevations at the site (see monthly and quarterly water level measurements, included as Appendix C and D, respectively, in the attached OM&M Report). The quarterly groundwater elevations are then used to plot quarterly groundwater contour maps. These contour maps indicate that groundwater at the site is being routed to the groundwater collection trench as designed (see quarterly groundwater contour maps included as Appendix E in the attached OM&M Report).

- Ensuring that the wetlands area is successfully functioning as designed: In their letter addressed to Honeywell, dated October 24, 2012, the USACE indicated that the terms and conditions of Permit No. 98-976-0162(0) had been met and no further actions were required. To ensure continued adequate survival of the woody buffer restoration planted in 2012, watering of the shrubs and trees was conducted as necessary during the growing season in 2013. Additional bracing (i.e., additional fence posts) was installed to strengthen the fencing so that deer cannot easily push it down and gain access to the planting areas.

- IV. IC/EC Plan Compliance Report – An IC/EC Plan was submitted to the NYSDEC on December 13, 2012 by Amec, on behalf of Honeywell. The IC/EC Plan has been adopted, and discussion of the status of institutional controls is included in this PRR. The status of site engineering controls is discussed in the attached OM&M Report.
- V. Monitoring Plan Compliance Report – A separate Monitoring Plan Compliance Report is not required for this site. Monitoring requirements are addressed in the OM&M Manual.
- VI. Operations and Maintenance Plan Compliance Report
 - A. Components of the OM&M Manual – Requirements of the OM&M Manual include the following:
 - BSA Discharge Monitoring.
 - Groundwater Monitoring and Annual Groundwater Sampling.
 - Landfill Gas Monitoring.
 - Surface Water Level Measurements.
 - Quarterly Site Inspections.
 - Maintenance Activities (including annual mowing of cap, repair of access roads and areas without vegetative cover, repair of areas showing erosion or subsidence, and maintenance of the drainage and groundwater collection systems).

- B. Summary of OM&M Completed During 2013: BSA discharge monitoring, groundwater monitoring, quarterly site inspections, and other OM&M activities were completed in 2013 in accordance with the OM&M Manual. The following summarizes the activities completed:
- BSA discharge monitoring was conducted on a semi-annual basis in 2013 in accordance with the BPDES Permit in effect (Permit #09-10-BU098), as modified by BSA's letter dated July 24, 2013. Collected samples were submitted to TestAmerica Laboratories of Amherst, New York for analyses of the required parameters. Honeywell's OM&M Contractor - CH2M Hill-OMI - prepared and submitted semi-annual discharge monitoring reports that documented the results of the monitoring to BSA. All sample results were within the permit limits.
 - Groundwater levels for site piezometers, wells and groundwater collection trench sumps were recorded on a quarterly basis. The annual groundwater sampling event was completed in September 2013 and included collection of aqueous samples from background monitoring well MW-2 and collection system sumps; the samples were analyzed for parameters as described in the OM&M Manual. The results are summarized in the attached OM&M Report, and the analytical results are included in Appendix F.
 - Quarterly site inspections were conducted as outlined in the OM&M Manual.
 - Routine and non-routine maintenance activities completed in 2013 included the following:
 - o Periodic inspection and cleaning of the lift station flow meter.
 - o Plowing of snow from the entrance road as necessary.
 - o Completed maintenance of the autodialer phone line on January 10, 2013.
 - o Replaced gas vent GV-1 on April 5, 2013.
 - o Conducting watering of tree and shrub plantings on an as needed basis.
 - o Completed annual landfill cap mowing on September 6, 2013.
 - o Completed repairs to sump #2 discharge line to address leakage on April 14, 2014.
- C. Evaluation of Remedial Systems: During 2013, the remedial systems appeared to be effectively achieving the objectives of the remedial action, as described in the attached OM&M Report.
- D. OM&M Deficiencies: Most of the monitoring points are fully functional; however, there are three damaged or destroyed monitoring points (MW-1, PZ-14, and PZ-16).

E. Conclusions and Recommendations: The following conclusions were developed based on the data collected during the 2013 OM&M period:

- Based on the results of the quarterly inspection reports, which verify that the integrity of the cap is satisfactory and vegetation is established, the remedy remains protective for direct contact with waste and impacted soils and sediments.
- Based on the evaluation of the collected groundwater elevation data, which indicates that impacted groundwater is flowing into the groundwater collection trench as designed, the remedy is preventing impacted groundwater from discharging into the adjacent wetlands.
- Based on the analytical results from BSA discharge monitoring, compounds in the discharge are within the BSA permit limits.

The following recommendations were developed based on the data collected during 2013 OM&M period:

- BSA Discharge Monitoring – In accordance with the new BSA permit, discharge monitoring will be conducted on a semi-annual basis, with reports issued to BSA and copied to the NYSDEC.
- Groundwater Monitoring – Annual groundwater monitoring will be completed in 2014 with groundwater monitoring results reported in the next annual PRR submittal.
- Water Level Measurements – Collection of water level measurements will be conducted on a quarterly basis.
- Landfill Gas Monitoring – measurements of methane gas concentrations at gas vents GV-1, GV-2, GV-3, the four sump locations, and the four ground surface locations have been below the LEL since the third quarter of 2011. Consistent with the requirements set forth in the Operations, Maintenance, and Monitoring Manual (Parsons, 2006), landfill gas monitoring will be conducted on an annual basis.
- Surface Water Level Measurements –in conjunction with the site inspections, surface water level measurements will continue to be collected on a quarterly basis using the top of the weir structure at the north end of Pond A as a reference.
- Site inspections will continue on a quarterly basis.
- Routine OM&M activities will continue on a monthly basis, or more frequently as needed.
- The next PRR submittal, to include the annual OM&M report, should be completed and submitted to NYSDEC by the end of May 2015.

VII. Overall PRR Conclusions

- A. Compliance: Activities were completed during 2013 as noted above.
- B. Performance and Effectiveness of the Remedy: The condition of the cap system and consistent groundwater flow into the groundwater collection trench indicate that the remedy is performing effectively.
- C. Future PRR submittals: It is anticipated that the next PRR will be submitted by the end of May 2015.

Closing

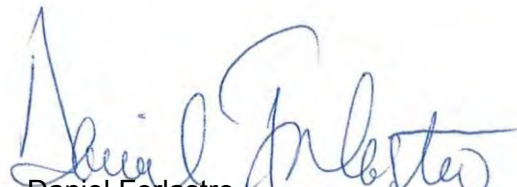
Please contact Ryan Belcher at (207) 828-3530 with any questions or comments on this submittal.

Respectfully,

MACTEC Engineering and Consulting P.C.



Ryan Belcher
Senior Engineer



Daniel Forlastro
Principal Engineer

Attachments

cc: R. Galloway (Honeywell)
D. Sutton (City of Buffalo)

ATTACHMENT A

PRR NOTICE

IC/EC CONTROLS CERTIFICATION FORM



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details		Box 1	
Site No.	915054		
Site Name Altift Landfill			
Site Address: 302 Abby Street		Zip Code: 14202	
City/Town: Buffalo			
County: Erie			
Site Acreage: 37.8			
Reporting Period: April 05, 2013 to April 21, 2014			
		YES	NO
1. Is the information above correct?		☒	☐
If NO, include handwritten above or on a separate sheet.			
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.			
5. Is the site currently undergoing development?		☐	☒
		Box 2	
		YES	NO
6. Is the current site use consistent with the use(s) listed below? Closed Landfill		☒	☐
7. Are all ICs/ECs in place and functioning as designed?		☒	☐
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.			
A Corrective Measures Work Plan must be submitted along with this form to address these issues.			
Signature of Owner, Remedial Party or Designated Representative		Date	

Description of Institutional Controls

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
132-12-1-22	CSX Transportation Inc. - Adrian Realty	Ground Water Use Restriction Landuse Restriction O&M Plan

A Declaration of Covenants and Restrictions was placed on this property by the owner on 08/05/2011 (Filed 08/11/2011) as a requirement of the ROD dated 3/27/1995 for the Altift Landfill Site, Site #915054.

Deed Restriction - 106 Abby Street:

No activity that will prevent or interfere with ongoing remediation;
will not disturb cap or cover;
prohibition of any new use without Department waiver;
prohibit use of groundwater;
allow Department access;
no interference with maintenance of wetlands;
will not impede maintenance of water elevation control (headwall);
no interference with ECs and Institutional Controls (ICs);
declaration deemed covenant, runs with the land and binding on successors and assigns; and,
any deed of conveyance shall recite the covenants and restrictions.

132.12-1-21	City of Buffalo, Prefecting	Ground Water Use Restriction Site Management Plan IC/EC Plan Monitoring Plan Landuse Restriction O&M Plan

In addition to the Engineering Controls in place after the remediation, this site is under the control of an Environmental Notice placed by the Department filed 3/12/2012.

Engineering Controls:

Cover system - Part 360 composite cap
Leachate collection trench and sump system
Fencing around entire site

Institutional Controls - Environmental Notice:

Property subject to provision of OM&M Manual;
no excavation that threatens engineering control(EC);
no disturbance of EC w/out Department waiver;
restrict re-use to commercial/industrial; and,
prohibit use of groundwater.

133.09-1-17	Skyway Auto Parts	Ground Water Use Restriction Landuse Restriction O&M Plan

No Engineering controls are required on this site. A Declaration of Covenants and Restrictions was placed on this property by the owner on 2/15/2012 (Filed 3/01/2012) as a requirement of the ROD.

Deed Restriction - 637 Tift Street

No activity that will prevent or interfere with ongoing remediation;
provide 60 day notice of any change of use;
prohibit groundwater use;
allow access for Department;
declaration deemed covenant, runs with the land and binding on successors and assigns; and,
any deed of conveyance shall recite the covenants and restrictions.

Description of Engineering Controls

Parcel
132.12-1-21

Engineering Control
Leachate Collection
Cover System
Fencing/Access Control

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

- (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 915054

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

Richard Galloway at Honeywell 101 Columbia Rd, MORRISTOWN
print name print business address NT 07962

am certifying as Remedial Party (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Richard W. Galloway
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

MAY 12, 2014
Date

IC/EC CERTIFICATIONS

Box 7

Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I DANIEL FORLASTRO at MAETEC ENGINEERING & CONSULTING, PC
print name 800 N. BELL AVE, CARNEGIE, PA 15106
print business address

am certifying as a REMEDIAL PARTY (Owner or Remedial Party)
PROFESSIONAL ENGINEER

Daniel Forlastro

Signature of for the Owner or Remedial Party,
Rendering Certification

PROFESSIONAL ENGINEER



5/12/14
Date

ATTACHMENT B

2013 ANNUAL OPERATIONS, MAINTENANCE,

AND MONITORING REPORT

2013 ANNUAL OPERATIONS, MAINTENANCE, AND MONITORING REPORT

ALLTIFT LANDFILL SITE /RAMCO STEEL SITE

**Buffalo, Erie County, New York
(NYSDEC Site Nos. 9-15-054 /9-15-046B)**

Submitted To:



**The New York State Department of Environmental Conservation
Division of Hazardous Waste Remediation**

Submitted By:

Honeywell

**101 Columbia Road
Morristown, NJ 07962**

Prepared By:



**MACTEC Engineering and Consulting, P.C.
511 Congress Street
Portland, Maine 04101**

May 2014

2013 ANNUAL OPERATIONS, MAINTENANCE, AND MONITORING REPORT

ALLTIFT LANDFILL SITE /RAMCO STEEL SITE

Buffalo, Erie County, New York
(NYSDEC Site Nos. 9-15-054 /9-15-046B)

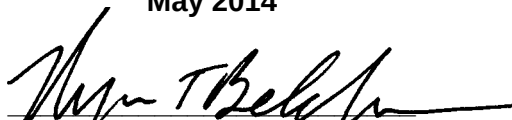
Submitted To:
The New York State Department of Environmental Conservation
Division of Hazardous Waste Remediation

Submitted By:
Honeywell
101 Columbia Road
Morristown, NJ 07962

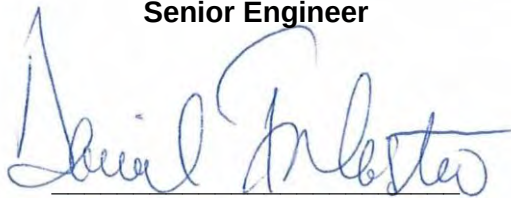
Prepared By:
 **MACTEC**

MACTEC Engineering and Consulting, P.C.
511 Congress Street
Portland, Maine 04101

May 2014



Ryan Belcher
Senior Engineer



Daniel Forlastro
Principal Engineer

Project Number: 3410120905

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- B: Semi-Annual Discharge Monitoring Reports
- C: Water Level Measurements
- D: Quarterly Groundwater Elevations
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- F: Groundwater Analytical Results
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ACRONYMS AND ABBREVIATIONS

BSA	Buffalo Sewer Authority
BPDES	Buffalo Pollutant Discharge Elimination System
EPA	Environmental Protection Agency
Honeywell	Honeywell International Inc.
LEL	Lower Explosive Limit
Mactec	Mactec Engineering and Consulting, P.C.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
mg/L	milligrams per liter
µg/L	micrograms per liter
NYSDEC	New York State Department of Environmental Conservation
OM&M	Operations and maintenance Manual
OMI	CH2M Hill OMI
PCB	polychlorinated biphenyl
PRR	Periodic Review Report
SVOC	Semivolatile Organic Compound
USACE	United States Army Corps of Engineers
VOC	Volatile Organic Compound

1.0 INTRODUCTION

In accordance with a New York State Department of Environmental Conservation (NYSDEC) Order on Consent (Index No. B9-0194-87-07), Honeywell International Inc. (Honeywell) (formerly Allied-Signal, Inc.) performed a remedial action at the Alltift Landfill and the Ramco Steel sites, and is performing long-term operations, maintenance, and monitoring (OM&M) at the sites. MACTEC Engineering and Consulting, Inc., (Mactec), has prepared this report on behalf of Honeywell to document the results of the OM&M activities performed in 2013. The activities described in this report were completed in accordance with the sites Operations, Maintenance, and Monitoring Manual (Parsons, 2006).

The primary remedial objectives at the Alltift Landfill Site are to eliminate the potential for direct contact with waste and impacted soils and sediments, and to eliminate the potential for impacted groundwater to discharge to the Buffalo River. The key remedial actions for the site included the consolidation and capping of landfill waste and impacted soils and sediments; construction of groundwater collection and relief trenches for groundwater control; groundwater monitoring; and restoration of ponds and wetlands. Remedial construction began in November 2003 and was completed in November 2005.

This annual report has been prepared to summarize the OM&M activities completed at the sites from January 1, 2013 through April 21, 2014. Figures showing the site location and current conditions Site Plan are included as Appendix A. It is anticipated that the next annual OM&M report will be submitted by the end of May 2015.

1.1 Project Background and Site Description

The Alltift Landfill site is located at 579 Tift Street in the southern portion of the City of Buffalo, Erie County, New York. Figures that show the site location and current conditions site plan are provided in Appendix A. The site is located south of Tift Street, approximately 1,300 feet west of Hopkins Street, and 5,000 feet east of the intersection of Tift Street and Route 5. It is bounded on the north by Tift Street; on the west by a railroad right-of-way and tracks; on the south by several ponds and the Ramco Steel site; and on the east by Skyway Auto Parts, Inc.

The Ramco Steel Site is adjacent to the southeastern tip of the Alltift Landfill, and is approximately 8.5 acres in size and generally square in shape. The site is bounded on the north by the Alltift Landfill and Skyway Auto Parts, Inc.; on the east by Niagara Cold Drawn; on the west by a railroad right-of-way and tracks; and on the south by Republic Steel or LTV (NYSDEC Site No. 9-15-047) and an abandoned facility formerly housing Sloan Auto Parts. The Ramco Steel Site encompasses the body of water known as the Ramco Pond.

The Alltift Landfill Site was a former landfill/waste disposal area that was remediated between November 2003 and November 2005 under an Order on Consent between AlliedSignal (now Honeywell) and the NYSDEC (NYSDEC, 1997). Remediation activities included those conducted on the adjacent Ramco Steel Site (NYSDEC Site No. 9-15-046B).

The remediation involved consolidation of the wastes present on the Alltift Landfill and Ramco Steel sites into a capped landfill on the Alltift Site. A groundwater control system was installed at the downgradient toe of the landfill to collect and pump groundwater that emanates from the landfill to a sewer line owned by the Buffalo Sewer Authority (BSA) in accordance with a Buffalo Pollutant Discharge Elimination System Permit (BSA Permit). As part of the remedial construction, man-made wetlands were created on the western and southern ends of the Alltift Landfill site and the adjacent Ramco Steel property (see Site Plan in Appendix A).

On April 5, 2013, the NYSDEC accepted and approved the Construction Certification Report and Operation, Maintenance, and Monitoring Plan for the Alltift Landfill Site/Ramco Steel Site. The NYSDEC then re-classified the Alltift Landfill Site (NYSDEC Site No. 9-15-054) from Class 2 to Class 4, and de-listed the Ramco Steel Site (NYSDEC Site No. 9-15-046B).

1.2 2013 OM&M Activities

OM&M activities conducted at the site in 2013 included BSA discharge monitoring, groundwater monitoring, quarterly site inspections, and routine and non-routine maintenance activities. These activities are described in detail in Section 2.0 of this report.

2.0 SUMMARY OF 2013 OM&M ACTIVITIES

Since September 2007, Honeywell has contracted with CH2M HILL-OMI (OMI) to perform the OM&M activities at the site. In 2013, the annual groundwater sampling activities were also conducted by OMI. The following sections summarize the OM&M activities completed in 2013.

2.1 BSA Discharge Monitoring

As part of the Remedial Action, a groundwater collection trench was installed along the western and southern perimeter of the landfill cap to intercept shallow groundwater, and a groundwater relief trench was installed along the western toe of the landfill to control leachate. The groundwater collection trench contains four vertical pumping points, identified as Sumps 1 through 4, which are constructed similar to extractions wells. Pumps in Sumps 1 and 2 operate continually in order to transfer the groundwater from the collection and relief trenches to a lift station at the southeastern corner of the site. The lift station then transfers the water through a force main to a manhole located on Hopkins Street, under a permit with the BSA.

In accordance with the BSA permit, samples from the lift station were collected and analyzed semi-annually in March and September 2013 and April 2014. The results of the sampling are discussed in Section 3.1.

2.2 Groundwater Monitoring

The 2013 groundwater monitoring activities included the collection of quarterly water level measurements and annual groundwater sampling. These activities are summarized in the following subsections. The results of the activities are discussed in Section 3.2.

2.2.1 Quarterly Water Level Measurements

Water level measurements were collected on a quarterly basis from piezometers PZ-1 through PZ-13, piezometer PZ-15, and sumps 1 through 4, and annually from monitoring well MW-2, to monitor groundwater elevations upgradient, within, and downgradient of the groundwater collection trench. Three monitoring points specified in the OM&M Manual could not be included in the monitoring program: background monitoring well MW-1 has apparently been destroyed or paved over by the adjacent property owner, and landfill piezometers PZ-14 and PZ-16 have damaged well casing, which does not allow passage of a water level meter or sampling equipment.

2.2.2 Groundwater Sampling

On September 9, 2013 OMI collected groundwater samples from background monitoring well MW-2 and the groundwater collection trench sumps. The samples were collected and analyzed in accordance with the OM&M Manual (Parsons, 2006). During the sampling event, the depth to water and total well depth were gauged and recorded at monitoring well

MW-2 prior to purging activities. Well MW-2 was purged and sampled using low-flow techniques, which includes monitoring field measurements such as pH, temperature, conductivity, and dissolved oxygen for stabilization prior to sampling. Field measurements of these parameters were also recorded at all of the sumps prior to sampling. A peristaltic pump with dedicated tubing was used to collect each sample. Grab samples were collected from each sump, and one composite sample was collected from the four sumps during the sampling event. Due to slow recharge in MW-2, a Matrix Spike (MS), Matrix Spike Duplicate (MSD), and duplicate sample were collected from Sump 4. Immediately upon completion of sample collection, the groundwater samples were packed with ice in laboratory coolers, and delivered to the laboratory. Chain-of-Custody procedures were followed per the OM&M Manual (Parsons, 2006).

The 2013 groundwater samples were analyzed as follows:

Parameter	Analytical Method	Where Collected
Volatile Organic Compounds (VOCs) Benzene, chlorobenzene, ethylbenzene, xylenes, 1,2-dichlorobenzene, 1,4-dichlorobenzene	Environmental Protection Agency (EPA) 8260	MW-2 Sumps 1 through 4 ⁽¹⁾ Sump 4 (Duplicate, MS, MSD)
Semivolatile Organic Compounds (SVOCs) naphthalene, 4-chloroaniline	EPA 8270	MW-2 Sump 4 Sump Composite ⁽²⁾ Sump 4 (Duplicate, MS, MSD)
Total Metals antimony, arsenic, cadmium, chromium, iron, lead, manganese, mercury	EPA 6020/6010 /7470	MW-2 Sump 4 Sump Composite ⁽²⁾ Sump 4 (Duplicate, MS, MSD)

Notes:

- (1) Individual samples were collected for VOC analysis to minimize potential volatilization of compounds
- (2) Composite of Sump 1 through Sump 4

Concentrations of polychlorinated biphenyls (PCBs) and pesticides were not detected in groundwater samples collected at the site since monitoring activities began in 2006 through 2012. Therefore, the sampling and analysis plan was revised per recommendations in the approved 2012 Periodic Review Report (PRR) to remove these analytes from the annual groundwater monitoring requirements.

2.3 Landfill Gas Monitoring

Landfill gas monitoring was completed on a quarterly basis by OMI at the three gas vents, the four corners of the landfill and from each of the sumps in 2013. The results of the monitoring are described in Section 3.4.

2.4 Site Inspections

Quarterly inspections were completed by OMI on March 13, May 21, September 10, October 24, 2013, January 15, 2014, and April 14, 2014. The inspections were conducted in accordance with the OM&M Manual (Parsons, 2006). The cap, collection systems, monitoring points, and gas vents were visually inspected during each event. The results of the inspections are discussed in Section 3.5.

2.5 Maintenance Activities

Maintenance activities were performed routinely by OMI for the site on a monthly basis or as needed throughout the year. The following is a summary of the routine and additional maintenance activities completed at the site during the 2013 calendar year:

- Periodic inspection and cleaning of the lift station flow meter.
- Plowing of snow from the entrance road as necessary.
- Completed maintenance of the autodialer phone line on January 10, 2013.
- Replaced gas vent GV-1 on April 5, 2013.
- Conducting watering of tree and shrub plantings on an as needed basis.
- Completed annual landfill cap mowing on September 6, 2013.
- Completed repairs to sump #2 discharge line to address leakage on April 14, 2014.

2.6 Wetland Monitoring

In 2005, wetlands were constructed on the site to restore and enhance the wetlands impacted during the capping of the landfill located at the site. Wetland mitigation was undertaken in accordance with a letter issued by the United States Army Corps of Engineers (USACE) regarding Permit Application No. 98-976-0162(0). In accordance with the OM&M Manual (Parsons, 2006) and the USACE Nationwide Permit No. 38 (USACE, 2004), annual wetlands inspections were conducted and wetlands mitigation monitoring reports were produced for the first three years following construction of the mitigation wetland (calendar years 2006, 2007, and 2008), with the fifth year inspection and associated report completed in 2011 (Mactec, 2011a). Pursuant to findings of the fifth year inspection the following corrective actions agreed upon as necessary to close the Permit were completed in 2011 and 2012:

1. Invasive Species Control
2. Habitat Enhancement-Coarse Woody Debris
3. Woody Buffer Restoration

The corrective actions were completed consistent with a work plan submitted to the USACE on December 22, 2011 (Mactec, 2011b) and documented in a letter report submitted to the USACE on September 28, 2012 with copy to the NYSDEC (Mactec, 2012). In their letter addressed to Honeywell, dated October 24, 2012, the USACE provided approval of the completion of the required corrective actions, and indicated that the terms and conditions of Permit No. 98-976-0162(0) had been met and no further actions were required.

To ensure adequate survival of the shrub/tree islands, watering of the shrubs and trees was conducted as necessary during the growing season in 2013. Additional bracing (i.e., additional fence posts) was installed to strengthen the fencing so that deer cannot easily push it down and gain access to the planting areas. The fence will be maintained for at least one more growing season (i.e., through 2014) or until the shrubs and trees have matured and can survive browsing by deer.

It was noted during 2012 that that the density and extent of cattails within the ponds located along the western edge of the capped landfill have been reduced. This reduction is believed to be due primarily to muskrat browsing and was exacerbated in 2012 by low water levels due to extremely dry conditions experienced during the summer. In 2013, significant cattail re-growth was not observed.

3.0 RESULTS OF 2013 OM&M ACTIVITIES

As discussed previously, OMI completed the 2013 OM&M activities at the site and the annual groundwater sampling. The following sections summarize the results of OMI's activities.

3.1 BSA Discharge Monitoring

As required under the BSA discharge permit, samples of the system effluent were collected from the lift station by OMI on a semi-annual basis in March and September of 2013 and April 2014. Samples collected were submitted to TestAmerica Laboratories of Amherst, New York for analyses of the required parameters. OMI prepared and submitted semi-annual discharge monitoring reports that documented the results of the monitoring of discharge water to the BSA. All sampling results were within the BSA permit limits. These reports were sent to the BSA and NYSDEC on a semi-annual basis (Appendix B).

Semi-annual sampling will continue in as required under the new BSA discharge permit (Permit No. 12-12-BU98) issued on October 10, 2012, and effective December 1, 2012.

3.2 Groundwater Monitoring

The 2013 groundwater monitoring activities included the collection of quarterly water level measurements and annual groundwater sampling. The results of these activities are described in the following subsections.

3.2.1 Quarterly Water Level Measurements

Groundwater levels in site piezometers, wells and groundwater collection trench sumps were recorded on a quarterly basis. Copies of the tables that show the quarterly water level measurements for 2013 are included in Appendix C. Copies of tables that summarize the quarterly groundwater elevations for 2013 are included in Appendix D. The groundwater elevations were used to prepare the quarterly groundwater contour maps for 2013, which are presented in Appendix E. Based on the groundwater elevation data, it is concluded that groundwater flowing toward the toe of the Alltft landfill is being collected by the groundwater capture trench system, as intended by the system's design.

3.2.2 Groundwater Sampling

Groundwater sampling was conducted at the site in September 2013 in accordance with the OM&M Manual (Parsons, 2006). The analytical laboratory report for the September 2013 groundwater sampling event is provided as Appendix F.

The analytical results for the groundwater sampling event in September 2013 are summarized on Table 1. During the September 2013 sampling event, concentrations of arsenic, iron, manganese, and chlorobenzene were detected in one or more samples of the

leachate collection system at concentrations above the corresponding NYSDEC Class GA (groundwater) standard.

Arsenic was detected above the NYSDEC Class GA (groundwater) standard of 0.025 micrograms per liter ($\mu\text{g/L}$) in the Sumps 1 through 4 composite sample at a concentration of 0.03 $\mu\text{g/L}$.

Iron was detected above the groundwater standard of 0.3 milligrams per liter (mg/L) in the grab sample from Sump 4 and the Sumps 1 through 4 composite sample (10.9 and 13.7 mg/L , respectively).

Manganese was detected above the groundwater standard of 0.3 mg/L in the grab sample from Sump 4 and the Sumps 1 through 4 composite sample (3.4 and 3.2 mg/L , respectively).

Chlorobenzene was detected above the groundwater standard of 5 $\mu\text{g/L}$ in samples collected from Sump 1, 2, and 4 (13, 16, and 33 $\mu\text{g/L}$, respectively).

Based on a comparison of detections in the sump samples to detections in the background well (MW-2), it does not appear that contaminants of concern are migrating onto the site. Concentrations of chlorobenzene were not detected in MW-2. Iron and manganese were the only analytes detected in MW-2 at a concentration exceeding groundwater standards. The 2013 groundwater monitoring results are consistent with the results from prior groundwater monitoring events.

3.3 Surface Water Measurements

Surface water level measurements were collected on January 10, 2013, May 21, 2013, September 11, 2013, and October 24, 2013 from a weir structure located at the north end (i.e., outlet end) of Pond A. The top of the concrete weir has an elevation measurement point of 580.26 feet. The water level was measured as 12 inches below the top of the concrete weir during the first two events and at 14 inches below the top of the weir during the two subsequent measurements. A measurement of the water level at the weir was attempted in March 2014, but could not be obtained due to significant ice buildup.

3.4 Landfill gas monitoring

Landfill gas monitoring was conducted on a quarterly basis in 2013, and annually in 2014 (conducted in January 2014). During each event the gas vents (GV-1, GV-2 and GV-3), the four sump locations (Sump 1 through Sump 4), and four ground monitoring locations were monitored. The four ground monitoring locations were:

- Ground 1 - Northwest corner of landfill

- Ground 2 – West side of landfill
- Ground 3 – Southeast corner of landfill
- Ground 4 – Northeast corner of landfill

The gas vents were monitored for percent of the Lower Explosive Limit (LEL) of Methane, Methane, Oxygen, and Carbon Dioxide (See Table 2).

During landfill gas monitoring in 2013, a percentage of the LEL of methane gas was detected in all three monitoring gas vents GV-1, GV-2, and GV-3, all four ground monitoring locations, and all four sumps during at least one quarterly monitoring event. The landfill gas monitoring data is summarized on Table 2.

3.5 Site Inspections

Quarterly site inspections were performed by OMI on March 13, May 21, September 10, October 24, 2013, January 15, 2014, and April 14, 2014. The inspections were conducted in accordance with the OM&M Manual (Parsons, 2006). The wetlands, groundwater monitoring wells, drainage system, gas vents, and landfill cap were visually inspected. Copies of the completed inspection checklists are provided in Appendix G.

A representative of the NYSDEC participated in the third quarter 2013 inspection. These inspections indicated that the site has a substantial vegetative cover and that the surface drainage system is in good condition. The lack of sediment buildup, ponded water, uncontrolled runoff, or slope instability indicates that the drainage system is adequate and operational. The access road is in good condition. The condition of the perimeter fence, gates, locks, and signs are sufficient to restrict access. The integrity of the groundwater monitoring wells, piezometers, and sumps were verified during the inspections. More specific information regarding the quarterly inspections are provided in the subsections below.

3.5.1 March 13, 2013 Inspection

The integrity of the cap was acceptable during the inspection. The condition of the fence, gates, locks, and access roads were acceptable and there was no evidence of trespassers or vandalism. The groundwater collection system, monitoring well, and sumps were in acceptable condition. One gas vent, GV-1, required replacement. The vent was replaced on April 5, 2013.

3.5.2 May 21, 2013 Inspection

The integrity of the cap and vegetative cover were acceptable during the inspection. The condition of the fence, gates, locks, and access roads were acceptable and there was no evidence of trespassers or vandalism. The groundwater collection system, monitoring well, and sumps were observed to be in acceptable condition.

3.5.3 September 10, 2013 Inspection

The integrity of the cap and vegetative cover were acceptable during the inspection. The condition of the fence, gates, locks, and access roads were acceptable and there was no evidence of trespassers or vandalism. The gas venting system, groundwater collection system, monitoring well, and sumps were observed to be in acceptable condition.

3.5.4 October 24, 2013 Inspection

The integrity of the cap and vegetative cover were acceptable during the inspection. The condition of the fence, gates, locks, and access roads were acceptable and there was no evidence of trespassers or vandalism. The gas venting system, groundwater collection system, monitoring well, and sumps were observed to be in acceptable condition.

3.5.5 January 15, 2014 Inspection

The integrity of the cap and vegetative cover were acceptable during the inspection. The condition of the fence, gates, locks, and access roads were acceptable and there was no evidence of trespassers or vandalism. The gas venting system, groundwater collection system, monitoring well, and sumps were observed to be in acceptable condition.

3.5.6 April 14, 2014 Inspection

The integrity of the cap and vegetative cover were acceptable during the inspection. The condition of the fence, gates, locks, and access roads were acceptable and there was no evidence of trespassers or vandalism. The gas venting system, groundwater collection system, monitoring well, and sumps were observed to be in acceptable condition.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions were developed based on the data collected during the 2013 OM&M period:

- Based on the results of the quarterly inspection reports, which verify that the integrity of the cap is adequate and vegetation is established, the remedy remains protective for direct contact with waste and impacted soils and sediments.
- Based on the evaluation of the collected groundwater elevation data, which indicates that impacted groundwater is flowing into the groundwater collection trench as designed, the remedy is preventing impacted groundwater from discharging into the adjacent wetlands.
- Based on the analytical results from BSA discharge monitoring, compounds in the discharge are within the BSA permit limits.

The following recommendations were developed based on the data collected during the 2013 OM&M period:

- BSA Discharge Monitoring – in accordance with the new BSA permit (Permit No. 12-12-BU98), discharge monitoring will continue on a semi-annual basis, with reports issued to BSA and copied to the NYSDEC.
- No further mitigation, monitoring, or reporting activities associated with the Wetland Mitigation Area are required. However, watering of the plants associated with the woody buffer will continue on an as needed basis if required due to drought conditions and maintenance of the protective snow fence will be conducted to protect against deer browsing.
- Groundwater Monitoring – Annual groundwater monitoring will be completed in 2014 from the same monitoring points used during prior monitoring events. Groundwater monitoring results will be reported in the next annual PRR submittal.
- Water Level Measurements – Water level measurements will continue on a quarterly basis, to be collected from site monitoring wells, piezometers, and sumps, consistent with the requirements presented in Table 2.2 of the OM&M Manual (Parsons, 2006). Collection of water level measurements will be conducted in conjunction with site inspections.
- Landfill Gas Monitoring – measurements of methane gas concentrations at gas vents GV-1, GV-2, GV-3, the four sump locations, and the four ground surface locations have been below the LEL since the third quarter of 2011. Consistent with the requirements set forth in the Operations, Maintenance, and Monitoring Manual (Parsons, 2006), landfill gas monitoring will be conducted on an annual basis.
- Surface Water Level Measurements – in conjunction with the site inspections, surface water levels will continue to be collected on a quarterly basis, using the top of the weir structure at the north end of Pond A as a reference.
- Site inspections will continue on a quarterly basis during 2014.

- Routine OM&M activities will continue on an approximate monthly basis, or more frequently as needed.

5.0 REFERENCES

- NYSDEC, 1997. Order on Consent between AlliedSignal, Inc. and NYSDEC, Index #B9-87-194, #B9-0358-91-2, Site Codes #9515054 and 915046B. December 1997.
- USACE, 2004. March 24, 2004, Application No. 98-976-0162(0), Nationwide Permit No. (38) as Published in the Federal Register, Volume 67, No. 10, on Tuesday, January 15, 2002, signed by Gary E. McDannell.
- Parsons, 2006. Operations, Maintenance, and Monitoring Manual for Alltift Landfill Site, NYSDEC Site No. 9-15-054 and Ramco Steel Site, NYSDEC Site No. 9-15-046B, Buffalo, New York. March 2006.
- Mactec, 2011a. July 1, 2011, Annual Wetland Mitigation Report “Year 5 of 5” for Alltift Landfill, Buffalo, New York, signed by Charles H. Lyman and John M. Scrabis.
- Mactec, 2011b. December 22, 2011, Work Plan – Corrective Action Activities Mitigation Wetland Area, Permit Application No. 98-976-0162(0), Alltift Landfill and Ramco Steel Sites Buffalo, New York, signed by Ryan T. Belcher and John M. Scrabis.
- Mactec, 2012. September 28, 2012, Corrective Action Completion Report, Wetland Mitigation Area – Permit 1998-9760162, Alltift Landfill and Ramco Steel Sites Buffalo, New York, signed by Ryan T. Belcher and Daniel Forlastro.

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ACRONYMS AND ABBREVIATIONS

BSA	Buffalo Sewer Authority
BPDES	Buffalo Pollutant Discharge Elimination System
EPA	Environmental Protection Agency
Honeywell	Honeywell International Inc.
LEL	Lower Explosive Limit
Mactec	Mactec Engineering and Consulting, P.C.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
mg/L	milligrams per liter
µg/L	micrograms per liter
NYSDEC	New York State Department of Environmental Conservation
OM&M	Operations and maintenance Manual
OMI	CH2M Hill OMI
PCB	polychlorinated biphenyl
PRR	Periodic Review Report
SVOC	Semivolatile Organic Compound
USACE	United States Army Corps of Engineers
VOC	Volatile Organic Compound

1.0 INTRODUCTION

In accordance with a New York State Department of Environmental Conservation (NYSDEC) Order on Consent (Index No. B9-0194-87-07), Honeywell International Inc. (Honeywell) (formerly Allied-Signal, Inc.) performed a remedial action at the Alltift Landfill and the Ramco Steel sites, and is performing long-term operations, maintenance, and monitoring (OM&M) at the sites. MACTEC Engineering and Consulting, Inc., (Mactec), has prepared this report on behalf of Honeywell to document the results of the OM&M activities performed in 2013. The activities described in this report were completed in accordance with the sites Operations, Maintenance, and Monitoring Manual (Parsons, 2006).

The primary remedial objectives at the Alltift Landfill Site are to eliminate the potential for direct contact with waste and impacted soils and sediments, and to eliminate the potential for impacted groundwater to discharge to the Buffalo River. The key remedial actions for the site included the consolidation and capping of landfill waste and impacted soils and sediments; construction of groundwater collection and relief trenches for groundwater control; groundwater monitoring; and restoration of ponds and wetlands. Remedial construction began in November 2003 and was completed in November 2005.

This annual report has been prepared to summarize the OM&M activities completed at the sites from January 1, 2013 through April 21, 2014. Figures showing the site location and current conditions Site Plan are included as Appendix A. It is anticipated that the next annual OM&M report will be submitted by the end of May 2015.

1.1 Project Background and Site Description

The Alltift Landfill site is located at 579 Tift Street in the southern portion of the City of Buffalo, Erie County, New York. Figures that show the site location and current conditions site plan are provided in Appendix A. The site is located south of Tift Street, approximately 1,300 feet west of Hopkins Street, and 5,000 feet east of the intersection of Tift Street and Route 5. It is bounded on the north by Tift Street; on the west by a railroad right-of-way and tracks; on the south by several ponds and the Ramco Steel site; and on the east by Skyway Auto Parts, Inc.

The Ramco Steel Site is adjacent to the southeastern tip of the Alltift Landfill, and is approximately 8.5 acres in size and generally square in shape. The site is bounded on the north by the Alltift Landfill and Skyway Auto Parts, Inc.; on the east by Niagara Cold Drawn; on the west by a railroad right-of-way and tracks; and on the south by Republic Steel or LTV (NYSDEC Site No. 9-15-047) and an abandoned facility formerly housing Sloan Auto Parts. The Ramco Steel Site encompasses the body of water known as the Ramco Pond.

The Alltift Landfill Site was a former landfill/waste disposal area that was remediated between November 2003 and November 2005 under an Order on Consent between AlliedSignal (now Honeywell) and the NYSDCE (NYSDCE, 1997). Remediation activities included those conducted on the adjacent Ramco Steel Site (NYSDEC Site No. 9-15-046B).

The remediation involved consolidation of the wastes present on the Alltift Landfill and Ramco Steel sites into a capped landfill on the Alltift Site. A groundwater control system was installed at the downgradient toe of the landfill to collect and pump groundwater that emanates from the landfill to a sewer line owned by the Buffalo Sewer Authority (BSA) in accordance with a Buffalo Pollutant Discharge Elimination System Permit (BSA Permit). As part of the remedial construction, man-made wetlands were created on the western and southern ends of the Alltift Landfill site and the adjacent Ramco Steel property (see Site Plan in Appendix A).

On April 5, 2013, the NYSDEC accepted and approved the Construction Certification Report and Operation, Maintenance, and Monitoring Plan for the Alltift Landfill Site/Ramco Steel Site. The NYSDEC then re-classified the Alltift Landfill Site (NYSDEC Site No. 9-15-054) from Class 2 to Class 4, and de-listed the Ramco Steel Site (NYSDEC Site No. 9-15-046B).

1.2 2013 OM&M Activities

OM&M activities conducted at the site in 2013 included BSA discharge monitoring, groundwater monitoring, quarterly site inspections, and routine and non-routine maintenance activities. These activities are described in detail in Section 2.0 of this report.

2.0 SUMMARY OF 2013 OM&M ACTIVITIES

Since September 2007, Honeywell has contracted with CH2M HILL-OMI (OMI) to perform the OM&M activities at the site. In 2013, the annual groundwater sampling activities were also conducted by OMI. The following sections summarize the OM&M activities completed in 2013.

2.1 BSA Discharge Monitoring

As part of the Remedial Action, a groundwater collection trench was installed along the western and southern perimeter of the landfill cap to intercept shallow groundwater, and a groundwater relief trench was installed along the western toe of the landfill to control leachate. The groundwater collection trench contains four vertical pumping points, identified as Sumps 1 through 4, which are constructed similar to extractions wells. Pumps in Sumps 1 and 2 operate continually in order to transfer the groundwater from the collection and relief trenches to a lift station at the southeastern corner of the site. The lift station then transfers the water through a force main to a manhole located on Hopkins Street, under a permit with the BSA.

In accordance with the BSA permit, samples from the lift station were collected and analyzed semi-annually in March and September 2013 and April 2014. The results of the sampling are discussed in Section 3.1.

2.2 Groundwater Monitoring

The 2013 groundwater monitoring activities included the collection of quarterly water level measurements and annual groundwater sampling. These activities are summarized in the following subsections. The results of the activities are discussed in Section 3.2.

2.2.1 Quarterly Water Level Measurements

Water level measurements were collected on a quarterly basis from piezometers PZ-1 through PZ-13, piezometer PZ-15, and sumps 1 through 4, and annually from monitoring well MW-2, to monitor groundwater elevations upgradient, within, and downgradient of the groundwater collection trench. Three monitoring points specified in the OM&M Manual could not be included in the monitoring program: background monitoring well MW-1 has apparently been destroyed or paved over by the adjacent property owner, and landfill piezometers PZ-14 and PZ-16 have damaged well casing, which does not allow passage of a water level meter or sampling equipment.

2.2.2 Groundwater Sampling

On September 9, 2013 OMI collected groundwater samples from background monitoring well MW-2 and the groundwater collection trench sumps. The samples were collected and analyzed in accordance with the OM&M Manual (Parsons, 2006). During the sampling event, the depth to water and total well depth were gauged and recorded at monitoring well

MW-2 prior to purging activities. Well MW-2 was purged and sampled using low-flow techniques, which includes monitoring field measurements such as pH, temperature, conductivity, and dissolved oxygen for stabilization prior to sampling. Field measurements of these parameters were also recorded at all of the sumps prior to sampling. A peristaltic pump with dedicated tubing was used to collect each sample. Grab samples were collected from each sump, and one composite sample was collected from the four sumps during the sampling event. Due to slow recharge in MW-2, a Matrix Spike (MS), Matrix Spike Duplicate (MSD), and duplicate sample were collected from Sump 4. Immediately upon completion of sample collection, the groundwater samples were packed with ice in laboratory coolers, and delivered to the laboratory. Chain-of-Custody procedures were followed per the OM&M Manual (Parsons, 2006).

The 2013 groundwater samples were analyzed as follows:

Parameter	Analytical Method	Where Collected
Volatile Organic Compounds (VOCs) Benzene, chlorobenzene, ethylbenzene, xylenes, 1,2-dichlorobenzene, 1,4-dichlorobenzene	Environmental Protection Agency (EPA) 8260	MW-2 Sumps 1 through 4 ⁽¹⁾ Sump 4 (Duplicate, MS, MSD)
Semivolatile Organic Compounds (SVOCs) naphthalene, 4-chloroaniline	EPA 8270	MW-2 Sump 4 Sump Composite ⁽²⁾ Sump 4 (Duplicate, MS, MSD)
Total Metals antimony, arsenic, cadmium, chromium, iron, lead, manganese, mercury	EPA 6020/6010 /7470	MW-2 Sump 4 Sump Composite ⁽²⁾ Sump 4 (Duplicate, MS, MSD)

Notes:

- (1) Individual samples were collected for VOC analysis to minimize potential volatilization of compounds
- (2) Composite of Sump 1 through Sump 4

Concentrations of polychlorinated biphenyls (PCBs) and pesticides were not detected in groundwater samples collected at the site since monitoring activities began in 2006 through 2012. Therefore, the sampling and analysis plan was revised per recommendations in the approved 2012 Periodic Review Report (PRR) to remove these analytes from the annual groundwater monitoring requirements.

2.3 Landfill Gas Monitoring

Landfill gas monitoring was completed on a quarterly basis by OMI at the three gas vents, the four corners of the landfill and from each of the sumps in 2013. The results of the monitoring are described in Section 3.4.

2.4 Site Inspections

Quarterly inspections were completed by OMI on March 13, May 21, September 10, October 24, 2013, January 15, 2014, and April 14, 2014. The inspections were conducted in accordance with the OM&M Manual (Parsons, 2006). The cap, collection systems, monitoring points, and gas vents were visually inspected during each event. The results of the inspections are discussed in Section 3.5.

2.5 Maintenance Activities

Maintenance activities were performed routinely by OMI for the site on a monthly basis or as needed throughout the year. The following is a summary of the routine and additional maintenance activities completed at the site during the 2013 calendar year:

- Periodic inspection and cleaning of the lift station flow meter.
- Plowing of snow from the entrance road as necessary.
- Completed maintenance of the autodialer phone line on January 10, 2013.
- Replaced gas vent GV-1 on April 5, 2013.
- Conducting watering of tree and shrub plantings on an as needed basis.
- Completed annual landfill cap mowing on September 6, 2013.
- Completed repairs to sump #2 discharge line to address leakage on April 14, 2014.

2.6 Wetland Monitoring

In 2005, wetlands were constructed on the site to restore and enhance the wetlands impacted during the capping of the landfill located at the site. Wetland mitigation was undertaken in accordance with a letter issued by the United States Army Corps of Engineers (USACE) regarding Permit Application No. 98-976-0162(0). In accordance with the OM&M Manual (Parsons, 2006) and the USACE Nationwide Permit No. 38 (USACE, 2004), annual wetlands inspections were conducted and wetlands mitigation monitoring reports were produced for the first three years following construction of the mitigation wetland (calendar years 2006, 2007, and 2008), with the fifth year inspection and associated report completed in 2011 (Mactec, 2011a). Pursuant to findings of the fifth year inspection the following corrective actions agreed upon as necessary to close the Permit were completed in 2011 and 2012:

1. Invasive Species Control
2. Habitat Enhancement-Coarse Woody Debris
3. Woody Buffer Restoration

The corrective actions were completed consistent with a work plan submitted to the USACE on December 22, 2011 (Mactec, 2011b) and documented in a letter report submitted to the USACE on September 28, 2012 with copy to the NYSDEC (Mactec, 2012). In their letter addressed to Honeywell, dated October 24, 2012, the USACE provided approval of the completion of the required corrective actions, and indicated that the terms and conditions of Permit No. 98-976-0162(0) had been met and no further actions were required.

To ensure adequate survival of the shrub/tree islands, watering of the shrubs and trees was conducted as necessary during the growing season in 2013. Additional bracing (i.e., additional fence posts) was installed to strengthen the fencing so that deer cannot easily push it down and gain access to the planting areas. The fence will be maintained for at least one more growing season (i.e., through 2014) or until the shrubs and trees have matured and can survive browsing by deer.

It was noted during 2012 that that the density and extent of cattails within the ponds located along the western edge of the capped landfill have been reduced. This reduction is believed to be due primarily to muskrat browsing and was exacerbated in 2012 by low water levels due to extremely dry conditions experienced during the summer. In 2013, significant cattail re-growth was not observed.

3.0 RESULTS OF 2013 OM&M ACTIVITIES

As discussed previously, OMI completed the 2013 OM&M activities at the site and the annual groundwater sampling. The following sections summarize the results of OMI's activities.

3.1 BSA Discharge Monitoring

As required under the BSA discharge permit, samples of the system effluent were collected from the lift station by OMI on a semi-annual basis in March and September of 2013 and April 2014. Samples collected were submitted to TestAmerica Laboratories of Amherst, New York for analyses of the required parameters. OMI prepared and submitted semi-annual discharge monitoring reports that documented the results of the monitoring of discharge water to the BSA. All sampling results were within the BSA permit limits. These reports were sent to the BSA and NYSDEC on a semi-annual basis (Appendix B).

Semi-annual sampling will continue in as required under the new BSA discharge permit (Permit No. 12-12-BU98) issued on October 10, 2012, and effective December 1, 2012.

3.2 Groundwater Monitoring

The 2013 groundwater monitoring activities included the collection of quarterly water level measurements and annual groundwater sampling. The results of these activities are described in the following subsections.

3.2.1 Quarterly Water Level Measurements

Groundwater levels in site piezometers, wells and groundwater collection trench sumps were recorded on a quarterly basis. Copies of the tables that show the quarterly water level measurements for 2013 are included in Appendix C. Copies of tables that summarize the quarterly groundwater elevations for 2013 are included in Appendix D. The groundwater elevations were used to prepare the quarterly groundwater contour maps for 2013, which are presented in Appendix E. Based on the groundwater elevation data, it is concluded that groundwater flowing toward the toe of the Alltft landfill is being collected by the groundwater capture trench system, as intended by the system's design.

3.2.2 Groundwater Sampling

Groundwater sampling was conducted at the site in September 2013 in accordance with the OM&M Manual (Parsons, 2006). The analytical laboratory report for the September 2013 groundwater sampling event is provided as Appendix F.

The analytical results for the groundwater sampling event in September 2013 are summarized on Table 1. During the September 2013 sampling event, concentrations of arsenic, iron, manganese, and chlorobenzene were detected in one or more samples of the

leachate collection system at concentrations above the corresponding NYSDEC Class GA (groundwater) standard.

Arsenic was detected above the NYSDEC Class GA (groundwater) standard of 0.025 micrograms per liter ($\mu\text{g/L}$) in the Sumps 1 through 4 composite sample at a concentration of 0.03 $\mu\text{g/L}$.

Iron was detected above the groundwater standard of 0.3 milligrams per liter (mg/L) in the grab sample from Sump 4 and the Sumps 1 through 4 composite sample (10.9 and 13.7 mg/L , respectively).

Manganese was detected above the groundwater standard of 0.3 mg/L in the grab sample from Sump 4 and the Sumps 1 through 4 composite sample (3.4 and 3.2 mg/L , respectively).

Chlorobenzene was detected above the groundwater standard of 5 $\mu\text{g/L}$ in samples collected from Sump 1, 2, and 4 (13, 16, and 33 $\mu\text{g/L}$, respectively).

Based on a comparison of detections in the sump samples to detections in the background well (MW-2), it does not appear that contaminants of concern are migrating onto the site. Concentrations of chlorobenzene were not detected in MW-2. Iron and manganese were the only analytes detected in MW-2 at a concentration exceeding groundwater standards. The 2013 groundwater monitoring results are consistent with the results from prior groundwater monitoring events.

3.3 Surface Water Measurements

Surface water level measurements were collected on January 10, 2013, May 21, 2013, September 11, 2013, and October 24, 2013 from a weir structure located at the north end (i.e., outlet end) of Pond A. The top of the concrete weir has an elevation measurement point of 580.26 feet. The water level was measured as 12 inches below the top of the concrete weir during the first two events and at 14 inches below the top of the weir during the two subsequent measurements. A measurement of the water level at the weir was attempted in March 2014, but could not be obtained due to significant ice buildup.

3.4 Landfill gas monitoring

Landfill gas monitoring was conducted on a quarterly basis in 2013, and annually in 2014 (conducted in January 2014). During each event the gas vents (GV-1, GV-2 and GV-3), the four sump locations (Sump 1 through Sump 4), and four ground monitoring locations were monitored. The four ground monitoring locations were:

- Ground 1 - Northwest corner of landfill

- Ground 2 – West side of landfill
- Ground 3 – Southeast corner of landfill
- Ground 4 – Northeast corner of landfill

The gas vents were monitored for percent of the Lower Explosive Limit (LEL) of Methane, Methane, Oxygen, and Carbon Dioxide (See Table 2).

During landfill gas monitoring in 2013, a percentage of the LEL of methane gas was detected in all three monitoring gas vents GV-1, GV-2, and GV-3, all four ground monitoring locations, and all four sumps during at least one quarterly monitoring event. The landfill gas monitoring data is summarized on Table 2.

3.5 Site Inspections

Quarterly site inspections were performed by OMI on March 13, May 21, September 10, October 24, 2013, January 15, 2014, and April 14, 2014. The inspections were conducted in accordance with the OM&M Manual (Parsons, 2006). The wetlands, groundwater monitoring wells, drainage system, gas vents, and landfill cap were visually inspected. Copies of the completed inspection checklists are provided in Appendix G.

A representative of the NYSDEC participated in the third quarter 2013 inspection. These inspections indicated that the site has a substantial vegetative cover and that the surface drainage system is in good condition. The lack of sediment buildup, ponded water, uncontrolled runoff, or slope instability indicates that the drainage system is adequate and operational. The access road is in good condition. The condition of the perimeter fence, gates, locks, and signs are sufficient to restrict access. The integrity of the groundwater monitoring wells, piezometers, and sumps were verified during the inspections. More specific information regarding the quarterly inspections are provided in the subsections below.

3.5.1 March 13, 2013 Inspection

The integrity of the cap was acceptable during the inspection. The condition of the fence, gates, locks, and access roads were acceptable and there was no evidence of trespassers or vandalism. The groundwater collection system, monitoring well, and sumps were in acceptable condition. One gas vent, GV-1, required replacement. The vent was replaced on April 5, 2013.

3.5.2 May 21, 2013 Inspection

The integrity of the cap and vegetative cover were acceptable during the inspection. The condition of the fence, gates, locks, and access roads were acceptable and there was no evidence of trespassers or vandalism. The groundwater collection system, monitoring well, and sumps were observed to be in acceptable condition.

3.5.3 September 10, 2013 Inspection

The integrity of the cap and vegetative cover were acceptable during the inspection. The condition of the fence, gates, locks, and access roads were acceptable and there was no evidence of trespassers or vandalism. The gas venting system, groundwater collection system, monitoring well, and sumps were observed to be in acceptable condition.

3.5.4 October 24, 2013 Inspection

The integrity of the cap and vegetative cover were acceptable during the inspection. The condition of the fence, gates, locks, and access roads were acceptable and there was no evidence of trespassers or vandalism. The gas venting system, groundwater collection system, monitoring well, and sumps were observed to be in acceptable condition.

3.5.5 January 15, 2014 Inspection

The integrity of the cap and vegetative cover were acceptable during the inspection. The condition of the fence, gates, locks, and access roads were acceptable and there was no evidence of trespassers or vandalism. The gas venting system, groundwater collection system, monitoring well, and sumps were observed to be in acceptable condition.

3.5.6 April 14, 2014 Inspection

The integrity of the cap and vegetative cover were acceptable during the inspection. The condition of the fence, gates, locks, and access roads were acceptable and there was no evidence of trespassers or vandalism. The gas venting system, groundwater collection system, monitoring well, and sumps were observed to be in acceptable condition.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions were developed based on the data collected during the 2013 OM&M period:

- Based on the results of the quarterly inspection reports, which verify that the integrity of the cap is adequate and vegetation is established, the remedy remains protective for direct contact with waste and impacted soils and sediments.
- Based on the evaluation of the collected groundwater elevation data, which indicates that impacted groundwater is flowing into the groundwater collection trench as designed, the remedy is preventing impacted groundwater from discharging into the adjacent wetlands.
- Based on the analytical results from BSA discharge monitoring, compounds in the discharge are within the BSA permit limits.

The following recommendations were developed based on the data collected during the 2013 OM&M period:

- BSA Discharge Monitoring – in accordance with the new BSA permit (Permit No. 12-12-BU98), discharge monitoring will continue on a semi-annual basis, with reports issued to BSA and copied to the NYSDEC.
- No further mitigation, monitoring, or reporting activities associated with the Wetland Mitigation Area are required. However, watering of the plants associated with the woody buffer will continue on an as needed basis if required due to drought conditions and maintenance of the protective snow fence will be conducted to protect against deer browsing.
- Groundwater Monitoring – Annual groundwater monitoring will be completed in 2014 from the same monitoring points used during prior monitoring events. Groundwater monitoring results will be reported in the next annual PRR submittal.
- Water Level Measurements – Water level measurements will continue on a quarterly basis, to be collected from site monitoring wells, piezometers, and sumps, consistent with the requirements presented in Table 2.2 of the OM&M Manual (Parsons, 2006). Collection of water level measurements will be conducted in conjunction with site inspections.
- Landfill Gas Monitoring – measurements of methane gas concentrations at gas vents GV-1, GV-2, GV-3, the four sump locations, and the four ground surface locations have been below the LEL since the third quarter of 2011. Consistent with the requirements set forth in the Operations, Maintenance, and Monitoring Manual (Parsons, 2006), landfill gas monitoring will be conducted on an annual basis.
- Surface Water Level Measurements – in conjunction with the site inspections, surface water levels will continue to be collected on a quarterly basis, using the top of the weir structure at the north end of Pond A as a reference.
- Site inspections will continue on a quarterly basis during 2014.

- Routine OM&M activities will continue on an approximate monthly basis, or more frequently as needed.

5.0 REFERENCES

- NYSDEC, 1997. Order on Consent between AlliedSignal, Inc. and NYSDEC, Index #B9-87-194, #B9-0358-91-2, Site Codes #9515054 and 915046B. December 1997.
- USACE, 2004. March 24, 2004, Application No. 98-976-0162(0), Nationwide Permit No. (38) as Published in the Federal Register, Volume 67, No. 10, on Tuesday, January 15, 2002, signed by Gary E. McDannell.
- Parsons, 2006. Operations, Maintenance, and Monitoring Manual for Alltift Landfill Site, NYSDEC Site No. 9-15-054 and Ramco Steel Site, NYSDEC Site No. 9-15-046B, Buffalo, New York. March 2006.
- Mactec, 2011a. July 1, 2011, Annual Wetland Mitigation Report “Year 5 of 5” for Alltift Landfill, Buffalo, New York, signed by Charles H. Lyman and John M. Scrabis.
- Mactec, 2011b. December 22, 2011, Work Plan – Corrective Action Activities Mitigation Wetland Area, Permit Application No. 98-976-0162(0), Alltift Landfill and Ramco Steel Sites Buffalo, New York, signed by Ryan T. Belcher and John M. Scrabis.
- Mactec, 2012. September 28, 2012, Corrective Action Completion Report, Wetland Mitigation Area – Permit 1998-9760162, Alltift Landfill and Ramco Steel Sites Buffalo, New York, signed by Ryan T. Belcher and Daniel Forlastro.

TABLES

TABLE 1
Summary of Groundwater Analytical Results -2013
2013 Annual OM&M Report
Alltift Landfill /Ramco Steel Site

Parameter Name	Units	NYSDEC Class GA Standards	MW-2-090913 9/9/2013	Sump 1-090913 9/9/2013	Sump 2-090913 9/9/2013	Sump 3-090913 9/9/2013	Sump 4-090913 9/9/2013	FDUP-090913 (Sump 4) 9/9/2013	Sump Comp-090913 9/9/2013
Metals (Dissolved)									
ANTIMONY	mg/L	0.003	0.00033 J	-- --	-- --	-- --	0.00051 J	0.00055 J	0.00083 J
ARSENIC	mg/L	0.025	0.0044	-- --	-- --	-- --	0.0117	0.0126	0.03
CADMIUM	mg/L	0.005	0.0001 J	-- --	-- --	-- --	0.000078 J	7.2e-005 J	0.00022 J
CHROMIUM	mg/L	0.05	0.0031 J	-- --	-- --	-- --	0.0035 J	0.0032 J	0.011
IRON	mg/L	0.3	2.3	-- --	-- --	-- --	10.9	10.8	13.7
LEAD	mg/L	0.025	0.005 U	-- --	-- --	-- --	0.005 U	0.0050 U	0.0050 U
MANGANESE	mg/L	0.3	0.58	-- --	-- --	-- --	3.4	3.4	3.2
MERCURY	mg/L	0.0007	0.0002 U	-- --	-- --	-- --	0.0002 U	0.00020 U	0.00020 U
Pesticides									
4,4'-DDE	ug/L	0.2	-- --	-- --	-- --	-- --	-- --	-- --	-- --
4,4'-DDD	ug/L	0.3	-- --	-- --	-- --	-- --	-- --	-- --	-- --
PCBs									
AROCLOR-1016	ug/L	0.09	-- --	-- --	-- --	-- --	-- --	-- --	-- --
AROCLOR-1221	ug/L	0.09	-- --	-- --	-- --	-- --	-- --	-- --	-- --
AROCLOR-1232	ug/L	0.09	-- --	-- --	-- --	-- --	-- --	-- --	-- --
AROCLOR-1242	ug/L	0.09	-- --	-- --	-- --	-- --	-- --	-- --	-- --
AROCLOR-1248	ug/L	0.09	-- --	-- --	-- --	-- --	-- --	-- --	-- --
AROCLOR-1254	ug/L	0.09	-- --	-- --	-- --	-- --	-- --	-- --	-- --
AROCLOR-1260	ug/L	0.09	-- --	-- --	-- --	-- --	-- --	-- --	-- --
VOCs									
BENZENE	ug/L	1	1.0 U	4.0 U	5.0 U	4.0 U	4.0 U	4.0 U	-- --
CHLOROBENZENE	ug/L	5	1.0 U	13	16	4.0 U	33	18	-- --
ETHYLBENZENE	ug/L	5	1.0 U	4.0 U	5.0 U	4.0 U	4.0 U	4.0 U	-- --
XYLENES, TOTAL	ug/L	5	2.0 U	8.0 U	10.0 U	8.0 U	8.0 U	8.0 U	-- --
1,2-DICHLOROBENZENE	ug/L	3	1.0 U	4.0 U	5.0 U	4.0 U	4.0 U	4.0 U	-- --
1,4-DICHLOROBENZENE	ug/L	3	1.0 U	4.0 U	5.0 U	4.0 U	4.0 U	4.0 U	-- --
SVOCs									
4-CHLOROANILINE	ug/L	5	7.1 U	-- --	-- --	-- --	4.7 U	4.7 U	4.8 U
NAPHTHALENE	ug/L	10	7.1 U	-- --	-- --	-- --	4.7 U	4.7 U	4.8 U

Note:
Bold - Detected during Laboratory Analysis
J - Analyte Detected Below Reporting Limit
B - Compound Was Found in the Blank and Sample
U - Analyte not detected
-- - Not Analyzed
DIL - Dilution Required for Analysis
E - Analyzed using E624/E625 Method
ND - Not Detected at the Reporting Limit
Shading indicates exceedance of NYSDEC Class GA Standard

TABLE 2
Quarterly Landfill Gas Monitoring Data - 2013 and 2014
2013 Annual OM&M Report
Alltiff Landfill/Ramco Steel Site

	First Quarter - 1/10/2013				Second Quarter - 5/21/2013				Third Quarter - 9/11/2013				Fourth Quarter - 10/24/2013				First Quarter - 3/18/2014			
Location:	CH ₄	CO ₂	O ₂	LEL CH ₄	CH ₄	CO ₂	O ₂	LEL CH ₄	CH ₄	CO ₂	O ₂	LEL CH ₄	CH ₄	CO ₂	O ₂	LEL CH ₄	CH ₄	CO ₂	O ₂	LEL CH ₄
GV-1	0.1%	0.0%	21.4%	3.0%	0.0%	0.0%	20.3%	0.0%	0.0%	0.0%	20.9%	1.0%	0.0%	0.0%	21.1%	1.0%	0.1%	0.1%	19.1%	1.0%
GV-2	0.1%	0.0%	21.3%	3.0%	0.0%	0.0%	20.2%	1.0%	0.0%	0.0%	20.4%	2.0%	0.0%	0.1%	20.8%	2.0%	0.1%	0.1%	18.9%	2.0%
GV-3	0.1%	0.0%	21.2%	4.0%	0.0%	0.0%	20.2%	0.0%	0.0%	0.0%	16.7%	0.0%	0.0%	0.9%	20.1%	0.0%	0.1%	0.1%	19.2%	2.0%
Ground #1	0.2%	0.0%	21.5%	4.0%	0.1%	0.0%	20.4%	2.0%	0.1%	0.0%	20.4%	2.0%	0.0%	0.1%	20.9%	0.0%	0.3%	0.2%	18.5%	4.0%
Ground #2	0.2%	0.0%	21.3%	4.0%	0.1%	0.0%	20.3%	1.0%	0.0%	0.0%	20.6%	0.0%	0.0%	0.1%	20.9%	0.0%	0.2%	0.2%	18.7%	4.0%
Ground #3	0.2%	0.0%	21.3%	3.0%	0.0%	0.0%	20.3%	1.0%	0.0%	0.0%	20.4%	0.0%	0.0%	0.1%	20.8%	0.0%	0.2%	0.2%	18.6%	4.0%
Ground #4	0.2%	0.0%	21.3%	3.0%	0.0%	0.0%	20.3%	2.0%	0.0%	0.0%	20.7%	0.0%	0.0%	0.0%	21.0%	0.0%	0.0%	0.1%	19.6%	3.0%
Sump #1	0.2%	0.0%	21.4%	4.0%	0.0%	0.0%	20.4%	1.0%	0.0%	0.0%	21.2%	0.0%	0.0%	0.1%	20.9%	0.0%	0.0%	0.0%	20.4%	0.0%
Sump #2	0.2%	0.0%	21.3%	4.0%	0.2%	0.1%	20.2%	4.0%	0.7%	17.0%	0.6%	15.0%	0.0%	0.1%	20.8%	0.0%	0.2%	0.4%	18.7%	2.0%
Sump #3	0.2%	0.0%	21.2%	3.0%	0.1%	0.0%	20.3%	2.0%	0.0%	0.0%	20.4%	0.0%	0.0%	0.1%	20.9%	0.0%	0.1%	0.2%	18.9%	3.0%
Sump #4	0.1%	0.0%	21.1%	3.0%	0.0%	0.0%	20.3%	1.0%	0.1%	0.1%	19.9%	0.0%	0.0%	0.1%	20.8%	0.0%	0.2%	0.2%	18.7%	4.0%

Notes:

Ground 1 - Monitoring location in the Northwest corner of Landfill

Ground 2 - Monitoring location on the West side of Landfill

Ground 3 - Monitoring location in the Southeast corner of Landfill

Ground 4 - Monitoring location in the Northeast corner of Landfill

LEL - Lower Explosive Limit

CH₄ - Methane

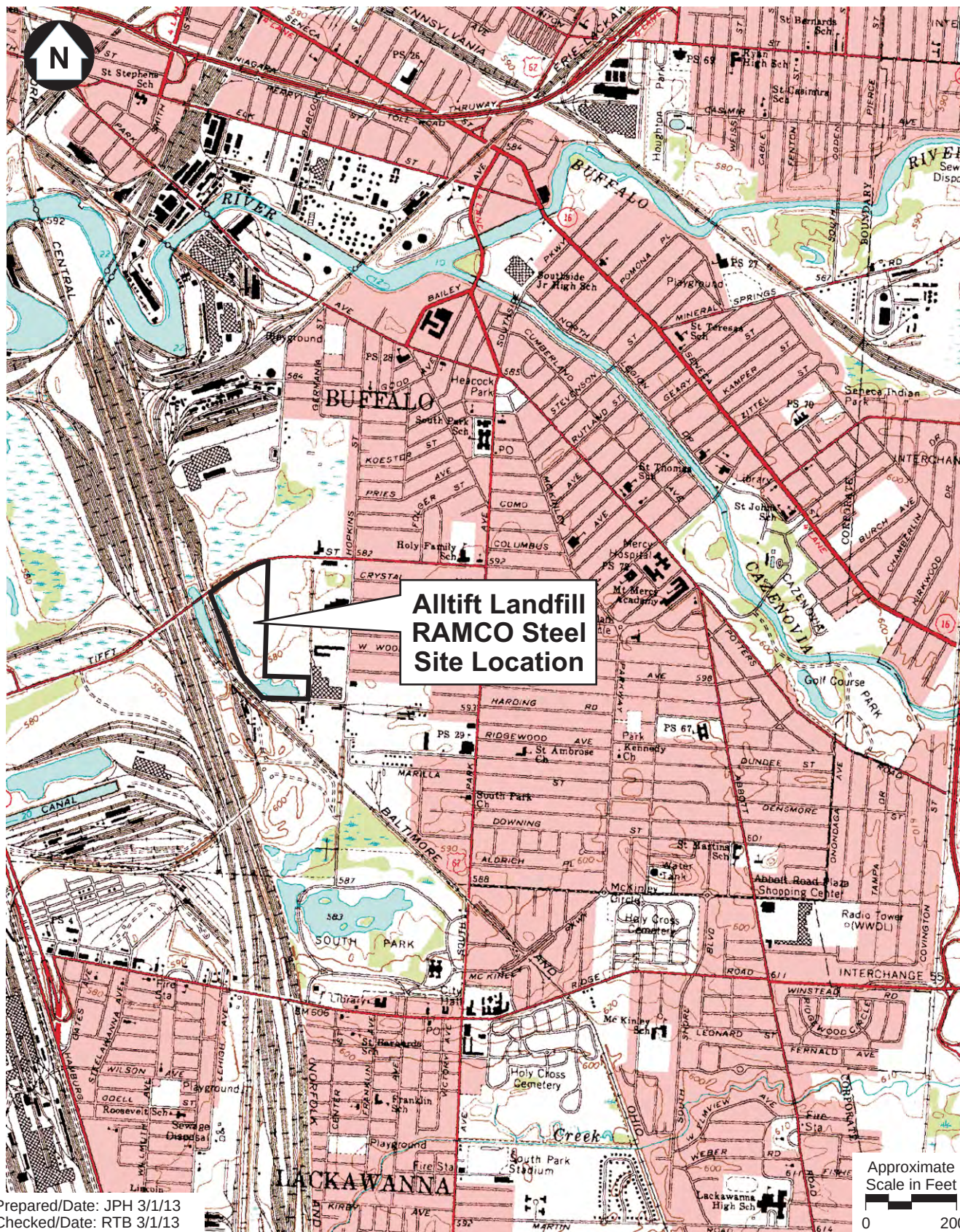
CO₂ - Carbon Dioxide

O₂ - Oxygen

APPENDIX A

SITE LOCATION AND CURRENT CONDITIONS SITE PLAN

FIGURES



Honeywell

amec

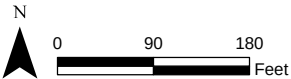
Site Location Map
Alltiff Landfill/Ramco Steel Site
Project No. 3410120905
Figure 1

Document: P:\Projects\Honeywell\O.M and M Team\Allitt Landfill\4.0 Project Deliverables\4.3 Drawings\GIS\MapDocuments\Allitt_Planting_Areas_as built_11x17P.mxd PDF: P:\Projects\Honeywell\O.M and M Team\Allitt Landfill\4.0 Project Deliverables\4.3 Drawings\GIS\Figures\March 2014\Figure 1 - Current Conditions Site Plan.pdf 03/25/2014 8:50 AM brian.peters



Legend

-  Planting Areas
-  Open Water
-  Deep Water Emergent
-  Wet Meadow Emergent
-  Coarse Woody Debris
-  Approximate Wetland Boundary



Prepared/Date: BRP 03/25/14
Checked/Date: RTB 03/25/14

HONEYWELL



Current Conditions
Site Plan
Project 3410120905

Figure 2

APPENDIX B

SEMI-ANNUAL DISCHARGE MONITORING REPORTS



CH2M HILL OMI
Syracuse Honeywell
1563 Willis Avenue
Syracuse, NY 13204
Tel 315.468.1663
Fax 315.468.1664

April 5, 2013

Ms. Traserra Adams
Buffalo Sewer Authority
Industrial Waste Section
90 West Ferry Street
Buffalo, New York 14213

Subject: **Alltft Landfill/Ramco Steel Site
Discharge Monitoring Report
2013 First Semi-Annual Report
Permit Number 12-12-BU098**

Dear Ms. Adams:

Enclosed please find the 2013 First Semi-Annual discharge monitoring report for the pumping facility located at the Alltft Landfill/Ramco Steel (Alltft) Site. The total flow to the Buffalo Sewer Authority (BSA) during this period was 2,002,100 gallons. The flow was measured from a totalizing meter within the lift station at the Alltft Site from October 5, 2012 through March 11, 2013 for a total of 159 days. Flow metering readings for the previous six (6) months are included as Attachment 1.

A time composite discharge sample was collected from within the pump station on March 11, 2013. Four samples were collected over an evenly-spaced work day period for VOCs, SVOCs, total cyanide, and total extractable hydrocarbons (oil and grease). The four samples were composited in the laboratory per BSA permit requirements. The sample for metals, total suspended solids, pesticides and polychlorinated biphenyls, total phosphorus, and pH was collected as a composite sample. A summary of the analytical results, compared to permit limits, is provided in Table 1. All parameters were in compliance with the BSA permit limits. The laboratory analytical report is provided as Attachment 2.

Special Requirement number 6 on page 4 of Part I of Permit Number 12-12-BU098 requires monitoring and reporting of the following parameters during the initial monitoring period: metals (Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, and Zinc), Total Cyanide, Total Extractable Hydrocarbons (oil and grease), Pesticides and Polychlorinated biphenyls, and Total Phosphorus. The permit requirement indicates that no further monitoring and reporting is required for those parameters not detected at or above the practical quantitation limit.

As detailed in the laboratory analytical report (Attachment 2), the analytical results for the following parameters were below the practical quantitation limit. Therefore, consistent with Special Requirement number 6 on page 4 of Part I of Permit Number 12-12-BU098, no further monitoring and reporting for these parameters will be conducted unless directed otherwise by the Buffalo Sewer Authority:

Ms. Traserra Adams

April 5, 2013

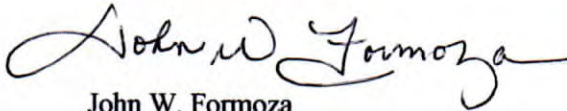
Page 2

- Cadmium
- Lead
- Mercury
- Selenium
- Silver
- Total Cyanide
- Total Extractable Hydrocarbons (oil and grease)
- Pesticides and Polychlorinated biphenyls

If you have any questions or require additional information, please contact me at (315) 468-1663.

Sincerely,

CH2M HILL OMI, INC.

A handwritten signature in black ink, reading "John W. Formoza". The signature is fluid and cursive, with the first name "John" and last name "Formoza" clearly legible.

John W. Formoza
Project Manager

QC Review By: Ryan Belcher (Amec Environment & Infrastructure)

cc.: Mr. Rich Galloway (Honeywell)
Mr. Maurice Moore (NYSDEC)
Mr. Dennis Sutton (City of Buffalo)
Mr. Dan Forlastro (Amec Environment & Infrastructure)

Table 1
Alliott Landfill/Ramco Steel Site
First Semi-annual Report for 2013
Discharge Monitoring Report

BSA Permit No. 12-12-BU98	March 11, 2013
Sample Date:	Onsite Pump Station to BSA
Sample Location:	

BSA Permit Parameter	Input Analytical Results			Converted Analytical Results			BSA Daily Max Discharge Limit		Permit Compliance
	Quantity	Qualifier	Reporting Limit	Unit	Quantity	Unit	Quantity	Unit	
pH	7.27		0.100	SU	7.27	SU	5.0 - 12.0	SU	Yes
Benzene	ND		50	µg/L	ND	lbs/day	0.068	lbs/day	Yes
Chlorobenzene	56		50	µg/L	0.006	lbs/day	0.148	lbs/day	Yes
4-Chloroaniline	19		5.0	µg/L	0.002	lbs/day	0.048	lbs/day	Yes
Naphtalene	0.94	J	5.0	µg/L	0.0001	lbs/day	0.048	lbs/day	Yes
Arsenic	0.015		0.010	mg/L	0.002	lbs/day	0.864	lbs/day	Yes
Barium	0.27		0.002	mg/L	0.03	lbs/day	0.48	lbs/day	Yes
Cadmium	0.00058	J	0.001	mg/L	0.0001	lbs/day	0.48	lbs/day	Yes
Chromium	0.0084		0.004	mg/L	0.001	lbs/day	2.4	lbs/day	Yes
Copper	0.019	B	0.010	mg/L	0.002	lbs/day	7.68	lbs/day	Yes
Lead	0.0042	J	0.005	mg/L	0.0004	lbs/day	2.4	lbs/day	Yes
Mercury	ND		0.0002	mg/L	ND	lbs/day	0.000024	lbs/day	Yes
Nickel	0.016		0.010	mg/L	0.0017	lbs/day	6.72	lbs/day	Yes
Selenium	ND		0.015	mg/L	ND	lbs/day	0.48	lbs/day	Yes
Silver	ND		0.003	mg/L	ND	lbs/day	1.056	lbs/day	Yes
Zinc	0.014		0.010	mg/L	0.0015	lbs/day	12	lbs/day	Yes
Total Cyanide	0.0050	J	0.010	mg/L	0.0005	lbs/day	3.16	lbs/day	Yes
Total Suspended Solids	28.8		4.0	mg/L	28.8	mg/L	250	mg/L	Yes
Total Phosphorus	0.33		0.05	mg/L					
PCBs	ND		0.057	µg/L					
Pesticides	0.0086 - 0.015	J	0.047	µg/L					
Total Extractable Hydrocarbons (Oil and Grease)	ND		5.0	µg/L					
USEPA Test Method 624	ND - 56			µg/L					
USEPA Test Method 625	ND - 19			µg/L					
Total Flow (average)	8.74			gpm	12,592	gpd	57,600	gpd	Yes

Notes:

J - estimated value below Reporting Limit/Practical Quantitation Limit
 B - Compound was found in the blank and sample.

µg/L - micrograms per liter
 mg/L - milligrams per liter

ND - Not detected at the reporting limit

Monitor Only

Flow Calculations	Meter		
Initial Reading (pump station)	6746400	10/5/2012	
Final Reading (pump station)	8748500	3/13/2013	
Total Days in Period		159	
Total Flow for Period	2,002,100	8.74	gallons
Average Flow for Period			gpm

Prepared by, Date: J. Formoza, 3/27/2013
 Checked by, Date: B. LaForest, 3/27/2013

Attachment 1 - Flow Meter Readings

Buffalo Altitft Lift Station	
Date	Totalizer Reading (gallons)
9/13/2012	6,497,300
10/5/2012	6,746,400
10/22/2012	6,842,700
10/31/2012	6,927,300
11/20/2012	7,189,500
12/19/2012	7,594,600
1/10/2013	7,890,400
2/14/2013	8,471,800
3/13/2013	8,748,500



CH2M HILL OMI
Syracuse Honeywell
1563 Willis Avenue
Syracuse, NY 13204
Tel 315.468.1663
Fax 315.468.1664

October 3, 2013

Ms. Traserra Adams
Buffalo Sewer Authority
Industrial Waste Section
90 West Ferry Street
Buffalo, New York 14213

Subject: **Alltift Landfill/Ramco Steel Site
Discharge Monitoring Report
2013 Second Semi-Annual Report
Permit Number 12-12-BU098**

Dear Ms. Adams:

Enclosed please find the 2013 Second Semi-Annual discharge monitoring report for the pumping facility located at the Alltift Landfill/Ramco Steel (Alltift) Site. The total flow to the Buffalo Sewer Authority (BSA) during this period was 1,628,040 gallons. The flow was measured from a totalizing meter within the lift station at the Alltift Site from March 13, 2013 through September 09, 2013 for a total of 180 days. Flow metering readings for the previous six (6) months are included as Attachment 1.

A time composite discharge sample was collected from within the pump station on September 09, 2013. Four samples were collected over an evenly-spaced work day period for VOCs and SVOCs. The four samples were composited in the laboratory per BSA permit requirements. The sample for metals, total suspended solids, total phosphorus, and pH was collected as a composite sample. A summary of the analytical results, compared to permit limits, is provided in Table 1. All parameters were in compliance with the BSA permit limits. The laboratory analytical report is provided as Attachment 2. The sampled parameters are consistent with the permit requirements as modified by the BSA's letter dated July 24, 2013 (Attachment 3) authorizing a reduction in parameters.

If you have any questions or require additional information, please contact me at (315) 468-1663.

Sincerely,

CH2M HILL OMI, INC.

A handwritten signature in blue ink that reads "John W. Formoza".

John W. Formoza
Project Manager

QC Review By: Ryan Belcher (Amec Environment & Infrastructure)

cc.: Mr. Rich Galloway (Honeywell)
Mr. Maurice Moore (NYSDEC)
Mr. Dennis Sutton (City of Buffalo)
Mr. Dan Forlastro (Amec Environment & Infrastructure)

Table 1
Altift Landfill/Ramco Steel Site
Second Semi-annual Report for 2013
Discharge Monitoring Report

BSA Permit No. 12-12-BU98	September 9, 2013
Sample Date:	Onsite Pump Station to BSA
Sample Location:	

BSA Permit Parameter	Input Analytical Results			Converted Analytical Results		BSA Daily Max Discharge Limit		Permit Compliance
	Quantity	Qualifier	Reporting Limit	Unit	Quantity	Unit	Quantity	Unit
pH	7.72	HF	0.100	SU	7.72	SU	5.0 - 12.0	SU
Benzene	2.7	J	20	µg/L	0.0002	lbs/day	0.068	lbs/day
Chlorobenzene	35		20	µg/L	0.003	lbs/day	0.148	lbs/day
4-Chloroaniline	ND		5.0	µg/L	ND	lbs/day	0.048	lbs/day
Naphthalene	4.10	J	5.0	µg/L	0.0003	lbs/day	0.048	lbs/day
Arsenic	0.0057	J	0.010	mg/L	0.000	lbs/day	0.864	lbs/day
Barium	0.28		0.002	mg/L	0.02	lbs/day	0.48	lbs/day
Chromium	0.0067		0.004	mg/L	0.001	lbs/day	2.4	lbs/day
Copper	0.022		0.010	mg/L	0.002	lbs/day	7.68	lbs/day
Nickel	0.014		0.010	mg/L	0.0011	lbs/day	6.72	lbs/day
Zinc	0.0043	J	0.010	mg/L	0.0003	lbs/day	12	lbs/day
Total Suspended Solids	5.2		4.0	mg/L	5.2	mg/L	250	mg/L
Total Phosphorus	0.30		0.05	mg/L	Monitor Only			
USEPA Test Method 624	ND - 35			µg/L				
USEPA Test Method 625	ND - 4.1	J		µg/L				
Total Flow (average)	6.28			gpm	9.045	gpd	57,600	gpd

Notes:

J - estimated value below Reporting Limit/Practical Quantitation Limit

µg/L - micrograms per liter

mg/L - milligrams per liter

ND - Not detected at the reporting limit

Flow Calculations (see note1)	Old Meter	New Meter	
Initial Reading (pump station)	8748500		3/13/2013
Final Reading/Initial Reading (pump station)	9410640	0	5/21/2013
Final Reading (pump station)		965900	9/9/2013
Total Days in Period		180	
Total Flow for Period	662,140	965,900	1,628,040 gallons
Average Flow for Period			6.28 gpm

Note1: A new flow meter was installed on May 21, 2013, at which time the flow totalizing meter reading was 9410640.

Attachment 1 – Flow Meter Readings

Buffalo Alltiff Lift Station	
Date	Totalizer Reading (gallons)
3/13/2013	8,748,500
5/21/2013	9,410,640
5/21/2013	0
7/2/2013	356,500
9/11/2013	965,900

New flow meter installed on 5/21/13



July 24, 2013

ADMINISTRATIVE OFFICES
1038 CITY HALL
65 NIAGARA SQUARE
BUFFALO, NY 14202-3378
PHONE: (716) 851-4664
FAX: (716) 856-5810

WASTEWATER TREATMENT PLANT
FOOT OF WEST FERRY
90 WEST FERRY STREET
BUFFALO, NY 14213-1799
PHONE: (716) 883-1820

Ryan Belcher, Senior Engineer
AMEC Environment & Infrastructure
511 Congress Street, Suite 200
Portland, ME 04101



Re: Monitoring Requirements

Dear Mr. Belcher:

On April 9, 2013, the Buffalo Sewer Authority received the first 2013 semi-annual self-monitoring report for the pumping facility located at the Alltft Landfill/Ramco Steel Site. The facility was determined to be in compliance with its 12-12-BU098 Industrial Discharge Permit.

Let this letter serve as written confirmation that, pursuant to Special Requirement number 6 of their current permit, monitoring for the following parameters is not required in subsequent monitoring reports:

Cadmium
Lead
Mercury
Selenium
Silver
Total Cyanide
Total Extractable Hydrocarbons (oil and grease); and
Pesticides and Polychlorinated biphenyls.

If you have any questions, please do not hesitate to contact me directly at 716-851-4664, ext. 5250 or Traserra at ext. 5255.

Very truly yours,

BUFFALO SEWER AUTHORITY

Leslie Sedita
Industrial Waste Administrator

LS:bs

cc: J. W. Formoza (CH2M HILL OMI)
M. Letina
T. Adams



July 24, 2013

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Silver
Total Cyanide
Total Extractable Hydrocarbons (oil and grease); and
Pesticides and Polychlorinated biphenyls.

If you have any questions, please do not hesitate to contact me directly at 716-851-4664, ext. 5250 or Traserra at ext. 5255.

Very truly yours,

BUFFALO SEWER AUTHORITY

Leslie Sedita
Industrial Waste Administrator

LS:bs

cc: J. W. Formoza (CH2M HILL OMI)
M. Letina
T. Adams

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-34142-1

Client Project/Site: Honeywell - Buffalo (Alltiff) - 30130

For:

Honeywell International Inc

101 Columbia Road

Morristown, New Jersey 07962

Attn: Mr. Rich Galloway



Authorized for release by:

3/25/2013 2:27:16 PM

John Schove

Project Manager I

john.schove@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Job ID: 480-34142-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-34142-1

Comments

No additional comments.

Receipt

The samples were received on 3/11/2013 1:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.0° C, 2.7° C and 3.2° C.

GC/MS VOA

Method(s) 624: The following sample was composited by the laboratory on 3/12/13 as requested on the chain-of-custody: Grab 1-4 031113 (480-34142-7).

Method(s) 624: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: Grab 1-4 031113 (480-34142-7). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC/MS Semi VOA

No analytical or quality issues were noted.

GC Semi VOA

Method(s) 608 PCB: All primary data is reported from the ZB-5 column.

Method(s) 608 Pesticide: The continuing calibration verification (CCV) for alpha-BHC associated with batch 107106 recovered above the upper control limit. The sample associated with this CCV was below reporting limit for the affected analyte; therefore, the data have been reported.

Method(s) 608 Pesticide: All primary data is reported from the RTX-CLPII column.

No other analytical or quality issues were noted.

Metals

Method(s) 200.7 Rev 4.4: The Method Blank for batch 480-106837 contained total copper above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of sample COMP 031113 (480-34142-5) was not performed.

No other analytical or quality issues were noted.

General Chemistry

Method(s) SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: COMP 031113 (480-34142-5)

Method(s) 1664A: The following sample was composited by the laboratory as requested on the chain-of-custody: Grab 1-4 031113 (480-34142-7).

Method(s) 335.4: The following sample was composited by the laboratory as requested on the chain-of-custody: Grab 1-4 031113 (480-34142-7).

No other analytical or quality issues were noted.

Organic Prep

Method(s): The following samples were composited by the laboratory on 3/13/13 as requested on the chain-of-custody: (480-34142-7)

Case Narrative

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Job ID: 480-34142-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

MS), (480-34142-7 MSD), Grab 1-4 031113 (480-34142-7).

No other analytical or quality issues were noted.

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Detection Summary

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltft) - 30130

TestAmerica Job ID: 480-34142-1

Client Sample ID: COMP 031113

Lab Sample ID: 480-34142-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
alpha-BHC	0.0086	J	0.047	0.0062	ug/L	1		608	Total/NA
4,4'-DDD	0.011	J	0.047	0.0087	ug/L	1		608	Total/NA
Dieldrin	0.010	J	0.047	0.0092	ug/L	1		608	Total/NA
Endosulfan I	0.015	J	0.047	0.010	ug/L	1		608	Total/NA
Arsenic	0.015		0.010	0.0056	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.27		0.0020	0.00070	mg/L	1		200.7 Rev 4.4	Total/NA
Cadmium	0.00058	J	0.0010	0.00050	mg/L	1		200.7 Rev 4.4	Total/NA
Chromium	0.0084		0.0040	0.0010	mg/L	1		200.7 Rev 4.4	Total/NA
Copper	0.019	B	0.010	0.0016	mg/L	1		200.7 Rev 4.4	Total/NA
Lead	0.0042	J	0.0050	0.0030	mg/L	1		200.7 Rev 4.4	Total/NA
Nickel	0.016		0.010	0.0013	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.014		0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Phosphorus, Total	0.33		0.050	0.025	mg/L	5		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	28.8		4.0	4.0	mg/L	1		SM 2540D	Total/NA
pH	7.27	HF	0.100	0.100	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: TB_031113

Lab Sample ID: 480-34142-6

No Detections.

Client Sample ID: Grab 1-4 031113

Lab Sample ID: 480-34142-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	56		50	4.8	ug/L	10		624	Total/NA
1,2-Dichlorobenzene	0.57	J	10	0.15	ug/L	1		625	Total/NA
1,3-Dichlorobenzene	0.34	J	10	0.069	ug/L	1		625	Total/NA
1,4-Dichlorobenzene	0.83	J	10	0.090	ug/L	1		625	Total/NA
4-Chloroaniline	19		5.0	0.69	ug/L	1		625	Total/NA
Acenaphthene	0.46	J	5.0	0.060	ug/L	1		625	Total/NA
Naphthalene	0.94	J	5.0	0.080	ug/L	1		625	Total/NA
N-Nitrosodiphenylamine	1.2	J	5.0	0.40	ug/L	1		625	Total/NA
Cyanide, Total	0.0050	J	0.010	0.0050	mg/L	1		335.4	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Client Sample ID: COMP 031113

Lab Sample ID: 480-34142-5

Date Collected: 03/11/13 13:15

Matrix: Water

Date Received: 03/11/13 13:55

Method: 608 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.047	0.0062	ug/L		03/12/13 14:31	03/13/13 12:33	1
alpha-BHC	0.0086	J	0.047	0.0062	ug/L		03/12/13 14:31	03/13/13 12:33	1
beta-BHC	ND		0.047	0.023	ug/L		03/12/13 14:31	03/13/13 12:33	1
delta-BHC	ND		0.047	0.0094	ug/L		03/12/13 14:31	03/13/13 12:33	1
gamma-BHC (Lindane)	ND		0.047	0.0057	ug/L		03/12/13 14:31	03/13/13 12:33	1
Chlordane (technical)	ND		0.47	0.027	ug/L		03/12/13 14:31	03/13/13 12:33	1
4,4'-DDD	0.011	J	0.047	0.0087	ug/L		03/12/13 14:31	03/13/13 12:33	1
4,4'-DDE	ND		0.047	0.011	ug/L		03/12/13 14:31	03/13/13 12:33	1
4,4'-DDT	ND		0.047	0.010	ug/L		03/12/13 14:31	03/13/13 12:33	1
Dieldrin	0.010	J	0.047	0.0092	ug/L		03/12/13 14:31	03/13/13 12:33	1
Endosulfan I	0.015	J	0.047	0.010	ug/L		03/12/13 14:31	03/13/13 12:33	1
Endosulfan II	ND		0.047	0.011	ug/L		03/12/13 14:31	03/13/13 12:33	1
Endosulfan sulfate	ND		0.047	0.015	ug/L		03/12/13 14:31	03/13/13 12:33	1
Endrin	ND		0.047	0.013	ug/L		03/12/13 14:31	03/13/13 12:33	1
Endrin aldehyde	ND		0.047	0.015	ug/L		03/12/13 14:31	03/13/13 12:33	1
Heptachlor	ND		0.047	0.0080	ug/L		03/12/13 14:31	03/13/13 12:33	1
Heptachlor epoxide	ND		0.047	0.0050	ug/L		03/12/13 14:31	03/13/13 12:33	1
Toxaphene	ND		0.47	0.11	ug/L		03/12/13 14:31	03/13/13 12:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	51		15 - 125				03/12/13 14:31	03/13/13 12:33	1
Tetrachloro-m-xylene	66		36 - 121				03/12/13 14:31	03/13/13 12:33	1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.057	0.036	ug/L		03/12/13 14:47	03/13/13 12:46	1
PCB-1221	ND		0.057	0.036	ug/L		03/12/13 14:47	03/13/13 12:46	1
PCB-1232	ND		0.057	0.036	ug/L		03/12/13 14:47	03/13/13 12:46	1
PCB-1242	ND		0.057	0.036	ug/L		03/12/13 14:47	03/13/13 12:46	1
PCB-1248	ND		0.057	0.036	ug/L		03/12/13 14:47	03/13/13 12:46	1
PCB-1254	ND		0.057	0.029	ug/L		03/12/13 14:47	03/13/13 12:46	1
PCB-1260	ND		0.057	0.029	ug/L		03/12/13 14:47	03/13/13 12:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	56		10 - 158				03/12/13 14:47	03/13/13 12:46	1
Tetrachloro-m-xylene	85		18 - 146				03/12/13 14:47	03/13/13 12:46	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.015		0.010	0.0056	mg/L		03/12/13 06:50	03/12/13 17:00	1
Barium	0.27		0.0020	0.00070	mg/L		03/12/13 06:50	03/12/13 17:00	1
Cadmium	0.00058	J	0.0010	0.00050	mg/L		03/12/13 06:50	03/12/13 17:00	1
Chromium	0.0084		0.0040	0.0010	mg/L		03/12/13 06:50	03/12/13 17:00	1
Copper	0.019	B	0.010	0.0016	mg/L		03/12/13 06:50	03/12/13 17:00	1
Lead	0.0042	J	0.0050	0.0030	mg/L		03/12/13 06:50	03/12/13 17:00	1
Nickel	0.016		0.010	0.0013	mg/L		03/12/13 06:50	03/12/13 17:00	1
Selenium	ND		0.015	0.0087	mg/L		03/12/13 06:50	03/12/13 17:00	1
Silver	ND		0.0030	0.0017	mg/L		03/12/13 06:50	03/12/13 17:00	1
Zinc	0.014		0.010	0.0015	mg/L		03/12/13 06:50	03/12/13 17:00	1

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Client Sample ID: COMP 031113

Lab Sample ID: 480-34142-5

Date Collected: 03/11/13 13:15

Matrix: Water

Date Received: 03/11/13 13:55

Method: 245.1 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/12/13 08:15	03/12/13 11:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	0.33		0.050	0.025	mg/L			03/14/13 14:26	5
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	28.8		4.0	4.0	mg/L			03/11/13 21:43	1
pH	7.27	HF	0.100	0.100	SU			03/11/13 22:10	1

Client Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltft) - 30130

TestAmerica Job ID: 480-34142-1

Client Sample ID: TB_031113

Lab Sample ID: 480-34142-6

Date Collected: 03/11/13 13:20

Matrix: Water

Date Received: 03/11/13 13:55

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/12/13 14:40	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/12/13 14:40	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/12/13 14:40	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/12/13 14:40	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/12/13 14:40	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/12/13 14:40	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/12/13 14:40	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/12/13 14:40	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/12/13 14:40	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/12/13 14:40	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/12/13 14:40	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/12/13 14:40	1
Acrolein	ND		100	17	ug/L			03/12/13 14:40	1
Acrylonitrile	ND		25	1.9	ug/L			03/12/13 14:40	1
Benzene	ND		5.0	0.60	ug/L			03/12/13 14:40	1
Bromoform	ND		5.0	0.47	ug/L			03/12/13 14:40	1
Bromomethane	ND		5.0	1.2	ug/L			03/12/13 14:40	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/12/13 14:40	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/12/13 14:40	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			03/12/13 14:40	1
Chloroethane	ND		5.0	0.87	ug/L			03/12/13 14:40	1
Chloroform	ND		5.0	0.54	ug/L			03/12/13 14:40	1
Chloromethane	ND		5.0	0.64	ug/L			03/12/13 14:40	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/12/13 14:40	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			03/12/13 14:40	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/12/13 14:40	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/12/13 14:40	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/12/13 14:40	1
Toluene	ND		5.0	0.45	ug/L			03/12/13 14:40	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			03/12/13 14:40	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/12/13 14:40	1
Trichloroethene	ND		5.0	0.60	ug/L			03/12/13 14:40	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/12/13 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		72 - 130		03/12/13 14:40	1
4-Bromofluorobenzene (Surr)	95		69 - 121		03/12/13 14:40	1
Toluene-d8 (Surr)	94		70 - 123		03/12/13 14:40	1

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Client Sample ID: Grab 1-4 031113

Lab Sample ID: 480-34142-7

Date Collected: 03/11/13 13:00

Matrix: Water

Date Received: 03/11/13 13:55

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		50	3.9	ug/L			03/12/13 15:04	10
1,1,2,2-Tetrachloroethane	ND		50	2.6	ug/L			03/12/13 15:04	10
1,1,2-Trichloroethane	ND		50	4.8	ug/L			03/12/13 15:04	10
1,1-Dichloroethane	ND		50	5.9	ug/L			03/12/13 15:04	10
1,1-Dichloroethene	ND		50	8.5	ug/L			03/12/13 15:04	10
1,2-Dichlorobenzene	ND		50	4.4	ug/L			03/12/13 15:04	10
1,2-Dichloroethane	ND		50	6.0	ug/L			03/12/13 15:04	10
1,2-Dichloroethene, Total	ND		100	32	ug/L			03/12/13 15:04	10
1,2-Dichloropropane	ND		50	6.1	ug/L			03/12/13 15:04	10
1,3-Dichlorobenzene	ND		50	5.4	ug/L			03/12/13 15:04	10
1,4-Dichlorobenzene	ND		50	5.1	ug/L			03/12/13 15:04	10
2-Chloroethyl vinyl ether	ND		250	19	ug/L			03/12/13 15:04	10
Acrolein	ND		1000	170	ug/L			03/12/13 15:04	10
Acrylonitrile	ND		250	19	ug/L			03/12/13 15:04	10
Benzene	ND		50	6.0	ug/L			03/12/13 15:04	10
Bromoform	ND		50	4.7	ug/L			03/12/13 15:04	10
Bromomethane	ND		50	12	ug/L			03/12/13 15:04	10
Carbon tetrachloride	ND		50	5.1	ug/L			03/12/13 15:04	10
Chlorobenzene	56		50	4.8	ug/L			03/12/13 15:04	10
Chlorodibromomethane	ND		50	4.1	ug/L			03/12/13 15:04	10
Chloroethane	ND		50	8.7	ug/L			03/12/13 15:04	10
Chloroform	ND		50	5.4	ug/L			03/12/13 15:04	10
Chloromethane	ND		50	6.4	ug/L			03/12/13 15:04	10
cis-1,3-Dichloropropene	ND		50	3.3	ug/L			03/12/13 15:04	10
Dichlorobromomethane	ND		50	5.4	ug/L			03/12/13 15:04	10
Ethylbenzene	ND		50	4.6	ug/L			03/12/13 15:04	10
Methylene Chloride	ND		50	8.1	ug/L			03/12/13 15:04	10
Tetrachloroethene	ND		50	3.4	ug/L			03/12/13 15:04	10
Toluene	ND		50	4.5	ug/L			03/12/13 15:04	10
trans-1,2-Dichloroethene	ND		50	5.9	ug/L			03/12/13 15:04	10
trans-1,3-Dichloropropene	ND		50	4.4	ug/L			03/12/13 15:04	10
Trichloroethene	ND		50	6.0	ug/L			03/12/13 15:04	10
Vinyl chloride	ND		50	7.5	ug/L			03/12/13 15:04	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		72 - 130		03/12/13 15:04	10
4-Bromofluorobenzene (Surr)	95		69 - 121		03/12/13 15:04	10
Toluene-d8 (Surr)	93		70 - 123		03/12/13 15:04	10

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.49	ug/L		03/13/13 07:30	03/14/13 16:24	1
1,2-Dichlorobenzene	0.57	J	10	0.15	ug/L		03/13/13 07:30	03/14/13 16:24	1
1,2-Diphenylhydrazine	ND		10	0.063	ug/L		03/13/13 07:30	03/14/13 16:24	1
1,3-Dichlorobenzene	0.34	J	10	0.069	ug/L		03/13/13 07:30	03/14/13 16:24	1
1,4-Dichlorobenzene	0.83	J	10	0.090	ug/L		03/13/13 07:30	03/14/13 16:24	1
2,4,6-Trichlorophenol	ND		5.0	0.23	ug/L		03/13/13 07:30	03/14/13 16:24	1
2,4-Dichlorophenol	ND		5.0	0.30	ug/L		03/13/13 07:30	03/14/13 16:24	1
2,4-Dimethylphenol	ND		5.0	0.13	ug/L		03/13/13 07:30	03/14/13 16:24	1
2,4-Dinitrophenol	ND		10	0.84	ug/L		03/13/13 07:30	03/14/13 16:24	1

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltft) - 30130

TestAmerica Job ID: 480-34142-1

Client Sample ID: Grab 1-4 031113

Lab Sample ID: 480-34142-7

Date Collected: 03/11/13 13:00

Matrix: Water

Date Received: 03/11/13 13:55

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		5.0	0.26	ug/L		03/13/13 07:30	03/14/13 16:24	1
2,6-Dinitrotoluene	ND		5.0	0.72	ug/L		03/13/13 07:30	03/14/13 16:24	1
2-Chloronaphthalene	ND		5.0	0.068	ug/L		03/13/13 07:30	03/14/13 16:24	1
2-Chlorophenol	ND		5.0	0.16	ug/L		03/13/13 07:30	03/14/13 16:24	1
2-Nitrophenol	ND		5.0	0.14	ug/L		03/13/13 07:30	03/14/13 16:24	1
3,3'-Dichlorobenzidine	ND		5.0	0.82	ug/L		03/13/13 07:30	03/14/13 16:24	1
4,6-Dinitro-2-methylphenol	ND		10	0.76	ug/L		03/13/13 07:30	03/14/13 16:24	1
4-Bromophenyl phenyl ether	ND		5.0	0.11	ug/L		03/13/13 07:30	03/14/13 16:24	1
4-Chloro-3-methylphenol	ND		5.0	0.56	ug/L		03/13/13 07:30	03/14/13 16:24	1
4-Chloroaniline	19		5.0	0.69	ug/L		03/13/13 07:30	03/14/13 16:24	1
4-Chlorophenyl phenyl ether	ND		5.0	0.21	ug/L		03/13/13 07:30	03/14/13 16:24	1
4-Nitrophenol	ND		10	1.3	ug/L		03/13/13 07:30	03/14/13 16:24	1
Acenaphthene	0.46	J	5.0	0.060	ug/L		03/13/13 07:30	03/14/13 16:24	1
Acenaphthylene	ND		5.0	0.034	ug/L		03/13/13 07:30	03/14/13 16:24	1
Anthracene	ND		5.0	0.052	ug/L		03/13/13 07:30	03/14/13 16:24	1
Benzidine	ND		80	2.5	ug/L		03/13/13 07:30	03/14/13 16:24	1
Benzo[a]anthracene	ND		5.0	0.043	ug/L		03/13/13 07:30	03/14/13 16:24	1
Benzo[a]pyrene	ND		5.0	0.058	ug/L		03/13/13 07:30	03/14/13 16:24	1
Benzo[b]fluoranthene	ND		5.0	0.062	ug/L		03/13/13 07:30	03/14/13 16:24	1
Benzo[g,h,i]perylene	ND		5.0	0.10	ug/L		03/13/13 07:30	03/14/13 16:24	1
Benzo[k]fluoranthene	ND		5.0	0.042	ug/L		03/13/13 07:30	03/14/13 16:24	1
bis (2-chloroisopropyl) ether	ND		5.0	0.086	ug/L		03/13/13 07:30	03/14/13 16:24	1
Bis(2-chloroethoxy)methane	ND		5.0	0.085	ug/L		03/13/13 07:30	03/14/13 16:24	1
Bis(2-chloroethyl)ether	ND		5.0	1.1	ug/L		03/13/13 07:30	03/14/13 16:24	1
Bis(2-ethylhexyl) phthalate	ND		10	0.86	ug/L		03/13/13 07:30	03/14/13 16:24	1
Butyl benzyl phthalate	ND		5.0	1.3	ug/L		03/13/13 07:30	03/14/13 16:24	1
Chrysene	ND		5.0	0.036	ug/L		03/13/13 07:30	03/14/13 16:24	1
Dibenz(a,h)anthracene	ND		5.0	0.055	ug/L		03/13/13 07:30	03/14/13 16:24	1
Diethyl phthalate	ND		5.0	0.17	ug/L		03/13/13 07:30	03/14/13 16:24	1
Dimethyl phthalate	ND		5.0	0.17	ug/L		03/13/13 07:30	03/14/13 16:24	1
Di-n-butyl phthalate	ND		5.0	0.94	ug/L		03/13/13 07:30	03/14/13 16:24	1
Di-n-octyl phthalate	ND		5.0	4.5	ug/L		03/13/13 07:30	03/14/13 16:24	1
Fluoranthene	ND		5.0	0.11	ug/L		03/13/13 07:30	03/14/13 16:24	1
Fluorene	ND		5.0	0.043	ug/L		03/13/13 07:30	03/14/13 16:24	1
Hexachlorobenzene	ND		5.0	0.28	ug/L		03/13/13 07:30	03/14/13 16:24	1
Hexachlorobutadiene	ND		5.0	0.62	ug/L		03/13/13 07:30	03/14/13 16:24	1
Hexachlorocyclopentadiene	ND		5.0	0.45	ug/L		03/13/13 07:30	03/14/13 16:24	1
Hexachloroethane	ND		5.0	0.48	ug/L		03/13/13 07:30	03/14/13 16:24	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.19	ug/L		03/13/13 07:30	03/14/13 16:24	1
Isophorone	ND		5.0	0.16	ug/L		03/13/13 07:30	03/14/13 16:24	1
Naphthalene	0.94	J	5.0	0.080	ug/L		03/13/13 07:30	03/14/13 16:24	1
Nitrobenzene	ND		5.0	0.11	ug/L		03/13/13 07:30	03/14/13 16:24	1
N-Nitrosodimethylamine	ND		10	0.96	ug/L		03/13/13 07:30	03/14/13 16:24	1
N-Nitrosodi-n-propylamine	ND		5.0	0.23	ug/L		03/13/13 07:30	03/14/13 16:24	1
N-Nitrosodiphenylamine	1.2	J	5.0	0.40	ug/L		03/13/13 07:30	03/14/13 16:24	1
Pentachlorophenol	ND		10	0.41	ug/L		03/13/13 07:30	03/14/13 16:24	1
Phenanthrene	ND		5.0	0.071	ug/L		03/13/13 07:30	03/14/13 16:24	1
Phenol	ND		5.0	0.12	ug/L		03/13/13 07:30	03/14/13 16:24	1
Pyrene	ND		5.0	0.041	ug/L		03/13/13 07:30	03/14/13 16:24	1

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Client Sample ID: Grab 1-4 031113

Lab Sample ID: 480-34142-7

Date Collected: 03/11/13 13:00

Matrix: Water

Date Received: 03/11/13 13:55

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	93		52 - 151	03/13/13 07:30	03/14/13 16:24	1
2-Fluorobiphenyl	79		44 - 120	03/13/13 07:30	03/14/13 16:24	1
2-Fluorophenol	43		17 - 120	03/13/13 07:30	03/14/13 16:24	1
Nitrobenzene-d5	83		42 - 120	03/13/13 07:30	03/14/13 16:24	1
Phenol-d5	31		10 - 120	03/13/13 07:30	03/14/13 16:24	1
p-Terphenyl-d14	65		22 - 125	03/13/13 07:30	03/14/13 16:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.0	1.4	mg/L		03/21/13 01:41	03/21/13 02:07	1
Cyanide, Total	0.0050	J	0.010	0.0050	mg/L		03/20/13 17:30	03/20/13 21:00	1

Surrogate Summary

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (72-130)	BFB (69-121)	TOL (70-123)
480-34142-6	TB_031113	100	95	94
480-34142-7	Grab 1-4 031113	98	95	93
LCS 480-106956/4	Lab Control Sample	100	97	94
MB 480-106956/5	Method Blank	97	95	92

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (52-151)	FBP (44-120)	2FP (17-120)	NBZ (42-120)	PHL (10-120)	TPH (22-125)
480-34142-7	Grab 1-4 031113	93	79	43	83	31	65
480-34142-7 MS	Grab 1-4 031113	89	74	40	78	30	53
480-34142-7 MSD	Grab 1-4 031113	89	74	41	78	34	58
LCS 480-107081/2-A	Lab Control Sample	85	80	43	79	35	84
MB 480-107081/1-A	Method Blank	67	79	40	78	31	88

Surrogate Legend

TBP = 2,4,6-Tribromophenol

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPH = p-Terphenyl-d14

Method: 608 - Organochlorine Pesticides in Water

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB2 (15-125)	TCX2 (36-121)
480-34142-5	COMP 031113	51	66
LCS 480-106995/2-A	Lab Control Sample	76	88
LCSD 480-106995/3-A	Lab Control Sample Dup	70	88
MB 480-106995/1-A	Method Blank	70	79

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltft) - 30130

TestAmerica Job ID: 480-34142-1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (10-158)	TCX1 (18-146)
480-34142-5	COMP 031113	56	85
LCS 480-107001/2-A	Lab Control Sample	75	107
MB 480-107001/1-A	Method Blank	71	92

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-106956/5

Matrix: Water

Analysis Batch: 106956

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/12/13 12:46	1
1,1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/12/13 12:46	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/12/13 12:46	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/12/13 12:46	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/12/13 12:46	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/12/13 12:46	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/12/13 12:46	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/12/13 12:46	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/12/13 12:46	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/12/13 12:46	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/12/13 12:46	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/12/13 12:46	1
Acrolein	ND		100	17	ug/L			03/12/13 12:46	1
Acrylonitrile	ND		25	1.9	ug/L			03/12/13 12:46	1
Benzene	ND		5.0	0.60	ug/L			03/12/13 12:46	1
Bromoform	ND		5.0	0.47	ug/L			03/12/13 12:46	1
Bromomethane	ND		5.0	1.2	ug/L			03/12/13 12:46	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/12/13 12:46	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/12/13 12:46	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			03/12/13 12:46	1
Chloroethane	ND		5.0	0.87	ug/L			03/12/13 12:46	1
Chloroform	ND		5.0	0.54	ug/L			03/12/13 12:46	1
Chloromethane	ND		5.0	0.64	ug/L			03/12/13 12:46	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/12/13 12:46	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			03/12/13 12:46	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/12/13 12:46	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/12/13 12:46	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/12/13 12:46	1
Toluene	ND		5.0	0.45	ug/L			03/12/13 12:46	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			03/12/13 12:46	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/12/13 12:46	1
Trichloroethene	ND		5.0	0.60	ug/L			03/12/13 12:46	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/12/13 12:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		72 - 130		03/12/13 12:46	1
4-Bromofluorobenzene (Surr)	95		69 - 121		03/12/13 12:46	1
Toluene-d8 (Surr)	92		70 - 123		03/12/13 12:46	1

Lab Sample ID: LCS 480-106956/4

Matrix: Water

Analysis Batch: 106956

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.2		ug/L		96	52 - 162
1,1,1,2,2-Tetrachloroethane	20.0	19.0		ug/L		95	46 - 157
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	52 - 150
1,1-Dichloroethane	20.0	18.3		ug/L		91	59 - 155

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltft) - 30130

TestAmerica Job ID: 480-34142-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-106956/4

Matrix: Water

Analysis Batch: 106956

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	20.0	16.3		ug/L		81	1 - 234
1,2-Dichlorobenzene	20.0	20.7		ug/L		104	18 - 190
1,2-Dichloroethane	20.0	20.3		ug/L		101	49 - 155
1,2-Dichloropropane	20.0	18.7		ug/L		94	1 - 210
1,3-Dichlorobenzene	20.0	18.2		ug/L		91	59 - 156
1,4-Dichlorobenzene	20.0	18.4		ug/L		92	18 - 190
2-Chloroethyl vinyl ether	100	99.8		ug/L		100	1 - 305
Benzene	20.0	18.8		ug/L		94	37 - 151
Bromoform	20.0	17.3		ug/L		87	45 - 169
Bromomethane	20.0	25.6		ug/L		128	1 - 242
Carbon tetrachloride	20.0	17.7		ug/L		88	70 - 140
Chlorobenzene	20.0	18.8		ug/L		94	37 - 160
Chlorodibromomethane	20.0	18.3		ug/L		92	53 - 149
Chloroethane	20.0	22.2		ug/L		111	14 - 230
Chloroform	20.0	20.0		ug/L		100	51 - 138
Chloromethane	20.0	20.9		ug/L		104	1 - 273
cis-1,3-Dichloropropene	20.0	18.8		ug/L		94	1 - 227
Dichlorobromomethane	20.0	18.9		ug/L		94	35 - 155
Ethylbenzene	20.0	18.9		ug/L		95	37 - 162
Methylene Chloride	20.0	19.2		ug/L		96	1 - 221
Tetrachloroethene	20.0	18.2		ug/L		91	64 - 148
Toluene	20.0	18.6		ug/L		93	47 - 150
trans-1,2-Dichloroethene	20.0	17.7		ug/L		88	54 - 156
trans-1,3-Dichloropropene	20.0	17.7		ug/L		89	17 - 183
Trichloroethene	20.0	19.3		ug/L		96	71 - 157
Vinyl chloride	20.0	17.0		ug/L		85	1 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		72 - 130
4-Bromofluorobenzene (Surr)	97		69 - 121
Toluene-d8 (Surr)	94		70 - 123

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-107081/1-A

Matrix: Water

Analysis Batch: 107345

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107081

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.49	ug/L		03/13/13 07:30	03/14/13 13:21	1
1,2-Dichlorobenzene	ND		10	0.15	ug/L		03/13/13 07:30	03/14/13 13:21	1
1,2-Diphenylhydrazine	ND		10	0.063	ug/L		03/13/13 07:30	03/14/13 13:21	1
1,3-Dichlorobenzene	ND		10	0.069	ug/L		03/13/13 07:30	03/14/13 13:21	1
1,4-Dichlorobenzene	ND		10	0.090	ug/L		03/13/13 07:30	03/14/13 13:21	1
2,4,6-Trichlorophenol	ND		5.0	0.23	ug/L		03/13/13 07:30	03/14/13 13:21	1
2,4-Dichlorophenol	ND		5.0	0.30	ug/L		03/13/13 07:30	03/14/13 13:21	1
2,4-Dimethylphenol	ND		5.0	0.13	ug/L		03/13/13 07:30	03/14/13 13:21	1
2,4-Dinitrophenol	ND		10	0.84	ug/L		03/13/13 07:30	03/14/13 13:21	1

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-107081/1-A

Matrix: Water

Analysis Batch: 107345

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107081

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		5.0	0.26	ug/L		03/13/13 07:30	03/14/13 13:21	1
2,6-Dinitrotoluene	ND		5.0	0.72	ug/L		03/13/13 07:30	03/14/13 13:21	1
2-Chloronaphthalene	ND		5.0	0.068	ug/L		03/13/13 07:30	03/14/13 13:21	1
2-Chlorophenol	ND		5.0	0.16	ug/L		03/13/13 07:30	03/14/13 13:21	1
2-Nitrophenol	ND		5.0	0.14	ug/L		03/13/13 07:30	03/14/13 13:21	1
3,3'-Dichlorobenzidine	ND		5.0	0.82	ug/L		03/13/13 07:30	03/14/13 13:21	1
4,6-Dinitro-2-methylphenol	ND		10	0.76	ug/L		03/13/13 07:30	03/14/13 13:21	1
4-Bromophenyl phenyl ether	ND		5.0	0.11	ug/L		03/13/13 07:30	03/14/13 13:21	1
4-Chloro-3-methylphenol	ND		5.0	0.56	ug/L		03/13/13 07:30	03/14/13 13:21	1
4-Chloroaniline	ND		5.0	0.69	ug/L		03/13/13 07:30	03/14/13 13:21	1
4-Chlorophenyl phenyl ether	ND		5.0	0.21	ug/L		03/13/13 07:30	03/14/13 13:21	1
4-Nitrophenol	ND		10	1.3	ug/L		03/13/13 07:30	03/14/13 13:21	1
Acenaphthene	ND		5.0	0.060	ug/L		03/13/13 07:30	03/14/13 13:21	1
Acenaphthylene	ND		5.0	0.034	ug/L		03/13/13 07:30	03/14/13 13:21	1
Anthracene	ND		5.0	0.052	ug/L		03/13/13 07:30	03/14/13 13:21	1
Benzidine	ND		80	2.5	ug/L		03/13/13 07:30	03/14/13 13:21	1
Benzo[a]anthracene	ND		5.0	0.043	ug/L		03/13/13 07:30	03/14/13 13:21	1
Benzo[a]pyrene	ND		5.0	0.058	ug/L		03/13/13 07:30	03/14/13 13:21	1
Benzo[b]fluoranthene	ND		5.0	0.062	ug/L		03/13/13 07:30	03/14/13 13:21	1
Benzo[g,h,i]perylene	ND		5.0	0.10	ug/L		03/13/13 07:30	03/14/13 13:21	1
Benzo[k]fluoranthene	ND		5.0	0.042	ug/L		03/13/13 07:30	03/14/13 13:21	1
bis (2-chloroisopropyl) ether	ND		5.0	0.086	ug/L		03/13/13 07:30	03/14/13 13:21	1
Bis(2-chloroethoxy)methane	ND		5.0	0.085	ug/L		03/13/13 07:30	03/14/13 13:21	1
Bis(2-chloroethyl)ether	ND		5.0	1.1	ug/L		03/13/13 07:30	03/14/13 13:21	1
Bis(2-ethylhexyl) phthalate	ND		10	0.86	ug/L		03/13/13 07:30	03/14/13 13:21	1
Butyl benzyl phthalate	ND		5.0	1.3	ug/L		03/13/13 07:30	03/14/13 13:21	1
Chrysene	ND		5.0	0.036	ug/L		03/13/13 07:30	03/14/13 13:21	1
Dibenz(a,h)anthracene	ND		5.0	0.055	ug/L		03/13/13 07:30	03/14/13 13:21	1
Diethyl phthalate	ND		5.0	0.17	ug/L		03/13/13 07:30	03/14/13 13:21	1
Dimethyl phthalate	ND		5.0	0.17	ug/L		03/13/13 07:30	03/14/13 13:21	1
Di-n-butyl phthalate	ND		5.0	0.94	ug/L		03/13/13 07:30	03/14/13 13:21	1
Di-n-octyl phthalate	ND		5.0	4.5	ug/L		03/13/13 07:30	03/14/13 13:21	1
Fluoranthene	ND		5.0	0.11	ug/L		03/13/13 07:30	03/14/13 13:21	1
Fluorene	ND		5.0	0.043	ug/L		03/13/13 07:30	03/14/13 13:21	1
Hexachlorobenzene	ND		5.0	0.28	ug/L		03/13/13 07:30	03/14/13 13:21	1
Hexachlorobutadiene	ND		5.0	0.62	ug/L		03/13/13 07:30	03/14/13 13:21	1
Hexachlorocyclopentadiene	ND		5.0	0.45	ug/L		03/13/13 07:30	03/14/13 13:21	1
Hexachloroethane	ND		5.0	0.48	ug/L		03/13/13 07:30	03/14/13 13:21	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.19	ug/L		03/13/13 07:30	03/14/13 13:21	1
Isophorone	ND		5.0	0.16	ug/L		03/13/13 07:30	03/14/13 13:21	1
Naphthalene	ND		5.0	0.080	ug/L		03/13/13 07:30	03/14/13 13:21	1
Nitrobenzene	ND		5.0	0.11	ug/L		03/13/13 07:30	03/14/13 13:21	1
N-Nitrosodimethylamine	ND		10	0.96	ug/L		03/13/13 07:30	03/14/13 13:21	1
N-Nitrosodi-n-propylamine	ND		5.0	0.23	ug/L		03/13/13 07:30	03/14/13 13:21	1
N-Nitrosodiphenylamine	ND		5.0	0.40	ug/L		03/13/13 07:30	03/14/13 13:21	1
Pentachlorophenol	ND		10	0.41	ug/L		03/13/13 07:30	03/14/13 13:21	1
Phenanthrene	ND		5.0	0.071	ug/L		03/13/13 07:30	03/14/13 13:21	1
Phenol	ND		5.0	0.12	ug/L		03/13/13 07:30	03/14/13 13:21	1

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-107081/1-A

Matrix: Water

Analysis Batch: 107345

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107081

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		5.0	0.041	ug/L		03/13/13 07:30	03/14/13 13:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	67		52 - 151	03/13/13 07:30	03/14/13 13:21	1
2-Fluorobiphenyl	79		44 - 120	03/13/13 07:30	03/14/13 13:21	1
2-Fluorophenol	40		17 - 120	03/13/13 07:30	03/14/13 13:21	1
Nitrobenzene-d5	78		42 - 120	03/13/13 07:30	03/14/13 13:21	1
Phenol-d5	31		10 - 120	03/13/13 07:30	03/14/13 13:21	1
p-Terphenyl-d14	88		22 - 125	03/13/13 07:30	03/14/13 13:21	1

Lab Sample ID: LCS 480-107081/2-A

Matrix: Water

Analysis Batch: 107345

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107081

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	100	75.0		ug/L		75	44 - 142
1,2-Dichlorobenzene	100	70.9		ug/L		71	32 - 129
1,3-Dichlorobenzene	100	69.9		ug/L		70	1 - 172
1,4-Dichlorobenzene	100	69.7		ug/L		70	20 - 124
2,4,6-Trichlorophenol	100	93.9		ug/L		94	37 - 144
2,4-Dichlorophenol	100	82.7		ug/L		83	39 - 135
2,4-Dimethylphenol	100	85.0		ug/L		85	32 - 119
2,4-Dinitrophenol	100	84.4		ug/L		84	1 - 191
2,4-Dinitrotoluene	100	99.1		ug/L		99	39 - 139
2,6-Dinitrotoluene	100	102		ug/L		102	50 - 158
2-Chloronaphthalene	100	86.0		ug/L		86	60 - 118
2-Chlorophenol	100	72.9		ug/L		73	23 - 134
2-Nitrophenol	100	85.0		ug/L		85	29 - 182
4,6-Dinitro-2-methylphenol	100	90.9		ug/L		91	1 - 181
4-Bromophenyl phenyl ether	100	94.9		ug/L		95	53 - 127
4-Chloro-3-methylphenol	100	91.4		ug/L		91	22 - 147
4-Chlorophenyl phenyl ether	100	91.5		ug/L		91	25 - 158
4-Nitrophenol	100	48.3		ug/L		48	1 - 132
Acenaphthene	100	92.6		ug/L		93	47 - 145
Acenaphthylene	100	94.3		ug/L		94	33 - 145
Anthracene	100	99.6		ug/L		100	27 - 133
Benzo[a]anthracene	100	96.8		ug/L		97	33 - 143
Benzo[a]pyrene	100	104		ug/L		104	17 - 163
Benzo[b]fluoranthene	100	96.3		ug/L		96	24 - 159
Benzo[g,h,i]perylene	100	101		ug/L		101	1 - 219
Benzo[k]fluoranthene	100	96.0		ug/L		96	11 - 162
bis (2-chloroisopropyl) ether	100	80.6		ug/L		81	36 - 166
Bis(2-chloroethoxy)methane	100	85.9		ug/L		86	33 - 184
Bis(2-chloroethyl)ether	100	82.4		ug/L		82	12 - 158
Bis(2-ethylhexyl) phthalate	100	101		ug/L		101	8 - 158
Butyl benzyl phthalate	100	102		ug/L		102	1 - 152
Chrysene	100	92.6		ug/L		93	17 - 168
Dibenz(a,h)anthracene	100	101		ug/L		101	1 - 227

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-107081/2-A

Matrix: Water

Analysis Batch: 107345

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107081

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diethyl phthalate	100	98.7		ug/L		99	1 - 114
Dimethyl phthalate	100	95.1		ug/L		95	1 - 112
Di-n-butyl phthalate	100	103		ug/L		103	1 - 118
Di-n-octyl phthalate	100	115		ug/L		115	4 - 146
Fluoranthene	100	98.7		ug/L		99	26 - 137
Fluorene	100	96.6		ug/L		97	59 - 121
Hexachlorobenzene	100	91.8		ug/L		92	1 - 152
Hexachlorocyclopentadiene	100	64.4		ug/L		64	5 - 120
Hexachloroethane	100	67.9		ug/L		68	40 - 113
Indeno[1,2,3-cd]pyrene	100	100		ug/L		100	1 - 171
Isophorone	100	90.7		ug/L		91	21 - 196
Naphthalene	100	82.7		ug/L		83	21 - 133
Nitrobenzene	100	89.1		ug/L		89	35 - 180
N-Nitrosodi-n-propylamine	100	91.1		ug/L		91	1 - 230
Pentachlorophenol	100	90.3		ug/L		90	14 - 176
Phenanthrene	100	95.5		ug/L		96	54 - 120
Phenol	100	41.6		ug/L		42	5 - 112
Pyrene	100	96.4		ug/L		96	52 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	85		52 - 151
2-Fluorobiphenyl	80		44 - 120
2-Fluorophenol	43		17 - 120
Nitrobenzene-d5	79		42 - 120
Phenol-d5	35		10 - 120
p-Terphenyl-d14	84		22 - 125

Lab Sample ID: 480-34142-7 MS

Matrix: Water

Analysis Batch: 107345

Client Sample ID: Grab 1-4 031113

Prep Type: Total/NA

Prep Batch: 107081

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	ND		100	77.9		ug/L		78	44 - 142
1,2-Dichlorobenzene	0.57	J	100	71.9		ug/L		71	32 - 129
1,3-Dichlorobenzene	0.34	J	100	70.7		ug/L		70	1 - 172
1,4-Dichlorobenzene	0.83	J	100	71.3		ug/L		71	20 - 124
2,4,6-Trichlorophenol	ND		100	91.8		ug/L		92	37 - 144
2,4-Dichlorophenol	ND		100	88.6		ug/L		89	39 - 135
2,4-Dimethylphenol	ND		100	89.5		ug/L		90	32 - 119
2,4-Dinitrophenol	ND		100	104		ug/L		104	1 - 191
2,4-Dinitrotoluene	ND		100	90.8		ug/L		91	39 - 139
2,6-Dinitrotoluene	ND		100	95.5		ug/L		96	50 - 158
2-Chloronaphthalene	ND		100	79.9		ug/L		80	60 - 118
2-Chlorophenol	ND		100	76.4		ug/L		76	23 - 134
2-Nitrophenol	ND		100	90.0		ug/L		90	29 - 182
4,6-Dinitro-2-methylphenol	ND		100	99.2		ug/L		99	1 - 181
4-Bromophenyl phenyl ether	ND		100	89.9		ug/L		90	53 - 127
4-Chloro-3-methylphenol	ND		100	98.3		ug/L		98	22 - 147

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-34142-7 MS

Matrix: Water

Analysis Batch: 107345

Client Sample ID: Grab 1-4 031113

Prep Type: Total/NA

Prep Batch: 107081

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorophenyl phenyl ether	ND		100	81.3		ug/L		81	25 - 158
4-Nitrophenol	ND		100	47.7		ug/L		48	1 - 132
Acenaphthene	0.46	J	100	86.2		ug/L		86	47 - 145
Acenaphthylene	ND		100	86.1		ug/L		86	33 - 145
Anthracene	ND		100	92.3		ug/L		92	27 - 133
Benzo[a]anthracene	ND		100	85.3		ug/L		85	33 - 143
Benzo[a]pyrene	ND		100	92.5		ug/L		92	17 - 163
Benzo[b]fluoranthene	ND		100	92.1		ug/L		92	24 - 159
Benzo[g,h,i]perylene	ND		100	59.3		ug/L		59	1 - 219
Benzo[k]fluoranthene	ND		100	82.2		ug/L		82	11 - 162
bis (2-chloroisopropyl) ether	ND		100	79.2		ug/L		79	36 - 166
Bis(2-chloroethoxy)methane	ND		100	87.3		ug/L		87	33 - 184
Bis(2-chloroethyl)ether	ND		100	81.1		ug/L		81	12 - 158
Bis(2-ethylhexyl) phthalate	ND		100	86.4		ug/L		86	8 - 158
Butyl benzyl phthalate	ND		100	92.4		ug/L		92	1 - 152
Chrysene	ND		100	81.4		ug/L		81	17 - 168
Dibenz(a,h)anthracene	ND		100	63.0		ug/L		63	1 - 227
Diethyl phthalate	ND		100	91.8		ug/L		92	1 - 114
Dimethyl phthalate	ND		100	88.3		ug/L		88	1 - 112
Di-n-butyl phthalate	ND		100	97.2		ug/L		97	1 - 118
Di-n-octyl phthalate	ND		100	100		ug/L		100	4 - 146
Fluoranthene	ND		100	92.9		ug/L		93	26 - 137
Fluorene	ND		100	86.5		ug/L		87	59 - 121
Hexachlorobenzene	ND		100	80.9		ug/L		81	1 - 152
Hexachlorocyclopentadiene	ND		100	52.7		ug/L		53	5 - 120
Hexachloroethane	ND		100	70.4		ug/L		70	40 - 113
Indeno[1,2,3-cd]pyrene	ND		100	63.5		ug/L		64	1 - 171
Isophorone	ND		100	91.4		ug/L		91	21 - 196
Naphthalene	0.94	J	100	83.6		ug/L		83	21 - 133
Nitrobenzene	ND		100	87.6		ug/L		88	35 - 180
N-Nitrosodi-n-propylamine	ND		100	92.1		ug/L		92	1 - 230
Pentachlorophenol	ND		100	112		ug/L		112	14 - 176
Phenanthrene	ND		100	89.6		ug/L		90	54 - 120
Phenol	ND		100	38.8		ug/L		39	5 - 112
Pyrene	ND		100	82.9		ug/L		83	52 - 115

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol	89		52 - 151
2-Fluorobiphenyl	74		44 - 120
2-Fluorophenol	40		17 - 120
Nitrobenzene-d5	78		42 - 120
Phenol-d5	30		10 - 120
p-Terphenyl-d14	53		22 - 125

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-34142-7 MSD

Matrix: Water

Analysis Batch: 107345

Client Sample ID: Grab 1-4 031113

Prep Type: Total/NA

Prep Batch: 107081

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	ND		100	75.7		ug/L		76	44 - 142	3	34
1,2-Dichlorobenzene	0.57	J	100	72.1		ug/L		72	32 - 129	0	38
1,3-Dichlorobenzene	0.34	J	100	70.5		ug/L		70	1 - 172	0	37
1,4-Dichlorobenzene	0.83	J	100	71.8		ug/L		71	20 - 124	1	40
2,4,6-Trichlorophenol	ND		100	92.0		ug/L		92	37 - 144	0	20
2,4-Dichlorophenol	ND		100	87.0		ug/L		87	39 - 135	2	23
2,4-Dimethylphenol	ND		100	91.1		ug/L		91	32 - 119	2	18
2,4-Dinitrophenol	ND		100	109		ug/L		109	1 - 191	4	29
2,4-Dinitrotoluene	ND		100	91.7		ug/L		92	39 - 139	1	20
2,6-Dinitrotoluene	ND		100	95.1		ug/L		95	50 - 158	0	17
2-Chloronaphthalene	ND		100	79.8		ug/L		80	60 - 118	0	30
2-Chlorophenol	ND		100	76.4		ug/L		76	23 - 134	0	26
2-Nitrophenol	ND		100	89.4		ug/L		89	29 - 182	1	28
4,6-Dinitro-2-methylphenol	ND		100	102		ug/L		102	1 - 181	3	30
4-Bromophenyl phenyl ether	ND		100	91.7		ug/L		92	53 - 127	2	16
4-Chloro-3-methylphenol	ND		100	99.0		ug/L		99	22 - 147	1	16
4-Chlorophenyl phenyl ether	ND		100	82.6		ug/L		83	25 - 158	2	15
4-Nitrophenol	ND		100	47.6		ug/L		48	1 - 132	0	24
Acenaphthene	0.46	J	100	85.9		ug/L		85	47 - 145	0	25
Acenaphthylene	ND		100	86.7		ug/L		87	33 - 145	1	22
Anthracene	ND		100	94.5		ug/L		94	27 - 133	2	15
Benzo[a]anthracene	ND		100	89.4		ug/L		89	33 - 143	5	15
Benzo[a]pyrene	ND		100	100		ug/L		100	17 - 163	8	15
Benzo[b]fluoranthene	ND		100	97.1		ug/L		97	24 - 159	5	17
Benzo[g,h,i]perylene	ND		100	55.7		ug/L		56	1 - 219	6	19
Benzo[k]fluoranthene	ND		100	95.4		ug/L		95	11 - 162	15	19
bis (2-chloroisopropyl) ether	ND		100	77.7		ug/L		78	36 - 166	2	36
Bis(2-chloroethoxy)methane	ND		100	85.2		ug/L		85	33 - 184	2	23
Bis(2-chloroethyl)ether	ND		100	80.8		ug/L		81	12 - 158	0	33
Bis(2-ethylhexyl) phthalate	ND		100	89.3		ug/L		89	8 - 158	3	15
Butyl benzyl phthalate	ND		100	94.8		ug/L		95	1 - 152	3	15
Chrysene	ND		100	86.9		ug/L		87	17 - 168	6	15
Dibenz(a,h)anthracene	ND		100	60.3		ug/L		60	1 - 227	4	18
Diethyl phthalate	ND		100	90.5		ug/L		91	1 - 114	1	15
Dimethyl phthalate	ND		100	88.7		ug/L		89	1 - 112	0	15
Di-n-butyl phthalate	ND		100	99.4		ug/L		99	1 - 118	2	15
Di-n-octyl phthalate	ND		100	103		ug/L		103	4 - 146	3	15
Fluoranthene	ND		100	95.5		ug/L		96	26 - 137	3	15
Fluorene	ND		100	86.5		ug/L		86	59 - 121	0	18
Hexachlorobenzene	ND		100	85.1		ug/L		85	1 - 152	5	15
Hexachlorocyclopentadiene	ND		100	50.6		ug/L		51	5 - 120	4	50
Hexachloroethane	ND		100	71.7		ug/L		72	40 - 113	2	43
Indeno[1,2,3-cd]pyrene	ND		100	60.7		ug/L		61	1 - 171	5	17
Isophorone	ND		100	90.5		ug/L		91	21 - 196	1	21
Naphthalene	0.94	J	100	81.9		ug/L		81	21 - 133	2	31
Nitrobenzene	ND		100	85.4		ug/L		85	35 - 180	3	27
N-Nitrosodi-n-propylamine	ND		100	91.8		ug/L		92	1 - 230	0	23
Pentachlorophenol	ND		100	112		ug/L		112	14 - 176	0	21

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-34142-7 MSD

Matrix: Water

Analysis Batch: 107345

Client Sample ID: Grab 1-4 031113

Prep Type: Total/NA

Prep Batch: 107081

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Phenanthrene	ND		100	91.4		ug/L		91	54 - 120	2	16
Phenol	ND		100	42.3		ug/L		42	5 - 112	9	36
Pyrene	ND		100	83.6		ug/L		84	52 - 115	1	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol	89		52 - 151
2-Fluorobiphenyl	74		44 - 120
2-Fluorophenol	41		17 - 120
Nitrobenzene-d5	78		42 - 120
Phenol-d5	34		10 - 120
p-Terphenyl-d14	58		22 - 125

Method: 608 - Organochlorine Pesticides in Water

Lab Sample ID: MB 480-106995/1-A

Matrix: Water

Analysis Batch: 107106

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106995

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.0066	ug/L		03/12/13 14:31	03/13/13 11:02	1
alpha-BHC	ND		0.050	0.0066	ug/L		03/12/13 14:31	03/13/13 11:02	1
beta-BHC	ND		0.050	0.025	ug/L		03/12/13 14:31	03/13/13 11:02	1
delta-BHC	ND		0.050	0.010	ug/L		03/12/13 14:31	03/13/13 11:02	1
gamma-BHC (Lindane)	ND		0.050	0.0060	ug/L		03/12/13 14:31	03/13/13 11:02	1
Chlordane (technical)	ND		0.50	0.029	ug/L		03/12/13 14:31	03/13/13 11:02	1
4,4'-DDD	ND		0.050	0.0092	ug/L		03/12/13 14:31	03/13/13 11:02	1
4,4'-DDE	ND		0.050	0.012	ug/L		03/12/13 14:31	03/13/13 11:02	1
4,4'-DDT	ND		0.050	0.011	ug/L		03/12/13 14:31	03/13/13 11:02	1
Dieldrin	ND		0.050	0.0098	ug/L		03/12/13 14:31	03/13/13 11:02	1
Endosulfan I	ND		0.050	0.011	ug/L		03/12/13 14:31	03/13/13 11:02	1
Endosulfan II	ND		0.050	0.012	ug/L		03/12/13 14:31	03/13/13 11:02	1
Endosulfan sulfate	ND		0.050	0.016	ug/L		03/12/13 14:31	03/13/13 11:02	1
Endrin	ND		0.050	0.014	ug/L		03/12/13 14:31	03/13/13 11:02	1
Endrin aldehyde	ND		0.050	0.016	ug/L		03/12/13 14:31	03/13/13 11:02	1
Heptachlor	ND		0.050	0.0085	ug/L		03/12/13 14:31	03/13/13 11:02	1
Heptachlor epoxide	ND		0.050	0.0053	ug/L		03/12/13 14:31	03/13/13 11:02	1
Toxaphene	ND		0.50	0.12	ug/L		03/12/13 14:31	03/13/13 11:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	70		15 - 125	03/12/13 14:31	03/13/13 11:02	1
Tetrachloro-m-xylene	79		36 - 121	03/12/13 14:31	03/13/13 11:02	1

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Method: 608 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCS 480-106995/2-A

Matrix: Water

Analysis Batch: 107106

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 106995

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.500	0.452		ug/L		90	35 - 120
alpha-BHC	0.500	0.582		ug/L		116	39 - 121
beta-BHC	0.500	0.497		ug/L		99	39 - 138
delta-BHC	0.500	0.472		ug/L		94	40 - 121
gamma-BHC (Lindane)	0.500	0.504		ug/L		101	54 - 134
4,4'-DDD	0.500	0.485		ug/L		97	54 - 142
4,4'-DDE	0.500	0.476		ug/L		95	48 - 128
4,4'-DDT	0.500	0.436		ug/L		87	53 - 136
Dieldrin	0.500	0.507		ug/L		101	52 - 132
Endosulfan I	0.500	0.482		ug/L		96	47 - 126
Endosulfan II	0.500	0.487		ug/L		97	48 - 134
Endosulfan sulfate	0.500	0.494		ug/L		99	57 - 140
Endrin	0.500	0.518		ug/L		104	54 - 135
Endrin aldehyde	0.500	0.421		ug/L		84	55 - 132
Heptachlor	0.500	0.486		ug/L		97	42 - 126
Heptachlor epoxide	0.500	0.493		ug/L		99	53 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	76		15 - 125
Tetrachloro-m-xylene	88		36 - 121

Lab Sample ID: LCSD 480-106995/3-A

Matrix: Water

Analysis Batch: 107106

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 106995

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	0.500	0.461		ug/L		92	35 - 120	2	50
alpha-BHC	0.500	0.585		ug/L		117	39 - 121	1	50
beta-BHC	0.500	0.497		ug/L		99	39 - 138	0	50
delta-BHC	0.500	0.464		ug/L		93	40 - 121	2	50
gamma-BHC (Lindane)	0.500	0.506		ug/L		101	54 - 134	0	50
4,4'-DDD	0.500	0.493		ug/L		99	54 - 142	2	50
4,4'-DDE	0.500	0.490		ug/L		98	48 - 128	3	50
4,4'-DDT	0.500	0.439		ug/L		88	53 - 136	1	50
Dieldrin	0.500	0.514		ug/L		103	52 - 132	1	50
Endosulfan I	0.500	0.491		ug/L		98	47 - 126	2	50
Endosulfan II	0.500	0.488		ug/L		98	48 - 134	0	50
Endosulfan sulfate	0.500	0.494		ug/L		99	57 - 140	0	50
Endrin	0.500	0.527		ug/L		105	54 - 135	2	50
Endrin aldehyde	0.500	0.365		ug/L		73	55 - 132	14	50
Heptachlor	0.500	0.490		ug/L		98	42 - 126	1	50
Heptachlor epoxide	0.500	0.501		ug/L		100	53 - 134	1	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	70		15 - 125
Tetrachloro-m-xylene	88		36 - 121

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltft) - 30130

TestAmerica Job ID: 480-34142-1

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 480-107001/1-A

Matrix: Water

Analysis Batch: 107101

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 107001

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.060	0.038	ug/L		03/12/13 14:47	03/13/13 09:17	1
PCB-1221	ND		0.060	0.038	ug/L		03/12/13 14:47	03/13/13 09:17	1
PCB-1232	ND		0.060	0.038	ug/L		03/12/13 14:47	03/13/13 09:17	1
PCB-1242	ND		0.060	0.038	ug/L		03/12/13 14:47	03/13/13 09:17	1
PCB-1248	ND		0.060	0.038	ug/L		03/12/13 14:47	03/13/13 09:17	1
PCB-1254	ND		0.060	0.031	ug/L		03/12/13 14:47	03/13/13 09:17	1
PCB-1260	ND		0.060	0.031	ug/L		03/12/13 14:47	03/13/13 09:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	71		10 - 158	03/12/13 14:47	03/13/13 09:17	1
Tetrachloro-m-xylene	92		18 - 146	03/12/13 14:47	03/13/13 09:17	1

Lab Sample ID: LCS 480-107001/2-A

Matrix: Water

Analysis Batch: 107101

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 107001

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.00	1.04		ug/L		104	44 - 154
PCB-1260	1.00	0.906		ug/L		91	34 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	75		10 - 158
Tetrachloro-m-xylene	107		18 - 146

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-106837/1-A

Matrix: Water

Analysis Batch: 107117

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0056	mg/L		03/12/13 06:50	03/12/13 15:48	1
Barium	ND		0.0020	0.00070	mg/L		03/12/13 06:50	03/12/13 15:48	1
Cadmium	ND		0.0010	0.00050	mg/L		03/12/13 06:50	03/12/13 15:48	1
Chromium	ND		0.0040	0.0010	mg/L		03/12/13 06:50	03/12/13 15:48	1
Copper	0.00167	J	0.010	0.0016	mg/L		03/12/13 06:50	03/12/13 15:48	1
Lead	ND		0.0050	0.0030	mg/L		03/12/13 06:50	03/12/13 15:48	1
Nickel	ND		0.010	0.0013	mg/L		03/12/13 06:50	03/12/13 15:48	1
Selenium	ND		0.015	0.0087	mg/L		03/12/13 06:50	03/12/13 15:48	1
Silver	ND		0.0030	0.0017	mg/L		03/12/13 06:50	03/12/13 15:48	1
Zinc	ND		0.010	0.0015	mg/L		03/12/13 06:50	03/12/13 15:48	1

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-106837/2-A

Matrix: Water

Analysis Batch: 107117

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 106837

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.207		mg/L		104	85 - 115
Barium	0.200	0.217		mg/L		108	85 - 115
Cadmium	0.200	0.213		mg/L		107	85 - 115
Chromium	0.200	0.210		mg/L		105	85 - 115
Copper	0.200	0.214		mg/L		107	85 - 115
Lead	0.200	0.206		mg/L		103	85 - 115
Nickel	0.200	0.199		mg/L		100	85 - 115
Selenium	0.200	0.213		mg/L		106	85 - 115
Silver	0.0500	0.0528		mg/L		106	85 - 115
Zinc	0.200	0.208		mg/L		104	85 - 115

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 480-106911/1-A

Matrix: Water

Analysis Batch: 106980

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 106911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/12/13 08:15	03/12/13 11:27	1

Lab Sample ID: LCS 480-106911/2-A

Matrix: Water

Analysis Batch: 106980

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 106911

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00638		mg/L		96	85 - 115

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 480-108412/1-A

Matrix: Water

Analysis Batch: 108420

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 108412

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.0	1.4	mg/L		03/21/13 01:41	03/21/13 02:07	1

Lab Sample ID: LCS 480-108412/2-A

Matrix: Water

Analysis Batch: 108420

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 108412

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease	40.0	37.70		mg/L		94	78 - 114

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 480-108390/1-A
Matrix: Water
Analysis Batch: 108397

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108390

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	ND		0.010	0.0050	mg/L		03/20/13 17:30	03/20/13 20:58	1

Lab Sample ID: LCS 480-108390/2-A
Matrix: Water
Analysis Batch: 108397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108390

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	0.250	0.263		mg/L		105	90 - 110

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-106880/1
Matrix: Water
Analysis Batch: 106880

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			03/11/13 21:21	1

Lab Sample ID: LCS 480-106880/2
Matrix: Water
Analysis Batch: 106880

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	235	230.4		mg/L		98	88 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-106883/1
Matrix: Water
Analysis Batch: 106883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.010		SU		100	99 - 101

Lab Sample ID: 480-34142-5 DU
Matrix: Water
Analysis Batch: 106883

Client Sample ID: COMP 031113
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.27	HF	7.250		SU		0.3	5

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltft) - 30130

TestAmerica Job ID: 480-34142-1

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 480-107465/3

Matrix: Water

Analysis Batch: 107465

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	ND		0.010	0.0050	mg/L			03/14/13 12:52	1

Lab Sample ID: LCS 480-107465/4

Matrix: Water

Analysis Batch: 107465

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus, Total	0.200	0.203		mg/L		102	90 - 110

QC Association Summary

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

GC/MS VOA

Analysis Batch: 106956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34142-6	TB_031113	Total/NA	Water	624	
480-34142-7	Grab 1-4 031113	Total/NA	Water	624	
LCS 480-106956/4	Lab Control Sample	Total/NA	Water	624	
MB 480-106956/5	Method Blank	Total/NA	Water	624	

GC/MS Semi VOA

Prep Batch: 107081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34142-7	Grab 1-4 031113	Total/NA	Water	625	
480-34142-7 MS	Grab 1-4 031113	Total/NA	Water	625	
480-34142-7 MSD	Grab 1-4 031113	Total/NA	Water	625	
LCS 480-107081/2-A	Lab Control Sample	Total/NA	Water	625	
MB 480-107081/1-A	Method Blank	Total/NA	Water	625	

Analysis Batch: 107345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34142-7	Grab 1-4 031113	Total/NA	Water	625	107081
480-34142-7 MS	Grab 1-4 031113	Total/NA	Water	625	107081
480-34142-7 MSD	Grab 1-4 031113	Total/NA	Water	625	107081
LCS 480-107081/2-A	Lab Control Sample	Total/NA	Water	625	107081
MB 480-107081/1-A	Method Blank	Total/NA	Water	625	107081

GC Semi VOA

Prep Batch: 106995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34142-5	COMP 031113	Total/NA	Water	3510C	
LCS 480-106995/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-106995/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 480-106995/1-A	Method Blank	Total/NA	Water	3510C	

Prep Batch: 107001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34142-5	COMP 031113	Total/NA	Water	3510C	
LCS 480-107001/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 480-107001/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 107101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34142-5	COMP 031113	Total/NA	Water	608	107001
LCS 480-107001/2-A	Lab Control Sample	Total/NA	Water	608	107001
MB 480-107001/1-A	Method Blank	Total/NA	Water	608	107001

Analysis Batch: 107106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34142-5	COMP 031113	Total/NA	Water	608	106995
LCS 480-106995/2-A	Lab Control Sample	Total/NA	Water	608	106995
LCSD 480-106995/3-A	Lab Control Sample Dup	Total/NA	Water	608	106995
MB 480-106995/1-A	Method Blank	Total/NA	Water	608	106995

TestAmerica Buffalo

QC Association Summary

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Metals

Prep Batch: 106837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34142-5	COMP 031113	Total/NA	Water	200.7	
LCS 480-106837/2-A	Lab Control Sample	Total/NA	Water	200.7	
MB 480-106837/1-A	Method Blank	Total/NA	Water	200.7	

Prep Batch: 106911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34142-5	COMP 031113	Total/NA	Water	245.1	
LCS 480-106911/2-A	Lab Control Sample	Total/NA	Water	245.1	
MB 480-106911/1-A	Method Blank	Total/NA	Water	245.1	

Analysis Batch: 106980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34142-5	COMP 031113	Total/NA	Water	245.1	106911
LCS 480-106911/2-A	Lab Control Sample	Total/NA	Water	245.1	106911
MB 480-106911/1-A	Method Blank	Total/NA	Water	245.1	106911

Analysis Batch: 107117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34142-5	COMP 031113	Total/NA	Water	200.7 Rev 4.4	106837
LCS 480-106837/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	106837
MB 480-106837/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	106837

General Chemistry

Analysis Batch: 106880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34142-5	COMP 031113	Total/NA	Water	SM 2540D	
LCS 480-106880/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-106880/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 106883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34142-5	COMP 031113	Total/NA	Water	SM 4500 H+ B	
480-34142-5 DU	COMP 031113	Total/NA	Water	SM 4500 H+ B	
LCS 480-106883/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 107465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34142-5	COMP 031113	Total/NA	Water	SM 4500 P E	
LCS 480-107465/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	
MB 480-107465/3	Method Blank	Total/NA	Water	SM 4500 P E	

Prep Batch: 108390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34142-7	Grab 1-4 031113	Total/NA	Water	Distill/CN	
LCS 480-108390/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	
MB 480-108390/1-A	Method Blank	Total/NA	Water	Distill/CN	

TestAmerica Buffalo

QC Association Summary

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltft) - 30130

TestAmerica Job ID: 480-34142-1

General Chemistry (Continued)

Analysis Batch: 108397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34142-7	Grab 1-4 031113	Total/NA	Water	335.4	108390
LCS 480-108390/2-A	Lab Control Sample	Total/NA	Water	335.4	108390
MB 480-108390/1-A	Method Blank	Total/NA	Water	335.4	108390

Prep Batch: 108412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34142-7	Grab 1-4 031113	Total/NA	Water	1664A	
LCS 480-108412/2-A	Lab Control Sample	Total/NA	Water	1664A	
MB 480-108412/1-A	Method Blank	Total/NA	Water	1664A	

Analysis Batch: 108420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-34142-7	Grab 1-4 031113	Total/NA	Water	1664A	108412
LCS 480-108412/2-A	Lab Control Sample	Total/NA	Water	1664A	108412
MB 480-108412/1-A	Method Blank	Total/NA	Water	1664A	108412

Lab Chronicle

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Client Sample ID: COMP 031113

Date Collected: 03/11/13 13:15

Date Received: 03/11/13 13:55

Lab Sample ID: 480-34142-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			107001	03/12/13 14:47	ND	TAL BUF
Total/NA	Analysis	608		1	107101	03/13/13 12:46	JM	TAL BUF
Total/NA	Prep	3510C			106995	03/12/13 14:31	ND	TAL BUF
Total/NA	Analysis	608		1	107106	03/13/13 12:33	LW	TAL BUF
Total/NA	Prep	245.1			106911	03/12/13 08:15	JRK	TAL BUF
Total/NA	Analysis	245.1		1	106980	03/12/13 11:34	JRK	TAL BUF
Total/NA	Prep	200.7			106837	03/12/13 06:50	JM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	107117	03/12/13 17:00	LH	TAL BUF
Total/NA	Analysis	SM 2540D		1	106880	03/11/13 21:43	KS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	106883	03/11/13 22:10	KS	TAL BUF
Total/NA	Analysis	SM 4500 P E		5	107465	03/14/13 14:26	KJ	TAL BUF

Client Sample ID: TB_031113

Date Collected: 03/11/13 13:20

Date Received: 03/11/13 13:55

Lab Sample ID: 480-34142-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	106956	03/12/13 14:40	RJ	TAL BUF

Client Sample ID: Grab 1-4 031113

Date Collected: 03/11/13 13:00

Date Received: 03/11/13 13:55

Lab Sample ID: 480-34142-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		10	106956	03/12/13 15:04	RJ	TAL BUF
Total/NA	Prep	625			107081	03/13/13 07:30	DE	TAL BUF
Total/NA	Analysis	625		1	107345	03/14/13 16:24	AM	TAL BUF
Total/NA	Prep	Distill/CN			108390	03/20/13 17:30	NH	TAL BUF
Total/NA	Analysis	335.4		1	108397	03/20/13 21:00	NH	TAL BUF
Total/NA	Prep	1664A			108412	03/21/13 01:41	LAW	TAL BUF
Total/NA	Analysis	1664A		1	108420	03/21/13 02:07	LAW	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-13
Georgia	State Program	4	N/A	03-31-13
Georgia	State Program	4	956	06-30-13
Georgia	State Program	4	956	06-30-13
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-01-13
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-13
Louisiana	NELAP	6	02031	06-30-13
Maine	State Program	1	NY00044	12-04-13
Maryland	State Program	3	294	03-31-13
Massachusetts	State Program	1	M-NY044	06-30-13
Michigan	State Program	5	9937	04-01-13
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-13
New Hampshire	NELAP	1	2337	11-17-13
New Jersey	NELAP	2	NY455	06-30-13
New York	NELAP	2	10026	03-31-13
North Dakota	State Program	8	R-176	03-31-13
Oklahoma	State Program	6	9421	08-31-13
Oregon	NELAP	10	NY200003	06-09-13
Pennsylvania	NELAP	3	68-00281	07-31-13
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-13
Texas	NELAP	6	T104704412-11-2	07-31-13
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-13
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-13

Method Summary

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
608	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	TAL BUF
608	Organochlorine Pesticides in Water	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
245.1	Mercury (CVAA)	EPA	TAL BUF
1664A	HEM and SGT-HEM	1664A	TAL BUF
335.4	Cyanide, Total	MCAWW	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
SM 4500 P E	Phosphorus	SM	TAL BUF

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Honeywell International Inc
Project/Site: Honeywell - Buffalo (Alltiff) - 30130

TestAmerica Job ID: 480-34142-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-34142-5	COMP 031113	Water	03/11/13 13:15	03/11/13 13:55
480-34142-6	TB_031113	Water	03/11/13 13:20	03/11/13 13:55
480-34142-7	Grab 1-4 031113	Water	03/11/13 13:00	03/11/13 13:55

TestAmerica

THE UNIVERSITY OF CHICAGO

2.7, 2.10, 3.2, 4.1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Login Sample Receipt Checklist

Client: Honeywell International Inc

Job Number: 480-34142-1

Login Number: 34142

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	LAB COMP
Sampling Company provided.	True	ch2m hill
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-45417-1

Client Project/Site: 30130 - Alltft OM Phase / Semi Annual

For:

Honeywell International Inc

101 Columbia Road

Morristown, New Jersey 07962

Attn: Mr. Rich Galloway



Authorized for release by:

9/26/2013 11:03:11 AM

Rebecca Jones, Project Mgmt. Assistant

rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager I

john.schove@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Honeywell International Inc
Project/Site: 30130 - Alltft OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD exceeds the control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Honeywell International Inc
Project/Site: 30130 - Alltft OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

Job ID: 480-45417-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-45417-1

Comments

No additional comments.

Receipt

The samples were received on 9/9/2013 4:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

GC/MS VOA

Method(s) 624: The following sample(s) was composited by the laboratory on 9/10/2013 as requested on the chain-of-custody: Grab 090913 (480-45417-4).

Method(s) 624: The following volatiles sample(s) was diluted due to foaming at the time of purging during the original sample analysis: Grab 090913 (480-45417-4). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 625: The continuing calibration verification (CCV) for multiple analytes associated with batch 138627 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method(s) 625: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 138327 recovered outside control limits for the following analytes: 3,3'-Dichlorobenzidine and Benzidine. The recoveries were within quality control acceptance limits, therefore the data has been qualified and reported.

Method(s) 625: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 138327 exhibited the spike recovery and precision outside control limits for the following analyte: N-Nitrosodiphenylamine. This analyte has been identified as a poor performing analyte; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 625: The continuing calibration verification (CCV) for Benzo(g,h,i)perylene and Dibenzo(a,h)anthracene associated with batch 138890 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

General Chemistry

Method(s) SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample(s) has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: COMP 090913 (480-45417-5)

No other analytical or quality issues were noted.

Organic Prep

Method(s) 625: The following sample was composited by the laboratory on 9/11/13 as requested on the chain-of-custody: Grab 090913 (480-45417-4).

No other analytical or quality issues were noted.

Detection Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltft OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

Client Sample ID: Grab 090913

Lab Sample ID: 480-45417-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	16	J	40	13	ug/L	4		624	Total/NA
Benzene	2.7	J	20	2.4	ug/L	4		624	Total/NA
Chlorobenzene	35		20	1.9	ug/L	4		624	Total/NA
Vinyl chloride	4.6	J	20	3.0	ug/L	4		624	Total/NA
1,2-Diphenylhydrazine	1.7	J	10	0.063	ug/L	1		625	Total/NA
2,4-Dimethylphenol	3.0	J	5.0	0.13	ug/L	1		625	Total/NA
Naphthalene	4.1	J	5.0	0.080	ug/L	1		625	Total/NA

Client Sample ID: COMP 090913

Lab Sample ID: 480-45417-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0057	J	0.010	0.0056	mg/L	1		200.7 Rev 4.4	Total/NA
Barium	0.28		0.0020	0.00070	mg/L	1		200.7 Rev 4.4	Total/NA
Chromium	0.0067		0.0040	0.0010	mg/L	1		200.7 Rev 4.4	Total/NA
Copper	0.022		0.010	0.0016	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.0043	J	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Phosphorus, Total	0.30		0.050	0.025	mg/L	5		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Total Suspended Solids	5.2		4.0	4.0	mg/L	1		SM 2540D	Total/NA
pH	7.72	HF	0.100	0.100	SU	1		SM 4500 H+ B	Total/NA

Client Sample ID: TB 090913

Lab Sample ID: 480-45417-6

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltft OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

Client Sample ID: Grab 090913

Lab Sample ID: 480-45417-4

Date Collected: 09/09/13 13:00

Matrix: Water

Date Received: 09/09/13 16:30

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	1.5	ug/L			09/10/13 21:58	4
1,1,2,2-Tetrachloroethane	ND		20	1.0	ug/L			09/10/13 21:58	4
1,1,2-Trichloroethane	ND		20	1.9	ug/L			09/10/13 21:58	4
1,1-Dichloroethane	ND		20	2.4	ug/L			09/10/13 21:58	4
1,1-Dichloroethene	ND		20	3.4	ug/L			09/10/13 21:58	4
1,2-Dichlorobenzene	ND		20	1.8	ug/L			09/10/13 21:58	4
1,2-Dichloroethane	ND		20	2.4	ug/L			09/10/13 21:58	4
1,2-Dichloroethene, Total	16	J	40	13	ug/L			09/10/13 21:58	4
1,2-Dichloropropane	ND		20	2.4	ug/L			09/10/13 21:58	4
1,3-Dichlorobenzene	ND		20	2.2	ug/L			09/10/13 21:58	4
1,4-Dichlorobenzene	ND		20	2.0	ug/L			09/10/13 21:58	4
2-Chloroethyl vinyl ether	ND		100	7.4	ug/L			09/10/13 21:58	4
Acrolein	ND		400	70	ug/L			09/10/13 21:58	4
Acrylonitrile	ND		100	7.6	ug/L			09/10/13 21:58	4
Benzene	2.7	J	20	2.4	ug/L			09/10/13 21:58	4
Bromoform	ND		20	1.9	ug/L			09/10/13 21:58	4
Bromomethane	ND		20	4.8	ug/L			09/10/13 21:58	4
Carbon tetrachloride	ND		20	2.0	ug/L			09/10/13 21:58	4
Chlorobenzene	35		20	1.9	ug/L			09/10/13 21:58	4
Chlorodibromomethane	ND		20	1.7	ug/L			09/10/13 21:58	4
Chloroethane	ND		20	3.5	ug/L			09/10/13 21:58	4
Chloroform	ND		20	2.2	ug/L			09/10/13 21:58	4
Chloromethane	ND		20	2.5	ug/L			09/10/13 21:58	4
cis-1,3-Dichloropropene	ND		20	1.3	ug/L			09/10/13 21:58	4
Dichlorobromomethane	ND		20	2.1	ug/L			09/10/13 21:58	4
Ethylbenzene	ND		20	1.9	ug/L			09/10/13 21:58	4
Methylene Chloride	ND		20	3.3	ug/L			09/10/13 21:58	4
Tetrachloroethene	ND		20	1.4	ug/L			09/10/13 21:58	4
Toluene	ND		20	1.8	ug/L			09/10/13 21:58	4
trans-1,2-Dichloroethene	ND		20	2.4	ug/L			09/10/13 21:58	4
trans-1,3-Dichloropropene	ND		20	1.8	ug/L			09/10/13 21:58	4
Trichloroethene	ND		20	2.4	ug/L			09/10/13 21:58	4
Vinyl chloride	4.6	J	20	3.0	ug/L			09/10/13 21:58	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		72 - 130		09/10/13 21:58	4
4-Bromofluorobenzene (Surr)	97		69 - 121		09/10/13 21:58	4
Toluene-d8 (Surr)	105		70 - 123		09/10/13 21:58	4

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.49	ug/L		09/11/13 07:23	09/13/13 16:34	1
1,2-Dichlorobenzene	ND		10	0.15	ug/L		09/11/13 07:23	09/13/13 16:34	1
1,2-Diphenylhydrazine	1.7	J	10	0.063	ug/L		09/11/13 07:23	09/13/13 16:34	1
1,3-Dichlorobenzene	ND		10	0.069	ug/L		09/11/13 07:23	09/13/13 16:34	1
1,4-Dichlorobenzene	ND		10	0.090	ug/L		09/11/13 07:23	09/13/13 16:34	1
2,4,6-Trichlorophenol	ND		5.0	0.23	ug/L		09/11/13 07:23	09/13/13 16:34	1
2,4-Dichlorophenol	ND		5.0	0.30	ug/L		09/11/13 07:23	09/13/13 16:34	1
2,4-Dimethylphenol	3.0	J	5.0	0.13	ug/L		09/11/13 07:23	09/13/13 16:34	1
2,4-Dinitrophenol	ND		10	0.84	ug/L		09/11/13 07:23	09/13/13 16:34	1

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

Client Sample ID: Grab 090913

Lab Sample ID: 480-45417-4

Date Collected: 09/09/13 13:00

Matrix: Water

Date Received: 09/09/13 16:30

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		5.0	0.26	ug/L		09/11/13 07:23	09/13/13 16:34	1
2,6-Dinitrotoluene	ND		5.0	0.72	ug/L		09/11/13 07:23	09/13/13 16:34	1
2-Chloronaphthalene	ND		5.0	0.068	ug/L		09/11/13 07:23	09/13/13 16:34	1
2-Chlorophenol	ND		5.0	0.16	ug/L		09/11/13 07:23	09/13/13 16:34	1
2-Nitrophenol	ND		5.0	0.14	ug/L		09/11/13 07:23	09/13/13 16:34	1
3,3'-Dichlorobenzidine	ND	*	5.0	0.82	ug/L		09/11/13 07:23	09/13/13 16:34	1
4,6-Dinitro-2-methylphenol	ND		10	0.76	ug/L		09/11/13 07:23	09/13/13 16:34	1
4-Bromophenyl phenyl ether	ND		5.0	0.11	ug/L		09/11/13 07:23	09/13/13 16:34	1
4-Chloro-3-methylphenol	ND		5.0	0.56	ug/L		09/11/13 07:23	09/13/13 16:34	1
4-Chloroaniline	ND		5.0	0.69	ug/L		09/11/13 07:23	09/13/13 16:34	1
4-Chlorophenyl phenyl ether	ND		5.0	0.21	ug/L		09/11/13 07:23	09/13/13 16:34	1
4-Nitrophenol	ND		10	1.3	ug/L		09/11/13 07:23	09/13/13 16:34	1
Acenaphthene	ND		5.0	0.060	ug/L		09/11/13 07:23	09/13/13 16:34	1
Acenaphthylene	ND		5.0	0.034	ug/L		09/11/13 07:23	09/13/13 16:34	1
Anthracene	ND		5.0	0.052	ug/L		09/11/13 07:23	09/13/13 16:34	1
Benzidine	ND	*	80	2.5	ug/L		09/11/13 07:23	09/13/13 16:34	1
Benzo[a]anthracene	ND		5.0	0.043	ug/L		09/11/13 07:23	09/13/13 16:34	1
Benzo[a]pyrene	ND		5.0	0.058	ug/L		09/11/13 07:23	09/13/13 16:34	1
Benzo[b]fluoranthene	ND		5.0	0.062	ug/L		09/11/13 07:23	09/13/13 16:34	1
Benzo[g,h,i]perylene	ND		5.0	0.10	ug/L		09/11/13 07:23	09/13/13 16:34	1
Benzo[k]fluoranthene	ND		5.0	0.042	ug/L		09/11/13 07:23	09/13/13 16:34	1
bis (2-chloroisopropyl) ether	ND		5.0	0.086	ug/L		09/11/13 07:23	09/13/13 16:34	1
Bis(2-chloroethoxy)methane	ND		5.0	0.085	ug/L		09/11/13 07:23	09/13/13 16:34	1
Bis(2-chloroethyl)ether	ND		5.0	1.1	ug/L		09/11/13 07:23	09/13/13 16:34	1
Bis(2-ethylhexyl) phthalate	ND		10	0.86	ug/L		09/11/13 07:23	09/13/13 16:34	1
Butyl benzyl phthalate	ND		5.0	1.3	ug/L		09/11/13 07:23	09/13/13 16:34	1
Chrysene	ND		5.0	0.036	ug/L		09/11/13 07:23	09/13/13 16:34	1
Dibenz(a,h)anthracene	ND		5.0	0.055	ug/L		09/11/13 07:23	09/13/13 16:34	1
Diethyl phthalate	ND		5.0	0.17	ug/L		09/11/13 07:23	09/13/13 16:34	1
Dimethyl phthalate	ND		5.0	0.17	ug/L		09/11/13 07:23	09/13/13 16:34	1
Di-n-butyl phthalate	ND		5.0	0.94	ug/L		09/11/13 07:23	09/13/13 16:34	1
Di-n-octyl phthalate	ND		5.0	4.5	ug/L		09/11/13 07:23	09/13/13 16:34	1
Fluoranthene	ND		5.0	0.11	ug/L		09/11/13 07:23	09/13/13 16:34	1
Fluorene	ND		5.0	0.043	ug/L		09/11/13 07:23	09/13/13 16:34	1
Hexachlorobenzene	ND		5.0	0.28	ug/L		09/11/13 07:23	09/13/13 16:34	1
Hexachlorobutadiene	ND		5.0	0.62	ug/L		09/11/13 07:23	09/13/13 16:34	1
Hexachlorocyclopentadiene	ND		5.0	0.45	ug/L		09/11/13 07:23	09/13/13 16:34	1
Hexachloroethane	ND		5.0	0.48	ug/L		09/11/13 07:23	09/13/13 16:34	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.19	ug/L		09/11/13 07:23	09/13/13 16:34	1
Isophorone	ND		5.0	0.16	ug/L		09/11/13 07:23	09/13/13 16:34	1
Naphthalene	4.1	J	5.0	0.080	ug/L		09/11/13 07:23	09/13/13 16:34	1
Nitrobenzene	ND		5.0	0.11	ug/L		09/11/13 07:23	09/13/13 16:34	1
N-Nitrosodimethylamine	ND		10	0.96	ug/L		09/11/13 07:23	09/13/13 16:34	1
N-Nitrosodi-n-propylamine	ND		5.0	0.23	ug/L		09/11/13 07:23	09/13/13 16:34	1
N-Nitrosodiphenylamine	ND	*	5.0	0.40	ug/L		09/11/13 07:23	09/13/13 16:34	1
Pentachlorophenol	ND		10	0.41	ug/L		09/11/13 07:23	09/13/13 16:34	1
Phenanthrene	ND		5.0	0.071	ug/L		09/11/13 07:23	09/13/13 16:34	1
Phenol	ND		5.0	0.12	ug/L		09/11/13 07:23	09/13/13 16:34	1
Pyrene	ND		5.0	0.041	ug/L		09/11/13 07:23	09/13/13 16:34	1

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltft OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

Client Sample ID: Grab 090913

Lab Sample ID: 480-45417-4

Date Collected: 09/09/13 13:00

Matrix: Water

Date Received: 09/09/13 16:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	101		52 - 151	09/11/13 07:23	09/13/13 16:34	1
2-Fluorobiphenyl	79		44 - 120	09/11/13 07:23	09/13/13 16:34	1
2-Fluorophenol	39		17 - 120	09/11/13 07:23	09/13/13 16:34	1
Nitrobenzene-d5	76		42 - 120	09/11/13 07:23	09/13/13 16:34	1
Phenol-d5	27		10 - 120	09/11/13 07:23	09/13/13 16:34	1
p-Terphenyl-d14	79		22 - 125	09/11/13 07:23	09/13/13 16:34	1

Client Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

Client Sample ID: COMP 090913

Lab Sample ID: 480-45417-5

Date Collected: 09/09/13 13:15

Matrix: Water

Date Received: 09/09/13 16:30

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0057	J	0.010	0.0056	mg/L	—	09/11/13 08:40	09/12/13 03:32	1
Barium	0.28		0.0020	0.00070	mg/L	—	09/11/13 08:40	09/12/13 03:32	1
Chromium	0.0067		0.0040	0.0010	mg/L	—	09/11/13 08:40	09/12/13 03:32	1
Copper	0.022		0.010	0.0016	mg/L	—	09/11/13 08:40	09/12/13 03:32	1
Zinc	0.0043	J	0.010	0.0015	mg/L	—	09/11/13 08:40	09/12/13 03:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	0.30		0.050	0.025	mg/L	—		09/12/13 14:30	5
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	5.2		4.0	4.0	mg/L	—		09/10/13 16:14	1
pH	7.72	HF	0.100	0.100	SU	—		09/10/13 21:30	1

Client Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

Client Sample ID: TB 090913

Lab Sample ID: 480-45417-6

Date Collected: 09/09/13 13:20

Matrix: Water

Date Received: 09/09/13 16:30

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/10/13 22:21	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			09/10/13 22:21	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			09/10/13 22:21	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			09/10/13 22:21	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			09/10/13 22:21	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			09/10/13 22:21	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			09/10/13 22:21	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			09/10/13 22:21	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			09/10/13 22:21	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			09/10/13 22:21	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			09/10/13 22:21	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			09/10/13 22:21	1
Acrolein	ND		100	17	ug/L			09/10/13 22:21	1
Acrylonitrile	ND		25	1.9	ug/L			09/10/13 22:21	1
Benzene	ND		5.0	0.60	ug/L			09/10/13 22:21	1
Bromoform	ND		5.0	0.47	ug/L			09/10/13 22:21	1
Bromomethane	ND		5.0	1.2	ug/L			09/10/13 22:21	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			09/10/13 22:21	1
Chlorobenzene	ND		5.0	0.48	ug/L			09/10/13 22:21	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			09/10/13 22:21	1
Chloroethane	ND		5.0	0.87	ug/L			09/10/13 22:21	1
Chloroform	ND		5.0	0.54	ug/L			09/10/13 22:21	1
Chloromethane	ND		5.0	0.64	ug/L			09/10/13 22:21	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			09/10/13 22:21	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			09/10/13 22:21	1
Ethylbenzene	ND		5.0	0.46	ug/L			09/10/13 22:21	1
Methylene Chloride	ND		5.0	0.81	ug/L			09/10/13 22:21	1
Tetrachloroethene	ND		5.0	0.34	ug/L			09/10/13 22:21	1
Toluene	ND		5.0	0.45	ug/L			09/10/13 22:21	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			09/10/13 22:21	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			09/10/13 22:21	1
Trichloroethene	ND		5.0	0.60	ug/L			09/10/13 22:21	1
Vinyl chloride	ND		5.0	0.75	ug/L			09/10/13 22:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		72 - 130		09/10/13 22:21	1
4-Bromofluorobenzene (Surr)	97		69 - 121		09/10/13 22:21	1
Toluene-d8 (Surr)	103		70 - 123		09/10/13 22:21	1

TestAmerica Buffalo

Surrogate Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	12DCE (72-130)	BFB (69-121)	TOL (70-123)
480-45417-4	Grab 090913	100	97	105
480-45417-6	TB 090913	106	97	103
LCS 480-138183/6	Lab Control Sample	96	96	102
MB 480-138183/7	Method Blank	95	99	102

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBP (52-151)	FBP (44-120)	2FP (17-120)	NBZ (42-120)	PHL (10-120)	TPH (22-125)
480-45417-4	Grab 090913	101	79	39	76	27	79
LCS 480-138327/2-A	Lab Control Sample	93	78	39	74	30	83
LCSD 480-138327/3-A	Lab Control Sample Dup	92	79	42	75	32	86
MB 480-138327/1-A	Method Blank	92	80	43	76	33	93

Surrogate Legend

TBP = 2,4,6-Tribromophenol

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPH = p-Terphenyl-d14

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-138183/7

Matrix: Water

Analysis Batch: 138183

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/10/13 14:39	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			09/10/13 14:39	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			09/10/13 14:39	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			09/10/13 14:39	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			09/10/13 14:39	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			09/10/13 14:39	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			09/10/13 14:39	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			09/10/13 14:39	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			09/10/13 14:39	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			09/10/13 14:39	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			09/10/13 14:39	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			09/10/13 14:39	1
Acrolein	ND		100	17	ug/L			09/10/13 14:39	1
Acrylonitrile	ND		25	1.9	ug/L			09/10/13 14:39	1
Benzene	ND		5.0	0.60	ug/L			09/10/13 14:39	1
Bromoform	ND		5.0	0.47	ug/L			09/10/13 14:39	1
Bromomethane	ND		5.0	1.2	ug/L			09/10/13 14:39	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			09/10/13 14:39	1
Chlorobenzene	ND		5.0	0.48	ug/L			09/10/13 14:39	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			09/10/13 14:39	1
Chloroethane	ND		5.0	0.87	ug/L			09/10/13 14:39	1
Chloroform	ND		5.0	0.54	ug/L			09/10/13 14:39	1
Chloromethane	ND		5.0	0.64	ug/L			09/10/13 14:39	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			09/10/13 14:39	1
Dichlorobromomethane	ND		5.0	0.54	ug/L			09/10/13 14:39	1
Ethylbenzene	ND		5.0	0.46	ug/L			09/10/13 14:39	1
Methylene Chloride	ND		5.0	0.81	ug/L			09/10/13 14:39	1
Tetrachloroethene	ND		5.0	0.34	ug/L			09/10/13 14:39	1
Toluene	ND		5.0	0.45	ug/L			09/10/13 14:39	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			09/10/13 14:39	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			09/10/13 14:39	1
Trichloroethene	ND		5.0	0.60	ug/L			09/10/13 14:39	1
Vinyl chloride	ND		5.0	0.75	ug/L			09/10/13 14:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		72 - 130		09/10/13 14:39	1
4-Bromofluorobenzene (Surr)	99		69 - 121		09/10/13 14:39	1
Toluene-d8 (Surr)	102		70 - 123		09/10/13 14:39	1

Lab Sample ID: LCS 480-138183/6

Matrix: Water

Analysis Batch: 138183

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.3		ug/L		96	52 - 162
1,1,2,2-Tetrachloroethane	20.0	22.0		ug/L		110	46 - 157
1,1,2-Trichloroethane	20.0	19.8		ug/L		99	52 - 150
1,1-Dichloroethane	20.0	19.3		ug/L		96	59 - 155

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-138183/6

Matrix: Water

Analysis Batch: 138183

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	20.0	19.5		ug/L		97	1 - 234
1,2-Dichlorobenzene	20.0	22.7		ug/L		114	18 - 190
1,2-Dichloroethane	20.0	18.1		ug/L		91	49 - 155
1,2-Dichloropropane	20.0	20.0		ug/L		100	1 - 210
1,3-Dichlorobenzene	20.0	20.6		ug/L		103	59 - 156
1,4-Dichlorobenzene	20.0	20.6		ug/L		103	18 - 190
2-Chloroethyl vinyl ether	100	105		ug/L		105	1 - 305
Benzene	20.0	20.5		ug/L		103	37 - 151
Bromoform	20.0	14.8		ug/L		74	45 - 169
Bromomethane	20.0	25.8		ug/L		129	1 - 242
Carbon tetrachloride	20.0	17.8		ug/L		89	70 - 140
Chlorobenzene	20.0	20.1		ug/L		101	37 - 160
Chlorodibromomethane	20.0	16.3		ug/L		82	53 - 149
Chloroethane	20.0	22.7		ug/L		114	14 - 230
Chloroform	20.0	19.7		ug/L		98	51 - 138
Chloromethane	20.0	20.4		ug/L		102	1 - 273
cis-1,3-Dichloropropene	20.0	18.4		ug/L		92	1 - 227
Dichlorobromomethane	20.0	17.1		ug/L		85	35 - 155
Ethylbenzene	20.0	20.6		ug/L		103	37 - 162
Methylene Chloride	20.0	21.6		ug/L		108	1 - 221
Tetrachloroethene	20.0	19.4		ug/L		97	64 - 148
Toluene	20.0	20.2		ug/L		101	47 - 150
trans-1,2-Dichloroethene	20.0	19.3		ug/L		96	54 - 156
trans-1,3-Dichloropropene	20.0	17.2		ug/L		86	17 - 183
Trichloroethene	20.0	19.7		ug/L		99	71 - 157
Vinyl chloride	20.0	20.6		ug/L		103	1 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		72 - 130
4-Bromofluorobenzene (Surr)	96		69 - 121
Toluene-d8 (Surr)	102		70 - 123

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-138327/1-A

Matrix: Water

Analysis Batch: 138627

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 138327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	0.49	ug/L		09/11/13 07:23	09/12/13 14:26	1
1,2-Dichlorobenzene	ND		10	0.15	ug/L		09/11/13 07:23	09/12/13 14:26	1
1,2-Diphenylhydrazine	ND		10	0.063	ug/L		09/11/13 07:23	09/12/13 14:26	1
1,3-Dichlorobenzene	ND		10	0.069	ug/L		09/11/13 07:23	09/12/13 14:26	1
1,4-Dichlorobenzene	ND		10	0.090	ug/L		09/11/13 07:23	09/12/13 14:26	1
2,4,6-Trichlorophenol	ND		5.0	0.23	ug/L		09/11/13 07:23	09/12/13 14:26	1
2,4-Dichlorophenol	ND		5.0	0.30	ug/L		09/11/13 07:23	09/12/13 14:26	1
2,4-Dimethylphenol	ND		5.0	0.13	ug/L		09/11/13 07:23	09/12/13 14:26	1
2,4-Dinitrophenol	ND		10	0.84	ug/L		09/11/13 07:23	09/12/13 14:26	1

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-138327/1-A

Matrix: Water

Analysis Batch: 138627

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 138327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		5.0	0.26	ug/L		09/11/13 07:23	09/12/13 14:26	1
2,6-Dinitrotoluene	ND		5.0	0.72	ug/L		09/11/13 07:23	09/12/13 14:26	1
2-Chloronaphthalene	ND		5.0	0.068	ug/L		09/11/13 07:23	09/12/13 14:26	1
2-Chlorophenol	ND		5.0	0.16	ug/L		09/11/13 07:23	09/12/13 14:26	1
2-Nitrophenol	ND		5.0	0.14	ug/L		09/11/13 07:23	09/12/13 14:26	1
3,3'-Dichlorobenzidine	ND		5.0	0.82	ug/L		09/11/13 07:23	09/12/13 14:26	1
4,6-Dinitro-2-methylphenol	ND		10	0.76	ug/L		09/11/13 07:23	09/12/13 14:26	1
4-Bromophenyl phenyl ether	ND		5.0	0.11	ug/L		09/11/13 07:23	09/12/13 14:26	1
4-Chloro-3-methylphenol	ND		5.0	0.56	ug/L		09/11/13 07:23	09/12/13 14:26	1
4-Chloroaniline	ND		5.0	0.69	ug/L		09/11/13 07:23	09/12/13 14:26	1
4-Chlorophenyl phenyl ether	ND		5.0	0.21	ug/L		09/11/13 07:23	09/12/13 14:26	1
4-Nitrophenol	ND		10	1.3	ug/L		09/11/13 07:23	09/12/13 14:26	1
Acenaphthene	ND		5.0	0.060	ug/L		09/11/13 07:23	09/12/13 14:26	1
Acenaphthylene	ND		5.0	0.034	ug/L		09/11/13 07:23	09/12/13 14:26	1
Anthracene	ND		5.0	0.052	ug/L		09/11/13 07:23	09/12/13 14:26	1
Benzidine	ND		80	2.5	ug/L		09/11/13 07:23	09/12/13 14:26	1
Benzo[a]anthracene	ND		5.0	0.043	ug/L		09/11/13 07:23	09/12/13 14:26	1
Benzo[a]pyrene	ND		5.0	0.058	ug/L		09/11/13 07:23	09/12/13 14:26	1
Benzo[b]fluoranthene	ND		5.0	0.062	ug/L		09/11/13 07:23	09/12/13 14:26	1
Benzo[g,h,i]perylene	ND		5.0	0.10	ug/L		09/11/13 07:23	09/12/13 14:26	1
Benzo[k]fluoranthene	ND		5.0	0.042	ug/L		09/11/13 07:23	09/12/13 14:26	1
bis (2-chloroisopropyl) ether	ND		5.0	0.086	ug/L		09/11/13 07:23	09/12/13 14:26	1
Bis(2-chloroethoxy)methane	ND		5.0	0.085	ug/L		09/11/13 07:23	09/12/13 14:26	1
Bis(2-chloroethyl)ether	ND		5.0	1.1	ug/L		09/11/13 07:23	09/12/13 14:26	1
Bis(2-ethylhexyl) phthalate	ND		10	0.86	ug/L		09/11/13 07:23	09/12/13 14:26	1
Butyl benzyl phthalate	ND		5.0	1.3	ug/L		09/11/13 07:23	09/12/13 14:26	1
Chrysene	ND		5.0	0.036	ug/L		09/11/13 07:23	09/12/13 14:26	1
Dibenz(a,h)anthracene	ND		5.0	0.055	ug/L		09/11/13 07:23	09/12/13 14:26	1
Diethyl phthalate	ND		5.0	0.17	ug/L		09/11/13 07:23	09/12/13 14:26	1
Dimethyl phthalate	ND		5.0	0.17	ug/L		09/11/13 07:23	09/12/13 14:26	1
Di-n-butyl phthalate	ND		5.0	0.94	ug/L		09/11/13 07:23	09/12/13 14:26	1
Di-n-octyl phthalate	ND		5.0	4.5	ug/L		09/11/13 07:23	09/12/13 14:26	1
Fluoranthene	ND		5.0	0.11	ug/L		09/11/13 07:23	09/12/13 14:26	1
Fluorene	ND		5.0	0.043	ug/L		09/11/13 07:23	09/12/13 14:26	1
Hexachlorobenzene	ND		5.0	0.28	ug/L		09/11/13 07:23	09/12/13 14:26	1
Hexachlorobutadiene	ND		5.0	0.62	ug/L		09/11/13 07:23	09/12/13 14:26	1
Hexachlorocyclopentadiene	ND		5.0	0.45	ug/L		09/11/13 07:23	09/12/13 14:26	1
Hexachloroethane	ND		5.0	0.48	ug/L		09/11/13 07:23	09/12/13 14:26	1
Indeno[1,2,3-cd]pyrene	ND		5.0	0.19	ug/L		09/11/13 07:23	09/12/13 14:26	1
Isophorone	ND		5.0	0.16	ug/L		09/11/13 07:23	09/12/13 14:26	1
Naphthalene	ND		5.0	0.080	ug/L		09/11/13 07:23	09/12/13 14:26	1
Nitrobenzene	ND		5.0	0.11	ug/L		09/11/13 07:23	09/12/13 14:26	1
N-Nitrosodimethylamine	ND		10	0.96	ug/L		09/11/13 07:23	09/12/13 14:26	1
N-Nitrosodi-n-propylamine	ND		5.0	0.23	ug/L		09/11/13 07:23	09/12/13 14:26	1
N-Nitrosodiphenylamine	ND		5.0	0.40	ug/L		09/11/13 07:23	09/12/13 14:26	1
Pentachlorophenol	ND		10	0.41	ug/L		09/11/13 07:23	09/12/13 14:26	1
Phenanthrene	ND		5.0	0.071	ug/L		09/11/13 07:23	09/12/13 14:26	1
Phenol	ND		5.0	0.12	ug/L		09/11/13 07:23	09/12/13 14:26	1

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-138327/1-A

Matrix: Water

Analysis Batch: 138627

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 138327

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		5.0	0.041	ug/L		09/11/13 07:23	09/12/13 14:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	92		52 - 151	09/11/13 07:23	09/12/13 14:26	1
2-Fluorobiphenyl	80		44 - 120	09/11/13 07:23	09/12/13 14:26	1
2-Fluorophenol	43		17 - 120	09/11/13 07:23	09/12/13 14:26	1
Nitrobenzene-d5	76		42 - 120	09/11/13 07:23	09/12/13 14:26	1
Phenol-d5	33		10 - 120	09/11/13 07:23	09/12/13 14:26	1
p-Terphenyl-d14	93		22 - 125	09/11/13 07:23	09/12/13 14:26	1

Lab Sample ID: LCS 480-138327/2-A

Matrix: Water

Analysis Batch: 138627

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 138327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	35.7		ug/L		71	44 - 142
1,2-Dichlorobenzene	50.0	33.9		ug/L		68	32 - 129
1,3-Dichlorobenzene	50.0	32.5		ug/L		65	1 - 172
1,4-Dichlorobenzene	50.0	32.6		ug/L		65	20 - 124
2,4,6-Trichlorophenol	50.0	42.8		ug/L		86	37 - 144
2,4-Dichlorophenol	50.0	43.6		ug/L		87	39 - 135
2,4-Dimethylphenol	50.0	40.4		ug/L		81	32 - 119
2,4-Dinitrophenol	100	108		ug/L		108	1 - 191
2,4-Dinitrotoluene	50.0	52.3		ug/L		105	39 - 139
2,6-Dinitrotoluene	50.0	49.3		ug/L		99	50 - 158
2-Chloronaphthalene	50.0	39.7		ug/L		79	60 - 118
2-Chlorophenol	50.0	34.1		ug/L		68	23 - 134
2-Nitrophenol	50.0	41.8		ug/L		84	29 - 182
3,3'-Dichlorobenzidine	50.0	76.9		ug/L		154	1 - 262
4,6-Dinitro-2-methylphenol	100	95.8		ug/L		96	1 - 181
4-Bromophenyl phenyl ether	50.0	44.5		ug/L		89	53 - 127
4-Chloro-3-methylphenol	50.0	44.9		ug/L		90	22 - 147
4-Chlorophenyl phenyl ether	50.0	43.0		ug/L		86	25 - 158
4-Nitrophenol	100	44.3		ug/L		44	1 - 132
Acenaphthene	50.0	42.7		ug/L		85	47 - 145
Acenaphthylene	50.0	42.2		ug/L		84	33 - 145
Anthracene	50.0	45.9		ug/L		92	27 - 133
Benzo[a]anthracene	50.0	43.7		ug/L		87	33 - 143
Benzo[a]pyrene	50.0	42.7		ug/L		85	17 - 163
Benzo[b]fluoranthene	50.0	43.6		ug/L		87	24 - 159
Benzo[g,h,i]perylene	50.0	54.7		ug/L		109	1 - 219
Benzo[k]fluoranthene	50.0	43.4		ug/L		87	11 - 162
bis (2-chloroisopropyl) ether	50.0	37.3		ug/L		75	36 - 166
Bis(2-chloroethoxy)methane	50.0	40.9		ug/L		82	33 - 184
Bis(2-chloroethyl)ether	50.0	37.0		ug/L		74	12 - 158
Bis(2-ethylhexyl) phthalate	50.0	42.4		ug/L		85	8 - 158
Butyl benzyl phthalate	50.0	44.4		ug/L		89	1 - 152
Chrysene	50.0	43.8		ug/L		88	17 - 168

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-138327/2-A

Matrix: Water

Analysis Batch: 138627

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 138327

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibenz(a,h)anthracene	50.0	51.4		ug/L		103	1 - 227
Diethyl phthalate	50.0	46.2		ug/L		92	1 - 114
Dimethyl phthalate	50.0	44.9		ug/L		90	1 - 112
Di-n-butyl phthalate	50.0	45.7		ug/L		91	1 - 118
Di-n-octyl phthalate	50.0	43.1		ug/L		86	4 - 146
Fluoranthene	50.0	46.4		ug/L		93	26 - 137
Fluorene	50.0	44.2		ug/L		88	59 - 121
Hexachlorobenzene	50.0	43.3		ug/L		87	1 - 152
Hexachlorocyclopentadiene	50.0	27.0		ug/L		54	5 - 120
Hexachloroethane	50.0	31.5		ug/L		63	40 - 113
Indeno[1,2,3-cd]pyrene	50.0	51.4		ug/L		103	1 - 171
Isophorone	50.0	40.2		ug/L		80	21 - 196
Naphthalene	50.0	38.3		ug/L		77	21 - 133
Nitrobenzene	50.0	39.6		ug/L		79	35 - 180
N-Nitrosodi-n-propylamine	50.0	40.9		ug/L		82	1 - 230
N-Nitrosodiphenylamine	50.0	40.8		ug/L		82	54 - 125
Pentachlorophenol	100	91.3		ug/L		91	14 - 176
Phenanthrene	50.0	46.9		ug/L		94	54 - 120
Phenol	50.0	18.6		ug/L		37	5 - 112
Pyrene	50.0	47.3		ug/L		95	52 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol	93		52 - 151
2-Fluorobiphenyl	78		44 - 120
2-Fluorophenol	39		17 - 120
Nitrobenzene-d5	74		42 - 120
Phenol-d5	30		10 - 120
p-Terphenyl-d14	83		22 - 125

Lab Sample ID: LCSD 480-138327/3-A

Matrix: Water

Analysis Batch: 138627

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 138327

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,2,4-Trichlorobenzene	50.0	36.9		ug/L		74	44 - 142	3	34
1,2-Dichlorobenzene	50.0	36.1		ug/L		72	32 - 129	6	38
1,3-Dichlorobenzene	50.0	33.7		ug/L		67	1 - 172	4	37
1,4-Dichlorobenzene	50.0	34.5		ug/L		69	20 - 124	6	40
2,4,6-Trichlorophenol	50.0	44.6		ug/L		89	37 - 144	4	20
2,4-Dichlorophenol	50.0	44.5		ug/L		89	39 - 135	2	23
2,4-Dimethylphenol	50.0	41.5		ug/L		83	32 - 119	3	18
2,4-Dinitrophenol	100	113		ug/L		113	1 - 191	4	29
2,4-Dinitrotoluene	50.0	53.6		ug/L		107	39 - 139	2	20
2,6-Dinitrotoluene	50.0	50.0		ug/L		100	50 - 158	2	17
2-Chloronaphthalene	50.0	41.4		ug/L		83	60 - 118	4	30
2-Chlorophenol	50.0	36.8		ug/L		74	23 - 134	8	26
2-Nitrophenol	50.0	44.1		ug/L		88	29 - 182	6	28
3,3'-Dichlorobenzidine	50.0	39.4	*	ug/L		79	1 - 262	65	31

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-138327/3-A

Matrix: Water

Analysis Batch: 138627

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 138327

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,6-Dinitro-2-methylphenol	100	99.0		ug/L		99	1 - 181	3	30
4-Bromophenyl phenyl ether	50.0	45.1		ug/L		90	53 - 127	1	16
4-Chloro-3-methylphenol	50.0	46.4		ug/L		93	22 - 147	3	16
4-Chlorophenyl phenyl ether	50.0	44.6		ug/L		89	25 - 158	4	15
4-Nitrophenol	100	47.7		ug/L		48	1 - 132	7	24
Acenaphthene	50.0	43.6		ug/L		87	47 - 145	2	25
Acenaphthylene	50.0	43.0		ug/L		86	33 - 145	2	22
Anthracene	50.0	46.8		ug/L		94	27 - 133	2	15
Benzo[a]anthracene	50.0	45.6		ug/L		91	33 - 143	4	15
Benzo[a]pyrene	50.0	44.7		ug/L		89	17 - 163	5	15
Benzo[b]fluoranthene	50.0	46.0		ug/L		92	24 - 159	5	17
Benzo[g,h,i]perylene	50.0	57.2		ug/L		114	1 - 219	4	19
Benzo[k]fluoranthene	50.0	45.0		ug/L		90	11 - 162	4	19
bis (2-chloroisopropyl) ether	50.0	39.5		ug/L		79	36 - 166	6	36
Bis(2-chloroethoxy)methane	50.0	42.1		ug/L		84	33 - 184	3	23
Bis(2-chloroethyl)ether	50.0	39.7		ug/L		79	12 - 158	7	33
Bis(2-ethylhexyl) phthalate	50.0	44.5		ug/L		89	8 - 158	5	15
Butyl benzyl phthalate	50.0	46.2		ug/L		92	1 - 152	4	15
Chrysene	50.0	45.3		ug/L		91	17 - 168	4	15
Dibenz(a,h)anthracene	50.0	53.8		ug/L		108	1 - 227	4	18
Diethyl phthalate	50.0	47.6		ug/L		95	1 - 114	3	15
Dimethyl phthalate	50.0	46.6		ug/L		93	1 - 112	4	15
Di-n-butyl phthalate	50.0	46.1		ug/L		92	1 - 118	1	15
Di-n-octyl phthalate	50.0	45.2		ug/L		90	4 - 146	5	15
Fluoranthene	50.0	47.2		ug/L		94	26 - 137	2	15
Fluorene	50.0	45.0		ug/L		90	59 - 121	2	18
Hexachlorobenzene	50.0	45.6		ug/L		91	1 - 152	5	15
Hexachlorocyclopentadiene	50.0	28.8		ug/L		58	5 - 120	7	50
Hexachloroethane	50.0	34.3		ug/L		69	40 - 113	9	43
Indeno[1,2,3-cd]pyrene	50.0	53.4		ug/L		107	1 - 171	4	17
Isophorone	50.0	41.3		ug/L		83	21 - 196	3	21
Naphthalene	50.0	39.6		ug/L		79	21 - 133	3	31
Nitrobenzene	50.0	41.7		ug/L		83	35 - 180	5	27
N-Nitrosodi-n-propylamine	50.0	42.4		ug/L		85	1 - 230	4	23
N-Nitrosodiphenylamine	50.0	20.7	*	ug/L		41	54 - 125	65	15
Pentachlorophenol	100	91.2		ug/L		91	14 - 176	0	21
Phenanthrene	50.0	47.2		ug/L		94	54 - 120	1	16
Phenol	50.0	19.6		ug/L		39	5 - 112	5	36
Pyrene	50.0	48.9		ug/L		98	52 - 115	3	15

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol	92		52 - 151
2-Fluorobiphenyl	79		44 - 120
2-Fluorophenol	42		17 - 120
Nitrobenzene-d5	75		42 - 120
Phenol-d5	32		10 - 120
p-Terphenyl-d14	86		22 - 125

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-138328/1-A

Matrix: Water

Analysis Batch: 138593

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 138328

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0056	mg/L		09/11/13 08:40	09/12/13 03:09	1
Barium	ND		0.0020	0.00070	mg/L		09/11/13 08:40	09/12/13 03:09	1
Chromium	ND		0.0040	0.0010	mg/L		09/11/13 08:40	09/12/13 03:09	1
Copper	ND		0.010	0.0016	mg/L		09/11/13 08:40	09/12/13 03:09	1
Zinc	ND		0.010	0.0015	mg/L		09/11/13 08:40	09/12/13 03:09	1

Lab Sample ID: LCS 480-138328/2-A

Matrix: Water

Analysis Batch: 138593

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 138328

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.199		mg/L		99	85 - 115
Barium	0.200	0.203		mg/L		102	85 - 115
Chromium	0.200	0.202		mg/L		101	85 - 115
Copper	0.200	0.197		mg/L		98	85 - 115
Zinc	0.200	0.194		mg/L		97	85 - 115

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-138247/1

Matrix: Water

Analysis Batch: 138247

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			09/10/13 15:59	1

Lab Sample ID: LCS 480-138247/2

Matrix: Water

Analysis Batch: 138247

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	220	214.8		mg/L		97	88 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-138308/1

Matrix: Water

Analysis Batch: 138308

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	6.970		SU		100	99 - 101

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

Method: SM 4500 P E - Phosphorus

Lab Sample ID: MB 480-138716/3

Matrix: Water

Analysis Batch: 138716

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phosphorus, Total	ND		0.010	0.0050	mg/L			09/12/13 14:30	1

Lab Sample ID: LCS 480-138716/4

Matrix: Water

Analysis Batch: 138716

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus, Total	0.200	0.200		mg/L		100	90 - 110

QC Association Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

GC/MS VOA

Analysis Batch: 138183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-45417-4	Grab 090913	Total/NA	Water	624	
480-45417-6	TB 090913	Total/NA	Water	624	
LCS 480-138183/6	Lab Control Sample	Total/NA	Water	624	
MB 480-138183/7	Method Blank	Total/NA	Water	624	

GC/MS Semi VOA

Prep Batch: 138327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-45417-4	Grab 090913	Total/NA	Water	625	
LCS 480-138327/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-138327/3-A	Lab Control Sample Dup	Total/NA	Water	625	
MB 480-138327/1-A	Method Blank	Total/NA	Water	625	

Analysis Batch: 138627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-138327/2-A	Lab Control Sample	Total/NA	Water	625	138327
LCSD 480-138327/3-A	Lab Control Sample Dup	Total/NA	Water	625	138327
MB 480-138327/1-A	Method Blank	Total/NA	Water	625	138327

Analysis Batch: 138890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-45417-4	Grab 090913	Total/NA	Water	625	138327

Metals

Prep Batch: 138328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-45417-5	COMP 090913	Total/NA	Water	200.7	
LCS 480-138328/2-A	Lab Control Sample	Total/NA	Water	200.7	
MB 480-138328/1-A	Method Blank	Total/NA	Water	200.7	

Analysis Batch: 138593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-45417-5	COMP 090913	Total/NA	Water	200.7 Rev 4.4	138328
LCS 480-138328/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	138328
MB 480-138328/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	138328

General Chemistry

Analysis Batch: 138247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-45417-5	COMP 090913	Total/NA	Water	SM 2540D	
LCS 480-138247/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-138247/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 138308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-45417-5	COMP 090913	Total/NA	Water	SM 4500 H+ B	
LCS 480-138308/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

TestAmerica Buffalo

QC Association Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltft OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

General Chemistry (Continued)

Analysis Batch: 138716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-45417-5	COMP 090913	Total/NA	Water	SM 4500 P E	
LCS 480-138716/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	
MB 480-138716/3	Method Blank	Total/NA	Water	SM 4500 P E	

Lab Chronicle

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

Client Sample ID: Grab 090913

Date Collected: 09/09/13 13:00

Date Received: 09/09/13 16:30

Lab Sample ID: 480-45417-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		4	138183	09/10/13 21:58	CDC	TAL BUF
Total/NA	Prep	625			138327	09/11/13 07:23	DLE	TAL BUF
Total/NA	Analysis	625		1	138890	09/13/13 16:34	ANM	TAL BUF

Client Sample ID: COMP 090913

Date Collected: 09/09/13 13:15

Date Received: 09/09/13 16:30

Lab Sample ID: 480-45417-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			138328	09/11/13 08:40	NMD2	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	138593	09/12/13 03:32	LMH	TAL BUF
Total/NA	Analysis	SM 2540D		1	138247	09/10/13 16:14	KS	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	138308	09/10/13 21:30	KS	TAL BUF
Total/NA	Analysis	SM 4500 P E		5	138716	09/12/13 14:30	KMF	TAL BUF

Client Sample ID: TB 090913

Date Collected: 09/09/13 13:20

Date Received: 09/09/13 16:30

Lab Sample ID: 480-45417-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	138183	09/10/13 22:21	CDC	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	10-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-14

Method Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltft OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
SM 4500 P E	Phosphorus	SM	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltft OM Phase / Semi Annual

TestAmerica Job ID: 480-45417-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-45417-4	Grab 090913	Water	09/09/13 13:00	09/09/13 16:30
480-45417-5	COMP 090913	Water	09/09/13 13:15	09/09/13 16:30
480-45417-6	TB 090913	Water	09/09/13 13:20	09/09/13 16:30

Chain of Custody Record

Client Information		Sampler: Patrick Higgins		Lab PM: John Schove		Carrier Tracking No(s):		COC No: 480-21387-2026.1	
Client Contact: John Formoza		Phone: 315-468-1663		E-Mail:				Page: Page 1 of 1	
Company: Honeywell International Inc		Due Date Requested: 2 Weeks		TAT Requested (days):				Job #:	
Address: 1563 Willis Ave.		City: Syracuse		State: NY		Zip: 13204		Preservation Codes:	
Phone: 315-468-1663		PO #: 4500073922		WO #:				A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsHClO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Project Name: Honeywell - Alltiff OM phase / Semi Annual		Project #: 48003159		SSOW#:				Other:	
Site: Honeywell - Buffalo Sites									
Location Identification		Sample Identification		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
BSA Discharge		GRAB 1 090913		9/09/13		7:00		G	
BSA Discharge		GRAB 2 090913		9/09/13		9:00		G	
BSA Discharge		GRAB 3 090913		9/09/13		11:00		G	
BSA Discharge		GRAB 4 090913		9/09/13		13:00		G	
BSA Discharge		COMP 090913		9/09/13		13:05		C	
TRIPBLANK		090913TB		9/09/13		13:20			
Possible Hazard Identification		Flammable		Toxic		Corrosive		Reactive	
Deliverable Requested: I, II, III, IV, Other (specify)		Skim Tritant		Poison B		Unknown		Radiological	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:		Special Instructions/QC Requirements:	
Relinquished by: Patrick C. Higgins		Date/Time: 0909201630		Company: Honeywell		Received by: [Signature]		Date/Time: 9/9/13 1630	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: Yes ☐ No ☐		Custody Seal No.: 4		Cooler Temperature(s) °C and Other Remarks: 4.0 #1					

Login Sample Receipt Checklist

Client: Honeywell International Inc

Job Number: 480-45417-1

Login Number: 45417

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	False	lab comp
Sampling Company provided.	True	omi
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

APPENDIX C

MONTHLY WATER LEVEL MEASUREMENTS

Alltft Landfill
Buffalo, New York

Piezometer Readings (DTW, ft)	10-Jan-13	14-Feb-13	28-Mar-13	7-May-13	21-May-13	2-Jul-13	11-Sep-13	24-Oct-13	15-Nov-13	15-Jan-14
PZ-1		6.70			6.83		6.95	6.50		9.41
PZ-2		7.95			7.95		8.10	8.31		9.20
PZ-3		9.68			9.75		10.18	10.03		10.10
PZ-4		6.22			6.40		6.66	6.21		7.62
PZ-5		6.91			9.95		7.20	7.26		8.00
PZ-6		9.74			8.83		9.38	9.00		9.00
PZ-7		8.61			7.70		8.48	7.81		7.80
PZ-8		7.63			6.57		7.04	6.43		6.38
PZ-9		6.66			7.19		8.30	6.62		6.55
PZ-10		9.06			9.90		10.25	7.70		7.55
PZ-11		9.36			8.10		8.90	7.61		7.00
PZ-12		10.05			9.00		10.00	7.85		7.40
PZ-13		4.48			7.49		8.40	5.81		4.95
PZ-14		Dry			dry		dry	dry		dry
PZ-15		8.32			6.78		8.00	8.00		7.77
PZ-16		Dry			dry		dry	dry		dry

Groundwater Collection Trench Sumps (DTW, ft)

GWCT-1		6.48			7.30		9.45	7.50		10.35
GWCT-2		12.75			7.25		12.54	13.20		12.38
GWCT-3		8.61			8.63		9.25	8.78		8.75
GWCT-4		6.80			7.10		7.95	7.00		6.88

Relief Trench Sumps (DTW, ft)

GWR-1		8.21			7.31		8.35	6.70		9.92
GWR-2		8.19			7.22		8.35	6.71		5.75

Lift Station (DTW, ft)

Lift		11.77			7.40		10.80	7.90		

Offsite Background Wells (DTW, ft)

MW-1		n/a			n/a		n/a	n/a		
MW-2		6.01			7.4		11.1			

APPENDIX D

QUARTERLY GROUNDWATER ELEVATIONS

SUMMARY OF 2013 through 2014 QUARTERLY GROUNDWATER ELEVATIONS

ALLTIFT LANDFILL SITE

BUFFALO, NEW YORK

			2/14/2013		5/21/2013		9/11/2013		10/24/2013		1/15/2014	
MONITORING POINT	TOTAL DEPTH (FT.)	TOP OF CASING ELEVATION	DEPTH TO WATER	GROUND WATER ELEVATION	DEPTH TO WATER	GROUND WATER ELEVATION	DEPTH TO WATER	GROUND WATER ELEVATION	DEPTH TO WATER	GROUND WATER ELEVATION	DEPTH TO WATER	GROUND WATER ELEVATION
PIEZOMETERS												
PZ-1	16.8	585.01	6.70	578.31	6.83	578.18	6.95	578.06	6.50	578.51	9.41	575.60
PZ-2	16.9	584.96	7.95	577.01	7.95	577.01	8.10	576.86	8.31	576.65	9.20	575.76
PZ-3	16.9	585.05	9.68	575.37	9.75	575.30	10.18	574.87	10.03	575.02	10.10	574.95
PZ-4	16.6	585.79	6.22	579.57	6.40	579.39	6.66	579.13	6.21	579.58	7.62	578.17
PZ-5	16.9	584.52	6.91	577.61	9.95	574.57	7.20	577.32	7.26	577.26	8.00	576.52
PZ-6	17.8	584.74	9.74	575.00	8.83	575.91	9.38	575.36	9.00	575.74	9.00	575.74
PZ-7	20.0	584.99	8.61	576.38	7.70	577.29	8.48	576.51	7.81	577.18	7.80	577.19
PZ-8	20.7	584.48	7.63	576.85	6.57	577.91	7.04	577.44	6.43	578.05	6.38	578.10
PZ-9	15.1	586.86	6.66	580.20	7.19	579.67	8.30	578.56	6.62	580.24	6.55	580.31
PZ-10	11.5	589.41	9.06	580.35	9.90	579.51	10.25	589.41	7.70	581.71	7.55	581.86
PZ-11	19.5	594.72	9.36	585.36	8.10	586.62	8.90	585.82	7.61	587.11	7.00	587.72
PZ-12	21.8	592.78	10.05	582.73	9.00	583.78	10.00	582.78	7.85	584.93	7.40	585.38
PZ-13	22.5	589.04	4.48	584.56	7.49	581.55	8.40	580.64	5.81	583.23	4.95	584.09
PZ-14	55.0	619.11	dry	*	dry	*	dry	*	dry	*	dry	*
PZ-15	17.0	588.79	8.32	580.47	6.78	582.01	8.00	580.79	8.00	580.79	7.77	581.02
PZ-16	66.5	629.30	dry	**	dry	**	dry	**	dry	**	dry	**
BACKGROUND WELLS												
MW-1	20.4	585.22	NM	***	NM	***	NM	***	NM	***	NM	***
MW-2	17.0	586.67	6.01	580.66	7.40	573.26	11.10	562.16	NM	NM	NM	NM
GROUNDWATER COLLECTION TRENCH SUMPS												
S1	17.2	585.19	6.48	578.71	7.30	577.89	9.45	575.74	7.50	577.69	10.35	574.84
S2	24.8	585.45	12.75	572.70	7.25	578.20	12.54	572.91	13.20	572.25	12.38	573.07
S3	17.3	585.25	8.61	576.64	8.63	576.62	9.25	576.00	8.78	576.47	8.75	576.50
S4	17.8	585.00	6.80	578.20	7.10	577.90	7.95	577.05	7.00	578.00	6.88	578.12

*PZ-14 riser pipe damaged; no depth to water level measurement possible. Tape stops at 10.29 feet below top of casing.

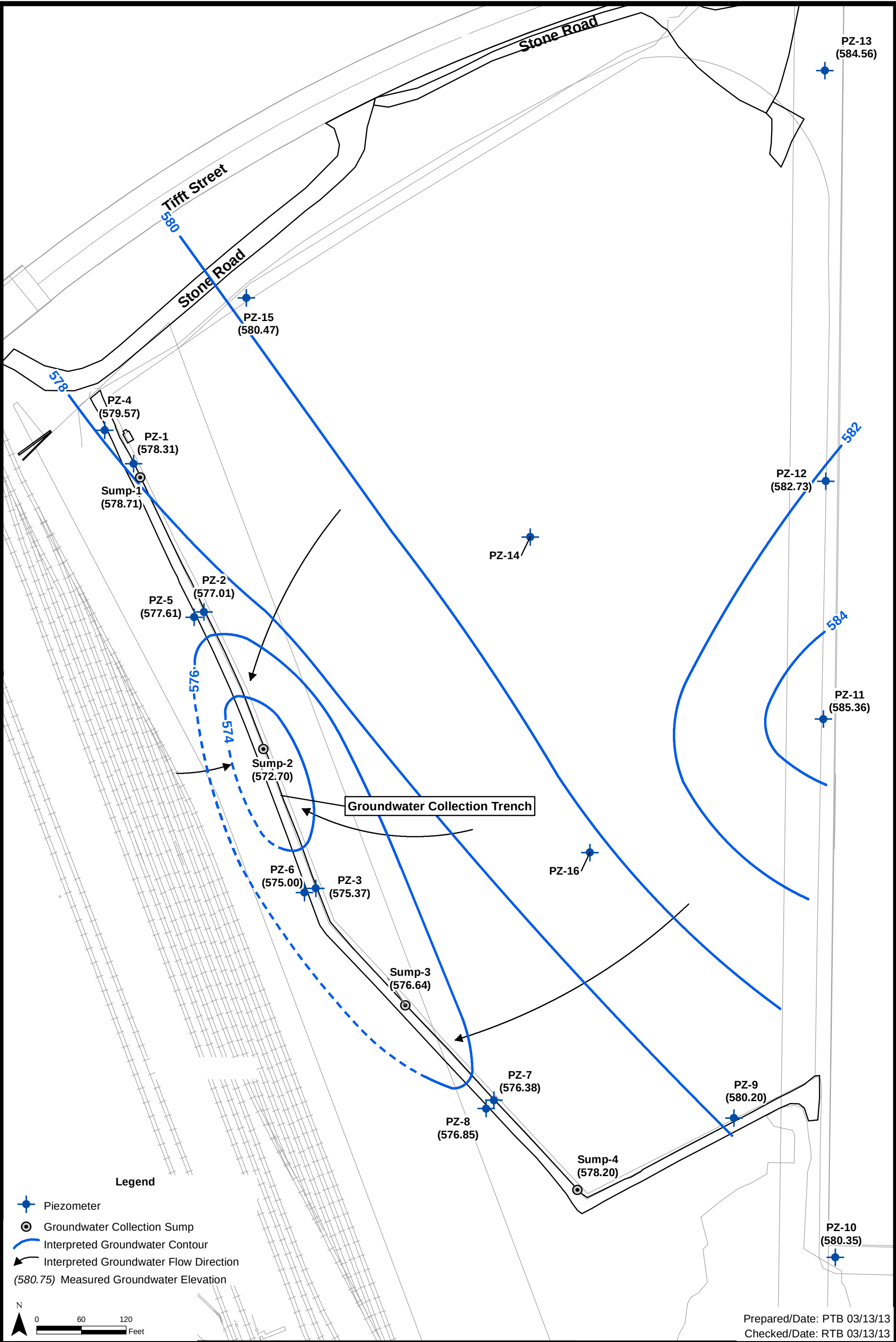
**PZ-16: Tape stops at 32.50 feet below top of casing; indicates that the well is dry at this level.

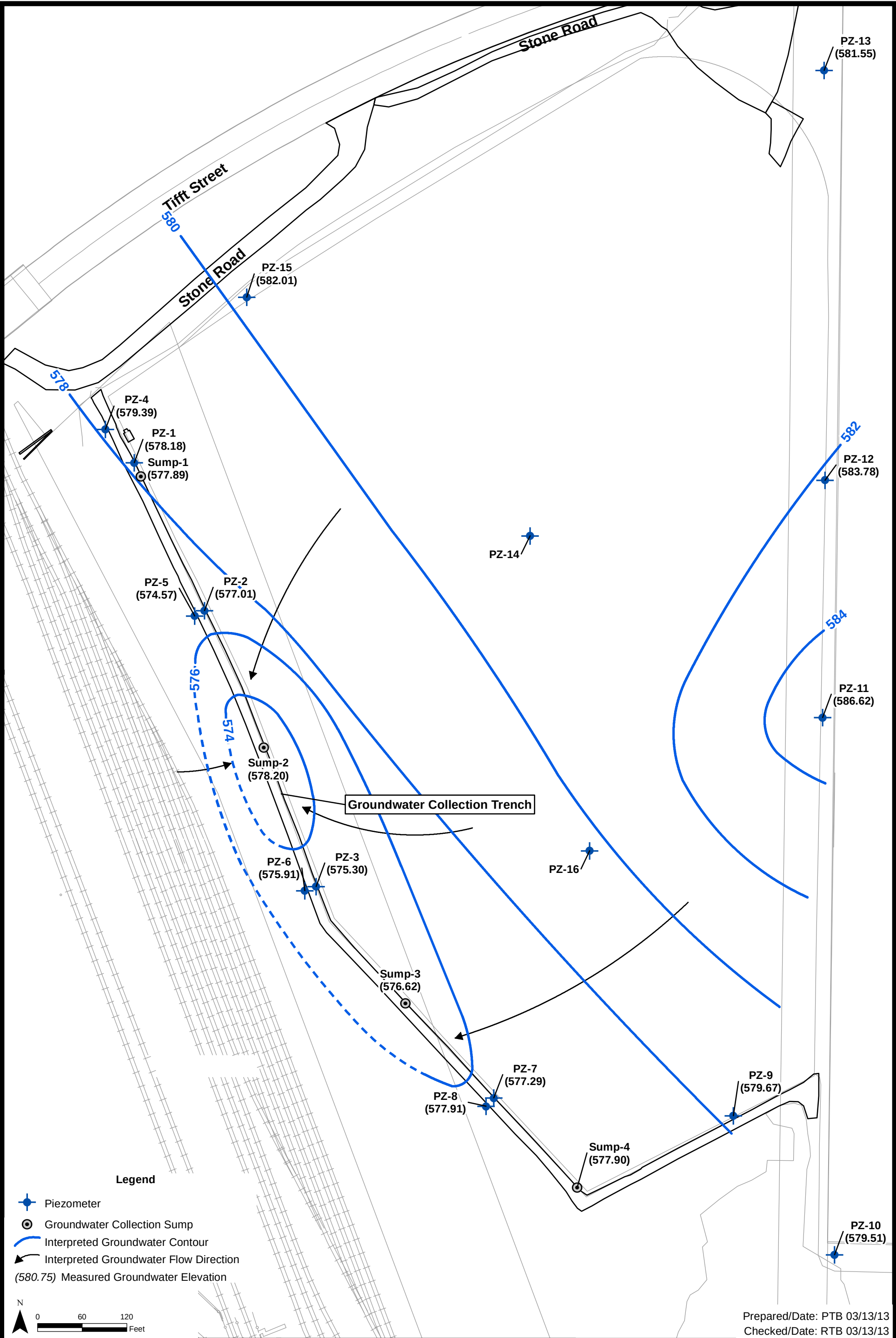
***Background well MW-1 removed or paved over by property owner sometime after July 2006 site visit.

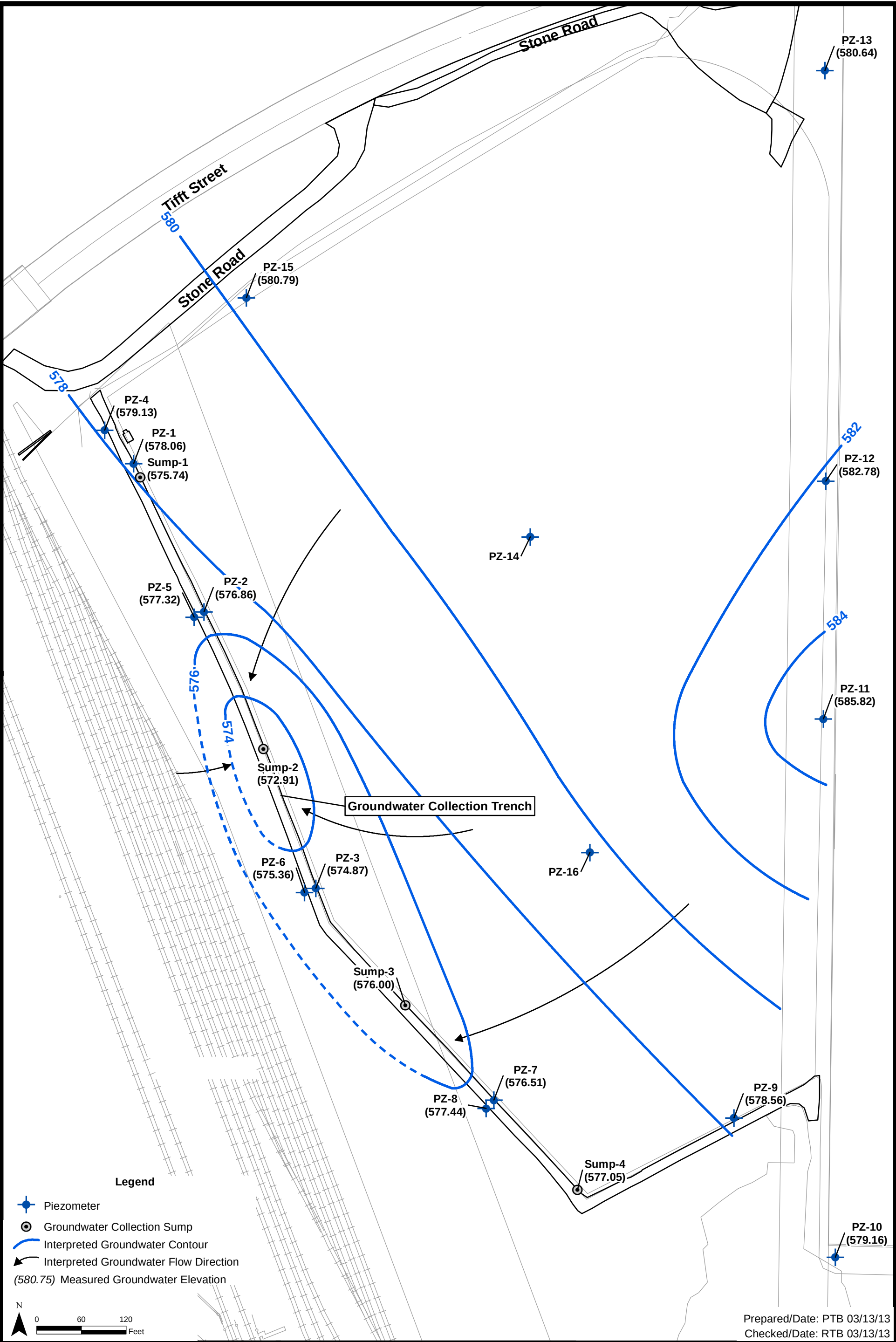
NM - Not measured

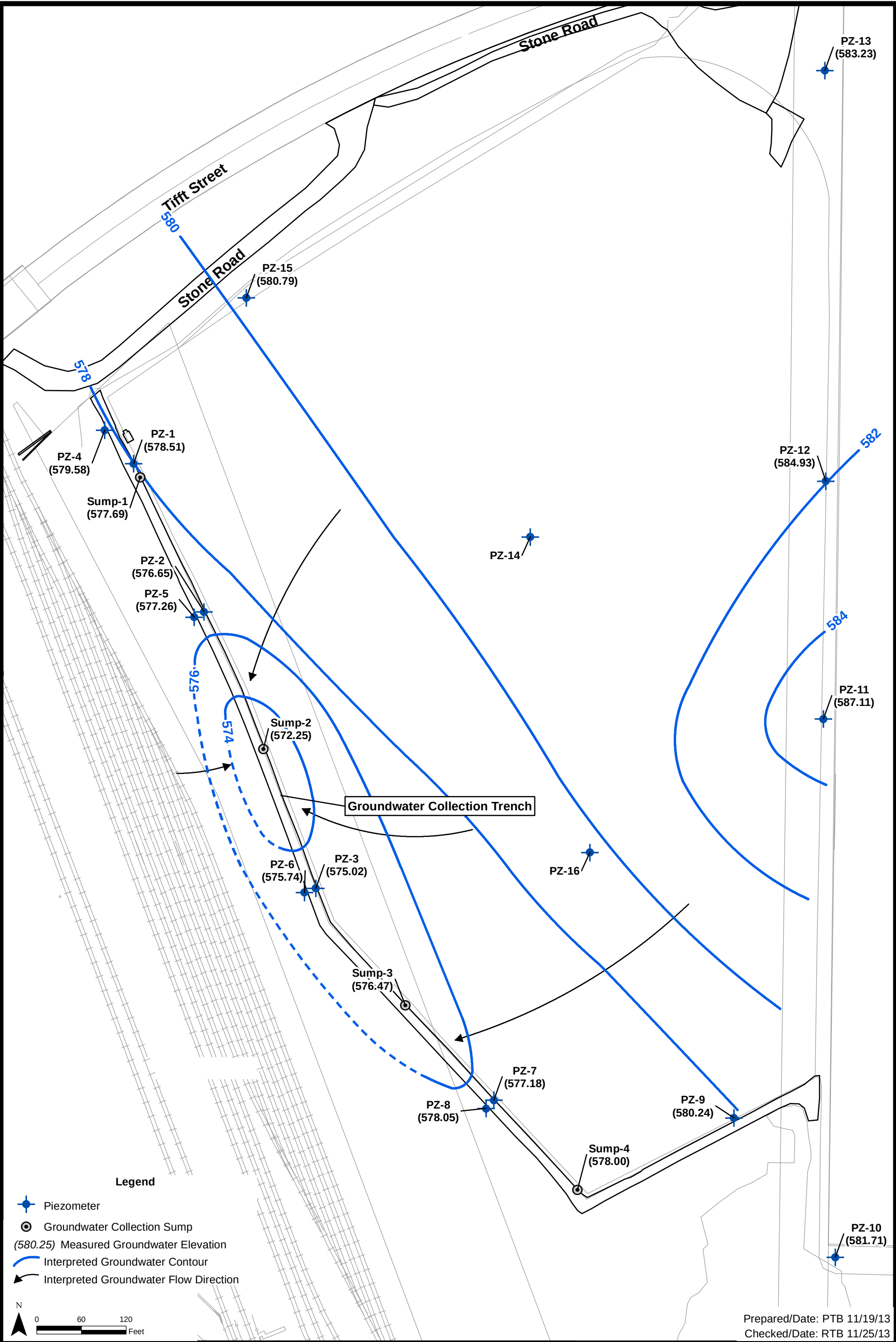
APPENDIX E

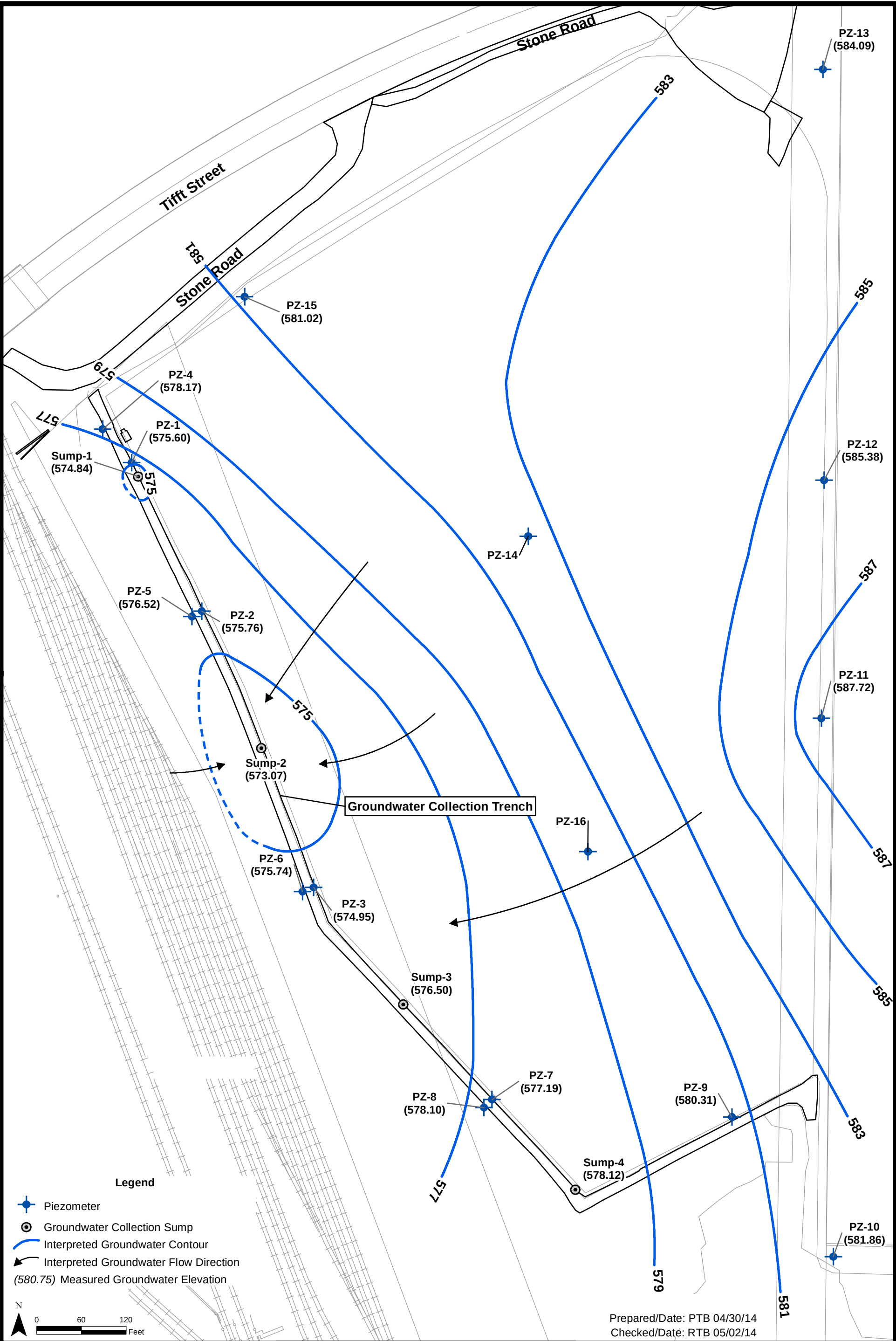
QUARTERLY GROUNDWATER CONTOUR MAPS











Prepared/Date: PTB 04/30/14
Checked/Date: RTB 05/02/14

Honeywell Alltitt Landfill Site
Buffalo, New York



Interpreted Groundwater Contours
Jan 15, 2014
Project 3410120905

Figure 4

APPENDIX F

GROUNDWATER ANALYTICAL RESULTS

APPENDIX G
SITE INSPECTION FORMS



Site Inspection Form

Site Name: Alltiff
Project Number: 30130
Date: 3/13/13

Weather: Overcast, Breezy 55 F
Assessment by: Mike Stout

Yes No N/A

☒	☐	☐
☐	☒	☐
☒	☐	☐
☒	☐	☐
☐	☒	☐

A. Security

1. Does fence exist? _____
2. Is there a breach in fence? _____
3. Locks on gate? _____
4. Posted signs? _____
5. Signs of trespassers/vandalism? _____
6. Other _____

☐	☒	☐
☐	☒	☐
☒	☐	☐
☐	☒	☐

B. General Site Conditions

1. Vegetation stress? _____
2. Mowing required? _____
3. Access road drivable? _____
4. Odors? _____
5. Other _____

☐	☒	☐
☒	☐	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐

C. Cap Inspection

1. Exposed waste? _____
2. Side slope stable? _____
3. Erosion? _____
4. Leachate seeps (discolored vegetation)? _____
5. Synthetic liner exposed? _____
6. Bare spots? _____
7. Presence of burrowing animals? _____
8. Deep rooted vegetation? _____
9. Cracking? _____
10. Ponding water? _____
11. Evidence of methane seeps? _____
12. Other _____

☐	☒	☐
☐	☒	☐
☒	☐	☐
☒	☐	☐
☐	☒	☐
☒	☐	☐
☐	☒	☐
☐	☒	☐

D. Surface Water

1. Obstruction of flow ditches? _____
2. Erosion of ditches? _____
3. Silt & erosion control? _____
4. Culverts in good condition? _____
5. Evidence of overflow or uncontrolled flow? _____
6. Outfalls in good condition? _____
7. Sedimentation basin/ponds secure? _____
8. Other _____

☒	☐	☐

E. Methane Gas Control

1. Does one exist? _____

**Site Inspection Form**

Yes No N/A

☒	☐	☐
☐	☒	☐
☒	☐	☐
☐	☒	☐
☒	☐	☐
☒	☐	☐
☒	☐	☐

2. Is system active or passive? ~~active~~ passive **RTB**
3. Permanent methane gas probes? _____
4. Locks on monitoring wells? _____
5. Vents in working order? One vent in need of replacement (GV1)
6. Well seals in place? _____
7. Methane levels within LEL limits? Readings taken 4/5/12 & 1/10/2013
8. Monitoring reports current? _____
9. Other _____ **RTB**

F. Leachate Collection System

☒	☐	☐
☒	☐	☐
☐	☐	☒
☐	☐	☒
☐	☐	☒

1. Does one exist? _____
2. Collection method:
a. Sump? 2
b. Well point? _____
c. Earthen basin/pond? _____
d. Structure secured? _____
e. Other _____

☒	☐	☐
☐	☒	☐
☒	☐	☐
☐	☒	☐

3. Pumping system:
a. Automatic? _____
b. Manual? _____
c. Mechanically operable? _____
d. Leaks/failures? _____

☐	☐	☒
☐	☐	☒
☒	☐	☒
☐	☐	☒

4. Disposals:
a. Onsite pretreatment/treatment? _____
b. Surface discharge? (NPDES/SPDES) _____
c. POTW – hardpiped? _____
d. Quick disconnect caps in place? _____

☐	☐	☒
☐	☐	☒
☒	☐	☐

5. Transportation (if any):
a. Chemicals? _____
b. Filter cake? _____
6. Ancillary equipment in good condition? (Pipes, valves, pumps, vaults, instruments and etc.) _____
7. Monitoring reports current? _____
8. Other _____

☒	☐	☐

G. Groundwater Monitoring & Recovery Wells (if any)

☒	☐	☐
☒	☐	☐
☒	☐	☐
☒	☐	☐
☒	☐	☐

1. Locks on wells? _____
2. Wells in good condition? _____
3. Well seals in good condition? _____
4. Access to wells? _____
5. Monitoring reports current? _____
6. Other _____

**Site Inspection Form**

Yes	No	N/A
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒

H. Treatment Plant

1. Building in good condition? (Doors, windows, wells, roof) _____
2. Visual tank inspection performed? _____
3. Visual inspection of pipes, valves, fittings etc.? _____
4. Pump operation/inspection performed? _____
5. Instruments operation/calibration? _____
6. Mixer operation/inspection? _____
7. Proper personal protection equipment? _____
8. Air compressor system functioning properly? _____
9. Filter press inspected? _____
10. Emergency generator functioning properly? _____

☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒

I. Polymeric Marine Mattress (PMM)

1. Damage due to burrowing animals? _____
2. Damage due ice and/or ice flowages? _____
3. Impacts or damage due to the periodic dredging of the Buffalo River? _____
4. Impacts or damage due to navigation activities in the Buffalo River? _____
5. Establishment of woody plant growth causing displacement or stress on the system? _____
6. Areas of settlement or displacement of the system? _____
7. Erosion at the upstream and downstream limits of the system? _____
8. Damage to the stone infill adjacent to Outfall #006 and the concrete wall/sheet pile along the upstream limit of the system? _____
9. Damage to the stone infill within the marine mattresses? _____
10. Damage to the general integrity of the system (Look for splits, cuts and gaps)? _____

J. General Comments

Mr. Dave Szymanski from the NYSDEC was notified of the quaterly inspection but did

not attend.

Site Inspection Form

Site Name: Alltiff
 Project Number: 30130
 Date: 5/21/2013

Weather: Overcast, Muggy 75 F
 Assessment by: Mohammed Salam

Yes	No	N/A
☒	☐	☐
☐	☒	☐
☒	☐	☐
☒	☐	☐
☐	☒	☐

A. Security

1. Does fence exist? _____
2. Is there a breach in fence? _____
3. Locks on gate? _____
4. Posted signs? _____
5. Signs of trespassers/vandalism? _____
6. Other _____

☐	☒	☐
☐	☒	☐
☒	☐	☐
☐	☒	☐

B. General Site Conditions

1. Vegetation stress? _____
2. Mowing required? _____
3. Access road drivable? _____
4. Odors? _____
5. Other _____

☐	☒	☐
☒	☐	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐

C. Cap Inspection

1. Exposed waste? _____
2. Side slope stable? _____
3. Erosion? _____
4. Leachate seeps (discolored vegetation)? _____
5. Synthetic liner exposed? _____
6. Bare spots? _____
7. Presence of burrowing animals? _____
8. Deep rooted vegetation? _____
9. Cracking? _____
10. Ponding water? _____
11. Evidence of methane seeps? _____
12. Other _____

☐	☒	☐
☐	☒	☐
☒	☐	☐
☒	☐	☐
☐	☒	☐
☒	☐	☐
☐	☐	☒

D. Surface Water

1. Obstruction of flow ditches? _____
2. Erosion of ditches? _____
3. Silt & erosion control? _____
4. Culverts in good condition? _____
5. Evidence of overflow or uncontrolled flow? _____
6. Outfalls in good condition? _____
7. Sedimentation basin/ponds secure? _____
8. Other _____

☒	☐	☐

E. Methane Gas Control

1. Does one exist? _____



Site Inspection Form

Yes	No	N/A
☒	☐	☐
☐	☒	☐
☒	☐	☐
☒	☒	☐
☒	☐	☐
☒	☐	☐
☒	☐	☐

RTB

2. Is system active or passive? active ~~passive~~ RTB
3. Permanent methane gas probes? _____
4. Locks on monitoring wells? _____
5. Vents in working order? 1
6. Well seals in place? _____
7. Methane levels within LEL limits? Readings taken 5/21/2013
8. Monitoring reports current? _____
9. Other _____

F. Leachate Collection System

☒	☐	☐
☒	☐	☐
☐	☐	☒
☐	☐	☒
☐	☐	☒

1. Does one exist? _____
2. Collection method:
- Sump? 2
 - Well point? _____
 - Earthen basin/pond? _____
 - Structure secured? _____
 - Other _____
3. Pumping system:
- Automatic? _____
 - Manual? _____
 - Mechanically operable? _____
 - Leaks/failures? _____

☒	☐	☐
☐	☒	☐
☒	☐	☐
☐	☒	☐

4. Disposals:
- Onsite pretreatment/treatment? _____
 - Surface discharge? (NPDES/SPDES) _____
 - POTW – hardpiped? _____
 - Quick disconnect caps in place? _____

☐	☐	☒
☐	☐	☒
☒	☐	☒
☐	☐	☒

RTB

5. Transportation (if any):
- Chemicals? _____
 - Filter cake? _____
6. Ancillary equipment in good condition? (Pipes, valves, pumps, vaults, instruments and etc.) _____
7. Monitoring reports current? _____
8. Other _____

☐	☐	☒
☐	☐	☒
☒	☐	☐
☒	☐	☐

G. Groundwater Monitoring & Recovery Wells (if any)

☒	☐	☐
☒	☐	☐
☒	☐	☐
☒	☐	☐
☒	☐	☐

1. Locks on wells? _____
2. Wells in good condition? _____
3. Well seals in good condition? _____
4. Access to wells? _____
5. Monitoring reports current? _____
6. Other _____



Site Inspection Form

Yes	No	N/A
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒

H. Treatment Plant

1. Building in good condition? (Doors, windows, wells, roof) _____
2. Visual tank inspection performed? _____
3. Visual inspection of pipes, valves, fittings etc.? _____
4. Pump operation/inspection performed? _____
5. Instruments operation/calibration? _____
6. Mixer operation/inspection? _____
7. Proper personal protection equipment? _____
8. Air compressor system functioning properly? _____
9. Filter press inspected? _____
10. Emergency generator functioning properly? _____

☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒

I. Polymeric Marine Mattress (PMM)

1. Damage due to burrowing animals? _____
2. Damage due ice and/or ice flowages? _____
3. Impacts or damage due to the periodic dredging of the Buffalo River? _____
4. Impacts or damage due to navigation activities in the Buffalo River? _____
5. Establishment of woody plant growth causing displacement or stress on the system? _____
6. Areas of settlement or displacement of the system? _____
7. Erosion at the upstream and downstream limits of the system? _____
8. Damage to the stone infill adjacent to Outfall #006 and the concrete wall/sheet pile along the upstream limit of the system? _____
9. Damage to the stone infill within the marine mattresses? _____
10. Damage to the general integrity of the system (Look for splits, cuts and gaps)? _____

J. General Comments

Mr. Dave Szymanski from the NYSDEC was notified of the quaterly inspection but did not attend. Replaced the flow meter of the lift station. Descaled the pumps.











Site Inspection Form

Site Name: Alltiff
 Project Number: 30130
 Date: 9/11/2013

Weather: Overcast, Hot, Muggy 85 F
 Assessment by: Patrick Higgins

Yes	No	N/A
☐	☐	☐
☐	☒	☐
☐	☐	☐
☐	☐	☐
☐	☒	☐

A. Security

- Does fence exist? _____
- Is there a breach in fence? _____
- Locks on gate? _____
- Posted signs? _____
- Signs of trespassers/vandalism? _____
- Other _____

☐	☒	☐
☐	☒	☐
☐	☐	☐
☐	☒	☐

B. General Site Conditions

- Vegetation stress? _____
- Mowing required? _____
- Access road drivable? _____
- Odors? _____
- Other _____

☐	☒	☐
☐	☐	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐

C. Cap Inspection

- Exposed waste? _____
- Side slope stable? _____
- Erosion? _____
- Leachate seeps (discolored vegetation)? _____
- Synthetic liner exposed? _____
- Bare spots? _____
- Presence of burrowing animals? _____
- Deep rooted vegetation? _____
- Cracking? _____
- Ponding water? _____
- Evidence of methane seeps? _____
- Other _____

☐	☒	☐
☐	☒	☐
☐	☐	☐
☐	☐	☐
☐	☒	☐
☐	☐	☐
☐	☐	☒

D. Surface Water

- Obstruction of flow ditches? _____
- Erosion of ditches? _____
- Silt & erosion control? _____
- Culverts in good condition? _____
- Evidence of overflow or uncontrolled flow? _____
- Outfalls in good condition? _____
- Sedimentation basin/ponds secure? _____
- Other _____

☐	☐	☐

E. Methane Gas Control

- Does one exist? _____



Site Inspection Form

Yes	No	N/A
☐	☐	☐
☐	☒	☐
☐	☐	☐
☒	☒	☐
☐	☐	☐
☐	☐	☐
☐	☐	☐

RTB

2. Is system active or passive? ~~active~~ passive RTB
3. Permanent methane gas probes? _____
4. Locks on monitoring wells? _____
5. Vents in working order? 1
6. Well seals in place? _____
7. Methane levels within LEL limits? Readings taken 9/11/2013
8. Monitoring reports current? _____
9. Other _____

F. Leachate Collection System

☐	☐	☐
☐	☐	☐
☐	☐	☒
☐	☐	☒
☐	☐	☒

1. Does one exist? _____
2. Collection method:
- a. Sump? 2
 - b. Well point? _____
 - c. Earthen basin/pond? _____
 - d. Structure secured? _____
 - e. Other _____
3. Pumping system:
- a. Automatic? _____
 - b. Manual? _____
 - c. Mechanically operable? _____
 - d. Leaks/failures? _____
4. Disposals:
- a. Onsite pretreatment/treatment? _____
 - b. Surface discharge? (NPDES/SPDES) _____
 - c. POTW – hardpiped? _____
 - d. Quick disconnect caps in place? _____

☐	☐	☐
☐	☒	☐
☐	☐	☐
☐	☒	☐

☐	☐	☒
☐	☐	☒
☒	☐	☒
☐	☐	☒

RTB

5. Transportation (if any):
- a. Chemicals? _____
 - b. Filter cake? _____
6. Ancillary equipment in good condition? (Pipes, valves, pumps, vaults, instruments and etc.) _____
7. Monitoring reports current? _____
8. Other _____

☐	☐	☒
☐	☐	☒
☐	☐	☐

☐	☐	☐

G. Groundwater Monitoring & Recovery Wells (if any)

☐	☐	☐
☐	☐	☐
☐	☐	☐
☐	☐	☐
☐	☐	☐

1. Locks on wells? _____
2. Wells in good condition? _____
3. Well seals in good condition? _____
4. Access to wells? _____
5. Monitoring reports current? _____
6. Other _____



Site Inspection Form

Yes	No	N/A
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒

H. Treatment Plant

1. Building in good condition? (Doors, windows, wells, roof) _____
2. Visual tank inspection performed? _____
3. Visual inspection of pipes, valves, fittings etc.? _____
4. Pump operation/inspection performed? _____
5. Instruments operation/calibration? _____
6. Mixer operation/inspection? _____
7. Proper personal protection equipment? _____
8. Air compressor system functioning properly? _____
9. Filter press inspected? _____
10. Emergency generator functioning properly? _____

☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒

I. Polymeric Marine Mattress (PMM)

1. Damage due to burrowing animals? _____
2. Damage due ice and/or ice flowages? _____
3. Impacts or damage due to the periodic dredging of the Buffalo River? _____
4. Impacts or damage due to navigation activities in the Buffalo River? _____
5. Establishment of woody plant growth causing displacement or stress on the system? _____
6. Areas of settlement or displacement of the system? _____
7. Erosion at the upstream and downstream limits of the system? _____
8. Damage to the stone Infill adjacent to Outfall #006 and the concrete wall/sheet pile along the upstream limit of the system? _____
9. Damage to the stone Infill within the marine mattresses? _____
10. Damage to the general integrity of the system (Look for splits, cuts and gaps)? _____

J. General Comments

Mr. Dave Szymanski from the NYSDEC was notified and attended walk through inspection of Planted pods and perimeters. Recently, cap was mowed. Preventative maintenance performed on lift station. Dave Szymanski informed Mike and I that the sample wells are required by the State of New York to have GPS Locations.

Antoine C. Szymanski 9/13/2013

Site Inspection Form

Site Name: Alltiff
 Project Number: 30130
 Date: 10/24/2013

Weather: Sunny, 45 degrees
 Assessment by: John Formoza

Yes	No	N/A
☒	☐	☐
☐	☒	☐
☒	☐	☐
☒	☐	☐
☐	☒	☐

A. Security

1. Does fence exist? _____
2. Is there a breach in fence? _____
3. Locks on gate? _____
4. Posted signs? _____
5. Signs of trespassers/vandalism? _____
6. Other _____

☐	☒	☐
☐	☒	☐
☒	☐	☐
☐	☒	☐

B. General Site Conditions

1. Vegetation stress? _____
2. Mowing required? _____
3. Access road drivable? _____
4. Odors? _____
5. Other _____

☐	☒	☐
☒	☐	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐
☐	☒	☐

C. Cap Inspection

1. Exposed waste? _____
2. Side slope stable? _____
3. Erosion? _____
4. Leachate seeps (discolored vegetation)? _____
5. Synthetic liner exposed? _____
6. Bare spots? _____
7. Presence of burrowing animals? _____
8. Deep rooted vegetation? _____
9. Cracking? _____
10. Ponding water? _____
11. Evidence of methane seeps? _____
12. Other _____

☐	☒	☐
☐	☒	☐
☒	☐	☐
☒	☐	☐
☐	☒	☐
☒	☐	☐
☐	☐	☒

D. Surface Water

1. Obstruction of flow ditches? _____
2. Erosion of ditches? _____
3. Silt & erosion control? _____
4. Culverts in good condition? _____
5. Evidence of overflow or uncontrolled flow? _____
6. Outfalls in good condition? _____
7. Sedimentation basin/ponds secure? _____
8. Other _____

☒	☐	☐

E. Methane Gas Control

1. Does one exist? Readings completed on 10/24/2013

Site Inspection Form

Yes	No	N/A
☒	☐	☐
☐	☒	☐
☒	☐	☐
☒	☐	☐
☒	☐	☐
☒	☐	☐
☒	☐	☐

2. Is system active or passive? ~~active~~ passive RTB
3. Permanent methane gas probes? _____
4. Locks on monitoring wells? _____
5. Vents in working order? _____
6. Well seals in place? _____
7. Methane levels within LEL limits? _____
8. Monitoring reports current? _____
9. Other _____

☒	☐	☐
☒	☐	☐
☐	☐	☒
☐	☐	☒
☐	☐	☒

F. Leachate Collection System

1. Does one exist? _____
2. Collection method:
 - a. Sump? 2
 - b. Well point? _____
 - c. Earthen basin/pond? _____
 - d. Structure secured? _____
 - e. Other _____
3. Pumping system:
 - a. Automatic? _____
 - b. Manual? _____
 - c. Mechanically operable? _____
 - d. Leaks/failures? _____
4. Disposals:
 - a. Onsite pretreatment/treatment? _____
 - b. Surface discharge? (NPDES/SPDES) _____
 - c. POTW – hardpiped? yes
 - d. Quick disconnect caps in place? _____
5. Transportation (if any):
 - a. Chemicals? _____
 - b. Filter cake? _____
6. Ancillary equipment in good condition? (Pipes, valves, pumps, vaults, instruments and etc.) _____
7. Monitoring reports current? _____
8. Other _____

☒	☐	☐
☐	☒	☐
☒	☐	☐
☐	☒	☐

☐	☐	☒
☐	☐	☒
☒	☐	☐
☐	☐	☒

☐	☐	☒
☐	☐	☒
☒	☐	☐

☒	☐	☐

☒	☐	☐
☒	☐	☐
☒	☐	☐
☒	☐	☐
☒	☐	☐

G. Groundwater Monitoring & Recovery Wells (if any)

1. Locks on wells? _____
2. Wells in good condition? _____
3. Well seals in good condition? _____
4. Access to wells? _____
5. Monitoring reports current? _____
6. Other _____

Site Inspection Form

Yes	No	N/A
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒
☐	☐	☒

H. Treatment Plant

1. Building in good condition? (Doors, windows, wells, roof) _____
2. Visual tank inspection performed? _____
3. Visual inspection of pipes, valves, fittings etc.? _____
4. Pump operation/inspection performed? _____
5. Instruments operation/calibration? _____
6. Mixer operation/inspection? _____
7. Proper personal protection equipment? _____
8. Air compressor system functioning properly? _____
9. Filter press inspected? _____
10. Emergency generator functioning properly? _____

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I. Polymeric Marine Mattress (PMM)

1. Damage due to burrowing animals? _____
2. Damage due ice and/or ice flowages? _____
3. Impacts or damage due to the periodic dredging of the Buffalo River? _____
4. Impacts or damage due to navigation activities in the Buffalo River? _____
5. Establishment of woody plant growth causing displacement or stress on the system? _____
6. Areas of settlement or displacement of the system? _____
7. Erosion at the upstream and downstream limits of the system? _____
8. Damage to the stone infill adjacent to Outfall #006 and the concrete wall/sheet pile along the upstream limit of the system? _____
9. Damage to the stone infill within the marine mattresses? _____
10. Damage to the general integrity of the system (Look for splits, cuts and gaps)? _____

J. General Comments

Mr. Dave Szymanski from the NYSDEC was notified of the quarterly inspection and did

not attend.

John Formoza





Site Inspection Form

Site Name: Alltiff
Project Number: 30130
Date: 1/15/2014

Weather: Overcast, Windy, 20 degrees
Assessment by: John Formoza

Yes	No	N/A
☒	☐	☐
☐	☒	☐
☒	☐	☐
☒	☐	☐
☐	☒	☐

A. Security

1. Does fence exist? _____
2. Is there a breach in fence? _____
3. Locks on gate? _____
4. Posted signs? _____
5. Signs of trespassers/vandalism? _____
6. Other _____

Yes	No	N/A
☐	☒	☐
☐	☒	☐
☒	☐	☐
☐	☒	☐

B. General Site Conditions

1. Vegetation stress? _____
2. Mowing required? _____
3. Access road drivable? _____
4. Odors? _____
5. Other _____

Yes	No	N/A
☐	☒	☐
☒	☐	☐
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☐	☒	☐

C. Cap Inspection

1. Exposed waste? _____
2. Side slope stable? _____
3. Erosion? _____
4. Leachate seeps (discolored vegetation)? _____
5. Synthetic liner exposed? _____
6. Bare spots? _____
7. Presence of burrowing animals? _____
8. Deep rooted vegetation? _____
9. Cracking? _____
10. Ponding water? _____
11. Evidence of methane seeps? _____
12. Other _____

Yes	No	N/A
☐	☒	☐
☐	☒	☐
☒	☐	☐
☒	☐	☐
☐	☒	☐
☒	☐	☐
☐	☐	☒

D. Surface Water

1. Obstruction of flow ditches? _____
2. Erosion of ditches? _____
3. Silt & erosion control? _____
4. Culverts in good condition? _____
5. Evidence of overflow or uncontrolled flow? _____
6. Outfalls in good condition? _____
7. Sedimentation basin/ponds secure? _____
8. Other _____

Yes	No	N/A
☒	☐	☐

E. Methane Gas Control

1. Does one exist? _____



Site Inspection Form

Yes	No	N/A

☒	☐	☐
☐	☒	☐
☒	☐	☐
☒	☐	☐
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☒	☐	☐

2. Is system active or passive? ~~active~~ Passive *R7B*
3. Permanent methane gas probes? _____
4. Locks on monitoring wells? _____
5. Vents in working order? _____
6. Well seals in place? _____
7. Methane levels within LEL limits? _____
8. Monitoring reports current? _____
9. Other _____

F. Leachate Collection System

☒	☐	☐

1. Does one exist? _____

☒	☐	☐
☐	☐	☒
☐	☐	☒
☐	☐	☒

2. Collection method:

- a. Sump? 2
- b. Well point? _____
- c. Earthen basin/pond? _____
- d. Structure secured? _____
- e. Other _____

☒	☐	☐
☐	☒	☐
☒	☐	☐
☐	☒	☐

3. Pumping system:

- a. Automatic? _____
- b. Manual? _____
- c. Mechanically operable? _____
- d. Leaks/failures? _____

☐	☐	☒
☐	☐	☒
☒	☐	☐
☐	☐	☒

4. Disposals:

- a. Onsite pretreatment/treatment? _____
- b. Surface discharge? (NPDES/SPDES) _____
- c. POTW – hardpiped? yes
- d. Quick disconnect caps in place? _____

☐	☐	☒
☐	☐	☒
☒	☐	☐

5. Transportation (if any):

- a. Chemicals? _____
- b. Filter cake? _____

☒	☐	☐

6. Ancillary equipment in good condition? (Pipes, valves, pumps, vaults, instruments and etc.) _____

7. Monitoring reports current? _____

8. Other _____

☒	☐	☐
☒	☐	☐
☒	☐	☐
☒	☐	☐
☒	☐	☐

G. Groundwater Monitoring & Recovery Wells (if any)

1. Locks on wells? _____
2. Wells in good condition? _____
3. Well seals in good condition? _____
4. Access to wells? _____
5. Monitoring reports current? _____
6. Other _____

**Site Inspection Form****Yes No N/A**

☐	☐	☒
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☐	☐	☒
☐	☐	☒
☐	☐	☒

H. Treatment Plant

1. Building in good condition? (Doors, windows, wells, roof) _____
2. Visual tank inspection performed? _____
3. Visual inspection of pipes, valves, fittings etc.? _____
4. Pump operation/inspection performed? _____
5. Instruments operation/calibration? _____
6. Mixer operation/inspection? _____
7. Proper personal protection equipment? _____
8. Air compressor system functioning properly? _____
9. Filter press inspected? _____
10. Emergency generator functioning properly? _____

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I. Polymeric Marine Mattress (PMM)

1. Damage due to burrowing animals? _____
2. Damage due ice and/or ice flowages? _____
3. Impacts or damage due to the periodic dredging of the Buffalo River? _____
4. Impacts or damage due to navigation activities in the Buffalo River? _____
5. Establishment of woody plant growth causing displacement or stress on the system? _____
6. Areas of settlement or displacement of the system? _____
7. Erosion at the upstream and downstream limits of the system? _____
8. Damage to the stone infill adjacent to Outfall #006 and the concrete wall/sheet pile along the upstream limit of the system? _____
9. Damage to the stone infill within the marine mattresses? _____
10. Damage to the general integrity of the system (Look for splits, cuts and gaps)? _____

J. General Comments

The gas vent on the cap was repaired. The first quarter piezometer readings were completed on January 15th, 2014 and captured in the log book. CH2M HILL serviced the flow meter at lift station. No alarms were found.

Patricia Higgins 1/16/2014

Site Inspection Form

Site Name: Alltift
 Project Number: 30130
 Date: 4/14/2014

Weather: Warm morning Cool down to 50 degrees high winds
 Assessment by: Patrick Higgins

Yes	No	N/A
☒	☐	☐
☐	☒	☐
☒	☐	☐
☒	☐	☐
☐	☒	☐

A. Security

1. Does fence exist? _____
2. Is there a breach in fence? _____
3. Locks on gate? _____
4. Posted signs? NO Trespassing
5. Signs of trespassers/vandalism? _____
6. Other _____

☐	☒	☐
☐	☒	☐
☒	☐	☐
☐	☒	☐

B. General Site Conditions

1. Vegetation stress? _____
2. Mowing required? _____
3. Access road drivable? _____
4. Odors? _____
5. Other _____

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C. Cap Inspection

1. Exposed waste? _____
2. Side slope stable? _____
3. Erosion? _____
4. Leachate seeps (discolored vegetation)? _____
5. Synthetic liner exposed? _____
6. Bare spots? _____
7. Presence of burrowing animals? _____
8. Deep rooted vegetation? _____
9. Cracking? _____
10. Ponding water? _____
11. Evidence of methane seeps? _____
12. Other _____

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D. Surface Water

1. Obstruction of flow ditches? Refer to general comments
2. Erosion of ditches? _____
3. Silt & erosion control? _____
4. Culverts in good condition? _____
5. Evidence of overflow or uncontrolled flow? _____
6. Outfalls in good condition? Refer to General comments
7. Sedimentation basin/ponds secure? _____
8. Other _____

☒	☐	☐

E. Methane Gas Control

1. Does one exist? _____

Site Inspection Form

Yes No N/A

☒	☐	☐
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☒	☐	☐
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2. Is system active or passive? Passive
3. Permanent methane gas probes? _____
4. Locks on monitoring wells? _____
5. Vents in working order?
6. Well seals in place? _____
7. Methane levels within LEL limits? _____
8. Monitoring reports current?
9. Other _____

F. Leachate Collection System

☒	☐	☐
☒	☐	☐
☐	☐	☒
☐	☐	☒
☐	☐	☒

1. Does one exist? _____
2. Collection method:
 - a. Sump?
 - b. Well point? _____
 - c. Earthen basin/pond? _____
 - d. Structure secured? _____
 - e. Other _____
3. Pumping system:
 - a. Automatic? _____
 - b. Manual? Refer to General Comments
 - c. Mechanically operable? _____
 - d. Leaks/failures? Refer to general Comments
4. Disposals:
 - a. Onsite pretreatment/treatment? _____
 - b. Surface discharge? (NPDES/SPDES) _____
 - c. POTW – hardpiped? _____
 - d. Quick disconnect caps in place? _____
5. Transportation (if any):
 - a. Chemicals? _____
 - b. Filter cake? _____
6. Ancillary equipment in good condition? (Pipes, valves, pumps, vaults, instruments and etc.) Refer to general Comments
7. Monitoring reports current? refer to general Comments
8. Other _____

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☒	☐	☐

G. Groundwater Monitoring & Recovery Wells (if any)

1. Locks on wells? _____
2. Wells in good condition? _____
3. Well seals in good condition? _____
4. Access to wells? _____
5. Monitoring reports current? _____
6. Other _____

Site Inspection Form

J. General Comments

Repairing sump pump #2 Exposed broken pipe between pitless adaptor and isolation ball valve and hole after ball valve to the HDP force main. Repair complete. First semi-Annual sampling event for 2014 completed on April 14th, 2014

On April 15th, 2014 clear out the outfall. Cleared the flume of winter debris at the weir to lower the water level in the wetland.

.

ANALYTICAL REPORT

Job Number: 480-45418-1

Job Description: 30130 - Alltiff Annual GW Sampling

For:

Honeywell International Inc
101 Columbia Road
Morristown, NJ 07962

Attention: Mr. Rich Galloway



Approved for release.
Rebecca M Jones
Project Mgmt. Assistant
9/26/2013 9:46 AM

Designee for
John R Schove, Project Manager I
10 Hazelwood Drive, Amherst, NY, 14228-2298
john.schove@testamericainc.com
09/26/2013

cc: Mr. Bradley B. LaForest

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TestAmerica Laboratories, Inc.

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Job Narrative
480-45418-1

Comments

No additional comments.

Receipt

The samples were received on 9/9/2013 4:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 3.6° C.

GC/MS VOA

Method(s) 8260B: The following volatiles sample(s) was diluted due to foaming at the time of purging during the original sample analysis: FDUP-090913 (480-45418-7), Sump 1-090913 (480-45418-2), Sump 2-090913 (480-45418-3), Sump 3-090913 (480-45418-4), Sump 4-090913 (480-45418-5), Sump 4-090913 MS (480-45418-5 MS), Sump 4-090913 MSD (480-45418-5 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The matrix spike duplicate (MSD) recoveries for batch 138961 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270C: The following samples contained one base surrogate outside acceptance limits: Sump 4-090913 MS (480-45418-5 MS), Sump 4-090913 MSD (480-45418-5 MSD). The laboratory's SOP allows one acid surrogate and/or one base surrogate to be outside acceptance limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Instrument ID: HP5973Q Analysis Batch Number: 130641Lab Sample ID: IC 480-130641/3 Client Sample ID: _____Date Analyzed: 07/25/13 13:41 Lab File ID: Q9495.D GC Column: ZB-624 (60) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.87	Baseline	BrandtT	07/25/13 15:20

Lab Sample ID: IC 480-130641/4 Client Sample ID: _____Date Analyzed: 07/25/13 14:08 Lab File ID: Q9496.D GC Column: ZB-624 (60) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.87	Peak Tail	BrandtT	07/25/13 15:21

Lab Sample ID: ICIS 480-130641/5 Client Sample ID: _____Date Analyzed: 07/25/13 14:36 Lab File ID: Q9497.D GC Column: ZB-624 (60) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.87	Peak Tail	BrandtT	07/25/13 15:22

Lab Sample ID: IC 480-130641/6 Client Sample ID: _____Date Analyzed: 07/25/13 15:04 Lab File ID: Q9498.D GC Column: ZB-624 (60) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.87	Peak Tail	BrandtT	07/25/13 15:33
Acetone	2.74	Baseline	BrandtT	07/25/13 15:32

Lab Sample ID: IC 480-130641/7 Client Sample ID: _____Date Analyzed: 07/25/13 15:31 Lab File ID: Q9499.D GC Column: ZB-624 (60) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.87	Peak Tail	BrandtT	07/25/13 16:29

SAMPLE SUMMARY

Client: Honeywell International Inc

Job Number: 480-45418-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-45418-1	Sump Comp-090913	Water	09/09/2013 1200	09/09/2013 1630
480-45418-2	Sump 1-090913	Water	09/09/2013 1145	09/09/2013 1630
480-45418-3	Sump 2-090913	Water	09/09/2013 1125	09/09/2013 1630
480-45418-4	Sump 3-090913	Water	09/09/2013 1052	09/09/2013 1630
480-45418-5	Sump 4-090913	Water	09/09/2013 1005	09/09/2013 1630
480-45418-5MS	Sump 4-090913 MS	Water	09/09/2013 1005	09/09/2013 1630
480-45418-5MSD	Sump 4-090913 MSD	Water	09/09/2013 1005	09/09/2013 1630
480-45418-6	MW-2-090913	Water	09/09/2013 0852	09/09/2013 1630
480-45418-7	FDUP-090913	Water	09/09/2013 1015	09/09/2013 1630
480-45418-8TB	TRIP BLANK 090913	Water	09/09/2013 1215	09/09/2013 1630
480-45418-9	MW-2-090913	Water	09/09/2013 1345	09/09/2013 1630
480-45418-10EB	EQUIPMENT BLANK	Water	09/09/2013 1230	09/09/2013 1630

EXECUTIVE SUMMARY - Detections

Client: Honeywell International Inc

Job Number: 480-45418-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-45418-1	SUMP COMP-090913					
Chromium		0.011		0.0040	mg/L	6010B
Iron		13.7		0.050	mg/L	6010B
Manganese		3.2		0.0030	mg/L	6010B
Antimony		0.83	J	1.0	ug/L	6020
Arsenic		30.0		1.0	ug/L	6020
Cadmium		0.22	J	0.50	ug/L	6020
480-45418-2	SUMP 1-090913					
Chlorobenzene		13		4.0	ug/L	8260B
480-45418-3	SUMP 2-090913					
Chlorobenzene		16		5.0	ug/L	8260B
480-45418-5	SUMP 4-090913					
Chlorobenzene		33		4.0	ug/L	8260B
Chromium		0.0035	J	0.0040	mg/L	6010B
Iron		10.9		0.050	mg/L	6010B
Manganese		3.4		0.0030	mg/L	6010B
Antimony		0.51	J	1.0	ug/L	6020
Arsenic		11.7		1.0	ug/L	6020
Cadmium		0.078	J	0.50	ug/L	6020
480-45418-6	MW-2-090913					
Chromium		0.0031	J	0.0040	mg/L	6010B
Iron		2.3		0.050	mg/L	6010B
Manganese		0.58		0.0030	mg/L	6010B
Antimony		0.33	J	1.0	ug/L	6020
Arsenic		4.4		1.0	ug/L	6020
Cadmium		0.10	J	0.50	ug/L	6020
480-45418-7	FDUP-090913					
Chlorobenzene		18		4.0	ug/L	8260B
Chromium		0.0032	J	0.0040	mg/L	6010B
Iron		10.8		0.050	mg/L	6010B
Manganese		3.4		0.0030	mg/L	6010B
Antimony		0.55	J	1.0	ug/L	6020
Arsenic		12.6		1.0	ug/L	6020
Cadmium		0.072	J	0.50	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: Honeywell International Inc

Job Number: 480-45418-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-45418-10EB	EQUIPMENT BLANK					
Iron		0.024	J	0.050	mg/L	6010B
Manganese		0.0037		0.0030	mg/L	6010B
Arsenic		0.12	J	1.0	ug/L	6020

METHOD SUMMARY

Client: Honeywell International Inc

Job Number: 480-45418-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL BUF	SW846 8260B	
Purge and Trap	TAL BUF		SW846 5030B
Semivolatile Organic Compounds (GC/MS)	TAL BUF	SW846 8270C	
Liquid-Liquid Extraction (Separatory Funnel)	TAL BUF		SW846 3510C
Metals (ICP)	TAL BUF	SW846 6010B	
Preparation, Total Metals	TAL BUF		SW846 3005A
Metals (ICP/MS)	TAL BUF	SW846 6020	
Preparation, Total Metals	TAL BUF		SW846 3020A
Mercury (CVAA)	TAL BUF	SW846 7470A	
Preparation, Mercury	TAL BUF		SW846 7470A

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Honeywell International Inc

Job Number: 480-45418-1

Method	Analyst	Analyst ID
SW846 8260B	Brandt, Todd R	TRB
SW846 8270C	McGovern, Anna N	ANM
SW846 6010B	Hanks, Lisa M	LMH
SW846 6020	Mossdrop, Michael T	MTM2
SW846 7470A	Kacalski, Jason R	JRK

Analytical Data

Client: Honeywell International Inc

Job Number: 480-45418-1

Client Sample ID: Sump 1-090913

Lab Sample ID: 480-45418-2

Date Sampled: 09/09/2013 1145

Client Matrix: Water

Date Received: 09/09/2013 1630

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-138961	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q0468.D
Dilution:	4.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/13/2013 1606			Final Weight/Volume:	5 mL
Prep Date:	09/13/2013 1606				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichlorobenzene	ND		3.2	4.0
1,4-Dichlorobenzene	ND		3.4	4.0
Benzene	ND		1.6	4.0
Chlorobenzene	13		3.0	4.0
Ethylbenzene	ND		3.0	4.0
Xylenes, Total	ND		2.6	8.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		66 - 137
Toluene-d8 (Surr)	96		71 - 126
4-Bromofluorobenzene (Surr)	90		73 - 120

Analytical Data

Client: Honeywell International Inc

Job Number: 480-45418-1

Client Sample ID: Sump 2-090913

Lab Sample ID: 480-45418-3

Date Sampled: 09/09/2013 1125

Client Matrix: Water

Date Received: 09/09/2013 1630

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-138961	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q0469.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/13/2013 1633			Final Weight/Volume:	5 mL
Prep Date:	09/13/2013 1633				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichlorobenzene	ND		4.0	5.0
1,4-Dichlorobenzene	ND		4.2	5.0
Benzene	ND		2.1	5.0
Chlorobenzene	16		3.8	5.0
Ethylbenzene	ND		3.7	5.0
Xylenes, Total	ND		3.3	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		66 - 137
Toluene-d8 (Surr)	95		71 - 126
4-Bromofluorobenzene (Surr)	91		73 - 120

Analytical Data

Client: Honeywell International Inc

Job Number: 480-45418-1

Client Sample ID: Sump 3-090913

Lab Sample ID: 480-45418-4

Date Sampled: 09/09/2013 1052

Client Matrix: Water

Date Received: 09/09/2013 1630

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-138961	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q0470.D
Dilution:	4.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/13/2013 1701			Final Weight/Volume:	5 mL
Prep Date:	09/13/2013 1701				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichlorobenzene	ND		3.2	4.0
1,4-Dichlorobenzene	ND		3.4	4.0
Benzene	ND		1.6	4.0
Chlorobenzene	ND		3.0	4.0
Ethylbenzene	ND		3.0	4.0
Xylenes, Total	ND		2.6	8.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		66 - 137
Toluene-d8 (Surr)	95		71 - 126
4-Bromofluorobenzene (Surr)	90		73 - 120

Analytical Data

Client: Honeywell International Inc

Job Number: 480-45418-1

Client Sample ID: Sump 4-090913

Lab Sample ID: 480-45418-5

Date Sampled: 09/09/2013 1005

Client Matrix: Water

Date Received: 09/09/2013 1630

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-138961	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q0471.D
Dilution:	4.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/13/2013 1729			Final Weight/Volume:	5 mL
Prep Date:	09/13/2013 1729				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichlorobenzene	ND		3.2	4.0
1,4-Dichlorobenzene	ND		3.4	4.0
Benzene	ND		1.6	4.0
Chlorobenzene	33		3.0	4.0
Ethylbenzene	ND		3.0	4.0
Xylenes, Total	ND		2.6	8.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98		66 - 137
Toluene-d8 (Surr)	95		71 - 126
4-Bromofluorobenzene (Surr)	90		73 - 120

Analytical Data

Client: Honeywell International Inc

Job Number: 480-45418-1

Client Sample ID: MW-2-090913

Lab Sample ID: 480-45418-6

Date Sampled: 09/09/2013 0852

Client Matrix: Water

Date Received: 09/09/2013 1630

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-138961	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q0474.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/13/2013 1852			Final Weight/Volume:	5 mL
Prep Date:	09/13/2013 1852				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichlorobenzene	ND		0.79	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
Benzene	ND		0.41	1.0
Chlorobenzene	ND		0.75	1.0
Ethylbenzene	ND		0.74	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
Toluene-d8 (Surr)	95		71 - 126
4-Bromofluorobenzene (Surr)	89		73 - 120

Analytical Data

Client: Honeywell International Inc

Job Number: 480-45418-1

Client Sample ID: FDUP-090913

Lab Sample ID: 480-45418-7

Date Sampled: 09/09/2013 1015

Client Matrix: Water

Date Received: 09/09/2013 1630

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-138961	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q0475.D
Dilution:	4.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/13/2013 1919			Final Weight/Volume:	5 mL
Prep Date:	09/13/2013 1919				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichlorobenzene	ND		3.2	4.0
1,4-Dichlorobenzene	ND		3.4	4.0
Benzene	ND		1.6	4.0
Chlorobenzene	18		3.0	4.0
Ethylbenzene	ND		3.0	4.0
Xylenes, Total	ND		2.6	8.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		66 - 137
Toluene-d8 (Surr)	94		71 - 126
4-Bromofluorobenzene (Surr)	91		73 - 120

Analytical Data

Client: Honeywell International Inc

Job Number: 480-45418-1

Client Sample ID: TRIP BLANK 090913

Lab Sample ID: 480-45418-8TB

Date Sampled: 09/09/2013 1215

Client Matrix: Water

Date Received: 09/09/2013 1630

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-138961	Instrument ID:	HP5973Q
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	Q0476.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/13/2013 1947			Final Weight/Volume:	5 mL
Prep Date:	09/13/2013 1947				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2-Dichlorobenzene	ND		0.79	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
Benzene	ND		0.41	1.0
Chlorobenzene	ND		0.75	1.0
Ethylbenzene	ND		0.74	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		66 - 137
Toluene-d8 (Surr)	94		71 - 126
4-Bromofluorobenzene (Surr)	89		73 - 120

Analytical Data

Client: Honeywell International Inc

Job Number: 480-45418-1

Client Sample ID: Sump Comp-090913

Lab Sample ID: 480-45418-1

Date Sampled: 09/09/2013 1200

Client Matrix: Water

Date Received: 09/09/2013 1630

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-138717	Instrument ID:	HP5973U
Prep Method:	3510C	Prep Batch:	480-138326	Lab File ID:	U0573.D
Dilution:	1.0			Initial Weight/Volume:	1046.9 mL
Analysis Date:	09/13/2013 0406			Final Weight/Volume:	1 mL
Prep Date:	09/11/2013 0708			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
4-Chloroaniline	ND		0.56	4.8
Naphthalene	ND		0.73	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	92		46 - 120
2-Fluorobiphenyl	93		48 - 120
p-Terphenyl-d14	89		67 - 150

Analytical Data

Client: Honeywell International Inc

Job Number: 480-45418-1

Client Sample ID: Sump 4-090913

Lab Sample ID: 480-45418-5

Date Sampled: 09/09/2013 1005

Client Matrix: Water

Date Received: 09/09/2013 1630

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-138717	Instrument ID:	HP5973U
Prep Method:	3510C	Prep Batch:	480-138326	Lab File ID:	U0576.D
Dilution:	1.0			Initial Weight/Volume:	1058.2 mL
Analysis Date:	09/13/2013 0517			Final Weight/Volume:	1 mL
Prep Date:	09/11/2013 0708			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
4-Chloroaniline	ND		0.56	4.7
Naphthalene	ND		0.72	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	86		46 - 120
2-Fluorobiphenyl	88		48 - 120
p-Terphenyl-d14	98		67 - 150

Analytical Data

Client: Honeywell International Inc

Job Number: 480-45418-1

Client Sample ID: FDUP-090913

Lab Sample ID: 480-45418-7

Date Sampled: 09/09/2013 1015

Client Matrix: Water

Date Received: 09/09/2013 1630

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-138717	Instrument ID:	HP5973U
Prep Method:	3510C	Prep Batch:	480-138326	Lab File ID:	U0577.D
Dilution:	1.0			Initial Weight/Volume:	1057.1 mL
Analysis Date:	09/13/2013 0541			Final Weight/Volume:	1 mL
Prep Date:	09/11/2013 0708			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
4-Chloroaniline	ND		0.56	4.7
Naphthalene	ND		0.72	4.7

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	92		46 - 120
2-Fluorobiphenyl	91		48 - 120
p-Terphenyl-d14	86		67 - 150

Analytical Data

Client: Honeywell International Inc

Job Number: 480-45418-1

Client Sample ID: MW-2-090913

Lab Sample ID: 480-45418-9

Date Sampled: 09/09/2013 1345

Client Matrix: Water

Date Received: 09/09/2013 1630

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	480-138717	Instrument ID:	HP5973U
Prep Method:	3510C	Prep Batch:	480-138326	Lab File ID:	U0578.D
Dilution:	1.0			Initial Weight/Volume:	703.5 mL
Analysis Date:	09/13/2013 0605			Final Weight/Volume:	1 mL
Prep Date:	09/11/2013 0708			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
4-Chloroaniline	ND		0.84	7.1
Naphthalene	ND		1.1	7.1

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	73		46 - 120
2-Fluorobiphenyl	77		48 - 120
p-Terphenyl-d14	84		67 - 150

Analytical Data

Client: Honeywell International Inc

Job Number: 480-45418-1

Client Sample ID: Sump Comp-090913

Lab Sample ID: 480-45418-1

Date Sampled: 09/09/2013 1200

Client Matrix: Water

Date Received: 09/09/2013 1630

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-138593	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-138328	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/12/2013 0335			Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 0840				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Chromium	0.011		0.0010	0.0040
Lead	ND		0.0030	0.0050
Iron	13.7		0.019	0.050
Manganese	3.2		0.00040	0.0030

6020 Metals (ICP/MS)

Analysis Method:	6020	Analysis Batch:	480-138948	Instrument ID:	ELAN
Prep Method:	3020A	Prep Batch:	480-138383	Lab File ID:	e091213A1a.rep
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/12/2013 1535			Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 1020				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.83	J	0.15	1.0
Arsenic	30.0		0.078	1.0
Cadmium	0.22	J	0.071	0.50

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-138565	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-138357	Lab File ID:	H09113W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/11/2013 1432			Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 0900				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	ND		0.00012	0.00020

Analytical Data

Client: Honeywell International Inc

Job Number: 480-45418-1

Client Sample ID: Sump 4-090913

Lab Sample ID: 480-45418-5

Date Sampled: 09/09/2013 1005

Client Matrix: Water

Date Received: 09/09/2013 1630

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-138593	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-138328	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/12/2013 0338			Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 0840				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Chromium	0.0035	J	0.0010	0.0040
Lead	ND		0.0030	0.0050
Iron	10.9		0.019	0.050
Manganese	3.4		0.00040	0.0030

6020 Metals (ICP/MS)

Analysis Method:	6020	Analysis Batch:	480-138948	Instrument ID:	ELAN
Prep Method:	3020A	Prep Batch:	480-138383	Lab File ID:	e091213A1a.rep
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/12/2013 1541			Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 1020				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.51	J	0.15	1.0
Arsenic	11.7		0.078	1.0
Cadmium	0.078	J	0.071	0.50

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-138565	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-138357	Lab File ID:	H09113W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/11/2013 1433			Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 0900				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	ND		0.00012	0.00020

Analytical Data

Client: Honeywell International Inc

Job Number: 480-45418-1

Client Sample ID: MW-2-090913

Lab Sample ID: 480-45418-6

Client Matrix: Water

Date Sampled: 09/09/2013 0852

Date Received: 09/09/2013 1630

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-138593	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-138328	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/12/2013 0358			Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 0840				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Chromium	0.0031	J	0.0010	0.0040
Lead	ND		0.0030	0.0050
Iron	2.3		0.019	0.050
Manganese	0.58		0.00040	0.0030

6020 Metals (ICP/MS)

Analysis Method:	6020	Analysis Batch:	480-138948	Instrument ID:	ELAN
Prep Method:	3020A	Prep Batch:	480-138383	Lab File ID:	e091213A1a.rep
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/12/2013 1614			Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 1020				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.33	J	0.15	1.0
Arsenic	4.4		0.078	1.0
Cadmium	0.10	J	0.071	0.50

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-138565	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-138357	Lab File ID:	H09113W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/11/2013 1444			Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 0900				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	ND		0.00012	0.00020

Analytical Data

Client: Honeywell International Inc

Job Number: 480-45418-1

Client Sample ID: FDUP-090913

Lab Sample ID: 480-45418-7

Date Sampled: 09/09/2013 1015

Client Matrix: Water

Date Received: 09/09/2013 1630

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-138593	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-138328	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/12/2013 0401			Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 0840				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Chromium	0.0032	J	0.0010	0.0040
Lead	ND		0.0030	0.0050
Iron	10.8		0.019	0.050
Manganese	3.4		0.00040	0.0030

6020 Metals (ICP/MS)

Analysis Method:	6020	Analysis Batch:	480-138948	Instrument ID:	ELAN
Prep Method:	3020A	Prep Batch:	480-138383	Lab File ID:	e091213A1a.rep
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/12/2013 1620			Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 1020				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	0.55	J	0.15	1.0
Arsenic	12.6		0.078	1.0
Cadmium	0.072	J	0.071	0.50

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-138565	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-138357	Lab File ID:	H09113W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/11/2013 1446			Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 0900				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	ND		0.00012	0.00020

Analytical Data

Client: Honeywell International Inc

Job Number: 480-45418-1

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-45418-10EB

Date Sampled: 09/09/2013 1230

Client Matrix: Water

Date Received: 09/09/2013 1630

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	480-138593	Instrument ID:	ICAP1
Prep Method:	3005A	Prep Batch:	480-138328	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/12/2013 0404			Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 0840				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Chromium	ND		0.0010	0.0040
Lead	ND		0.0030	0.0050
Iron	0.024	J	0.019	0.050
Manganese	0.0037		0.00040	0.0030

6020 Metals (ICP/MS)

Analysis Method:	6020	Analysis Batch:	480-138948	Instrument ID:	ELAN
Prep Method:	3020A	Prep Batch:	480-138383	Lab File ID:	e091213A1a.rep
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/12/2013 1626			Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 1020				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Antimony	ND		0.15	1.0
Arsenic	0.12	J	0.078	1.0
Cadmium	ND		0.071	0.50

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	480-138565	Instrument ID:	LEEMAN2
Prep Method:	7470A	Prep Batch:	480-138357	Lab File ID:	H09113W1.PRN
Dilution:	1.0			Initial Weight/Volume:	30 mL
Analysis Date:	09/11/2013 1448			Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 0900				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	ND		0.00012	0.00020

Client: Honeywell International Inc

Job Number: 480-45418-1

Surrogate Recovery Report**8260B Volatile Organic Compounds (GC/MS)****Client Matrix: Water**

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
480-45418-2	Sump 1-090913	99	96	90
480-45418-3	Sump 2-090913	97	95	91
480-45418-4	Sump 3-090913	98	95	90
480-45418-5	Sump 4-090913	98	95	90
480-45418-6	MW-2-090913	100	95	89
480-45418-7	FDUP-090913	96	94	91
480-45418-8	TRIP BLANK 090913	97	94	89
MB 480-138961/4		97	94	89
LCS 480-138961/3		97	96	92
480-45418-5 MS	Sump 4-090913 MS	99	95	91
480-45418-5 MSD	Sump 4-090913 MSD	100	96	94

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Client: Honeywell International Inc

Job Number: 480-45418-1

Surrogate Recovery Report**8270C Semivolatile Organic Compounds (GC/MS)****Client Matrix: Water**

Lab Sample ID	Client Sample ID	NBZ %Rec	FBP %Rec	TPH %Rec
480-45418-1	Sump Comp-090913	92	93	89
480-45418-5	Sump 4-090913	86	88	98
480-45418-7	FDUP-090913	92	91	86
480-45418-9	MW-2-090913	73	77	84
MB 480-138326/1-A		85	86	97
LCS 480-138326/2-A		82	83	87
480-45418-5 MS	Sump 4-090913 MS	83	83	35X
480-45418-5 MSD	Sump 4-090913 MSD	78	77	35X

Surrogate	Acceptance Limits
NBZ = Nitrobenzene-d5	46-120
FBP = 2-Fluorobiphenyl	48-120
TPH = p-Terphenyl-d14	67-150

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

Method Blank - Batch: 480-138961

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 480-138961/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 09/13/2013 1437
Prep Date: 09/13/2013 1437
Leach Date: N/A

Analysis Batch: 480-138961
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973Q
Lab File ID: Q0465.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,2-Dichlorobenzene	ND		0.79	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
Benzene	ND		0.41	1.0
Chlorobenzene	ND		0.75	1.0
Ethylbenzene	ND		0.74	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	66 - 137
Toluene-d8 (Surr)	94	71 - 126
4-Bromofluorobenzene (Surr)	89	73 - 120

Lab Control Sample - Batch: 480-138961

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 480-138961/3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 09/13/2013 1409
Prep Date: 09/13/2013 1409
Leach Date: N/A

Analysis Batch: 480-138961
Prep Batch: N/A
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973Q
Lab File ID: Q0464.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2-Dichlorobenzene	25.0	25.6	102	80 - 124	
Benzene	25.0	27.6	110	71 - 124	
Chlorobenzene	25.0	25.9	103	72 - 120	
Ethylbenzene	25.0	25.7	103	77 - 123	
Xylenes, Total	75.0	75.4	101	76 - 122	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	66 - 137
Toluene-d8 (Surr)	96	71 - 126
4-Bromofluorobenzene (Surr)	92	73 - 120

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-138961**

**Method: 8260B
Preparation: 5030B**

MS Lab Sample ID:	480-45418-5	Analysis Batch:	480-138961	Instrument ID:	HP5973Q
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Q0472.D
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/13/2013 1756			Final Weight/Volume:	5 mL
Prep Date:	09/13/2013 1756				
Leach Date:	N/A				

MSD Lab Sample ID:	480-45418-5	Analysis Batch:	480-138961	Instrument ID:	HP5973Q
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	Q0473.D
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/13/2013 1824			Final Weight/Volume:	5 mL
Prep Date:	09/13/2013 1824				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,2-Dichlorobenzene	107	111	80 - 124	4	20		
Benzene	122	125	71 - 124	2	13		F
Chlorobenzene	86	93	72 - 120	6	25		
Ethylbenzene	111	118	77 - 123	5	15		
Xylenes, Total	107	113	76 - 122	5	16		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	99		100		66 - 137		
Toluene-d8 (Surr)	95		96		71 - 126		
4-Bromofluorobenzene (Surr)	91		94		73 - 120		

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-138961**

**Method: 8260B
Preparation: 5030B**

MS Lab Sample ID:	480-45418-5	Units:	ug/L	MSD Lab Sample ID:	480-45418-5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	4.0			Dilution:	4.0
Analysis Date:	09/13/2013 1756			Analysis Date:	09/13/2013 1824
Prep Date:	09/13/2013 1756			Prep Date:	09/13/2013 1824
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
1,2-Dichlorobenzene	ND	100	100	107	111	
Benzene	ND	100	100	122	125	F
Chlorobenzene	33	100	100	120	126	
Ethylbenzene	ND	100	100	111	118	
Xylenes, Total	ND	300	300	321	339	

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

Method Blank - Batch: 480-138326

Method: 8270C
Preparation: 3510C

Lab Sample ID: MB 480-138326/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 09/13/2013 0118
Prep Date: 09/11/2013 0708
Leach Date: N/A

Analysis Batch: 480-138717
Prep Batch: 480-138326
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973U
Lab File ID: U0566.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Result	Qual	MDL	RL
4-Chloroaniline	ND		0.59	5.0
Naphthalene	ND		0.76	5.0
Surrogate	% Rec		Acceptance Limits	
Nitrobenzene-d5	85		46 - 120	
2-Fluorobiphenyl	86		48 - 120	
p-Terphenyl-d14	97		67 - 150	

Lab Control Sample - Batch: 480-138326

Method: 8270C
Preparation: 3510C

Lab Sample ID: LCS 480-138326/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 09/13/2013 0142
Prep Date: 09/11/2013 0708
Leach Date: N/A

Analysis Batch: 480-138717
Prep Batch: 480-138326
Leach Batch: N/A
Units: ug/L

Instrument ID: HP5973U
Lab File ID: U0567.D
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1 mL
Injection Volume: 1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4-Chloroaniline	50.0	42.7	85	60 - 124	
Naphthalene	50.0	39.7	79	35 - 117	
Surrogate		% Rec		Acceptance Limits	
Nitrobenzene-d5		82		46 - 120	
2-Fluorobiphenyl		83		48 - 120	
p-Terphenyl-d14		87		67 - 150	

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-138326**

**Method: 8270C
Preparation: 3510C**

MS Lab Sample ID:	480-45418-5	Analysis Batch:	480-138717	Instrument ID:	HP5973U
Client Matrix:	Water	Prep Batch:	480-138326	Lab File ID:	U0574.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1061 mL
Analysis Date:	09/13/2013 0430			Final Weight/Volume:	1 mL
Prep Date:	09/11/2013 0708			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	480-45418-5	Analysis Batch:	480-138717	Instrument ID:	HP5973U
Client Matrix:	Water	Prep Batch:	480-138326	Lab File ID:	U0575.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1058 mL
Analysis Date:	09/13/2013 0453			Final Weight/Volume:	1 mL
Prep Date:	09/11/2013 0708			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
4-Chloroaniline	83	78	60 - 124	7	22		
Naphthalene	79	76	35 - 117	3	29		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
Nitrobenzene-d5	83		78		46 - 120		
2-Fluorobiphenyl	83		77		48 - 120		
p-Terphenyl-d14	35		X	35	X	67 - 150	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-138326**

**Method: 8270C
Preparation: 3510C**

MS Lab Sample ID:	480-45418-5	Units:	ug/L	MSD Lab Sample ID:	480-45418-5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/13/2013 0430			Analysis Date:	09/13/2013 0453
Prep Date:	09/11/2013 0708			Prep Date:	09/11/2013 0708
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
4-Chloroaniline	ND	47.1	47.3	39.2	36.6
Naphthalene	ND	47.1	47.3	37.1	36.1

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

Method Blank - Batch: 480-138328

Method: 6010B
Preparation: 3005A

Lab Sample ID:	MB 480-138328/1-A	Analysis Batch:	480-138593	Instrument ID:	ICAP1
Client Matrix:	Water	Prep Batch:	480-138328	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/12/2013 0309	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 0840				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chromium	ND		0.0010	0.0040
Lead	ND		0.0030	0.0050
Iron	ND		0.019	0.050
Manganese	ND		0.00040	0.0030

Lab Control Sample - Batch: 480-138328

Method: 6010B
Preparation: 3005A

Lab Sample ID:	LCS 480-138328/2-A	Analysis Batch:	480-138593	Instrument ID:	ICAP1
Client Matrix:	Water	Prep Batch:	480-138328	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/12/2013 0311	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 0840				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium	0.200	0.202	101	80 - 120	
Lead	0.200	0.194	97	80 - 120	
Iron	10.0	9.84	98	80 - 120	
Manganese	0.200	0.200	100	80 - 120	

Post Digestion Spike - Batch: 480-138328

Method: 6010B
Preparation: 3005A

Lab Sample ID:	480-45418-5	Analysis Batch:	480-138593	Instrument ID:	ICAP1
Client Matrix:	Water	Prep Batch:	480-138328	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/12/2013 0344	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 0840				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Chromium	0.0035	J	0.200	0.205	101	75 - 125	
Lead	ND		0.200	0.208	104	75 - 125	
Iron	10.9		10.0	20.70	98	75 - 125	
Manganese	3.4		0.200	3.45	NC	75 - 125	

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-138328**

**Method: 6010B
Preparation: 3005A**

MS Lab Sample ID:	480-45418-5	Analysis Batch:	480-138593	Instrument ID:	ICAP1
Client Matrix:	Water	Prep Batch:	480-138328	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/12/2013 0347			Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 0840				
Leach Date:	N/A				

MSD Lab Sample ID:	480-45418-5	Analysis Batch:	480-138593	Instrument ID:	ICAP1
Client Matrix:	Water	Prep Batch:	480-138328	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/12/2013 0350			Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 0840				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Chromium	104	101	75 - 125	3	20		
Lead	104	103	75 - 125	1	20		
Iron	119	103	75 - 125	7	20		
Manganese	219	180	75 - 125	2	20	4	4

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-138328**

**Method: 6010B
Preparation: 3005A**

MS Lab Sample ID:	480-45418-5	Units:	mg/L	MSD Lab Sample ID:	480-45418-5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/12/2013 0347			Analysis Date:	09/12/2013 0350
Prep Date:	09/11/2013 0840			Prep Date:	09/11/2013 0840
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
	Result/Qual					
Chromium	0.0035	J	0.200	0.200	0.212	0.206
Lead	ND		0.200	0.200	0.209	0.206
Iron	10.9		10.0	10.0	22.83	21.24
Manganese	3.4		0.200	0.200	3.80	3.72

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

Serial Dilution - Batch: 480-138328

Method: 6010B

Preparation: 3005A

Lab Sample ID:	480-45418-5	Analysis Batch:	480-138593	Instrument ID:	ICAP1
Client Matrix:	Water	Prep Batch:	480-138328	Lab File ID:	N/A
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/12/2013 0341	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 0840				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Chromium	0.0035	J	ND	NC	10	
Lead	ND		ND	NC	10	
Iron	10.9		11.25	3.1	10	
Manganese	3.4		3.51	4.4	10	

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

Method Blank - Batch: 480-138383

Method: 6020

Preparation: 3020A

Lab Sample ID: MB 480-138383/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 09/12/2013 1432
Prep Date: 09/11/2013 1020
Leach Date: N/A

Analysis Batch: 480-138948
Prep Batch: 480-138383
Leach Batch: N/A
Units: ug/L

Instrument ID: ELAN
Lab File ID: e091213A1a.rep
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Antimony	ND		0.15	1.0
Arsenic	ND		0.078	1.0
Cadmium	ND		0.071	0.50

Lab Control Sample/

Method: 6020

Lab Control Sample Duplicate Recovery Report - Batch: 480-138383

Preparation: 3020A

LCS Lab Sample ID: LCS 480-138383/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 09/12/2013 1438
Prep Date: 09/11/2013 1020
Leach Date: N/A

Analysis Batch: 480-138948
Prep Batch: 480-138383
Leach Batch: N/A
Units: ug/L

Instrument ID: ELAN
Lab File ID: e091213A1a.rep
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 480-138383/3-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 09/12/2013 1443
Prep Date: 09/11/2013 1020
Leach Date: N/A

Analysis Batch: 480-138948
Prep Batch: 480-138383
Leach Batch: N/A
Units: ug/L

Instrument ID: ELAN
Lab File ID: e091213A1a.rep
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Antimony	106	106	80 - 120	0	20		
Arsenic	103	102	80 - 120	0	20		
Cadmium	100	101	80 - 120	1	20		

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 480-138383

Method: 6020
Preparation: 3020A

LCS Lab Sample ID: LCS 480-138383/2-A Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 09/12/2013 1438
Prep Date: 09/11/2013 1020
Leach Date: N/A

LCSD Lab Sample ID: LCSD 480-138383/3-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 09/12/2013 1443
Prep Date: 09/11/2013 1020
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Antimony	20.0	20.0	21.21	21.24
Arsenic	20.0	20.0	20.53	20.44
Cadmium	20.0	20.0	20.07	20.20

Post Digestion Spike - Batch: 480-138383

Method: 6020
Preparation: 3020A

Lab Sample ID: 480-45418-5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 09/12/2013 1555
Prep Date: 09/11/2013 1020
Leach Date: N/A

Analysis Batch: 480-138948
Prep Batch: 480-138383
Leach Batch: N/A
Units: ug/L

Instrument ID: ELAN
Lab File ID: e091213A1a.rep
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	0.51 J	20.0	22.44	110	75 - 125	
Arsenic	11.7	20.0	34.03	112	75 - 125	
Cadmium	0.078 J	20.0	20.54	102	75 - 125	

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-138383**

**Method: 6020
Preparation: 3020A**

MS Lab Sample ID:	480-45418-5	Analysis Batch:	480-138948	Instrument ID:	ELAN
Client Matrix:	Water	Prep Batch:	480-138383	Lab File ID:	e091213A1a.rep
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/12/2013 1601			Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 1020				
Leach Date:	N/A				

MSD Lab Sample ID:	480-45418-5	Analysis Batch:	480-138948	Instrument ID:	ELAN
Client Matrix:	Water	Prep Batch:	480-138383	Lab File ID:	e091213A1a.rep
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/12/2013 1608			Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 1020				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Antimony	113	113	75 - 125	1	20		
Arsenic	111	107	75 - 125	2	20		
Cadmium	101	101	75 - 125	1	20		

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-138383**

**Method: 6020
Preparation: 3020A**

MS Lab Sample ID:	480-45418-5	Units:	ug/L	MSD Lab Sample ID:	480-45418-5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/12/2013 1601			Analysis Date:	09/12/2013 1608
Prep Date:	09/11/2013 1020			Prep Date:	09/11/2013 1020
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
	Result/Qual					
Antimony	0.51	J	20.0	20.0	23.15	23.02
Arsenic	11.7		20.0	20.0	33.96	33.19
Cadmium	0.078	J	20.0	20.0	20.23	20.34

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

Serial Dilution - Batch: 480-138383

Method: 6020

Preparation: 3020A

Lab Sample ID:	480-45418-5	Analysis Batch:	480-138948	Instrument ID:	ELAN
Client Matrix:	Water	Prep Batch:	480-138383	Lab File ID:	e091213A1a.rep
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/12/2013 1548	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/11/2013 1020				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Antimony	0.51	J	ND	NC	10	
Arsenic	11.7		12.13	3.5	10	
Cadmium	0.078	J	ND	NC	10	

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

Method Blank - Batch: 480-138357

Method: 7470A

Preparation: 7470A

Lab Sample ID: MB 480-138357/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 09/11/2013 1422
Prep Date: 09/11/2013 0900
Leach Date: N/A

Analysis Batch: 480-138565
Prep Batch: 480-138357
Leach Batch: N/A
Units: mg/L

Instrument ID: LEEMAN2
Lab File ID: H09113W1.PRN
Initial Weight/Volume: 30 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	ND		0.00012	0.00020

Lab Control Sample - Batch: 480-138357

Method: 7470A

Preparation: 7470A

Lab Sample ID: LCS 480-138357/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 09/11/2013 1423
Prep Date: 09/11/2013 0900
Leach Date: N/A

Analysis Batch: 480-138565
Prep Batch: 480-138357
Leach Batch: N/A
Units: mg/L

Instrument ID: LEEMAN2
Lab File ID: H09113W1.PRN
Initial Weight/Volume: 30 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00667	0.00647	97	80 - 120	

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 480-138357

Method: 7470A

Preparation: 7470A

MS Lab Sample ID: 480-45418-5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 09/11/2013 1437
Prep Date: 09/11/2013 0900
Leach Date: N/A

Analysis Batch: 480-138565
Prep Batch: 480-138357
Leach Batch: N/A

Instrument ID: LEEMAN2
Lab File ID: H09113W1.PRN
Initial Weight/Volume: 30 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 480-45418-5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 09/11/2013 1443
Prep Date: 09/11/2013 0900
Leach Date: N/A

Analysis Batch: 480-138565
Prep Batch: 480-138357
Leach Batch: N/A

Instrument ID: LEEMAN2
Lab File ID: H09113W1.PRN
Initial Weight/Volume: 30 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	89	91	75 - 125	2	20		

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 480-138357

Method: 7470A
Preparation: 7470A

MS Lab Sample ID: 480-45418-5 Units: mg/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 09/11/2013 1437
Prep Date: 09/11/2013 0900
Leach Date: N/A

MSD Lab Sample ID: 480-45418-5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 09/11/2013 1443
Prep Date: 09/11/2013 0900
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	ND	0.00667	0.00667	0.00597	0.00608

Serial Dilution - Batch: 480-138357

Method: 7470A
Preparation: 7470A

Lab Sample ID: 480-45418-5
Client Matrix: Water
Dilution: 5.0
Analysis Date: 09/11/2013 1435
Prep Date: 09/11/2013 0900
Leach Date: N/A

Analysis Batch: 480-138565
Prep Batch: 480-138357
Leach Batch: N/A
Units: mg/L

Instrument ID: LEEMAN2
Lab File ID: H09113W1.PRN
Initial Weight/Volume: 30 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Mercury	ND	ND	NC	10	

DATA REPORTING QUALIFIERS

Client: Honeywell International Inc

Job Number: 480-45418-1

Lab Section	Qualifier	Description
GC/MS VOA	F	MS/MSD Recovery and/or RPD exceeds the control limits
GC/MS Semi VOA	X	Surrogate is outside control limits
Metals	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:480-138961					
LCS 480-138961/3	Lab Control Sample	T	Water	8260B	
MB 480-138961/4	Method Blank	T	Water	8260B	
480-45418-2	Sump 1-090913	T	Water	8260B	
480-45418-3	Sump 2-090913	T	Water	8260B	
480-45418-4	Sump 3-090913	T	Water	8260B	
480-45418-5	Sump 4-090913	T	Water	8260B	
480-45418-5MS	Matrix Spike	T	Water	8260B	
480-45418-5MSD	Matrix Spike Duplicate	T	Water	8260B	
480-45418-6	MW-2-090913	T	Water	8260B	
480-45418-7	FDUP-090913	T	Water	8260B	
480-45418-8TB	TRIP BLANK 090913	T	Water	8260B	

Report Basis

T = Total

GC/MS Semi VOA

Prep Batch: 480-138326					
LCS 480-138326/2-A	Lab Control Sample	T	Water	3510C	
MB 480-138326/1-A	Method Blank	T	Water	3510C	
480-45418-1	Sump Comp-090913	T	Water	3510C	
480-45418-5	Sump 4-090913	T	Water	3510C	
480-45418-5MS	Matrix Spike	T	Water	3510C	
480-45418-5MSD	Matrix Spike Duplicate	T	Water	3510C	
480-45418-7	FDUP-090913	T	Water	3510C	
480-45418-9	MW-2-090913	T	Water	3510C	
Analysis Batch:480-138717					
LCS 480-138326/2-A	Lab Control Sample	T	Water	8270C	480-138326
MB 480-138326/1-A	Method Blank	T	Water	8270C	480-138326
480-45418-1	Sump Comp-090913	T	Water	8270C	480-138326
480-45418-5	Sump 4-090913	T	Water	8270C	480-138326
480-45418-5MS	Matrix Spike	T	Water	8270C	480-138326
480-45418-5MSD	Matrix Spike Duplicate	T	Water	8270C	480-138326
480-45418-7	FDUP-090913	T	Water	8270C	480-138326
480-45418-9	MW-2-090913	T	Water	8270C	480-138326

Report Basis

T = Total

TestAmerica Buffalo

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 480-138328					
LCS 480-138328/2-A	Lab Control Sample	T	Water	3005A	
MB 480-138328/1-A	Method Blank	T	Water	3005A	
480-45418-1	Sump Comp-090913	T	Water	3005A	
480-45418-5	Sump 4-090913	T	Water	3005A	
480-45418-5MS	Matrix Spike	T	Water	3005A	
480-45418-5MSD	Matrix Spike Duplicate	T	Water	3005A	
480-45418-6	MW-2-090913	T	Water	3005A	
480-45418-7	FDUP-090913	T	Water	3005A	
480-45418-10EB	EQUIPMENT BLANK	T	Water	3005A	
Prep Batch: 480-138357					
LCS 480-138357/2-A	Lab Control Sample	T	Water	7470A	
MB 480-138357/1-A	Method Blank	T	Water	7470A	
480-45418-1	Sump Comp-090913	T	Water	7470A	
480-45418-5	Sump 4-090913	T	Water	7470A	
480-45418-5MS	Matrix Spike	T	Water	7470A	
480-45418-5MSD	Matrix Spike Duplicate	T	Water	7470A	
480-45418-6	MW-2-090913	T	Water	7470A	
480-45418-7	FDUP-090913	T	Water	7470A	
480-45418-10EB	EQUIPMENT BLANK	T	Water	7470A	
Prep Batch: 480-138383					
LCS 480-138383/2-A	Lab Control Sample	T	Water	3020A	
LCSD 480-138383/3-A	Lab Control Sample Duplicate	T	Water	3020A	
MB 480-138383/1-A	Method Blank	T	Water	3020A	
480-45418-1	Sump Comp-090913	T	Water	3020A	
480-45418-5	Sump 4-090913	T	Water	3020A	
480-45418-5MS	Matrix Spike	T	Water	3020A	
480-45418-5MSD	Matrix Spike Duplicate	T	Water	3020A	
480-45418-6	MW-2-090913	T	Water	3020A	
480-45418-7	FDUP-090913	T	Water	3020A	
480-45418-10EB	EQUIPMENT BLANK	T	Water	3020A	
Analysis Batch:480-138565					
LCS 480-138357/2-A	Lab Control Sample	T	Water	7470A	480-138357
MB 480-138357/1-A	Method Blank	T	Water	7470A	480-138357
480-45418-1	Sump Comp-090913	T	Water	7470A	480-138357
480-45418-5	Sump 4-090913	T	Water	7470A	480-138357
480-45418-5MS	Matrix Spike	T	Water	7470A	480-138357
480-45418-5MSD	Matrix Spike Duplicate	T	Water	7470A	480-138357
480-45418-6	MW-2-090913	T	Water	7470A	480-138357
480-45418-7	FDUP-090913	T	Water	7470A	480-138357
480-45418-10EB	EQUIPMENT BLANK	T	Water	7470A	480-138357

TestAmerica Buffalo

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:480-138593					
LCS 480-138328/2-A	Lab Control Sample	T	Water	6010B	480-138328
MB 480-138328/1-A	Method Blank	T	Water	6010B	480-138328
480-45418-1	Sump Comp-090913	T	Water	6010B	480-138328
480-45418-5	Sump 4-090913	T	Water	6010B	480-138328
480-45418-5MS	Matrix Spike	T	Water	6010B	480-138328
480-45418-5MSD	Matrix Spike Duplicate	T	Water	6010B	480-138328
480-45418-6	MW-2-090913	T	Water	6010B	480-138328
480-45418-7	FDUP-090913	T	Water	6010B	480-138328
480-45418-10EB	EQUIPMENT BLANK	T	Water	6010B	480-138328
Analysis Batch:480-138948					
LCS 480-138383/2-A	Lab Control Sample	T	Water	6020	480-138383
LCSD 480-138383/3-A	Lab Control Sample Duplicate	T	Water	6020	480-138383
MB 480-138383/1-A	Method Blank	T	Water	6020	480-138383
480-45418-1	Sump Comp-090913	T	Water	6020	480-138383
480-45418-5	Sump 4-090913	T	Water	6020	480-138383
480-45418-5MS	Matrix Spike	T	Water	6020	480-138383
480-45418-5MSD	Matrix Spike Duplicate	T	Water	6020	480-138383
480-45418-6	MW-2-090913	T	Water	6020	480-138383
480-45418-7	FDUP-090913	T	Water	6020	480-138383
480-45418-10EB	EQUIPMENT BLANK	T	Water	6020	480-138383

Report Basis

T = Total

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

Laboratory Chronicle

Lab ID: 480-45418-1

Client ID: Sump Comp-090913

Sample Date/Time: 09/09/2013 12:00

Received Date/Time: 09/09/2013 16:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	480-45418-A-1-A		480-138717	480-138326	09/11/2013 07:08	1	TAL BUF	DLE
A:8270C	480-45418-A-1-A		480-138717	480-138326	09/13/2013 04:06	1	TAL BUF	ANM
P:3005A	480-45418-C-1-A		480-138593	480-138328	09/11/2013 08:40	1	TAL BUF	NMD2
A:6010B	480-45418-C-1-A		480-138593	480-138328	09/12/2013 03:35	1	TAL BUF	LMH
P:3020A	480-45418-C-1-C		480-138948	480-138383	09/11/2013 10:20	1	TAL BUF	NMD2
A:6020	480-45418-C-1-C		480-138948	480-138383	09/12/2013 15:35	1	TAL BUF	MTM2
P:7470A	480-45418-C-1-B		480-138565	480-138357	09/11/2013 09:00	1	TAL BUF	JRK
A:7470A	480-45418-C-1-B		480-138565	480-138357	09/11/2013 14:32	1	TAL BUF	JRK

Lab ID: 480-45418-2

Client ID: Sump 1-090913

Sample Date/Time: 09/09/2013 11:45

Received Date/Time: 09/09/2013 16:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-45418-A-2		480-138961		09/13/2013 16:06	4	TAL BUF	TRB
A:8260B	480-45418-A-2		480-138961		09/13/2013 16:06	4	TAL BUF	TRB

Lab ID: 480-45418-3

Client ID: Sump 2-090913

Sample Date/Time: 09/09/2013 11:25

Received Date/Time: 09/09/2013 16:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-45418-A-3		480-138961		09/13/2013 16:33	5	TAL BUF	TRB
A:8260B	480-45418-A-3		480-138961		09/13/2013 16:33	5	TAL BUF	TRB

Lab ID: 480-45418-4

Client ID: Sump 3-090913

Sample Date/Time: 09/09/2013 10:52

Received Date/Time: 09/09/2013 16:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-45418-A-4		480-138961		09/13/2013 17:01	4	TAL BUF	TRB
A:8260B	480-45418-A-4		480-138961		09/13/2013 17:01	4	TAL BUF	TRB

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

Laboratory Chronicle

Lab ID: 480-45418-5

Client ID: Sump 4-090913

Sample Date/Time: 09/09/2013 10:05

Received Date/Time: 09/09/2013 16:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-45418-D-5		480-138961		09/13/2013 17:29	4	TAL BUF	TRB
A:8260B	480-45418-D-5		480-138961		09/13/2013 17:29	4	TAL BUF	TRB
P:3510C	480-45418-A-5-C		480-138717	480-138326	09/11/2013 07:08	1	TAL BUF	DLE
A:8270C	480-45418-A-5-C		480-138717	480-138326	09/13/2013 05:17	1	TAL BUF	ANM
P:3005A	480-45418-C-5-A		480-138593	480-138328	09/11/2013 08:40	1	TAL BUF	NMD2
A:6010B	480-45418-C-5-A		480-138593	480-138328	09/12/2013 03:38	1	TAL BUF	LMH
P:3020A	480-45418-C-5-G		480-138948	480-138383	09/11/2013 10:20	1	TAL BUF	NMD2
A:6020	480-45418-C-5-G		480-138948	480-138383	09/12/2013 15:41	1	TAL BUF	MTM2
P:7470A	480-45418-C-5-D		480-138565	480-138357	09/11/2013 09:00	1	TAL BUF	JRK
A:7470A	480-45418-C-5-D		480-138565	480-138357	09/11/2013 14:33	1	TAL BUF	JRK

Lab ID: 480-45418-5

Client ID: Sump 4-090913 MS

Sample Date/Time: 09/09/2013 10:05

Received Date/Time: 09/09/2013 16:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-45418-D-5 MS		480-138961		09/13/2013 17:56	4	TAL BUF	TRB
A:8260B	480-45418-D-5 MS		480-138961		09/13/2013 17:56	4	TAL BUF	TRB
P:3510C	480-45418-A-5-A MS		480-138717	480-138326	09/11/2013 07:08	1	TAL BUF	DLE
A:8270C	480-45418-A-5-A MS		480-138717	480-138326	09/13/2013 04:30	1	TAL BUF	ANM
P:3005A	480-45418-C-5-B MS		480-138593	480-138328	09/11/2013 08:40	1	TAL BUF	NMD2
A:6010B	480-45418-C-5-B MS		480-138593	480-138328	09/12/2013 03:47	1	TAL BUF	LMH
P:3020A	480-45418-C-5-H MS		480-138948	480-138383	09/11/2013 10:20	1	TAL BUF	NMD2
A:6020	480-45418-C-5-H MS		480-138948	480-138383	09/12/2013 16:01	1	TAL BUF	MTM2
P:7470A	480-45418-C-5-E MS		480-138565	480-138357	09/11/2013 09:00	1	TAL BUF	JRK
A:7470A	480-45418-C-5-E MS		480-138565	480-138357	09/11/2013 14:37	1	TAL BUF	JRK

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

Laboratory Chronicle

Lab ID: 480-45418-5

Client ID: Sump 4-090913 MSD

Sample Date/Time: 09/09/2013 10:05

Received Date/Time: 09/09/2013 16:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-45418-D-5 MSD		480-138961		09/13/2013 18:24	4	TAL BUF	TRB
A:8260B	480-45418-D-5 MSD		480-138961		09/13/2013 18:24	4	TAL BUF	TRB
P:3510C	480-45418-A-5-B MSD		480-138717	480-138326	09/11/2013 07:08	1	TAL BUF	DLE
A:8270C	480-45418-A-5-B MSD		480-138717	480-138326	09/13/2013 04:53	1	TAL BUF	ANM
P:3005A	480-45418-C-5-C MSD		480-138593	480-138328	09/11/2013 08:40	1	TAL BUF	NMD2
A:6010B	480-45418-C-5-C MSD		480-138593	480-138328	09/12/2013 03:50	1	TAL BUF	LMH
P:3020A	480-45418-C-5-I MSD		480-138948	480-138383	09/11/2013 10:20	1	TAL BUF	NMD2
A:6020	480-45418-C-5-I MSD		480-138948	480-138383	09/12/2013 16:08	1	TAL BUF	MTM2
P:7470A	480-45418-C-5-F MSD		480-138565	480-138357	09/11/2013 09:00	1	TAL BUF	JRK
A:7470A	480-45418-C-5-F MSD		480-138565	480-138357	09/11/2013 14:43	1	TAL BUF	JRK

Lab ID: 480-45418-5 SD

Client ID: Sump 4-090913

Sample Date/Time: 09/09/2013 10:05

Received Date/Time: 09/09/2013 16:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	480-45418-C-5-A SD ^5		480-138593	480-138328	09/11/2013 08:40	5	TAL BUF	NMD2
A:6010B	480-45418-C-5-A SD ^5		480-138593	480-138328	09/12/2013 03:41	5	TAL BUF	LMH
P:3005A	480-45418-C-5-A PDS		480-138593	480-138328	09/11/2013 08:40	1	TAL BUF	NMD2
A:6010B	480-45418-C-5-A PDS		480-138593	480-138328	09/12/2013 03:44	1	TAL BUF	LMH
P:3020A	480-45418-C-5-G SD ^5		480-138948	480-138383	09/11/2013 10:20	5	TAL BUF	NMD2
A:6020	480-45418-C-5-G SD ^5		480-138948	480-138383	09/12/2013 15:48	5	TAL BUF	MTM2
P:3020A	480-45418-C-5-G PDS		480-138948	480-138383	09/11/2013 10:20	1	TAL BUF	NMD2
A:6020	480-45418-C-5-G PDS		480-138948	480-138383	09/12/2013 15:55	1	TAL BUF	MTM2
P:7470A	480-45418-C-5-D SD ^5		480-138565	480-138357	09/11/2013 09:00	5	TAL BUF	JRK
A:7470A	480-45418-C-5-D SD ^5		480-138565	480-138357	09/11/2013 14:35	5	TAL BUF	JRK

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

Laboratory Chronicle

Lab ID: 480-45418-6

Client ID: MW-2-090913

Sample Date/Time: 09/09/2013 08:52

Received Date/Time: 09/09/2013 16:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-45418-D-6		480-138961		09/13/2013 18:52	1	TAL BUF	TRB
A:8260B	480-45418-D-6		480-138961		09/13/2013 18:52	1	TAL BUF	TRB
P:3005A	480-45418-C-6-A		480-138593	480-138328	09/11/2013 08:40	1	TAL BUF	NMD2
A:6010B	480-45418-C-6-A		480-138593	480-138328	09/12/2013 03:58	1	TAL BUF	LMH
P:3020A	480-45418-C-6-C		480-138948	480-138383	09/11/2013 10:20	1	TAL BUF	NMD2
A:6020	480-45418-C-6-C		480-138948	480-138383	09/12/2013 16:14	1	TAL BUF	MTM2
P:7470A	480-45418-C-6-B		480-138565	480-138357	09/11/2013 09:00	1	TAL BUF	JRK
A:7470A	480-45418-C-6-B		480-138565	480-138357	09/11/2013 14:44	1	TAL BUF	JRK

Lab ID: 480-45418-7

Client ID: FDUP-090913

Sample Date/Time: 09/09/2013 10:15

Received Date/Time: 09/09/2013 16:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-45418-D-7		480-138961		09/13/2013 19:19	4	TAL BUF	TRB
A:8260B	480-45418-D-7		480-138961		09/13/2013 19:19	4	TAL BUF	TRB
P:3510C	480-45418-B-7-A		480-138717	480-138326	09/11/2013 07:08	1	TAL BUF	DLE
A:8270C	480-45418-B-7-A		480-138717	480-138326	09/13/2013 05:41	1	TAL BUF	ANM
P:3005A	480-45418-C-7-A		480-138593	480-138328	09/11/2013 08:40	1	TAL BUF	NMD2
A:6010B	480-45418-C-7-A		480-138593	480-138328	09/12/2013 04:01	1	TAL BUF	LMH
P:3020A	480-45418-C-7-C		480-138948	480-138383	09/11/2013 10:20	1	TAL BUF	NMD2
A:6020	480-45418-C-7-C		480-138948	480-138383	09/12/2013 16:20	1	TAL BUF	MTM2
P:7470A	480-45418-C-7-B		480-138565	480-138357	09/11/2013 09:00	1	TAL BUF	JRK
A:7470A	480-45418-C-7-B		480-138565	480-138357	09/11/2013 14:46	1	TAL BUF	JRK

Lab ID: 480-45418-8

Client ID: TRIP BLANK 090913

Sample Date/Time: 09/09/2013 12:15

Received Date/Time: 09/09/2013 16:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-45418-A-8		480-138961		09/13/2013 19:47	1	TAL BUF	TRB
A:8260B	480-45418-A-8		480-138961		09/13/2013 19:47	1	TAL BUF	TRB

Lab ID: 480-45418-9

Client ID: MW-2-090913

Sample Date/Time: 09/09/2013 13:45

Received Date/Time: 09/09/2013 16:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	480-45418-A-9-A		480-138717	480-138326	09/11/2013 07:08	1	TAL BUF	DLE
A:8270C	480-45418-A-9-A		480-138717	480-138326	09/13/2013 06:05	1	TAL BUF	ANM

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

Laboratory Chronicle

Lab ID: 480-45418-10

Client ID: EQUIPMENT BLANK

Sample Date/Time: 09/09/2013 12:30

Received Date/Time: 09/09/2013 16:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	480-45418-A-10-A		480-138593	480-138328	09/11/2013 08:40	1	TAL BUF	NMD2
A:6010B	480-45418-A-10-A		480-138593	480-138328	09/12/2013 04:04	1	TAL BUF	LMH
P:3020A	480-45418-A-10-C		480-138948	480-138383	09/11/2013 10:20	1	TAL BUF	NMD2
A:6020	480-45418-A-10-C		480-138948	480-138383	09/12/2013 16:26	1	TAL BUF	MTM2
P:7470A	480-45418-A-10-B		480-138565	480-138357	09/11/2013 09:00	1	TAL BUF	JRK
A:7470A	480-45418-A-10-B		480-138565	480-138357	09/11/2013 14:48	1	TAL BUF	JRK

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 480-138961/4		480-138961		09/13/2013 14:37	1	TAL BUF	TRB
A:8260B	MB 480-138961/4		480-138961		09/13/2013 14:37	1	TAL BUF	TRB
P:3510C	MB 480-138326/1-A		480-138717	480-138326	09/11/2013 07:08	1	TAL BUF	DLE
A:8270C	MB 480-138326/1-A		480-138717	480-138326	09/13/2013 01:18	1	TAL BUF	ANM
P:3005A	MB 480-138328/1-A		480-138593	480-138328	09/11/2013 08:40	1	TAL BUF	NMD2
A:6010B	MB 480-138328/1-A		480-138593	480-138328	09/12/2013 03:09	1	TAL BUF	LMH
P:3020A	MB 480-138383/1-A		480-138948	480-138383	09/11/2013 10:20	1	TAL BUF	NMD2
A:6020	MB 480-138383/1-A		480-138948	480-138383	09/12/2013 14:32	1	TAL BUF	MTM2
P:7470A	MB 480-138357/1-A		480-138565	480-138357	09/11/2013 09:00	1	TAL BUF	JRK
A:7470A	MB 480-138357/1-A		480-138565	480-138357	09/11/2013 14:22	1	TAL BUF	JRK

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 480-138961/3		480-138961		09/13/2013 14:09	1	TAL BUF	TRB
A:8260B	LCS 480-138961/3		480-138961		09/13/2013 14:09	1	TAL BUF	TRB
P:3510C	LCS 480-138326/2-A		480-138717	480-138326	09/11/2013 07:08	1	TAL BUF	DLE
A:8270C	LCS 480-138326/2-A		480-138717	480-138326	09/13/2013 01:42	1	TAL BUF	ANM
P:3005A	LCS 480-138328/2-A		480-138593	480-138328	09/11/2013 08:40	1	TAL BUF	NMD2
A:6010B	LCS 480-138328/2-A		480-138593	480-138328	09/12/2013 03:11	1	TAL BUF	LMH
P:3020A	LCS 480-138383/2-A		480-138948	480-138383	09/11/2013 10:20	1	TAL BUF	NMD2
A:6020	LCS 480-138383/2-A		480-138948	480-138383	09/12/2013 14:38	1	TAL BUF	MTM2
P:7470A	LCS 480-138357/2-A		480-138565	480-138357	09/11/2013 09:00	1	TAL BUF	JRK
A:7470A	LCS 480-138357/2-A		480-138565	480-138357	09/11/2013 14:23	1	TAL BUF	JRK

Quality Control Results

Client: Honeywell International Inc

Job Number: 480-45418-1

Laboratory Chronicle

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3020A	LCSD 480-138383/3-A		480-138948	480-138383	09/11/2013 10:20	1	TAL BUF	NMD2
A:6020	LCSD 480-138383/3-A		480-138948	480-138383	09/12/2013 14:43	1	TAL BUF	MTM2

Lab References:

TAL BUF = TestAmerica Buffalo

Certification Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAP	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAP	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAP	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAP	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAP	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAP	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAP	1	2337
TestAmerica Buffalo	New Hampshire	NELAP	1	2973
TestAmerica Buffalo	New Jersey	NELAP	2	NY455
TestAmerica Buffalo	New York	NELAP	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAP	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAP	3	68-00281
TestAmerica Buffalo	Rhode Island	State Program	1	LAO00328
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAP	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAP	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B

Volatile Organic Compounds (GC/MS)
by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Matrix: Water Level: Low
GC Column (1): ZB-624 (60) ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
Sump 1-090913	480-45418-2	99	96	90
Sump 2-090913	480-45418-3	97	95	91
Sump 3-090913	480-45418-4	98	95	90
Sump 4-090913	480-45418-5	98	95	90
MW-2-090913	480-45418-6	100	95	89
FDUP-090913	480-45418-7	96	94	91
TRIP BLANK 090913	480-45418-8	97	94	89
	MB 480-138961/4	97	94	89
	LCS 480-138961/3	97	96	92
Sump 4-090913 MS	480-45418-5 MS	99	95	91
Sump 4-090913 MSD	480-45418-5 MSD	100	96	94

	<u>QC LIMITS</u>
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: Q0464.D
Lab ID: LCS 480-138961/3 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,2-Dichlorobenzene	25.0	25.6	102	80-124	
Benzene	25.0	27.6	110	71-124	
Chlorobenzene	25.0	25.9	103	72-120	
Ethylbenzene	25.0	25.7	103	77-123	
Xylenes, Total	75.0	75.4	101	76-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: Q0472.D
Lab ID: 480-45418-5 MS Client ID: Sump 4-090913 MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,2-Dichlorobenzene	100	ND	107	107	80-124	
Benzene	100	ND	122	122	71-124	
Chlorobenzene	100	33	120	86	72-120	
Ethylbenzene	100	ND	111	111	77-123	
Xylenes, Total	300	ND	321	107	76-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: Q0473.D
 Lab ID: 480-45418-5 MSD Client ID: Sump 4-090913 MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,2-Dichlorobenzene	100	111	111	4	20	80-124	
Benzene	100	125	125	2	13	71-124	F
Chlorobenzene	100	126	93	6	25	72-120	
Ethylbenzene	100	118	118	5	15	77-123	
Xylenes, Total	300	339	113	5	16	76-122	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG No.: _____
 Lab File ID: Q0465.D Lab Sample ID: MB 480-138961/4
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973Q Date Analyzed: 09/13/2013 14:37
 GC Column: ZB-624 (60) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-138961/3	Q0464.D	09/13/2013 14:09
Sump 1-090913	480-45418-2	Q0468.D	09/13/2013 16:06
Sump 2-090913	480-45418-3	Q0469.D	09/13/2013 16:33
Sump 3-090913	480-45418-4	Q0470.D	09/13/2013 17:01
Sump 4-090913	480-45418-5	Q0471.D	09/13/2013 17:29
Sump 4-090913 MS MS	480-45418-5 MS	Q0472.D	09/13/2013 17:56
Sump 4-090913 MSD MSD	480-45418-5 MSD	Q0473.D	09/13/2013 18:24
MW-2-090913	480-45418-6	Q0474.D	09/13/2013 18:52
FDUP-090913	480-45418-7	Q0475.D	09/13/2013 19:19
TRIP BLANK 090913	480-45418-8	Q0476.D	09/13/2013 19:47

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG No.: _____
 Lab File ID: Q9492.D BFB Injection Date: 07/25/2013
 Instrument ID: HP5973Q BFB Injection Time: 12:21
 Analysis Batch No.: 130641

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	20.3
75	30.0 - 60.0 % of mass 95	48.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.5
173	Less than 2.0 % of mass 174	0.6 (0.7)1
174	50.0 - 120.00 % of mass 95	84.1
175	5.0 - 9.0 % of mass 174	5.1 (6.1)1
176	95.0 - 101.0 % of mass 174	84.1 (100.0)1
177	5.0 - 9.0 % of mass 176	5.5 (6.5)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-130641/2	Q9494.D	07/25/2013	13:13
	IC 480-130641/3	Q9495.D	07/25/2013	13:41
	IC 480-130641/4	Q9496.D	07/25/2013	14:08
	ICIS 480-130641/5	Q9497.D	07/25/2013	14:36
	IC 480-130641/6	Q9498.D	07/25/2013	15:04
	IC 480-130641/7	Q9499.D	07/25/2013	15:31

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Lab File ID: Q0462.D BFB Injection Date: 09/13/2013
Instrument ID: HP5973Q BFB Injection Time: 13:11
Analysis Batch No.: 138961

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	20.7
75	30.0 - 60.0 % of mass 95	46.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.3
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	78.8
175	5.0 - 9.0 % of mass 174	5.8 (7.4) 1
176	95.0 - 101.0 % of mass 174	75.8 (96.1) 1
177	5.0 - 9.0 % of mass 176	5.6 (7.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-138961/2	Q0463.D	09/13/2013	13:34
	LCS 480-138961/3	Q0464.D	09/13/2013	14:09
	MB 480-138961/4	Q0465.D	09/13/2013	14:37
Sump 1-090913	480-45418-2	Q0468.D	09/13/2013	16:06
Sump 2-090913	480-45418-3	Q0469.D	09/13/2013	16:33
Sump 3-090913	480-45418-4	Q0470.D	09/13/2013	17:01
Sump 4-090913	480-45418-5	Q0471.D	09/13/2013	17:29
Sump 4-090913 MS MS	480-45418-5 MS	Q0472.D	09/13/2013	17:56
Sump 4-090913 MSD MSD	480-45418-5 MSD	Q0473.D	09/13/2013	18:24
MW-2-090913	480-45418-6	Q0474.D	09/13/2013	18:52
FDUP-090913	480-45418-7	Q0475.D	09/13/2013	19:19
TRIP BLANK 090913	480-45418-8	Q0476.D	09/13/2013	19:47

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG No.: _____
 Sample No.: ICIS 480-130641/5 Date Analyzed: 07/25/2013 14:36
 Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): Q9497.D Heated Purge: (Y/N) N
 Calibration ID: 14270

	DFB		CBZ		DCB	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	620038	5.01	302943	7.20	317522	9.06
UPPER LIMIT	1240076	5.51	605886	7.70	635044	9.56
LOWER LIMIT	310019	4.51	151472	6.70	158761	8.56
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-138961/2		539454	5.00	274230	7.19	265710 9.06

DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG No.: _____
 Sample No.: CCVIS 480-138961/2 Date Analyzed: 09/13/2013 13:34
 Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): Q0463.D Heated Purge: (Y/N) N
 Calibration ID: 14270

		DFB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		539454	5.00	274230	7.19	265710	9.06
UPPER LIMIT		1078908	5.50	548460	7.69	531420	9.56
LOWER LIMIT		269727	4.50	137115	6.69	132855	8.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-138961/3		540976	5.00	273781	7.19	270644	9.06
MB 480-138961/4		516966	5.00	267276	7.20	265165	9.06
480-45418-2	Sump 1-090913	514750	5.00	264920	7.19	262475	9.06
480-45418-3	Sump 2-090913	494936	5.00	256106	7.20	254879	9.06
480-45418-4	Sump 3-090913	499113	5.00	254731	7.20	256371	9.06
480-45418-5	Sump 4-090913	495850	5.00	256764	7.19	254785	9.06
480-45418-5 MS	Sump 4-090913 MS MS	502197	5.00	260475	7.19	260641	9.06
480-45418-5 MSD	Sump 4-090913 MSD MSD	495857	5.00	252141	7.19	257489	9.06
480-45418-6	MW-2-090913	492733	5.01	254303	7.20	253448	9.06
480-45418-7	FDUP-090913	501059	5.00	254548	7.20	250418	9.06
480-45418-8	TRIP BLANK 090913	480229	5.00	251462	7.20	244778	9.06

DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG No.: _____
 Client Sample ID: Sump 1-090913 Lab Sample ID: 480-45418-2
 Matrix: Water Lab File ID: Q0468.D
 Analysis Method: 8260B Date Collected: 09/09/2013 11:45
 Sample wt/vol: 5(mL) Date Analyzed: 09/13/2013 16:06
 Soil Aliquot Vol: _____ Dilution Factor: 4
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 138961 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	ND		4.0	3.2
106-46-7	1,4-Dichlorobenzene	ND		4.0	3.4
71-43-2	Benzene	ND		4.0	1.6
108-90-7	Chlorobenzene	13		4.0	3.0
100-41-4	Ethylbenzene	ND		4.0	3.0
1330-20-7	Xylenes, Total	ND		8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		66-137
2037-26-5	Toluene-d8 (Surr)	96		71-126
460-00-4	4-Bromofluorobenzene (Surr)	90		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0468.D
 Lims ID: 480-45418-A-2 Client ID: Sump 1-090913
 Inject. Date: 13-Sep-2013 16:06:30 Dil. Factor: 4.0000
 Sample Type: Client
 Sample ID: 480-45418-A-2
 Misc. Info.: 480-0025207-007
 Operator: TRB Instrument ID: HP5973Q
 Purge Vol: 5.000 mL ALS Bottle#: 7
 Lims Batch ID: 138961 Lims Sample ID: 7
 Detector: MS SCAN
 Method: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q-8260.m
 Last Update: 13-Sep-2013 21:15:31 Calib Date: 25-Jul-2013 15:31:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK025

First Level Reviewer: BrandtT

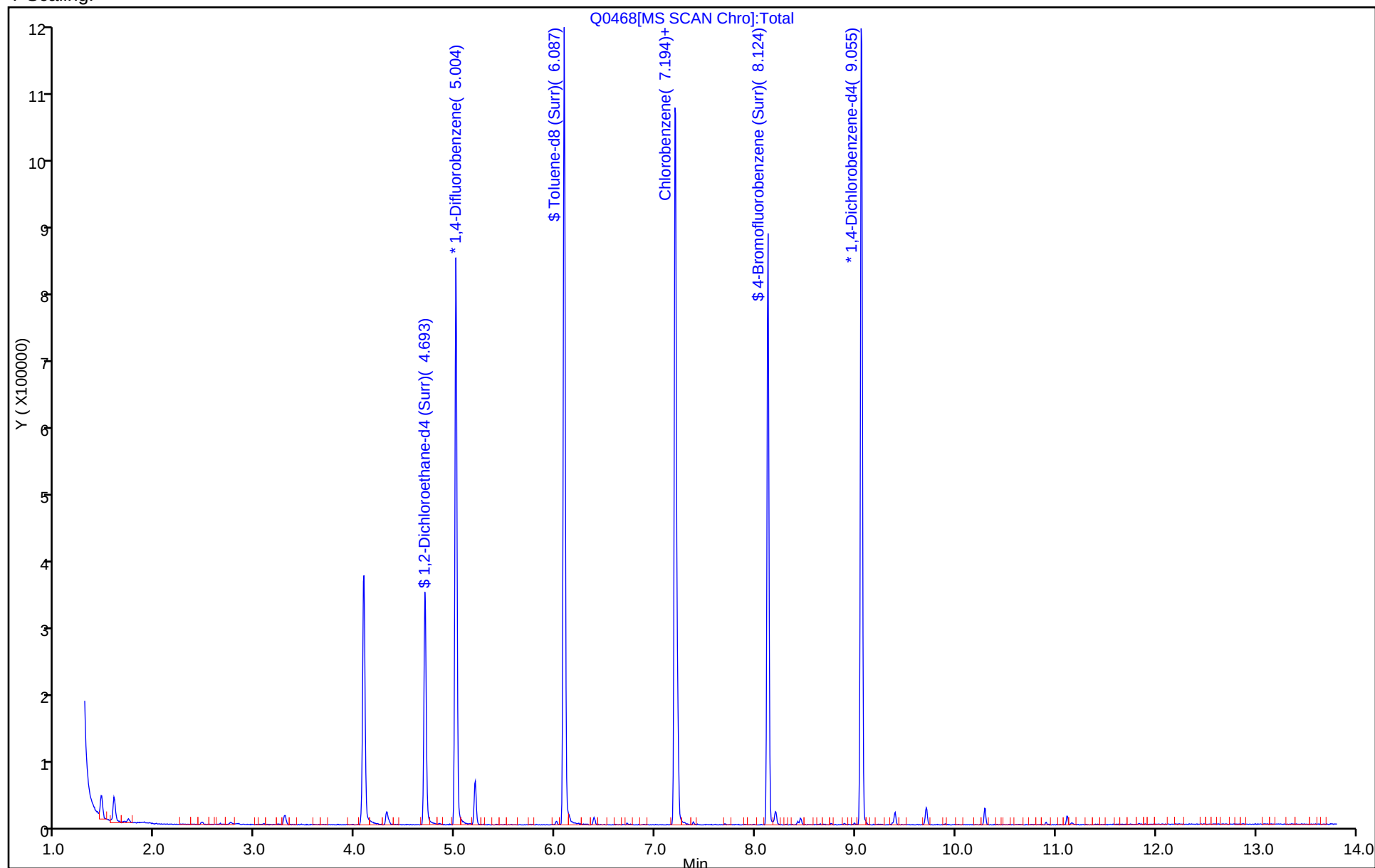
Date: 13-Sep-2013 23:35:22

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.004	5.004	0.0	95	514750	25.0	
* 2 Chlorobenzene-d5	82	7.194	7.194	0.0	85	264920	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.061	9.056	0.005	95	262475	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.693	4.694	-0.001	89	95923	24.6	
\$ 5 Toluene-d8 (Surr)	98	6.087	6.087	0.0	84	621640	23.9	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.124	8.125	-0.001	89	194612	22.5	
57 Benzene	78		4.718					
87 Chlorobenzene	112	7.218	7.219	-0.001	92	73322	3.27	
88 Ethylbenzene	91		7.286					
90 m-Xylene & p-Xylene	106		7.377					
91 o-Xylene	106		7.693					
113 1,4-Dichlorobenzene	146		9.080					
116 1,2-Dichlorobenzene	146		9.384					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0468.D
Injection Date: 13-Sep-2013 16:06:30 Limit Group: MV - 8260B ICAL
Client ID: Sump 1-090913 Instrument ID: HP5973Q
Lims Batch ID: 138961 Lims Sample ID: 7
Operator ID: TRB Purge Vol: 5.000 mL
Column Type: ZB-624 Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0468.D

Injection Date: 13-Sep-2013 16:06:30

Limit Group: MV - 8260B ICAL

Client ID: Sump 1-090913

Instrument ID: HP5973Q

Lims Batch ID: 138961

Lims Sample ID: 7

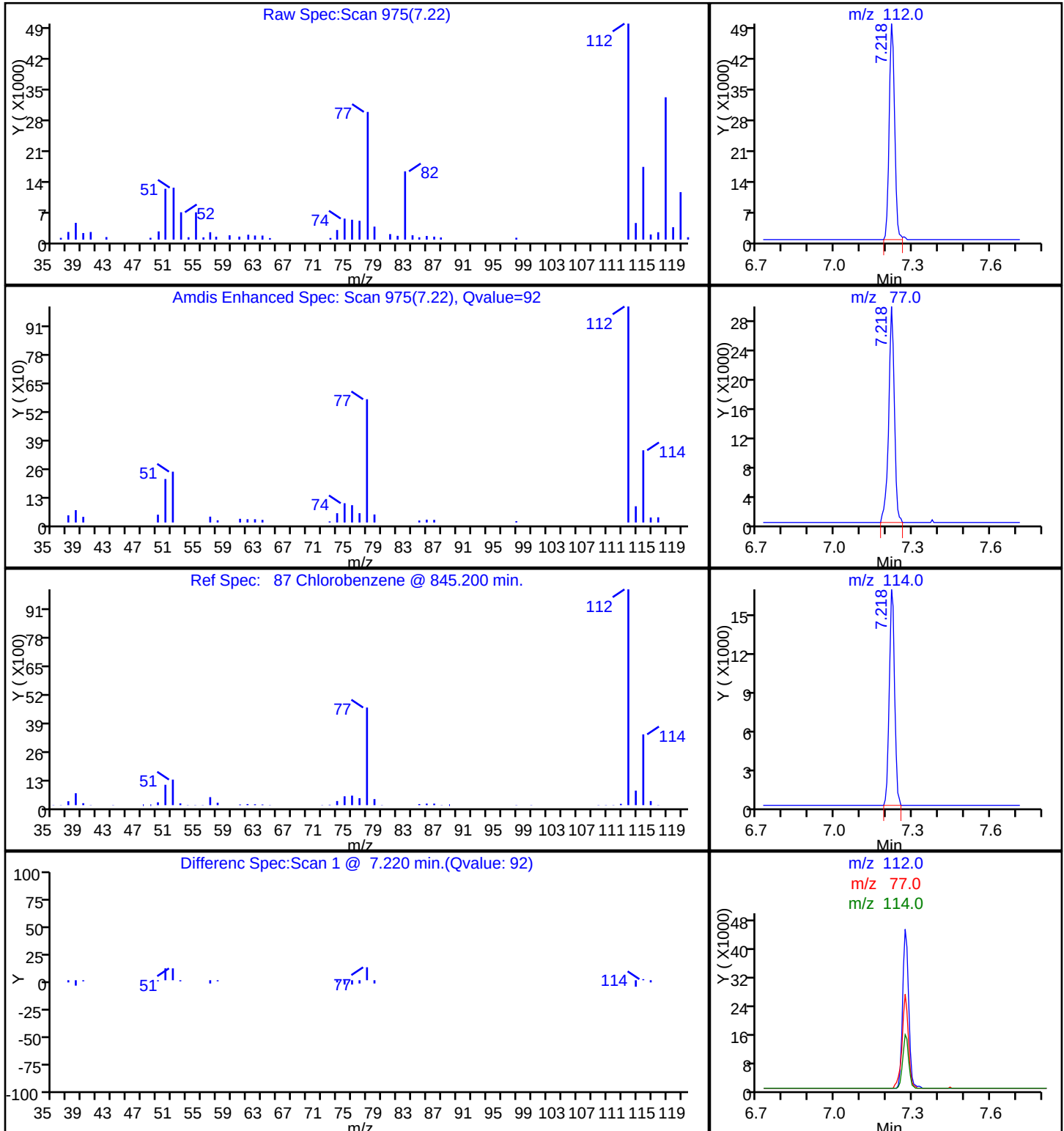
Operator ID: TRB

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

87 Chlorobenzene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Client Sample ID: Sump 2-090913 Lab Sample ID: 480-45418-3

Matrix: Water Lab File ID: Q0469.D

Analysis Method: 8260B Date Collected: 09/09/2013 11:25

Sample wt/vol: 5(mL) Date Analyzed: 09/13/2013 16:33

Soil Aliquot Vol: _____ Dilution Factor: 5

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 138961 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
71-43-2	Benzene	ND		5.0	2.1
108-90-7	Chlorobenzene	16		5.0	3.8
100-41-4	Ethylbenzene	ND		5.0	3.7
1330-20-7	Xylenes, Total	ND		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		66-137
2037-26-5	Toluene-d8 (Surr)	95		71-126
460-00-4	4-Bromofluorobenzene (Surr)	91		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0469.D
 Lims ID: 480-45418-A-3 Client ID: Sump 2-090913
 Inject. Date: 13-Sep-2013 16:33:30 Dil. Factor: 5.0000
 Sample Type: Client
 Sample ID: 480-45418-A-3
 Misc. Info.: 480-0025207-008
 Operator: TRB Instrument ID: HP5973Q
 Purge Vol: 5.000 mL ALS Bottle#: 8
 Lims Batch ID: 138961 Lims Sample ID: 8
 Detector: MS SCAN
 Method: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q-8260.m
 Last Update: 13-Sep-2013 21:15:31 Calib Date: 25-Jul-2013 15:31:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK025

First Level Reviewer: BrandtT

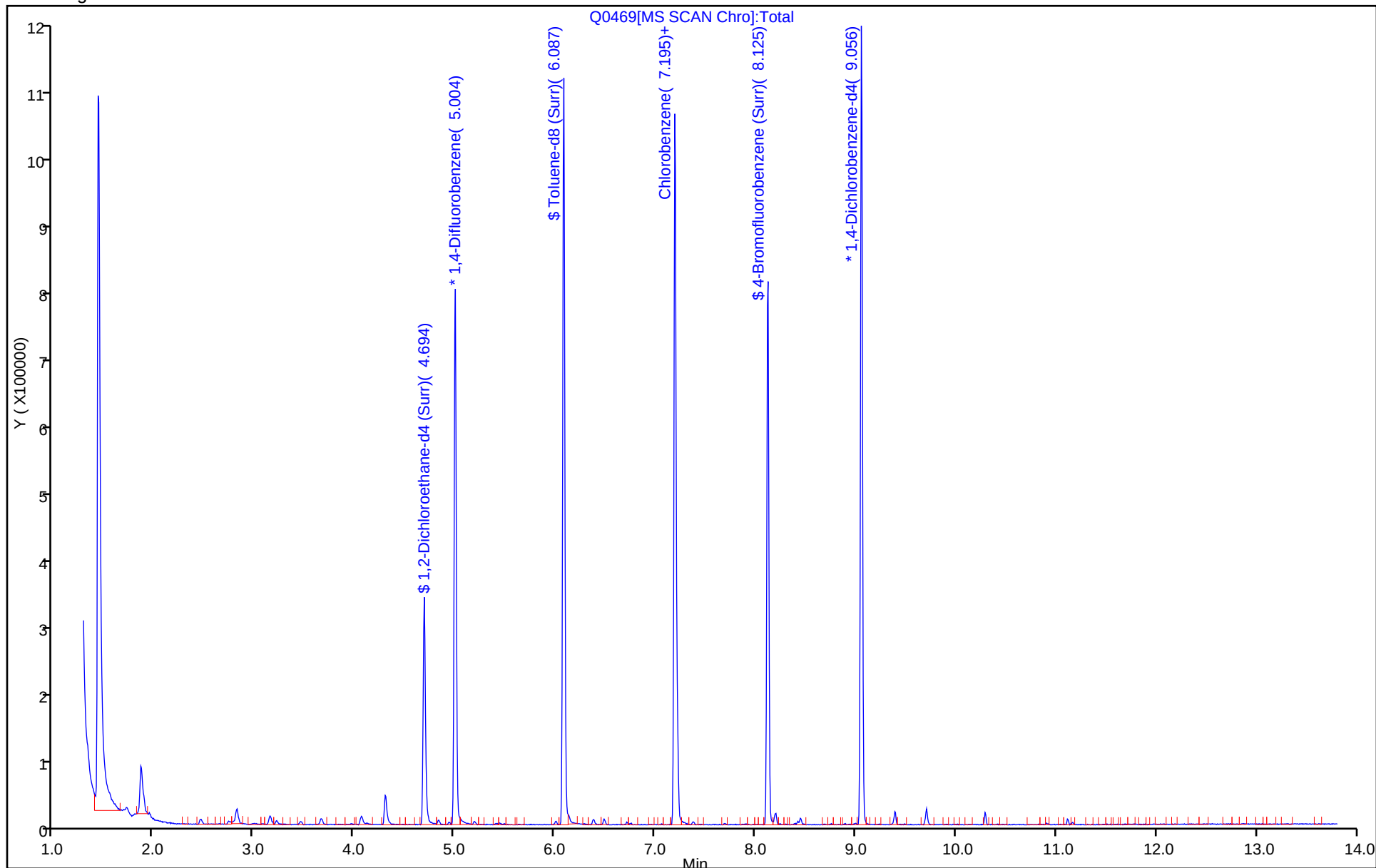
Date: 13-Sep-2013 23:35:24

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.004	5.004	0.0	95	494936	25.0	
* 2 Chlorobenzene-d5	82	7.195	7.194	0.001	85	256106	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.056	9.056	0.0	96	254879	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.694	4.694	0.0	96	91147	24.3	
\$ 5 Toluene-d8 (Surr)	98	6.087	6.087	0.0	93	597226	23.8	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.125	8.125	0.0	91	190157	22.7	
57 Benzene	78		4.718					
87 Chlorobenzene	112	7.219	7.219	0.0	92	67338	3.11	
88 Ethylbenzene	91		7.286					
90 m-Xylene & p-Xylene	106		7.377					
91 o-Xylene	106		7.693					
113 1,4-Dichlorobenzene	146		9.080					
116 1,2-Dichlorobenzene	146		9.384					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0469.D
Injection Date: 13-Sep-2013 16:33:30 Limit Group: MV - 8260B ICAL
Client ID: Sump 2-090913 Instrument ID: HP5973Q
Lims Batch ID: 138961 Lims Sample ID: 8
Operator ID: TRB Purge Vol: 5.000 mL
Column Type: ZB-624 Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0469.D

Injection Date: 13-Sep-2013 16:33:30

Limit Group: MV - 8260B ICAL

Client ID: Sump 2-090913

Instrument ID: HP5973Q

Lims Batch ID: 138961

Lims Sample ID: 8

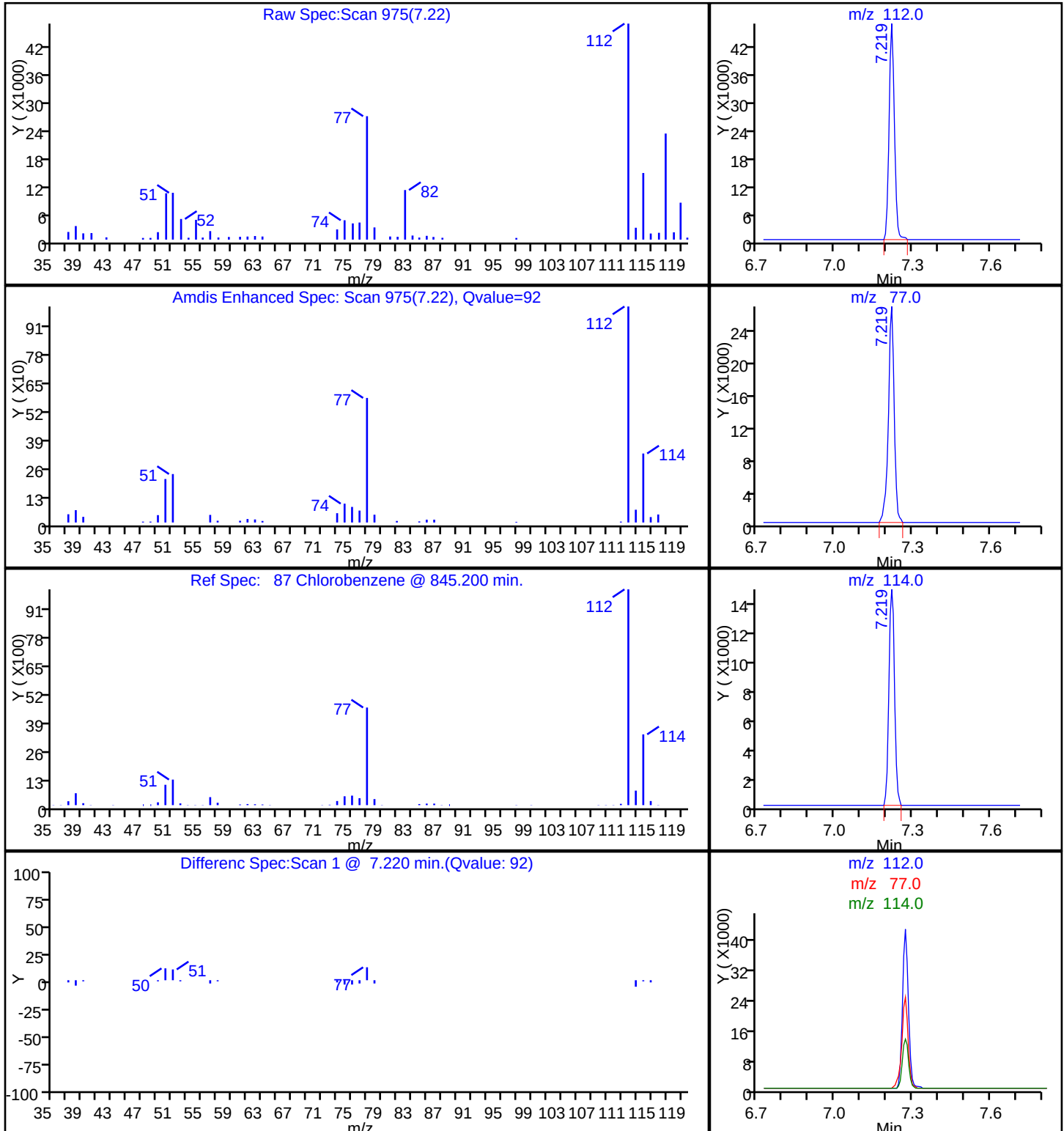
Operator ID: TRB

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

87 Chlorobenzene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG No.: _____
 Client Sample ID: Sump 3-090913 Lab Sample ID: 480-45418-4
 Matrix: Water Lab File ID: Q0470.D
 Analysis Method: 8260B Date Collected: 09/09/2013 10:52
 Sample wt/vol: 5(mL) Date Analyzed: 09/13/2013 17:01
 Soil Aliquot Vol: _____ Dilution Factor: 4
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 138961 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	ND		4.0	3.2
106-46-7	1,4-Dichlorobenzene	ND		4.0	3.4
71-43-2	Benzene	ND		4.0	1.6
108-90-7	Chlorobenzene	ND		4.0	3.0
100-41-4	Ethylbenzene	ND		4.0	3.0
1330-20-7	Xylenes, Total	ND		8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		66-137
2037-26-5	Toluene-d8 (Surr)	95		71-126
460-00-4	4-Bromofluorobenzene (Surr)	90		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0470.D
 Lims ID: 480-45418-A-4 Client ID: Sump 3-090913
 Inject. Date: 13-Sep-2013 17:01:30 Dil. Factor: 4.0000
 Sample Type: Client
 Sample ID: 480-45418-A-4
 Misc. Info.: 480-0025207-009
 Operator: TRB Instrument ID: HP5973Q
 Purge Vol: 5.000 mL ALS Bottle#: 9
 Lims Batch ID: 138961 Lims Sample ID: 9
 Detector: MS SCAN
 Method: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q-8260.m
 Last Update: 13-Sep-2013 21:15:31 Calib Date: 25-Jul-2013 15:31:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK025

First Level Reviewer: BrandtT

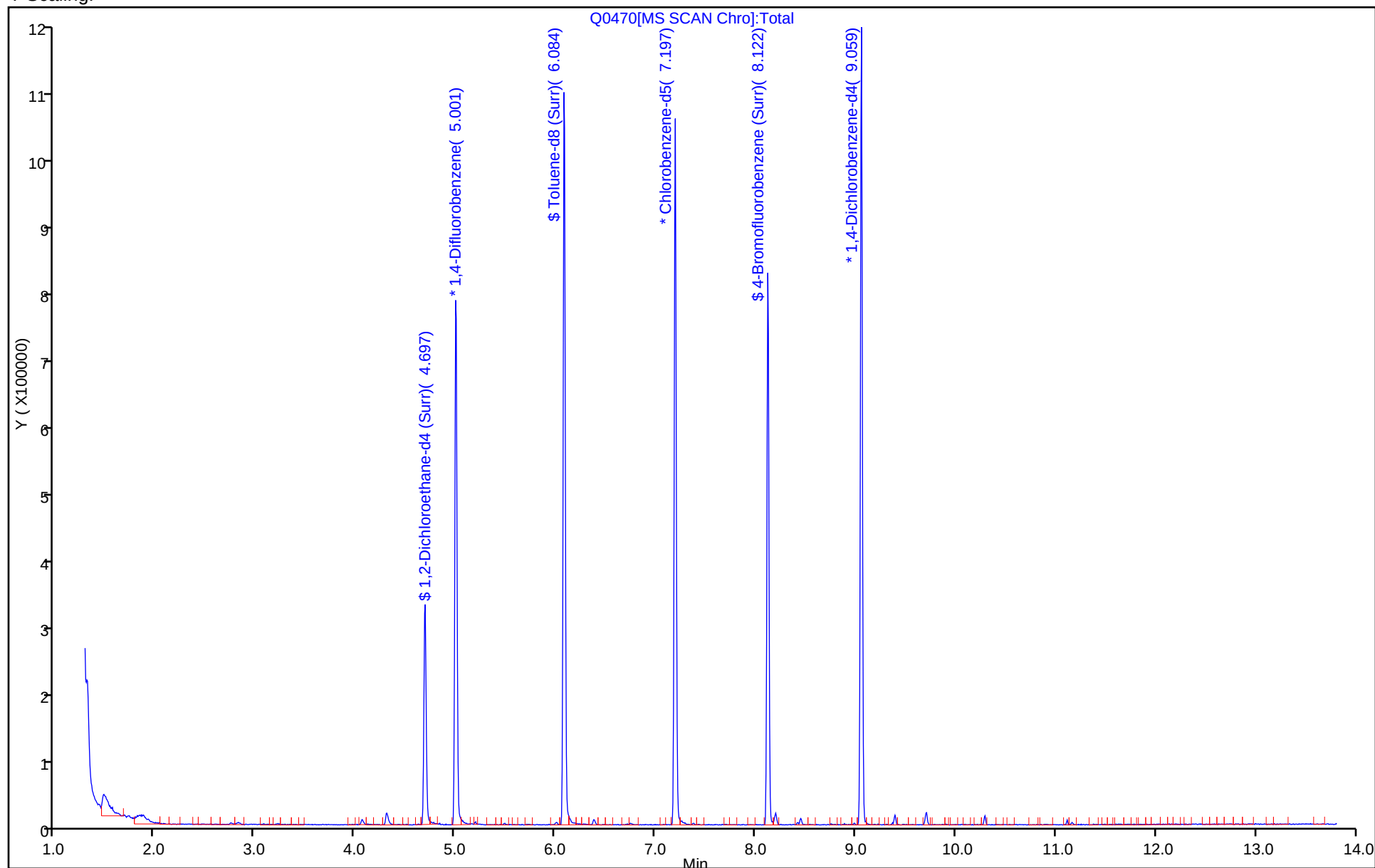
Date: 13-Sep-2013 23:35:27

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.001	5.004	-0.003	95	499113	25.0	
* 2 Chlorobenzene-d5	82	7.197	7.194	0.003	87	254731	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.059	9.056	0.003	95	256371	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.697	4.694	0.003	89	92676	24.6	
\$ 5 Toluene-d8 (Surr)	98	6.084	6.087	-0.003	84	592954	23.7	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.122	8.125	-0.003	88	187881	22.6	
57 Benzene	78		4.718					
87 Chlorobenzene	112		7.219					
88 Ethylbenzene	91		7.286					
90 m-Xylene & p-Xylene	106		7.377					
91 o-Xylene	106		7.693					
113 1,4-Dichlorobenzene	146		9.080					
116 1,2-Dichlorobenzene	146		9.384					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0470.D
Injection Date: 13-Sep-2013 17:01:30 Limit Group: MV - 8260B ICAL
Client ID: Sump 3-090913 Instrument ID: HP5973Q
Lims Batch ID: 138961 Lims Sample ID: 9
Operator ID: TRB Purge Vol: 5.000 mL
Column Type: ZB-624 Column Dia: 0.25 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Client Sample ID: Sump 4-090913 Lab Sample ID: 480-45418-5

Matrix: Water Lab File ID: Q0471.D

Analysis Method: 8260B Date Collected: 09/09/2013 10:05

Sample wt/vol: 5(mL) Date Analyzed: 09/13/2013 17:29

Soil Aliquot Vol: _____ Dilution Factor: 4

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 138961 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	ND		4.0	3.2
106-46-7	1,4-Dichlorobenzene	ND		4.0	3.4
71-43-2	Benzene	ND		4.0	1.6
108-90-7	Chlorobenzene	33		4.0	3.0
100-41-4	Ethylbenzene	ND		4.0	3.0
1330-20-7	Xylenes, Total	ND		8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		66-137
2037-26-5	Toluene-d8 (Surr)	95		71-126
460-00-4	4-Bromofluorobenzene (Surr)	90		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0471.D
 Lims ID: 480-45418-D-5 Client ID: Sump 4-090913
 Inject. Date: 13-Sep-2013 17:29:30 Dil. Factor: 4.0000
 Sample Type: Client
 Sample ID: 480-45418-D-5
 Misc. Info.: 480-0025207-010
 Operator: TRB Instrument ID: HP5973Q
 Purge Vol: 5.000 mL ALS Bottle#: 10
 Lims Batch ID: 138961 Lims Sample ID: 10
 Detector: MS SCAN

Method: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q-8260.m
 Last Update: 13-Sep-2013 21:15:31 Calib Date: 25-Jul-2013 15:31:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK025

First Level Reviewer: BrandtT

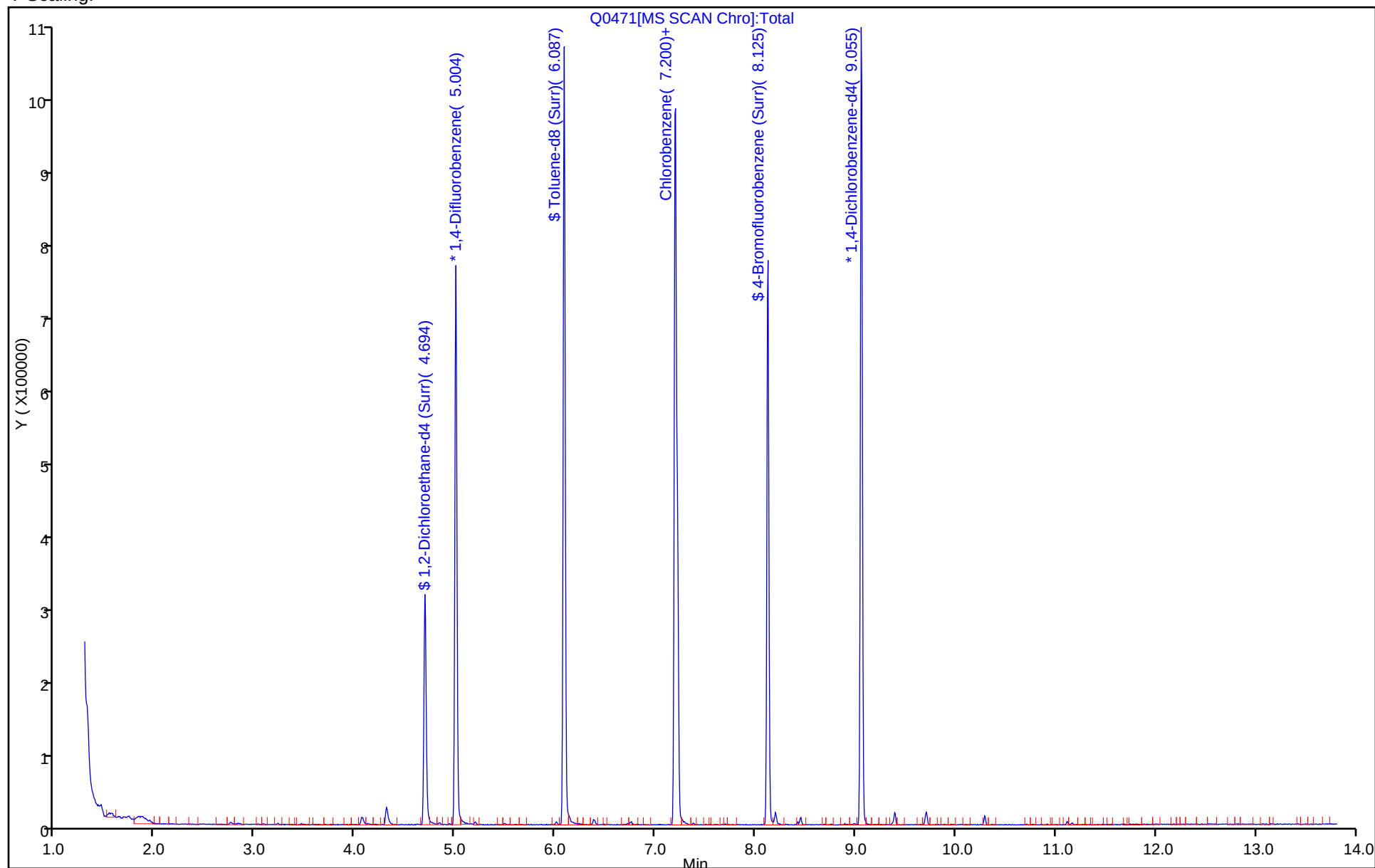
Date: 13-Sep-2013 23:35:30

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.004	5.004	0.0	95	495850	25.0	
* 2 Chlorobenzene-d5	82	7.194	7.194	0.0	85	256764	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.055	9.056	-0.001	96	254785	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.694	4.694	0.0	97	91854	24.5	
\$ 5 Toluene-d8 (Surr)	98	6.087	6.087	0.0	93	598270	23.8	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.125	8.125	0.0	90	189276	22.6	
57 Benzene	78		4.718					
87 Chlorobenzene	112	7.218	7.219	-0.001	92	180197	8.30	
88 Ethylbenzene	91		7.286					
90 m-Xylene & p-Xylene	106		7.377					
91 o-Xylene	106		7.693					
113 1,4-Dichlorobenzene	146		9.080					
116 1,2-Dichlorobenzene	146		9.384					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0471.D
Injection Date: 13-Sep-2013 17:29:30 Limit Group: MV - 8260B ICAL
Client ID: Sump 4-090913 Instrument ID: HP5973Q
Lims Batch ID: 138961 Lims Sample ID: 10
Operator ID: TRB Purge Vol: 5.000 mL
Column Type: ZB-624 Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0471.D

Injection Date: 13-Sep-2013 17:29:30

Limit Group: MV - 8260B ICAL

Client ID: Sump 4-090913

Instrument ID: HP5973Q

Lims Batch ID: 138961

Lims Sample ID: 10

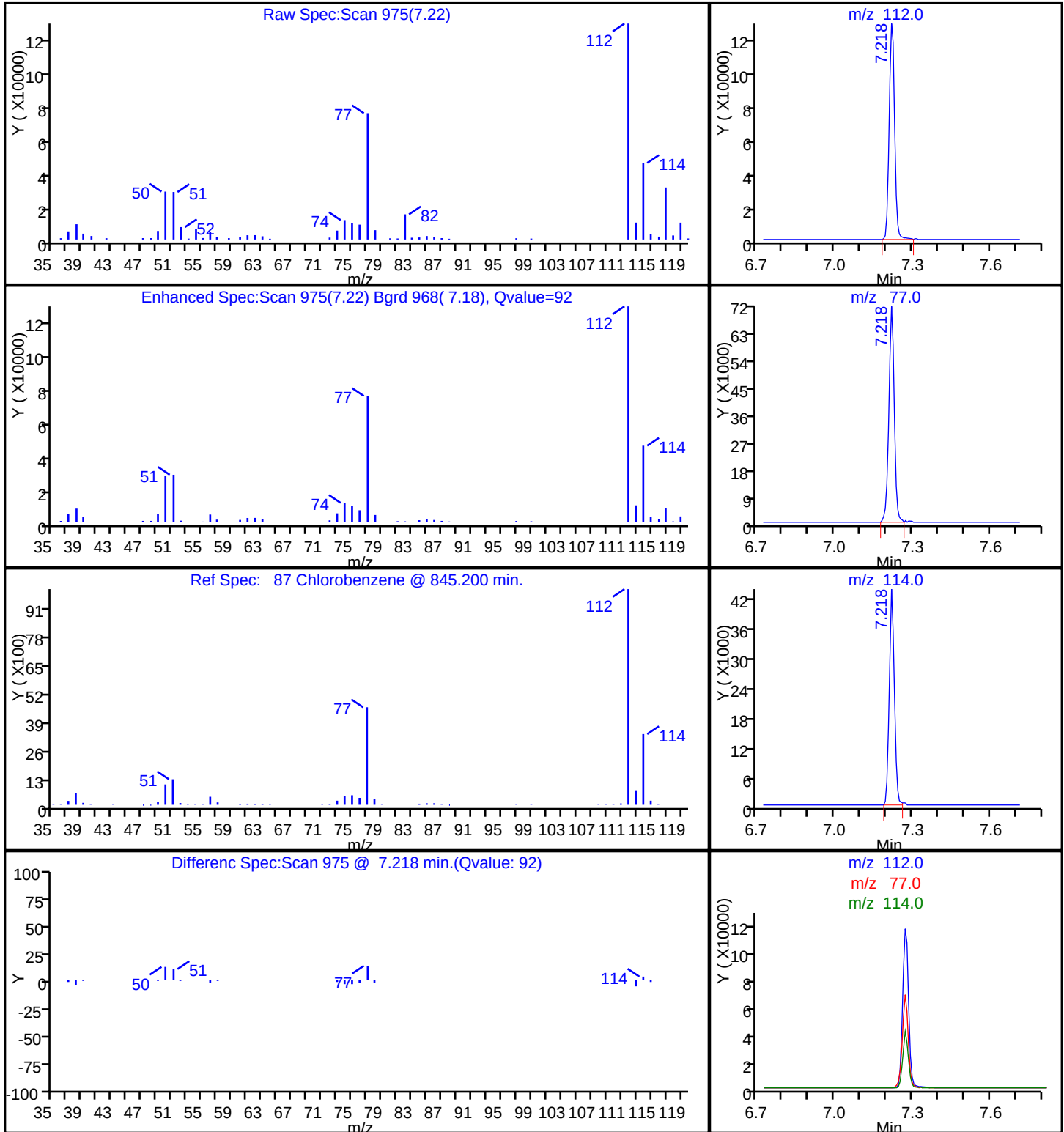
Operator ID: TRB

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

87 Chlorobenzene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG No.: _____
 Client Sample ID: MW-2-090913 Lab Sample ID: 480-45418-6
 Matrix: Water Lab File ID: Q0474.D
 Analysis Method: 8260B Date Collected: 09/09/2013 08:52
 Sample wt/vol: 5(mL) Date Analyzed: 09/13/2013 18:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 138961 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
71-43-2	Benzene	ND		1.0	0.41
108-90-7	Chlorobenzene	ND		1.0	0.75
100-41-4	Ethylbenzene	ND		1.0	0.74
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		66-137
2037-26-5	Toluene-d8 (Surr)	95		71-126
460-00-4	4-Bromofluorobenzene (Surr)	89		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0474.D
 Lims ID: 480-45418-D-6 Client ID: MW-2-090913
 Inject. Date: 13-Sep-2013 18:52:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-45418-D-6
 Misc. Info.: 480-0025207-013
 Operator: TRB Instrument ID: HP5973Q
 Purge Vol: 5.000 mL ALS Bottle#: 13
 Lims Batch ID: 138961 Lims Sample ID: 13
 Detector: MS SCAN
 Method: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q-8260.m
 Last Update: 13-Sep-2013 21:15:31 Calib Date: 25-Jul-2013 15:31:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK025

First Level Reviewer: BrandtT

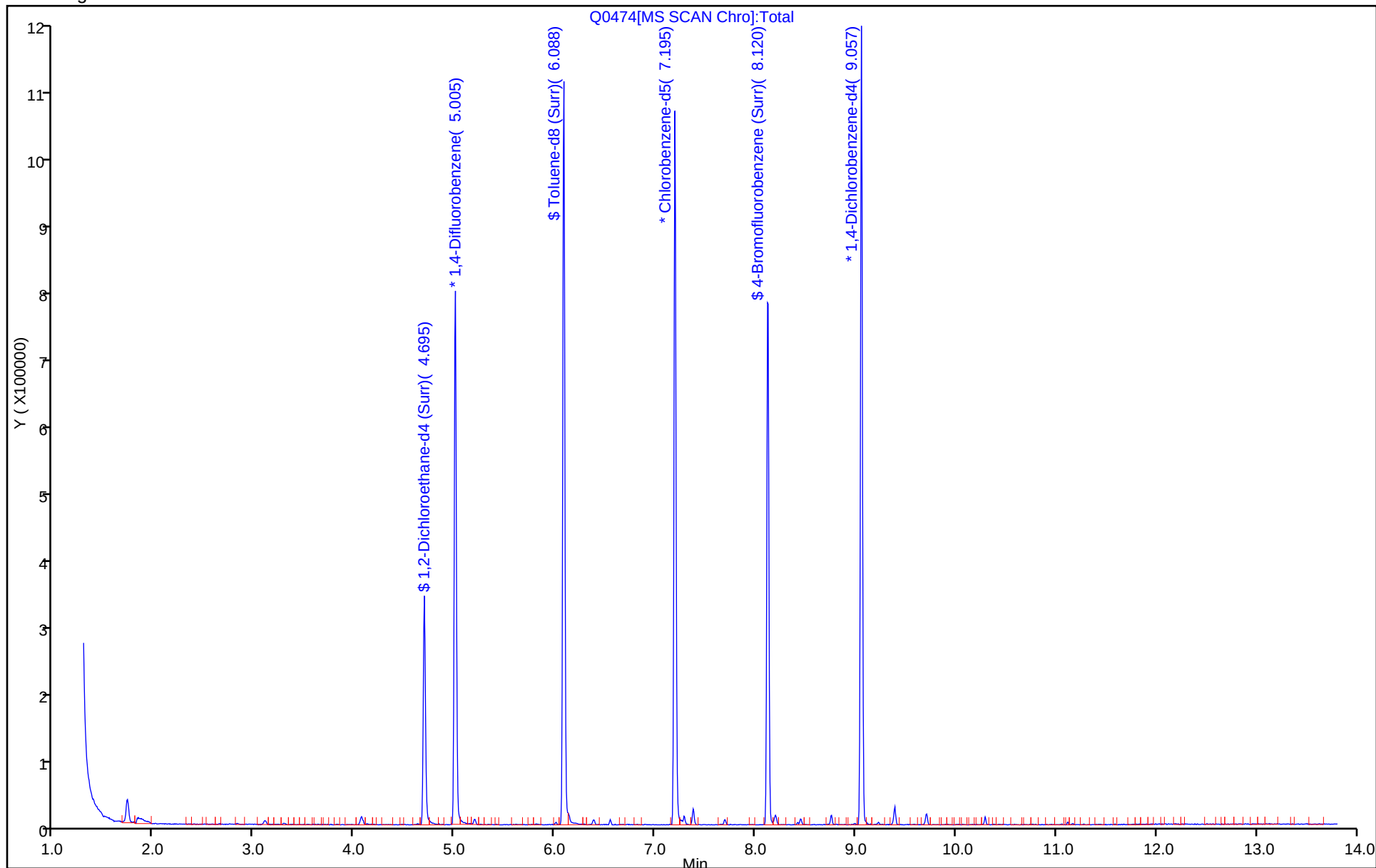
Date: 13-Sep-2013 23:35:54

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.005	5.004	0.001	95	492733	25.0	
* 2 Chlorobenzene-d5	82	7.195	7.194	0.001	87	254303	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.057	9.056	0.001	96	253448	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.695	4.694	0.001	97	93039	25.0	
\$ 5 Toluene-d8 (Surr)	98	6.088	6.087	0.001	94	592424	23.8	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.126	8.125	0.001	90	185822	22.4	
57 Benzene	78		4.718					
87 Chlorobenzene	112		7.219					
88 Ethylbenzene	91		7.286					
90 m-Xylene & p-Xylene	106		7.377					
91 o-Xylene	106		7.693					
113 1,4-Dichlorobenzene	146		9.080					
116 1,2-Dichlorobenzene	146		9.384					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0474.D
Injection Date: 13-Sep-2013 18:52:30 Limit Group: MV - 8260B ICAL
Client ID: MW-2-090913 Instrument ID: HP5973Q
Lims Batch ID: 138961 Lims Sample ID: 13
Operator ID: TRB Purge Vol: 5.000 mL
Column Type: ZB-624 Column Dia: 0.25 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG No.: _____
 Client Sample ID: FDUP-090913 Lab Sample ID: 480-45418-7
 Matrix: Water Lab File ID: Q0475.D
 Analysis Method: 8260B Date Collected: 09/09/2013 10:15
 Sample wt/vol: 5(mL) Date Analyzed: 09/13/2013 19:19
 Soil Aliquot Vol: _____ Dilution Factor: 4
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 138961 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	ND		4.0	3.2
106-46-7	1,4-Dichlorobenzene	ND		4.0	3.4
71-43-2	Benzene	ND		4.0	1.6
108-90-7	Chlorobenzene	18		4.0	3.0
100-41-4	Ethylbenzene	ND		4.0	3.0
1330-20-7	Xylenes, Total	ND		8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		66-137
2037-26-5	Toluene-d8 (Surr)	94		71-126
460-00-4	4-Bromofluorobenzene (Surr)	91		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0475.D
 Lims ID: 480-45418-D-7 Client ID: FDUP-090913
 Inject. Date: 13-Sep-2013 19:19:30 Dil. Factor: 4.0000
 Sample Type: Client
 Sample ID: 480-45418-D-7
 Misc. Info.: 480-0025207-014
 Operator: TRB Instrument ID: HP5973Q
 Purge Vol: 5.000 mL ALS Bottle#: 14
 Lims Batch ID: 138961 Lims Sample ID: 14
 Detector: MS SCAN
 Method: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q-8260.m
 Last Update: 13-Sep-2013 21:15:31 Calib Date: 25-Jul-2013 15:31:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK025

First Level Reviewer: BrandtT

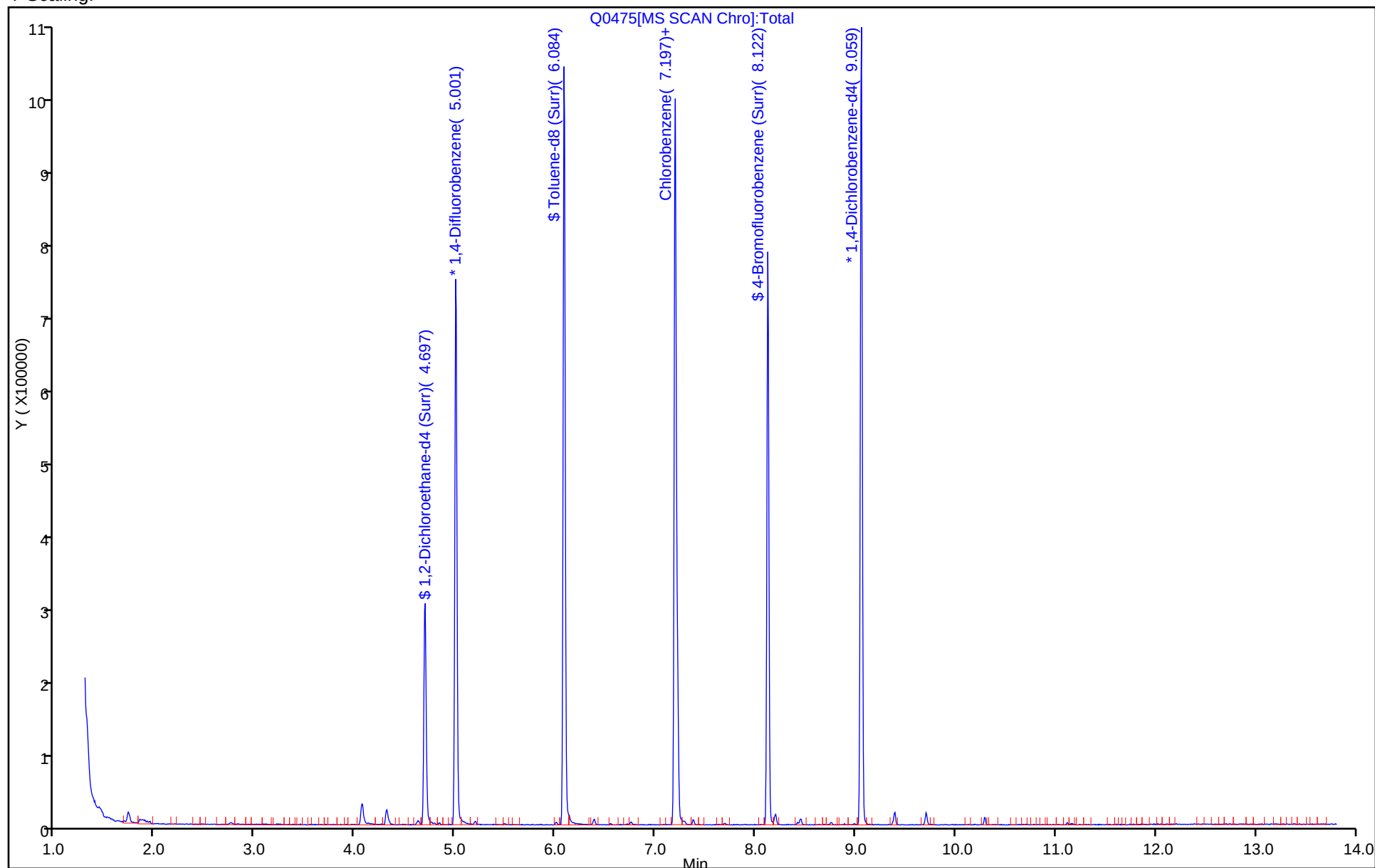
Date: 13-Sep-2013 23:35:58

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.001	5.004	-0.003	95	501059	25.0	
* 2 Chlorobenzene-d5	82	7.197	7.194	0.003	85	254548	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.059	9.056	0.003	96	250418	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.697	4.694	0.003	89	90583	23.9	
\$ 5 Toluene-d8 (Surr)	98	6.084	6.087	-0.003	84	588875	23.6	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.122	8.125	-0.003	89	188543	22.7	
57 Benzene	78		4.718					
87 Chlorobenzene	112	7.222	7.219	0.003	93	94646	4.40	
88 Ethylbenzene	91		7.286					
90 m-Xylene & p-Xylene	106		7.377					
91 o-Xylene	106		7.693					
113 1,4-Dichlorobenzene	146		9.080					
116 1,2-Dichlorobenzene	146		9.384					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0475.D
Injection Date: 13-Sep-2013 19:19:30 Limit Group: MV - 8260B ICAL
Client ID: FDUP-090913 Instrument ID: HP5973Q
Lims Batch ID: 138961 Lims Sample ID: 14
Operator ID: TRB Purge Vol: 5.000 mL
Column Type: ZB-624 Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0475.D

Injection Date: 13-Sep-2013 19:19:30

Limit Group: MV - 8260B ICAL

Client ID: FDUP-090913

Instrument ID: HP5973Q

Lims Batch ID: 138961

Lims Sample ID: 14

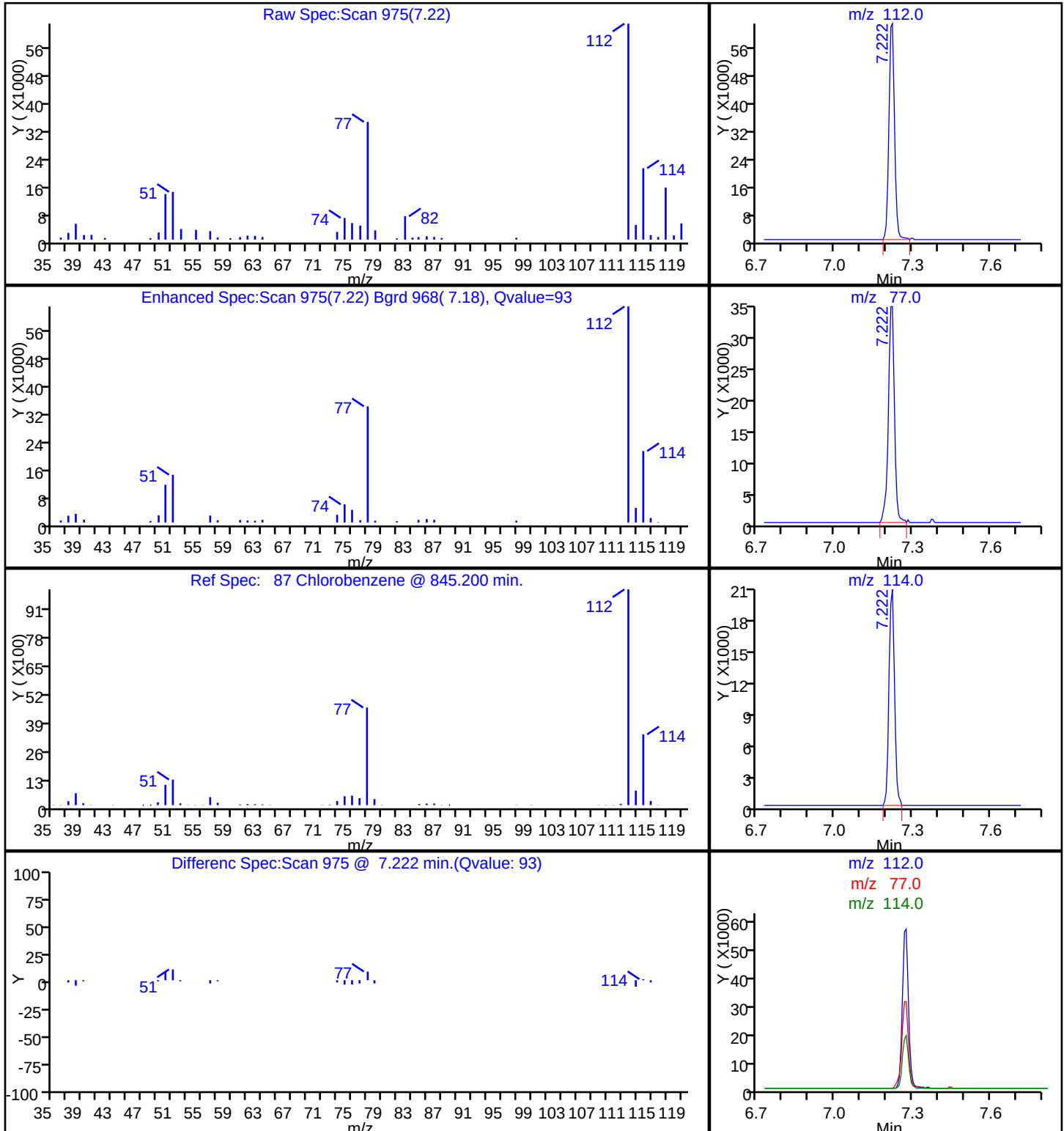
Operator ID: TRB

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

87 Chlorobenzene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK 090913 Lab Sample ID: 480-45418-8
 Matrix: Water Lab File ID: Q0476.D
 Analysis Method: 8260B Date Collected: 09/09/2013 12:15
 Sample wt/vol: 5(mL) Date Analyzed: 09/13/2013 19:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 138961 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
71-43-2	Benzene	ND		1.0	0.41
108-90-7	Chlorobenzene	ND		1.0	0.75
100-41-4	Ethylbenzene	ND		1.0	0.74
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		66-137
2037-26-5	Toluene-d8 (Surr)	94		71-126
460-00-4	4-Bromofluorobenzene (Surr)	89		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0476.D
 Lims ID: 480-45418-A-8 Client ID: TRIP BLANK 090913
 Inject. Date: 13-Sep-2013 19:47:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-45418-A-8
 Misc. Info.: 480-0025207-015
 Operator: TRB Instrument ID: HP5973Q
 Purge Vol: 5.000 mL ALS Bottle#: 15
 Lims Batch ID: 138961 Lims Sample ID: 15
 Detector: MS SCAN

Method: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q-8260.m
 Last Update: 13-Sep-2013 21:15:31 Calib Date: 25-Jul-2013 15:31:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK025

First Level Reviewer: BrandtT

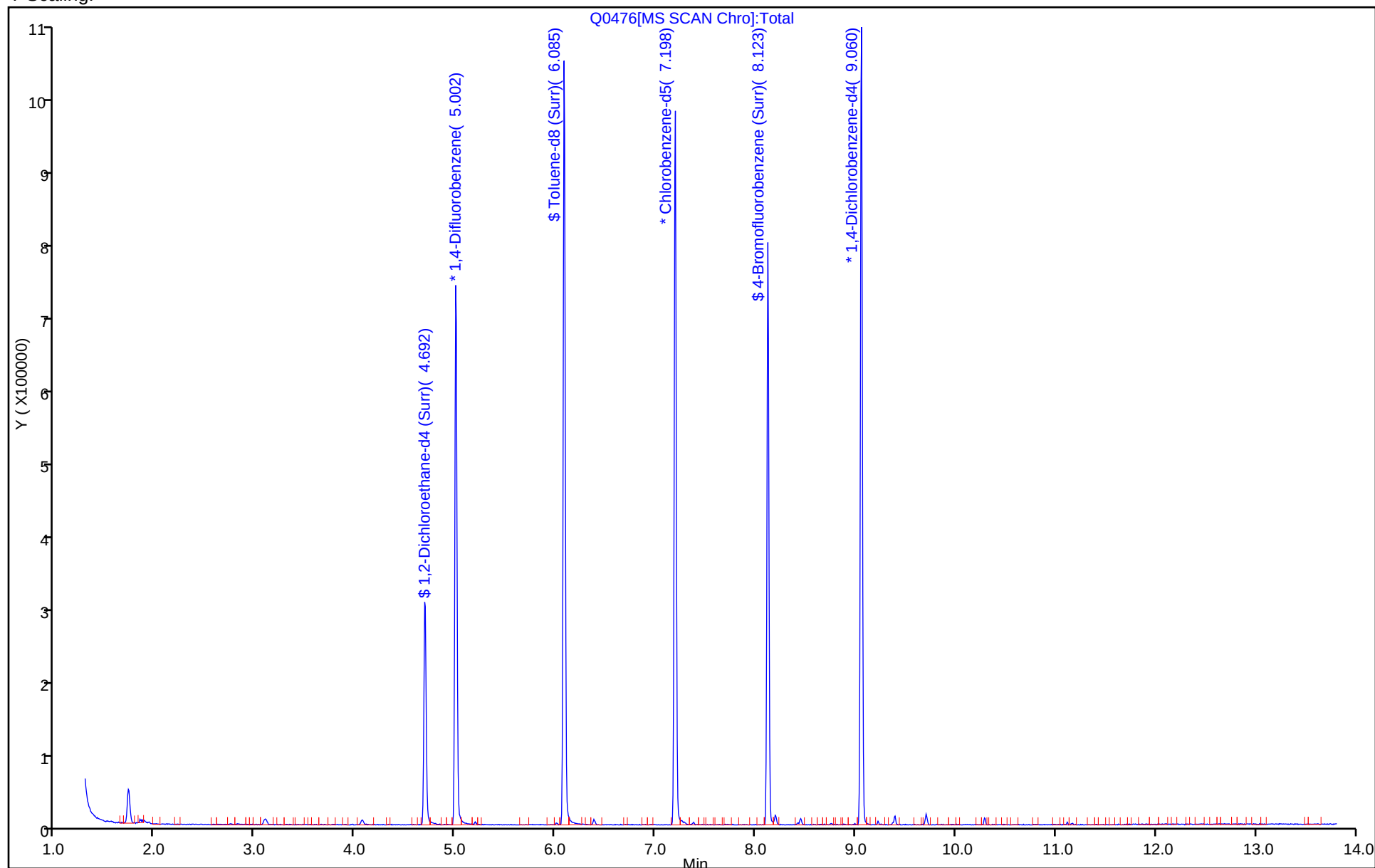
Date: 13-Sep-2013 23:36:01

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.002	5.004	-0.002	95	480229	25.0	
* 2 Chlorobenzene-d5	82	7.198	7.194	0.004	87	251462	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.060	9.056	0.004	96	244778	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.698	4.694	0.004	89	88386	24.3	
\$ 5 Toluene-d8 (Surr)	98	6.085	6.087	-0.002	93	579491	23.5	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.123	8.125	-0.002	88	183160	22.3	
57 Benzene	78		4.718					
87 Chlorobenzene	112		7.219					
88 Ethylbenzene	91		7.286					
90 m-Xylene & p-Xylene	106		7.377					
91 o-Xylene	106		7.693					
113 1,4-Dichlorobenzene	146		9.080					
116 1,2-Dichlorobenzene	146		9.384					
S 124 Xylenes, Total	1		30.000					

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0476.D
Injection Date: 13-Sep-2013 19:47:30 Limit Group: MV - 8260B ICAL
Client ID: TRIP BLANK 090913 Instrument ID: HP5973Q
Lims Batch ID: 138961 Lims Sample ID: 15
Operator ID: TRB Purge Vol: 5.000 mL
Column Type: ZB-624 Column Dia: 0.25 mm

Y Scaling:



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1 Analy Batch No.: 130641

SDG No.: _____

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2013 13:13 Calibration End Date: 07/25/2013 15:31 Calibration ID: 14270

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-130641/2	Q9494.D
Level 2	IC 480-130641/3	Q9495.D
Level 3	IC 480-130641/4	Q9496.D
Level 4	ICIS 480-130641/5	Q9497.D
Level 5	IC 480-130641/6	Q9498.D
Level 6	IC 480-130641/7	Q9499.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.4493 0.3857	0.3989	0.4104	0.3852	0.3825	Ave		0.4020				6.3		15.0			
Chloromethane	0.4560 0.4013	0.4141	0.4223	0.4101	0.3996	Ave		0.4172			0.1000	5.0		15.0			
Vinyl chloride	0.4030 0.3757	0.3758	0.3882	0.3789	0.3819	Ave		0.3839				2.7		30.0			
Bromomethane	0.1812 0.1089	0.0862	0.0917	0.0863	0.0936	Qua	0.0903	0.0752	0.0003						1.0000		0.9900
Chloroethane	0.1093 0.1052	0.1089	0.1138	0.1118	0.0988	Ave		0.1080				4.9		15.0			
Trichlorofluoromethane	0.5265 0.4944	0.4868	0.5003	0.4973	0.4733	Ave		0.4964				3.6		15.0			
Acrolein	0.0376 0.0398	0.0368	0.0378	0.0365	0.0385	Ave		0.0378				3.2		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3297 0.2830	0.3025	0.3014	0.2953	0.2814	Ave		0.2989				5.9		15.0			
1,1-Dichloroethene	0.3408 0.2846	0.3075	0.3100	0.2993	0.2889	Ave		0.3052				6.6		30.0			
Acetone	0.1452 0.1115	0.1155	0.1185	0.1170	0.1149	Ave		0.1204				10.0		15.0			
Iodomethane	0.0683 0.3015	0.1046	0.1505	0.2028	0.2603	Qua	-0.536	0.2187	0.0009						0.9990		0.9900
Carbon disulfide	0.9821 0.9116	0.9509	0.9468	0.9424	0.9130	Ave		0.9411				2.8		15.0			
Acetonitrile	0.0312 0.0227	0.0248	0.0248	0.0240	0.0237	Ave		0.0252				12.0		15.0			
Methyl acetate	0.3538 0.3300	0.3337	0.3435	0.3307	0.3270	Ave		0.3364				3.0		15.0			
Methylene Chloride	0.3959 0.3274	0.3407	0.3491	0.3437	0.3367	Ave		0.3489				6.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1 Analy Batch No.: 130641

SDG No.: _____

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2013 13:13 Calibration End Date: 07/25/2013 15:31 Calibration ID: 14270

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methyl tert-butyl ether	1.1572 1.0721	1.1283	1.1161	1.1375	1.0740	Ave		1.1142				3.1		15.0			
trans-1,2-Dichloroethene	0.3774 0.3125	0.3400	0.3490	0.3329	0.3188	Ave		0.3384				6.9		15.0			
Acrylonitrile	0.1597 0.1388	0.1472	0.1488	0.1509	0.1423	Ave		0.1480				4.9		15.0			
1,1-Dichloroethane	0.7506 0.6424	0.6723	0.6686	0.6693	0.6524	Ave		0.6759			0.1000	5.7		15.0			
Vinyl acetate	0.7501 0.6730	0.7312	0.7440	0.7476	0.7176	Ave		0.7273				4.0		15.0			
2,2-Dichloropropane	0.6278 0.5064	0.5512	0.5606	0.5330	0.5126	Ave		0.5486				8.0		15.0			
cis-1,2-Dichloroethene	0.4213 0.3407	0.3903	0.3803	0.3779	0.3560	Ave		0.3777				7.4		15.0			
2-Butanone (MEK)	0.2110 0.1650	0.1684	0.1745	0.1741	0.1693	Ave		0.1771				9.6		15.0			
Bromochloromethane	0.2167 0.1912	0.2053	0.2059	0.2023	0.2001	Ave		0.2036				4.1		15.0			
Tetrahydrofuran	0.1263 0.1047	0.1073	0.1150	0.1120	0.1090	Ave		0.1124				6.9		15.0			
Chloroform	0.7063 0.5513	0.6116	0.6095	0.5963	0.5696	Ave		0.6074				8.9		30.0			
1,1,1-Trichloroethane	0.5916 0.5200	0.5382	0.5593	0.5455	0.5264	Ave		0.5468				4.7		15.0			
Cyclohexane	0.7055 0.5730	0.6163	0.6154	0.6008	0.5749	Ave		0.6143				7.9		15.0			
Carbon tetrachloride	0.5376 0.4653	0.4916	0.4931	0.4857	0.4629	Ave		0.4894				5.5		15.0			
1,1-Dichloropropene	0.5249 0.4312	0.4738	0.4828	0.4667	0.4400	Ave		0.4699				7.1		15.0			
Benzene	1.4752 1.2330	1.3437	1.3443	1.3292	1.2728	Ave		1.3330				6.2		15.0			
1,2-Dichloroethane	0.6059 0.5276	0.5687	0.5702	0.5656	0.5419	Ave		0.5633				4.8		15.0			
Trichloroethene	0.4333 0.3446	0.3694	0.3716	0.3563	0.3443	Ave		0.3699				9.0		15.0			
Methylcyclohexane	0.6405 0.5564	0.6077	0.5876	0.5779	0.5546	Ave		0.5874				5.6		15.0			
1,2-Dichloropropane	0.4457 0.3583	0.3843	0.3896	0.3797	0.3694	Ave		0.3878				7.9		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1 Analy Batch No.: 130641

SDG No.: _____

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2013 13:13 Calibration End Date: 07/25/2013 15:31 Calibration ID: 14270

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dibromomethane	0.2534 0.2293	0.2396	0.2400	0.2396	0.2333	Ave		0.2392				3.4		15.0			
Bromodichloromethane	0.5179 0.4692	0.4782	0.4927	0.4885	0.4732	Ave		0.4866				3.6		15.0			
2-Chloroethyl vinyl ether	0.2911 0.2558	0.2777	0.2829	0.2790	0.2679	Ave		0.2757				4.5		15.0			
cis-1,3-Dichloropropene	0.6511 0.5785	0.6137	0.6254	0.6160	0.5927	Ave		0.6129				4.1		15.0			
4-Methyl-2-pentanone (MIBK)	0.8567 0.7030	0.7469	0.7708	0.7647	0.7436	Ave		0.7643				6.7		15.0			
Toluene	2.0062 1.7874	1.7445	1.8320	1.7838	1.7662	Ave		1.8200				5.3		30.0			
trans-1,3-Dichloropropene	1.2331 1.2440	1.1726	1.2303	1.2188	1.2098	Ave		1.2181				2.1		15.0			
Ethyl methacrylate	1.1246 1.1634	1.0731	1.1570	1.1515	1.1579	Ave		1.1379				3.0		15.0			
1,1,2-Trichloroethane	0.6196 0.5714	0.5806	0.5872	0.5788	0.5656	Ave		0.5839				3.3		15.0			
Tetrachloroethene	0.9087 0.8175	0.8048	0.8463	0.8247	0.8074	Ave		0.8349				4.7		15.0			
1,3-Dichloropropane	1.3302 1.1968	1.2051	1.2319	1.2187	1.1995	Ave		1.2304				4.1		15.0			
2-Hexanone	0.5653 0.5059	0.5501	0.5529	0.5474	0.5318	Ave		0.5422				3.8		15.0			
Dibromochloromethane	0.8418 0.8982	0.7946	0.8394	0.8576	0.8731	Ave		0.8508				4.1		15.0			
1,2-Dibromoethane	0.8202 0.7874	0.7536	0.7752	0.7832	0.7704	Ave		0.7817				2.8		15.0			
Chlorobenzene	2.2571 2.0674	2.0919	2.1223	2.0849	2.0618	Ave		2.1142			0.3000	3.5		15.0			
1,1,1,2-Tetrachloroethane	0.8018 0.7602	0.7502	0.7853	0.7651	0.7560	Ave		0.7698				2.6		15.0			
Ethylbenzene	3.9131 3.1328	3.3818	3.5321	3.3436	3.2107	Ave		3.4190				8.2		30.0			
m,p-Xylene	1.5262 1.3127	1.3582	1.4112	1.3501	1.3090	Ave		1.3779				5.9		15.0			
o-Xylene	1.5164 1.3812	1.3629	1.4351	1.3801	1.3686	Ave		1.4074				4.2		15.0			
Styrene	2.4527 2.2891	2.3282	2.3810	2.3239	2.3089	Ave		2.3473				2.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1 Analy Batch No.: 130641

SDG No.: _____

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2013 13:13 Calibration End Date: 07/25/2013 15:31 Calibration ID: 14270

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Bromoform	0.5764 0.6492	0.5407	0.5556	0.5955	0.6163	Ave		0.5889			0.1000	6.8		15.0			
Isopropylbenzene	3.6572 3.2450	3.3690	3.4564	3.3656	3.2531	Ave		3.3910				4.5		15.0			
Bromobenzene	0.9836 0.9018	0.9168	0.9295	0.9237	0.8961	Ave		0.9253				3.4		15.0			
1,1,2,2-Tetrachloroethane	1.0997 0.8971	0.9614	0.9703	0.9517	0.9274	Ave		0.9679			0.3000	7.2		15.0			
1,2,3-Trichloropropane	0.3200 0.2747	0.3006	0.3025	0.2930	0.2844	Ave		0.2958				5.3		15.0			
trans-1,4-Dichloro-2-butene	0.2161 0.2029	0.2190	0.2282	0.2329	0.2239	Ave		0.2205				4.8		15.0			
N-Propylbenzene	4.4837 3.5980	4.0908	4.1588	3.8959	3.7020	Ave		3.9882				8.1		15.0			
2-Chlorotoluene	0.9044 0.7884	0.8391	0.8476	0.8084	0.7961	Ave		0.8307				5.2		15.0			
1,3,5-Trimethylbenzene	3.0647 2.6129	2.7826	2.8938	2.7609	2.6838	Ave		2.7998				5.7		15.0			
4-Chlorotoluene	0.9252 0.8205	0.8698	0.8864	0.8545	0.8325	Ave		0.8648				4.4		15.0			
tert-Butylbenzene	0.7075 0.6313	0.6491	0.6576	0.6425	0.6229	Ave		0.6518				4.6		15.0			
1,2,4-Trimethylbenzene	3.2504 2.6476	2.8433	2.8972	2.8264	2.7118	Ave		2.8628				7.4		15.0			
sec-Butylbenzene	3.9110 3.4287	3.5137	3.6269	3.5339	3.4342	Ave		3.5747				5.0		15.0			
1,3-Dichlorobenzene	1.8152 1.6199	1.7109	1.7224	1.6541	1.6160	Ave		1.6897				4.5		15.0			
4-Isopropyltoluene	3.3360 2.8807	3.0385	3.1423	2.9711	2.8734	Ave		3.0403				5.8		15.0			
1,4-Dichlorobenzene	1.8460 1.6501	1.7046	1.7460	1.6734	1.6587	Ave		1.7131				4.3		15.0			
n-Butylbenzene	2.8682 2.4913	2.5982	2.6667	2.5532	2.4846	Ave		2.6104				5.5		15.0			
1,2-Dichlorobenzene	1.7510 1.5745	1.6254	1.6762	1.6335	1.5946	Ave		1.6425				3.9		15.0			
1,2-Dibromo-3-Chloropropane	0.1843 0.1821	0.1614	0.1731	0.1746	0.1787	Ave		0.1757				4.7		15.0			
1,2,4-Trichlorobenzene	0.9783 0.9523	0.9237	0.9597	0.9530	0.9311	Ave		0.9497				2.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1 Analy Batch No.: 130641

SDG No.: _____

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2013 13:13 Calibration End Date: 07/25/2013 15:31 Calibration ID: 14270

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexachlorobutadiene	0.4590 0.4126	0.4032	0.4337	0.4151	0.4010	Ave		0.4208				5.2		15.0			
Naphthalene	1.9663 1.9241	1.8024	1.8450	1.9054	1.8639	Ave		1.8845				3.1		15.0			
1,2,3-Trichlorobenzene	0.7254 0.6614	0.6209	0.6402	0.6515	0.6289	Ave		0.6547				5.7		15.0			
1,2-Dichloroethane-d4 (Surr)	0.1928 0.1836	0.1914	0.1916	0.1900	0.1850	Ave		0.1891				2.0		15.0			
Toluene-d8 (Surr)	2.4205 2.5216	2.4292	2.4190	2.4528	2.4618	Ave		2.4508				1.6		15.0			
4-Bromofluorobenzene (Surr)	0.7932 0.8466	0.7900	0.8133	0.8270	0.8313	Ave		0.8169				2.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1 Analy Batch No.: 130641

SDG No.: _____

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2013 13:13 Calibration End Date: 07/25/2013 15:31 Calibration ID: 14270

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-130641/2	Q9494.D
Level 2	IC 480-130641/3	Q9495.D
Level 3	IC 480-130641/4	Q9496.D
Level 4	ICIS 480-130641/5	Q9497.D
Level 5	IC 480-130641/6	Q9498.D
Level 6	IC 480-130641/7	Q9499.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	DFB	Ave	11405 931831	50159	102965	238813	468239	1.00 100	5.00	10.0	25.0	50.0
Chloromethane	DFB	Ave	11574 969581	52070	105966	254271	489185	1.00 100	5.00	10.0	25.0	50.0
Vinyl chloride	DFB	Ave	10230 907800	47251	97411	234953	467439	1.00 100	5.00	10.0	25.0	50.0
Bromomethane	DFB	Qua	4599 263198	10840	22998	53481	114555	1.00 100	5.00	10.0	25.0	50.0
Chloroethane	DFB	Ave	2775 254214	13694	28551	69312	120940	1.00 100	5.00	10.0	25.0	50.0
Trichlorofluoromethane	DFB	Ave	13365 1194533	61220	125527	308371	579295	1.00 100	5.00	10.0	25.0	50.0
Acrolein	DFB	Ave	19079 1922067	92565	189623	452482	942263	20.0 2000	100	200	500	1000
1,1,2-Trichloro-1,2,2-trifluoroethane	DFB	Ave	8368 683746	38041	75632	183068	344488	1.00 100	5.00	10.0	25.0	50.0
1,1-Dichloroethene	DFB	Ave	8650 687544	38668	77784	185601	353653	1.00 100	5.00	10.0	25.0	50.0
Acetone	DFB	Ave	18434 1346514	72639	148665	362755	703406	5.00 500	25.0	50.0	125	250
Iodomethane	DFB	Qua	1734 728441	13153	37749	125741	318572	1.00 100	5.00	10.0	25.0	50.0
Carbon disulfide	DFB	Ave	24930 2202521	119574	237546	584313	1117539	1.00 100	5.00	10.0	25.0	50.0
Acetonitrile	DFB	Ave	31693 2191902	124658	249368	596270	1158336	40.0 4000	200	400	1000	2000
Methyl acetate	DFB	Ave	8980 797349	41964	86178	205029	400256	1.00 100	5.00	10.0	25.0	50.0
Methylene Chloride	DFB	Ave	10050 791123	42840	87595	213125	412181	1.00 100	5.00	10.0	25.0	50.0
Methyl tert-butyl ether	DFB	Ave	29373 2590255	141886	280023	705294	1314668	1.00 100	5.00	10.0	25.0	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1 Analy Batch No.: 130641

SDG No.: _____

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2013 13:13 Calibration End Date: 07/25/2013 15:31 Calibration ID: 14270

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
trans-1,2-Dichloroethene	DFB	Ave	9580 754963	42754	87564	206437	390200	1.00 100	5.00	10.0	25.0	50.0
Acrylonitrile	DFB	Ave	20273 1677042	92572	186624	467695	871089	5.00 500	25.0	50.0	125	250
1,1-Dichloroethane	DFB	Ave	19053 1552085	84546	167759	415015	798580	1.00 100	5.00	10.0	25.0	50.0
Vinyl acetate	DFB	Ave	95206 8130521	459707	933357	2317727	4392175	5.00 500	25.0	50.0	125	250
2,2-Dichloropropane	DFB	Ave	15936 1223595	69314	140664	330478	627432	1.00 100	5.00	10.0	25.0	50.0
cis-1,2-Dichloroethene	DFB	Ave	10693 823257	49076	95420	234316	435745	1.00 100	5.00	10.0	25.0	50.0
2-Butanone (MEK)	DFB	Ave	26778 1993828	105894	218911	539892	1036138	5.00 500	25.0	50.0	125	250
Bromochloromethane	DFB	Ave	5500 461886	25816	51671	125439	244945	1.00 100	5.00	10.0	25.0	50.0
Tetrahydrofuran	DFB	Ave	16032 1264891	67444	144286	347350	667193	5.00 500	25.0	50.0	125	250
Chloroform	DFB	Ave	17928 1332142	76912	152916	369757	697232	1.00 100	5.00	10.0	25.0	50.0
1,1,1-Trichloroethane	DFB	Ave	15017 1256500	67674	140325	338201	644368	1.00 100	5.00	10.0	25.0	50.0
Cyclohexane	DFB	Ave	17907 1384532	77500	154417	372505	703747	1.00 100	5.00	10.0	25.0	50.0
Carbon tetrachloride	DFB	Ave	13645 1124153	61820	123728	301170	566627	1.00 100	5.00	10.0	25.0	50.0
1,1-Dichloropropene	DFB	Ave	13325 1041954	59577	121127	289395	538583	1.00 100	5.00	10.0	25.0	50.0
Benzene	DFB	Ave	37445 2979200	168972	337282	824146	1558013	1.00 100	5.00	10.0	25.0	50.0
1,2-Dichloroethane	DFB	Ave	15381 1274705	71516	143061	350689	663305	1.00 100	5.00	10.0	25.0	50.0
Trichloroethene	DFB	Ave	10998 832649	46448	93241	220913	421479	1.00 100	5.00	10.0	25.0	50.0
Methylcyclohexane	DFB	Ave	16257 1344262	76422	147419	358290	678859	1.00 100	5.00	10.0	25.0	50.0
1,2-Dichloropropane	DFB	Ave	11314 865740	48326	97754	235450	452165	1.00 100	5.00	10.0	25.0	50.0
Dibromomethane	DFB	Ave	6432 554120	30126	60213	148536	285624	1.00 100	5.00	10.0	25.0	50.0
Bromodichloromethane	DFB	Ave	13147 1133705	60137	123626	302911	579189	1.00 100	5.00	10.0	25.0	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1 Analy Batch No.: 130641

SDG No.: _____

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2013 13:13 Calibration End Date: 07/25/2013 15:31 Calibration ID: 14270

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2-Chloroethyl vinyl ether	DFB	Ave	36949 3089674	174614	354874	865007	1639540	5.00 500	25.0	50.0	125	250
cis-1,3-Dichloropropene	DFB	Ave	16527 1397704	77175	156904	381943	725443	1.00 100	5.00	10.0	25.0	50.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	54633 3929841	236316	475086	1158248	2186670	5.00 500	25.0	50.0	125	250
Toluene	CBZ	Ave	25588 1998475	110395	225841	540393	1038817	1.00 100	5.00	10.0	25.0	50.0
trans-1,3-Dichloropropene	CBZ	Ave	15727 1390881	74203	151664	369231	711556	1.00 100	5.00	10.0	25.0	50.0
Ethyl methacrylate	CBZ	Ave	14343 1300843	67910	142635	348834	681022	1.00 100	5.00	10.0	25.0	50.0
1,1,2-Trichloroethane	CBZ	Ave	7903 638886	36745	72389	175346	332661	1.00 100	5.00	10.0	25.0	50.0
Tetrachloroethene	CBZ	Ave	11590 914033	50932	104325	249834	474907	1.00 100	5.00	10.0	25.0	50.0
1,3-Dichloropropane	CBZ	Ave	16966 1338128	76262	151863	369202	705476	1.00 100	5.00	10.0	25.0	50.0
2-Hexanone	CBZ	Ave	36051 2828489	174058	340790	829164	1563784	5.00 500	25.0	50.0	125	250
Dibromochloromethane	CBZ	Ave	10736 1004239	50284	103477	259811	513536	1.00 100	5.00	10.0	25.0	50.0
1,2-Dibromoethane	CBZ	Ave	10461 880334	47690	95563	237274	453105	1.00 100	5.00	10.0	25.0	50.0
Chlorobenzene	CBZ	Ave	28788 2311546	132381	261631	631604	1212699	1.00 100	5.00	10.0	25.0	50.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	10227 849985	47473	96807	231776	444624	1.00 100	5.00	10.0	25.0	50.0
Ethylbenzene	CBZ	Ave	49909 3502789	214009	435424	1012910	1888437	1.00 100	5.00	10.0	25.0	50.0
m,p-Xylene	CBZ	Ave	38931 2935458	171899	347932	818008	1539793	2.00 200	10.0	20.0	50.0	100
o-Xylene	CBZ	Ave	19341 1544343	86251	176914	418097	804935	1.00 100	5.00	10.0	25.0	50.0
Styrene	CBZ	Ave	31282 2559462	147332	293514	703995	1358002	1.00 100	5.00	10.0	25.0	50.0
Bromoform	CBZ	Ave	7351 725876	34220	68486	180411	362483	1.00 100	5.00	10.0	25.0	50.0
Isopropylbenzene	DCB	Ave	48472 3847555	219944	446793	1068653	2016423	1.00 100	5.00	10.0	25.0	50.0
Bromobenzene	DCB	Ave	13037 1069275	59857	120155	293304	555461	1.00 100	5.00	10.0	25.0	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1 Analy Batch No.: 130641

SDG No.: _____

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2013 13:13 Calibration End Date: 07/25/2013 15:31 Calibration ID: 14270

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,1,2,2-Tetrachloroethane	DCB	Ave	14576 1063708	62764	125419	302173	574840	1.00 100	5.00	10.0	25.0	50.0
1,2,3-Trichloropropane	DCB	Ave	4241 325677	19625	39102	93021	176259	1.00 100	5.00	10.0	25.0	50.0
trans-1,4-Dichloro-2-butene	DCB	Ave	14324 1202761	71496	147512	369828	694053	5.00 500	25.0	50.0	125	250
N-Propylbenzene	DCB	Ave	59427 4266007	267068	537588	1237032	2294652	1.00 100	5.00	10.0	25.0	50.0
2-Chlorotoluene	DCB	Ave	11987 934815	54779	109570	256692	493437	1.00 100	5.00	10.0	25.0	50.0
1,3,5-Trimethylbenzene	DCB	Ave	40619 3098093	181663	374060	876650	1663552	1.00 100	5.00	10.0	25.0	50.0
4-Chlorotoluene	DCB	Ave	12263 972852	56786	114586	271321	515999	1.00 100	5.00	10.0	25.0	50.0
tert-Butylbenzene	DCB	Ave	9377 748549	42374	85009	204004	386088	1.00 100	5.00	10.0	25.0	50.0
1,2,4-Trimethylbenzene	DCB	Ave	43081 3139188	185625	374499	897431	1680906	1.00 100	5.00	10.0	25.0	50.0
sec-Butylbenzene	DCB	Ave	51836 4065365	229397	468829	1122099	2128661	1.00 100	5.00	10.0	25.0	50.0
1,3-Dichlorobenzene	DCB	Ave	24058 1920686	111699	222642	525216	1001656	1.00 100	5.00	10.0	25.0	50.0
4-Isopropyltoluene	DCB	Ave	44215 3415626	198369	406184	943401	1781033	1.00 100	5.00	10.0	25.0	50.0
1,4-Dichlorobenzene	DCB	Ave	24467 1956431	111284	225697	531328	1028128	1.00 100	5.00	10.0	25.0	50.0
n-Butylbenzene	DCB	Ave	38015 2953872	169623	344713	810702	1540048	1.00 100	5.00	10.0	25.0	50.0
1,2-Dichlorobenzene	DCB	Ave	23208 1866862	106117	216672	518662	988391	1.00 100	5.00	10.0	25.0	50.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	2443 215872	10534	22372	55455	110736	1.00 100	5.00	10.0	25.0	50.0
1,2,4-Trichlorobenzene	DCB	Ave	12966 1129113	60306	124051	302611	577155	1.00 100	5.00	10.0	25.0	50.0
Hexachlorobutadiene	DCB	Ave	6083 489263	26325	56056	131799	248570	1.00 100	5.00	10.0	25.0	50.0
Naphthalene	DCB	Ave	26062 2281376	117668	238493	604994	1155309	1.00 100	5.00	10.0	25.0	50.0
1,2,3-Trichlorobenzene	DCB	Ave	9614 784171	40538	82758	206869	389796	1.00 100	5.00	10.0	25.0	50.0
1,2-Dichloroethane-d4 (Surr)	DFB	Ave	122358 110874	120341	120212	117827	113250	25.0 25.0	25.0	25.0	25.0	25.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1 Analy Batch No.: 130641

SDG No.: _____

Instrument ID: HP5973Q GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/25/2013 13:13 Calibration End Date: 07/25/2013 15:31 Calibration ID: 14270

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Toluene-d8 (Surr)	CBZ	Ave	771797 704837	768647	745505	743062	723965	25.0 25.0	25.0	25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	252908 236650	249963	250654	250525	244465	25.0 25.0	25.0	25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Qua = Quadratic ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9494.D
 Lims ID: IC Client ID:
 Inject. Date: 25-Jul-2013 13:13:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 1
 Sample ID: IC
 Misc. Info.: 480-0023793-002
 Operator: PJQ Instrument ID: HP5973Q
 Purge Vol: 5.000 mL ALS Bottle#: 24
 Lims Batch ID: 130641 Lims Sample ID: 2
 Sublist: chrom-Q-8260*sub1
 Detector: MS SCAN
 Method: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q-8260.m
 Last Update: 25-Jul-2013 16:48:33 Calib Date: 25-Jul-2013 15:31:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK015

First Level Reviewer: BrandtT

Date: 25-Jul-2013 16:48:33

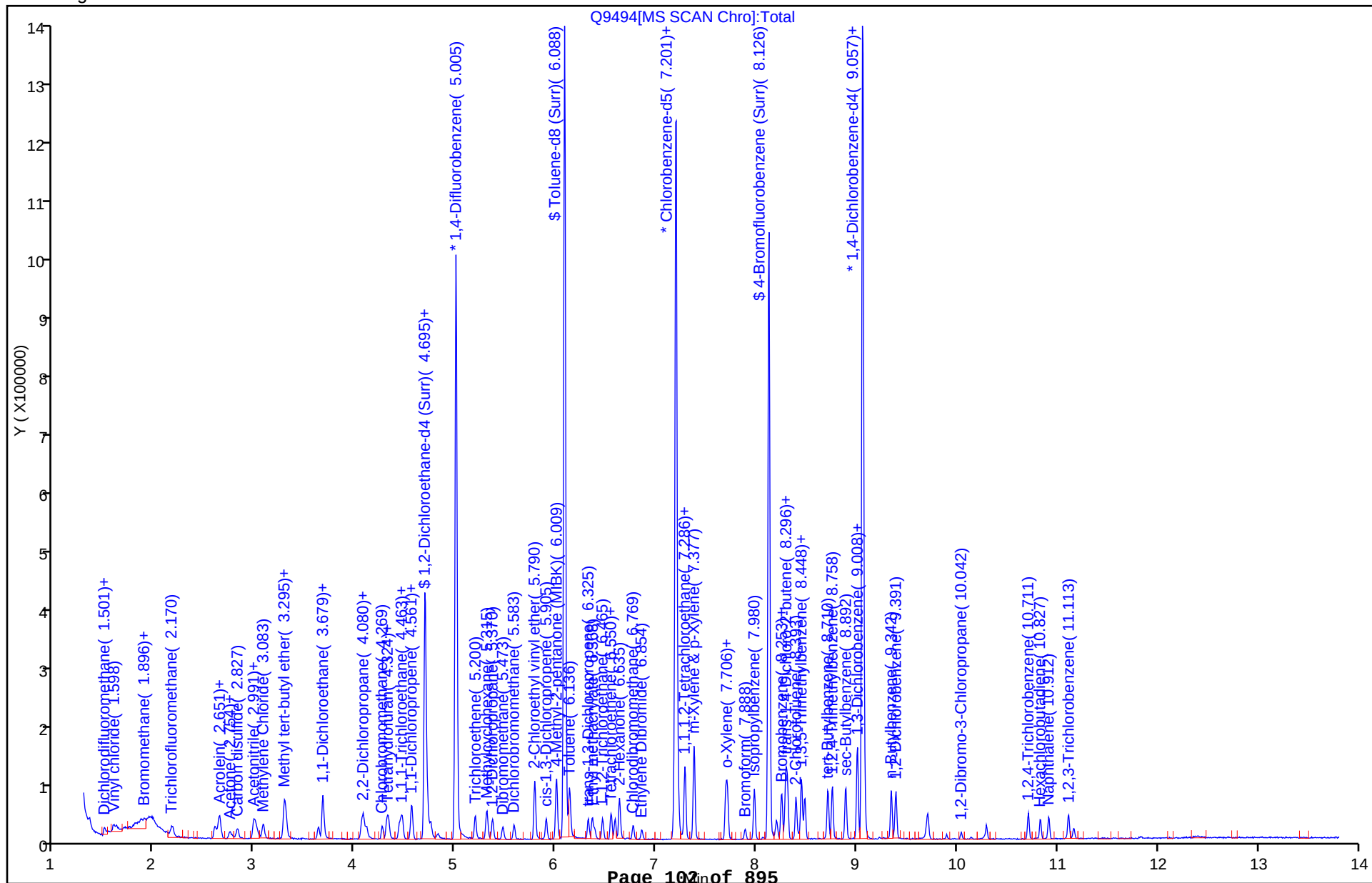
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.005	5.007	-0.002	95	634592	25.0	
* 2 Chlorobenzene-d5	82	7.195	7.197	-0.002	85	318858	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.057	9.059	-0.003	95	331350	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.695	4.697	-0.002	98	122358	25.5	
\$ 5 Toluene-d8 (Surr)	98	6.088	6.090	-0.002	84	771797	24.7	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.126	8.128	-0.002	92	252908	24.3	
10 Dichlorodifluoromethane	85	1.355	1.357	-0.002	73	11405	1.12	
12 Chloromethane	50	1.501	1.503	-0.002	86	11574	1.09	
13 Vinyl chloride	62	1.592	1.594	-0.002	52	10230	1.05	
14 Bromomethane	94	1.866	1.868	-0.002	73	4599	1.20	
15 Chloroethane	64	1.951	1.953	-0.002	24	2775	1.01	
17 Trichlorofluoromethane	101	2.182	2.184	-0.002	79	13365	1.06	
20 Acrolein	56	2.602	2.604	-0.002	87	19079	19.9	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.645	2.647	-0.002	36	8368	1.10	
22 1,1-Dichloroethene	96	2.651	2.653	-0.002	87	8650	1.12	
23 Acetone	43	2.754	2.744	0.010	97	18434	6.03	
25 Iodomethane	142	2.791	2.786	0.005	53	1734	2.73	
26 Carbon disulfide	76	2.827	2.829	-0.002	95	24930	1.04	
29 Acetonitrile	40	2.991	2.987	0.004	100	31693	49.5	
27 Methyl acetate	43	3.022	3.005	0.017	94	8980	1.05	
30 Methylene Chloride	84	3.083	3.085	-0.002	79	10050	1.13	
32 Methyl tert-butyl ether	73	3.295	3.291	0.004	87	29373	1.04	
34 trans-1,2-Dichloroethene	96	3.295	3.291	0.004	61	9580	1.12	
33 Acrylonitrile	53	3.308	3.304	0.004	99	20273	5.40	
39 1,1-Dichloroethane	63	3.636	3.632	0.004	65	19053	1.11	
37 Vinyl acetate	43	3.679	3.675	0.004	96	95206	5.16	
44 2,2-Dichloropropane	77	4.068	4.070	-0.002	83	15936	1.14	
45 cis-1,2-Dichloroethene	96	4.086	4.088	-0.002	76	10693	1.12	
43 2-Butanone (MEK)	43	4.117	4.100	0.017	96	26778	5.96	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
48 Chlorobromomethane	128	4.269	4.271	-0.002	82	5500	1.06	
49 Tetrahydrofuran	42	4.311	4.301	0.010	84	16032	5.62	
50 Chloroform	83	4.336	4.332	0.004	86	17928	1.16	
51 1,1,1-Trichloroethane	97	4.439	4.441	-0.002	78	15017	1.08	
52 Cyclohexane	56	4.470	4.466	0.004	82	17907	1.15	
55 Carbon tetrachloride	117	4.561	4.563	-0.002	76	13645	1.10	
54 1,1-Dichloropropene	75	4.567	4.563	0.004	82	13325	1.12	
57 Benzene	78	4.719	4.721	-0.002	93	37445	1.11	
58 1,2-Dichloroethane	62	4.756	4.751	0.005	77	15381	1.08	
62 Trichloroethene	95	5.200	5.196	0.004	77	10998	1.17	
64 Methylcyclohexane	83	5.315	5.311	0.004	78	16257	1.09	
65 1,2-Dichloropropane	63	5.370	5.372	-0.002	80	11314	1.15	
67 Dibromomethane	93	5.473	5.469	0.004	73	6432	1.06	
68 Dichlorobromomethane	83	5.583	5.585	-0.002	79	13147	1.06	
69 2-Chloroethyl vinyl ether	63	5.790	5.792	-0.002	86	36949	5.28	
72 cis-1,3-Dichloropropene	75	5.905	5.901	0.004	66	16527	1.06	
73 4-Methyl-2-pentanone (MIBK)	43	6.009	6.005	0.004	92	54633	5.60	
74 Toluene	92	6.136	6.138	-0.002	96	25588	1.10	
77 trans-1,3-Dichloropropene	75	6.325	6.321	0.004	80	15727	1.01	
75 Ethyl methacrylate	69	6.362	6.364	-0.002	79	14343	0.9883	
79 1,1,2-Trichloroethane	83	6.465	6.467	-0.002	66	7903	1.06	
81 Tetrachloroethene	166	6.550	6.552	-0.002	88	11590	1.09	
82 1,3-Dichloropropane	76	6.593	6.589	0.004	75	16966	1.08	
80 2-Hexanone	43	6.635	6.631	0.004	90	36051	5.21	
83 Chlorodibromomethane	129	6.769	6.771	-0.002	58	10736	0.9894	
84 Ethylene Dibromide	107	6.860	6.856	0.004	75	10461	1.05	
87 Chlorobenzene	112	7.219	7.221	-0.002	83	28788	1.07	
89 1,1,1,2-Tetrachloroethane	131	7.286	7.282	0.004	78	10227	1.04	
88 Ethylbenzene	91	7.286	7.288	-0.002	94	49909	1.14	
90 m-Xylene & p-Xylene	106	7.377	7.379	-0.002	98	38931	2.22	
91 o-Xylene	106	7.694	7.696	-0.002	93	19341	1.08	
92 Styrene	104	7.712	7.708	0.004	89	31282	1.04	
95 Bromoform	173	7.888	7.891	-0.002	77	7351	0.9786	
94 Isopropylbenzene	105	7.980	7.982	-0.002	87	48472	1.08	
101 Bromobenzene	156	8.247	8.249	-0.002	92	13037	1.06	
97 1,1,2,2-Tetrachloroethane	83	8.253	8.256	-0.003	65	14576	1.14	
100 1,2,3-Trichloropropane	110	8.290	8.292	-0.002	66	4241	1.08	
98 trans-1,4-Dichloro-2-butene	53	8.296	8.292	0.004	80	14324	4.90	
99 N-Propylbenzene	91	8.308	8.310	-0.002	95	59427	1.12	
103 2-Chlorotoluene	126	8.393	8.395	-0.002	93	11987	1.09	
102 1,3,5-Trimethylbenzene	105	8.448	8.450	-0.002	79	40619	1.09	
105 4-Chlorotoluene	126	8.485	8.481	0.004	89	12263	1.07	
106 tert-Butylbenzene	134	8.710	8.712	-0.002	83	9377	1.09	
107 1,2,4-Trimethylbenzene	105	8.758	8.754	0.004	88	43081	1.14	
109 sec-Butylbenzene	105	8.892	8.888	0.004	82	51836	1.09	
111 1,3-Dichlorobenzene	146	9.008	9.004	0.004	67	24058	1.07	
110 4-Isopropyltoluene	119	9.008	9.010	-0.002	92	44215	1.10	
113 1,4-Dichlorobenzene	146	9.081	9.077	0.004	72	24467	1.08	
115 n-Butylbenzene	91	9.342	9.344	-0.002	88	38015	1.10	
116 1,2-Dichlorobenzene	146	9.391	9.387	0.004	90	23208	1.07	
117 1,2-Dibromo-3-Chloropropane	75	10.042	10.038	0.004	34	2443	1.05	
119 1,2,4-Trichlorobenzene	180	10.711	10.713	-0.002	71	12966	1.03	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
120 Hexachlorobutadiene	225	10.827	10.829	-0.002	62	6083	1.09	
121 Naphthalene	128	10.912	10.914	-0.002	84	26062	1.04	
122 1,2,3-Trichlorobenzene	180	11.113	11.109	0.004	62	9614	1.11	
S 123 Total BTEX	1				0		6.65	
S 124 Xylenes, Total	1				0		3.29	
S 125 1,2-Dichloroethene, Total	1				0		2.23	
S 126 1,3-Dichloropropene, Total	1				0		2.07	

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9494.D
Injection Date: 25-Jul-2013 13:13:30 Limit Group: MV - 8260B ICAL
Client ID: Instrument ID: HP5973Q
Lims Batch ID: 130641 Lims Sample ID: 2
Operator ID: PJQ Purge Vol: 5.000 mL
Column Type: ZB-624 Column Dia: 0.25 mm
Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9495.D
 Lims ID: IC 2 Client ID:
 Inject. Date: 25-Jul-2013 13:41:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 2
 Sample ID: IC 2
 Misc. Info.: 480-0023793-003
 Operator: PJQ Instrument ID: HP5973Q
 Purge Vol: 5.000 mL ALS Bottle#: 25
 Lims Batch ID: 130641 Lims Sample ID: 3
 Sublist: chrom-Q-8260*sub1
 Detector: MS SCAN
 Method: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q-8260.m
 Last Update: 25-Jul-2013 16:48:35 Calib Date: 25-Jul-2013 15:31:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK015

First Level Reviewer: BrandtT

Date: 25-Jul-2013 16:48:35

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.005	5.007	-0.002	95	628736	25.0	
* 2 Chlorobenzene-d5	82	7.195	7.197	-0.002	87	316414	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.057	9.059	-0.002	93	326428	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.695	4.697	-0.002	91	120341	25.3	
\$ 5 Toluene-d8 (Surr)	98	6.088	6.090	-0.002	84	768647	24.8	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.126	8.128	-0.002	92	249963	24.2	
10 Dichlorodifluoromethane	85	1.355	1.357	-0.002	97	50159	4.96	
12 Chloromethane	50	1.501	1.503	-0.002	99	52070	4.96	
13 Vinyl chloride	62	1.593	1.594	-0.001	77	47251	4.89	
14 Bromomethane	94	1.866	1.868	-0.002	83	10840	4.44	M
15 Chloroethane	64	1.951	1.953	-0.002	73	13694	5.04	
17 Trichlorofluoromethane	101	2.183	2.184	-0.001	82	61220	4.90	
20 Acrolein	56	2.602	2.604	-0.002	92	92565	97.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.651	2.647	0.004	75	38041	5.06	
22 1,1-Dichloroethene	96	2.651	2.653	-0.002	88	38668	5.04	
23 Acetone	43	2.748	2.744	0.004	99	72639	24.0	
25 Iodomethane	142	2.785	2.786	-0.001	75	13153	4.75	
26 Carbon disulfide	76	2.828	2.829	-0.001	99	119574	5.05	
29 Acetonitrile	40	2.992	2.987	0.005	99	124658	196.7	
27 Methyl acetate	43	3.010	3.005	0.005	93	41964	4.96	
30 Methylene Chloride	84	3.089	3.085	0.004	84	42840	4.88	
32 Methyl tert-butyl ether	73	3.290	3.291	-0.001	90	141886	5.06	
34 trans-1,2-Dichloroethene	96	3.296	3.291	0.005	92	42754	5.02	
33 Acrylonitrile	53	3.308	3.304	0.004	99	92572	24.9	
39 1,1-Dichloroethane	63	3.637	3.632	0.005	95	84546	4.97	
37 Vinyl acetate	43	3.679	3.675	0.004	97	459707	25.1	
44 2,2-Dichloropropane	77	4.069	4.070	-0.001	90	69314	5.02	
45 cis-1,2-Dichloroethene	96	4.087	4.088	-0.001	84	49076	5.17	
43 2-Butanone (MEK)	43	4.111	4.100	0.011	94	105894	23.8	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
48 Chlorobromomethane	128	4.269	4.271	-0.002	92	25816	5.04	
49 Tetrahydrofuran	42	4.306	4.301	0.005	84	67444	23.9	
50 Chloroform	83	4.330	4.332	-0.002	81	76912	5.03	
51 1,1,1-Trichloroethane	97	4.440	4.441	-0.001	90	67674	4.92	
52 Cyclohexane	56	4.470	4.466	0.004	89	77500	5.02	
55 Carbon tetrachloride	117	4.561	4.563	-0.002	78	61820	5.02	
54 1,1-Dichloropropene	75	4.567	4.563	0.004	91	59577	5.04	
57 Benzene	78	4.719	4.721	-0.002	97	168972	5.04	
58 1,2-Dichloroethane	62	4.756	4.751	0.005	90	71516	5.05	
62 Trichloroethene	95	5.200	5.196	0.004	91	46448	4.99	
64 Methylcyclohexane	83	5.316	5.311	0.005	89	76422	5.17	
65 1,2-Dichloropropane	63	5.370	5.372	-0.002	93	48326	4.95	
67 Dibromomethane	93	5.468	5.469	-0.001	89	30126	5.01	
68 Dichlorobromomethane	83	5.583	5.585	-0.002	91	60137	4.91	
69 2-Chloroethyl vinyl ether	63	5.790	5.792	-0.002	92	174614	25.2	
72 cis-1,3-Dichloropropene	75	5.906	5.901	0.005	88	77175	5.01	
73 4-Methyl-2-pentanone (MIBK)	43	6.003	6.005	-0.002	95	236316	24.4	
74 Toluene	92	6.137	6.138	-0.001	97	110395	4.79	
77 trans-1,3-Dichloropropene	75	6.325	6.321	0.004	93	74203	4.81	
75 Ethyl methacrylate	69	6.362	6.364	-0.002	86	67910	4.72	
79 1,1,2-Trichloroethane	83	6.465	6.467	-0.002	87	36745	4.97	
81 Tetrachloroethene	166	6.551	6.552	-0.001	96	50932	4.82	
82 1,3-Dichloropropane	76	6.587	6.589	-0.002	90	76262	4.90	
80 2-Hexanone	43	6.636	6.631	0.005	93	174058	25.4	
83 Chlorodibromomethane	129	6.770	6.771	-0.001	87	50284	4.67	
84 Ethylene Dibromide	107	6.855	6.856	-0.001	97	47690	4.82	
87 Chlorobenzene	112	7.220	7.221	-0.001	87	132381	4.95	
89 1,1,1,2-Tetrachloroethane	131	7.287	7.282	0.005	89	47473	4.87	
88 Ethylbenzene	91	7.287	7.288	-0.001	98	214009	4.95	
90 m-Xylene & p-Xylene	106	7.378	7.379	-0.001	98	171899	9.86	
91 o-Xylene	106	7.694	7.696	-0.002	96	86251	4.84	
92 Styrene	104	7.713	7.708	0.005	96	147332	4.96	
95 Bromoform	173	7.889	7.891	-0.001	95	34220	4.59	
94 Isopropylbenzene	105	7.980	7.982	-0.002	95	219944	4.97	
101 Bromobenzene	156	8.248	8.249	-0.001	94	59857	4.95	
97 1,1,2,2-Tetrachloroethane	83	8.254	8.256	-0.002	85	62764	4.97	
100 1,2,3-Trichloropropane	110	8.290	8.292	-0.002	69	19625	5.08	
98 trans-1,4-Dichloro-2-butene	53	8.290	8.292	-0.002	87	71496	24.8	
99 N-Propylbenzene	91	8.309	8.310	-0.001	93	267068	5.13	
103 2-Chlorotoluene	126	8.394	8.395	-0.001	96	54779	5.05	
102 1,3,5-Trimethylbenzene	105	8.449	8.450	-0.001	75	181663	4.97	
105 4-Chlorotoluene	126	8.485	8.481	0.004	96	56786	5.03	
106 tert-Butylbenzene	134	8.710	8.712	-0.002	91	42374	4.98	
107 1,2,4-Trimethylbenzene	105	8.759	8.754	0.005	95	185625	4.97	
109 sec-Butylbenzene	105	8.893	8.888	0.005	92	229397	4.91	
111 1,3-Dichlorobenzene	146	9.008	9.004	0.004	73	111699	5.06	
110 4-Isopropyltoluene	119	9.008	9.010	-0.002	96	198369	5.00	
113 1,4-Dichlorobenzene	146	9.081	9.077	0.004	93	111284	4.98	
115 n-Butylbenzene	91	9.343	9.344	-0.001	97	169623	4.98	
116 1,2-Dichlorobenzene	146	9.385	9.387	-0.002	96	106117	4.95	
117 1,2-Dibromo-3-Chloropropane	75	10.042	10.038	0.004	62	10534	4.59	
119 1,2,4-Trichlorobenzene	180	10.712	10.713	-0.001	92	60306	4.86	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
120 Hexachlorobutadiene	225	10.833	10.829	0.004	92	26325	4.79	
121 Naphthalene	128	10.912	10.914	-0.002	97	117668	4.78	
122 1,2,3-Trichlorobenzene	180	11.107	11.109	-0.002	94	40538	4.74	
S 123 Total BTEX	1				0		29.5	
S 124 Xylenes, Total	1				0		14.7	
S 125 1,2-Dichloroethene, Total	1				0		10.2	
S 126 1,3-Dichloropropene, Total	1				0		9.82	

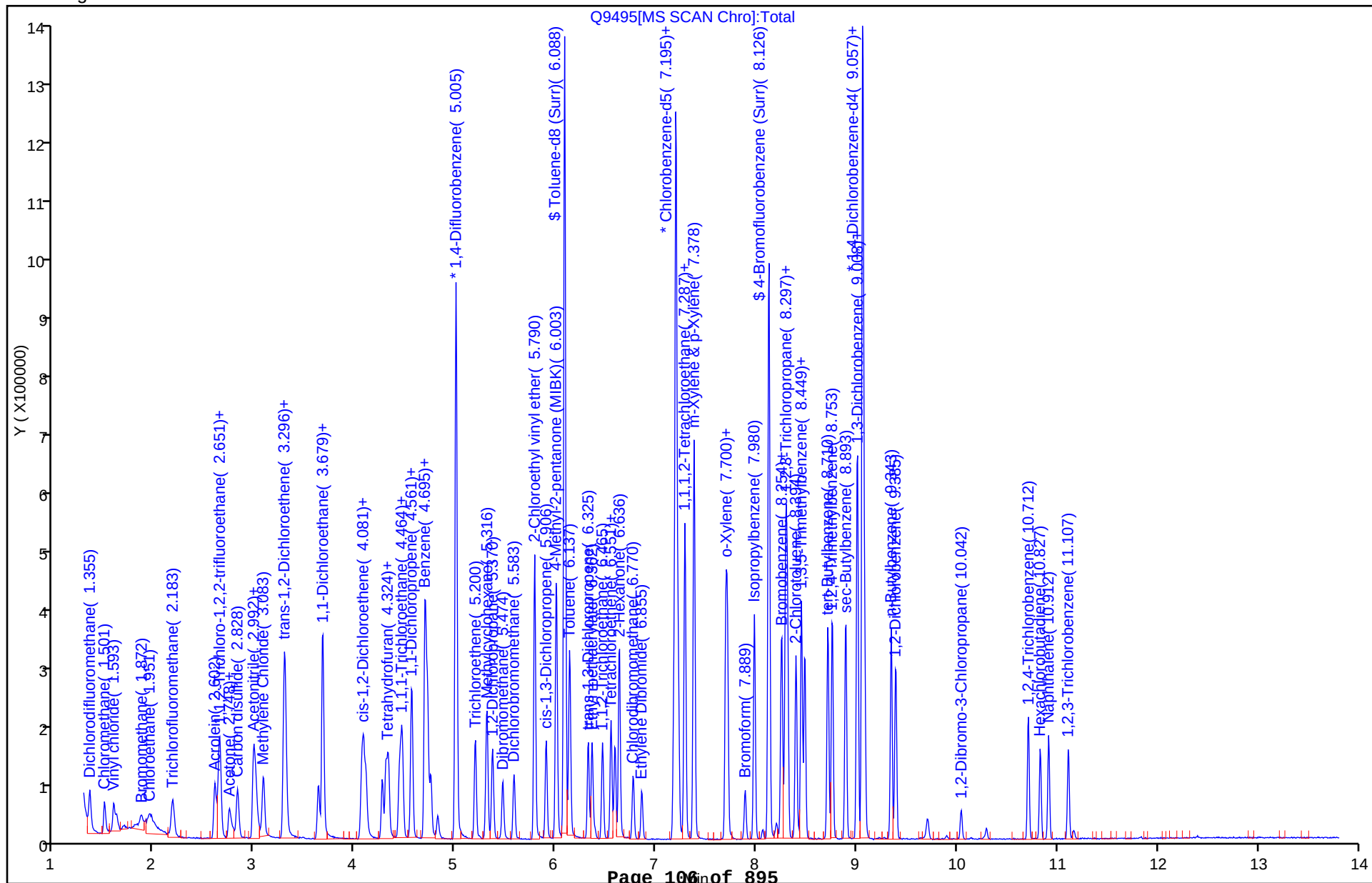
QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9495.D
Injection Date: 25-Jul-2013 13:41:30 Limit Group: MV - 8260B ICAL
Client ID: Instrument ID: HP5973Q
Lims Batch ID: 130641 Lims Sample ID: 3
Operator ID: PJQ Purge Vol: 5.000 mL
Column Type: ZB-624 Column Dia: 0.25 mm
Y Scaling:



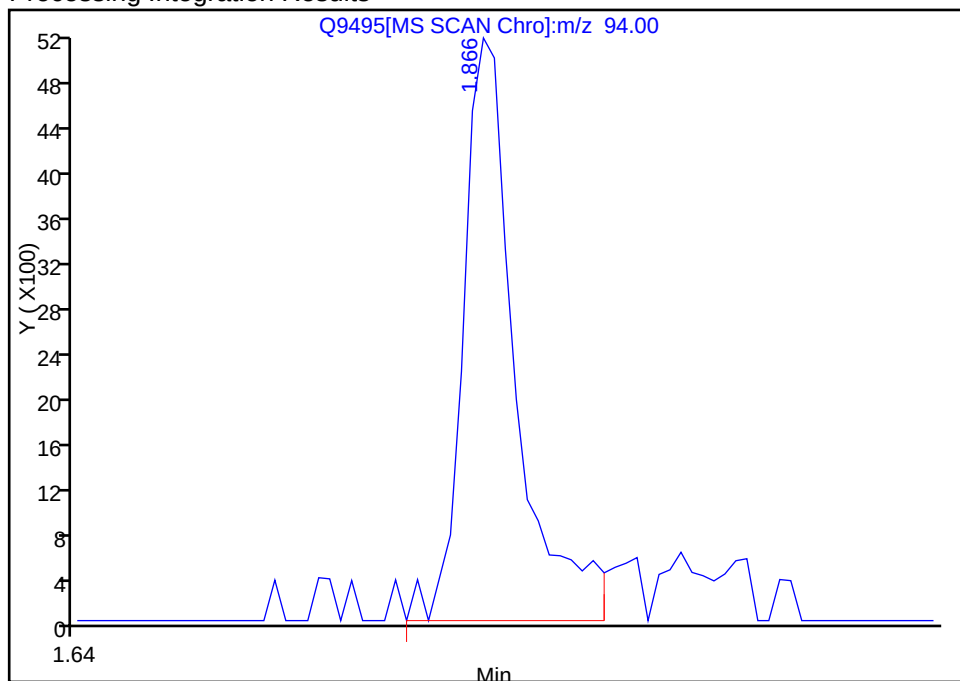
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9495.D		
Injection Date:	25-Jul-2013 13:41:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	130641	Lims Sample ID:	3
Operator ID:	PJQ	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

14 Bromomethane, Signal: 1, m/z: 94.0 Type: quant, RT: 1.87

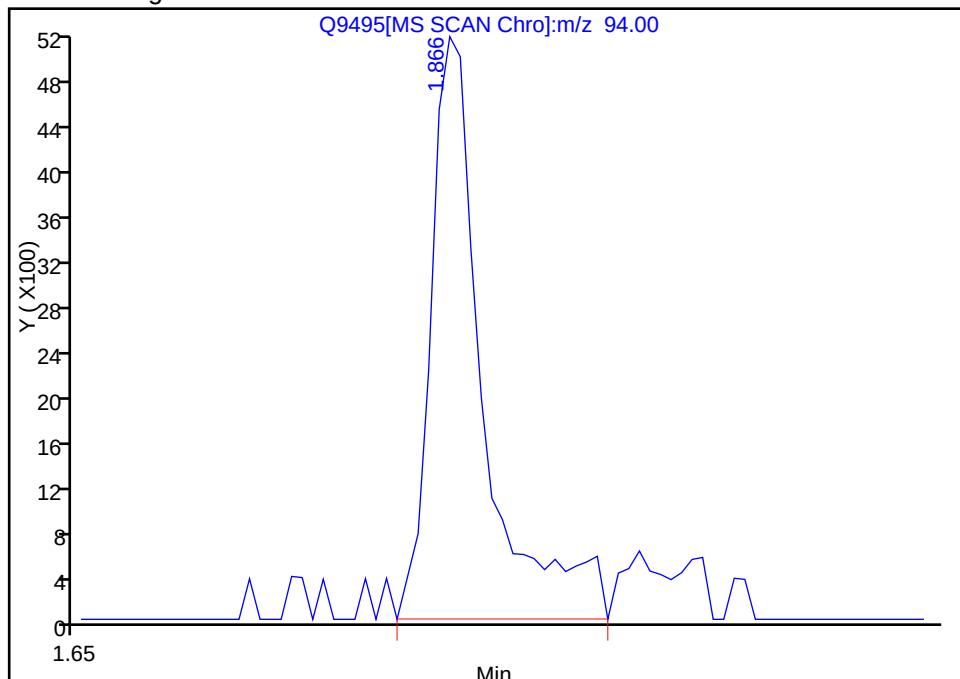
RT: 1.87
Response: 10435
Amount: 3.885529

Processing Integration Results



RT: 1.87
Response: 10840
Amount: 4.443535

Manual Integration Results



Reviewer: BrandtT, 25-Jul-2013 15:20:23
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9496.D
 Lims ID: IC 3 Client ID:
 Inject. Date: 25-Jul-2013 14:08:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 3
 Sample ID: IC 3
 Misc. Info.: 480-0023793-004
 Operator: PJQ Instrument ID: HP5973Q
 Purge Vol: 5.000 mL ALS Bottle#: 26
 Lims Batch ID: 130641 Lims Sample ID: 4
 Sublist: chrom-Q-8260*sub1
 Detector: MS SCAN
 Method: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q-8260.m
 Last Update: 25-Jul-2013 16:48:37 Calib Date: 25-Jul-2013 15:31:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK015

First Level Reviewer: BrandtT

Date: 25-Jul-2013 16:48:37

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.004	5.007	-0.003	95	627256	25.0	
* 2 Chlorobenzene-d5	82	7.200	7.197	0.003	86	308187	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.061	9.059	0.002	90	323161	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.699	4.697	0.002	90	120212	25.3	
\$ 5 Toluene-d8 (Surr)	98	6.086	6.090	-0.004	84	745505	24.7	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.124	8.128	-0.004	91	250654	24.9	
10 Dichlorodifluoromethane	85	1.354	1.357	-0.003	98	102965	10.2	
12 Chloromethane	50	1.500	1.503	-0.003	88	105966	10.1	
13 Vinyl chloride	62	1.591	1.594	-0.003	81	97411	10.1	
14 Bromomethane	94	1.865	1.868	-0.003	89	22998	10.5	M
15 Chloroethane	64	1.950	1.953	-0.003	90	28551	10.5	
17 Trichlorofluoromethane	101	2.181	2.184	-0.003	95	125527	10.1	
20 Acrolein	56	2.601	2.604	-0.003	91	189623	199.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.643	2.647	-0.004	79	75632	10.1	
22 1,1-Dichloroethene	96	2.649	2.653	-0.004	88	77784	10.2	
23 Acetone	43	2.747	2.744	0.003	100	148665	49.2	
25 Iodomethane	142	2.783	2.786	-0.003	97	37749	9.00	
26 Carbon disulfide	76	2.826	2.829	-0.003	99	237546	10.1	
29 Acetonitrile	40	2.984	2.987	-0.003	99	249368	394.3	
27 Methyl acetate	43	3.008	3.005	0.003	95	86178	10.2	
30 Methylene Chloride	84	3.087	3.085	0.002	86	87595	10.0	
32 Methyl tert-butyl ether	73	3.288	3.291	-0.003	91	280023	10.0	
34 trans-1,2-Dichloroethene	96	3.294	3.291	0.003	93	87564	10.3	
33 Acrylonitrile	53	3.306	3.304	0.002	98	186624	50.3	
39 1,1-Dichloroethane	63	3.635	3.632	0.003	85	167759	9.89	
37 Vinyl acetate	43	3.677	3.675	0.002	97	933357	51.2	
44 2,2-Dichloropropane	77	4.067	4.070	-0.003	89	140664	10.2	
45 cis-1,2-Dichloroethene	96	4.085	4.088	-0.003	85	95420	10.1	
43 2-Butanone (MEK)	43	4.103	4.100	0.003	94	218911	49.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
48 Chlorobromomethane	128	4.268	4.271	-0.003	92	51671	10.1	
49 Tetrahydrofuran	42	4.304	4.301	0.003	84	144286	51.2	
50 Chloroform	83	4.334	4.332	0.002	81	152916	10.0	
51 1,1,1-Trichloroethane	97	4.444	4.441	0.003	93	140325	10.2	
52 Cyclohexane	56	4.468	4.466	0.002	90	154417	10.0	
55 Carbon tetrachloride	117	4.560	4.563	-0.003	78	123728	10.1	
54 1,1-Dichloropropene	75	4.566	4.563	0.003	91	121127	10.3	
57 Benzene	78	4.718	4.721	-0.003	97	337282	10.1	
58 1,2-Dichloroethane	62	4.754	4.751	0.003	89	143061	10.1	
62 Trichloroethene	95	5.198	5.196	0.002	95	93241	10.0	
64 Methylcyclohexane	83	5.314	5.311	0.003	91	147419	10.0	
65 1,2-Dichloropropane	63	5.369	5.372	-0.003	94	97754	10.0	
67 Dibromomethane	93	5.472	5.469	0.003	84	60213	10.0	
68 Dichlorobromomethane	83	5.582	5.585	-0.003	98	123626	10.1	
69 2-Chloroethyl vinyl ether	63	5.788	5.792	-0.004	91	354874	51.3	
72 cis-1,3-Dichloropropene	75	5.904	5.901	0.003	89	156904	10.2	
73 4-Methyl-2-pentanone (MIBK)	43	6.001	6.005	-0.004	96	475086	50.4	
74 Toluene	92	6.141	6.138	0.003	96	225841	10.1	
77 trans-1,3-Dichloropropene	75	6.324	6.321	0.003	91	151664	10.1	
75 Ethyl methacrylate	69	6.360	6.364	-0.004	89	142635	10.2	
79 1,1,2-Trichloroethane	83	6.464	6.467	-0.003	88	72389	10.1	
81 Tetrachloroethene	166	6.555	6.552	0.003	93	104325	10.1	
82 1,3-Dichloropropane	76	6.591	6.589	0.002	90	151863	10.0	
80 2-Hexanone	43	6.634	6.631	0.003	94	340790	51.0	
83 Chlorodibromomethane	129	6.774	6.771	0.003	90	103477	9.87	
84 Ethylene Dibromide	107	6.859	6.856	0.003	98	95563	9.92	
87 Chlorobenzene	112	7.218	7.221	-0.003	86	261631	10.0	
89 1,1,1,2-Tetrachloroethane	131	7.285	7.282	0.003	95	96807	10.2	
88 Ethylbenzene	91	7.291	7.288	0.003	98	435424	10.3	
90 m-Xylene & p-Xylene	106	7.382	7.379	0.003	98	347932	20.5	
91 o-Xylene	106	7.693	7.696	-0.003	96	176914	10.2	
92 Styrene	104	7.711	7.708	0.003	95	293514	10.1	
95 Bromoform	173	7.887	7.891	-0.003	96	68486	9.43	
94 Isopropylbenzene	105	7.978	7.982	-0.004	96	446793	10.2	
101 Bromobenzene	156	8.252	8.249	0.003	95	120155	10.0	
97 1,1,2,2-Tetrachloroethane	83	8.252	8.256	-0.004	91	125419	10.0	
100 1,2,3-Trichloropropane	110	8.289	8.292	-0.003	75	39102	10.2	
98 trans-1,4-Dichloro-2-butene	53	8.295	8.292	0.003	92	147512	51.7	
99 N-Propylbenzene	91	8.307	8.310	-0.003	98	537588	10.4	
103 2-Chlorotoluene	126	8.398	8.395	0.003	96	109570	10.2	
102 1,3,5-Trimethylbenzene	105	8.447	8.450	-0.003	73	374060	10.3	
105 4-Chlorotoluene	126	8.483	8.481	0.002	96	114586	10.3	
106 tert-Butylbenzene	134	8.715	8.712	0.003	85	85009	10.1	
107 1,2,4-Trimethylbenzene	105	8.757	8.754	0.003	96	374499	10.1	
109 sec-Butylbenzene	105	8.891	8.888	0.003	94	468829	10.1	
111 1,3-Dichlorobenzene	146	9.007	9.004	0.003	82	222642	10.2	
110 4-Isopropyltoluene	119	9.007	9.010	-0.003	94	406184	10.3	
113 1,4-Dichlorobenzene	146	9.080	9.077	0.003	94	225697	10.2	
115 n-Butylbenzene	91	9.347	9.344	0.003	94	344713	10.2	
116 1,2-Dichlorobenzene	146	9.390	9.387	0.003	98	216672	10.2	
117 1,2-Dibromo-3-Chloropropane	75	10.041	10.038	0.003	73	22372	9.85	
119 1,2,4-Trichlorobenzene	180	10.710	10.713	-0.003	93	124051	10.1	

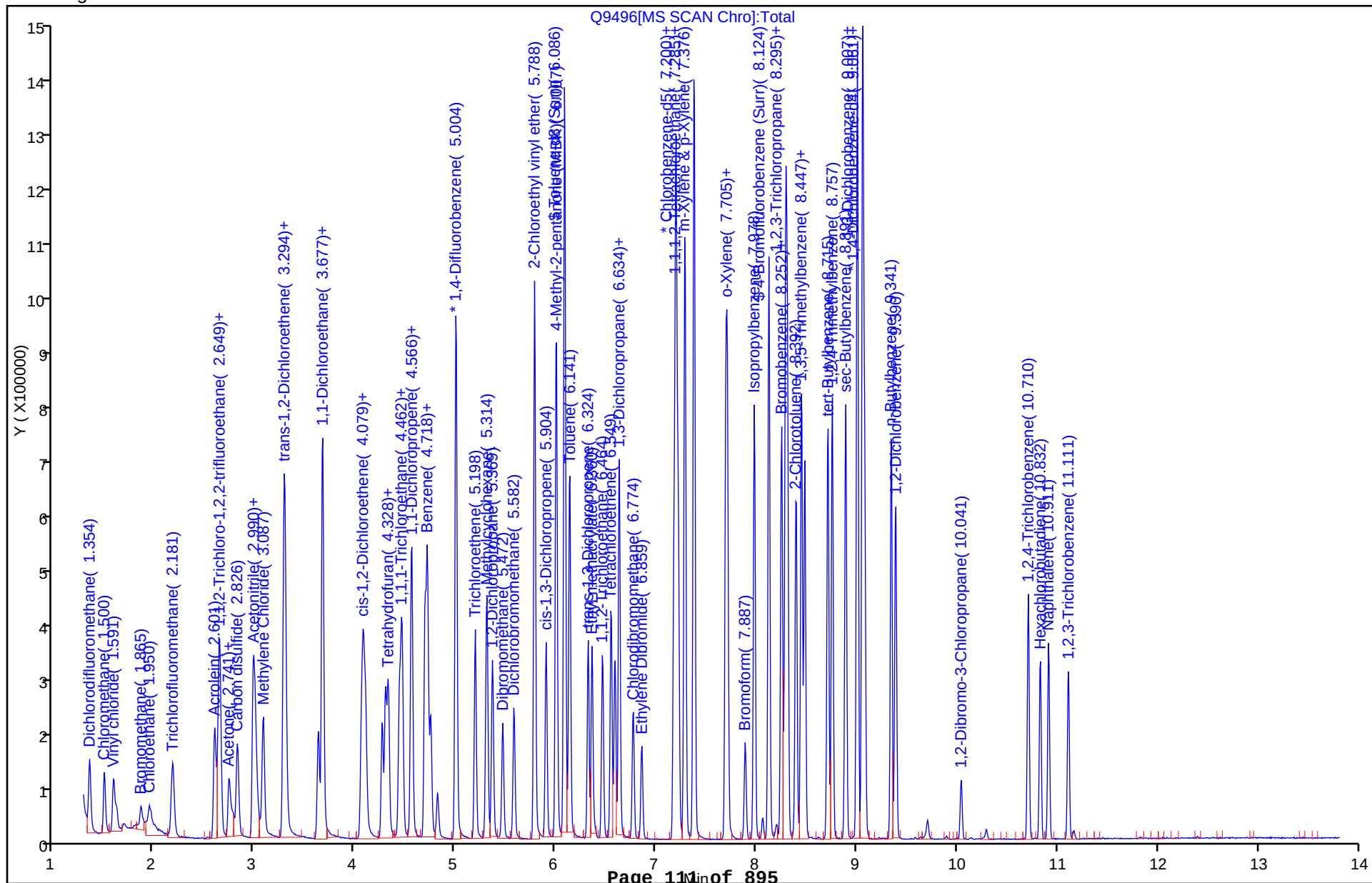
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
120 Hexachlorobutadiene	225	10.832	10.829	0.003	95	56056	10.3	
121 Naphthalene	128	10.911	10.914	-0.003	97	238493	9.79	
122 1,2,3-Trichlorobenzene	180	11.111	11.109	0.002	96	82758	9.78	
S 123 Total BTEX	1				0		61.2	
S 124 Xylenes, Total	1				0		30.7	
S 125 1,2-Dichloroethene, Total	1				0		20.4	
S 126 1,3-Dichloropropene, Total	1				0		20.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9496.D		
Injection Date:	25-Jul-2013 14:08:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	130641	Lims Sample ID:	4
Operator ID:	PJQ	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm
Y Scaling:			



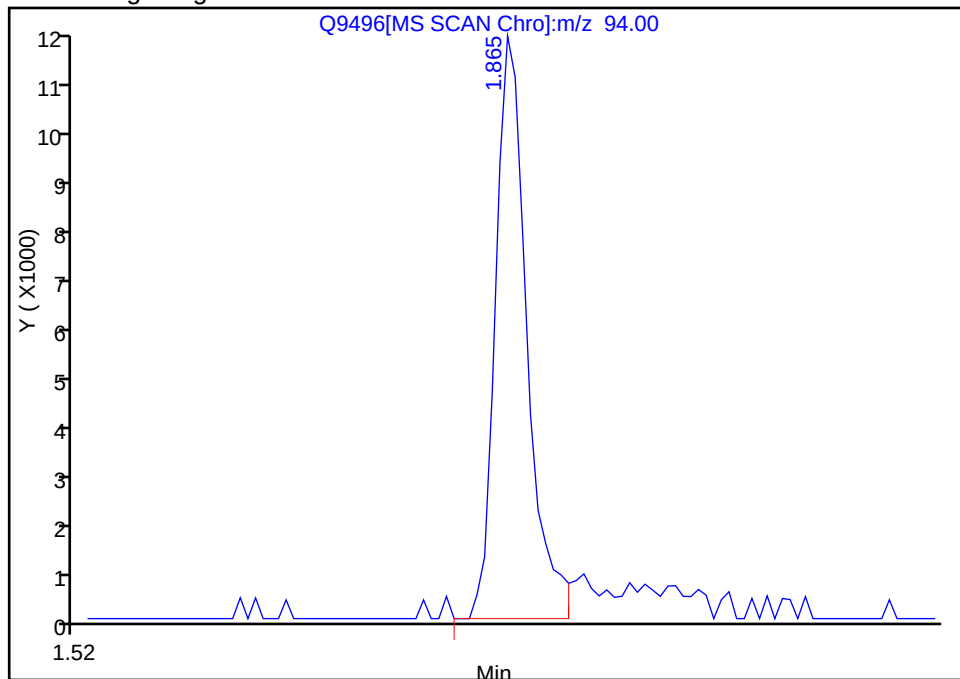
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9496.D		
Injection Date:	25-Jul-2013 14:08:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	130641	Lims Sample ID:	4
Operator ID:	PJQ	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

14 Bromomethane, Signal: 1, m/z: 94.0 Type: quant, RT: 1.87

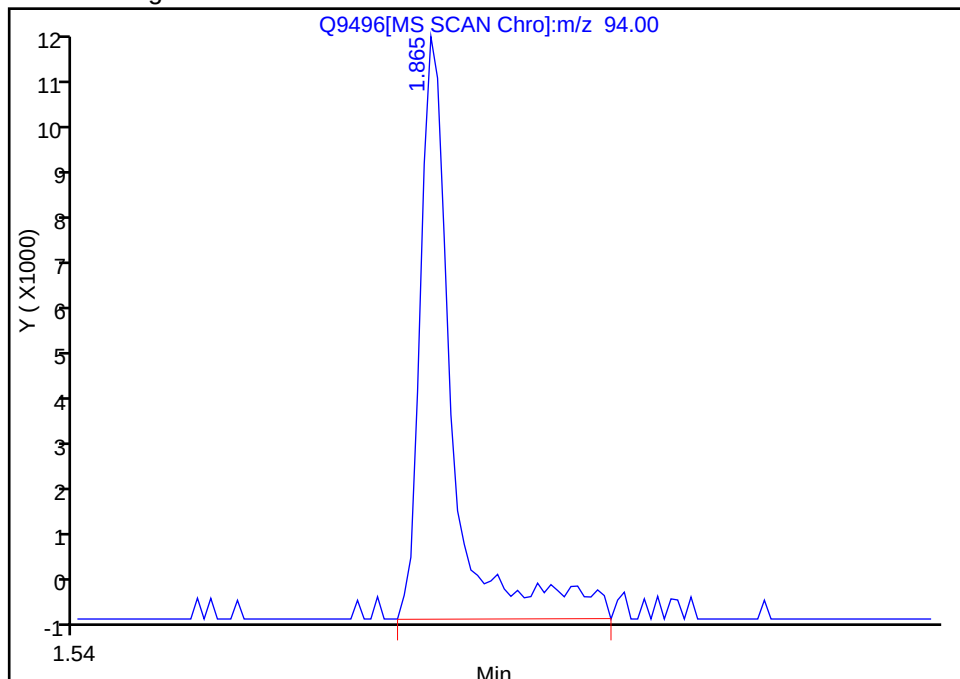
RT: 1.86
Response: 19406
Amount: 7.300231

Processing Integration Results



RT: 1.86
Response: 22998
Amount: 10.503808

Manual Integration Results



Reviewer: BrandtT, 25-Jul-2013 15:21:33
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9497.D
 Lims ID: ICIS 4 Client ID:
 Inject. Date: 25-Jul-2013 14:36:30 Dil. Factor: 1.0000
 Sample Type: ICIS Calib Level: 4
 Sample ID: ICIS 4
 Misc. Info.: 480-0023793-005
 Operator: PJQ Instrument ID: HP5973Q
 Purge Vol: 5.000 mL ALS Bottle#: 27
 Lims Batch ID: 130641 Lims Sample ID: 5
 Sublist: chrom-Q-8260*sub1
 Detector: MS SCAN
 Method: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q-8260.m
 Last Update: 25-Jul-2013 16:48:40 Calib Date: 25-Jul-2013 15:31:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK015

First Level Reviewer: BrandtT

Date: 25-Jul-2013 16:48:40

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.007	5.007	0.0	94	620038	25.0	
* 2 Chlorobenzene-d5	82	7.197	7.197	0.0	85	302943	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.059	9.059	0.0	91	317522	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.697	4.697	0.0	90	117827	25.1	
\$ 5 Toluene-d8 (Surr)	98	6.090	6.090	0.0	91	743062	25.0	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.128	8.128	0.0	93	250525	25.3	
10 Dichlorodifluoromethane	85	1.357	1.357	0.0	87	238813	24.0	
12 Chloromethane	50	1.503	1.503	0.0	89	254271	24.6	
13 Vinyl chloride	62	1.594	1.594	0.0	97	234953	24.7	
14 Bromomethane	94	1.868	1.868	0.0	90	53481	24.8	M
15 Chloroethane	64	1.953	1.953	0.0	93	69312	25.9	
17 Trichlorofluoromethane	101	2.184	2.184	0.0	96	308371	25.0	
20 Acrolein	56	2.604	2.604	0.0	95	452482	482.4	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.647	2.647	0.0	81	183068	24.7	
22 1,1-Dichloroethene	96	2.653	2.653	0.0	88	185601	24.5	
23 Acetone	43	2.744	2.744	0.0	100	362755	121.4	
25 Iodomethane	142	2.786	2.786	0.0	98	125741	23.4	
26 Carbon disulfide	76	2.829	2.829	0.0	99	584313	25.0	
29 Acetonitrile	40	2.987	2.987	0.0	99	596270	953.9	
27 Methyl acetate	43	3.005	3.005	0.0	95	205029	24.6	
30 Methylene Chloride	84	3.085	3.085	0.0	89	213125	24.6	
32 Methyl tert-butyl ether	73	3.291	3.291	0.0	90	705294	25.5	
34 trans-1,2-Dichloroethene	96	3.291	3.291	0.0	93	206437	24.6	
33 Acrylonitrile	53	3.304	3.304	0.0	99	467695	127.5	
39 1,1-Dichloroethane	63	3.632	3.632	0.0	97	415015	24.8	
37 Vinyl acetate	43	3.675	3.675	0.0	97	2317727	128.5	
44 2,2-Dichloropropane	77	4.070	4.070	0.0	88	330478	24.3	
45 cis-1,2-Dichloroethene	96	4.088	4.088	0.0	70	234316	25.0	
43 2-Butanone (MEK)	43	4.100	4.100	0.0	94	539892	122.9	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
48 Chlorobromomethane	128	4.271	4.271	0.0	92	125439	24.8	
49 Tetrahydrofuran	42	4.301	4.301	0.0	84	347350	124.6	
50 Chloroform	83	4.332	4.332	0.0	95	369757	24.5	
51 1,1,1-Trichloroethane	97	4.441	4.441	0.0	93	338201	24.9	
52 Cyclohexane	56	4.466	4.466	0.0	90	372505	24.4	
55 Carbon tetrachloride	117	4.563	4.563	0.0	79	301170	24.8	
54 1,1-Dichloropropene	75	4.563	4.563	0.0	92	289395	24.8	
57 Benzene	78	4.721	4.721	0.0	97	824146	24.9	
58 1,2-Dichloroethane	62	4.751	4.751	0.0	96	350689	25.1	
62 Trichloroethene	95	5.196	5.196	0.0	92	220913	24.1	
64 Methylcyclohexane	83	5.311	5.311	0.0	92	358290	24.6	
65 1,2-Dichloropropane	63	5.372	5.372	0.0	93	235450	24.5	
67 Dibromomethane	93	5.469	5.469	0.0	87	148536	25.0	
68 Dichlorobromomethane	83	5.585	5.585	0.0	99	302911	25.1	
69 2-Chloroethyl vinyl ether	63	5.792	5.792	0.0	92	865007	126.5	
72 cis-1,3-Dichloropropene	75	5.901	5.901	0.0	88	381943	25.1	
73 4-Methyl-2-pentanone (MIBK)	43	6.005	6.005	0.0	95	1158248	125.1	
74 Toluene	92	6.138	6.138	0.0	98	540393	24.5	
77 trans-1,3-Dichloropropene	75	6.321	6.321	0.0	95	369231	25.0	
75 Ethyl methacrylate	69	6.364	6.364	0.0	87	348834	25.3	
79 1,1,2-Trichloroethane	83	6.467	6.467	0.0	93	175346	24.8	
81 Tetrachloroethene	166	6.552	6.552	0.0	92	249834	24.7	
82 1,3-Dichloropropane	76	6.589	6.589	0.0	88	369202	24.8	
80 2-Hexanone	43	6.631	6.631	0.0	94	829164	126.2	
83 Chlorodibromomethane	129	6.771	6.771	0.0	88	259811	25.2	
84 Ethylene Dibromide	107	6.856	6.856	0.0	98	237274	25.1	
87 Chlorobenzene	112	7.221	7.221	0.0	87	631604	24.7	
89 1,1,1,2-Tetrachloroethane	131	7.282	7.282	0.0	91	231776	24.8	
88 Ethylbenzene	91	7.288	7.288	0.0	98	1012910	24.4	
90 m-Xylene & p-Xylene	106	7.379	7.379	0.0	98	818008	49.0	
91 o-Xylene	106	7.696	7.696	0.0	95	418097	24.5	
92 Styrene	104	7.708	7.708	0.0	94	703995	24.8	
95 Bromoform	173	7.891	7.891	0.0	98	180411	25.3	
94 Isopropylbenzene	105	7.982	7.982	0.0	95	1068653	24.8	
101 Bromobenzene	156	8.249	8.249	0.0	94	293304	25.0	
97 1,1,2,2-Tetrachloroethane	83	8.256	8.256	0.0	89	302173	24.6	
100 1,2,3-Trichloropropane	110	8.292	8.292	0.0	75	93021	24.8	
98 trans-1,4-Dichloro-2-butene	53	8.292	8.292	0.0	92	369828	132.0	
99 N-Propylbenzene	91	8.310	8.310	0.0	95	1237032	24.4	
103 2-Chlorotoluene	126	8.395	8.395	0.0	96	256692	24.3	
102 1,3,5-Trimethylbenzene	105	8.450	8.450	0.0	75	876650	24.7	
105 4-Chlorotoluene	126	8.481	8.481	0.0	96	271321	24.7	
106 tert-Butylbenzene	134	8.712	8.712	0.0	91	204004	24.6	
107 1,2,4-Trimethylbenzene	105	8.754	8.754	0.0	96	897431	24.7	
109 sec-Butylbenzene	105	8.888	8.888	0.0	94	1122099	24.7	
111 1,3-Dichlorobenzene	146	9.004	9.004	0.0	98	525216	24.5	
110 4-Isopropyltoluene	119	9.010	9.010	0.0	94	943401	24.4	
113 1,4-Dichlorobenzene	146	9.077	9.077	0.0	94	531328	24.4	
115 n-Butylbenzene	91	9.344	9.344	0.0	95	810702	24.5	
116 1,2-Dichlorobenzene	146	9.387	9.387	0.0	97	518662	24.9	
117 1,2-Dibromo-3-Chloropropane	75	10.038	10.038	0.0	84	55455	24.9	
119 1,2,4-Trichlorobenzene	180	10.713	10.713	0.0	94	302611	25.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
120 Hexachlorobutadiene	225	10.829	10.829	0.0	95	131799	24.7	
121 Naphthalene	128	10.914	10.914	0.0	97	604994	25.3	
122 1,2,3-Trichlorobenzene	180	11.109	11.109	0.0	94	206869	24.9	
S 123 Total BTEX	1				0		147.4	
S 124 Xylenes, Total	1				0		73.5	
S 125 1,2-Dichloroethene, Total	1				0		49.6	
S 126 1,3-Dichloropropene, Total	1				0		50.1	

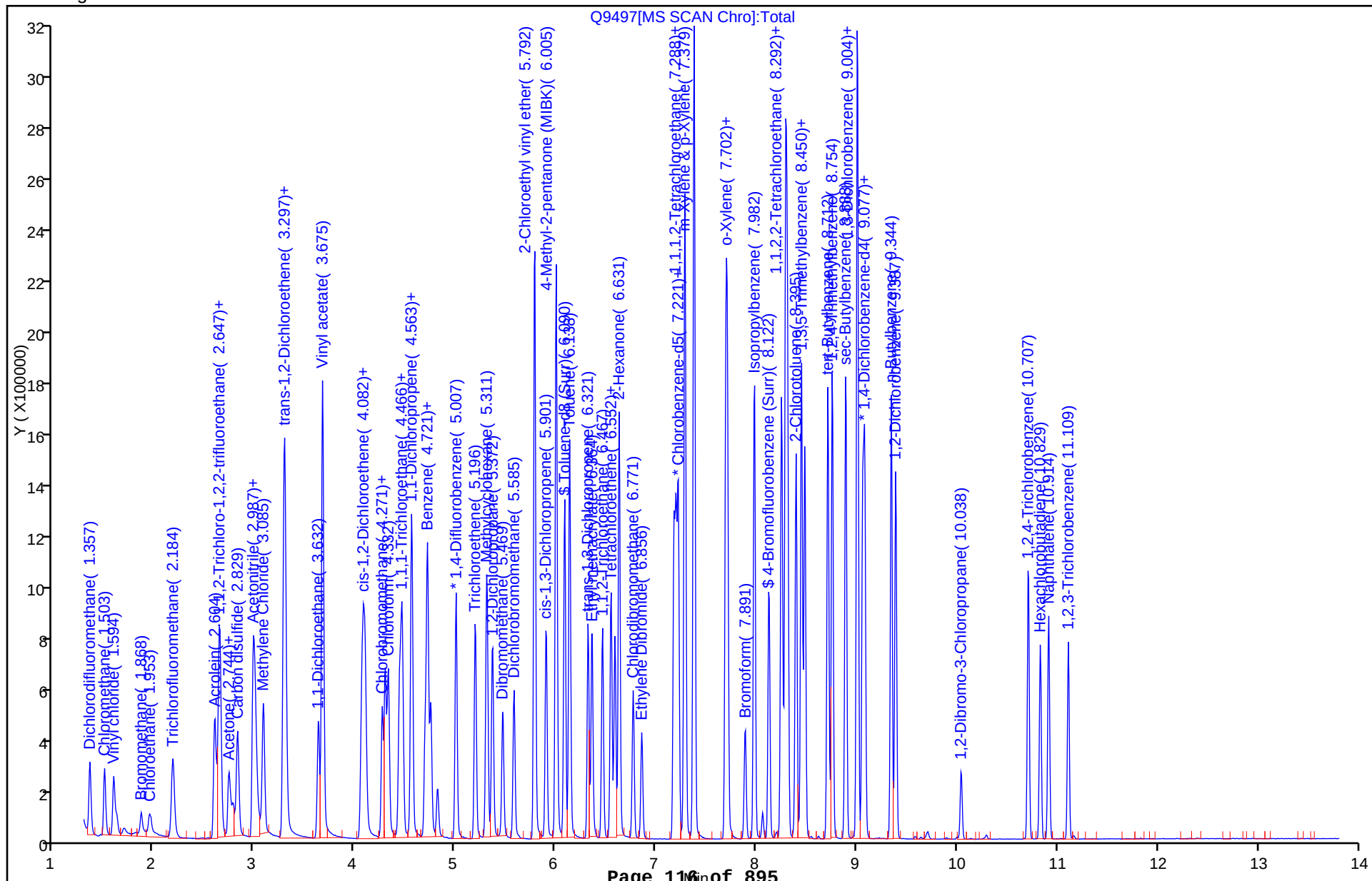
QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9497.D
Injection Date: 25-Jul-2013 14:36:30 Limit Group: MV - 8260B ICAL
Client ID: Instrument ID: HP5973Q
Lims Batch ID: 130641 Lims Sample ID: 5
Operator ID: PJQ Purge Vol: 5.000 mL
Column Type: ZB-624 Column Dia: 0.25 mm
Y Scaling:



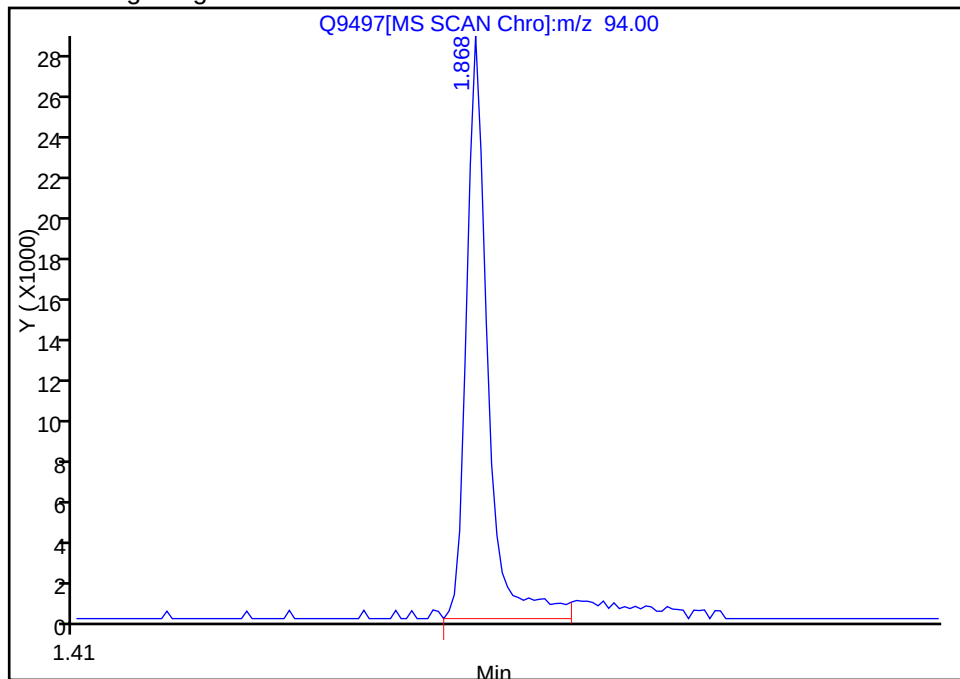
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9497.D		
Injection Date:	25-Jul-2013 14:36:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	130641	Lims Sample ID:	5
Operator ID:	PJQ	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

14 Bromomethane, Signal: 1, m/z: 94.0 Type: quant, RT: 1.87

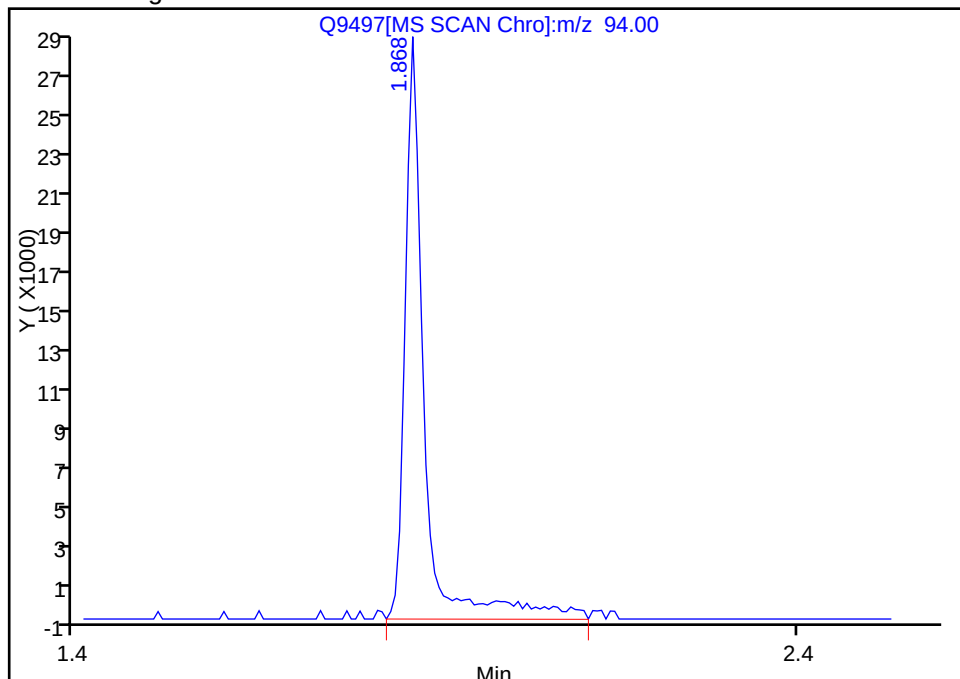
RT: 1.87
Response: 48716
Amount: 17.954011

Processing Integration Results



RT: 1.87
Response: 53481
Amount: 24.786212

Manual Integration Results



Reviewer: BrandtT, 25-Jul-2013 15:22:37
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9498.D
 Lims ID: IC 5 Client ID:
 Inject. Date: 25-Jul-2013 15:04:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 5
 Sample ID: IC 5
 Misc. Info.: 480-0023793-006
 Operator: PJQ Instrument ID: HP5973Q
 Purge Vol: 5.000 mL ALS Bottle#: 28
 Lims Batch ID: 130641 Lims Sample ID: 6
 Sublist: chrom-Q-8260*sub1
 Detector: MS SCAN
 Method: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q-8260.m
 Last Update: 25-Jul-2013 16:48:45 Calib Date: 25-Jul-2013 15:31:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK015

First Level Reviewer: BrandtT

Date: 25-Jul-2013 16:48:45

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.005	5.007	-0.002	94	612032	25.0	
* 2 Chlorobenzene-d5	82	7.195	7.197	-0.002	85	294081	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.063	9.059	0.004	68	309921	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.695	4.697	-0.002	91	113250	24.5	
\$ 5 Toluene-d8 (Surr)	98	6.088	6.090	-0.002	92	723965	25.1	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.126	8.128	-0.002	93	244465	25.4	
10 Dichlorodifluoromethane	85	1.355	1.357	-0.002	88	468239	47.6	
12 Chloromethane	50	1.501	1.503	-0.002	99	489185	47.9	
13 Vinyl chloride	62	1.592	1.594	-0.002	82	467439	49.7	
14 Bromomethane	94	1.866	1.868	-0.002	89	114555	50.1	M
15 Chloroethane	64	1.951	1.953	-0.002	99	120940	45.8	
17 Trichlorofluoromethane	101	2.176	2.184	-0.008	99	579295	47.7	
20 Acrolein	56	2.596	2.604	-0.008	95	942263	1017.7	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.645	2.647	-0.002	82	344488	47.1	
22 1,1-Dichloroethene	96	2.651	2.653	-0.002	90	353653	47.3	
23 Acetone	43	2.742	2.744	-0.002	98	703406	238.5	M
25 Iodomethane	142	2.785	2.786	-0.001	98	318572	51.3	
26 Carbon disulfide	76	2.827	2.829	-0.002	99	1117539	48.5	
29 Acetonitrile	40	2.985	2.987	-0.002	99	1158336	1877.3	
27 Methyl acetate	43	3.004	3.005	-0.001	95	400256	48.6	
30 Methylene Chloride	84	3.083	3.085	-0.002	85	412181	48.3	
32 Methyl tert-butyl ether	73	3.284	3.291	-0.007	91	1314668	48.2	
34 trans-1,2-Dichloroethene	96	3.290	3.291	-0.001	94	390200	47.1	
33 Acrylonitrile	53	3.302	3.304	-0.002	99	871089	240.5	
39 1,1-Dichloroethane	63	3.630	3.632	-0.002	97	798580	48.3	
37 Vinyl acetate	43	3.673	3.675	-0.002	97	4392175	246.7	
44 2,2-Dichloropropane	77	4.068	4.070	-0.002	86	627432	46.7	
45 cis-1,2-Dichloroethene	96	4.087	4.088	-0.001	70	435745	47.1	
43 2-Butanone (MEK)	43	4.099	4.100	-0.001	94	1036138	239.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
48 Chlorobromomethane	128	4.269	4.271	-0.002	94	244945	49.1	
49 Tetrahydrofuran	42	4.293	4.301	-0.008	85	667193	242.5	
50 Chloroform	83	4.330	4.332	-0.002	83	697232	46.9	
51 1,1,1-Trichloroethane	97	4.439	4.441	-0.002	92	644368	48.1	
52 Cyclohexane	56	4.464	4.466	-0.002	90	703747	46.8	
55 Carbon tetrachloride	117	4.561	4.563	-0.002	80	566627	47.3	
54 1,1-Dichloropropene	75	4.561	4.563	-0.002	94	538583	46.8	
57 Benzene	78	4.719	4.721	-0.002	97	1558013	47.7	
58 1,2-Dichloroethane	62	4.756	4.751	0.005	90	663305	48.1	
62 Trichloroethene	95	5.200	5.196	0.004	92	421479	46.5	
64 Methylcyclohexane	83	5.315	5.311	0.004	91	678859	47.2	
65 1,2-Dichloropropane	63	5.370	5.372	-0.002	96	452165	47.6	
67 Dibromomethane	93	5.468	5.469	-0.001	91	285624	48.8	
68 Dichlorobromomethane	83	5.583	5.585	-0.002	95	579189	48.6	
69 2-Chloroethyl vinyl ether	63	5.790	5.792	-0.002	91	1639540	242.9	
72 cis-1,3-Dichloropropene	75	5.906	5.901	0.005	91	725443	48.3	
73 4-Methyl-2-pentanone (MIBK)	43	6.003	6.005	-0.002	94	2186670	243.2	
74 Toluene	92	6.137	6.138	-0.001	98	1038817	48.5	
77 trans-1,3-Dichloropropene	75	6.325	6.321	0.004	94	711556	49.7	
75 Ethyl methacrylate	69	6.362	6.364	-0.002	88	681022	50.9	
79 1,1,2-Trichloroethane	83	6.465	6.467	-0.002	93	332661	48.4	
81 Tetrachloroethene	166	6.550	6.552	-0.002	92	474907	48.4	
82 1,3-Dichloropropane	76	6.593	6.589	0.004	86	705476	48.7	
80 2-Hexanone	43	6.629	6.631	-0.002	93	1563784	245.2	
83 Chlorodibromomethane	129	6.769	6.771	-0.002	92	513536	51.3	
84 Ethylene Dibromide	107	6.855	6.856	-0.001	99	453105	49.3	
87 Chlorobenzene	112	7.220	7.221	-0.001	93	1212699	48.8	
89 1,1,1,2-Tetrachloroethane	131	7.286	7.282	0.004	90	444624	49.1	
88 Ethylbenzene	91	7.286	7.288	-0.002	98	1888437	47.0	
90 m-Xylene & p-Xylene	106	7.378	7.379	-0.001	97	1539793	95.0	
91 o-Xylene	106	7.694	7.696	-0.002	96	804935	48.6	
92 Styrene	104	7.712	7.708	0.004	95	1358002	49.2	
95 Bromoform	173	7.889	7.891	-0.001	98	362483	52.3	
94 Isopropylbenzene	105	7.980	7.982	-0.002	95	2016423	48.0	
101 Bromobenzene	156	8.248	8.249	-0.001	91	555461	48.4	
97 1,1,2,2-Tetrachloroethane	83	8.254	8.256	-0.002	90	574840	47.9	
100 1,2,3-Trichloropropane	110	8.290	8.292	-0.002	73	176259	48.1	
98 trans-1,4-Dichloro-2-butene	53	8.296	8.292	0.004	93	694053	253.9	
99 N-Propylbenzene	91	8.308	8.310	-0.002	95	2294652	46.4	
103 2-Chlorotoluene	126	8.394	8.395	-0.001	97	493437	47.9	
102 1,3,5-Trimethylbenzene	105	8.448	8.450	-0.002	72	1663552	47.9	
105 4-Chlorotoluene	126	8.485	8.481	0.004	95	515999	48.1	
106 tert-Butylbenzene	134	8.716	8.712	0.004	87	386088	47.8	
107 1,2,4-Trimethylbenzene	105	8.759	8.754	0.005	96	1680906	47.4	
109 sec-Butylbenzene	105	8.892	8.888	0.004	94	2128661	48.0	
111 1,3-Dichlorobenzene	146	9.008	9.004	0.004	73	1001656	47.8	
110 4-Isopropyltoluene	119	9.008	9.010	-0.002	94	1781033	47.3	
113 1,4-Dichlorobenzene	146	9.081	9.077	0.004	96	1028128	48.4	
115 n-Butylbenzene	91	9.343	9.344	-0.001	95	1540048	47.6	
116 1,2-Dichlorobenzene	146	9.391	9.387	0.004	97	988391	48.5	
117 1,2-Dibromo-3-Chloropropane	75	10.042	10.038	0.004	87	110736	50.8	
119 1,2,4-Trichlorobenzene	180	10.711	10.713	-0.002	92	577155	49.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
120 Hexachlorobutadiene	225	10.833	10.829	0.004	96	248570	47.7	
121 Naphthalene	128	10.912	10.914	-0.002	97	1155309	49.5	
122 1,2,3-Trichlorobenzene	180	11.107	11.109	-0.002	96	389796	48.0	
S 123 Total BTEX	1				0		286.8	
S 124 Xylenes, Total	1				0		143.6	
S 125 1,2-Dichloroethene, Total	1				0		94.2	
S 126 1,3-Dichloropropene, Total	1				0		98.0	

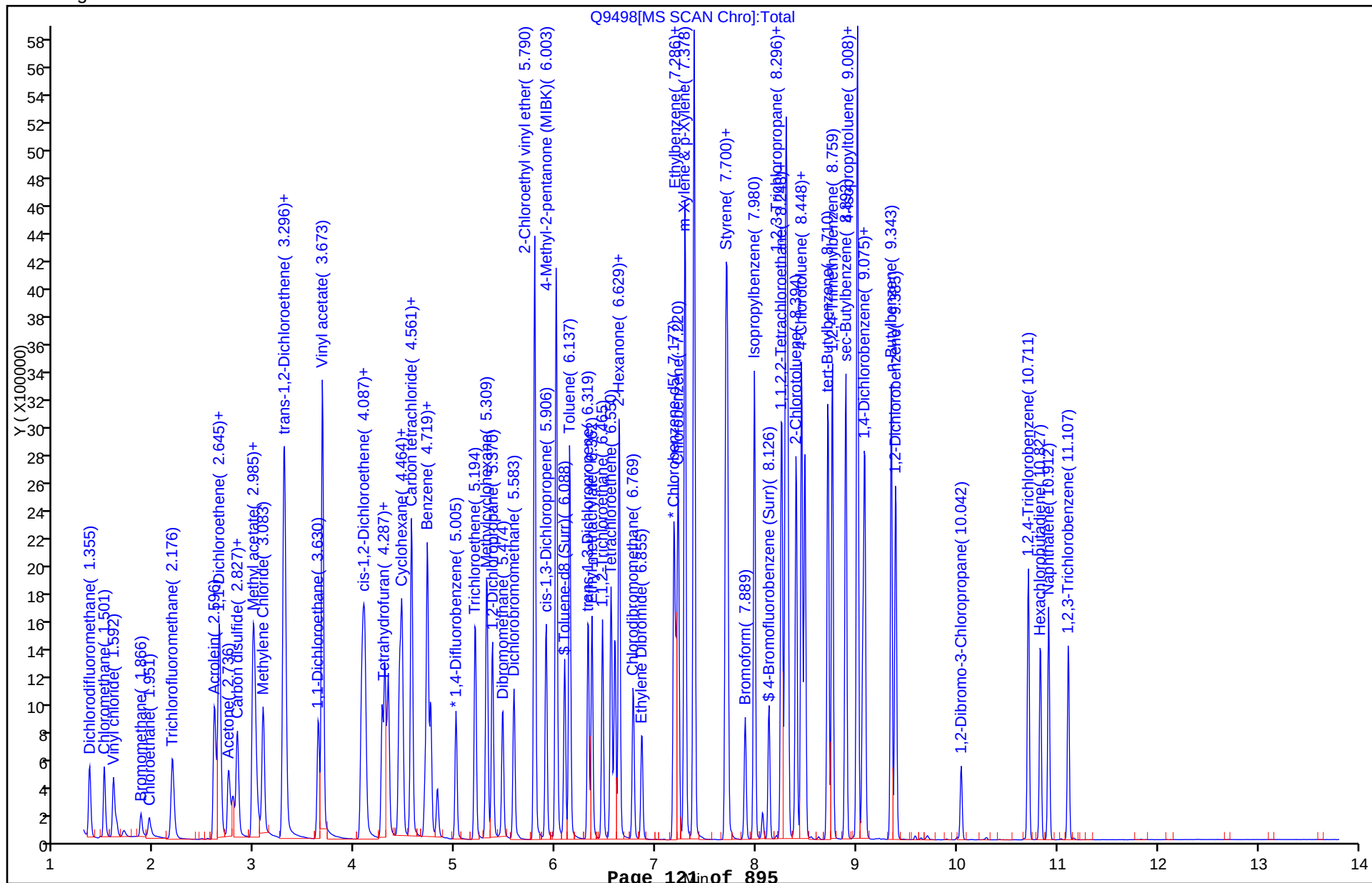
QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9498.D
Injection Date: 25-Jul-2013 15:04:30 Limit Group: MV - 8260B ICAL
Client ID: Instrument ID: HP5973Q
Lims Batch ID: 130641 Lims Sample ID: 6
Operator ID: PJQ Purge Vol: 5.000 mL
Column Type: ZB-624 Column Dia: 0.25 mm
Y Scaling:



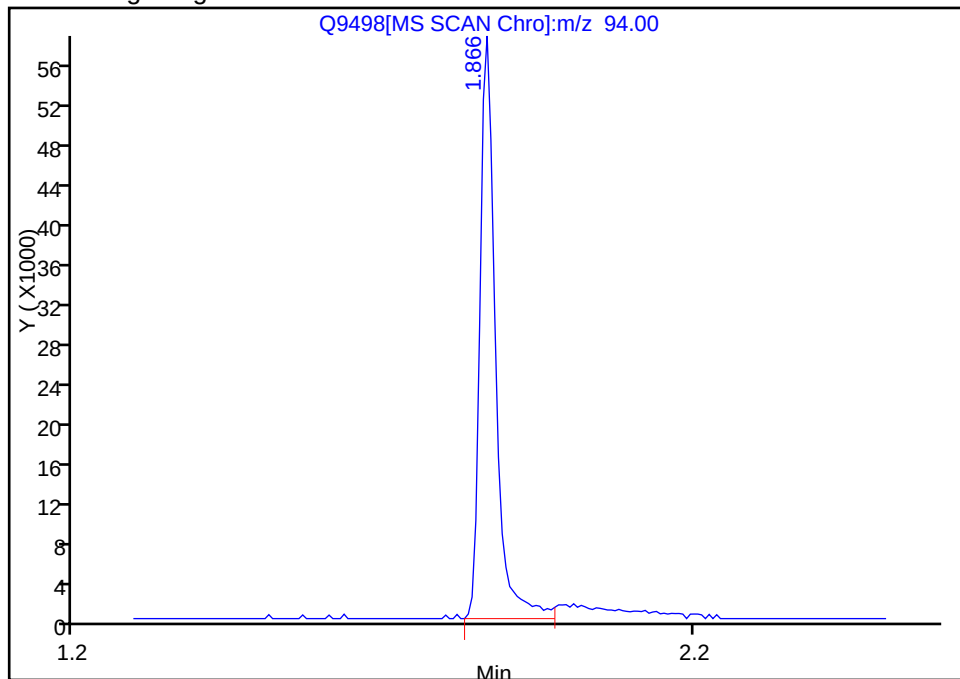
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9498.D		
Injection Date:	25-Jul-2013 15:04:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	130641	Lims Sample ID:	6
Operator ID:	PJQ	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

14 Bromomethane, Signal: 1, m/z: 94.0 Type: quant, RT: 1.87

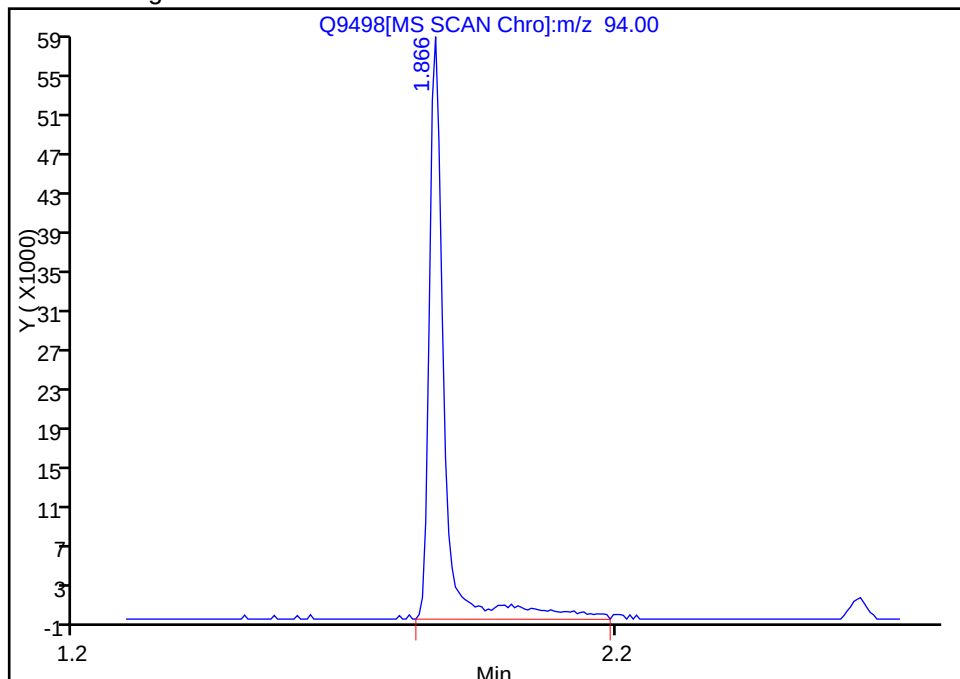
RT: 1.87
Response: 103419
Amount: 50.386682

Processing Integration Results



RT: 1.87
Response: 114555
Amount: 50.069321

Manual Integration Results



Reviewer: BrandtT, 25-Jul-2013 15:33:39
Audit Action: Manually Integrated
Audit Reason: Peak Tail

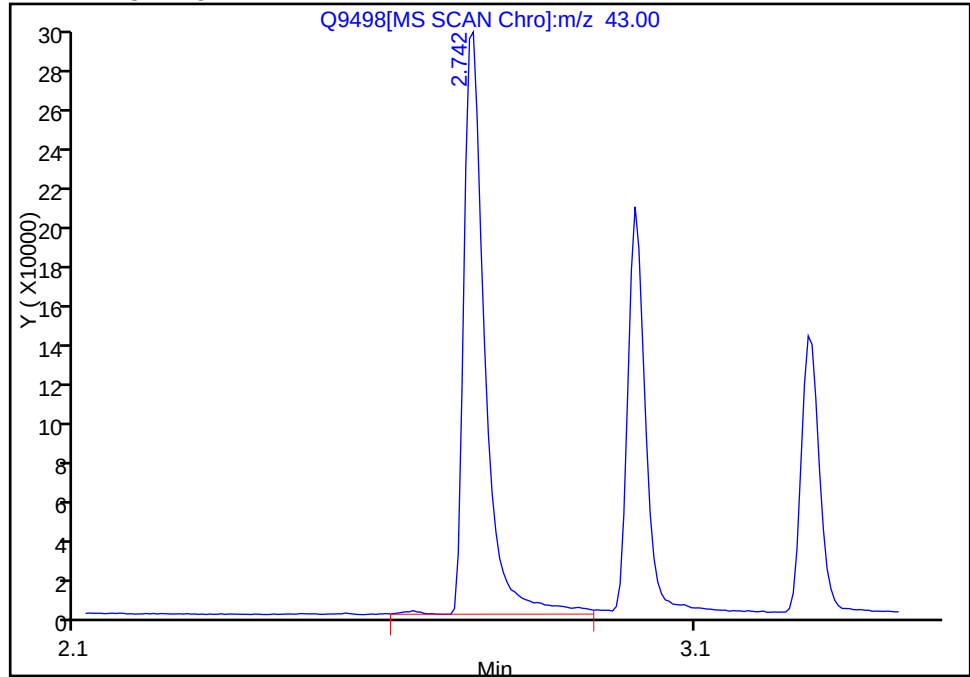
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9498.D		
Injection Date:	25-Jul-2013 15:04:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	130641	Lims Sample ID:	6
Operator ID:	PJQ	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

23 Acetone, Signal: 1, m/z: 43.0 Type: quant, RT: 2.74

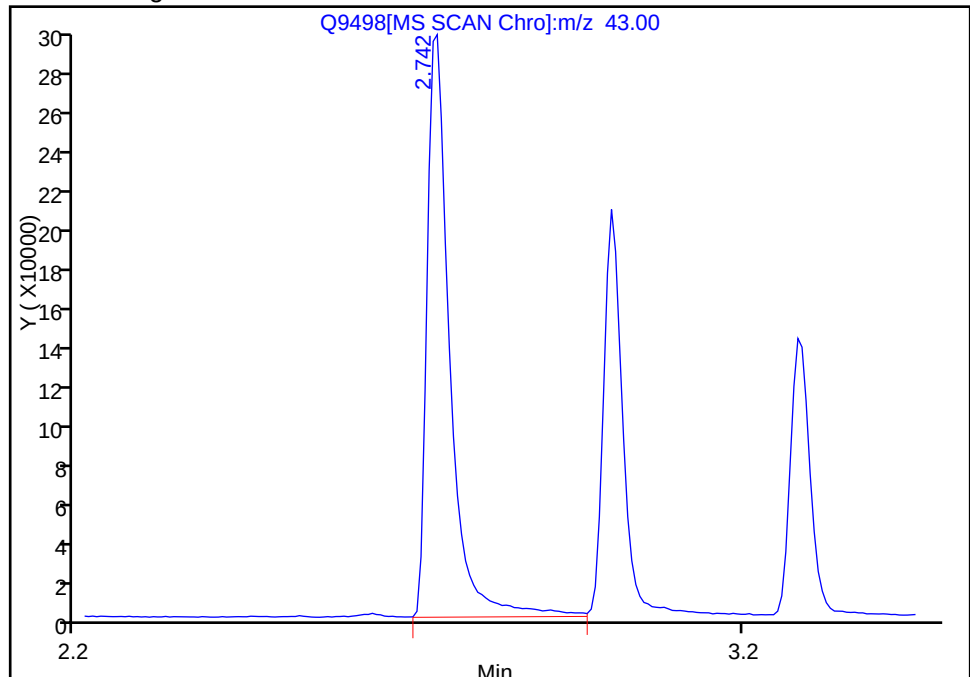
RT: 2.74
Response: 702590
Amount: 234.8203

Processing Integration Results



RT: 2.74
Response: 703406
Amount: 238.5493

Manual Integration Results



Reviewer: BrandtT, 25-Jul-2013 15:32:17
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D
 Lims ID: IC 6 Client ID:
 Inject. Date: 25-Jul-2013 15:31:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 6
 Sample ID: IC 6
 Misc. Info.: 480-0023793-007
 Operator: PJQ Instrument ID: HP5973Q
 Purge Vol: 5.000 mL ALS Bottle#: 29
 Lims Batch ID: 130641 Lims Sample ID: 7
 Sublist: chrom-Q-8260*sub1
 Detector: MS SCAN
 Method: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q-8260.m
 Last Update: 25-Jul-2013 16:48:49 Calib Date: 25-Jul-2013 15:31:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK015

First Level Reviewer: BrandtT

Date: 25-Jul-2013 16:48:49

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.007	5.007	0.0	94	604039	25.0	
* 2 Chlorobenzene-d5	82	7.197	7.197	0.0	87	279523	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.058	9.059	-0.001	93	296419	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.696	4.697	-0.001	91	110874	24.3	
\$ 5 Toluene-d8 (Surr)	98	6.089	6.090	-0.001	91	704837	25.7	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.127	8.128	-0.001	93	236650	25.9	
10 Dichlorodifluoromethane	85	1.350	1.357	-0.007	100	931831	95.9	
12 Chloromethane	50	1.496	1.503	-0.007	88	969581	96.2	
13 Vinyl chloride	62	1.594	1.594	0.0	82	907800	97.9	
14 Bromomethane	94	1.868	1.868	0.0	89	263198	100.0	M
15 Chloroethane	64	1.947	1.953	-0.006	95	254214	97.4	
17 Trichlorofluoromethane	101	2.178	2.184	-0.006	99	1194533	99.6	
20 Acrolein	56	2.598	2.604	-0.006	93	1922067	2103.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.640	2.647	-0.007	79	683746	94.7	
22 1,1-Dichloroethene	96	2.646	2.653	-0.007	88	687544	93.2	
23 Acetone	43	2.737	2.744	-0.007	97	1346514	462.7	
25 Iodomethane	142	2.786	2.786	0.0	98	728441	99.8	
26 Carbon disulfide	76	2.829	2.829	0.0	98	2202521	96.9	
29 Acetonitrile	40	2.987	2.987	0.0	99	2191902	3599.4	
27 Methyl acetate	43	3.005	3.005	0.0	95	797349	98.1	
30 Methylene Chloride	84	3.084	3.085	-0.001	85	791123	93.8	
32 Methyl tert-butyl ether	73	3.285	3.291	-0.006	90	2590255	96.2	
34 trans-1,2-Dichloroethene	96	3.291	3.291	0.0	94	754963	92.3	
33 Acrylonitrile	53	3.303	3.304	-0.001	99	1677042	469.1	
39 1,1-Dichloroethane	63	3.632	3.632	0.0	97	1552085	95.0	
37 Vinyl acetate	43	3.674	3.675	-0.001	97	8130521	462.7	
44 2,2-Dichloropropane	77	4.064	4.070	-0.006	90	1223595	92.3	
45 cis-1,2-Dichloroethene	96	4.082	4.088	-0.006	72	823257	90.2	
43 2-Butanone (MEK)	43	4.100	4.100	0.0	94	1993828	466.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
48 Chlorobromomethane	128	4.271	4.271	-0.001	91	461886	93.9	
49 Tetrahydrofuran	42	4.295	4.301	-0.006	84	1264891	465.8	
50 Chloroform	83	4.331	4.332	-0.001	80	1332142	90.8	
51 1,1,1-Trichloroethane	97	4.441	4.441	0.0	97	1256500	95.1	
52 Cyclohexane	56	4.465	4.466	-0.001	90	1384532	93.3	
55 Carbon tetrachloride	117	4.563	4.563	0.0	82	1124153	95.1	
54 1,1-Dichloropropene	75	4.563	4.563	0.0	96	1041954	91.8	
57 Benzene	78	4.721	4.721	0.0	97	2979200	92.5	
58 1,2-Dichloroethane	62	4.751	4.751	0.0	96	1274705	93.7	
62 Trichloroethene	95	5.195	5.196	-0.001	96	832649	93.2	
64 Methylcyclohexane	83	5.311	5.311	0.0	91	1344262	94.7	
65 1,2-Dichloropropane	63	5.372	5.372	0.0	94	865740	92.4	
67 Dibromomethane	93	5.469	5.469	0.0	90	554120	95.9	
68 Dichlorobromomethane	83	5.585	5.585	0.0	99	1133705	96.4	
69 2-Chloroethyl vinyl ether	63	5.791	5.792	-0.001	88	3089674	463.8	
72 cis-1,3-Dichloropropene	75	5.907	5.901	0.006	90	1397704	94.4	
73 4-Methyl-2-pentanone (MIBK)	43	6.004	6.005	-0.001	92	3929841	459.9	
74 Toluene	92	6.138	6.138	0.0	98	1998475	98.2	
77 trans-1,3-Dichloropropene	75	6.321	6.321	0.0	90	1390881	102.1	
75 Ethyl methacrylate	69	6.363	6.364	-0.001	87	1300843	102.2	
79 1,1,2-Trichloroethane	83	6.467	6.467	0.0	87	638886	97.9	
81 Tetrachloroethene	166	6.552	6.552	0.0	98	914033	97.9	
82 1,3-Dichloropropane	76	6.588	6.589	-0.001	87	1338128	97.3	
80 2-Hexanone	43	6.631	6.631	0.0	91	2828489	466.5	
83 Chlorodibromomethane	129	6.771	6.771	0.0	91	1004239	105.6	
84 Ethylene Dibromide	107	6.856	6.856	0.0	99	880334	100.7	
87 Chlorobenzene	112	7.221	7.221	0.0	88	2311546	97.8	
89 1,1,1,2-Tetrachloroethane	131	7.288	7.282	0.006	90	849985	98.8	
88 Ethylbenzene	91	7.288	7.288	0.0	98	3502789	91.6	
90 m-Xylene & p-Xylene	106	7.379	7.379	0.0	96	2935458	190.5	
91 o-Xylene	106	7.696	7.696	0.0	95	1544343	98.1	
92 Styrene	104	7.714	7.708	0.006	95	2559462	97.5	
95 Bromoform	173	7.890	7.891	0.0	98	725876	110.2	
94 Isopropylbenzene	105	7.981	7.982	-0.001	95	3847555	95.7	
101 Bromobenzene	156	8.249	8.249	0.0	90	1069275	97.5	
97 1,1,2,2-Tetrachloroethane	83	8.255	8.256	-0.001	87	1063708	92.7	
100 1,2,3-Trichloropropane	110	8.292	8.292	0.0	73	325677	92.8	
98 trans-1,4-Dichloro-2-butene	53	8.298	8.292	0.006	87	1202761	460.0	
99 N-Propylbenzene	91	8.316	8.310	0.006	94	4266007	90.2	
103 2-Chlorotoluene	126	8.401	8.395	0.006	97	934815	94.9	
102 1,3,5-Trimethylbenzene	105	8.450	8.450	0.0	73	3098093	93.3	
105 4-Chlorotoluene	126	8.486	8.481	0.005	95	972852	94.9	
106 tert-Butylbenzene	134	8.718	8.712	0.006	85	748549	96.9	
107 1,2,4-Trimethylbenzene	105	8.760	8.754	0.006	96	3139188	92.5	
109 sec-Butylbenzene	105	8.894	8.888	0.006	93	4065365	95.9	
111 1,3-Dichlorobenzene	146	9.010	9.004	0.006	71	1920686	95.9	
110 4-Isopropyltoluene	119	9.010	9.010	0.0	94	3415626	94.8	
113 1,4-Dichlorobenzene	146	9.083	9.077	0.006	96	1956431	96.3	
115 n-Butylbenzene	91	9.344	9.344	0.0	94	2953872	95.4	
116 1,2-Dichlorobenzene	146	9.387	9.387	0.0	97	1866862	95.9	
117 1,2-Dibromo-3-Chloropropane	75	10.038	10.038	0.0	87	215872	103.6	
119 1,2,4-Trichlorobenzene	180	10.713	10.713	0.0	90	1129113	100.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
120 Hexachlorobutadiene	225	10.828	10.829	-0.001	98	489263	98.1	
121 Naphthalene	128	10.914	10.914	0.0	97	2281376	102.1	
122 1,2,3-Trichlorobenzene	180	11.108	11.109	-0.001	93	784171	101.0	
S 123 Total BTEX	1				0		571.0	
S 124 Xylenes, Total	1				0		288.7	
S 125 1,2-Dichloroethene, Total	1				0		182.5	
S 126 1,3-Dichloropropene, Total	1				0		196.5	

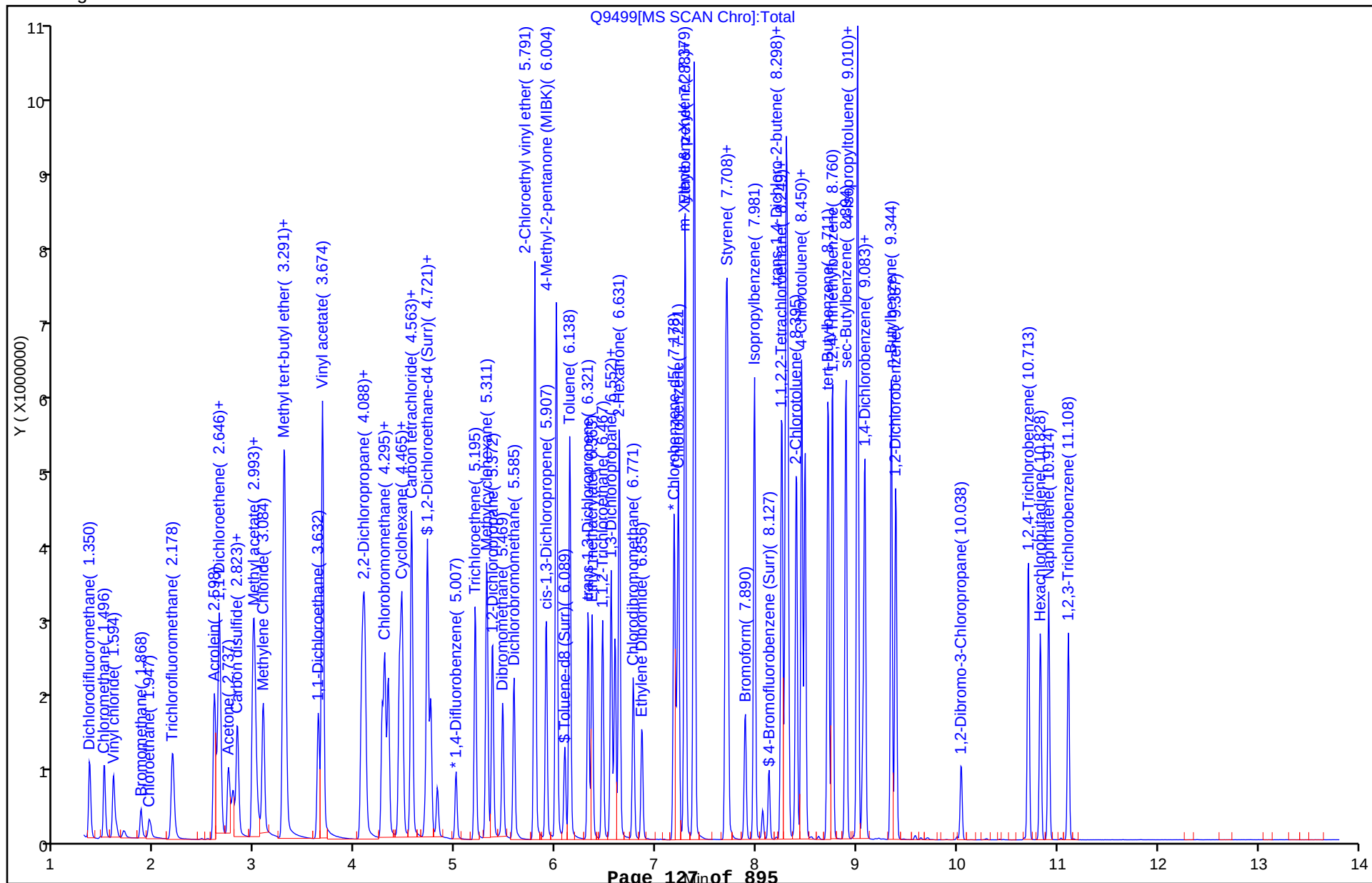
QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D
Injection Date: 25-Jul-2013 15:31:30 Limit Group: MV - 8260B ICAL
Client ID: Instrument ID: HP5973Q
Lims Batch ID: 130641 Lims Sample ID: 7
Operator ID: PJQ Purge Vol: 5.000 mL
Column Type: ZB-624 Column Dia: 0.25 mm
Y Scaling:



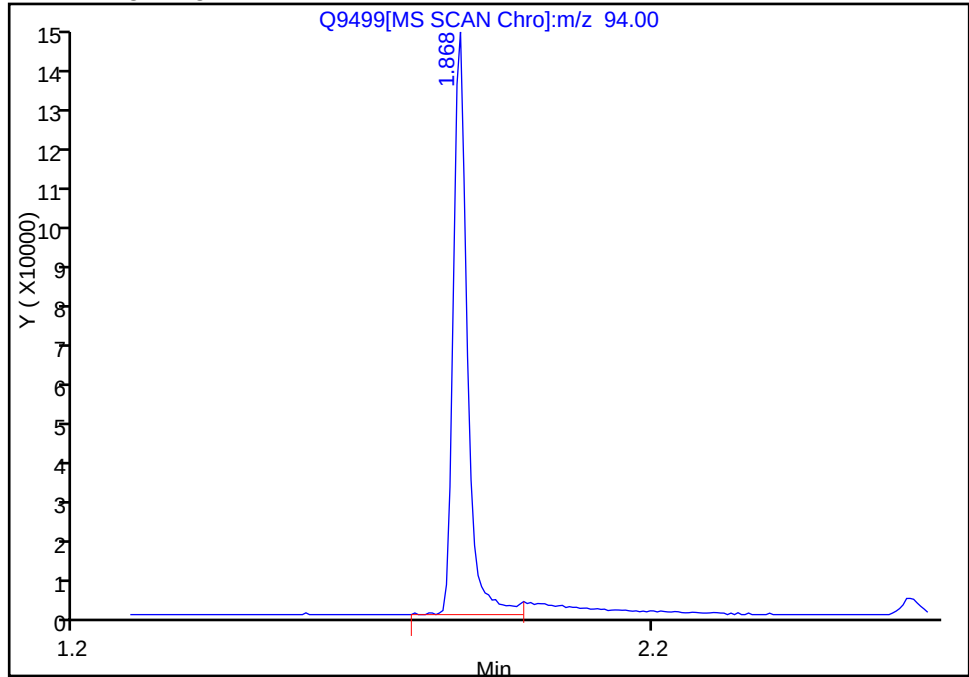
TestAmerica Buffalo

Data File:	\\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D		
Injection Date:	25-Jul-2013 15:31:30	Limit Group:	MV - 8260B ICAL
Client ID:		Instrument ID:	HP5973Q
Lims Batch ID:	130641	Lims Sample ID:	7
Operator ID:	PJQ	Purge Vol:	5.000 mL
Column Type:	ZB-624	Column Dia:	0.25 mm

14 Bromomethane, Signal: 1, m/z: 94.0 Type: quant, RT: 1.87

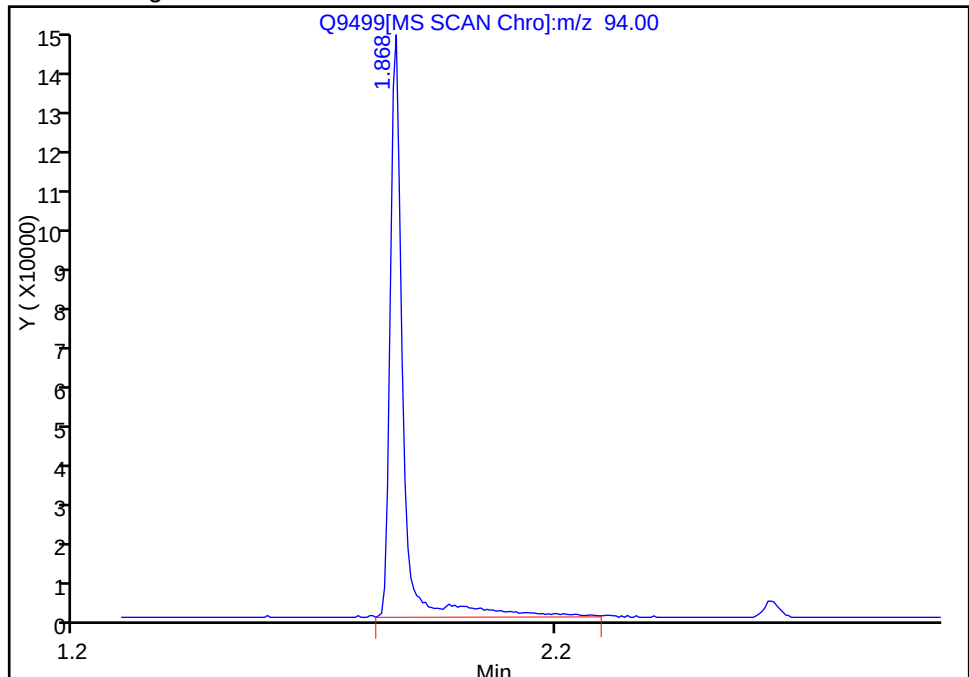
RT: 1.87
Response: 240600
Amount: 99.914404

Processing Integration Results



RT: 1.87
Response: 263198
Amount: 99.9932

Manual Integration Results



Reviewer: BrandtT, 25-Jul-2013 16:29:25
Audit Action: Manually Integrated
Audit Reason: Peak Tail

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Lab Sample ID: CCVIS 480-138961/2 Calibration Date: 09/13/2013 13:34

Instrument ID: HP5973Q Calib Start Date: 07/25/2013 13:13

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 07/25/2013 15:31

Lab File ID: Q0463.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.4020	0.2913		18.1	25.0	-27.5	50.0
Chloromethane	Ave	0.4172	0.4006	0.1000	24.0	25.0	-4.0	50.0
Vinyl chloride	Ave	0.3839	0.3520		22.9	25.0	-8.3	20.0
Bromomethane	Qua		0.0386		11.1	25.0	-55.6*	50.0
Chloroethane	Ave	0.1080	0.2278		52.7	25.0	110.9*	50.0
Trichlorofluoromethane	Ave	0.4964	0.4833		24.3	25.0	-2.7	50.0
Acrolein	Ave	0.0378	0.0354		468	500	-6.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2989	0.2480		20.7	25.0	-17.0	50.0
1,1-Dichloroethene	Ave	0.3052	0.3029	0.1000	24.8	25.0	-0.8	20.0
Acetone	Ave	0.1204	0.1128		117	125	-6.3	50.0
Iodomethane	Qua		0.0523		8.16	25.0	-67.4*	50.0
Carbon disulfide	Ave	0.9411	0.7581		20.1	25.0	-19.4	50.0
Acetonitrile	Ave	0.0252	0.0255		1010	1000	1.1	50.0
Methyl acetate	Ave	0.3364	0.3290		24.4	25.0	-2.2	50.0
Methylene Chloride	Ave	0.3489	0.3447		24.7	25.0	-1.2	50.0
Methyl tert-butyl ether	Ave	1.114	0.997		22.4	25.0	-10.5	50.0
trans-1,2-Dichloroethene	Ave	0.3384	0.3359		24.8	25.0	-0.8	50.0
Acrylonitrile	Ave	0.1480	0.1524		129	125	3.0	50.0
1,1-Dichloroethane	Ave	0.6759	0.7091		26.2	25.0	4.9	50.0
Vinyl acetate	Ave	0.7273	0.6970		120	125	-4.2	50.0
2,2-Dichloropropane	Ave	0.5486	0.4204		19.2	25.0	-23.4	50.0
cis-1,2-Dichloroethene	Ave	0.3777	0.3885		25.7	25.0	2.8	50.0
2-Butanone (MEK)	Ave	0.1771	0.1771		125	125	0.0	50.0
Bromochloromethane	Ave	0.2036	0.1943		23.9	25.0	-4.6	50.0
Tetrahydrofuran	Ave	0.1124	0.1156		129	125	2.8	50.0
Chloroform	Ave	0.6074	0.5863		24.1	25.0	-3.5	20.0
1,1,1-Trichloroethane	Ave	0.5468	0.4804		22.0	25.0	-12.1	50.0
Cyclohexane	Ave	0.6143	0.5304		21.6	25.0	-13.7	50.0
Carbon tetrachloride	Ave	0.4894	0.3739		19.1	25.0	-23.6	50.0
1,1-Dichloropropene	Ave	0.4699	0.4723		25.1	25.0	0.5	50.0
Benzene	Ave	1.333	1.352		25.3	25.0	1.4	50.0
1,2-Dichloroethane	Ave	0.5633	0.5274		23.4	25.0	-6.4	50.0
Trichloroethene	Ave	0.3699	0.3579		24.2	25.0	-3.2	50.0
Methylcyclohexane	Ave	0.5874	0.4591		19.5	25.0	-21.8	50.0
1,2-Dichloropropane	Ave	0.3878	0.4196		27.0	25.0	8.2	20.0
Dibromomethane	Ave	0.2392	0.2312		24.2	25.0	-3.3	50.0
Bromodichloromethane	Ave	0.4866	0.4486		23.0	25.0	-7.8	50.0
2-Chloroethyl vinyl ether	Ave	0.2757	0.2443		111	125	-11.4	50.0
cis-1,3-Dichloropropene	Ave	0.6129	0.5647		23.0	25.0	-7.9	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7643	0.7561		124	125	-1.1	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Lab Sample ID: CCVIS 480-138961/2 Calibration Date: 09/13/2013 13:34

Instrument ID: HP5973Q Calib Start Date: 07/25/2013 13:13

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 07/25/2013 15:31

Lab File ID: Q0463.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene	Ave	1.820	1.716		23.6	25.0	-5.7	20.0
trans-1,3-Dichloropropene	Ave	1.218	1.014		20.8	25.0	-16.8	50.0
Ethyl methacrylate	Ave	1.138	0.9593		21.1	25.0	-15.7	50.0
1,1,2-Trichloroethane	Ave	0.5839	0.5567		23.8	25.0	-4.7	50.0
Tetrachloroethene	Ave	0.8349	0.7188		21.5	25.0	-13.9	50.0
1,3-Dichloropropane	Ave	1.230	1.191		24.2	25.0	-3.2	50.0
2-Hexanone	Ave	0.5422	0.5295		122	125	-2.3	50.0
Dibromochloromethane	Ave	0.8508	0.7155		21.0	25.0	-15.9	50.0
1,2-Dibromoethane	Ave	0.7817	0.7161		22.9	25.0	-8.4	50.0
Chlorobenzene	Ave	2.114	1.992	0.3000	23.6	25.0	-5.8	50.0
1,1,1,2-Tetrachloroethane	Ave	0.7698	0.6443		20.9	25.0	-16.3	50.0
Ethylbenzene	Ave	3.419	3.256		23.8	25.0	-4.8	20.0
m,p-Xylene	Ave	1.378	1.299		47.1	50.0	-5.7	50.0
o-Xylene	Ave	1.407	1.315		23.4	25.0	-6.6	50.0
Styrene	Ave	2.347	2.199		23.4	25.0	-6.3	50.0
Bromoform	Ave	0.5889	0.4402	0.1000	18.7	25.0	-25.3	50.0
Isopropylbenzene	Ave	3.391	3.445		25.4	25.0	1.6	50.0
Bromobenzene	Ave	0.9253	0.8919		24.1	25.0	-3.6	50.0
1,1,2,2-Tetrachloroethane	Ave	0.9679	0.9611	0.3000	24.8	25.0	-0.7	50.0
1,2,3-Trichloropropane	Ave	0.2958	0.2911		24.6	25.0	-1.6	50.0
trans-1,4-Dichloro-2-butene	Ave	0.2205	0.2065		117	125	-6.4	50.0
N-Propylbenzene	Ave	3.988	4.075		25.5	25.0	2.2	50.0
2-Chlorotoluene	Ave	0.8307	0.8241		24.8	25.0	-0.8	50.0
1,3,5-Trimethylbenzene	Ave	2.800	2.776		24.8	25.0	-0.8	50.0
4-Chlorotoluene	Ave	0.8648	0.8581		24.8	25.0	-0.8	50.0
tert-Butylbenzene	Ave	0.6518	0.6228		23.9	25.0	-4.5	50.0
1,2,4-Trimethylbenzene	Ave	2.863	2.817		24.6	25.0	-1.6	50.0
sec-Butylbenzene	Ave	3.575	3.575		25.0	25.0	0.0	50.0
1,3-Dichlorobenzene	Ave	1.690	1.632		24.2	25.0	-3.4	50.0
4-Isopropyltoluene	Ave	3.040	2.980		24.5	25.0	-2.0	50.0
1,4-Dichlorobenzene	Ave	1.713	1.653		24.1	25.0	-3.5	50.0
n-Butylbenzene	Ave	2.610	2.547		24.4	25.0	-2.4	50.0
1,2-Dichlorobenzene	Ave	1.643	1.587		24.2	25.0	-3.4	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1757	0.1499		21.3	25.0	-14.7	50.0
1,2,4-Trichlorobenzene	Ave	0.9497	0.7620		20.1	25.0	-19.8	50.0
Hexachlorobutadiene	Ave	0.4208	0.3421		20.3	25.0	-18.7	50.0
Naphthalene	Ave	1.885	1.614		21.4	25.0	-14.3	50.0
1,2,3-Trichlorobenzene	Ave	0.6547	0.4803		18.3	25.0	-26.6	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.1891	0.1817		24.0	25.0	-3.9	50.0
Toluene-d8 (Surr)	Ave	2.451	2.338		23.8	25.0	-4.6	50.0
4-Bromofluorobenzene (Surr)	Ave	0.8169	0.7521		23.0	25.0	-7.9	50.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0463.D
 Lims ID: CCVIS Client ID:
 Inject. Date: 13-Sep-2013 13:34:30 Dil. Factor: 1.0000
 Sample Type: CCVIS
 Sample ID: CCVIS
 Misc. Info.: 480-0025207-002
 Operator: TRB Instrument ID: HP5973Q
 Purge Vol: 5.000 mL ALS Bottle#: 2
 Lims Batch ID: 138961 Lims Sample ID: 2
 Sublist: chrom-Q-8260*sub1
 Detector: MS SCAN
 Method: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q-8260.m
 Last Update: 13-Sep-2013 13:55:44 Calib Date: 25-Jul-2013 15:31:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK035

First Level Reviewer: BrandtT

Date: 13-Sep-2013 13:55:44

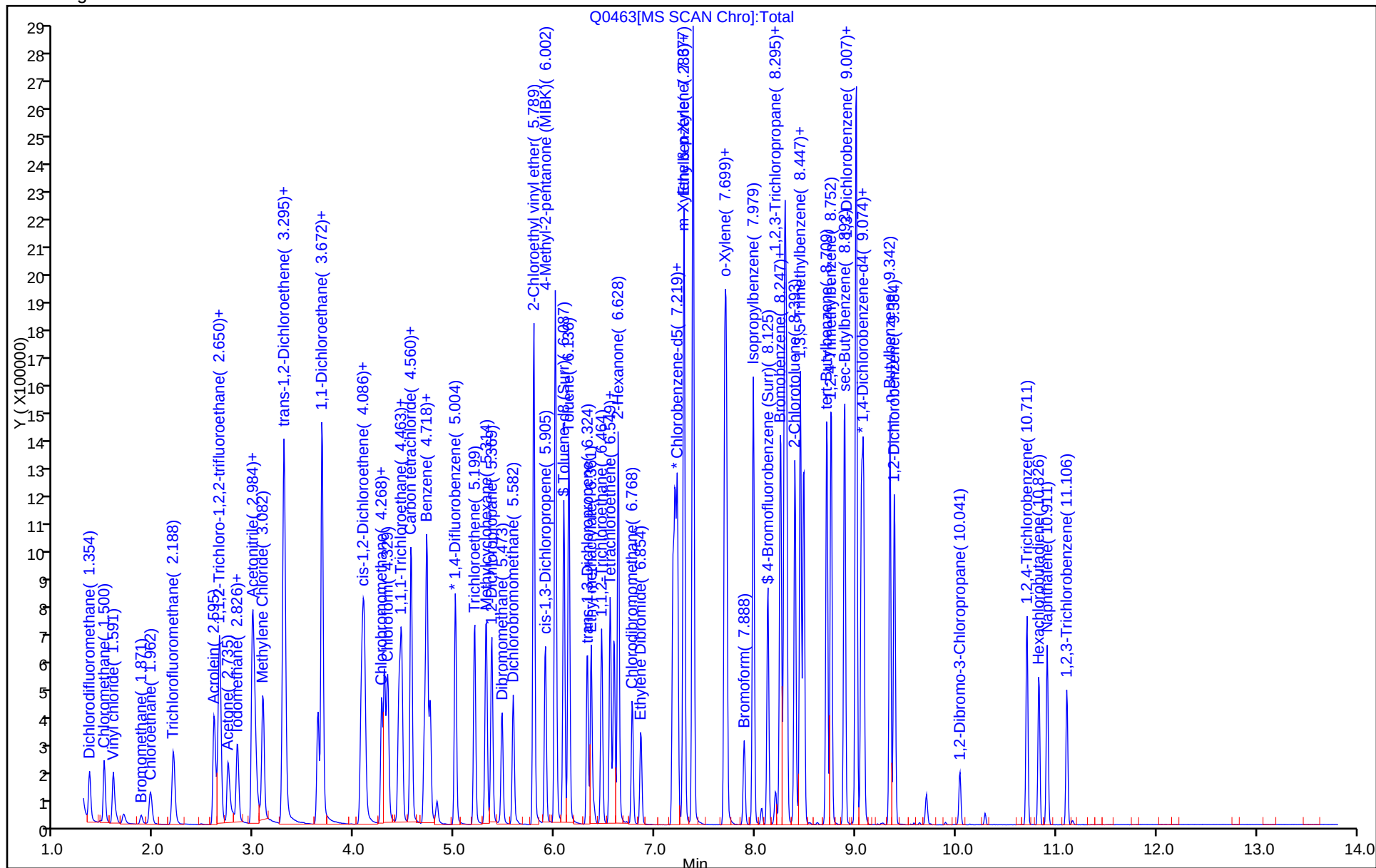
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.004	5.004	0.0	95	539454	25.0	
* 2 Chlorobenzene-d5	82	7.194	7.194	0.0	87	274230	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.056	9.056	0.0	82	265710	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.694	4.694	0.0	89	98038	24.0	
\$ 5 Toluene-d8 (Surr)	98	6.087	6.087	0.0	92	641105	23.8	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.125	8.125	0.0	90	206251	23.0	
10 Dichlorodifluoromethane	85	1.354	1.354	0.0	87	157148	18.1	
12 Chloromethane	50	1.500	1.500	0.0	89	216106	24.0	
13 Vinyl chloride	62	1.591	1.591	0.0	97	189881	22.9	
14 Bromomethane	94	1.871	1.871	0.0	90	20818	11.1	
15 Chloroethane	64	1.962	1.962	0.0	95	122863	52.7	
17 Trichlorofluoromethane	101	2.188	2.188	0.0	96	260698	24.3	
20 Acrolein	56	2.595	2.595	0.0	95	381919	468.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.650	2.650	0.0	81	133758	20.7	
22 1,1-Dichloroethene	96	2.656	2.656	0.0	87	163377	24.8	
23 Acetone	43	2.735	2.735	0.0	99	304251	117.1	
25 Iodomethane	142	2.790	2.790	0.0	96	28218	8.16	
26 Carbon disulfide	76	2.832	2.832	0.0	99	408960	20.1	
29 Acetonitrile	40	2.978	2.978	0.0	99	549945	1011.2	
27 Methyl acetate	43	3.003	3.003	0.0	96	177499	24.4	
30 Methylene Chloride	84	3.082	3.082	0.0	89	185955	24.7	
32 Methyl tert-butyl ether	73	3.289	3.289	0.0	90	537952	22.4	
34 trans-1,2-Dichloroethene	96	3.295	3.295	0.0	94	181177	24.8	
33 Acrylonitrile	53	3.301	3.301	0.0	99	411166	128.8	
39 1,1-Dichloroethane	63	3.635	3.635	0.0	85	382518	26.2	
37 Vinyl acetate	43	3.672	3.672	0.0	97	1880031	119.8	
44 2,2-Dichloropropane	77	4.067	4.067	0.0	88	226773	19.2	
45 cis-1,2-Dichloroethene	96	4.086	4.086	0.0	84	209581	25.7	
43 2-Butanone (MEK)	43	4.104	4.104	0.0	95	477749	125.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
48 Chlorobromomethane	128	4.268	4.268	0.0	94	104816	23.9	
49 Tetrahydrofuran	42	4.299	4.299	0.0	89	311674	128.5	
50 Chloroform	83	4.329	4.329	0.0	81	316292	24.1	
51 1,1,1-Trichloroethane	97	4.445	4.445	0.0	94	259166	22.0	
52 Cyclohexane	56	4.469	4.469	0.0	91	286124	21.6	
55 Carbon tetrachloride	117	4.560	4.560	0.0	85	201697	19.1	
54 1,1-Dichloropropene	75	4.566	4.566	0.0	96	254797	25.1	
57 Benzene	78	4.718	4.718	0.0	97	729098	25.3	
58 1,2-Dichloroethane	62	4.755	4.755	0.0	89	284497	23.4	
62 Trichloroethene	95	5.199	5.199	0.0	93	193086	24.2	
64 Methylcyclohexane	83	5.314	5.314	0.0	92	247657	19.5	
65 1,2-Dichloropropane	63	5.369	5.369	0.0	96	226368	27.0	
67 Dibromomethane	93	5.473	5.473	0.0	90	124738	24.2	
68 Dichlorobromomethane	83	5.582	5.582	0.0	93	242003	23.0	
69 2-Chloroethyl vinyl ether	63	5.789	5.789	0.0	90	658804	110.7	
72 cis-1,3-Dichloropropene	75	5.905	5.905	0.0	90	304612	23.0	
73 4-Methyl-2-pentanone (MIBK)	43	6.002	6.002	0.0	95	1036711	123.7	
74 Toluene	92	6.136	6.136	0.0	97	470694	23.6	
77 trans-1,3-Dichloropropene	75	6.324	6.324	0.0	93	277957	20.8	
75 Ethyl methacrylate	69	6.361	6.361	0.0	89	263076	21.1	
79 1,1,2-Trichloroethane	83	6.464	6.464	0.0	86	152673	23.8	
81 Tetrachloroethene	166	6.549	6.549	0.0	91	197128	21.5	
82 1,3-Dichloropropane	76	6.586	6.586	0.0	89	326733	24.2	
80 2-Hexanone	43	6.628	6.628	0.0	94	726039	122.1	
83 Chlorodibromomethane	129	6.768	6.768	0.0	90	196202	21.0	
84 Ethylene Dibromide	107	6.854	6.854	0.0	99	196367	22.9	
87 Chlorobenzene	112	7.219	7.219	0.0	89	546378	23.6	
89 1,1,1,2-Tetrachloroethane	131	7.286	7.286	0.0	88	176678	20.9	
88 Ethylbenzene	91	7.286	7.286	0.0	98	892937	23.8	
90 m-Xylene & p-Xylene	106	7.377	7.377	0.0	98	712479	47.1	
91 o-Xylene	106	7.693	7.693	0.0	96	360574	23.4	
92 Styrene	104	7.711	7.711	0.0	96	603164	23.4	
95 Bromoform	173	7.888	7.888	0.0	97	120719	18.7	
94 Isopropylbenzene	105	7.979	7.979	0.0	95	915238	25.4	
101 Bromobenzene	156	8.247	8.247	0.0	95	236975	24.1	
97 1,1,2,2-Tetrachloroethane	83	8.253	8.253	0.0	83	255385	24.8	
98 trans-1,4-Dichloro-2-butene	53	8.289	8.289	0.0	83	274371	117.1	
100 1,2,3-Trichloropropane	110	8.289	8.289	0.0	71	77357	24.6	
99 N-Propylbenzene	91	8.308	8.308	0.0	94	1082849	25.5	
103 2-Chlorotoluene	126	8.393	8.393	0.0	96	218974	24.8	
102 1,3,5-Trimethylbenzene	105	8.447	8.447	0.0	74	737658	24.8	
105 4-Chlorotoluene	126	8.484	8.484	0.0	96	228017	24.8	
106 tert-Butylbenzene	134	8.709	8.709	0.0	86	165475	23.9	
107 1,2,4-Trimethylbenzene	105	8.752	8.752	0.0	96	748626	24.6	
109 sec-Butylbenzene	105	8.892	8.892	0.0	93	949906	25.0	
110 4-Isopropyltoluene	119	9.007	9.007	0.0	97	791742	24.5	
111 1,3-Dichlorobenzene	146	9.007	9.007	0.0	73	433725	24.2	
113 1,4-Dichlorobenzene	146	9.080	9.080	0.0	96	439126	24.1	
115 n-Butylbenzene	91	9.342	9.342	0.0	95	676775	24.4	
116 1,2-Dichlorobenzene	146	9.384	9.384	0.0	96	421789	24.2	
117 1,2-Dibromo-3-Chloropropane	75	10.041	10.041	0.0	78	39827	21.3	
119 1,2,4-Trichlorobenzene	180	10.711	10.711	0.0	94	202469	20.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
120 Hexachlorobutadiene	225	10.826	10.826	0.0	95	90894	20.3	
121 Naphthalene	128	10.911	10.911	0.0	97	428940	21.4	
122 1,2,3-Trichlorobenzene	180	11.106	11.106	0.0	94	127631	18.3	
S 123 Total BTEX	1				0		143.2	
S 124 Xylenes, Total	1				0		70.5	
S 125 1,2-Dichloroethene, Total	1				0		50.5	
S 126 1,3-Dichloropropene, Total	1				0		43.8	

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0463.D
Injection Date: 13-Sep-2013 13:34:30 Limit Group: MV - 8260B ICAL
Client ID: Instrument ID: HP5973Q
Lims Batch ID: 138961 Lims Sample ID: 2
Operator ID: TRB Purge Vol: 5.000 mL
Column Type: ZB-624 Column Dia: 0.25 mm
Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9492.D
Lims ID: BFB Client ID:
Inject. Date: 25-Jul-2013 12:21:30 Dil. Factor: 1.0000
Sample Type: BFB
Sample ID: BFB
Misc. Info.: 480-0023793-001
Operator: PJQ Instrument ID: HP5973Q
Purge Vol: 5.000 mL ALS Bottle#: 22
Lims Batch ID: 130641 Lims Sample ID: 1
Detector: MS SCAN

Method: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q-8260.m
Last Update: 25-Jul-2013 13:10:38 Calib Date: 25-Jul-2013 12:45:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9493.D
Limit Group: MV - 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: ZB-624 Column Dia: 0.25 mm
Process Host: XAWRK008

First Level Reviewer: quirkp

Date: 25-Jul-2013 13:10:38

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags

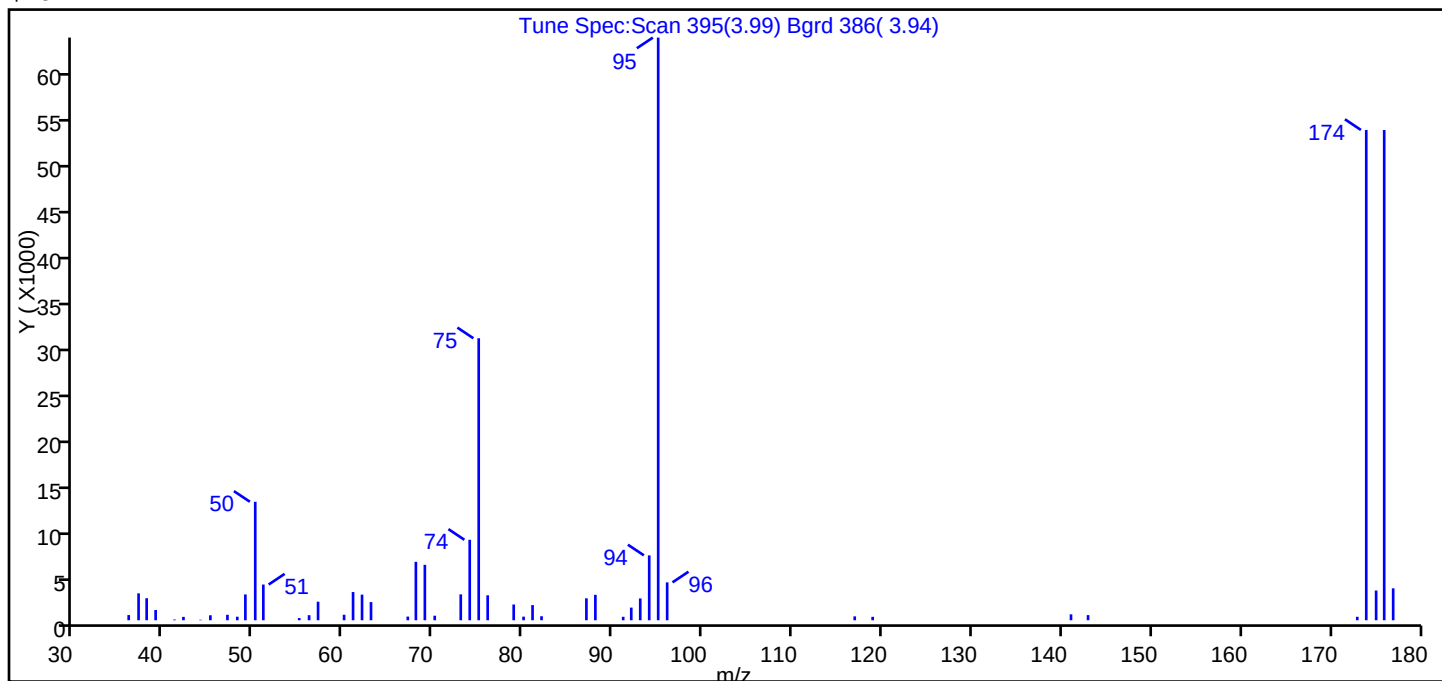
\$ 61 BFB

95 3.991 3.991 0.0 0 137277 0

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9492.D
Injection Date: 25-Jul-2013 12:21:30 Limit Group: MV - 8260B ICAL
Client ID: Instrument ID: HP5973Q
Lims Batch ID: 130641 Lims Sample ID: 1
Operator ID: PJQ Purge Vol: 5.000 mL
Column Type: ZB-624 Column Dia: 0.25 mm
Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.33
75	30.00 - 60.00% of mass 95	48.40
96	5.00 - 9.00% of mass 95	6.50
173	Less than 2.00% of mass 174	0.60 (0.71)
174	Greater than 50.00% of mass 95	84.15
175	5.00 - 9.00% of mass 174	5.10 (6.07)
176	95.00 - 101.00% of mass 174	84.14 (99.99)
177	5.00 - 9.00% of mass 176	5.48 (6.51)

Data File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9492.D\Q-8260.rslt\spectra.d
Injection Date: 25-Jul-2013 12:21:30
Spectrum: Tune Spec:Scan 395(3.99) Bgrd 386(3.94)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 49

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	567	55.00	240	75.00	30824	96.00	4141
37.10	2939	56.10	554	76.00	2725	116.90	423
38.00	2409	57.10	2030	78.90	1722	118.90	374
39.00	1125	60.00	602	80.00	395	141.00	646
41.10	78	61.00	3083	81.00	1659	142.90	563
42.10	370	62.00	2800	82.00	439	172.90	379
44.00	54	63.00	1985	87.00	2400	173.90	53592
45.10	545	67.10	401	88.00	2780	175.00	3251
47.00	599	68.00	6386	91.10	379	175.90	53584
48.10	385	69.00	6061	92.00	1383	176.90	3488
49.00	2822	70.10	498	93.00	2385		
50.10	12950	73.00	2830	94.00	7094		
51.00	3904	74.00	8795	95.00	63688		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0462.D
Lims ID: BFB Client ID:
Inject. Date: 13-Sep-2013 13:11:30 Dil. Factor: 1.0000
Sample Type: BFB
Sample ID: BFB
Misc. Info.: 480-0025207-001
Operator: TRB Instrument ID: HP5973Q
Purge Vol: 5.000 mL ALS Bottle#: 1
Lims Batch ID: 138961 Lims Sample ID: 1
Detector: MS SCAN

Method: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q-8260.m
Last Update: 13-Sep-2013 13:21:46 Calib Date: 25-Jul-2013 15:31:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D
Limit Group: MV - 8260B ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: ZB-624 Column Dia: 0.25 mm
Process Host: XAWRK035

First Level Reviewer: BrandtT

Date: 13-Sep-2013 13:21:46

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags

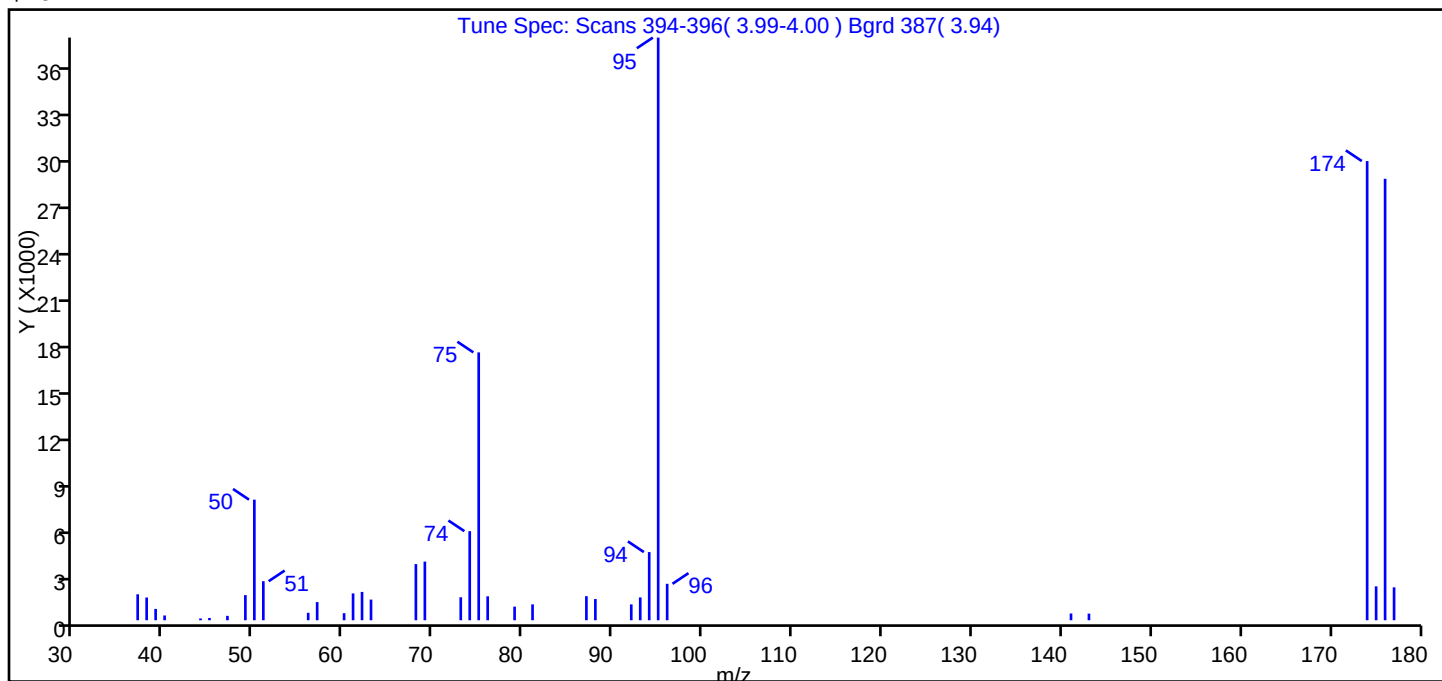
\$ 61 BFB

95 3.991 3.991 0.0 0 93841 0

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0462.D
Injection Date: 13-Sep-2013 13:11:30 Limit Group: MV - 8260B ICAL
Client ID: Instrument ID: HP5973Q
Lims Batch ID: 138961 Lims Sample ID: 1
Operator ID: TRB Purge Vol: 5.000 mL
Column Type: ZB-624 Column Dia: 0.25 mm
Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.70
75	30.00 - 60.00% of mass 95	45.97
96	5.00 - 9.00% of mass 95	6.25
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	78.81
175	5.00 - 9.00% of mass 174	5.82 (7.38)
176	95.00 - 101.00% of mass 174	75.77 (96.14)
177	5.00 - 9.00% of mass 176	5.65 (7.45)

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0462.D\Q-8260.rslt\spectra.d

Injection Date: 13-Sep-2013 13:11:30

Spectrum: Tune Spec: Scans 394-396(3.99-4.00) Bgrd 387(3.94)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 37

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1677	56.00	482	75.00	17304	96.00	2354
38.00	1469	57.00	1173	76.00	1546	141.00	438
39.00	733	60.00	456	79.00	880	143.00	431
40.00	308	61.00	1734	81.00	1027	174.00	29664
44.00	117	62.00	1830	87.00	1555	175.00	2190
45.00	147	63.00	1336	88.00	1370	176.00	28520
47.00	285	68.00	3629	92.00	1026	177.00	2126
49.00	1624	69.00	3791	93.00	1475		
50.00	7791	73.00	1485	94.00	4404		
51.00	2521	74.00	5755	95.00	37640		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-138961/4

Matrix: Water Lab File ID: Q0465.D

Analysis Method: 8260B Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 09/13/2013 14:37

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 138961 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
71-43-2	Benzene	ND		1.0	0.41
108-90-7	Chlorobenzene	ND		1.0	0.75
100-41-4	Ethylbenzene	ND		1.0	0.74
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		66-137
2037-26-5	Toluene-d8 (Surr)	94		71-126
460-00-4	4-Bromofluorobenzene (Surr)	89		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0465.D
 Lims ID: MB Client ID:
 Inject. Date: 13-Sep-2013 14:37:30 Dil. Factor: 1.0000
 Sample Type: MB
 Sample ID: MB
 Misc. Info.: 480-0025207-004
 Operator: TRB Instrument ID: HP5973Q
 Purge Vol: 5.000 mL ALS Bottle#: 4
 Lims Batch ID: 138961 Lims Sample ID: 4
 Detector: MS SCAN
 Method: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q-8260.m
 Last Update: 13-Sep-2013 14:55:37 Calib Date: 25-Jul-2013 15:31:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK035

First Level Reviewer: BrandtT

Date: 13-Sep-2013 14:55:37

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.001	5.004	-0.003	95	516966	25.0	
* 2 Chlorobenzene-d5	82	7.197	7.194	0.003	84	267276	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.059	9.056	0.003	96	265165	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.697	4.694	0.003	97	94799	24.2	
\$ 5 Toluene-d8 (Surr)	98	6.084	6.087	-0.003	84	618936	23.6	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.122	8.125	-0.003	89	194626	22.3	
10 Dichlorodifluoromethane	85		1.354					
12 Chloromethane	50		1.500					
13 Vinyl chloride	62		1.591					
11 Chlorodifluoromethane	51		1.687					
14 Bromomethane	94		1.871					
15 Chloroethane	64		1.962					
17 Trichlorofluoromethane	101		2.188					
16 Dichlorofluoromethane	67		2.431					
18 Ethyl ether	59		2.461					
20 Acrolein	56		2.595					
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.650					
22 1,1-Dichloroethene	96		2.656					
23 Acetone	43		2.735					
19 Propene oxide	58		2.741					
25 Iodomethane	142		2.790					
26 Carbon disulfide	76		2.832					
24 Isopropyl alcohol	45		2.925					
29 Acetonitrile	40		2.978					
27 Methyl acetate	43		3.003					
28 3-Chloro-1-propene	41		3.053					
30 Methylene Chloride	84		3.082					
31 2-Methyl-2-propanol	59		3.283					
32 Methyl tert-butyl ether	73		3.289					
34 trans-1,2-Dichloroethene	96		3.295					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
33 Acrylonitrile	53		3.301					
35 Hexane	57		3.477					
36 Isopropyl ether	45		3.571					
39 1,1-Dichloroethane	63		3.635					
40 2-Chloro-1,3-butadiene	53		3.638					
37 Vinyl acetate	43		3.672					
38 1,1-Dimethoxyethane	75		3.721					
41 Tert-butyl ethyl ether	59		3.802					
46 Propionitrile	54		4.016					
44 2,2-Dichloropropane	77		4.067					
45 cis-1,2-Dichloroethene	96		4.086					
43 2-Butanone (MEK)	43		4.104					
42 Ethyl acetate	43		4.104					
47 Methacrylonitrile	41		4.107					
48 Chlorobromomethane	128		4.268					
49 Tetrahydrofuran	42		4.299					
50 Chloroform	83		4.329					
51 1,1,1-Trichloroethane	97		4.445					
53 Isobutyl alcohol	43		4.463					
52 Cyclohexane	56		4.469					
56 Tert-amyl methyl ether	73		4.546					
55 Carbon tetrachloride	117		4.560					
54 1,1-Dichloropropene	75		4.566					
59 n-Heptane	43		4.619					
57 Benzene	78		4.718					
58 1,2-Dichloroethane	62		4.755					
60 n-Butanol	56		4.822					
66 1,4-Dioxane	88		5.004					
62 Trichloroethene	95		5.199					
63 Methyl methacrylate	41		5.308					
64 Methylcyclohexane	83		5.314					
65 1,2-Dichloropropane	63		5.369					
70 2-Nitropropane	43		5.430					
67 Dibromomethane	93		5.473					
71 Epichlorohydrin	57		5.534					
68 Dichlorobromomethane	83		5.582					
69 2-Chloroethyl vinyl ether	63		5.789					
72 cis-1,3-Dichloropropene	75		5.905					
76 2-Methylthiophene	97		5.918					
78 3-Methylthiophene	97		5.934					
73 4-Methyl-2-pentanone (MIBK)	43		6.002					
74 Toluene	92		6.136					
77 trans-1,3-Dichloropropene	75		6.324					
75 Ethyl methacrylate	69		6.361					
79 1,1,2-Trichloroethane	83		6.464					
81 Tetrachloroethene	166		6.549					
82 1,3-Dichloropropane	76		6.586					
80 2-Hexanone	43		6.628					
83 Chlorodibromomethane	129		6.768					
85 3-Chlorobenzotrifluoride	180		6.796					
86 4-Chlorobenzotrifluoride	180		6.838					
84 Ethylene Dibromide	107		6.854					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
87 Chlorobenzene	112		7.219					
88 Ethylbenzene	91		7.286					
89 1,1,1,2-Tetrachloroethane	131		7.286					
90 m-Xylene & p-Xylene	106		7.377					
93 2-Chlorobenzotrifluoride	180		7.527					
91 o-Xylene	106		7.693					
92 Styrene	104		7.711					
96 Cyclohexanone	55		7.735					
95 Bromoform	173		7.888					
94 Isopropylbenzene	105		7.979					
104 3-Chlorotoluene	126		8.082					
101 Bromobenzene	156		8.247					
97 1,1,2,2-Tetrachloroethane	83		8.253					
108 Pentachloroethane	167		8.265					
100 1,2,3-Trichloropropane	110		8.289					
98 trans-1,4-Dichloro-2-butene	53		8.289					
99 N-Propylbenzene	91		8.308					
103 2-Chlorotoluene	126		8.393					
102 1,3,5-Trimethylbenzene	105		8.447					
105 4-Chlorotoluene	126		8.484					
106 tert-Butylbenzene	134		8.709					
114 Dicyclopentadiene	66		8.715					
107 1,2,4-Trimethylbenzene	105		8.752					
109 sec-Butylbenzene	105		8.892					
111 1,3-Dichlorobenzene	146		9.007					
110 4-Isopropyltoluene	119		9.007					
112 1,2,3-Trimethylbenzene	105		9.007					
113 1,4-Dichlorobenzene	146		9.080					
115 n-Butylbenzene	91		9.342					
116 1,2-Dichlorobenzene	146		9.384					
118 1,3,5-Trichlorobenzene	180		9.850					
117 1,2-Dibromo-3-Chloropropane	75		10.041					
119 1,2,4-Trichlorobenzene	180		10.711					
120 Hexachlorobutadiene	225		10.826					
121 Naphthalene	128		10.911					
122 1,2,3-Trichlorobenzene	180		11.106					
132 Halothane	1		0.0					
S 125 1,2-Dichloroethene, Total	1		30.000					
S 126 1,3-Dichloropropene, Total	1		30.000					
S 123 Total BTEX	1		30.000					
S 124 Xylenes, Total	1		30.000					
T 7 Ethylene oxide	44		1.872					
T 127 Ethanol TIC	45		0.0					
T 134 Pentachloroethane TIC	1		0.0					
T 9 bis(2-chloromethyl)ether TIC	1		0.0					
T 128 Hexachloroethane TIC	1		0.0					
T 135 1-Bromopropane	1		0.0					
T 130 Bromoethane TIC	1		0.0					
T 129 Aziridine TIC	1		0.0					
T 133 bis(chloromethyl)ether TIC	1		0.0					
T 131 tert-amyl alcohol TIC	1		0.0					

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0465.D

Injection Date: 13-Sep-2013 14:37:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973Q

Lims Batch ID: 138961

Lims Sample ID: 4

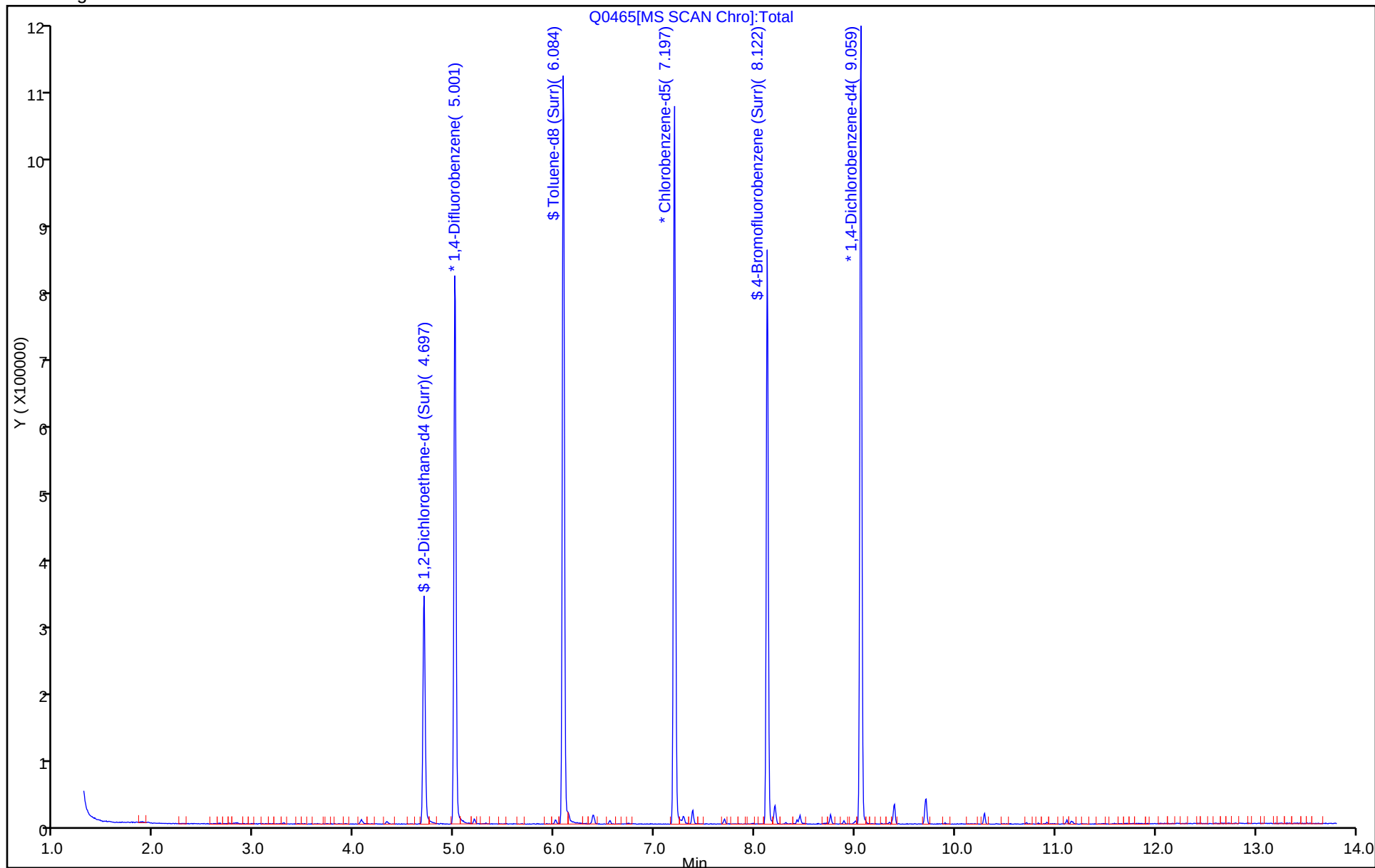
Operator ID: TRB

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-138961/3
 Matrix: Water Lab File ID: Q0464.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 09/13/2013 14:09
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 138961 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	25.6		1.0	0.79
71-43-2	Benzene	27.6		1.0	0.41
108-90-7	Chlorobenzene	25.9		1.0	0.75
100-41-4	Ethylbenzene	25.7		1.0	0.74
1330-20-7	Xylenes, Total	75.4		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		66-137
2037-26-5	Toluene-d8 (Surr)	96		71-126
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0464.D
 Lims ID: LCS Client ID:
 Inject. Date: 13-Sep-2013 14:09:30 Dil. Factor: 1.0000
 Sample Type: LCS
 Sample ID: LCS
 Misc. Info.: 480-0025207-003
 Operator: TRB Instrument ID: HP5973Q
 Purge Vol: 5.000 mL ALS Bottle#: 3
 Lims Batch ID: 138961 Lims Sample ID: 3
 Detector: MS SCAN
 Method: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q-8260.m
 Last Update: 13-Sep-2013 14:27:36 Calib Date: 25-Jul-2013 15:31:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK035

First Level Reviewer: BrandtT

Date: 13-Sep-2013 14:27:36

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.004	5.004	0.0	95	540976	25.0	
* 2 Chlorobenzene-d5	82	7.194	7.194	0.0	87	273781	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.056	9.056	0.0	96	270644	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.694	4.694	0.0	89	98746	24.1	
\$ 5 Toluene-d8 (Surr)	98	6.087	6.087	0.0	84	644177	24.0	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.125	8.125	0.0	90	206460	23.1	
22 1,1-Dichloroethene	96	2.650	2.656	-0.006	95	141939	21.5	
32 Methyl tert-butyl ether	73	3.282	3.289	-0.007	91	586787	24.3	
34 trans-1,2-Dichloroethene	96	3.295	3.295	0.0	93	191838	26.2	
39 1,1-Dichloroethane	63	3.635	3.635	0.0	85	387909	26.5	
45 cis-1,2-Dichloroethene	96	4.085	4.086	-0.001	71	212589	26.0	
57 Benzene	78	4.718	4.718	0.0	98	796057	27.6	
58 1,2-Dichloroethane	62	4.755	4.755	0.0	89	310993	25.5	
62 Trichloroethene	95	5.193	5.199	-0.006	93	204477	25.5	
74 Toluene	92	6.136	6.136	0.0	97	514460	25.8	
81 Tetrachloroethene	166	6.549	6.549	0.0	92	214896	23.5	
87 Chlorobenzene	112	7.218	7.219	-0.001	94	598873	25.9	
88 Ethylbenzene	91	7.285	7.286	-0.001	98	963035	25.7	
90 m-Xylene & p-Xylene	106	7.377	7.377	0.0	98	766138	50.8	
91 o-Xylene	106	7.693	7.693	0.0	97	379651	24.6	
107 1,2,4-Trimethylbenzene	105	8.757	8.752	0.005	97	818068	26.4	
116 1,2-Dichlorobenzene	146	9.384	9.384	0.0	97	455432	25.6	
S 124 Xylenes, Total	1				0		75.4	
S 125 1,2-Dichloroethene, Total	1				0		52.2	

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0464.D

Injection Date: 13-Sep-2013 14:09:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973Q

Lims Batch ID: 138961

Lims Sample ID: 3

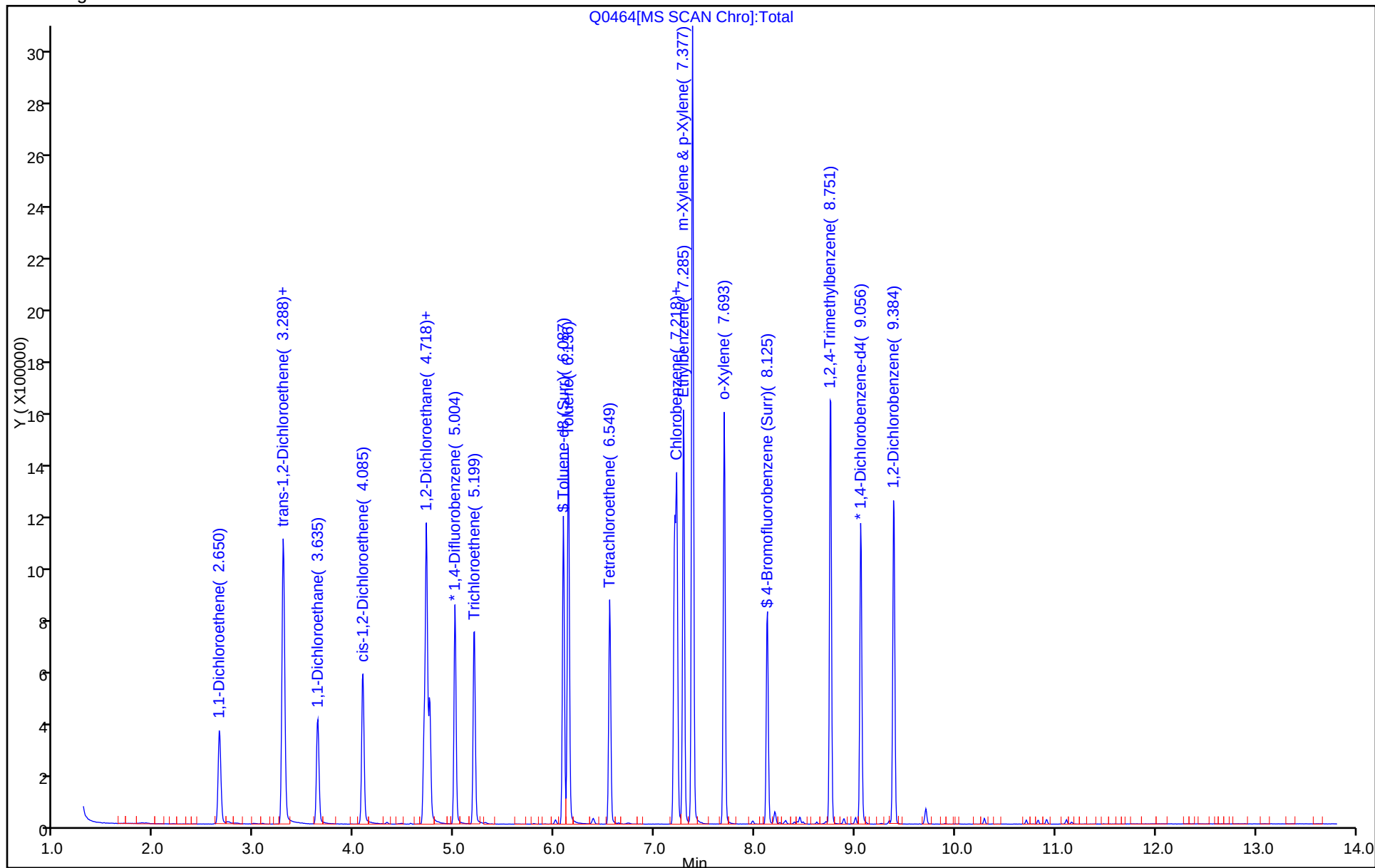
Operator ID: TRB

Purge Vol: 5.000 mL

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Client Sample ID: Sump 4-090913 MS MS Lab Sample ID: 480-45418-5 MS

Matrix: Water Lab File ID: Q0472.D

Analysis Method: 8260B Date Collected: 09/09/2013 10:05

Sample wt/vol: 5(mL) Date Analyzed: 09/13/2013 17:56

Soil Aliquot Vol: _____ Dilution Factor: 4

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 138961 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	107		4.0	3.2
106-46-7	1,4-Dichlorobenzene	ND		4.0	3.4
71-43-2	Benzene	122		4.0	1.6
108-90-7	Chlorobenzene	120		4.0	3.0
100-41-4	Ethylbenzene	111		4.0	3.0
1330-20-7	Xylenes, Total	321		8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		66-137
2037-26-5	Toluene-d8 (Surr)	95		71-126
460-00-4	4-Bromofluorobenzene (Surr)	91		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0472.D
 Lims ID: 480-45418-D-5 MS Client ID: Sump 4-090913 MS
 Inject. Date: 13-Sep-2013 17:56:30 Dil. Factor: 4.0000
 Sample Type: MS
 Sample ID: 480-45418-D-5 MS
 Misc. Info.: 480-0025207-011
 Operator: TRB Instrument ID: HP5973Q
 Purge Vol: 5.000 mL ALS Bottle#: 11
 Lims Batch ID: 138961 Lims Sample ID: 11
 Detector: MS SCAN
 Method: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q-8260.m
 Last Update: 13-Sep-2013 21:15:31 Calib Date: 25-Jul-2013 15:31:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK025

First Level Reviewer: BrandtT

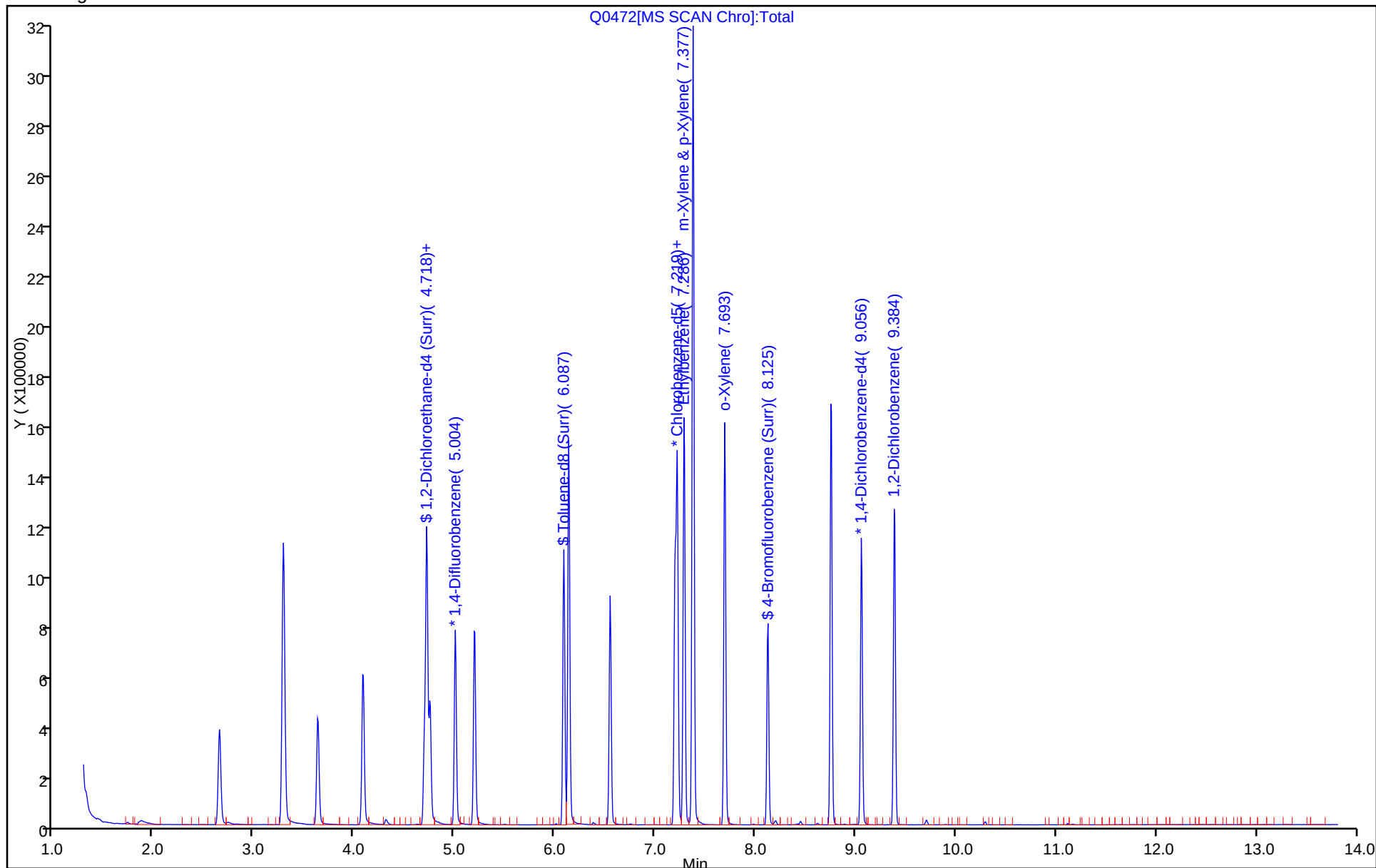
Date: 13-Sep-2013 23:35:48

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.004	5.004	0.0	95	502197	25.0	
* 2 Chlorobenzene-d5	82	7.194	7.194	0.0	85	260475	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.056	9.056	0.0	95	260641	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.694	4.694	0.0	89	94100	24.8	
\$ 5 Toluene-d8 (Surr)	98	6.087	6.087	0.0	93	606561	23.8	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.125	8.125	0.0	89	193383	22.7	
57 Benzene	78	4.718	4.718	0.0	98	813641	30.4	
87 Chlorobenzene	112	7.219	7.219	0.0	94	658201	29.9	
88 Ethylbenzene	91	7.286	7.286	0.0	98	992805	27.9	
90 m-Xylene & p-Xylene	106	7.377	7.377	0.0	98	783524	54.6	
91 o-Xylene	106	7.693	7.693	0.0	97	379126	25.9	
113 1,4-Dichlorobenzene	146		9.080					
116 1,2-Dichlorobenzene	146	9.384	9.384	0.0	98	460111	26.9	
S 124 Xylenes, Total	1				0		80.4	

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0472.D
Injection Date: 13-Sep-2013 17:56:30 Limit Group: MV - 8260B ICAL
Client ID: Sump 4-090913 MS Instrument ID: HP5973Q
Lims Batch ID: 138961 Lims Sample ID: 11
Operator ID: TRB Purge Vol: 5.000 mL
Column Type: ZB-624 Column Dia: 0.25 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Client Sample ID: Sump 4-090913 MSD MSD Lab Sample ID: 480-45418-5 MSD

Matrix: Water Lab File ID: Q0473.D

Analysis Method: 8260B Date Collected: 09/09/2013 10:05

Sample wt/vol: 5(mL) Date Analyzed: 09/13/2013 18:24

Soil Aliquot Vol: _____ Dilution Factor: 4

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 138961 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
95-50-1	1,2-Dichlorobenzene	111		4.0	3.2
106-46-7	1,4-Dichlorobenzene	ND		4.0	3.4
71-43-2	Benzene	125		4.0	1.6
108-90-7	Chlorobenzene	126		4.0	3.0
100-41-4	Ethylbenzene	118		4.0	3.0
1330-20-7	Xylenes, Total	339		8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		66-137
2037-26-5	Toluene-d8 (Surr)	96		71-126
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0473.D
 Lims ID: 480-45418-D-5 MSD Client ID: Sump 4-090913 MSD
 Inject. Date: 13-Sep-2013 18:24:30 Dil. Factor: 4.0000
 Sample Type: MSD
 Sample ID: 480-45418-D-5 MSD
 Misc. Info.: 480-0025207-012
 Operator: TRB Instrument ID: HP5973Q
 Purge Vol: 5.000 mL ALS Bottle#: 12
 Lims Batch ID: 138961 Lims Sample ID: 12
 Detector: MS SCAN
 Method: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q-8260.m
 Last Update: 13-Sep-2013 21:15:31 Calib Date: 25-Jul-2013 15:31:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\BUFCHROM\ChromData\HP5973Q\20130725-23793.b\Q9499.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: ZB-624 Column Dia: 0.25 mm
 Process Host: XAWRK025

First Level Reviewer: BrandtT

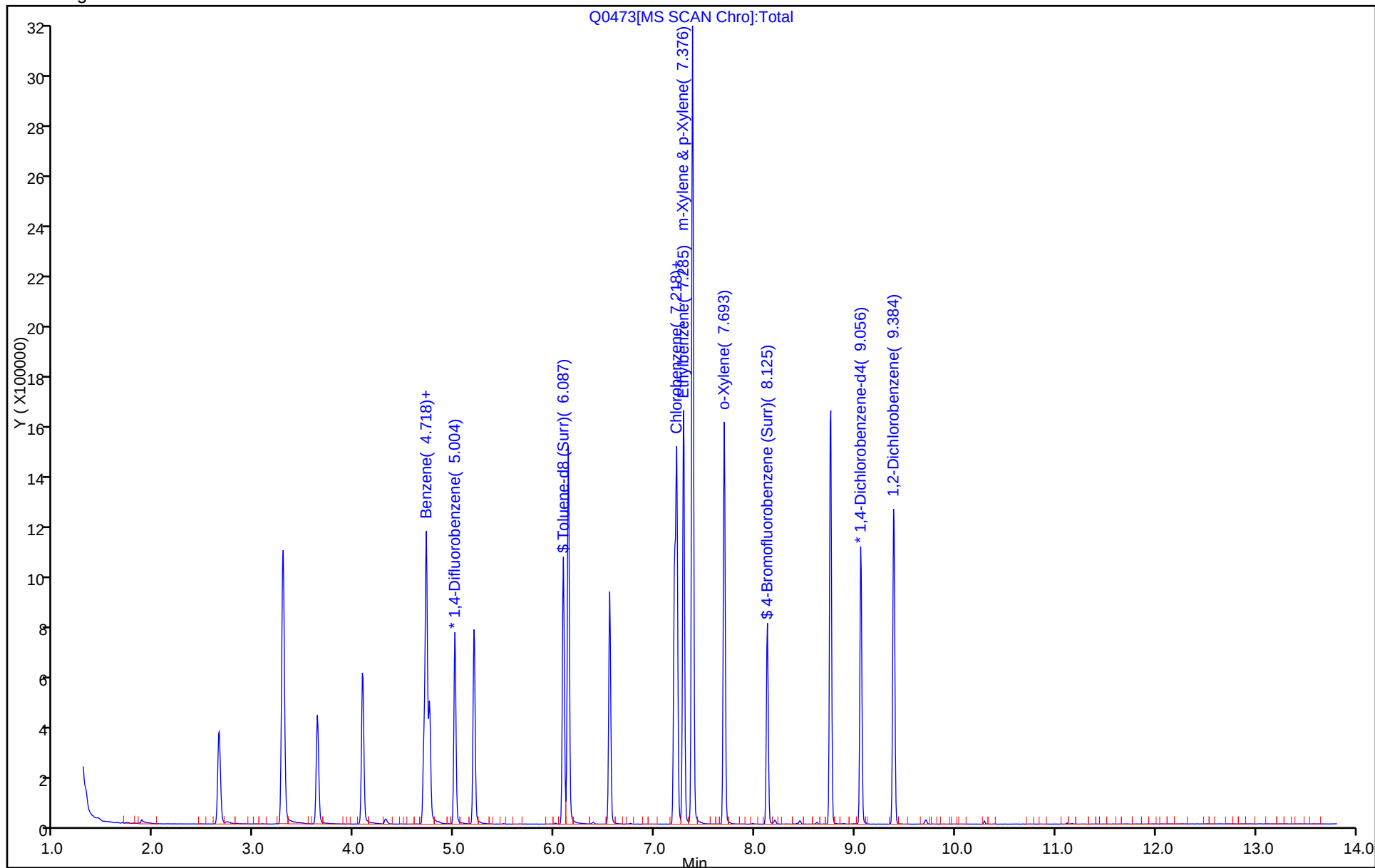
Date: 13-Sep-2013 23:35:45

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	5.004	5.004	0.0	95	495857	25.0	
* 2 Chlorobenzene-d5	82	7.194	7.194	0.0	85	252141	25.0	
* 3 1,4-Dichlorobenzene-d4	152	9.056	9.056	0.0	96	257489	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.694	4.694	0.0	90	93631	25.0	
\$ 5 Toluene-d8 (Surr)	98	6.087	6.087	0.0	93	595922	24.1	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.125	8.125	0.0	89	193303	23.5	
57 Benzene	78	4.718	4.718	0.0	97	823645	31.2	
87 Chlorobenzene	112	7.218	7.219	-0.001	94	673486	31.6	
88 Ethylbenzene	91	7.285	7.286	-0.001	98	1014481	29.4	
90 m-Xylene & p-Xylene	106	7.376	7.377	-0.001	98	794249	57.2	
91 o-Xylene	106	7.693	7.693	0.0	97	390105	27.5	
113 1,4-Dichlorobenzene	146		9.080					
116 1,2-Dichlorobenzene	146	9.384	9.384	0.0	97	470914	27.8	
S 124 Xylenes, Total	1				0		84.6	

TestAmerica Buffalo

Data File: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b\Q0473.D
Injection Date: 13-Sep-2013 18:24:30 Limit Group: MV - 8260B ICAL
Client ID: Sump 4-090913 MSD Instrument ID: HP5973Q
Lims Batch ID: 138961 Lims Sample ID: 12
Operator ID: TRB Purge Vol: 5.000 mL
Column Type: ZB-624 Column Dia: 0.25 mm

Y Scaling:



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Instrument ID: HP5973Q Start Date: 07/25/2013 12:21Analysis Batch Number: 130641 End Date: 07/25/2013 17:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-130641/1		07/25/2013 12:21	1	Q9492.D	ZB-624 (60) 0.25 (mm)
IC 480-130641/2		07/25/2013 13:13	1	Q9494.D	ZB-624 (60) 0.25 (mm)
IC 480-130641/3		07/25/2013 13:41	1	Q9495.D	ZB-624 (60) 0.25 (mm)
IC 480-130641/4		07/25/2013 14:08	1	Q9496.D	ZB-624 (60) 0.25 (mm)
ICIS 480-130641/5		07/25/2013 14:36	1	Q9497.D	ZB-624 (60) 0.25 (mm)
IC 480-130641/6		07/25/2013 15:04	1	Q9498.D	ZB-624 (60) 0.25 (mm)
IC 480-130641/7		07/25/2013 15:31	1	Q9499.D	ZB-624 (60) 0.25 (mm)
MDLV 480-130641/10		07/25/2013 16:55	1		ZB-624 (60) 0.25 (mm)
ICV 480-130641/11		07/25/2013 17:22	1		ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Instrument ID: HP5973Q Start Date: 09/13/2013 13:11Analysis Batch Number: 138961 End Date: 09/13/2013 23:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-138961/1		09/13/2013 13:11	1	Q0462.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-138961/2		09/13/2013 13:34	1	Q0463.D	ZB-624 (60) 0.25 (mm)
LCS 480-138961/3		09/13/2013 14:09	1	Q0464.D	ZB-624 (60) 0.25 (mm)
MB 480-138961/4		09/13/2013 14:37	1	Q0465.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		09/13/2013 15:38	1		ZB-624 (60) 0.25 (mm)
480-45418-2	Sump 1-090913	09/13/2013 16:06	4	Q0468.D	ZB-624 (60) 0.25 (mm)
480-45418-3	Sump 2-090913	09/13/2013 16:33	5	Q0469.D	ZB-624 (60) 0.25 (mm)
480-45418-4	Sump 3-090913	09/13/2013 17:01	4	Q0470.D	ZB-624 (60) 0.25 (mm)
480-45418-5	Sump 4-090913	09/13/2013 17:29	4	Q0471.D	ZB-624 (60) 0.25 (mm)
480-45418-5 MS	Sump 4-090913 MS MS	09/13/2013 17:56	4	Q0472.D	ZB-624 (60) 0.25 (mm)
480-45418-5 MSD	Sump 4-090913 MSD MSD	09/13/2013 18:24	4	Q0473.D	ZB-624 (60) 0.25 (mm)
480-45418-6	MW-2-090913	09/13/2013 18:52	1	Q0474.D	ZB-624 (60) 0.25 (mm)
480-45418-7	FDUP-090913	09/13/2013 19:19	4	Q0475.D	ZB-624 (60) 0.25 (mm)
480-45418-8	TRIP BLANK 090913	09/13/2013 19:47	1	Q0476.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		09/13/2013 20:15	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/13/2013 20:42	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/13/2013 21:10	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/13/2013 21:38	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/13/2013 22:05	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/13/2013 22:33	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/13/2013 23:01	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/13/2013 23:28	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		09/13/2013 23:56	1		ZB-624 (60) 0.25 (mm)

TestAmerica Laboratories
Worklist Report

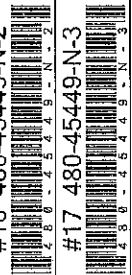
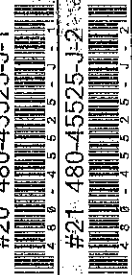
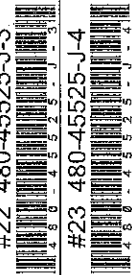
Worklist Name: 9/13/13 8260
Instrument Name: HP5973Q
Purge Volume: 5.000000
Analysis Type: VOA
Batch Directory: \\BUFCHROM\ChromData\HP5973Q\20130913-25207.b
Upload Directory: \\Corptalsapp07\480-BF-RawData\Organics\MMS\HP5973Q
Run Reagent: Q_8260_IS_00042
Run Reagent: Q_8260_SURR_00043
Amount Added: 1.250000, Units: uL
Amount Added: 1.250000, Units: uL

Worklist Number: 25207

Chrom Method: Q-8260

Units: mL

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
480-0025207-001	# 1 BFB	BFB_WRK_00029	BFB		voaWater	1.000000	uL	1.000000
480-0025207-002	# 2 CCVIS	8260+_SS_WRK_00048 60COMP_WRK_00052	CCVIS		voaWater	5.000000	mL	1.000000
480-0025207-003	# 3 LCS	17_COMP_WRK_00027	LCS		voaWater	5.000000	mL	1.000000
480-0025207-004	# 4 MB		MB		voaWater	5.000000	mL	1.000000
480-0025207-005	# 5 480-45353-X-1		Client		voaWater	5.000000	mL	1.000000
480-0025207-006	# 6 480-45353-A-2		Client		voaWater	5.000000	mL	1.000000
480-0025207-007	# 7 480-45418-A-2	10.5 mL into 50mL H ₂ O	Client		voaWater	5.000000	mL	4.000000
480-0025207-008	# 8 480-45418-A-3	10 mL into 50mL H ₂ O	Client		voaWater	5.000000	mL	5.000000
480-0025207-009	# 9 480-45418-A-4	12.5 mL into 50mL H ₂ O	Client		voaWater	5.000000	mL	4.000000
480-0025207-010	# 10 480-45418-D-5		Client		voaWater	5.000000	mL	4.000000
480-0025207-011	# 11 480-45418-D-5 MS	17_COMP_WRK_00027	MS		voaWater	5.000000	mL	4.000000
480-0025207-012	# 12 480-45418-D-5 MSD	17_COMP_WRK_00027	MSD		voaWater	5.000000	mL	4.000000
480-0025207-013	# 13 480-45418-D-6		Client		voaWater	5.000000	mL	1.000000

Worklist ID	Lims ID	Sample Reagents	Sample Type	Cal Lvl	Fraction	Initial Vol/Wt	Vol/Wt Units	Dilution Factor
480-0025207-014 	#14 480-45418-D-7 	12.5mL into 50mL H ₂ O	Client		voaWater	5.000000	mL	4.000000
480-0025207-015 	#15 480-45418-A-8 		Client		voaWater	5.000000	mL	1.000000
480-0025207-016 	#16 480-45449-N-2 		Client		voaWater	5.000000	mL	1.000000
480-0025207-017 	#17 480-45449-N-3 		Client		voaWater	5.000000	mL	1.000000
480-0025207-018 	#18 480-45449-N-4 		Client		voaWater	5.000000	mL	1.000000
480-0025207-019 	#19 480-45449-A-7 		Client		voaWater	5.000000	mL	1.000000
480-0025207-020 	#20 480-45525-J-1 		Client		voaWater	5.000000	mL	1.000000
480-0025207-021 	#21 480-45525-J-2 		Client		voaWater	5.000000	mL	1.000000
480-0025207-022 	#22 480-45525-J-3 		Client		voaWater	5.000000	mL	1.000000
480-0025207-023 	#23 480-45525-J-4 		Client		voaWater	5.000000	mL	1.000000
480-0025207-024 	#24 480-45525-A-5 		Client		voaWater	5.000000	mL	1.000000
480-0025207-025 	#25 480-45654-E-1 	12.5mL into 50mL H ₂ O	Client		voaWater	5.000000	mL	4.000000
480-0025207-026 	#26 480-45505-D-1 	1.0mL into 50mL H ₂ O	Client		voaWater	5.000000	mL	50.00
480-0025207-027 	#27 BLK 		Client		voaWater	5.000000	mL	1.000000
480-0025207-028 	#28 BLK 		Client		voaWater	5.000000	mL	1.000000

GC/MS VOA Worksheet

Batch Number: 480-138961

Date Open: Sep 13 2013 1:11PM

Method: 8260B

Batch End:

Analyst: Brandt, Todd R

Lab ID	Client ID	Method Chain	Basis	Initial pH	Initial weight/volume of sample	Final weight/volume of sample	Instrument	17_COMP_WRK_0002 7	60COMP_WRK_000 52
BFB~480-138961/1		8260B			1 uL	1 uL	HP5973Q		
CCVIS~480-138961/2		8260B			5 mL	5 mL	HP5973Q		12.5 uL
LCS~480-138961/3		8260B			5 mL	5 mL	HP5973Q	25 uL	
MB~480-138961/4		8260B			5 mL	5 mL	HP5973Q		
480-45353-A-2	Trip Blank	8260B	T	<2 SU	5 mL	5 mL	HP5973Q		
480-45418-A-2	Sump 1-090913	8260B	T	<2 SU	5 mL	5 mL	HP5973Q		
480-45418-A-3	Sump 2-090913	8260B	T	<2 SU	5 mL	5 mL	HP5973Q		
480-45418-A-4	Sump 3-090913	8260B	T	<2 SU	5 mL	5 mL	HP5973Q		
480-45418-D-5	Sump 4-090913	8260B	T	<2 SU	5 mL	5 mL	HP5973Q		
480-45418-D-5~MS	Sump 4-090913 MS	8260B	T	<2 SU	5 mL	5 mL	HP5973Q	25 uL	
480-45418-D-5~MS D	Sump 4-090913 MSD	8260B	T	<2 SU	5 mL	5 mL	HP5973Q	25 uL	
480-45418-D-6	MW-2-090913	8260B	T	<2 SU	5 mL	5 mL	HP5973Q		
480-45418-D-7	FDUP-090913	8260B	T	<2 SU	5 mL	5 mL	HP5973Q		
480-45418-A-8	TRIP BLANK 090913	8260B	T	<2 SU	5 mL	5 mL	HP5973Q		
480-45449-N-2	KR-1	8260B	T	<2 SU	5 mL	5 mL	HP5973Q		
480-45449-N-3	KR-2	8260B	T	<2 SU	5 mL	5 mL	HP5973Q		
480-45449-N-4	RF-1	8260B	T	<2 SU	5 mL	5 mL	HP5973Q		
480-45449-A-7	TRIP BLANK	8260B	T	<2 SU	5 mL	5 mL	HP5973Q		
480-45525-J-1	PDG27	8260B	T	<2 SU	5 mL	5 mL	HP5973Q		
480-45525-J-2	PDG28	8260B	T	<2 SU	5 mL	5 mL	HP5973Q		
480-45525-J-3	PDG13R	8260B	T	<2 SU	5 mL	5 mL	HP5973Q		
480-45525-J-4	PDG14R	8260B	T	<2 SU	5 mL	5 mL	HP5973Q		
480-45525-A-5	TRIP BLANK	8260B	T	<2 SU	5 mL	5 mL	HP5973Q		

GC/MS VOA Worksheet

Batch Number: 480-138961

Date Open: Sep 13 2013 1:11PM

Method: 8260B

Batch End:

Analyst: Brandt, Todd R

Lab ID	Client ID	Method Chain	Basis	8260+_SS_WRK_0004 8	BFB_WRK_00029	Q_8260_IS_00042	Q_8260_SURR_00043
BFB~480-138961/1		8260B			1 uL		
CCVIS~480-138961/ 2		8260B		12.5 uL		1.25 uL	1.25 uL
LCS~480-138961/3		8260B				1.25 uL	1.25 uL
MB~480-138961/4		8260B				1.25 uL	1.25 uL
480-45353-A-2	Trip Blank	8260B	T			1.25 uL	1.25 uL
480-45418-A-2	Sump 1-090913	8260B	T			1.25 uL	1.25 uL
480-45418-A-3	Sump 2-090913	8260B	T			1.25 uL	1.25 uL
480-45418-A-4	Sump 3-090913	8260B	T			1.25 uL	1.25 uL
480-45418-D-5	Sump 4-090913	8260B	T			1.25 uL	1.25 uL
480-45418-D-5~MS	Sump 4-090913 MS	8260B	T			1.25 uL	1.25 uL
480-45418-D-5~MS D	Sump 4-090913 MSD	8260B	T			1.25 uL	1.25 uL
480-45418-D-6	MW-2-090913	8260B	T			1.25 uL	1.25 uL
480-45418-D-7	FDUP-090913	8260B	T			1.25 uL	1.25 uL
480-45418-A-8	TRIP BLANK 090913	8260B	T			1.25 uL	1.25 uL
480-45449-N-2	KR-1	8260B	T			1.25 uL	1.25 uL
480-45449-N-3	KR-2	8260B	T			1.25 uL	1.25 uL
480-45449-N-4	RF-1	8260B	T			1.25 uL	1.25 uL
480-45449-A-7	TRIP BLANK	8260B	T			1.25 uL	1.25 uL
480-45525-J-1	PDG27	8260B	T			1.25 uL	1.25 uL
480-45525-J-2	PDG28	8260B	T			1.25 uL	1.25 uL
480-45525-J-3	PDG13R	8260B	T			1.25 uL	1.25 uL
480-45525-J-4	PDG14R	8260B	T			1.25 uL	1.25 uL
480-45525-A-5	TRIP BLANK	8260B	T			1.25 uL	1.25 uL

Method 8270C

Semivolatile Organic Compounds
(GC/MS) by Method 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Matrix: Water Level: Low
GC Column (1): RXI-5Sil MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	NBZ #	FBP #	TPH #	
Sump Comp-090913	480-45418-1	92	93	89	
Sump 4-090913	480-45418-5	86	88	98	
FDUP-090913	480-45418-7	92	91	86	
MW-2-090913	480-45418-9	73	77	84	
	MB 480-138326/1-A	85	86	97	
	LCS 480-138326/2-A	82	83	87	
Sump 4-090913 MS	480-45418-5 MS	83	83	35	X
Sump 4-090913 MSD	480-45418-5 MSD	78	77	35	X

	<u>QC LIMITS</u>
NBZ = Nitrobenzene-d5	46-120
FBP = 2-Fluorobiphenyl	48-120
TPH = p-Terphenyl-d14	67-150

Column to be used to flag recovery values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: U0567.D
Lab ID: LCS 480-138326/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
4-Chloroaniline	50.0	42.7	85	60-124	
Naphthalene	50.0	39.7	79	35-117	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: U0574.D
Lab ID: 480-45418-5 MS Client ID: Sump 4-090913 MS MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
4-Chloroaniline	47.1	ND	39.2	83	60-124	
Naphthalene	47.1	ND	37.1	79	35-117	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: U0575.D
Lab ID: 480-45418-5 MSD Client ID: Sump 4-090913 MSD MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
4-Chloroaniline	47.3	36.6	78	7	22	60-124	
Naphthalene	47.3	36.1	76	3	29	35-117	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Lab File ID: U0566.D Lab Sample ID: MB 480-138326/1-A
Matrix: Water Date Extracted: 09/11/2013 07:08
Instrument ID: HP5973U Date Analyzed: 09/13/2013 01:18
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-138326/2-A	U0567.D	09/13/2013 01:42
Sump Comp-090913	480-45418-1	U0573.D	09/13/2013 04:06
Sump 4-090913 MS MS	480-45418-5 MS	U0574.D	09/13/2013 04:30
Sump 4-090913 MSD MSD	480-45418-5 MSD	U0575.D	09/13/2013 04:53
Sump 4-090913	480-45418-5	U0576.D	09/13/2013 05:17
FDUP-090913	480-45418-7	U0577.D	09/13/2013 05:41
MW-2-090913	480-45418-9	U0578.D	09/13/2013 06:05

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Lab File ID: U9886.D DFTPP Injection Date: 08/12/2013
Instrument ID: HP5973U DFTPP Injection Time: 09:38
Analysis Batch No.: 133479

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	34.4
68	Less than 2.0 % of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	36.8
70	Less than 2.0 % of mass 69	0.0 (0.0) 1
127	40.0 - 60.0 % of mass 198	45.8
197	Less than 1.0 % of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0- 9.0 % of mass 198	6.8
275	10.0 - 30.0 % of mass 198	29.9
365	Greater than 1.0 % of mass 198	3.8
441	Present but less than mass 443	6.2 (32.8) 3
442	Greater than 40.0 % of mass 198	94.4
443	17.0 - 23.0 % of mass 442	18.8 (19.9) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-133479/3	U9891.D	08/12/2013	11:22
	IC 480-133479/4	U9892.D	08/12/2013	11:50
	ICIS 480-133479/5	U9893.D	08/12/2013	12:14
	IC 480-133479/6	U9894.D	08/12/2013	12:38
	IC 480-133479/7	U9895.D	08/12/2013	13:01
	IC 480-133479/8	U9896.D	08/12/2013	13:25

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Lab File ID: U0564.D DFTPP Injection Date: 09/13/2013
Instrument ID: HP5973U DFTPP Injection Time: 00:39
Analysis Batch No.: 138717

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	38.9
68	Less than 2.0 % of mass 69	0.3 (0.8) 1
69	Mass 69 relative abundance	35.4
70	Less than 2.0 % of mass 69	0.0 (0.0) 1
127	40.0 - 60.0 % of mass 198	45.9
197	Less than 1.0 % of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0- 9.0 % of mass 198	6.8
275	10.0 - 30.0 % of mass 198	27.7
365	Greater than 1.0 % of mass 198	3.6
441	Present but less than mass 443	14.5 (79.6) 3
442	Greater than 40.0 % of mass 198	95.0
443	17.0 - 23.0 % of mass 442	18.2 (19.1) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-138717/3	U0565.D	09/13/2013	00:55
	MB 480-138326/1-A	U0566.D	09/13/2013	01:18
	LCS 480-138326/2-A	U0567.D	09/13/2013	01:42
Sump Comp-090913	480-45418-1	U0573.D	09/13/2013	04:06
Sump 4-090913 MS MS	480-45418-5 MS	U0574.D	09/13/2013	04:30
Sump 4-090913 MSD MSD	480-45418-5 MSD	U0575.D	09/13/2013	04:53
Sump 4-090913	480-45418-5	U0576.D	09/13/2013	05:17
FDUP-090913	480-45418-7	U0577.D	09/13/2013	05:41
MW-2-090913	480-45418-9	U0578.D	09/13/2013	06:05

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Sample No.: ICIS 480-133479/5 Date Analyzed: 08/12/2013 12:14
Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm)
Lab File ID (Standard): U9893.D Heated Purge: (Y/N) N
Calibration ID: 14466

	DCB		NPT		ANT		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	60582	5.93	243528	7.59	154276	9.85	
UPPER LIMIT	121164	6.43	487056	8.09	308552	10.35	
LOWER LIMIT	30291	5.43	121764	7.09	77138	9.35	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-138717/3		42231	5.86	171187	7.52	108642	9.79

DCB = 1,4-Dichlorobenzene-d4

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG No.: _____
 Sample No.: ICIS 480-133479/5 Date Analyzed: 08/12/2013 12:14
 Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): U9893.D Heated Purge: (Y/N) N
 Calibration ID: 14466

	PHN		CRY		PRY	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	288919	11.56	378998	14.05	376562	15.39
UPPER LIMIT	577838	12.06	757996	14.55	753124	15.89
LOWER LIMIT	144460	11.06	189499	13.55	188281	14.89
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-138717/3		187454	11.50	245178	13.99	242223 15.31

PHN = Phenanthrene-d10

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG No.: _____
 Sample No.: CCVIS 480-138717/3 Date Analyzed: 09/13/2013 00:55
 Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): U0565.D Heated Purge: (Y/N) N
 Calibration ID: 14616

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		42231	5.86	171187	7.52	108642	9.79
UPPER LIMIT		84462	6.36	342374	8.02	217284	10.29
LOWER LIMIT		21116	5.36	85594	7.02	54321	9.29
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-138326/1-A		43680	5.86	169275	7.52	106628	9.79
LCS 480-138326/2-A		39534	5.86	156580	7.52	100668	9.79
480-45418-1	Sump Comp-090913	41985	5.86	163663	7.52	103534	9.79
480-45418-5 MS	Sump 4-090913 MS MS	41273	5.86	161852	7.52	103301	9.79
480-45418-5 MSD	Sump 4-090913 MSD MSD	41032	5.86	162596	7.52	104114	9.79
480-45418-5	Sump 4-090913	42338	5.86	166983	7.52	104751	9.79
480-45418-7	FDUP-090913	42930	5.86	166166	7.52	106514	9.79
480-45418-9	MW-2-090913	41130	5.86	160096	7.52	100922	9.79

DCB = 1,4-Dichlorobenzene-d4

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG No.: _____
 Sample No.: CCVIS 480-138717/3 Date Analyzed: 09/13/2013 00:55
 Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): U0565.D Heated Purge: (Y/N) N
 Calibration ID: 14616

	PHN		CRY		PRY		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	187454	11.50	245178	13.99	242223	15.31	
UPPER LIMIT	374908	12.00	490356	14.49	484446	15.81	
LOWER LIMIT	93727	11.00	122589	13.49	121112	14.81	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-138326/1-A		185569	11.50	236564	13.99	232507	15.31
LCS 480-138326/2-A		176908	11.50	229892	13.99	225711	15.31
480-45418-1	Sump Comp-090913	180098	11.50	244916	13.99	268857	15.31
480-45418-5 MS	Sump 4-090913 MS MS	177916	11.50	235855	13.99	256970	15.31
480-45418-5 MSD	Sump 4-090913 MSD MSD	179290	11.50	240367	13.99	261739	15.31
480-45418-5	Sump 4-090913	183694	11.50	240000	13.99	262847	15.31
480-45418-7	FDUP-090913	186715	11.50	252129	13.99	276369	15.31
480-45418-9	MW-2-090913	177455	11.50	234748	13.99	251282	15.31

PHN = Phenanthrene-d10

CRY = Chrysene-d12

PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Client Sample ID: Sump Comp-090913 Lab Sample ID: 480-45418-1
Matrix: Water Lab File ID: U0573.D
Analysis Method: 8270C Date Collected: 09/09/2013 12:00
Extract. Method: 3510C Date Extracted: 09/11/2013 07:08
Sample wt/vol: 1046.9(mL) Date Analyzed: 09/13/2013 04:06
Con. Extract Vol.: 1(mL) Dilution Factor: 1
Injection Volume: 1(uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 138717 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-47-8	4-Chloroaniline	ND		4.8	0.56
91-20-3	Naphthalene	ND		4.8	0.73

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	92		46-120
321-60-8	2-Fluorobiphenyl	93		48-120
1718-51-0	p-Terphenyl-d14	89		67-150

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0573.D
 Lims ID: 480-45418-A-1-A Client ID: Sump Comp-090913
 Inject. Date: 13-Sep-2013 04:06:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-0025167-011
 Misc. Info.:
 Operator: anm Instrument ID: HP5973U
 Injection Vol: 1.0 ul ALS Bottle#: 42
 Lims Batch ID: 138717 Lims Sample ID: 11
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U-8270.m
 Last Update: 13-Sep-2013 04:40:08 Calib Date: 31-Aug-2013 05:59:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973U\20130830-24838.b\U0334.D
 Limit Group: MB - 8270C ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: RXI-5Sil MS Column Dia: 0.25 mm
 Process Host: XAWRK040

First Level Reviewer: rimmera

Date: 13-Sep-2013 04:40:08

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.858	5.858	0.0	94	41985	40.0	
* 2 Naphthalene-d8	136	7.524	7.524	0.0	99	163663	40.0	
* 3 Acenaphthene-d10	164	9.790	9.790	0.0	96	103534	40.0	
* 4 Phenanthrene-d10	188	11.499	11.499	0.0	99	180098	40.0	
* 5 Chrysene-d12	240	13.989	13.994	-0.005	80	244916	40.0	
* 6 Perylene-d12	264	15.308	15.308	0.0	84	268857	40.0	
\$ 11 Nitrobenzene-d5	82	6.584	6.584	0.0	90	67145	46.0	
\$ 12 2-Fluorobiphenyl	172	8.935	8.935	0.0	99	155748	46.5	
\$ 14 p-Terphenyl-d14	244	13.048	13.048	0.0	98	206034	44.4	
121 Naphthalene	128		7.551					
123 4-Chloroaniline	127		7.637					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0573.D

Injection Date: 13-Sep-2013 04:06:30

Limit Group: MB - 8270C ICAL

Client ID: Sump Comp-090913

Instrument ID: HP5973U

Lims Batch ID: 138717

Lims Sample ID: 11

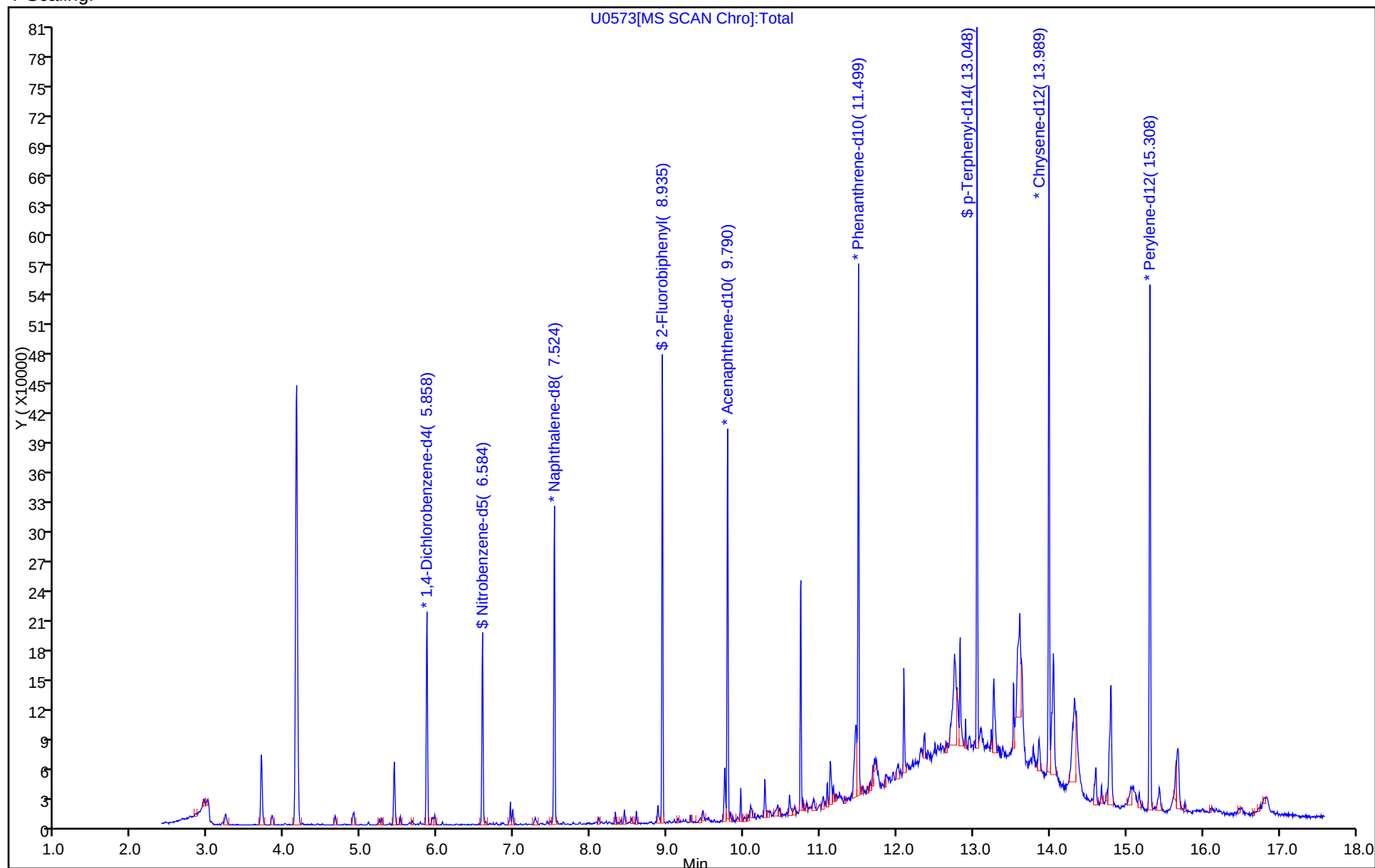
Operator ID: anm

Injection Vol: 1.0 ul

Column Type: RXI-5Sil MS

Column Dia: 0.25 mm

Y Scaling:



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Client Sample ID: Sump 4-090913 Lab Sample ID: 480-45418-5
Matrix: Water Lab File ID: U0576.D
Analysis Method: 8270C Date Collected: 09/09/2013 10:05
Extract. Method: 3510C Date Extracted: 09/11/2013 07:08
Sample wt/vol: 1058.2 (mL) Date Analyzed: 09/13/2013 05:17
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 138717 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-47-8	4-Chloroaniline	ND		4.7	0.56
91-20-3	Naphthalene	ND		4.7	0.72

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	86		46-120
321-60-8	2-Fluorobiphenyl	88		48-120
1718-51-0	p-Terphenyl-d14	98		67-150

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0576.D
 Lims ID: 480-45418-A-5-C Client ID: Sump 4-090913
 Inject. Date: 13-Sep-2013 05:17:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-0025167-014
 Misc. Info.:
 Operator: anm Instrument ID: HP5973U
 Injection Vol: 1.0 ul ALS Bottle#: 45
 Lims Batch ID: 138717 Lims Sample ID: 14
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U-8270.m
 Last Update: 13-Sep-2013 05:58:40 Calib Date: 31-Aug-2013 05:59:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973U\20130830-24838.b\U0334.D
 Limit Group: MB - 8270C ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: RXI-5Sil MS Column Dia: 0.25 mm
 Process Host: XAWRK040

First Level Reviewer: rimmera

Date: 13-Sep-2013 05:58:40

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.857	5.858	-0.001	94	42338	40.0	
* 2 Naphthalene-d8	136	7.524	7.524	0.0	99	166983	40.0	
* 3 Acenaphthene-d10	164	9.789	9.790	-0.001	90	104751	40.0	
* 4 Phenanthrene-d10	188	11.499	11.499	0.0	99	183694	40.0	
* 5 Chrysene-d12	240	13.988	13.994	-0.006	80	240000	40.0	
* 6 Perylene-d12	264	15.308	15.308	0.0	88	262847	40.0	
\$ 11 Nitrobenzene-d5	82	6.584	6.584	0.0	89	64210	43.2	
\$ 12 2-Fluorobiphenyl	172	8.934	8.935	-0.001	99	149321	44.0	
\$ 14 p-Terphenyl-d14	244	13.048	13.048	0.0	98	222013	48.9	
121 Naphthalene	128		7.551					
123 4-Chloroaniline	127		7.637					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0576.D

Injection Date: 13-Sep-2013 05:17:30

Limit Group: MB - 8270C ICAL

Client ID: Sump 4-090913

Instrument ID: HP5973U

Lims Batch ID: 138717

Lims Sample ID: 14

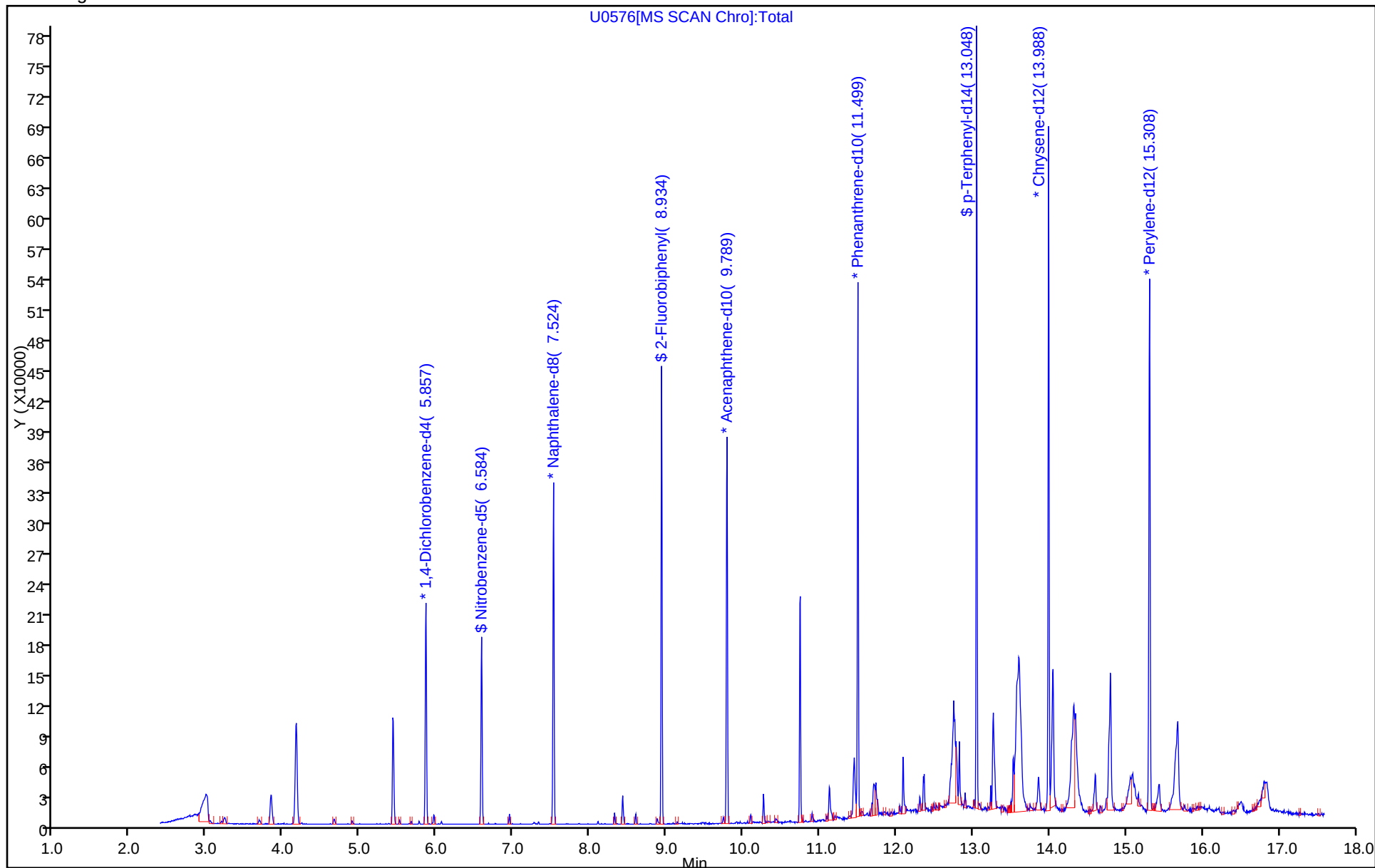
Operator ID: anm

Injection Vol: 1.0 ul

Column Type: RXI-5Sil MS

Column Dia: 0.25 mm

Y Scaling:



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Client Sample ID: FDUP-090913 Lab Sample ID: 480-45418-7
Matrix: Water Lab File ID: U0577.D
Analysis Method: 8270C Date Collected: 09/09/2013 10:15
Extract. Method: 3510C Date Extracted: 09/11/2013 07:08
Sample wt/vol: 1057.1 (mL) Date Analyzed: 09/13/2013 05:41
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 138717 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-47-8	4-Chloroaniline	ND		4.7	0.56
91-20-3	Naphthalene	ND		4.7	0.72

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	92		46-120
321-60-8	2-Fluorobiphenyl	91		48-120
1718-51-0	p-Terphenyl-d14	86		67-150

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0577.D
 Lims ID: 480-45418-B-7-A Client ID: FDUP-090913
 Inject. Date: 13-Sep-2013 05:41:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-0025167-015
 Misc. Info.:
 Operator: anm Instrument ID: HP5973U
 Injection Vol: 1.0 ul ALS Bottle#: 46
 Lims Batch ID: 138717 Lims Sample ID: 15
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U-8270.m
 Last Update: 13-Sep-2013 06:31:47 Calib Date: 31-Aug-2013 05:59:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973U\20130830-24838.b\U0334.D
 Limit Group: MB - 8270C ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: RXI-5Sil MS Column Dia: 0.25 mm
 Process Host: XAWRK040

First Level Reviewer: rimmera

Date: 13-Sep-2013 06:31:47

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.858	5.858	0.0	94	42930	40.0	
* 2 Naphthalene-d8	136	7.524	7.524	0.0	99	166166	40.0	
* 3 Acenaphthene-d10	164	9.790	9.790	0.0	99	106514	40.0	
* 4 Phenanthrene-d10	188	11.499	11.499	0.0	99	186715	40.0	
* 5 Chrysene-d12	240	13.989	13.994	-0.006	80	252129	40.0	
* 6 Perylene-d12	264	15.313	15.308	0.005	88	276369	40.0	
\$ 11 Nitrobenzene-d5	82	6.584	6.584	0.0	90	68016	45.9	
\$ 12 2-Fluorobiphenyl	172	8.935	8.935	0.0	99	157513	45.7	
\$ 14 p-Terphenyl-d14	244	13.048	13.048	0.0	98	204294	42.8	
121 Naphthalene	128		7.551					
123 4-Chloroaniline	127		7.637					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0577.D

Injection Date: 13-Sep-2013 05:41:30

Limit Group: MB - 8270C ICAL

Client ID: FDUP-090913

Instrument ID: HP5973U

Lims Batch ID: 138717

Lims Sample ID: 15

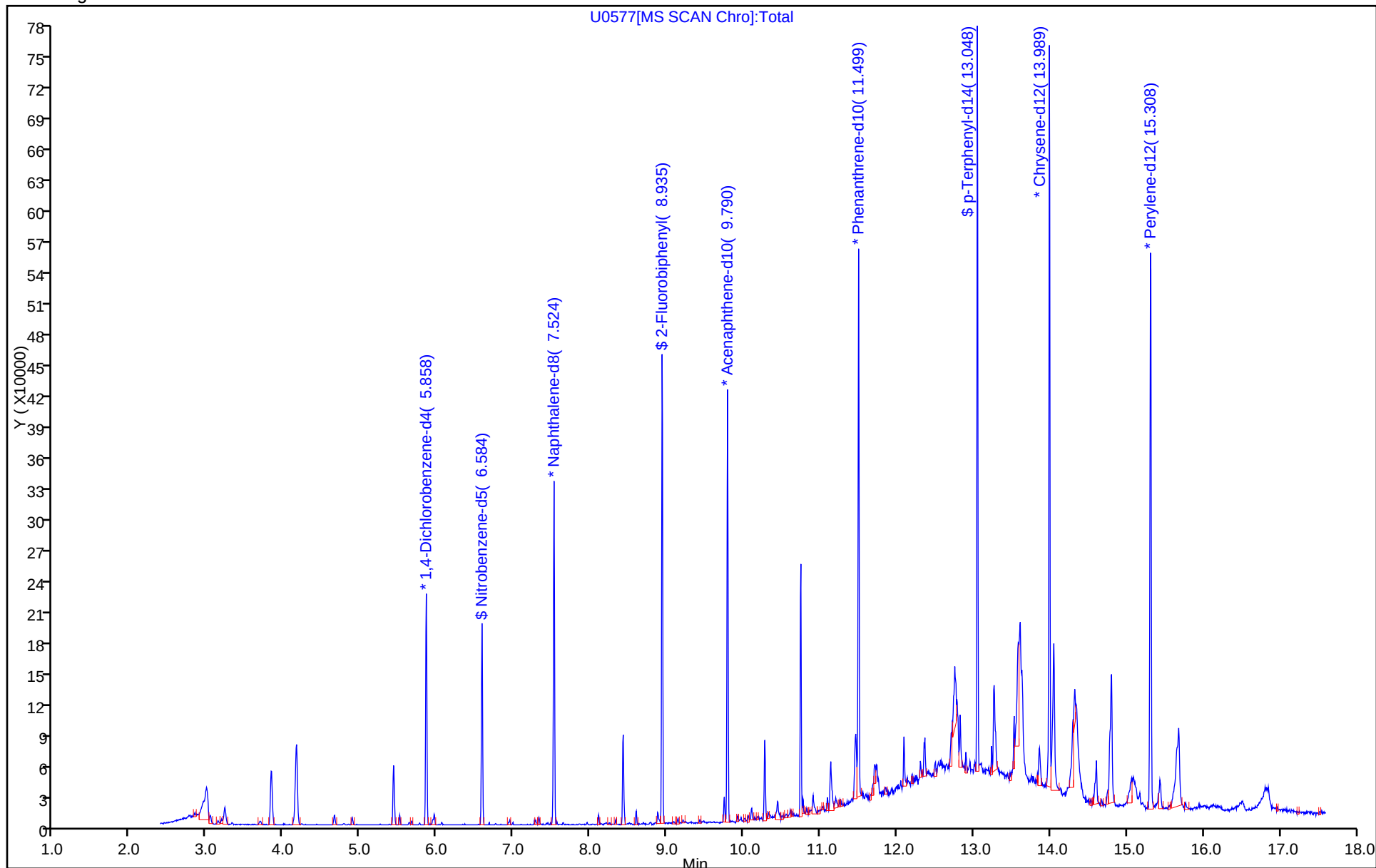
Operator ID: anm

Injection Vol: 1.0 ul

Column Type: RXI-5Sil MS

Column Dia: 0.25 mm

Y Scaling:



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Client Sample ID: MW-2-090913 Lab Sample ID: 480-45418-9
Matrix: Water Lab File ID: U0578.D
Analysis Method: 8270C Date Collected: 09/09/2013 13:45
Extract. Method: 3510C Date Extracted: 09/11/2013 07:08
Sample wt/vol: 703.5 (mL) Date Analyzed: 09/13/2013 06:05
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 138717 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-47-8	4-Chloroaniline	ND		7.1	0.84
91-20-3	Naphthalene	ND		7.1	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	73		46-120
321-60-8	2-Fluorobiphenyl	77		48-120
1718-51-0	p-Terphenyl-d14	84		67-150

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0578.D
 Lims ID: 480-45418-A-9-A Client ID: MW-2-090913
 Inject. Date: 13-Sep-2013 06:05:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-0025167-016
 Misc. Info.:
 Operator: anm Instrument ID: HP5973U
 Injection Vol: 1.0 ul ALS Bottle#: 47
 Lims Batch ID: 138717 Lims Sample ID: 16
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U-8270.m
 Last Update: 13-Sep-2013 06:58:35 Calib Date: 31-Aug-2013 05:59:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973U\20130830-24838.b\U0334.D
 Limit Group: MB - 8270C ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: RXI-5Sil MS Column Dia: 0.25 mm
 Process Host: XAWRK040

First Level Reviewer: rimmera

Date: 13-Sep-2013 06:58:35

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.858	5.858	0.0	93	41130	40.0	
* 2 Naphthalene-d8	136	7.524	7.524	0.0	99	160096	40.0	
* 3 Acenaphthene-d10	164	9.790	9.790	0.0	98	100922	40.0	
* 4 Phenanthrene-d10	188	11.499	11.499	0.0	99	177455	40.0	
* 5 Chrysene-d12	240	13.989	13.994	-0.005	76	234748	40.0	
* 6 Perylene-d12	264	15.308	15.308	0.0	84	251282	40.0	
\$ 11 Nitrobenzene-d5	82	6.584	6.584	0.0	89	52015	36.5	
\$ 12 2-Fluorobiphenyl	172	8.935	8.935	0.0	98	124969	38.3	
\$ 14 p-Terphenyl-d14	244	13.048	13.048	0.0	97	187006	42.1	
121 Naphthalene	128		7.551					
123 4-Chloroaniline	127		7.637					

TestAmerica Buffalo

Data File: \\Bufchrom\\ChromData\\HP5973U\\20130912-25167.b\\U0578.D

Injection Date: 13-Sep-2013 06:05:30

Limit Group: MB - 8270C ICAL

Client ID: MW-2-090913

Instrument ID: HP5973U

Lims Batch ID: 138717

Lims Sample ID: 16

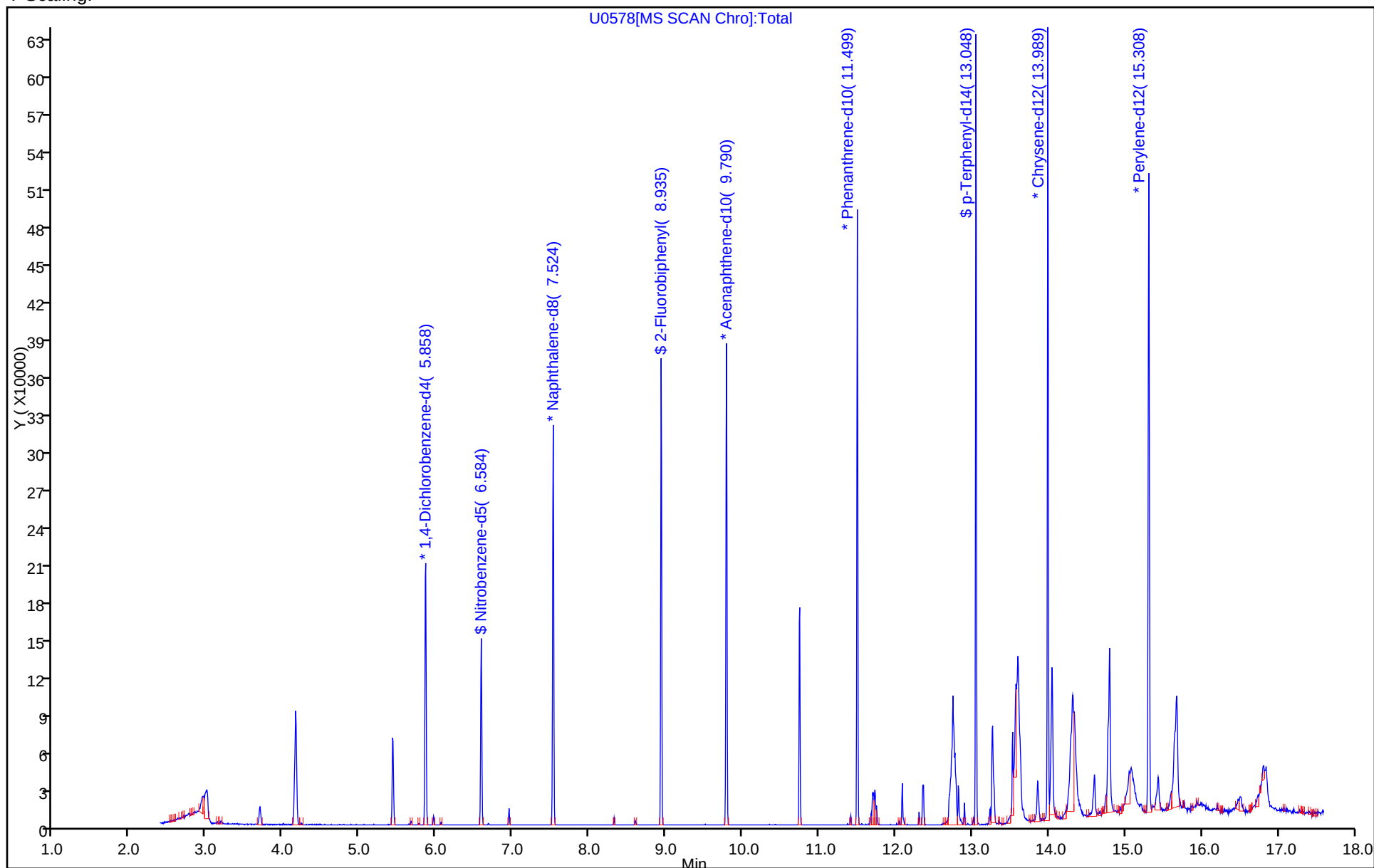
Operator ID: anm

Injection Vol: 1.0 ul

Column Type: RXI-5Sil MS

Column Dia: 0.25 mm

Y Scaling:



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1 Analy Batch No.: 133479

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/12/2013 11:22 Calibration End Date: 08/12/2013 13:25 Calibration ID: 14466

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-133479/3	U9891.D
Level 2	IC 480-133479/4	U9892.D
Level 3	ICIS 480-133479/5	U9893.D
Level 4	IC 480-133479/6	U9894.D
Level 5	IC 480-133479/7	U9895.D
Level 6	IC 480-133479/8	U9896.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
N-Nitrosodimethylamine	0.5465 0.5421	0.5749	0.5909	0.5952	0.5593	Ave		0.5682				4.0		15.0			
Pyridine	0.6654 0.7210	0.7701	0.7721	0.7878	0.7313	Ave		0.7413				6.1		15.0			
Aniline	2.0173 1.9652	2.0744	2.0533	2.0946	1.9677	Ave		2.0287				2.7		15.0			
Phenol	1.6706 1.6840	1.7617	1.7536	1.7861	1.6934	Ave		1.7249				2.8		15.0			
Bis (2-chloroethyl) ether	1.2886 1.2010	1.3336	1.2843	1.2968	1.2161	Ave		1.2701				4.0		15.0			
2-Chlorophenol	1.3221 1.3341	1.3629	1.3721	1.3851	1.3371	Ave		1.3523				1.8		15.0			
1,3-Dichlorobenzene	1.5411 1.4497	1.5587	1.5264	1.5292	1.4604	Ave		1.5109				3.0		15.0			
1,4-Dichlorobenzene	1.5812 1.4903	1.6048	1.5636	1.5786	1.5009	Ave		1.5532				3.0		15.0			
Benzyl alcohol	0.7802 0.8252	0.8571	0.8635	0.8673	0.8398	Ave		0.8389				3.9		15.0			
1,2-Dichlorobenzene	1.4531 1.4143	1.5219	1.4655	1.5045	1.4183	Ave		1.4629				3.0		15.0			
2-Methylphenol	1.1051 1.1526	1.2087	1.2065	1.2140	1.1693	Ave		1.1760				3.6		15.0			
bis (2-chloroisopropyl) ether	1.4033 1.3113	1.4600	1.4240	1.4278	1.3332	Ave		1.3933				4.2		15.0			
Acetophenone	1.8773 1.8441	1.9673	1.9397	1.9690	1.8535	Ave		1.9085				3.0		15.0			
N-Nitrosodi-n-propylamine	0.9553 0.9803	1.0080	1.0344	1.0539	0.9892	Ave		1.0035			0.0500	3.6		15.0			
4-Methylphenol	1.1128 1.2405	1.2546	1.2530	1.2910	1.2230	Ave		1.2292				5.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1 Analy Batch No.: 133479

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/12/2013 11:22 Calibration End Date: 08/12/2013 13:25 Calibration ID: 14466

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexachloroethane	0.5833 0.5774	0.5938	0.6025	0.6016	0.5797	Ave		0.5897				1.9		15.0			
Nitrobenzene	0.3522 0.3631	0.3787	0.3737	0.3731	0.3525	Ave		0.3655				3.1		15.0			
Isophorone	0.6047 0.6147	0.6502	0.6443	0.6451	0.6056	Ave		0.6274				3.4		15.0			
2-Nitrophenol	0.1384 0.1882	0.1760	0.1875	0.1879	0.1825	Ave		0.1768				11.0		15.0			
2,4-Dimethylphenol	0.3343 0.3600	0.3697	0.3705	0.3752	0.3513	Ave		0.3602				4.2		15.0			
Bis(2-chloroethoxy)methane	0.3726 0.3569	0.3710	0.3780	0.3678	0.3539	Ave		0.3667				2.6		15.0			
2,4-Dichlorophenol	0.2453 0.2948	0.2887	0.2955	0.2999	0.2848	Ave		0.2848				7.1		15.0			
1,2,4-Trichlorobenzene	0.3472 0.3424	0.3612	0.3583	0.3530	0.3346	Ave		0.3495				2.9		15.0			
Naphthalene	1.0458 0.9670	1.0248	1.0130	1.0031	0.9455	Ave		0.9999				3.7		15.0			
4-Chloroaniline	0.3774 0.4233	0.4237	0.4331	0.4319	0.4157	Ave		0.4175				4.9		15.0			
Hexachlorobutadiene	0.2352 0.2295	0.2361	0.2354	0.2350	0.2240	Ave		0.2325				2.1		15.0			
4-Chloro-3-methylphenol	0.2555 0.3102	0.3031	0.3177	0.3191	0.3024	Ave		0.3013				7.8		15.0			
2-Methylnaphthalene	0.6878 0.6759	0.7018	0.7104	0.6983	0.6678	Ave		0.6903				2.4		15.0			
Hexachlorocyclopentadiene	0.2561 0.4118	0.3423	0.3836	0.4005	0.3956	Lin1	-0.897	0.4094			0.0500				0.9990		0.9900
1,2,4,5-Tetrachlorobenzene	0.5834 0.5999	0.6187	0.6112	0.6020	0.5781	Ave		0.5989				2.6		15.0			
2,4,6-Trichlorophenol	0.3065 0.3736	0.3589	0.3715	0.3764	0.3581	Ave		0.3575				7.3		15.0			
2,4,5-Trichlorophenol	0.2958 0.3923	0.3744	0.3976	0.3996	0.3801	Ave		0.3733				11.0		15.0			
Biphenyl	1.4435 1.4070	1.4588	1.4501	1.4296	1.3660	Ave		1.4258				2.4		15.0			
2-Chloronaphthalene	1.0986 1.1238	1.1335	1.1314	1.1208	1.0747	Ave		1.1138				2.1		15.0			
2-Nitroaniline	0.1865 0.3179	0.2844	0.3122	0.3215	0.3081	Lin1	-0.664	0.3213							1.0000		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1 Analy Batch No.: 133479

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/12/2013 11:22 Calibration End Date: 08/12/2013 13:25 Calibration ID: 14466

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dimethyl phthalate	1.3089 1.2743	1.3649	1.3594	1.3369	1.2456	Ave		1.3150				3.6		15.0			
1,3-Dinitrobenzene	0.0702 0.1487	0.1161	0.1342	0.1454	0.1438	Lin1	-0.456	0.1489							0.9990		0.9900
2,6-Dinitrotoluene	0.2406 0.3094	0.2934	0.3067	0.3095	0.3002	Ave		0.2933				9.1		15.0			
Acenaphthylene	1.5937 1.6313	1.6662	1.6809	1.6688	1.5758	Ave		1.6361				2.7		15.0			
3-Nitroaniline	0.1782 0.3041	0.2783	0.3128	0.3107	0.2943	Lin1	-0.594	0.3091							0.9990		0.9900
Acenaphthene	1.1697 1.1293	1.1702	1.1633	1.1550	1.0917	Ave		1.1465				2.7		15.0			
2,4-Dinitrophenol	0.0586 0.2129	0.1355	0.1768	0.1970	0.1992	Lin1	-1.869	0.2096			0.0500				0.9970		0.9900
4-Nitrophenol	0.1010 0.2141	0.1820	0.2129	0.2149	0.2082	Lin1	-1.167	0.2178			0.0500				0.9990		0.9900
Dibenzofuran	1.5960 1.6137	1.6688	1.6601	1.6562	1.5542	Ave		1.6248				2.8		15.0			
2,4-Dinitrotoluene	0.2874 0.4427	0.3988	0.4342	0.4432	0.4222	Ave		0.4047				15.0		15.0			
2,3,4,6-Tetrachlorophenol	0.2884 0.3705	0.3331	0.3644	0.3722	0.3536	Ave		0.3470				9.3		15.0			
Diethyl phthalate	1.2854 1.2188	1.3692	1.3437	1.2877	1.1966	Ave		1.2836				5.3		15.0			
Fluorene	1.3060 1.3684	1.3322	1.3787	1.3756	1.3263	Ave		1.3479				2.3		15.0			
4-Chlorophenyl phenyl ether	0.7113 0.7650	0.7404	0.7589	0.7629	0.7421	Ave		0.7468				2.7		15.0			
4-Nitroaniline	0.1520 0.3157	0.2815	0.2916	0.3120	0.3009	Lin1	-0.814	0.3159							0.9990		0.9900
4,6-Dinitro-2-methylphenol	0.0913 0.1695	0.1318	0.1483	0.1626	0.1623	Lin1	-0.946	0.1677							0.9980		0.9900
1,2-Diphenylhydrazine	1.1670 1.1713	1.2400	1.2357	1.2172	1.1395	Ave		1.1951				3.5		15.0			
trans-Azobenzene	0.6328 0.6383	0.6648	0.6598	0.6747	0.6319	Ave		0.6504				2.8		15.0			
4-Bromophenyl phenyl ether	0.2206 0.2373	0.2389	0.2405	0.2501	0.2358	Ave		0.2372				4.0		15.0			
Hexachlorobenzene	0.2502 0.2531	0.2612	0.2583	0.2695	0.2511	Ave		0.2572				2.9		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1 Analy Batch No.: 133479

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/12/2013 11:22 Calibration End Date: 08/12/2013 13:25 Calibration ID: 14466

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Pentachlorophenol	0.1015 0.1668	0.1448	0.1579	0.1658	0.1614	Lin1	-0.707	0.1672							1.0000		0.9900
Phenanthrene	1.1131 1.0282	1.1187	1.1009	1.0945	1.0186	Ave		1.0790				4.1		15.0			
Anthracene	1.0874 1.0819	1.1490	1.1250	1.1383	1.0687	Ave		1.1084				3.0		15.0			
Carbazole	0.9288 0.9383	0.9937	0.9688	0.9941	0.9339	Ave		0.9596				3.1		15.0			
Di-n-butyl phthalate	1.0806 1.1134	1.1312	1.1504	1.1894	1.1197	Ave		1.1308				3.3		15.0			
Fluoranthene	1.2271 1.2073	1.2594	1.2458	1.2708	1.2011	Ave		1.2353				2.3		15.0			
Pyrene	0.9767 0.8609	0.9956	0.9775	0.9459	0.8753	Ave		0.9387				6.1		15.0			
Butyl benzyl phthalate	0.3822 0.3808	0.4116	0.4203	0.4107	0.3836	Ave		0.3982				4.5		15.0			
Bis(2-ethylhexyl) phthalate	0.5169 0.5339	0.5702	0.5946	0.5853	0.5557	Ave		0.5594				5.4		15.0			
Benz(a)anthracene	1.0164 0.9841	1.0416	1.0643	1.0269	0.9630	Ave		1.0161				3.7		15.0			
Chrysene	1.1262 0.9034	1.1067	1.0318	1.0185	0.9613	Ave		1.0246				8.3		15.0			
Di-n-octyl phthalate	0.8623 0.9298	0.9790	0.9988	0.9775	0.9259	Ave		0.9455				5.3		15.0			
Benzo(b)fluoranthene	1.0484 1.0624	1.0820	1.1198	1.0403	1.0209	Ave		1.0623				3.3		15.0			
Benzo(k)fluoranthene	1.1401 1.0483	1.2310	1.1531	1.1851	1.0820	Ave		1.1399				5.9		15.0			
Benzo(a)pyrene	0.9198 0.9841	1.0132	1.0349	1.0481	0.9839	Ave		0.9973				4.6		15.0			
Indeno(1,2,3-cd)pyrene	1.0484 1.4093	1.2161	1.3127	1.3162	1.2524	Ave		1.2592				9.7		15.0			
Dibenz(a,h)anthracene	0.8224 1.2234	1.0418	1.1430	1.1476	1.1041	Ave		1.0804				13.0		15.0			
Benzo(ghi)perylene	0.8733 1.1447	1.0273	1.0644	1.0089	0.9157	Ave		1.0057				9.8		15.0			
2-Fluorophenol	1.2201 1.1244	1.2484	1.2089	1.2350	1.1398	Ave		1.1961				4.3		15.0			
Phenol-d5	1.4795 1.4485	1.5515	1.5299	1.5503	1.4697	Ave		1.5049				3.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1 Analy Batch No.: 133479

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/12/2013 11:22 Calibration End Date: 08/12/2013 13:25 Calibration ID: 14466

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Nitrobenzene-d5	0.3200 0.3610	0.3630	0.3700	0.3711	0.3532	Ave		0.3564				5.3		15.0			
2-Fluorobiphenyl	1.3185 1.2754	1.3145	1.3288	1.3079	1.2224	Ave		1.2946				3.1		15.0			
2,4,6-Tribromophenol	0.0924 0.1229	0.1172	0.1216	0.1272	0.1215	Ave		0.1171				11.0		15.0			
p-Terphenyl-d14	0.7675 0.7021	0.8076	0.7893	0.7647	0.7135	Ave		0.7575				5.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1 Analy Batch No.: 133479

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/12/2013 11:22 Calibration End Date: 08/12/2013 13:25 Calibration ID: 14466

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-133479/3	U9891.D
Level 2	IC 480-133479/4	U9892.D
Level 3	ICIS 480-133479/5	U9893.D
Level 4	IC 480-133479/6	U9894.D
Level 5	IC 480-133479/7	U9895.D
Level 6	IC 480-133479/8	U9896.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
N-Nitrosodimethylamine	DCB	Ave	4299 148107	17717	44749	74352	116047	5.00 160	20.0	50.0	80.0	120
Pyridine	DCB	Ave	5234 196984	23733	58471	98402	151754	5.00 160	20.0	50.0	80.0	120
Aniline	DCB	Ave	15868 536901	63925	155494	261645	408302	5.00 160	20.0	50.0	80.0	120
Phenol	DCB	Ave	13141 460063	54290	132799	223105	351380	5.00 160	20.0	50.0	80.0	120
Bis(2-chloroethyl)ether	DCB	Ave	10136 328126	41098	97254	161987	252343	5.00 160	20.0	50.0	80.0	120
2-Chlorophenol	DCB	Ave	10400 364476	42001	103906	173024	277463	5.00 160	20.0	50.0	80.0	120
1,3-Dichlorobenzene	DCB	Ave	12122 396061	48034	115592	191022	303029	5.00 160	20.0	50.0	80.0	120
1,4-Dichlorobenzene	DCB	Ave	12438 407152	49454	118410	197186	311439	5.00 160	20.0	50.0	80.0	120
Benzyl alcohol	DCB	Ave	6137 225441	26413	65391	108341	174270	5.00 160	20.0	50.0	80.0	120
1,2-Dichlorobenzene	DCB	Ave	11430 386387	46899	110980	187929	294313	5.00 160	20.0	50.0	80.0	120
2-Methylphenol	DCB	Ave	8693 314902	37247	91362	151642	242634	5.00 160	20.0	50.0	80.0	120
bis (2-chloroisopropyl) ether	DCB	Ave	11038 358240	44993	107836	178352	276637	5.00 160	20.0	50.0	80.0	120
Acetophenone	DCB	Ave	14767 503804	60625	146886	245958	384604	5.00 160	20.0	50.0	80.0	120
N-Nitrosodi-n-propylamine	DCB	Ave	7514 267825	31062	78333	131652	205258	5.00 160	20.0	50.0	80.0	120
4-Methylphenol	DCB	Ave	8753 338923	38663	94888	161264	253784	5.00 160	20.0	50.0	80.0	120
Hexachloroethane	DCB	Ave	4588 157757	18300	45629	75144	120291	5.00 160	20.0	50.0	80.0	120

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1 Analy Batch No.: 133479

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/12/2013 11:22 Calibration End Date: 08/12/2013 13:25 Calibration ID: 14466

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Nitrobenzene	NPT	Ave	11025 395645	47035	113746	191844	300062	5.00 160	20.0	50.0	80.0	120
Isophorone	NPT	Ave	18927 669848	80752	196117	331682	515554	5.00 160	20.0	50.0	80.0	120
2-Nitrophenol	NPT	Ave	4333 205030	21865	57083	96603	155395	5.00 160	20.0	50.0	80.0	120
2,4-Dimethylphenol	NPT	Ave	10464 392225	45917	112794	192898	299114	5.00 160	20.0	50.0	80.0	120
Bis (2-chloroethoxy)methane	NPT	Ave	11662 388880	46084	115062	189101	301313	5.00 160	20.0	50.0	80.0	120
2,4-Dichlorophenol	NPT	Ave	7678 321175	35853	89952	154176	242425	5.00 160	20.0	50.0	80.0	120
1,2,4-Trichlorobenzene	NPT	Ave	10869 373132	44859	109081	181490	284896	5.00 160	20.0	50.0	80.0	120
Naphthalene	NPT	Ave	32733 1053704	127284	308363	515716	804896	5.00 160	20.0	50.0	80.0	120
4-Chloroaniline	NPT	Ave	11814 461231	52630	131849	222057	353937	5.00 160	20.0	50.0	80.0	120
Hexachlorobutadiene	NPT	Ave	7362 250020	29324	71652	120830	190707	5.00 160	20.0	50.0	80.0	120
4-Chloro-3-methylphenol	NPT	Ave	7998 338044	37650	96702	164081	257403	5.00 160	20.0	50.0	80.0	120
2-Methylnaphthalene	NPT	Ave	21528 736509	87163	216246	359031	568506	5.00 160	20.0	50.0	80.0	120
Hexachlorocyclopentadiene	ANT	Lin1	4957 285764	26534	73977	132004	216577	5.00 160	20.0	50.0	80.0	120
1,2,4,5-Tetrachlorobenzene	ANT	Ave	11292 416298	47964	117858	198412	316529	5.00 160	20.0	50.0	80.0	120
2,4,6-Trichlorophenol	ANT	Ave	5932 259282	27824	71650	124054	196050	5.00 160	20.0	50.0	80.0	120
2,4,5-Trichlorophenol	ANT	Ave	5725 272229	29022	76668	131718	208099	5.00 160	20.0	50.0	80.0	120
Biphenyl	ANT	Ave	27942 976325	113080	279639	471212	747935	5.00 160	20.0	50.0	80.0	120
2-Chloronaphthalene	ANT	Ave	21265 779850	87867	218185	369416	588416	5.00 160	20.0	50.0	80.0	120
2-Nitroaniline	ANT	Lin1	3611 220588	22048	60200	105971	168689	5.00 160	20.0	50.0	80.0	120
Dimethyl phthalate	ANT	Ave	25337 884272	105801	262163	440658	682006	5.00 160	20.0	50.0	80.0	120
1,3-Dinitrobenzene	NPT	Lin1	2196 161978	14416	40853	74736	122454	5.00 160	20.0	50.0	80.0	120

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1 Analy Batch No.: 133479

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/12/2013 11:22 Calibration End Date: 08/12/2013 13:25 Calibration ID: 14466

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2,6-Dinitrotoluene	ANT	Ave	4658 214720	22746	59141	102024	164360	5.00 160	20.0	50.0	80.0	120
Acenaphthylene	ANT	Ave	30849 1131978	129159	324145	550051	862807	5.00 160	20.0	50.0	80.0	120
3-Nitroaniline	ANT	Lin1	3449 210995	21574	60325	102395	161119	5.00 160	20.0	50.0	80.0	120
Acenaphthene	ANT	Ave	22642 783672	90710	224344	380685	597723	5.00 160	20.0	50.0	80.0	120
2,4-Dinitrophenol	ANT	Lin1	2269 295514	21015	68177	129881	218153	10.0 320	40.0	100	160	240
4-Nitrophenol	ANT	Lin1	3911 297142	28216	82130	141672	227945	10.0 320	40.0	100	160	240
Dibenzofuran	ANT	Ave	30894 1119799	129361	320139	545895	850944	5.00 160	20.0	50.0	80.0	120
2,4-Dinitrotoluene	ANT	Ave	5564 307207	30913	83730	146067	231138	5.00 160	20.0	50.0	80.0	120
2,3,4,6-Tetrachlorophenol	ANT	Ave	5583 257118	25825	70273	122667	193591	5.00 160	20.0	50.0	80.0	120
Diethyl phthalate	ANT	Ave	24881 845733	106138	259132	424418	655184	5.00 160	20.0	50.0	80.0	120
Fluorene	ANT	Ave	25280 949548	103268	265871	453408	726183	5.00 160	20.0	50.0	80.0	120
4-Chlorophenyl phenyl ether	ANT	Ave	13768 530819	57396	146350	251443	406333	5.00 160	20.0	50.0	80.0	120
4-Nitroaniline	ANT	Lin1	2942 219037	21820	56242	102819	164771	5.00 160	20.0	50.0	80.0	120
4,6-Dinitro-2-methylphenol	PHN	Lin1	6515 431712	38109	107136	193417	320460	10.0 320	40.0	100	160	240
1,2-Diphenylhydrazine	ANT	Ave	22589 812761	96125	238290	401202	623924	5.00 160	20.0	50.0	80.0	120
trans-Azobenzene	PHN	Ave	22589 812761	96125	238290	401202	623924	5.00 160	20.0	50.0	80.0	120
4-Bromophenyl phenyl ether	PHN	Ave	7875 302094	34544	86856	148698	232782	5.00 160	20.0	50.0	80.0	120
Hexachlorobenzene	PHN	Ave	8932 322254	37775	93282	160245	247882	5.00 160	20.0	50.0	80.0	120
Pentachlorophenol	PHN	Lin1	7250 424751	41879	114052	197222	318613	10.0 320	40.0	100	160	240
Phenanthrene	PHN	Ave	39736 1309205	161770	397581	650811	1005652	5.00 160	20.0	50.0	80.0	120
Anthracene	PHN	Ave	38818 1377603	166146	406286	676845	1055135	5.00 160	20.0	50.0	80.0	120

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1 Analy Batch No.: 133479

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/12/2013 11:22 Calibration End Date: 08/12/2013 13:25 Calibration ID: 14466

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Carbazole	PHN	Ave	33157 1194690	143685	349898	591109	922083	5.00 160	20.0	50.0	80.0	120
Di-n-butyl phthalate	PHN	Ave	38576 1417690	163570	415478	707261	1105487	5.00 160	20.0	50.0	80.0	120
Fluoranthene	PHN	Ave	43805 1537237	182109	449920	755671	1185871	5.00 160	20.0	50.0	80.0	120
Pyrene	CRY	Ave	45681 1585945	188061	463101	785224	1223956	5.00 160	20.0	50.0	80.0	120
Butyl benzyl phthalate	CRY	Ave	17875 701418	77752	199098	340883	536328	5.00 160	20.0	50.0	80.0	120
Bis(2-ethylhexyl) phthalate	CRY	Ave	24174 983556	107705	281695	485845	777079	5.00 160	20.0	50.0	80.0	120
Benz(a)anthracene	CRY	Ave	47537 1812743	196768	504222	852440	1346563	5.00 160	20.0	50.0	80.0	120
Chrysene	CRY	Ave	52673 1664141	209056	488814	845462	1344145	5.00 160	20.0	50.0	80.0	120
Di-n-octyl phthalate	CRY	Ave	40330 1712757	184939	473169	811385	1294632	5.00 160	20.0	50.0	80.0	120
Benzo(b)fluoranthene	PRY	Ave	49471 2016115	202810	527100	851133	1423193	5.00 160	20.0	50.0	80.0	120
Benzo(k)fluoranthene	PRY	Ave	53800 1989419	230747	542753	969522	1508410	5.00 160	20.0	50.0	80.0	120
Benzo(a)pyrene	PRY	Ave	43405 1867526	189916	487153	857436	1371651	5.00 160	20.0	50.0	80.0	120
Indeno(1,2,3-cd)pyrene	PRY	Ave	49473 2674328	227949	617876	1076825	1746043	5.00 160	20.0	50.0	80.0	120
Dibenz(a,h)anthracene	PRY	Ave	38806 2321649	195290	537994	938920	1539180	5.00 160	20.0	50.0	80.0	120
Benzo(ghi)perylene	PRY	Ave	41209 2172252	192558	501009	825386	1276528	5.00 160	20.0	50.0	80.0	120
2-Fluorophenol	DCB	Ave	9597 307186	38470	91549	154267	236507	5.00 160	20.0	50.0	80.0	120
Phenol-d5	DCB	Ave	11638 395731	47812	115853	193649	304961	5.00 160	20.0	50.0	80.0	120
Nitrobenzene-d5	NPT	Ave	10015 393340	45089	112637	190794	300662	5.00 160	20.0	50.0	80.0	120
2-Fluorobiphenyl	ANT	Ave	25522 885027	101901	256261	431100	669308	5.00 160	20.0	50.0	80.0	120
2,4,6-Tribromophenol	PHN	Ave	3299 156478	16943	43898	75608	120004	5.00 160	20.0	50.0	80.0	120
p-Terphenyl-d14	CRY	Ave	35897 1293336	152554	373917	634796	997766	5.00 160	20.0	50.0	80.0	120

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1 Analy Batch No.: 133479
SDG No.: _____
Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 08/12/2013 11:22 Calibration End Date: 08/12/2013 13:25 Calibration ID: 14466

Curve Type Legend:

Ave = Average ISTD Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9891.D
 Lims ID: IC - 5 PT Client ID:
 Inject. Date: 12-Aug-2013 11:22:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 1
 Sample ID: 480-0024271-003
 Misc. Info.:
 Operator: anm Instrument ID: HP5973U
 Injection Vol: 1.0 ul ALS Bottle#: 3
 Lims Batch ID: 133479 Lims Sample ID: 3
 Sublist: chrom-U-8270*sub25
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U-8270.m
 Last Update: 03-Sep-2013 12:51:39 Calib Date: 12-Aug-2013 13:25:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9896.D
 Limit Group: MB - 8270C ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: RXI-5Sil MS Column Dia: 0.25 mm
 Process Host: XAWRK003

First Level Reviewer: mcgoverna

Date: 12-Aug-2013 14:36:29

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.938	5.938	0.0	97	62928	40.0	
* 2 Naphthalene-d8	136	7.589	7.589	0.0	99	250403	40.0	
* 3 Acenaphthene-d10	164	9.854	9.854	0.0	89	154854	40.0	
* 4 Phenanthrene-d10	188	11.558	11.558	0.0	84	285584	40.0	
* 5 Chrysene-d12	240	14.047	14.047	0.0	78	374158	40.0	
* 6 Perylene-d12	264	15.388	15.388	0.0	80	377505	40.0	
\$ 9 2-Fluorophenol	112	4.255	4.255	0.0	24	9597	5.10	
\$ 10 Phenol-d5	99	5.489	5.489	0.0	53	11638	4.92	
\$ 11 Nitrobenzene-d5	82	6.654	6.654	0.0	64	10015	4.49	
\$ 12 2-Fluorobiphenyl	172	8.999	8.999	0.0	75	25522	5.09	
\$ 13 2,4,6-Tribromophenol	330	10.805	10.805	0.0	1	3299	3.95	
\$ 14 p-Terphenyl-d14	244	13.107	13.107	0.0	63	35897	5.07	
80 1,4-Dioxane	88		2.422					
81 N-Nitrosodimethylamine	42	2.658	2.658	0.0	61	4299	4.81	
82 Pyridine	52	2.727	2.727	0.0	63	5234	4.49	
89 Phenol	94	5.505	5.505	0.0	68	13141	4.84	
90 Aniline	93	5.505	5.505	0.0	65	15868	4.97	
91 Bis(2-chloroethyl)ether	93	5.591	5.591	0.0	64	10136	5.07	
93 2-Chlorophenol	128	5.671	5.671	0.0	61	10400	4.89	
94 1,3-Dichlorobenzene	146	5.863	5.863	0.0	57	12122	5.10	
95 1,4-Dichlorobenzene	146	5.959	5.959	0.0	63	12438	5.09	
96 Benzyl alcohol	108	6.119	6.119	0.0	63	6137	4.65	
97 1,2-Dichlorobenzene	146	6.157	6.157	0.0	58	11430	4.97	
98 2-Methylphenol	108	6.290	6.290	0.0	70	8693	4.70	
99 2,2'-oxybis[1-chloropropane]	45	6.301	6.301	0.0	70	11038	5.04	
104 Acetophenone	105	6.461	6.461	0.0	75	14767	4.92	
101 N-Nitrosodi-n-propylamine	70	6.467	6.467	0.0	70	7514	4.76	
102 4-Methylphenol	108	6.499	6.499	0.0	70	8753	4.53	
106 Hexachloroethane	117	6.595	6.595	0.0	72	4588	4.95	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
107 Nitrobenzene	77	6.680	6.680	0.0	66	11025	4.82	
110 Isophorone	82	6.996	6.996	0.0	69	18927	4.82	
111 2-Nitrophenol	139	7.097	7.097	0.0	44	4333	3.92	
112 2,4-Dimethylphenol	107	7.183	7.183	0.0	65	10464	4.64	
115 Bis(2-chloroethoxy)methane	93	7.295	7.295	0.0	76	11662	5.08	
117 2,4-Dichlorophenol	162	7.434	7.434	0.0	35	7678	4.31	
120 1,2,4-Trichlorobenzene	180	7.519	7.519	0.0	50	10869	4.97	
121 Naphthalene	128	7.615	7.615	0.0	83	32733	5.23	
123 4-Chloroaniline	127	7.706	7.706	0.0	39	11814	4.52	
126 Hexachlorobutadiene	225	7.797	7.797	0.0	50	7362	5.06	
131 4-Chloro-3-methylphenol	107	8.368	8.368	0.0	52	7998	4.24	
133 2-Methylnaphthalene	142	8.518	8.518	0.0	69	21528	4.98	
136 Hexachlorocyclopentadiene	237	8.732	8.732	0.0	30	4957	5.32	
138 1,2,4,5-Tetrachlorobenzene	216	8.737	8.737	0.0	59	11292	4.87	
139 2,4,6-Trichlorophenol	196	8.897	8.897	0.0	23	5932	4.29	
140 2,4,5-Trichlorophenol	196	8.967	8.967	0.0	12	5725	3.96	
144 1,1'-Biphenyl	154	9.122	9.122	0.0	84	27942	5.06	
143 2-Chloronaphthalene	162	9.138	9.138	0.0	74	21265	4.93	
145 2-Nitroaniline	65	9.282	9.282	0.0	1	3611	4.97	
147 Dimethyl phthalate	163	9.528	9.528	0.0	81	25337	4.98	
50 1,3-Dinitrobenzene	168	9.560	9.560	0.0	20	2196	5.41	
148 2,6-Dinitrotoluene	165	9.597	9.597	0.0	34	4658	4.10	
149 Acenaphthylene	152	9.672	9.672	0.0	71	30849	4.87	
150 3-Nitroaniline	138	9.816	9.816	0.0	22	3449	4.80	
151 Acenaphthene	153	9.891	9.891	0.0	75	22642	5.10	
152 2,4-Dinitrophenol	184	9.950	9.950	0.0	2	2269	11.7	
153 4-Nitrophenol	109	10.126	10.126	0.0	1	3911	10.0	
154 2,4-Dinitrotoluene	165	10.105	10.105	0.0	15	5564	3.55	
155 Dibenzofuran	168	10.110	10.110	0.0	74	30894	4.91	
158 2,3,4,6-Tetrachlorophenol	232	10.281	10.281	0.0	6	5583	4.16	
160 Diethyl phthalate	149	10.409	10.409	0.0	85	24881	5.01	
161 Fluorene	166	10.521	10.521	0.0	66	25280	4.84	
162 4-Chlorophenyl phenyl ether	204	10.532	10.532	0.0	58	13768	4.76	
164 4-Nitroaniline	138	10.564	10.564	0.0	1	2942	4.98	
166 4,6-Dinitro-2-methylphenol	198	10.591	10.591	0.0	33	6515	11.1	
170 Azobenzene	77	10.714	10.714	0.0	91	22589	4.86	
168 1,2-Diphenylhydrazine	77	10.714	10.714	0.0	93	22589	4.88	
176 4-Bromophenyl phenyl ether	248	11.082	11.082	0.0	61	7875	4.65	
177 Hexachlorobenzene	284	11.146	11.146	0.0	50	8932	4.86	
181 Pentachlorophenol	266	11.376	11.376	0.0	7	7250	10.3	
185 Phenanthrene	178	11.579	11.579	0.0	61	39736	5.16	
188 Anthracene	178	11.633	11.633	0.0	70	38818	4.91	
189 Carbazole	167	11.809	11.809	0.0	61	33157	4.84	
192 Di-n-butyl phthalate	149	12.161	12.161	0.0	92	38576	4.78	
197 Fluoranthene	202	12.754	12.754	0.0	70	43805	4.97	
199 Pyrene	202	12.968	12.968	0.0	95	45681	5.20	
205 Butyl benzyl phthalate	149	13.534	13.534	0.0	80	17875	4.80	
210 Bis(2-ethylhexyl) phthalate	149	14.026	14.026	0.0	90	24174	4.62	
209 Benzo[a]anthracene	228	14.037	14.037	0.0	78	47537	5.00	
211 Chrysene	228	14.069	14.069	0.0	70	52673	5.50	
212 Di-n-octyl phthalate	149	14.582	14.582	0.0	82	40330	4.56	
213 Benzo[b]fluoranthene	252	15.004	15.004	0.0	73	49471	4.93	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
214 Benzo[k]fluoranthene	252	15.030	15.030	0.0	73	53800	5.00	
217 Benzo[a]pyrene	252	15.329	15.329	0.0	85	43405	4.61	
219 Indeno[1,2,3-cd]pyrene	276	16.590	16.590	0.0	81	49473	4.16	
220 Dibenz(a,h)anthracene	278	16.612	16.612	0.0	2	38806	3.81	
221 Benzo[g,h,i]perylene	276	16.932	16.932	0.0	59	41209	4.34	
S 78 3-Methylphenol	1				0		4.53	
S 222 Total Cresols	1				0		9.23	
S 77 3 & 4 Methylphenol	108				0		4.53	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9891.D

Injection Date: 12-Aug-2013 11:22:30

Limit Group: MB - 8270C ICAL

Client ID:

Instrument ID: HP5973U

Lims Batch ID: 133479

Lims Sample ID: 3

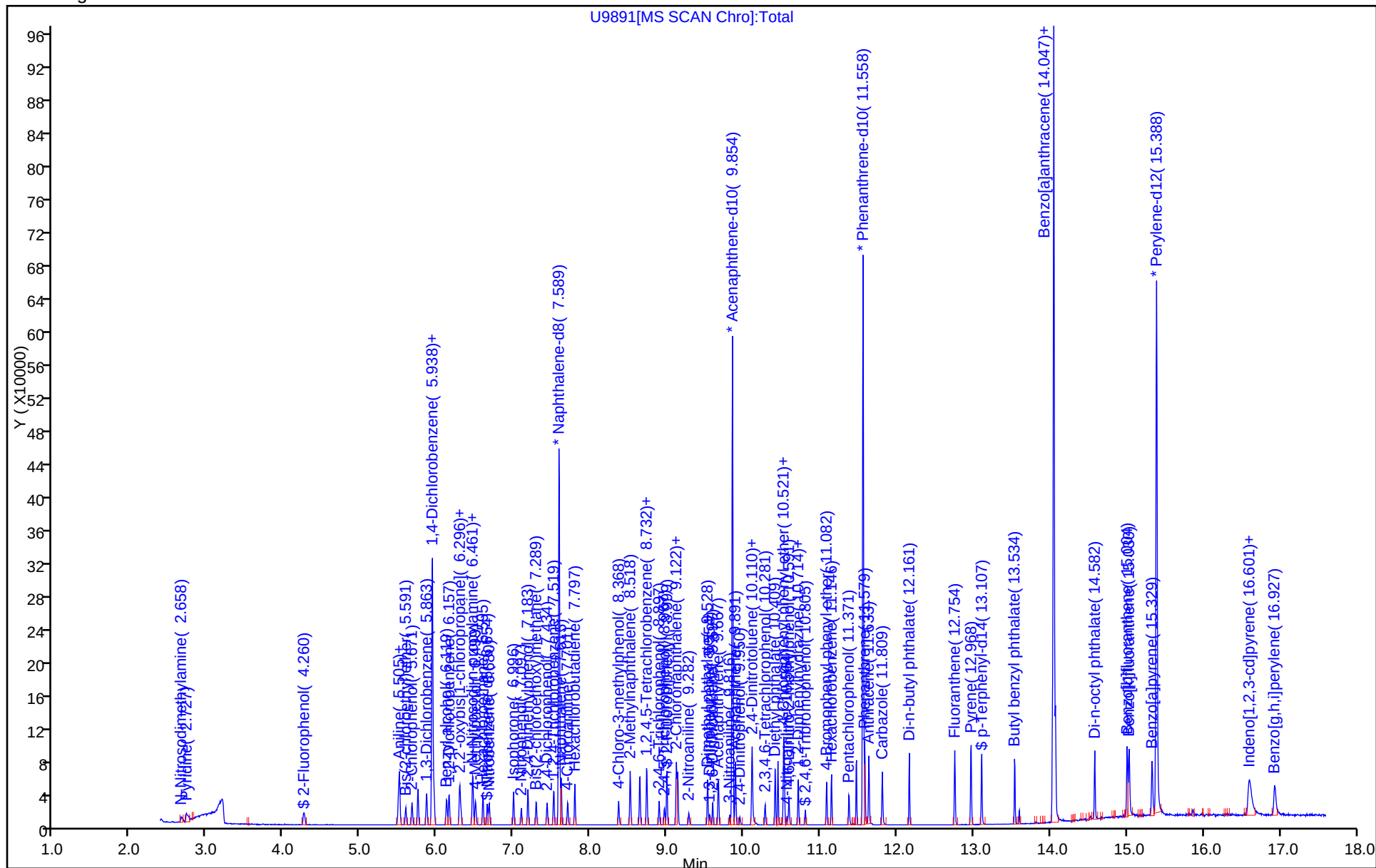
Operator ID: anm

Injection Vol: 1.0 ul

Column Type: RXI-5Sil MS

Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9892.D
 Lims ID: IC - 20 PT Client ID:
 Inject. Date: 12-Aug-2013 11:50:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 2
 Sample ID: 480-0024271-004
 Misc. Info.:
 Operator: anm Instrument ID: HP5973U
 Injection Vol: 1.0 ul ALS Bottle#: 4
 Lims Batch ID: 133479 Lims Sample ID: 4
 Sublist: chrom-U-8270*sub25
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U-8270.m
 Last Update: 03-Sep-2013 12:51:43 Calib Date: 12-Aug-2013 13:25:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9896.D
 Limit Group: MB - 8270C ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: RXI-5Sil MS Column Dia: 0.25 mm
 Process Host: XAWRK003

First Level Reviewer: mcgoverna

Date: 12-Aug-2013 14:36:26

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.938	5.938	0.0	88	61633	40.0	
* 2 Naphthalene-d8	136	7.588	7.589	-0.001	98	248407	40.0	
* 3 Acenaphthene-d10	164	9.854	9.854	0.0	81	155036	40.0	
* 4 Phenanthrene-d10	188	11.558	11.558	0.0	84	289204	40.0	
* 5 Chrysene-d12	240	14.047	14.047	0.0	76	377803	40.0	
* 6 Perylene-d12	264	15.388	15.388	0.0	81	374892	40.0	
\$ 9 2-Fluorophenol	112	4.255	4.255	0.0	93	38470	20.9	
\$ 10 Phenol-d5	99	5.489	5.489	0.0	89	47812	20.6	
\$ 11 Nitrobenzene-d5	82	6.654	6.654	0.0	87	45089	20.4	
\$ 12 2-Fluorobiphenyl	172	8.999	8.999	0.0	97	101901	20.3	
\$ 13 2,4,6-Tribromophenol	330	10.804	10.805	-0.001	79	16943	20.0	
\$ 14 p-Terphenyl-d14	244	13.107	13.107	0.0	75	152554	21.3	
80 1,4-Dioxane	88		2.422					
81 N-Nitrosodimethylamine	42	2.652	2.658	-0.006	69	17717	20.2	
82 Pyridine	52	2.716	2.727	-0.011	88	23733	20.8	
89 Phenol	94	5.505	5.505	0.0	79	54290	20.4	
90 Aniline	93	5.505	5.505	0.0	70	63925	20.4	
91 Bis(2-chloroethyl)ether	93	5.590	5.591	-0.001	89	41098	21.0	
93 2-Chlorophenol	128	5.671	5.671	0.0	90	42001	20.2	
94 1,3-Dichlorobenzene	146	5.863	5.863	0.0	85	48034	20.6	
95 1,4-Dichlorobenzene	146	5.959	5.959	0.0	74	49454	20.7	
96 Benzyl alcohol	108	6.119	6.119	0.0	78	26413	20.4	
97 1,2-Dichlorobenzene	146	6.157	6.157	0.0	84	46899	20.8	
98 2-Methylphenol	108	6.290	6.290	0.0	92	37247	20.6	
99 2,2'-oxybis[1-chloropropane]	45	6.301	6.301	0.0	79	44993	21.0	
104 Acetophenone	105	6.461	6.461	0.0	88	60625	20.6	
101 N-Nitrosodi-n-propylamine	70	6.467	6.467	0.0	82	31062	20.1	
102 4-Methylphenol	108	6.499	6.499	0.0	89	38663	20.4	
106 Hexachloroethane	117	6.595	6.595	0.0	88	18300	20.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
107 Nitrobenzene	77	6.680	6.680	0.0	79	47035	20.7	
110 Isophorone	82	6.995	6.996	-0.001	94	80752	20.7	
111 2-Nitrophenol	139	7.097	7.097	0.0	91	21865	19.9	
112 2,4-Dimethylphenol	107	7.182	7.183	0.0	98	45917	20.5	
115 Bis(2-chloroethoxy)methane	93	7.289	7.295	-0.006	95	46084	20.2	
117 2,4-Dichlorophenol	162	7.433	7.434	-0.001	86	35853	20.3	
120 1,2,4-Trichlorobenzene	180	7.519	7.519	0.0	86	44859	20.7	
121 Naphthalene	128	7.615	7.615	0.0	67	127284	20.5	
123 4-Chloroaniline	127	7.701	7.706	-0.005	92	52630	20.3	
126 Hexachlorobutadiene	225	7.797	7.797	0.0	85	29324	20.3	
131 4-Chloro-3-methylphenol	107	8.363	8.368	-0.005	85	37650	20.1	
133 2-Methylnaphthalene	142	8.518	8.518	0.0	85	87163	20.3	
136 Hexachlorocyclopentadiene	237	8.732	8.732	0.0	87	26534	18.9	
138 1,2,4,5-Tetrachlorobenzene	216	8.737	8.737	0.0	92	47964	20.7	
139 2,4,6-Trichlorophenol	196	8.892	8.897	-0.005	88	27824	20.1	
140 2,4,5-Trichlorophenol	196	8.956	8.967	-0.011	82	29022	20.1	
144 1,1'-Biphenyl	154	9.122	9.122	0.0	94	113080	20.5	
143 2-Chloronaphthalene	162	9.138	9.138	0.0	94	87867	20.4	
145 2-Nitroaniline	65	9.282	9.282	0.0	63	22048	19.8	
147 Dimethyl phthalate	163	9.533	9.528	0.005	97	105801	20.8	
50 1,3-Dinitrobenzene	168	9.554	9.560	-0.006	76	14416	18.6	
148 2,6-Dinitrotoluene	165	9.597	9.597	0.0	83	22746	20.0	
149 Acenaphthylene	152	9.672	9.672	0.0	83	129159	20.4	
150 3-Nitroaniline	138	9.816	9.816	0.0	87	21574	19.9	
151 Acenaphthene	153	9.896	9.891	0.005	92	90710	20.4	
152 2,4-Dinitrophenol	184	9.944	9.950	-0.006	74	21015	34.8	
154 2,4-Dinitrotoluene	165	10.105	10.105	0.0	86	30913	19.7	
155 Dibenzofuran	168	10.110	10.110	0.0	79	129361	20.5	
153 4-Nitrophenol	109	10.094	10.126	-0.032	83	28216	38.8	
158 2,3,4,6-Tetrachlorophenol	232	10.276	10.281	-0.005	89	25825	19.2	
160 Diethyl phthalate	149	10.414	10.409	0.005	95	106138	21.3	
161 Fluorene	166	10.521	10.521	0.0	71	103268	19.8	
162 4-Chlorophenyl phenyl ether	204	10.532	10.532	0.0	89	57396	19.8	
164 4-Nitroaniline	138	10.559	10.564	-0.005	64	21820	20.4	
166 4,6-Dinitro-2-methylphenol	198	10.591	10.591	0.0	83	38109	37.1	
170 Azobenzene	77	10.714	10.714	0.0	97	96125	20.4	
168 1,2-Diphenylhydrazine	77	10.714	10.714	0.0	97	96125	20.8	
176 4-Bromophenyl phenyl ether	248	11.082	11.082	0.0	86	34544	20.1	
177 Hexachlorobenzene	284	11.146	11.146	0.0	75	37775	20.3	
181 Pentachlorophenol	266	11.371	11.376	-0.005	78	41879	38.9	
185 Phenanthrene	178	11.584	11.579	0.005	80	161770	20.7	
188 Anthracene	178	11.638	11.633	0.005	83	166146	20.7	
189 Carbazole	167	11.809	11.809	0.0	83	143685	20.7	
192 Di-n-butyl phthalate	149	12.161	12.161	0.0	100	163570	20.0	
197 Fluoranthene	202	12.754	12.754	0.0	75	182109	20.4	
199 Pyrene	202	12.968	12.968	0.0	96	188061	21.2	
205 Butyl benzyl phthalate	149	13.540	13.534	0.006	94	77752	20.7	
210 Bis(2-ethylhexyl) phthalate	149	14.031	14.026	0.005	93	107705	20.4	
209 Benzo[a]anthracene	228	14.037	14.037	-0.001	87	196768	20.5	
211 Chrysene	228	14.069	14.069	0.0	78	209056	21.6	
212 Di-n-octyl phthalate	149	14.581	14.582	-0.001	98	184939	20.7	
213 Benzo[b]fluoranthene	252	15.009	15.004	0.005	79	202810	20.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
214 Benzo[k]fluoranthene	252	15.030	15.030	0.0	79	230747	21.6	
217 Benzo[a]pyrene	252	15.329	15.329	0.0	81	189916	20.3	
219 Indeno[1,2,3-cd]pyrene	276	16.590	16.590	0.0	79	227949	19.3	
220 Dibenz(a,h)anthracene	278	16.595	16.612	-0.017	31	195290	19.3	
221 Benzo[g,h,i]perylene	276	16.932	16.932	0.0	70	192558	20.4	
S 78 3-Methylphenol	1				0		20.4	
S 222 Total Cresols	1				0		41.0	
S 77 3 & 4 Methylphenol	108				0		20.4	

Data File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9892.D

Limit Group: MB - 8270C ICAL

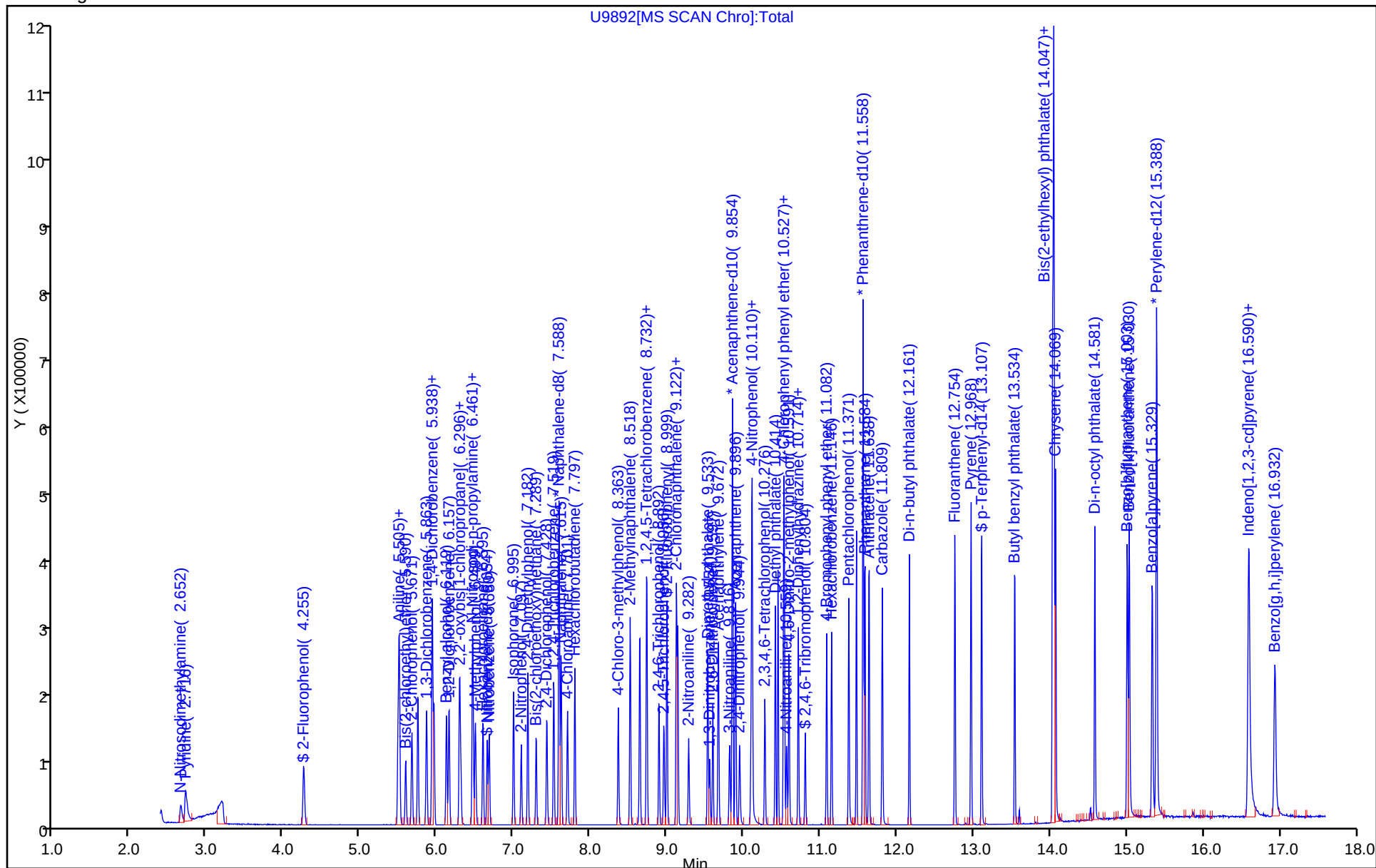
Instrument ID: HP5973U

Lims Sample ID: 4

Injection Vol: 1.0 ul

Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9893.D
 Lims ID: ICIS - 50 PT Client ID:
 Inject. Date: 12-Aug-2013 12:14:30 Dil. Factor: 1.0000
 Sample Type: ICIS Calib Level: 3
 Sample ID: 480-0024271-005
 Misc. Info.:
 Operator: anm Instrument ID: HP5973U
 Injection Vol: 1.0 ul ALS Bottle#: 5
 Lims Batch ID: 133479 Lims Sample ID: 5
 Sublist: chrom-U-8270*sub25
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U-8270.m
 Last Update: 03-Sep-2013 12:51:47 Calib Date: 12-Aug-2013 13:25:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9896.D
 Limit Group: MB - 8270C ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: RXI-5Sil MS Column Dia: 0.25 mm
 Process Host: XAWRK003

First Level Reviewer: mcgoverna

Date: 12-Aug-2013 14:36:23

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.932	5.932	0.0	84	60582	40.0	
* 2 Naphthalene-d8	136	7.594	7.594	0.0	99	243528	40.0	
* 3 Acenaphthene-d10	164	9.854	9.854	0.0	77	154276	40.0	
* 4 Phenanthrene-d10	188	11.558	11.558	0.0	83	288919	40.0	
* 5 Chrysene-d12	240	14.053	14.053	0.0	75	378998	40.0	
* 6 Perylene-d12	264	15.394	15.394	0.0	80	376562	40.0	
\$ 9 2-Fluorophenol	112	4.255	4.255	0.0	98	91549	50.5	
\$ 10 Phenol-d5	99	5.484	5.484	0.0	87	115853	50.8	
\$ 11 Nitrobenzene-d5	82	6.654	6.654	0.0	92	112637	51.9	
\$ 12 2-Fluorobiphenyl	172	8.999	8.999	0.0	99	256261	51.3	
\$ 13 2,4,6-Tribromophenol	330	10.805	10.805	0.0	91	43898	51.9	
\$ 14 p-Terphenyl-d14	244	13.107	13.107	0.0	79	373917	52.1	
80 1,4-Dioxane	88		2.422					
81 N-Nitrosodimethylamine	42	2.647	2.647	0.0	78	44749	52.0	
82 Pyridine	52	2.711	2.711	0.0	92	58471	52.1	
89 Phenol	94	5.505	5.505	0.0	80	132799	50.8	
90 Aniline	93	5.505	5.505	0.0	70	155494	50.6	
91 Bis(2-chloroethyl)ether	93	5.590	5.590	0.0	87	97254	50.6	
93 2-Chlorophenol	128	5.671	5.671	0.0	93	103906	50.7	
94 1,3-Dichlorobenzene	146	5.863	5.863	0.0	87	115592	50.5	
95 1,4-Dichlorobenzene	146	5.959	5.959	0.0	76	118410	50.3	
96 Benzyl alcohol	108	6.119	6.119	0.0	86	65391	51.5	
97 1,2-Dichlorobenzene	146	6.157	6.157	0.0	84	110980	50.1	
98 2-Methylphenol	108	6.290	6.290	0.0	96	91362	51.3	
99 2,2'-oxybis[1-chloropropane]	45	6.306	6.306	0.0	85	107836	51.1	
104 Acetophenone	105	6.461	6.461	0.0	92	146886	50.8	
101 N-Nitrosodi-n-propylamine	70	6.472	6.472	0.0	84	78333	51.5	
102 4-Methylphenol	108	6.499	6.499	0.0	92	94888	51.0	
106 Hexachloroethane	117	6.595	6.595	0.0	90	45629	51.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
107 Nitrobenzene	77	6.680	6.680	0.0	80	113746	51.1	
110 Isophorone	82	6.996	6.996	0.0	95	196117	51.3	
111 2-Nitrophenol	139	7.097	7.097	0.0	99	57083	53.0	
112 2,4-Dimethylphenol	107	7.182	7.182	0.0	98	112794	51.4	
115 Bis(2-chloroethoxy)methane	93	7.295	7.295	0.0	99	115062	51.5	
117 2,4-Dichlorophenol	162	7.428	7.428	0.0	90	89952	51.9	
120 1,2,4-Trichlorobenzene	180	7.524	7.524	0.0	87	109081	51.3	
121 Naphthalene	128	7.621	7.621	0.0	79	308363	50.7	
123 4-Chloroaniline	127	7.701	7.701	0.0	92	131849	51.9	
126 Hexachlorobutadiene	225	7.797	7.797	0.0	88	71652	50.6	
131 4-Chloro-3-methylphenol	107	8.363	8.363	0.0	89	96702	52.7	
133 2-Methylnaphthalene	142	8.518	8.518	0.0	84	216246	51.5	
136 Hexachlorocyclopentadiene	237	8.732	8.732	0.0	91	73977	49.0	
138 1,2,4,5-Tetrachlorobenzene	216	8.737	8.737	0.0	90	117858	51.0	
139 2,4,6-Trichlorophenol	196	8.892	8.892	0.0	93	71650	52.0	
140 2,4,5-Trichlorophenol	196	8.956	8.956	0.0	89	76668	53.3	
144 1,1'-Biphenyl	154	9.122	9.122	0.0	95	279639	50.8	
143 2-Chloronaphthalene	162	9.143	9.143	0.0	95	218185	50.8	
145 2-Nitroaniline	65	9.282	9.282	0.0	71	60200	50.6	
147 Dimethyl phthalate	163	9.538	9.538	0.0	98	262163	51.7	
50 1,3-Dinitrobenzene	168	9.560	9.560	0.0	81	40853	48.1	
148 2,6-Dinitrotoluene	165	9.603	9.603	0.0	87	59141	52.3	
149 Acenaphthylene	152	9.672	9.672	0.0	83	324145	51.4	
150 3-Nitroaniline	138	9.822	9.822	0.0	90	60325	52.5	
151 Acenaphthene	153	9.896	9.896	0.0	93	224344	50.7	
152 2,4-Dinitrophenol	184	9.950	9.950	0.0	82	68177	93.2	
154 2,4-Dinitrotoluene	165	10.110	10.110	0.0	83	83730	53.6	
155 Dibenzofuran	168	10.110	10.110	0.0	82	320139	51.1	
153 4-Nitrophenol	109	10.089	10.089	0.0	90	82130	103.2	
158 2,3,4,6-Tetrachlorophenol	232	10.276	10.276	0.0	92	70273	52.5	
160 Diethyl phthalate	149	10.415	10.415	0.0	96	259132	52.3	
161 Fluorene	166	10.521	10.521	0.0	73	265871	51.1	
162 4-Chlorophenyl phenyl ether	204	10.532	10.532	0.0	90	146350	50.8	
164 4-Nitroaniline	138	10.569	10.569	0.0	72	56242	48.7	
166 4,6-Dinitro-2-methylphenol	198	10.596	10.596	0.0	86	107136	94.1	
170 Azobenzene	77	10.714	10.714	0.0	96	238290	50.7	
168 1,2-Diphenylhydrazine	77	10.714	10.714	0.0	97	238290	51.7	
176 4-Bromophenyl phenyl ether	248	11.082	11.082	0.0	89	86856	50.7	
177 Hexachlorobenzene	284	11.152	11.152	0.0	82	93282	50.2	
181 Pentachlorophenol	266	11.376	11.376	0.0	84	114052	98.7	
185 Phenanthrene	178	11.584	11.584	0.0	83	397581	51.0	
188 Anthracene	178	11.638	11.638	0.0	82	406286	50.7	
189 Carbazole	167	11.809	11.809	0.0	94	349898	50.5	
192 Di-n-butyl phthalate	149	12.161	12.161	0.0	100	415478	50.9	
197 Fluoranthene	202	12.754	12.754	0.0	81	449920	50.4	
199 Pyrene	202	12.968	12.968	0.0	97	463101	52.1	
205 Butyl benzyl phthalate	149	13.540	13.540	0.0	95	199098	52.8	
210 Bis(2-ethylhexyl) phthalate	149	14.031	14.031	0.0	93	281695	53.1	
209 Benzo[a]anthracene	228	14.042	14.042	0.0	86	504222	52.4	
211 Chrysene	228	14.074	14.074	0.0	80	488814	50.3	
212 Di-n-octyl phthalate	149	14.581	14.581	0.0	99	473169	52.8	
213 Benzo[b]fluoranthene	252	15.009	15.009	0.0	75	527100	52.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
214 Benzo[k]fluoranthene	252	15.036	15.036	0.0	79	542753	50.6	
217 Benzo[a]pyrene	252	15.335	15.335	0.0	81	487153	51.9	
219 Indeno[1,2,3-cd]pyrene	276	16.596	16.596	0.0	71	617876	52.1	
220 Dibenz(a,h)anthracene	278	16.601	16.601	0.0	47	537994	52.9	
221 Benzo[g,h,i]perylene	276	16.943	16.943	0.0	74	501009	52.9	
S 78 3-Methylphenol	1				0		51.0	
S 222 Total Cresols	1				0		102.3	
S 77 3 & 4 Methylphenol	108				0		51.0	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9893.D

Injection Date: 12-Aug-2013 12:14:30

Limit Group: MB - 8270C ICAL

Client ID:

Instrument ID: HP5973U

Lims Batch ID: 133479

Lims Sample ID: 5

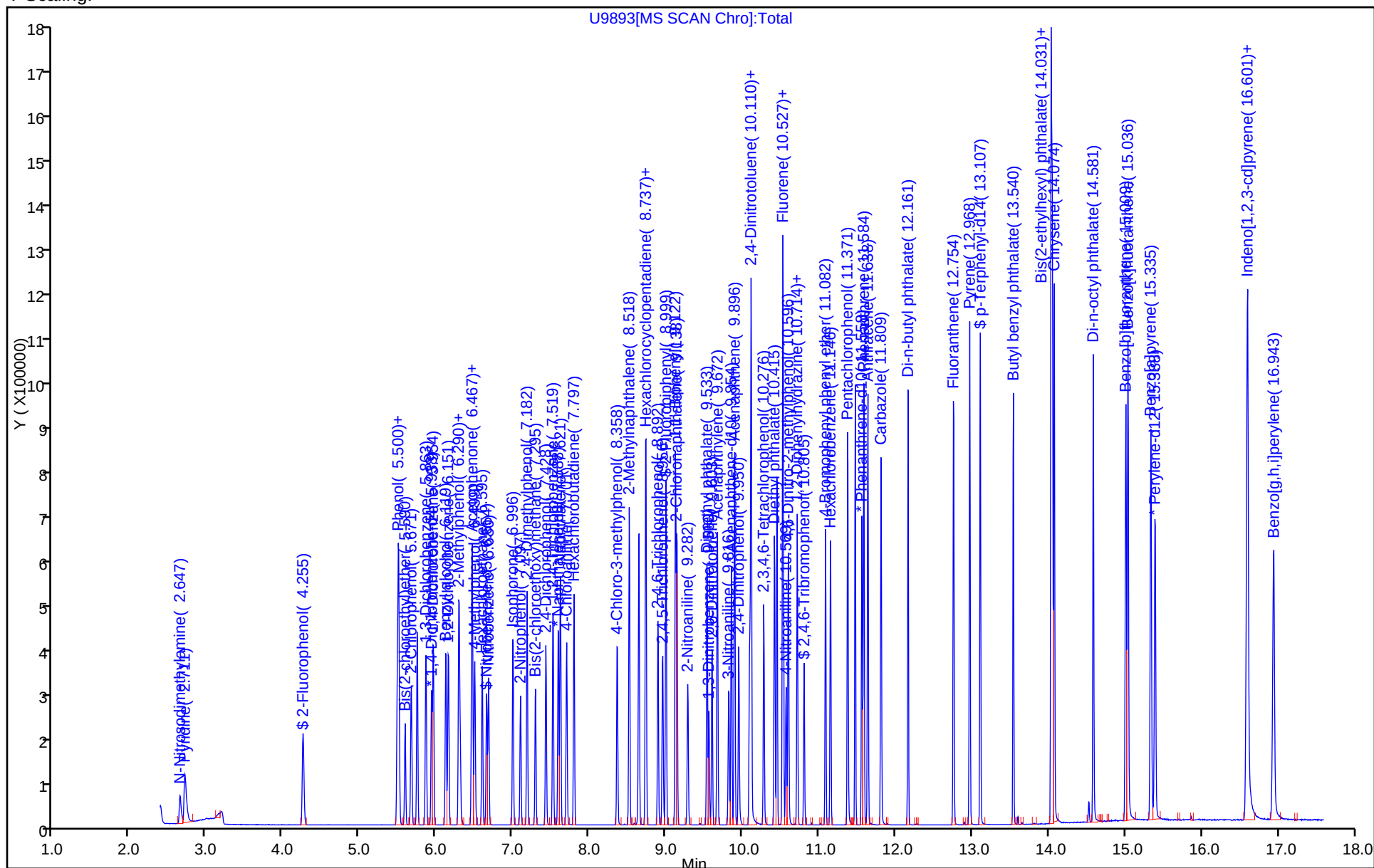
Operator ID: anm

Injection Vol: 1.0 ul

Column Type: RXI-5Sil MS

Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9894.D
 Lims ID: IC - 80 PT Client ID:
 Inject. Date: 12-Aug-2013 12:38:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 4
 Sample ID: 480-0024271-006
 Misc. Info.:
 Operator: anm Instrument ID: HP5973U
 Injection Vol: 1.0 ul ALS Bottle#: 6
 Lims Batch ID: 133479 Lims Sample ID: 6
 Sublist: chrom-U-8270*sub25
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U-8270.m
 Last Update: 03-Sep-2013 12:51:51 Calib Date: 12-Aug-2013 13:25:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9896.D
 Limit Group: MB - 8270C ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: RXI-5Sil MS Column Dia: 0.25 mm
 Process Host: XAWRK003

First Level Reviewer: mcgoverna

Date: 12-Aug-2013 14:36:20

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.937	5.932	0.005	86	62457	40.0	
* 2 Naphthalene-d8	136	7.594	7.594	0.0	98	257070	40.0	
* 3 Acenaphthene-d10	164	9.853	9.854	-0.001	81	164800	40.0	
* 4 Phenanthrene-d10	188	11.563	11.558	0.005	84	297312	40.0	
* 5 Chrysene-d12	240	14.052	14.053	-0.001	75	415050	40.0	
* 6 Perylene-d12	264	15.393	15.394	-0.001	80	409062	40.0	
\$ 9 2-Fluorophenol	112	4.260	4.255	0.005	97	154267	82.6	
\$ 10 Phenol-d5	99	5.489	5.484	0.005	91	193649	82.4	
\$ 11 Nitrobenzene-d5	82	6.659	6.654	0.005	92	190794	83.3	
\$ 12 2-Fluorobiphenyl	172	8.999	8.999	0.0	99	431100	80.8	
\$ 13 2,4,6-Tribromophenol	330	10.810	10.805	0.005	92	75608	86.9	
\$ 14 p-Terphenyl-d14	244	13.107	13.107	0.0	77	634796	80.8	
80 1,4-Dioxane	88		2.422					
81 N-Nitrosodimethylamine	42	2.657	2.647	0.010	74	74352	83.8	
82 Pyridine	52	2.721	2.711	0.010	92	98402	85.0	
89 Phenol	94	5.505	5.505	0.0	82	223105	82.8	
90 Aniline	93	5.505	5.505	0.0	70	261645	82.6	
91 Bis(2-chloroethyl)ether	93	5.596	5.590	0.006	87	161987	81.7	
93 2-Chlorophenol	128	5.670	5.671	-0.001	94	173024	81.9	
94 1,3-Dichlorobenzene	146	5.863	5.863	0.0	87	191022	81.0	
95 1,4-Dichlorobenzene	146	5.959	5.959	0.0	76	197186	81.3	
96 Benzyl alcohol	108	6.124	6.119	0.005	88	108341	82.7	
97 1,2-Dichlorobenzene	146	6.156	6.157	-0.001	84	187929	82.3	
98 2-Methylphenol	108	6.295	6.290	0.005	95	151642	82.6	
99 2,2'-oxybis[1-chloropropane]	45	6.306	6.306	0.0	85	178352	82.0	
104 Acetophenone	105	6.466	6.461	0.005	92	245958	82.5	
101 N-Nitrosodi-n-propylamine	70	6.477	6.472	0.005	82	131652	84.0	
102 4-Methylphenol	108	6.504	6.499	0.005	92	161264	84.0	
106 Hexachloroethane	117	6.600	6.595	0.005	90	75144	81.6	

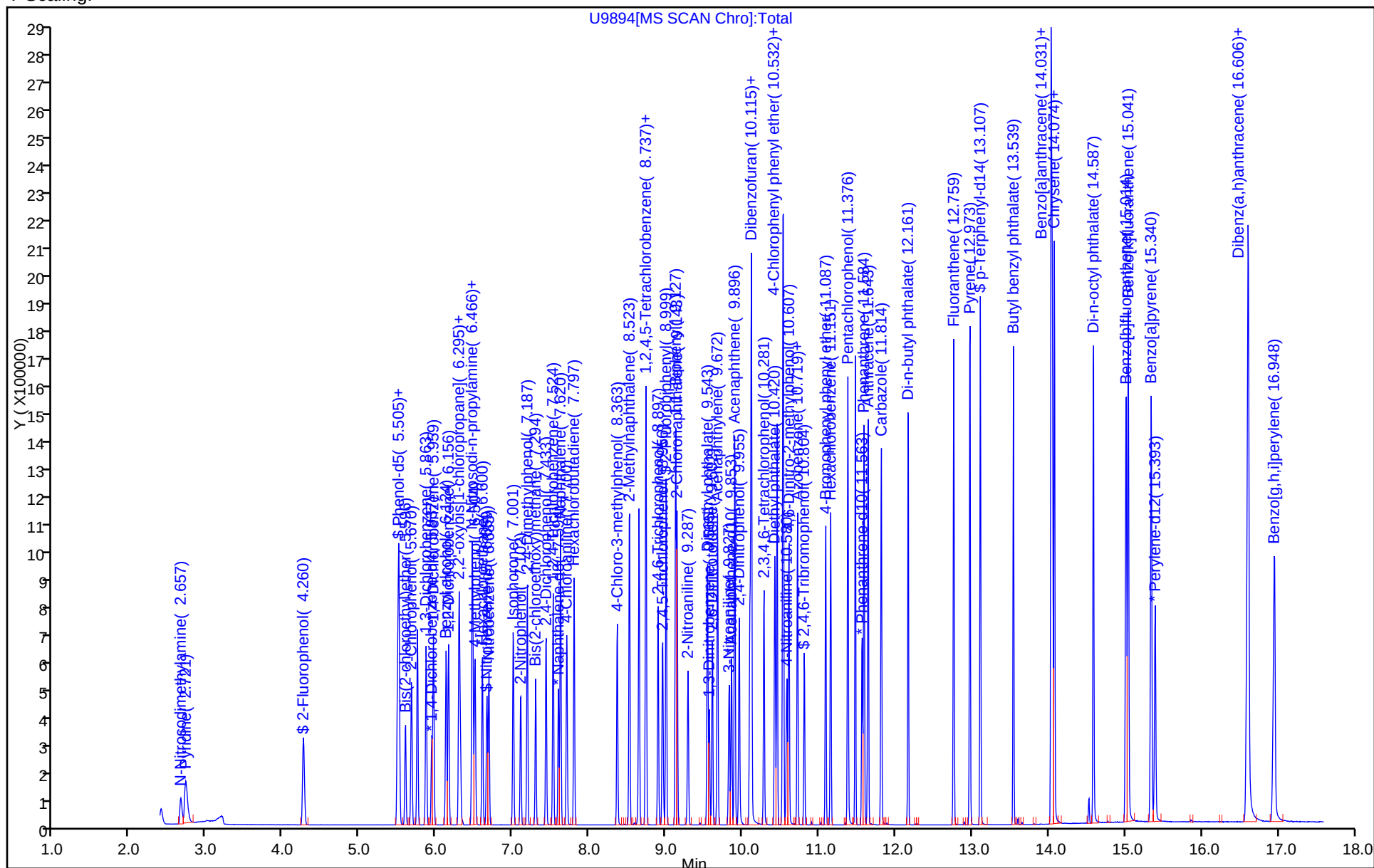
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
107 Nitrobenzene	77	6.685	6.680	0.005	81	191844	81.7	
110 Isophorone	82	7.001	6.996	0.005	95	331682	82.3	
111 2-Nitrophenol	139	7.102	7.097	0.005	98	96603	85.0	
112 2,4-Dimethylphenol	107	7.187	7.182	0.005	98	192898	83.3	
115 Bis(2-chloroethoxy)methane	93	7.294	7.295	-0.001	96	189101	80.2	
117 2,4-Dichlorophenol	162	7.433	7.428	0.005	90	154176	84.2	
120 1,2,4-Trichlorobenzene	180	7.524	7.524	0.0	84	181490	80.8	
121 Naphthalene	128	7.620	7.621	-0.001	96	515716	80.3	
123 4-Chloroaniline	127	7.700	7.701	-0.001	92	222057	82.8	
126 Hexachlorobutadiene	225	7.797	7.797	-0.001	88	120830	80.9	
131 4-Chloro-3-methylphenol	107	8.363	8.363	0.0	89	164081	84.7	
133 2-Methylnaphthalene	142	8.523	8.518	0.005	84	359031	80.9	
136 Hexachlorocyclopentadiene	237	8.731	8.732	-0.001	92	132004	80.5	
138 1,2,4,5-Tetrachlorobenzene	216	8.737	8.737	0.0	90	198412	80.4	
139 2,4,6-Trichlorophenol	196	8.897	8.892	0.005	92	124054	84.2	
140 2,4,5-Trichlorophenol	196	8.956	8.956	0.0	90	131718	85.6	
144 1,1'-Biphenyl	154	9.127	9.122	0.005	95	471212	80.2	
143 2-Chloronaphthalene	162	9.143	9.143	0.0	92	369416	80.5	
145 2-Nitroaniline	65	9.287	9.282	0.005	80	105971	82.1	
147 Dimethyl phthalate	163	9.543	9.538	0.005	98	440658	81.3	
50 1,3-Dinitrobenzene	168	9.565	9.560	0.005	85	74736	81.1	
148 2,6-Dinitrotoluene	165	9.608	9.603	0.005	90	102024	84.4	
149 Acenaphthylene	152	9.672	9.672	0.0	83	550051	81.6	
150 3-Nitroaniline	138	9.827	9.822	0.005	89	102395	82.3	
151 Acenaphthene	153	9.896	9.896	0.0	93	380685	80.6	
152 2,4-Dinitrophenol	184	9.955	9.950	0.005	83	129881	159.3	
153 4-Nitrophenol	109	10.094	10.089	0.005	92	141672	163.3	
155 Dibenzofuran	168	10.115	10.110	0.005	81	545895	81.5	
154 2,4-Dinitrotoluene	165	10.115	10.110	0.005	62	146067	87.6	
158 2,3,4,6-Tetrachlorophenol	232	10.281	10.276	0.005	91	122667	85.8	
160 Diethyl phthalate	149	10.420	10.415	0.005	96	424418	80.3	
161 Fluorene	166	10.526	10.521	0.005	73	453408	81.6	
162 4-Chlorophenyl phenyl ether	204	10.532	10.532	0.0	89	251443	81.7	
164 4-Nitroaniline	138	10.580	10.569	0.011	66	102819	81.6	
166 4,6-Dinitro-2-methylphenol	198	10.607	10.596	0.011	81	193417	160.8	
170 Azobenzene	77	10.719	10.714	0.005	96	401202	83.0	
168 1,2-Diphenylhydrazine	77	10.719	10.714	0.005	97	401202	81.5	
176 4-Bromophenyl phenyl ether	248	11.087	11.082	0.005	85	148698	84.3	
177 Hexachlorobenzene	284	11.151	11.152	-0.001	83	160245	83.8	
181 Pentachlorophenol	266	11.376	11.376	0.0	80	197222	162.9	
185 Phenanthrene	178	11.590	11.584	0.006	82	650811	81.1	
188 Anthracene	178	11.643	11.638	0.005	82	676845	82.2	
189 Carbazole	167	11.814	11.809	0.005	80	591109	82.9	
192 Di-n-butyl phthalate	149	12.161	12.161	0.0	100	707261	84.1	
197 Fluoranthene	202	12.759	12.754	0.005	81	755671	82.3	
199 Pyrene	202	12.973	12.968	0.005	96	785224	80.6	
205 Butyl benzyl phthalate	149	13.539	13.540	-0.001	92	340883	82.5	
210 Bis(2-ethylhexyl) phthalate	149	14.031	14.031	0.0	93	485845	83.7	
209 Benzo[a]anthracene	228	14.042	14.042	0.0	81	852440	80.9	
211 Chrysene	228	14.074	14.074	0.0	80	845462	79.5	
212 Di-n-octyl phthalate	149	14.587	14.581	0.005	99	811385	82.7	
213 Benzo[b]fluoranthene	252	15.014	15.009	0.005	76	851133	78.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
214 Benzo[k]fluoranthene	252	15.041	15.036	0.005	79	969522	83.2	
217 Benzo[a]pyrene	252	15.340	15.335	0.005	81	857436	84.1	
219 Indeno[1,2,3-cd]pyrene	276	16.606	16.596	0.010	71	1076825	83.6	
220 Dibenz(a,h)anthracene	278	16.611	16.601	0.010	44	938920	85.0	
221 Benzo[g,h,i]perylene	276	16.953	16.943	0.010	74	825386	80.3	
S 78 3-Methylphenol	1				0		84.0	
S 222 Total Cresols	1				0		166.6	
S 77 3 & 4 Methylphenol	108				0		84.0	

Chrom Revision: 2.1 01-Aug-2013 12:45:24

TestAmerica Buffalo

Data File:	\\Burchrom\ChromData\HP5973U\20130812-24271.b\U9894.D		
Injection Date:	12-Aug-2013 12:38:30	Limit Group:	MB - 8270C ICAL
Client ID:		Instrument ID:	HP5973U
Lims Batch ID:	133479	Lims Sample ID:	6
Operator ID:	anm	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Y Scaling:			



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9895.D
 Lims ID: IC - 120 PT Client ID:
 Inject. Date: 12-Aug-2013 13:01:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 5
 Sample ID: 480-0024271-007
 Misc. Info.:
 Operator: anm Instrument ID: HP5973U
 Injection Vol: 1.0 ul ALS Bottle#: 7
 Lims Batch ID: 133479 Lims Sample ID: 7
 Sublist: chrom-U-8270*sub25
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U-8270.m
 Last Update: 03-Sep-2013 12:51:55 Calib Date: 12-Aug-2013 13:25:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9896.D
 Limit Group: MB - 8270C ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: RXI-5Sil MS Column Dia: 0.25 mm
 Process Host: XAWRK003

First Level Reviewer: mcgoverna

Date: 12-Aug-2013 14:36:17

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.938	5.932	0.006	87	69168	40.0	
* 2 Naphthalene-d8	136	7.594	7.594	0.0	98	283776	40.0	
* 3 Acenaphthene-d10	164	9.859	9.854	0.005	73	182507	40.0	
* 4 Phenanthrene-d10	188	11.563	11.558	0.005	84	329104	40.0	
* 5 Chrysene-d12	240	14.052	14.053	-0.001	75	466105	40.0	
* 6 Perylene-d12	264	15.393	15.394	-0.001	80	464706	40.0	
\$ 9 2-Fluorophenol	112	4.260	4.255	0.005	96	236507	114.4	
\$ 10 Phenol-d5	99	5.489	5.484	0.005	92	304961	117.2	
\$ 11 Nitrobenzene-d5	82	6.659	6.654	0.005	93	300662	118.9	
\$ 12 2-Fluorobiphenyl	172	9.004	8.999	0.005	99	669308	113.3	
\$ 13 2,4,6-Tribromophenol	330	10.810	10.805	0.005	91	120004	124.5	
\$ 14 p-Terphenyl-d14	244	13.107	13.107	0.0	78	997766	113.0	
80 1,4-Dioxane	88		2.422					
81 N-Nitrosodimethylamine	42	2.657	2.647	0.010	79	116047	118.1	
82 Pyridine	52	2.721	2.711	0.010	92	151754	118.4	
89 Phenol	94	5.510	5.505	0.005	83	351380	117.8	
90 Aniline	93	5.510	5.505	0.005	68	408302	116.4	
91 Bis(2-chloroethyl)ether	93	5.596	5.590	0.006	87	252343	114.9	
93 2-Chlorophenol	128	5.676	5.671	0.005	95	277463	118.7	
94 1,3-Dichlorobenzene	146	5.863	5.863	0.0	88	303029	116.0	
95 1,4-Dichlorobenzene	146	5.959	5.959	0.0	85	311439	116.0	
96 Benzyl alcohol	108	6.130	6.119	0.011	87	174270	120.1	
97 1,2-Dichlorobenzene	146	6.157	6.157	0.0	82	294313	116.3	
98 2-Methylphenol	108	6.295	6.290	0.005	95	242634	119.3	
99 2,2'-oxybis[1-chloropropane]	45	6.311	6.306	0.005	82	276637	114.8	
104 Acetophenone	105	6.466	6.461	0.005	92	384604	116.5	
101 N-Nitrosodi-n-propylamine	70	6.477	6.472	0.005	84	205258	118.3	
102 4-Methylphenol	108	6.504	6.499	0.005	91	253784	119.4	
106 Hexachloroethane	117	6.600	6.595	0.005	92	120291	118.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
107 Nitrobenzene	77	6.685	6.680	0.005	85	300062	115.7	
110 Isophorone	82	7.006	6.996	0.010	95	515554	115.8	
111 2-Nitrophenol	139	7.102	7.097	0.005	97	155395	123.9	
112 2,4-Dimethylphenol	107	7.188	7.182	0.006	98	299114	117.1	
115 Bis(2-chloroethoxy)methane	93	7.300	7.295	0.005	99	301313	115.8	
117 2,4-Dichlorophenol	162	7.433	7.428	0.005	91	242425	120.0	
120 1,2,4-Trichlorobenzene	180	7.524	7.524	0.0	85	284896	114.9	
121 Naphthalene	128	7.620	7.621	-0.001	81	804896	113.5	
123 4-Chloroaniline	127	7.706	7.701	0.005	92	353937	119.5	
126 Hexachlorobutadiene	225	7.797	7.797	0.0	90	190707	115.6	
131 4-Chloro-3-methylphenol	107	8.363	8.363	0.0	89	257403	120.4	
133 2-Methylnaphthalene	142	8.523	8.518	0.005	80	568506	116.1	
136 Hexachlorocyclopentadiene	237	8.737	8.732	0.005	84	216577	118.1	
138 1,2,4,5-Tetrachlorobenzene	216	8.742	8.737	0.005	90	316529	115.8	
139 2,4,6-Trichlorophenol	196	8.897	8.892	0.005	92	196050	120.2	
140 2,4,5-Trichlorophenol	196	8.956	8.956	0.0	90	208099	122.2	
144 1,1'-Biphenyl	154	9.127	9.122	0.005	94	747935	115.0	
143 2-Chloronaphthalene	162	9.148	9.143	0.005	96	588416	115.8	
145 2-Nitroaniline	65	9.292	9.282	0.010	80	168689	117.1	
147 Dimethyl phthalate	163	9.549	9.538	0.011	96	682006	113.7	
50 1,3-Dinitrobenzene	168	9.570	9.560	0.010	88	122454	118.9	
148 2,6-Dinitrotoluene	165	9.613	9.603	0.010	90	164360	122.8	
149 Acenaphthylene	152	9.677	9.672	0.005	83	862807	115.6	
150 3-Nitroaniline	138	9.832	9.822	0.010	89	161119	116.1	
151 Acenaphthene	153	9.901	9.896	0.005	93	597723	114.3	
152 2,4-Dinitrophenol	184	9.966	9.950	0.016	83	218153	237.0	
153 4-Nitrophenol	109	10.104	10.089	0.015	82	227945	234.8	
155 Dibenzofuran	168	10.115	10.110	0.005	81	850944	114.8	
154 2,4-Dinitrotoluene	165	10.121	10.110	0.010	88	231138	125.2	
158 2,3,4,6-Tetrachlorophenol	232	10.281	10.276	0.005	92	193591	122.3	
160 Diethyl phthalate	149	10.425	10.415	0.010	96	655184	111.9	
161 Fluorene	166	10.532	10.521	0.011	71	726183	118.1	
162 4-Chlorophenyl phenyl ether	204	10.537	10.532	0.005	90	406333	119.3	
164 4-Nitroaniline	138	10.591	10.569	0.022	66	164771	116.9	
166 4,6-Dinitro-2-methylphenol	198	10.617	10.596	0.021	83	320460	237.9	
170 Azobenzene	77	10.719	10.714	0.005	97	623924	116.6	
168 1,2-Diphenylhydrazine	77	10.719	10.714	0.005	97	623924	114.4	
176 4-Bromophenyl phenyl ether	248	11.087	11.082	0.005	86	232782	119.3	
177 Hexachlorobenzene	284	11.152	11.152	0.0	83	247882	117.1	
181 Pentachlorophenol	266	11.381	11.376	0.005	80	318613	235.8	
185 Phenanthrene	178	11.590	11.584	0.006	82	1005652	113.3	
188 Anthracene	178	11.643	11.638	0.005	82	1055135	115.7	
189 Carbazole	167	11.814	11.809	0.005	83	922083	116.8	
192 Di-n-butyl phthalate	149	12.167	12.161	0.006	99	1105487	118.8	
197 Fluoranthene	202	12.760	12.754	0.006	81	1185871	116.7	
199 Pyrene	202	12.973	12.968	0.005	96	1223956	111.9	
205 Butyl benzyl phthalate	149	13.540	13.540	0.0	93	536328	115.6	
210 Bis(2-ethylhexyl) phthalate	149	14.031	14.031	0.0	93	777079	119.2	
209 Benzo[a]anthracene	228	14.042	14.042	0.0	81	1346563	113.7	
211 Chrysene	228	14.079	14.074	0.005	80	1344145	112.6	
212 Di-n-octyl phthalate	149	14.587	14.581	0.006	99	1294632	117.5	
213 Benzo[b]fluoranthene	252	15.014	15.009	0.005	76	1423193	115.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
214 Benzo[k]fluoranthene	252	15.046	15.036	0.010	78	1508410	113.9	
217 Benzo[a]pyrene	252	15.345	15.335	0.010	80	1371651	118.4	
219 Indeno[1,2,3-cd]pyrene	276	16.617	16.596	0.021	70	1746043	119.4	
220 Dibenz(a,h)anthracene	278	16.622	16.601	0.021	54	1539180	122.6	
221 Benzo[g,h,i]perylene	276	16.959	16.943	0.016	75	1276528	109.3	
S 78 3-Methylphenol	1				0		119.4	
S 222 Total Cresols	1				0		238.7	
S 77 3 & 4 Methylphenol	108				0		119.4	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9895.D

Injection Date: 12-Aug-2013 13:01:30

Limit Group: MB - 8270C ICAL

Client ID:

Instrument ID: HP5973U

Lims Batch ID: 133479

Lims Sample ID: 7

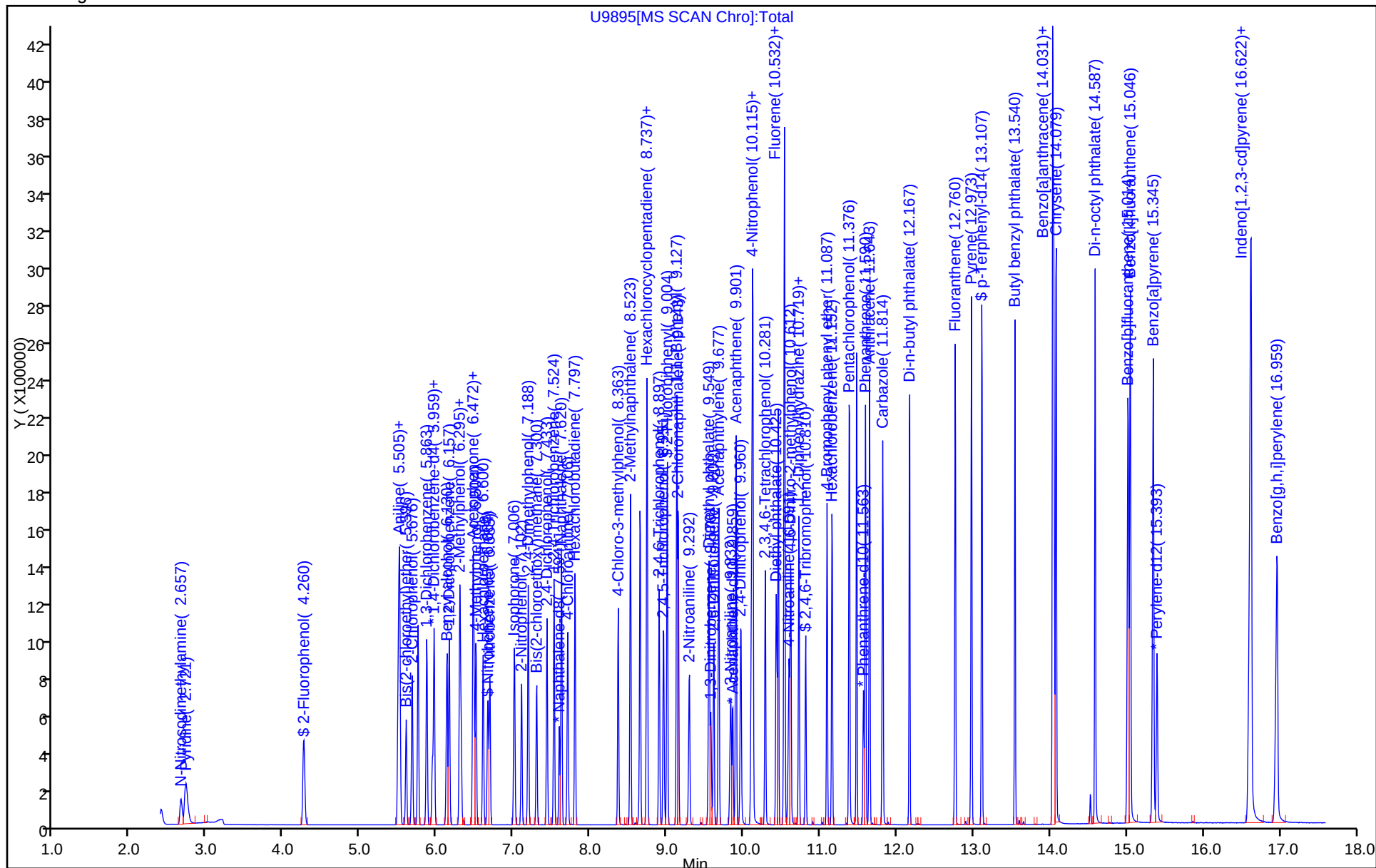
Operator ID: anm

Injection Vol: 1.0 ul

Column Type: RXI-5Sil MS

Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9896.D
 Lims ID: IC - 160 PT Client ID:
 Inject. Date: 12-Aug-2013 13:25:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 6
 Sample ID: 480-0024271-008
 Misc. Info.:
 Operator: anm Instrument ID: HP5973U
 Injection Vol: 1.0 ul ALS Bottle#: 8
 Lims Batch ID: 133479 Lims Sample ID: 8
 Sublist: chrom-U-8270*sub25
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U-8270.m
 Last Update: 03-Sep-2013 12:51:58 Calib Date: 12-Aug-2013 13:25:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9896.D
 Limit Group: MB - 8270C ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: RXI-5Sil MS Column Dia: 0.25 mm
 Process Host: XAWRK003

First Level Reviewer: mcgoverna

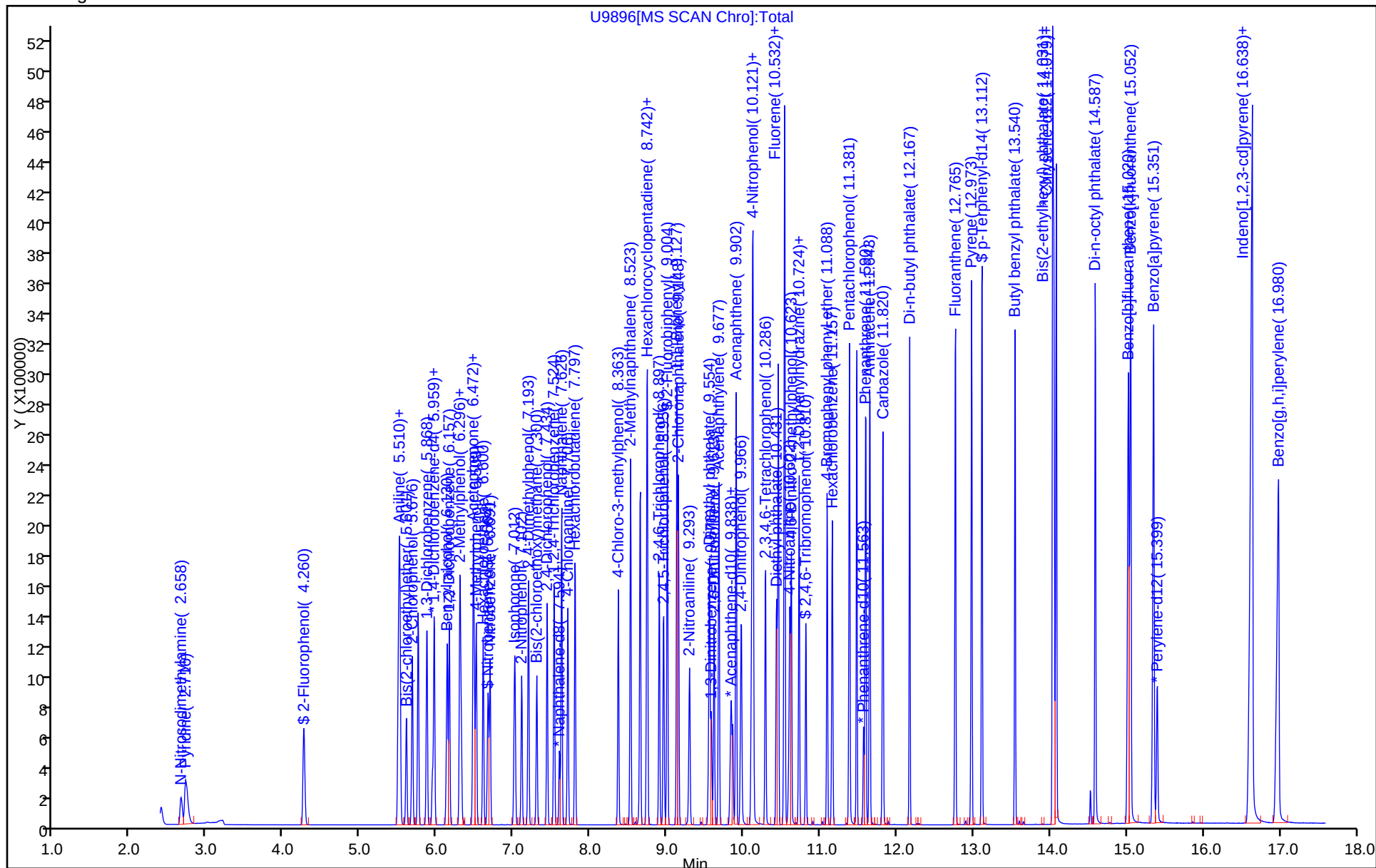
Date: 12-Aug-2013 14:36:14

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.938	5.932	0.006	90	68301	40.0	
* 2 Naphthalene-d8	136	7.594	7.594	0.0	99	272407	40.0	
* 3 Acenaphthene-d10	164	9.859	9.854	0.005	75	173480	40.0	
* 4 Phenanthrene-d10	188	11.563	11.558	0.005	80	318326	40.0	
* 5 Chrysene-d12	240	14.058	14.053	0.005	68	460528	40.0	
* 6 Perylene-d12	264	15.399	15.394	0.005	80	474422	40.0	
\$ 9 2-Fluorophenol	112	4.260	4.255	0.005	96	307186	150.4	
\$ 10 Phenol-d5	99	5.494	5.484	0.010	89	395731	154.0	
\$ 11 Nitrobenzene-d5	82	6.664	6.654	0.010	92	393340	162.1	
\$ 12 2-Fluorobiphenyl	172	9.004	8.999	0.005	99	885027	157.6	
\$ 13 2,4,6-Tribromophenol	330	10.815	10.805	0.010	90	156478	167.9	
\$ 14 p-Terphenyl-d14	244	13.112	13.107	0.005	96	1293336	148.3	
80 1,4-Dioxane	88		2.422					
81 N-Nitrosodimethylamine	42	2.658	2.647	0.011	77	148107	152.7	
82 Pyridine	52	2.722	2.711	0.011	81	196984	155.6	
89 Phenol	94	5.510	5.505	0.005	90	460063	156.2	
90 Aniline	93	5.510	5.505	0.005	69	536901	155.0	
91 Bis(2-chloroethyl)ether	93	5.601	5.590	0.011	86	328126	151.3	
93 2-Chlorophenol	128	5.676	5.671	0.005	95	364476	157.8	
94 1,3-Dichlorobenzene	146	5.868	5.863	0.005	88	396061	153.5	
95 1,4-Dichlorobenzene	146	5.959	5.959	0.0	85	407152	153.5	
96 Benzyl alcohol	108	6.130	6.119	0.011	87	225441	157.4	
97 1,2-Dichlorobenzene	146	6.157	6.157	0.0	82	386387	154.7	
98 2-Methylphenol	108	6.296	6.290	0.006	96	314902	156.8	
99 2,2'-oxybis[1-chloropropane]	45	6.312	6.306	0.006	84	358240	150.6	
104 Acetophenone	105	6.472	6.461	0.011	90	503804	154.6	
101 N-Nitrosodi-n-propylamine	70	6.483	6.472	0.011	84	267825	156.3	
102 4-Methylphenol	108	6.509	6.499	0.010	92	338923	161.5	
106 Hexachloroethane	117	6.600	6.595	0.005	92	157757	156.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
107 Nitrobenzene	77	6.691	6.680	0.011	84	395645	158.9	
110 Isophorone	82	7.012	6.996	0.016	95	669848	156.8	
111 2-Nitrophenol	139	7.102	7.097	0.005	98	205030	170.3	
112 2,4-Dimethylphenol	107	7.193	7.182	0.011	98	392225	159.9	
115 Bis(2-chloroethoxy)methane	93	7.300	7.295	0.005	96	388880	155.7	
117 2,4-Dichlorophenol	162	7.434	7.428	0.006	91	321175	165.6	
120 1,2,4-Trichlorobenzene	180	7.524	7.524	0.0	84	373132	156.8	
121 Naphthalene	128	7.626	7.621	0.005	98	1053704	154.7	
123 4-Chloroaniline	127	7.706	7.701	0.005	82	461231	162.2	
126 Hexachlorobutadiene	225	7.802	7.797	0.005	88	250020	157.9	
131 4-Chloro-3-methylphenol	107	8.363	8.363	0.0	89	338044	164.7	
133 2-Methylnaphthalene	142	8.523	8.518	0.005	84	736509	156.7	
136 Hexachlorocyclopentadiene	237	8.737	8.732	0.005	92	285764	163.1	
138 1,2,4,5-Tetrachlorobenzene	216	8.742	8.737	0.005	90	416298	160.3	
139 2,4,6-Trichlorophenol	196	8.897	8.892	0.005	88	259282	167.2	
140 2,4,5-Trichlorophenol	196	8.956	8.956	0.0	87	272229	168.2	
144 1,1'-Biphenyl	154	9.127	9.122	0.005	94	976325	157.9	
143 2-Chloronaphthalene	162	9.148	9.143	0.005	97	779850	161.4	
145 2-Nitroaniline	65	9.293	9.282	0.011	79	220588	160.4	
147 Dimethyl phthalate	163	9.554	9.538	0.016	97	884272	155.0	
50 1,3-Dinitrobenzene	168	9.576	9.560	0.016	87	161978	162.7	
148 2,6-Dinitrotoluene	165	9.613	9.603	0.010	90	214720	168.8	
149 Acenaphthylene	152	9.677	9.672	0.005	83	1131978	159.5	
150 3-Nitroaniline	138	9.838	9.822	0.016	89	210995	159.3	
151 Acenaphthene	153	9.902	9.896	0.006	93	783672	157.6	
152 2,4-Dinitrophenol	184	9.971	9.950	0.021	84	295514	334.0	
153 4-Nitrophenol	109	10.110	10.089	0.021	87	297142	320.0	
155 Dibenzofuran	168	10.121	10.110	0.011	81	1119799	158.9	
154 2,4-Dinitrotoluene	165	10.126	10.110	0.016	85	307207	175.0	
158 2,3,4,6-Tetrachlorophenol	232	10.286	10.276	0.010	91	257118	170.8	
160 Diethyl phthalate	149	10.431	10.415	0.016	97	845733	151.9	
161 Fluorene	166	10.532	10.521	0.011	72	949548	162.4	
162 4-Chlorophenyl phenyl ether	204	10.537	10.532	0.005	88	530819	163.9	
164 4-Nitroaniline	138	10.602	10.569	0.033	66	219037	162.4	
166 4,6-Dinitro-2-methylphenol	198	10.623	10.596	0.027	89	431712	329.1	
170 Azobenzene	77	10.724	10.714	0.010	96	812761	157.0	
168 1,2-Diphenylhydrazine	77	10.724	10.714	0.010	97	812761	156.8	
176 4-Bromophenyl phenyl ether	248	11.093	11.082	0.011	89	302094	160.0	
177 Hexachlorobenzene	284	11.157	11.152	0.005	83	322254	157.4	
181 Pentachlorophenol	266	11.381	11.376	0.005	82	424751	323.4	
185 Phenanthrene	178	11.595	11.584	0.011	81	1309205	152.5	
188 Anthracene	178	11.649	11.638	0.011	82	1377603	156.2	
189 Carbazole	167	11.820	11.809	0.011	80	1194690	156.4	
192 Di-n-butyl phthalate	149	12.167	12.161	0.006	100	1417690	157.5	
197 Fluoranthene	202	12.765	12.754	0.011	81	1537237	156.4	
199 Pyrene	202	12.973	12.968	0.005	95	1585945	146.8	
205 Butyl benzyl phthalate	149	13.540	13.540	0.0	94	701418	153.0	
210 Bis(2-ethylhexyl) phthalate	149	14.031	14.031	0.0	94	983556	152.7	
209 Benzo[a]anthracene	228	14.047	14.042	0.005	81	1812743	155.0	
211 Chrysene	228	14.079	14.074	0.005	80	1664141	141.1	
212 Di-n-octyl phthalate	149	14.587	14.581	0.006	99	1712757	157.3	
213 Benzo[b]fluoranthene	252	15.020	15.009	0.011	77	2016115	160.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
214 Benzo[k]fluoranthene	252	15.052	15.036	0.016	78	1989419	147.1	
217 Benzo[a]pyrene	252	15.351	15.335	0.016	80	1867526	157.9	
219 Indeno[1,2,3-cd]pyrene	276	16.638	16.596	0.042	62	2674328	179.1	
220 Dibenz(a,h)anthracene	278	16.638	16.601	0.037	51	2321649	181.2	
221 Benzo[g,h,i]perylene	276	16.980	16.943	0.037	74	2172252	182.1	
S 78 3-Methylphenol	1				0		161.5	
S 222 Total Cresols	1				0		318.3	
S 77 3 & 4 Methylphenol	108				0		161.5	

Data File:	\\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9896.D		
Injection Date:	12-Aug-2013 13:25:30	Limit Group:	MB - 8270C ICAL
Client ID:		Instrument ID:	HP5973U
Lims Batch ID:	133479	Lims Sample ID:	8
Operator ID:	anm	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Y Scaling:			



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Lab Sample ID: CCVIS 480-138717/3 Calibration Date: 09/13/2013 00:55
Instrument ID: HP5973U Calib Start Date: 07/15/2013 12:51
GC Column: RXI-5Sil MS ID: 0.25 (mm) Calib End Date: 07/15/2013 14:57
Lab File ID: U0565.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Lin1			0.0100		50000		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0565.D
 Lims ID: CCVIS Client ID:
 Inject. Date: 13-Sep-2013 00:55:30 Dil. Factor: 1.0000
 Sample Type: CCVIS
 Sample ID: 480-0025167-003
 Misc. Info.:
 Operator: anm Instrument ID: HP5973U
 Injection Vol: 1.0 ul ALS Bottle#: 3
 Lims Batch ID: 138717 Lims Sample ID: 3
 Sublist: chrom-U-8270*sub27
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U-8270.m
 Last Update: 13-Sep-2013 01:33:57 Calib Date: 31-Aug-2013 05:59:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973U\20130830-24838.b\U0334.D
 Limit Group: MB - 8270C ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: RXI-5Sil MS Column Dia: 0.25 mm
 Process Host: XAWRK040

First Level Reviewer: rimmera

Date: 13-Sep-2013 01:33:57

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.858	5.858	0.0	93	42231	40.0	
* 2 Naphthalene-d8	136	7.524	7.524	0.0	99	171187	40.0	
* 3 Acenaphthene-d10	164	9.790	9.790	0.0	98	108642	40.0	
* 4 Phenanthrene-d10	188	11.499	11.499	0.0	99	187454	40.0	
* 5 Chrysene-d12	240	13.994	13.994	0.0	78	245178	40.0	
* 6 Perylene-d12	264	15.308	15.308	0.0	87	242223	40.0	
\$ 9 2-Fluorophenol	112	4.159	4.159	0.0	96	65788	52.1	
\$ 10 Phenol-d5	99	5.420	5.420	0.0	81	82712	52.1	
\$ 11 Nitrobenzene-d5	82	6.584	6.584	0.0	90	79559	52.2	
\$ 12 2-Fluorobiphenyl	172	8.935	8.935	0.0	98	177401	50.5	
\$ 13 2,4,6-Tribromophenol	330	10.746	10.746	0.0	91	26375	48.1	
\$ 14 p-Terphenyl-d14	244	13.048	13.048	0.0	97	238120	51.3	
80 1,4-Dioxane	88		2.422					
81 N-Nitrosodimethylamine	42	2.487	2.487	0.0	76	32358	53.9	
82 Pyridine	52	2.551	2.551	0.0	79	53813	68.8	
89 Phenol	94	5.441	5.441	0.0	96	91783	50.4	
90 Aniline	93	5.420	5.420	0.0	90	107244	50.1	
91 Bis(2-chloroethyl)ether	93	5.510	5.510	0.0	100	66447	49.6	
93 2-Chlorophenol	128	5.591	5.591	0.0	95	75078	52.6	
94 1,3-Dichlorobenzene	146	5.783	5.783	0.0	96	83408	52.3	
95 1,4-Dichlorobenzene	146	5.879	5.879	0.0	80	84270	51.4	
96 Benzyl alcohol	108	6.050	6.050	0.0	87	48756	55.1	
97 1,2-Dichlorobenzene	146	6.077	6.077	0.0	89	80724	52.3	
98 2-Methylphenol	108	6.232	6.232	0.0	87	66006	53.2	
99 2,2'-oxybis[1-chloropropane]	45	6.232	6.232	0.0	81	116905	79.5	
104 Acetophenone	105	6.392	6.392	0.0	91	102891	51.1	
101 N-Nitrosodi-n-propylamine	70	6.403	6.403	0.0	91	54723	51.7	
102 4-Methylphenol	108	6.440	6.440	0.0	92	69479	53.5	
106 Hexachloroethane	117	6.520	6.520	0.0	86	30950	49.7	

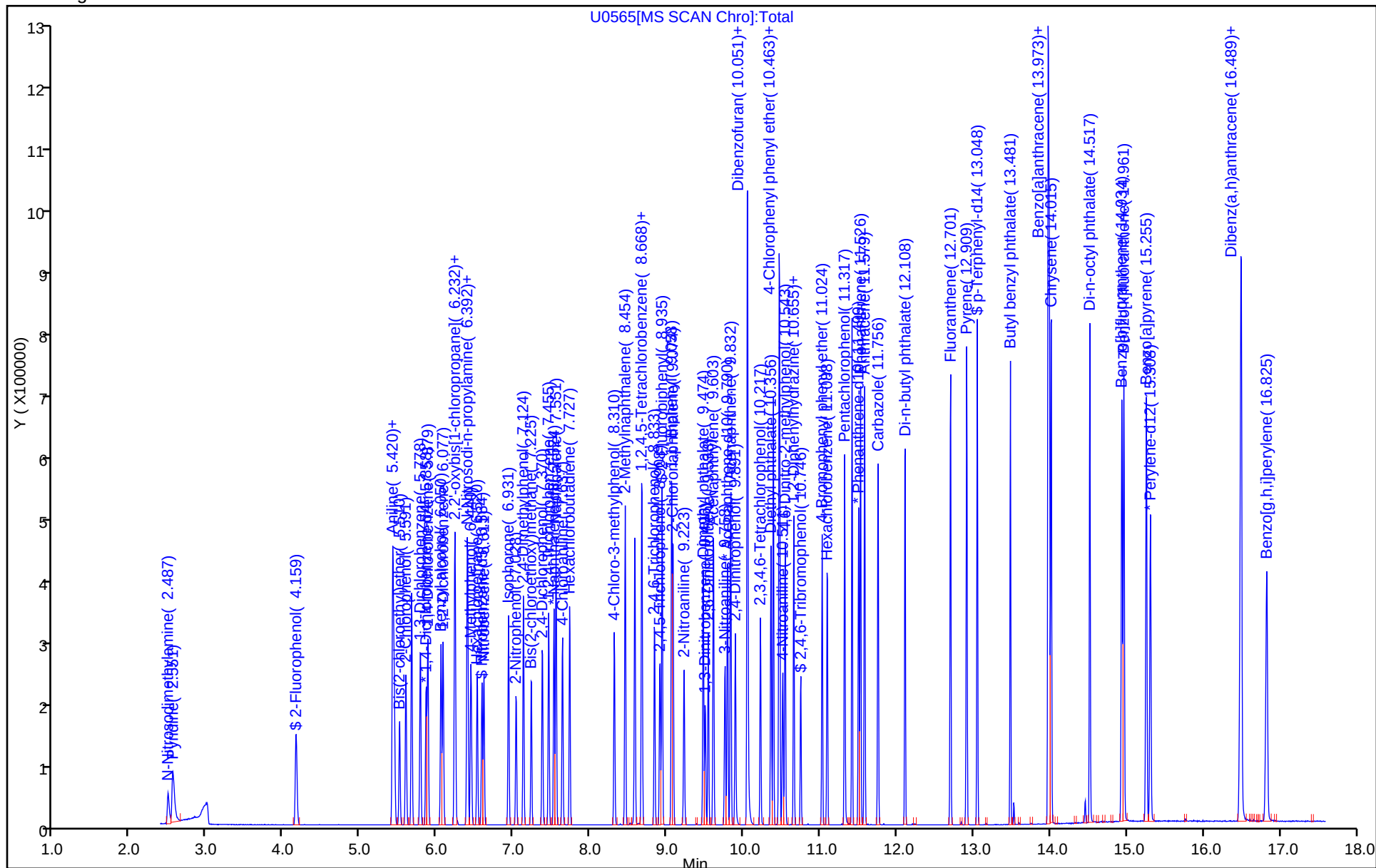
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
107 Nitrobenzene	77	6.611	6.611	0.0	84	79982	51.1	
110 Isophorone	82	6.931	6.931	0.0	95	139562	52.0	
111 2-Nitrophenol	139	7.033	7.033	0.0	98	40425	53.4	
112 2,4-Dimethylphenol	107	7.124	7.124	0.0	98	80803	52.4	
115 Bis(2-chloroethoxy)methane	93	7.231	7.231	0.0	97	80080	51.0	
117 2,4-Dichlorophenol	162	7.375	7.375	0.0	92	66012	54.2	
120 1,2,4-Trichlorobenzene	180	7.455	7.455	0.0	89	70119	46.9	
121 Naphthalene	128	7.551	7.551	0.0	96	220622	51.6	
123 4-Chloroaniline	127	7.637	7.637	0.0	82	92195	51.6	
126 Hexachlorobutadiene	225	7.727	7.727	0.0	88	47433	47.7	
131 4-Chloro-3-methylphenol	107	8.310	8.310	0.0	94	69128	53.6	
133 2-Methylnaphthalene	142	8.454	8.454	0.0	80	151485	51.3	
136 Hexachlorocyclopentadiene	237	8.668	8.668	0.0	91	43887	41.7	
138 1,2,4,5-Tetrachlorobenzene	216	8.673	8.673	0.0	93	74813	46.0	
139 2,4,6-Trichlorophenol	196	8.839	8.839	0.0	94	49604	51.1	
140 2,4,5-Trichlorophenol	196	8.908	8.908	0.0	90	52355	51.6	
144 1,1'-Biphenyl	154	9.058	9.058	0.0	96	184398	47.6	
143 2-Chloronaphthalene	162	9.079	9.079	0.0	95	148397	49.1	
145 2-Nitroaniline	65	9.223	9.223	0.0	65	49300	58.6	
147 Dimethyl phthalate	163	9.474	9.474	0.0	98	180220	50.5	
50 1,3-Dinitrobenzene	168	9.501	9.501	0.0	80	30891	51.5	
148 2,6-Dinitrotoluene	165	9.538	9.538	0.0	84	41064	51.5	
149 Acenaphthylene	152	9.603	9.603	0.0	90	230365	51.8	
150 3-Nitroaniline	138	9.758	9.758	0.0	89	43777	54.1	
151 Acenaphthene	153	9.832	9.832	0.0	93	147957	47.5	
152 2,4-Dinitrophenol	184	9.891	9.891	0.0	79	47349	92.1	
153 4-Nitrophenol	109	10.051	10.051	0.0	56	50572	90.9	
155 Dibenzofuran	168	10.051	10.051	0.0	77	218275	49.5	
154 2,4-Dinitrotoluene	165	10.051	10.051	0.0	66	57277	52.1	
158 2,3,4,6-Tetrachlorophenol	232	10.217	10.217	0.0	95	45743	48.5	
160 Diethyl phthalate	149	10.356	10.356	0.0	96	172461	49.5	
161 Fluorene	166	10.463	10.463	0.0	82	187440	51.2	
162 4-Chlorophenyl phenyl ether	204	10.468	10.468	0.0	91	92292	45.5	
164 4-Nitroaniline	138	10.511	10.511	0.0	75	42039	51.6	
166 4,6-Dinitro-2-methylphenol	198	10.543	10.543	0.0	83	73054	98.6	
168 1,2-Diphenylhydrazine	77	10.655	10.655	0.0	96	168424	51.9	
170 Azobenzene	77	10.655	10.655	0.0	96	168424	55.3	
176 4-Bromophenyl phenyl ether	248	11.024	11.024	0.0	97	55451	49.9	
177 Hexachlorobenzene	284	11.093	11.093	0.0	84	57983	48.1	
181 Pentachlorophenol	266	11.317	11.317	0.0	83	67492	90.4	
185 Phenanthrene	178	11.526	11.526	0.0	96	262698	52.0	
188 Anthracene	178	11.579	11.579	0.0	97	274941	52.9	
189 Carbazole	167	11.756	11.756	0.0	82	249555	55.5	
192 Di-n-butyl phthalate	149	12.108	12.108	0.0	100	283909	53.6	
197 Fluoranthene	202	12.701	12.701	0.0	96	298186	51.5	
199 Pyrene	202	12.909	12.909	0.0	98	305440	53.1	
205 Butyl benzyl phthalate	149	13.481	13.481	0.0	96	138648	56.8	
210 Bis(2-ethylhexyl) phthalate	149	13.973	13.973	0.0	95	191796	55.9	
209 Benzo[a]anthracene	228	13.978	13.978	0.0	98	333067	53.5	
211 Chrysene	228	14.015	14.015	0.0	90	303906	48.4	
212 Di-n-octyl phthalate	149	14.517	14.517	0.0	99	330879	57.1	
213 Benzo[b]fluoranthene	252	14.934	14.934	0.0	83	355121	55.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
214 Benzo[k]fluoranthene	252	14.961	14.961	0.0	85	340773	49.4	
217 Benzo[a]pyrene	252	15.255	15.255	0.0	99	320459	53.1	
219 Indeno[1,2,3-cd]pyrene	276	16.489	16.489	0.0	87	377608	49.5	
220 Dibenz(a,h)anthracene	278	16.494	16.494	0.0	51	323397	49.4	
221 Benzo[g,h,i]perylene	276	16.825	16.825	0.0	91	279702	45.9	
S 222 Total Cresols	1				0		106.7	
S 77 3 & 4 Methylphenol	108				0		53.5	
S 78 3-Methylphenol	1				0		53.5	

Chrom Revision: 2.1 01-Aug-2013 12:45:24

TestAmerica Buffalo

Data File:	\\Burchrom\ChromData\HP5973U\20130912-25167.b\U0565.D		
Injection Date:	13-Sep-2013 00:55:30	Limit Group:	MB - 8270C ICAL
Client ID:		Instrument ID:	HP5973U
Lims Batch ID:	138717	Lims Sample ID:	3
Operator ID:	anm	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm
Y Scaling:			



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Lab Sample ID: CCVIS 480-138717/3 Calibration Date: 09/13/2013 00:55

Instrument ID: HP5973U Calib Start Date: 08/12/2013 11:22

GC Column: RXI-5Sil MS ID: 0.25 (mm) Calib End Date: 08/12/2013 13:25

Lab File ID: U0565.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Nitrosodimethylamine	Ave	0.5682	0.6130	0.0100	53900	50000	7.9	25.0
Pyridine	Ave	0.7413	1.019	0.0100	68800	50000	37.5	100.0
Aniline	Ave	2.029	2.032	0.0100	50100	50000	0.1	100.0
Phenol	Ave	1.725	1.739	0.0100	50400	50000	0.8	20.0
Bis(2-chloroethyl)ether	Ave	1.270	1.259	0.0100	49600	50000	-0.9	20.0
2-Chlorophenol	Ave	1.352	1.422	0.0100	52600	50000	5.2	20.0
1,3-Dichlorobenzene	Ave	1.511	1.580	0.0100	52300	50000	4.6	20.0
1,4-Dichlorobenzene	Ave	1.553	1.596	0.0100	51400	50000	2.8	20.0
Benzyl alcohol	Ave	0.8389	0.9236	0.0100	55100	50000	10.1	100.0
1,2-Dichlorobenzene	Ave	1.463	1.529	0.0100	52300	50000	4.5	20.0
2-Methylphenol	Ave	1.176	1.250	0.0100	53200	50000	6.3	20.0
bis (2-chloroisopropyl) ether	Ave	1.393	2.215	0.0100	79500	50000	59.0*	20.0
Acetophenone	Ave	1.908	1.949	0.0100	51100	50000	2.1	40.0
N-Nitrosodi-n-propylamine	Ave	1.004	1.037	0.0500	51700	50000	3.3	20.0
4-Methylphenol	Ave	1.229	1.316	0.0100	53500	50000	7.1	20.0
Hexachloroethane	Ave	0.5897	0.5863	0.0100	49700	50000	-0.6	20.0
Nitrobenzene	Ave	0.3655	0.3738	0.0100	51100	50000	2.3	20.0
Isophorone	Ave	0.6274	0.6522	0.0100	52000	50000	3.9	20.0
2-Nitrophenol	Ave	0.1768	0.1889	0.0100	53400	50000	6.9	20.0
2,4-Dimethylphenol	Ave	0.3602	0.3776	0.0100	52400	50000	4.8	20.0
Bis(2-chloroethoxy)methane	Ave	0.3667	0.3742	0.0100	51000	50000	2.1	20.0
2,4-Dichlorophenol	Ave	0.2848	0.3085	0.0100	54200	50000	8.3	20.0
1,2,4-Trichlorobenzene	Ave	0.3495	0.3277	0.0100	46900	50000	-6.2	20.0
Naphthalene	Ave	1.000	1.031	0.0100	51600	50000	3.1	20.0
4-Chloroaniline	Ave	0.4175	0.4309	0.0100	51600	50000	3.2	20.0
Hexachlorobutadiene	Ave	0.2325	0.2217	0.0100	47700	50000	-4.7	20.0
4-Chloro-3-methylphenol	Ave	0.3013	0.3231	0.0100	53600	50000	7.2	20.0
2-Methylnaphthalene	Ave	0.6903	0.7079	0.0100	51300	50000	2.5	20.0
Hexachlorocyclopentadiene	Lin1		0.3232	0.0500	41700	50000	-16.7	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5989	0.5509	0.0100	46000	50000	-8.0	40.0
2,4,6-Trichlorophenol	Ave	0.3575	0.3653	0.0100	51100	50000	2.2	20.0
2,4,5-Trichlorophenol	Ave	0.3733	0.3855	0.0100	51600	50000	3.3	20.0
Biphenyl	Ave	1.426	1.358	0.0100	47600	50000	-4.8	40.0
2-Chloronaphthalene	Ave	1.114	1.093	0.0100	49100	50000	-1.9	25.0
2-Nitroaniline	Lin1		0.3630	0.0100	58600	50000	17.1	20.0
Dimethyl phthalate	Ave	1.315	1.327	0.0100	50500	50000	0.9	20.0
1,3-Dinitrobenzene	Lin1		0.1444	0.0100	51500	50000	3.0	100.0
2,6-Dinitrotoluene	Ave	0.2933	0.3024	0.0100	51500	50000	3.1	25.0
Acenaphthylene	Ave	1.636	1.696	0.0100	51800	50000	3.7	20.0
3-Nitroaniline	Lin1		0.3224	0.0100	54100	50000	8.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Lab Sample ID: CCVIS 480-138717/3 Calibration Date: 09/13/2013 00:55

Instrument ID: HP5973U Calib Start Date: 08/12/2013 11:22

GC Column: RXI-5Sil MS ID: 0.25 (mm) Calib End Date: 08/12/2013 13:25

Lab File ID: U0565.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acenaphthene	Ave	1.147	1.090	0.0100	47500	50000	-5.0	20.0
2,4-Dinitrophenol	Lin1		0.1743	0.0500	92100	100000	-7.9	20.0
2,4-Dinitrotoluene	Ave	0.4047	0.4218	0.0100	52100	50000	4.2	20.0
4-Nitrophenol	Lin1		0.1862	0.0500	90900	100000	-9.1	20.0
Dibenzofuran	Ave	1.625	1.607	0.0100	49500	50000	-1.1	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3470	0.3368	0.0100	48500	50000	-2.9	40.0
Diethyl phthalate	Ave	1.284	1.270	0.0100	49500	50000	-1.1	20.0
Fluorene	Ave	1.348	1.380	0.0100	51200	50000	2.4	20.0
4-Chlorophenyl phenyl ether	Ave	0.7468	0.6796	0.0100	45500	50000	-9.0	20.0
4-Nitroaniline	Lin1		0.3096	0.0100	51600	50000	3.1	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1559	0.0100	98600	100000	-1.4	20.0
1,2-Diphenylhydrazine	Ave	1.195	1.240	0.0100	51900	50000	3.8	25.0
trans-Azobenzene	Ave	0.6504	0.7188	0.0100	55300	50000	10.5	40.0
4-Bromophenyl phenyl ether	Ave	0.2372	0.2367	0.0100	49900	50000	-0.2	20.0
Hexachlorobenzene	Ave	0.2572	0.2475	0.0100	48100	50000	-3.8	20.0
Pentachlorophenol	Lin1		0.1440	0.0100	90400	100000	-9.6	20.0
Phenanthrene	Ave	1.079	1.121	0.0100	52000	50000	3.9	20.0
Anthracene	Ave	1.108	1.173	0.0100	52900	50000	5.9	20.0
Carbazole	Ave	0.9596	1.065	0.0100	55500	50000	11.0	20.0
Di-n-butyl phthalate	Ave	1.131	1.212	0.0100	53600	50000	7.2	20.0
Fluoranthene	Ave	1.235	1.273	0.0100	51500	50000	3.0	20.0
Pyrene	Ave	0.9387	0.997	0.0100	53100	50000	6.2	20.0
Butyl benzyl phthalate	Ave	0.3982	0.4524	0.0100	56800	50000	13.6	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.5594	0.6258	0.0100	55900	50000	11.9	20.0
Benz(a)anthracene	Ave	1.016	1.087	0.0100	53500	50000	7.0	20.0
Chrysene	Ave	1.025	0.9916	0.0100	48400	50000	-3.2	20.0
Di-n-octyl phthalate	Ave	0.9455	1.080	0.0100	57100	50000	14.2	20.0
Benzo(b)fluoranthene	Ave	1.062	1.173	0.0100	55200	50000	10.4	20.0
Benzo(k)fluoranthene	Ave	1.140	1.125	0.0100	49400	50000	-1.3	20.0
Benzo(a)pyrene	Ave	0.997	1.058	0.0100	53100	50000	6.1	20.0
Indeno(1,2,3-cd)pyrene	Ave	1.259	1.247	0.0100	49500	50000	-1.0	20.0
Dibenz(a,h)anthracene	Ave	1.080	1.068	0.0100	49400	50000	-1.1	20.0
Benzo(ghi)perylene	Ave	1.006	0.9238	0.0100	45900	50000	-8.1	20.0
2-Fluorophenol	Ave	1.196	1.246	0.0100	52100	50000	4.2	25.0
Phenol-d5	Ave	1.505	1.567	0.0100	52100	50000	4.1	25.0
Nitrobenzene-d5	Ave	0.3564	0.3718	0.0100	52200	50000	4.3	25.0
2-Fluorobiphenyl	Ave	1.295	1.306	0.0100	50500	50000	0.9	25.0
2,4,6-Tribromophenol	Ave	0.1171	0.1126	0.0100	48100	50000	-3.9	25.0
p-Terphenyl-d14	Ave	0.7575	0.7770	0.0100	51300	50000	2.6	25.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0565.D
 Lims ID: CCVIS Client ID:
 Inject. Date: 13-Sep-2013 00:55:30 Dil. Factor: 1.0000
 Sample Type: CCVIS
 Sample ID: 480-0025167-003
 Misc. Info.:
 Operator: anm Instrument ID: HP5973U
 Injection Vol: 1.0 ul ALS Bottle#: 3
 Lims Batch ID: 138717 Lims Sample ID: 3
 Sublist: chrom-U-8270*sub27
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U-8270.m
 Last Update: 13-Sep-2013 01:33:57 Calib Date: 31-Aug-2013 05:59:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973U\20130830-24838.b\U0334.D
 Limit Group: MB - 8270C ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: RXI-5Sil MS Column Dia: 0.25 mm
 Process Host: XAWRK040

First Level Reviewer: rimmera

Date: 13-Sep-2013 01:33:57

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.858	5.858	0.0	93	42231	40.0	
* 2 Naphthalene-d8	136	7.524	7.524	0.0	99	171187	40.0	
* 3 Acenaphthene-d10	164	9.790	9.790	0.0	98	108642	40.0	
* 4 Phenanthrene-d10	188	11.499	11.499	0.0	99	187454	40.0	
* 5 Chrysene-d12	240	13.994	13.994	0.0	78	245178	40.0	
* 6 Perylene-d12	264	15.308	15.308	0.0	87	242223	40.0	
\$ 9 2-Fluorophenol	112	4.159	4.159	0.0	96	65788	52.1	
\$ 10 Phenol-d5	99	5.420	5.420	0.0	81	82712	52.1	
\$ 11 Nitrobenzene-d5	82	6.584	6.584	0.0	90	79559	52.2	
\$ 12 2-Fluorobiphenyl	172	8.935	8.935	0.0	98	177401	50.5	
\$ 13 2,4,6-Tribromophenol	330	10.746	10.746	0.0	91	26375	48.1	
\$ 14 p-Terphenyl-d14	244	13.048	13.048	0.0	97	238120	51.3	
80 1,4-Dioxane	88		2.422					
81 N-Nitrosodimethylamine	42	2.487	2.487	0.0	76	32358	53.9	
82 Pyridine	52	2.551	2.551	0.0	79	53813	68.8	
89 Phenol	94	5.441	5.441	0.0	96	91783	50.4	
90 Aniline	93	5.420	5.420	0.0	90	107244	50.1	
91 Bis(2-chloroethyl)ether	93	5.510	5.510	0.0	100	66447	49.6	
93 2-Chlorophenol	128	5.591	5.591	0.0	95	75078	52.6	
94 1,3-Dichlorobenzene	146	5.783	5.783	0.0	96	83408	52.3	
95 1,4-Dichlorobenzene	146	5.879	5.879	0.0	80	84270	51.4	
96 Benzyl alcohol	108	6.050	6.050	0.0	87	48756	55.1	
97 1,2-Dichlorobenzene	146	6.077	6.077	0.0	89	80724	52.3	
98 2-Methylphenol	108	6.232	6.232	0.0	87	66006	53.2	
99 2,2'-oxybis[1-chloropropane]	45	6.232	6.232	0.0	81	116905	79.5	
104 Acetophenone	105	6.392	6.392	0.0	91	102891	51.1	
101 N-Nitrosodi-n-propylamine	70	6.403	6.403	0.0	91	54723	51.7	
102 4-Methylphenol	108	6.440	6.440	0.0	92	69479	53.5	
106 Hexachloroethane	117	6.520	6.520	0.0	86	30950	49.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
107 Nitrobenzene	77	6.611	6.611	0.0	84	79982	51.1	
110 Isophorone	82	6.931	6.931	0.0	95	139562	52.0	
111 2-Nitrophenol	139	7.033	7.033	0.0	98	40425	53.4	
112 2,4-Dimethylphenol	107	7.124	7.124	0.0	98	80803	52.4	
115 Bis(2-chloroethoxy)methane	93	7.231	7.231	0.0	97	80080	51.0	
117 2,4-Dichlorophenol	162	7.375	7.375	0.0	92	66012	54.2	
120 1,2,4-Trichlorobenzene	180	7.455	7.455	0.0	89	70119	46.9	
121 Naphthalene	128	7.551	7.551	0.0	96	220622	51.6	
123 4-Chloroaniline	127	7.637	7.637	0.0	82	92195	51.6	
126 Hexachlorobutadiene	225	7.727	7.727	0.0	88	47433	47.7	
131 4-Chloro-3-methylphenol	107	8.310	8.310	0.0	94	69128	53.6	
133 2-Methylnaphthalene	142	8.454	8.454	0.0	80	151485	51.3	
136 Hexachlorocyclopentadiene	237	8.668	8.668	0.0	91	43887	41.7	
138 1,2,4,5-Tetrachlorobenzene	216	8.673	8.673	0.0	93	74813	46.0	
139 2,4,6-Trichlorophenol	196	8.839	8.839	0.0	94	49604	51.1	
140 2,4,5-Trichlorophenol	196	8.908	8.908	0.0	90	52355	51.6	
144 1,1'-Biphenyl	154	9.058	9.058	0.0	96	184398	47.6	
143 2-Chloronaphthalene	162	9.079	9.079	0.0	95	148397	49.1	
145 2-Nitroaniline	65	9.223	9.223	0.0	65	49300	58.6	
147 Dimethyl phthalate	163	9.474	9.474	0.0	98	180220	50.5	
50 1,3-Dinitrobenzene	168	9.501	9.501	0.0	80	30891	51.5	
148 2,6-Dinitrotoluene	165	9.538	9.538	0.0	84	41064	51.5	
149 Acenaphthylene	152	9.603	9.603	0.0	90	230365	51.8	
150 3-Nitroaniline	138	9.758	9.758	0.0	89	43777	54.1	
151 Acenaphthene	153	9.832	9.832	0.0	93	147957	47.5	
152 2,4-Dinitrophenol	184	9.891	9.891	0.0	79	47349	92.1	
153 4-Nitrophenol	109	10.051	10.051	0.0	56	50572	90.9	
155 Dibenzofuran	168	10.051	10.051	0.0	77	218275	49.5	
154 2,4-Dinitrotoluene	165	10.051	10.051	0.0	66	57277	52.1	
158 2,3,4,6-Tetrachlorophenol	232	10.217	10.217	0.0	95	45743	48.5	
160 Diethyl phthalate	149	10.356	10.356	0.0	96	172461	49.5	
161 Fluorene	166	10.463	10.463	0.0	82	187440	51.2	
162 4-Chlorophenyl phenyl ether	204	10.468	10.468	0.0	91	92292	45.5	
164 4-Nitroaniline	138	10.511	10.511	0.0	75	42039	51.6	
166 4,6-Dinitro-2-methylphenol	198	10.543	10.543	0.0	83	73054	98.6	
168 1,2-Diphenylhydrazine	77	10.655	10.655	0.0	96	168424	51.9	
170 Azobenzene	77	10.655	10.655	0.0	96	168424	55.3	
176 4-Bromophenyl phenyl ether	248	11.024	11.024	0.0	97	55451	49.9	
177 Hexachlorobenzene	284	11.093	11.093	0.0	84	57983	48.1	
181 Pentachlorophenol	266	11.317	11.317	0.0	83	67492	90.4	
185 Phenanthrene	178	11.526	11.526	0.0	96	262698	52.0	
188 Anthracene	178	11.579	11.579	0.0	97	274941	52.9	
189 Carbazole	167	11.756	11.756	0.0	82	249555	55.5	
192 Di-n-butyl phthalate	149	12.108	12.108	0.0	100	283909	53.6	
197 Fluoranthene	202	12.701	12.701	0.0	96	298186	51.5	
199 Pyrene	202	12.909	12.909	0.0	98	305440	53.1	
205 Butyl benzyl phthalate	149	13.481	13.481	0.0	96	138648	56.8	
210 Bis(2-ethylhexyl) phthalate	149	13.973	13.973	0.0	95	191796	55.9	
209 Benzo[a]anthracene	228	13.978	13.978	0.0	98	333067	53.5	
211 Chrysene	228	14.015	14.015	0.0	90	303906	48.4	
212 Di-n-octyl phthalate	149	14.517	14.517	0.0	99	330879	57.1	
213 Benzo[b]fluoranthene	252	14.934	14.934	0.0	83	355121	55.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
214 Benzo[k]fluoranthene	252	14.961	14.961	0.0	85	340773	49.4	
217 Benzo[a]pyrene	252	15.255	15.255	0.0	99	320459	53.1	
219 Indeno[1,2,3-cd]pyrene	276	16.489	16.489	0.0	87	377608	49.5	
220 Dibenz(a,h)anthracene	278	16.494	16.494	0.0	51	323397	49.4	
221 Benzo[g,h,i]perylene	276	16.825	16.825	0.0	91	279702	45.9	
S 222 Total Cresols	1				0		106.7	
S 77 3 & 4 Methylphenol	108				0		53.5	
S 78 3-Methylphenol	1				0		53.5	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0565.D

Injection Date: 13-Sep-2013 00:55:30

Limit Group: MB - 8270C ICAL

Client ID:

Instrument ID: HP5973U

Lims Batch ID: 138717

Lims Sample ID: 3

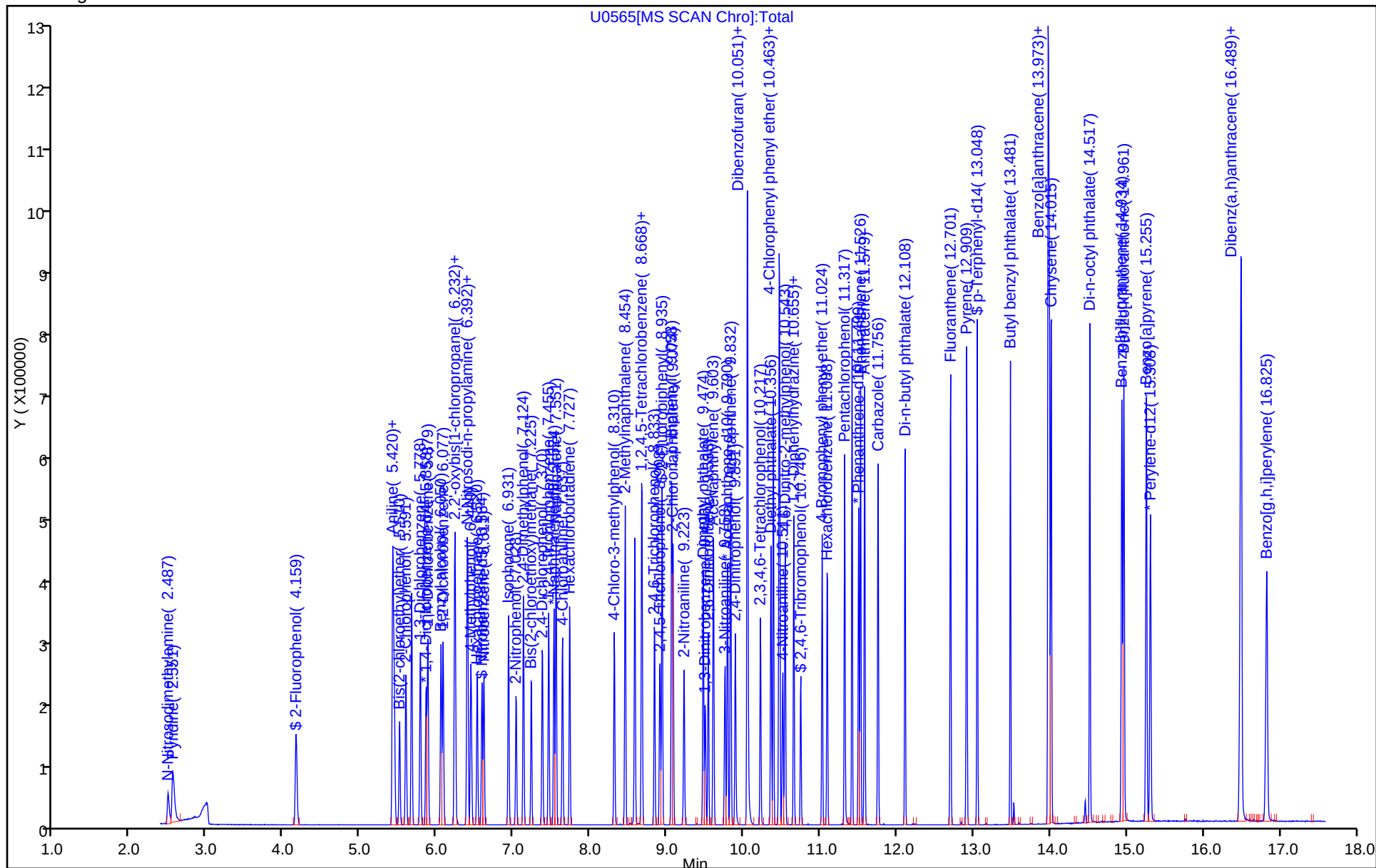
Operator ID: anm

Injection Vol: 1.0 ul

Column Type: RXI-5Sil MS

Column Dia: 0.25 mm

Y Scaling:



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9886.D
Lims ID: DFTPP Client ID:
Inject. Date: 12-Aug-2013 09:38:30 Dil. Factor: 1.0000
Sample Type: DFTPP
Sample ID: 480-0024271-002
Misc. Info.:
Operator: anm Instrument ID: HP5973U
Injection Vol: 1.0 ul ALS Bottle#: 2
Lims Batch ID: 133479 Lims Sample ID: 2
Detector: MS SCAN
Method: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U-8270.m
Last Update: 03-Sep-2013 12:51:35 Calib Date: 12-Aug-2013 13:25:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9896.D
Limit Group: MB - 8270C ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: RXI-5Sil MS Column Dia: 0.25 mm
Process Host: XAWRK003

First Level Reviewer: mcgoverna

Date: 12-Aug-2013 14:36:32

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
108 Pentachlorophenol_T	266	6.901	6.901	0.0	82	92545	0	
114 DFTPP								
130 Benzidine_T	184	8.327	8.327	0.0	86	472252	0	
134 4,4'-DDE	246		8.519					
137 4,4'-DDD	235	8.813	8.813	0.0	1	820	0	
141 4,4'-DDT	235	9.043	9.043	0.0	95	274094	0	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9886.D

Injection Date: 12-Aug-2013 09:38:30

Limit Group: MB - 8270C ICAL

Client ID:

Instrument ID: HP5973U

Lims Batch ID: 133479

Lims Sample ID: 2

Operator ID: anm

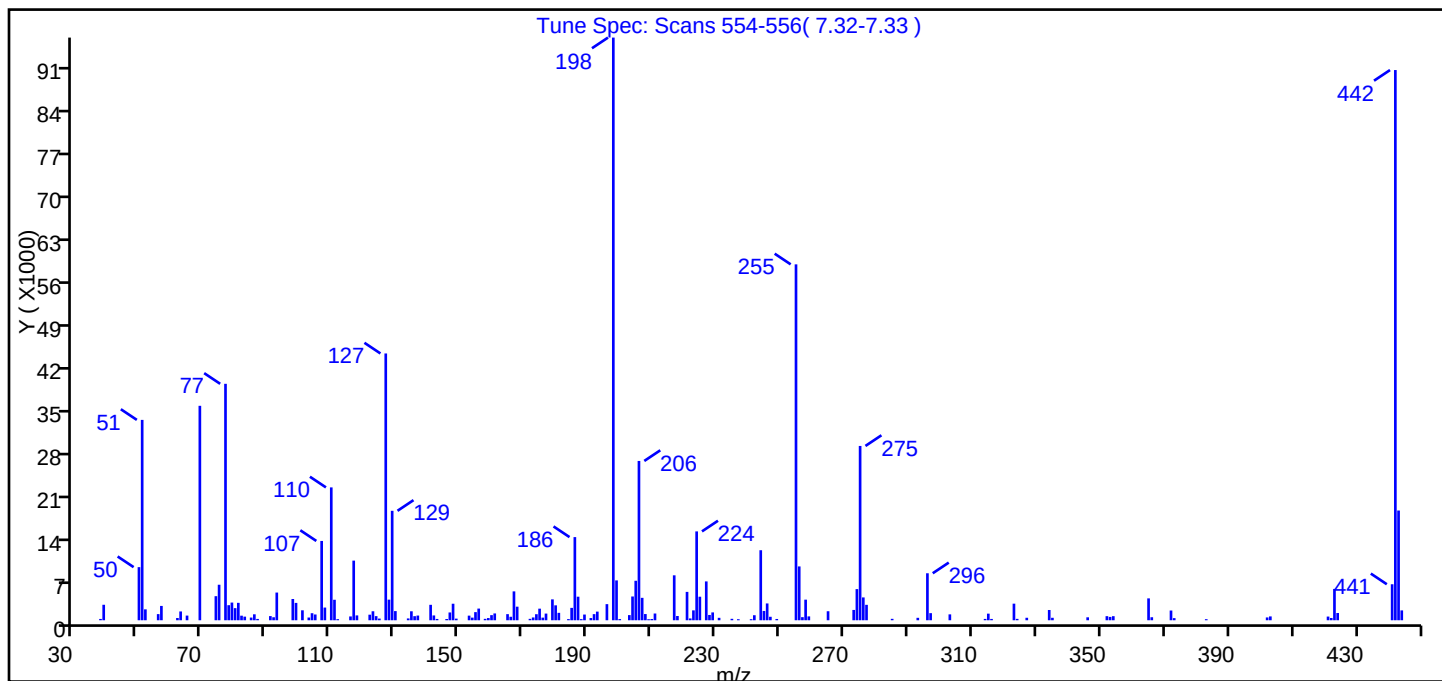
Injection Vol: 1.0 ul

Column Type: RXI-5Sil MS

Column Dia: 0.25 mm

Tune Method: DFTPP Method 8270

114 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	34.39
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Present	36.80
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	45.79
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.84
275	10.00 - 30.00% of mass 198	29.92
365	Greater than 1.00% of mass 198	3.76
441	Present, but less than mass 443%	6.18 (32.81)
442	Greater than 40.00% of mass 198	94.43
443	17.00 - 23.00% of mass 442	18.83 (19.94)

Data File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9886.D\U-8270.rslt\spectra.d
Injection Date: 12-Aug-2013 09:38:30
Spectrum: Tune Spec: Scans 554-556(7.32-7.33)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 165

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	214	124.00	674	188.00	182	259.00	632
39.00	2535	125.00	275	189.00	935	265.00	1476
50.00	8692	127.00	43664	191.00	361	273.00	1688
51.00	32792	128.00	3370	192.00	1001	274.00	5098
52.00	1786	129.00	17912	193.00	1414	275.00	28528
56.00	1005	130.00	1498	196.00	2638	276.00	3737
57.00	2345	134.00	298	198.00	95360	277.00	2524
62.00	368	135.00	1470	199.00	6524	285.00	233
63.00	1441	136.00	668	200.00	195	293.00	399
65.00	764	137.00	769	203.00	843	296.00	7691
69.00	35096	141.00	2527	204.00	3890	297.00	1163
74.00	3941	142.00	787	205.00	6463	303.00	964
75.00	5813	143.00	213	206.00	26072	314.00	220
77.00	38696	146.00	203	207.00	3669	315.00	1082
78.00	2465	147.00	1276	208.00	1016	316.00	216
79.00	2895	148.00	2705	209.00	167	323.00	2716
80.00	1981	149.00	265	210.00	206	324.00	226
81.00	2851	153.00	756	211.00	1104	327.00	407
82.00	747	154.00	431	217.00	7355	334.00	1679
83.00	592	155.00	1330	218.00	696	335.00	403
85.00	440	156.00	1911	221.00	4642	346.00	481
86.00	974	158.00	233	222.00	296	352.00	669
87.00	217	159.00	361	223.00	1620	353.00	548
91.00	681	160.00	836	224.00	14543	354.00	668
92.00	490	161.00	1115	225.00	3852	365.00	3581
93.00	4533	165.00	999	227.00	6359	366.00	494
98.00	3479	166.00	569	228.00	865	372.00	1593
99.00	2841	167.00	4726	229.00	1284	373.00	347
101.00	1629	168.00	2222	231.00	398	383.00	176
103.00	446	172.00	231	235.00	236	402.00	462
104.00	1152	173.00	457	237.00	169	403.00	629
105.00	946	174.00	990	241.00	172	421.00	604
107.00	12979	175.00	1897	242.00	823	422.00	373

Report Date: 03-Sep-2013 12:51:35

Chrom Revision: 2.1 01-Aug-2013 12:45:24

Data File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9886.D\U-8270.rslt\spectra.d

Injection Date: 12-Aug-2013 09:38:30

Spectrum: Tune Spec: Scans 554-556(7.32-7.33)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 165

m/z	Y	m/z	Y	m/z	Y	m/z	Y
108.00	2077	176.00	430	244.00	11461	423.00	5126
110.00	21744	177.00	1092	245.00	1522	424.00	1187
111.00	3354	179.00	3420	246.00	2751	441.00	5893
112.00	181	180.00	2442	247.00	569	442.00	90048
116.00	624	181.00	1215	249.00	210	443.00	17960
117.00	9760	184.00	189	255.00	58248	444.00	1615
118.00	793	185.00	2026	256.00	8810		
122.00	911	186.00	13609	257.00	506		
123.00	1471	187.00	3855	258.00	3371		

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9886.D
Injection Date: 12-Aug-2013 09:38:30 Limit Group: MB - 8270C ICAL
Client ID: Instrument ID: HP5973U
Lims Batch ID: 133479 Lims Sample ID: 2
Operator ID: anm Injection Vol: 1.0 ul
Column Type: RXI-5Sil MS Column Dia: 0.25 mm

141 4,4'-DDT, Detector: MS SCAN

SW-846 Method

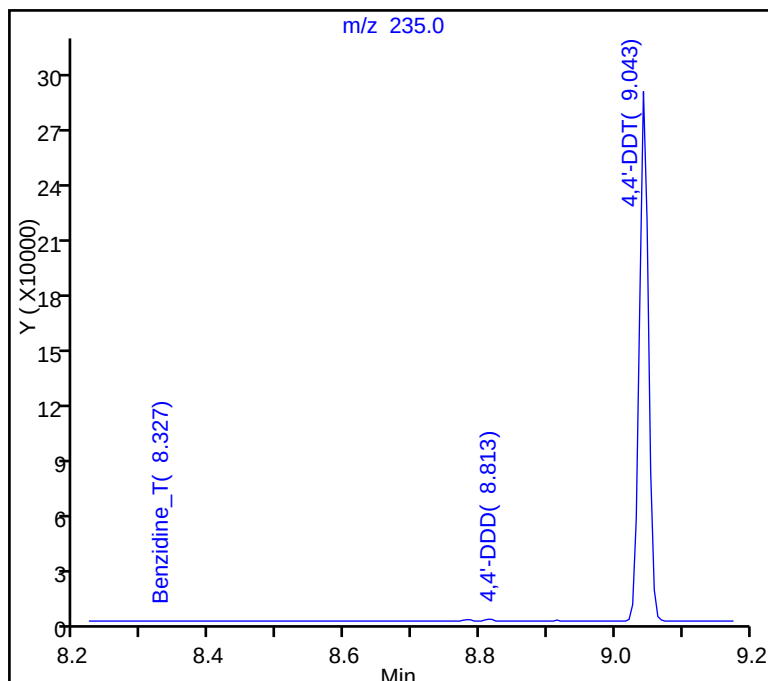
%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

141 4,4'-DDT, Area = 274094

137 4,4'-DDD, Area = 820

134 4,4'-DDE, Area = 0

%Breakdown: 0.30%, Max Limit: 20.00%
Passed



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9886.D

Injection Date: 12-Aug-2013 09:38:30

Limit Group: MB - 8270C ICAL

Client ID:

Instrument ID: HP5973U

Lims Batch ID: 133479

Lims Sample ID: 2

Operator ID: anm

Injection Vol: 1.0 ul

Column Type: RXI-5Sil MS

Column Dia: 0.25 mm

130 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =

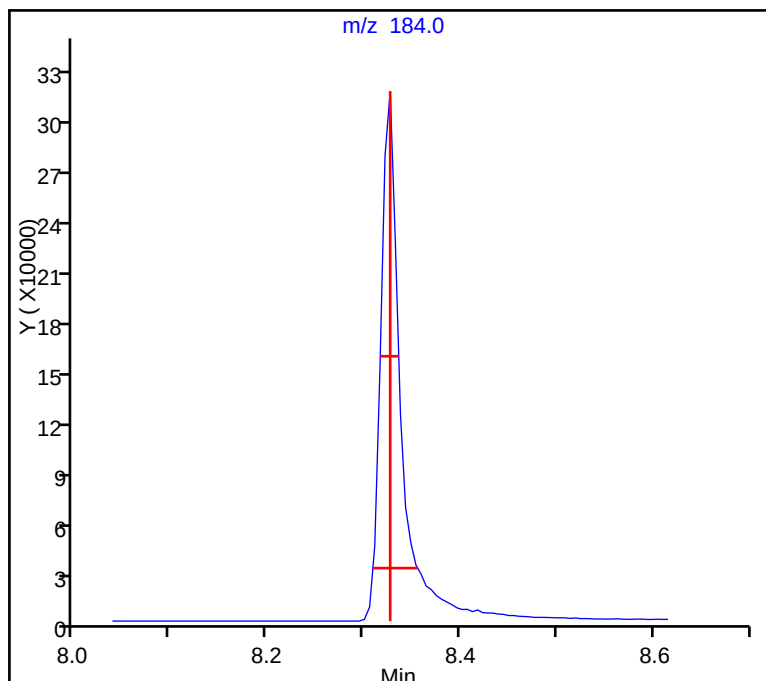
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.029 (min.)

Front Width = 0.018 (min.)

Tailing Factor = 1.6, Max. Tailing < 3.00

Passed



TestAmerica Buffalo

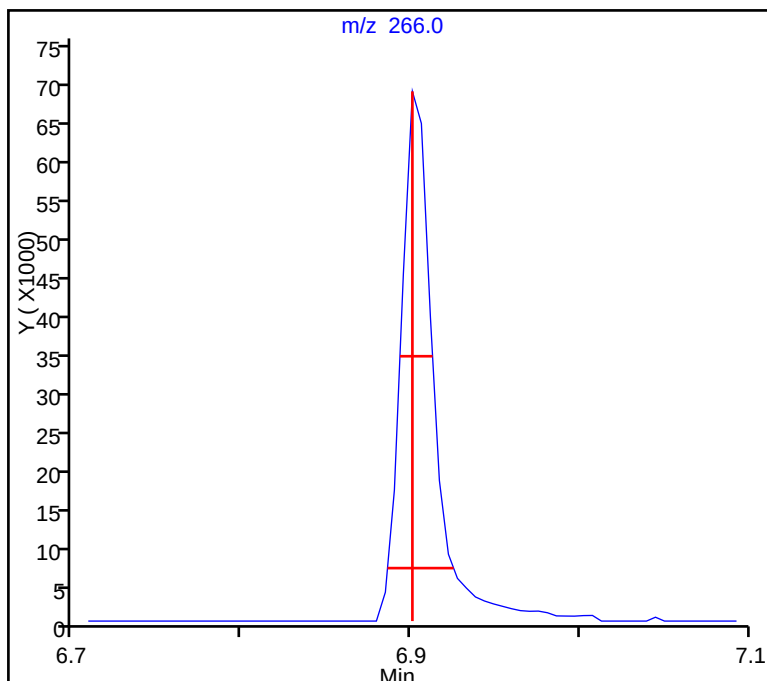
Data File:	\\Bufchrom\ChromData\HP5973U\20130812-24271.b\U9886.D		
Injection Date:	12-Aug-2013 09:38:30	Limit Group:	MB - 8270C ICAL
Client ID:		Instrument ID:	HP5973U
Lims Batch ID:	133479	Lims Sample ID:	2
Operator ID:	anm	Injection Vol:	1.0 ul
Column Type:	RXI-5Sil MS	Column Dia:	0.25 mm

108 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.024 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.7, Max. Tailing < 5.00
Passed



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0564.D
Lims ID: DFTPP Client ID:
Inject. Date: 13-Sep-2013 00:39:30 Dil. Factor: 1.0000
Sample Type: DFTPP
Sample ID: 480-0025167-002
Misc. Info.:
Operator: anm Instrument ID: HP5973U
Injection Vol: 1.0 ul ALS Bottle#: 2
Lims Batch ID: 138717 Lims Sample ID: 2
Detector: MS SCAN
Method: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U-8270.m
Last Update: 13-Sep-2013 01:35:21 Calib Date: 31-Aug-2013 05:59:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973U\20130830-24838.b\U0334.D
Limit Group: MB - 8270C ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: RXI-5Sil MS Column Dia: 0.25 mm
Process Host: XAWRK040

First Level Reviewer: rimmera

Date: 13-Sep-2013 01:35:21

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
108 Pentachlorophenol_T	266	6.837	6.837	0.0	84	74550	0	
114 DFTPP								
130 Benzidine_T	184	8.258	8.258	0.0	97	429009	0	
134 4,4'-DDE	246		8.461					
137 4,4'-DDD	235		8.744					
141 4,4'-DDT	235	8.979	8.979	0.0	95	218938	0	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0564.D

Injection Date: 13-Sep-2013 00:39:30

Limit Group: MB - 8270C ICAL

Client ID:

Instrument ID: HP5973U

Lims Batch ID: 138717

Lims Sample ID: 2

Operator ID: anm

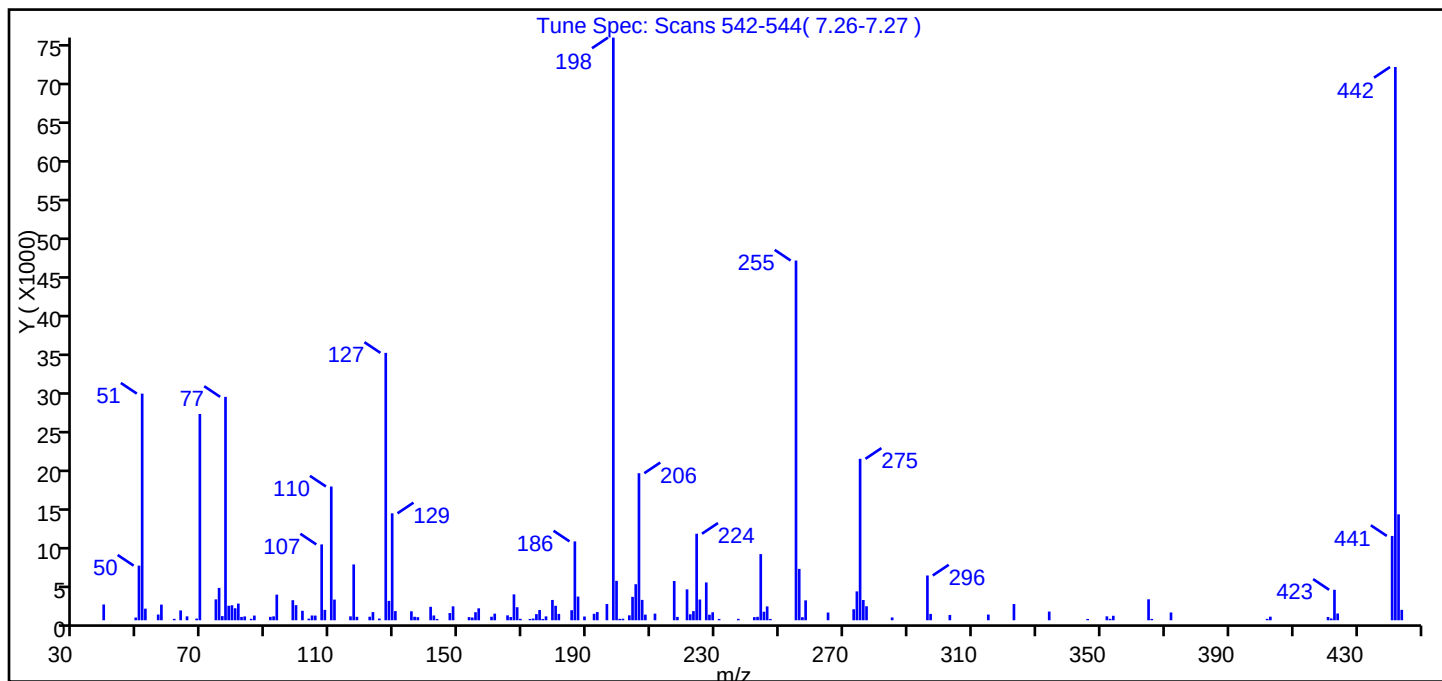
Injection Vol: 1.0 ul

Column Type: RXI-5Sil MS

Column Dia: 0.25 mm

Tune Method: DFTPP Method 8270

114 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	38.90
68	Less than 2.00% of mass 69	0.28 (0.80)
69	Present	35.40
70	Less than 2.00% of mass 69	0.00 (0.00)
127	40.00 - 60.00% of mass 198	45.89
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.77
275	10.00 - 30.00% of mass 198	27.71
365	Greater than 1.00% of mass 198	3.60
441	Present, but less than mass 443%	14.47 (79.61)
442	Greater than 40.00% of mass 198	94.95
443	17.00 - 23.00% of mass 442	18.18 (19.14)

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0564.D\U-8270.rslt\spectra.d
Injection Date: 13-Sep-2013 00:39:30
Spectrum: Tune Spec: Scans 542-544(7.26-7.27)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 145

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	2050	116.00	505	181.00	826	255.00	46752
49.00	354	117.00	7256	185.00	1306	256.00	6676
50.00	7098	118.00	450	186.00	10249	257.00	400
51.00	29456	122.00	459	187.00	3080	258.00	2583
52.00	1508	123.00	1059	189.00	486	265.00	1003
56.00	748	125.00	220	192.00	842	273.00	1431
57.00	2035	127.00	34752	193.00	1066	274.00	3752
61.00	184	128.00	2520	196.00	2109	275.00	20984
63.00	1278	129.00	13899	198.00	75728	276.00	2628
65.00	505	130.00	1191	199.00	5124	277.00	1818
68.00	215	135.00	1161	200.00	183	285.00	366
69.00	26808	136.00	454	201.00	198	296.00	5820
74.00	2712	137.00	401	203.00	642	297.00	826
75.00	4206	141.00	1747	204.00	3040	303.00	688
76.00	539	142.00	621	205.00	4682	315.00	744
77.00	29032	143.00	169	206.00	19112	323.00	2108
78.00	1882	147.00	937	207.00	2645	334.00	1131
79.00	1947	148.00	1810	208.00	734	346.00	172
80.00	1557	153.00	405	211.00	863	352.00	510
81.00	2165	154.00	357	217.00	5105	353.00	187
82.00	435	155.00	1045	218.00	436	354.00	584
83.00	497	156.00	1552	221.00	4015	365.00	2726
85.00	189	160.00	456	222.00	780	366.00	173
86.00	608	161.00	856	223.00	1188	372.00	1010
91.00	443	165.00	638	224.00	11245	402.00	182
92.00	506	166.00	424	225.00	2696	403.00	465
93.00	3328	167.00	3366	227.00	4914	421.00	426
98.00	2609	168.00	1694	228.00	721	422.00	231
99.00	1961	169.00	184	229.00	1038	423.00	3961
101.00	1229	172.00	170	231.00	172	424.00	880
103.00	207	173.00	223	237.00	186	441.00	10959
104.00	619	174.00	795	242.00	409	442.00	71904
105.00	608	175.00	1334	243.00	445	443.00	13766

Report Date: 13-Sep-2013 01:35:21

Chrom Revision: 2.1 01-Aug-2013 12:45:24

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0564.D\U-8270.rslt\spectra.d

Injection Date: 13-Sep-2013 00:39:30

Spectrum: Tune Spec: Scans 542-544(7.26-7.27)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 145

m/z	Y	m/z	Y	m/z	Y	m/z	Y
107.00	9855	176.00	171	244.00	8596	444.00	1350
108.00	1347	177.00	503	245.00	1109		
110.00	17384	179.00	2639	246.00	1801		
111.00	2688	180.00	1882	247.00	170		

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0564.D

Injection Date: 13-Sep-2013 00:39:30

Limit Group: MB - 8270C ICAL

Client ID:

Instrument ID: HP5973U

Lims Batch ID: 138717

Lims Sample ID: 2

Operator ID: anm

Injection Vol: 1.0 ul

Column Type: RXI-5Sil MS

Column Dia: 0.25 mm

141 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =

$$\left(\frac{\text{Area Breakdown Cpnds}}{\text{Total Area Breakdown Cpnds}} \right) * 100$$

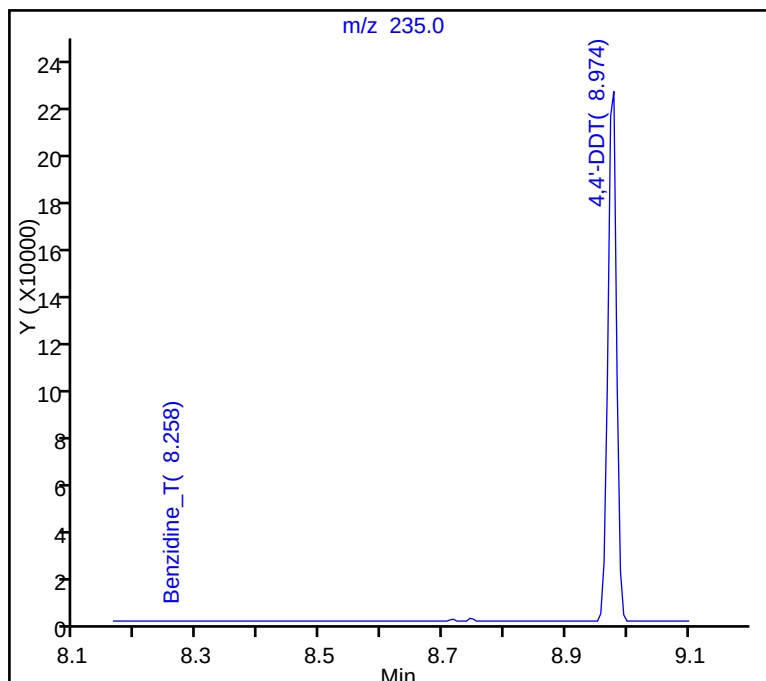
141 4,4'-DDT, Area = 218938

137 4,4'-DDD, Area = 0

134 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%

Passed



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0564.D

Injection Date: 13-Sep-2013 00:39:30

Limit Group: MB - 8270C ICAL

Client ID:

Instrument ID: HP5973U

Lims Batch ID: 138717

Lims Sample ID: 2

Operator ID: anm

Injection Vol: 1.0 ul

Column Type: RXI-5Sil MS

Column Dia: 0.25 mm

130 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =

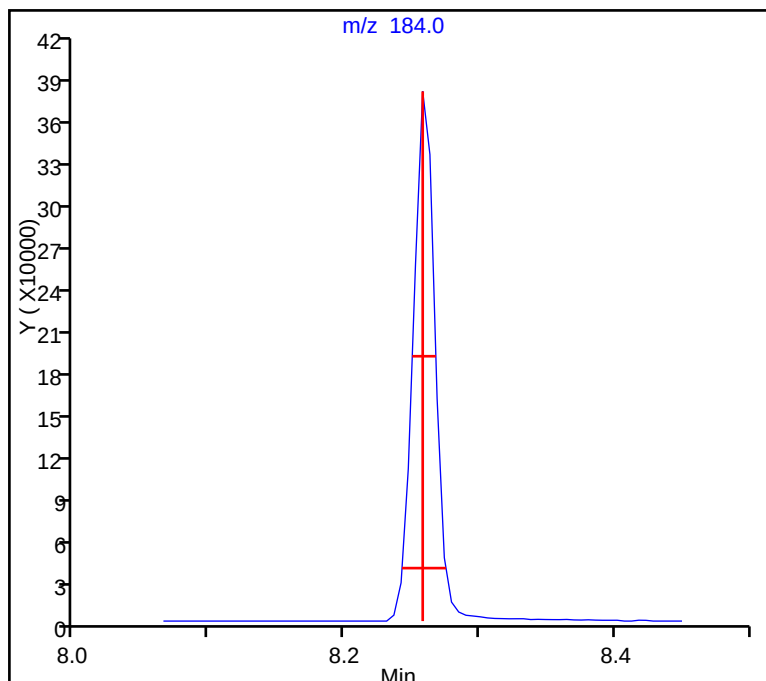
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)

Front Width = 0.015 (min.)

Tailing Factor = 1.1, Max. Tailing < 3.00

Passed



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0564.D

Injection Date: 13-Sep-2013 00:39:30

Limit Group: MB - 8270C ICAL

Client ID:

Instrument ID: HP5973U

Lims Batch ID: 138717

Lims Sample ID: 2

Operator ID: anm

Injection Vol: 1.0 ul

Column Type: RXI-5Sil MS

Column Dia: 0.25 mm

108 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =

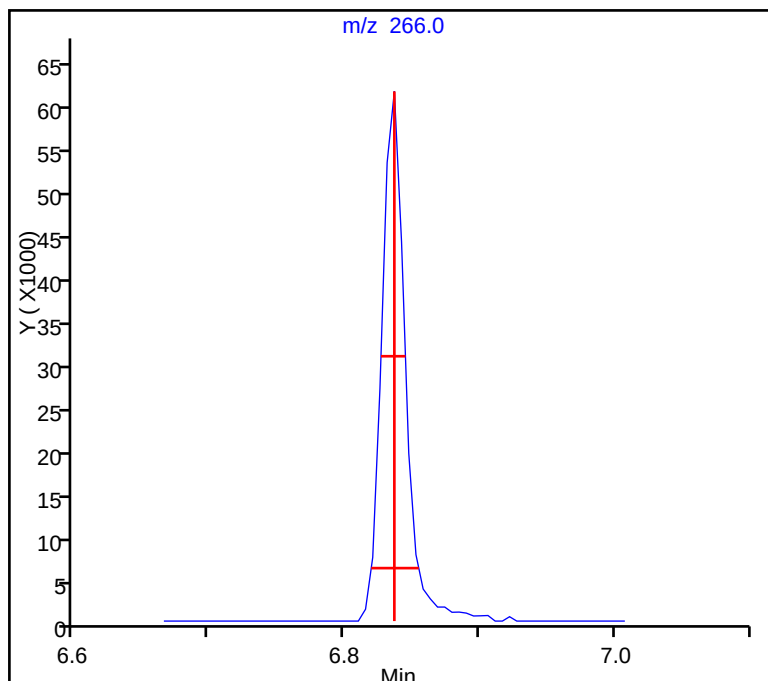
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.018 (min.)

Front Width = 0.017 (min.)

Tailing Factor = 1.1, Max. Tailing < 5.00

Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 480-138326/1-A
Matrix: Water Lab File ID: U0566.D
Analysis Method: 8270C Date Collected: _____
Extract. Method: 3510C Date Extracted: 09/11/2013 07:08
Sample wt/vol: 1000 (mL) Date Analyzed: 09/13/2013 01:18
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 138717 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-47-8	4-Chloroaniline	ND		5.0	0.59
91-20-3	Naphthalene	ND		5.0	0.76

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	85		46-120
321-60-8	2-Fluorobiphenyl	86		48-120
1718-51-0	p-Terphenyl-d14	97		67-150

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0566.D
 Lims ID: MB 480-138326/1-A Client ID:
 Inject. Date: 13-Sep-2013 01:18:30 Dil. Factor: 1.0000
 Sample Type: MB
 Sample ID: 480-0025167-004
 Misc. Info.:
 Operator: anm Instrument ID: HP5973U
 Injection Vol: 1.0 ul ALS Bottle#: 35
 Lims Batch ID: 138717 Lims Sample ID: 4
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U-8270.m
 Last Update: 13-Sep-2013 02:42:37 Calib Date: 31-Aug-2013 05:59:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973U\20130830-24838.b\U0334.D
 Limit Group: MB - 8270C ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: RXI-5Sil MS Column Dia: 0.25 mm
 Process Host: XAWRK040

First Level Reviewer: rimmera

Date: 13-Sep-2013 02:42:37

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.857	5.858	-0.001	94	43680	40.0	
* 2 Naphthalene-d8	136	7.524	7.524	0.0	99	169275	40.0	
* 3 Acenaphthene-d10	164	9.789	9.790	-0.001	97	106628	40.0	
* 4 Phenanthrene-d10	188	11.499	11.499	0.0	98	185569	40.0	
* 5 Chrysene-d12	240	13.988	13.994	-0.006	79	236564	40.0	
* 6 Perylene-d12	264	15.308	15.308	0.0	87	232507	40.0	
\$ 9 2-Fluorophenol	112	4.164	4.159	0.005	90	30680	23.5	
\$ 10 Phenol-d5	99	5.425	5.420	0.005	60	27584	16.8	
\$ 11 Nitrobenzene-d5	82	6.584	6.584	0.0	89	63923	42.4	
\$ 12 2-Fluorobiphenyl	172	8.935	8.935	0.0	99	148142	42.9	
\$ 13 2,4,6-Tribromophenol	330	10.746	10.746	0.0	87	21506	39.6	
\$ 14 p-Terphenyl-d14	244	13.048	13.048	0.0	97	217854	48.6	
80 1,4-Dioxane	88		2.422					
81 N-Nitrosodimethylamine	42		2.487					
82 Pyridine	52		2.551					
83 2-Picoline	93		2.978					
84 N-Nitrosomethylethylamine	88		3.112					
85 Methyl methanesulfonate	80		3.582					
86 N-Nitrosodiethylamine	102		4.186					
87 Ethyl methanesulfonate	79		4.640					
88 Benzaldehyde	77		5.307					
92 Pentachloroethane	167		5.356					
90 Aniline	93		5.420					
89 Phenol	94		5.441					
91 Bis(2-chloroethyl)ether	93		5.510					
93 2-Chlorophenol	128		5.591					
94 1,3-Dichlorobenzene	146		5.783					
95 1,4-Dichlorobenzene	146		5.879					
96 Benzyl alcohol	108		6.050					
97 1,2-Dichlorobenzene	146		6.077					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
98 2-Methylphenol	108		6.232					
99 2,2'-oxybis[1-chloropropane]	45		6.232					
100 N-Nitrosopyrrolidine	100		6.264					
103 N-Nitrosomorpholine	56		6.323					
105 2-Toluidine	106		6.371					
104 Acetophenone	105		6.392					
101 N-Nitrosodi-n-propylamine	70		6.403					
102 4-Methylphenol	108		6.440					
106 Hexachloroethane	117		6.520					
107 Nitrobenzene	77		6.611					
109 N-Nitrosopiperidine	114		6.734					
110 Isophorone	82		6.931					
111 2-Nitrophenol	139		7.033					
112 2,4-Dimethylphenol	107		7.124					
116 o,o',o''-Triethylphosphorothioat	198		7.156					
113 Tetraethyl lead	237		7.161					
115 Bis(2-chloroethoxy)methane	93		7.231					
118 alpha,alpha-Dimethyl phenethylam	58		7.295					
117 2,4-Dichlorophenol	162		7.375					
119 Benzoic acid	105		7.391					
120 1,2,4-Trichlorobenzene	180		7.455					
66 4-Chlorophenol	128		7.535					
122 Alpha-Terpineol	59		7.541					
121 Naphthalene	128		7.551					
123 4-Chloroaniline	127		7.637					
126 Hexachlorobutadiene	225		7.727					
124 2,6-Dichlorophenol	162		7.733					
125 Hexachloropropene	213		7.749					
129 N-Nitrosodi-n-butylamine	84		8.017					
128 p-Phenylene diamine	108		8.054					
127 Caprolactam	113		8.133					
131 4-Chloro-3-methylphenol	107		8.310					
132 Safrole, Total	162		8.438					
133 2-Methylnaphthalene	142		8.454					
135 Phthalic anhydride	104		8.486					
136 Hexachlorocyclopentadiene	237		8.668					
138 1,2,4,5-Tetrachlorobenzene	216		8.673					
42 1,4-Naphthoquinone	158		8.719					
142 Isosafrole	162		8.813					
139 2,4,6-Trichlorophenol	196		8.839					
140 2,4,5-Trichlorophenol	196		8.908					
144 1,1'-Biphenyl	154		9.058					
143 2-Chloronaphthalene	162		9.079					
145 2-Nitroaniline	65		9.223					
147 Dimethyl phthalate	163		9.474					
50 1,3-Dinitrobenzene	168		9.501					
148 2,6-Dinitrotoluene	165		9.538					
149 Acenaphthylene	152		9.603					
146 1,4-Dinitrobenzene	168		9.613					
150 3-Nitroaniline	138		9.758					
151 Acenaphthene	153		9.832					
152 2,4-Dinitrophenol	184		9.891					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
153 4-Nitrophenol	109		10.051					
154 2,4-Dinitrotoluene	165		10.051					
155 Dibenzofuran	168		10.051					
156 Pentachlorobenzene	250		10.094					
157 1-Naphthylamine	143		10.116					
159 2-Naphthylamine	143		10.212					
158 2,3,4,6-Tetrachlorophenol	232		10.217					
160 Diethyl phthalate	149		10.356					
163 Thionazin	97		10.415					
165 N-Nitro-o-toluidine	152		10.452					
161 Fluorene	166		10.463					
162 4-Chlorophenyl phenyl ether	204		10.468					
164 4-Nitroaniline	138		10.511					
166 4,6-Dinitro-2-methylphenol	198		10.543					
29 Tributyl phosphate	99		10.586					
167 N-Nitrosodiphenylamine	169		10.633					
170 Azobenzene	77		10.655					
168 1,2-Diphenylhydrazine	77		10.655					
169 Diphenylamine	169		10.708					
171 Sulfotepp	322		10.783					
173 Diallate	43		10.922					
174 Phorate	75		10.922					
176 4-Bromophenyl phenyl ether	248		11.024					
172 1,3,5-Trinitrobenzene	213		11.072					
175 Phenacetin	108		11.088					
177 Hexachlorobenzene	284		11.093					
178 Dimethoate	87		11.104					
179 Simazine	201		11.157					
180 Atrazine	200		11.243					
182 4-Aminobiphenyl	169		11.280					
181 Pentachlorophenol	266		11.317					
183 Pentachloronitrobenzene	237		11.413					
184 Pronamide	173		11.478					
186 Dinoseb	211		11.489					
187 Disulfoton	88		11.489					
185 Phenanthrene	178		11.526					
188 Anthracene	178		11.579					
189 Carbazole	167		11.756					
190 Methyl parathion	109		11.868					
191 Alachlor	160		11.879					
192 Di-n-butyl phthalate	149		12.108					
193 Ethyl Parathion	97		12.253					
195 Methapyrilene	58		12.397					
194 4-Nitroquinoline-1-oxide	190		12.423					
196 Isodrin	193		12.653					
197 Fluoranthene	202		12.701					
198 Benzidine	184		12.845					
199 Pyrene	202		12.909					
200 Aramite, Total	185		13.123					
201 p-Dimethylamino azobenzene	120		13.145					
202 Chlorobenzilate	139		13.315					
204 Famphur	218		13.401					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
205 Butyl benzyl phthalate	149		13.481					
203 3,3'-Dimethylbenzidine	212		13.502					
206 Kepone	272		13.633					
207 2-Acetylaminofluorene	181		13.668					
208 3,3'-Dichlorobenzidine	252		13.972					
210 Bis(2-ethylhexyl) phthalate	149		13.973					
209 Benzo[a]anthracene	228		13.978					
211 Chrysene	228		14.015					
212 Di-n-octyl phthalate	149		14.517					
215 7,12-Dimethylbenz(a)anthracene	256		14.854					
213 Benzo[b]fluoranthene	252		14.934					
214 Benzo[k]fluoranthene	252		14.961					
216 Hexachlorophene	196		15.020					
217 Benzo[a]pyrene	252		15.255					
218 3-Methylcholanthrene	252		15.501					
219 Indeno[1,2,3-cd]pyrene	276		16.489					
220 Dibenz(a,h)anthracene	278		16.494					
221 Benzo[g,h,i]perylene	276		16.825					
32 Quinoline	129		0.0					
72 4-Chlorobenzotrifluoride	1		0.0					
230 2,4-Xylidine TIC	1		0.0					
228 o-Anisidine TIC	1		0.0					
46 2,4-Dichlorotoluene	1		0.0					
235 Octachlorostyrene	1		0.0					
226 Tris(2,3-dibromopropyl)phosphate	1		0.0					
236 Dibenz[a,j]acridine	279		0.0					
17 CN-500	1		0.0					
53 1,3,5-Trichlorobenzene	180		0.0					
244 Hexamethyldisiloxane TIC	1		0.0					
37 1-Hydroxyanthraquinone	1		0.0					
58 Chlorobenzotrifluoride N.O.S	1		0.0					
52 2,6-Dichlorotoluene	1		0.0					
59 Tricresyl phosphate	1		0.0					
56 Benzeneacetic acid (TIC)	1		0.0					
27 Pendimethalin	1		0.0					
61 CAG-800	1		0.0					
245 1-Bromopropane	1		0.0					
31 Dimethylformamide	1		0.0					
30 Dicyclohexylamine	1		0.0					
40 1-Methylcyclopentanol	1		0.0					
45 2-Aminopyridine	1		0.0					
34 1,4-Dihydroxyanthraquinone	1		0.0					
22 N-Methylaniline	1		0.0					
51 2-Chloroaniline	1		0.0					
54 p-Fluoroaniline	1		0.0					
241 2,4-Toluene diamine	1		0.0					
67 4-Chlorotoluene	91		0.0					
18 CU-600	1		0.0					
41 2-Chlorotoluene	91		0.0					
234 7H-Dibenzo[c,g]carbazole	1		0.0					
74 3-Chlorotoluene	1		0.0					
75 3-Chloropyridine	1		0.0					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
73 4-Methylbenzenamine	1		0.0					
71 Chlorotoluene N.O.S	1		0.0					
15 Lidocaine	1		0.0					
33 o-Anisidine	1		0.0					
36 2,3-Dichlorophenol	1		0.0					
238 Dibenzo[a,h]pyrene	1		0.0					
243 Tetramethyl lead TIC	1		0.0					
64 9-Octadecenamide	1		0.0					
62 Anthraquinone	1		0.0					
240 1,2:7,8-Dibenzpyrene	1		0.0					
19 NVF-400	1		0.0					
48 2-Chloropyridine	1		0.0					
68 4-Chloropyridine	1		0.0					
63 5-Ethyl-5-phenyl barbituric acid	1		0.0					
57 5-Methyl-o-Anisidine	1		0.0					
49 2,6-Dichloropyridine	1		0.0					
21 2-Chlorobenzotrifluoride	1		0.0					
232 4,4'-Methylene bis(2-chloroanili	1		0.0					
70 Phenylacetic Acid	1		0.0					
60 Benzeneacetone nitrile	1		0.0					
224 5-Methyl-o-Anisidine TIC	1		0.0					
24 Dibenzo[a,e]pyrene	1		0.0					
76 3-Chlorobenzotrifluoride	1		0.0					
229 1,3-phenylenediamine TIC	1		0.0					
225 CBF-400	1		0.0					
242 alpha,alpha-Dimethyl phenethylam	1		0.0					
227 CBF-500	1		0.0					
239 Benzo[j]fluoranthene	1		0.0					
237 Dibenz[a,h]acridine	279		0.0					
23 n,n'-Dimethylacetamide	1		0.0					
S 78 3-Methylphenol	1		0.0					
S 233 EPH Adjustment 1	1		0.0					
S 222 Total Cresols	1		0.0					
S 77 3 & 4 Methylphenol	108		0.0					
T 38 1-Methylnaphthalene (TIC)	142		0.0					
T 28 Pendimethalin (TIC)	1		0.0					
T 26 trans Azobenzene (TIC)	77		0.0					
T 65 Benefin (TIC)	1		0.0					
T 25 Prometryn (TIC)	1		0.0					
T 231 2,3,7,8-TCDD	1		0.0					

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0566.D

Injection Date: 13-Sep-2013 01:18:30

Limit Group: MB - 8270C ICAL

Client ID:

Instrument ID: HP5973U

Lims Batch ID: 138717

Lims Sample ID: 4

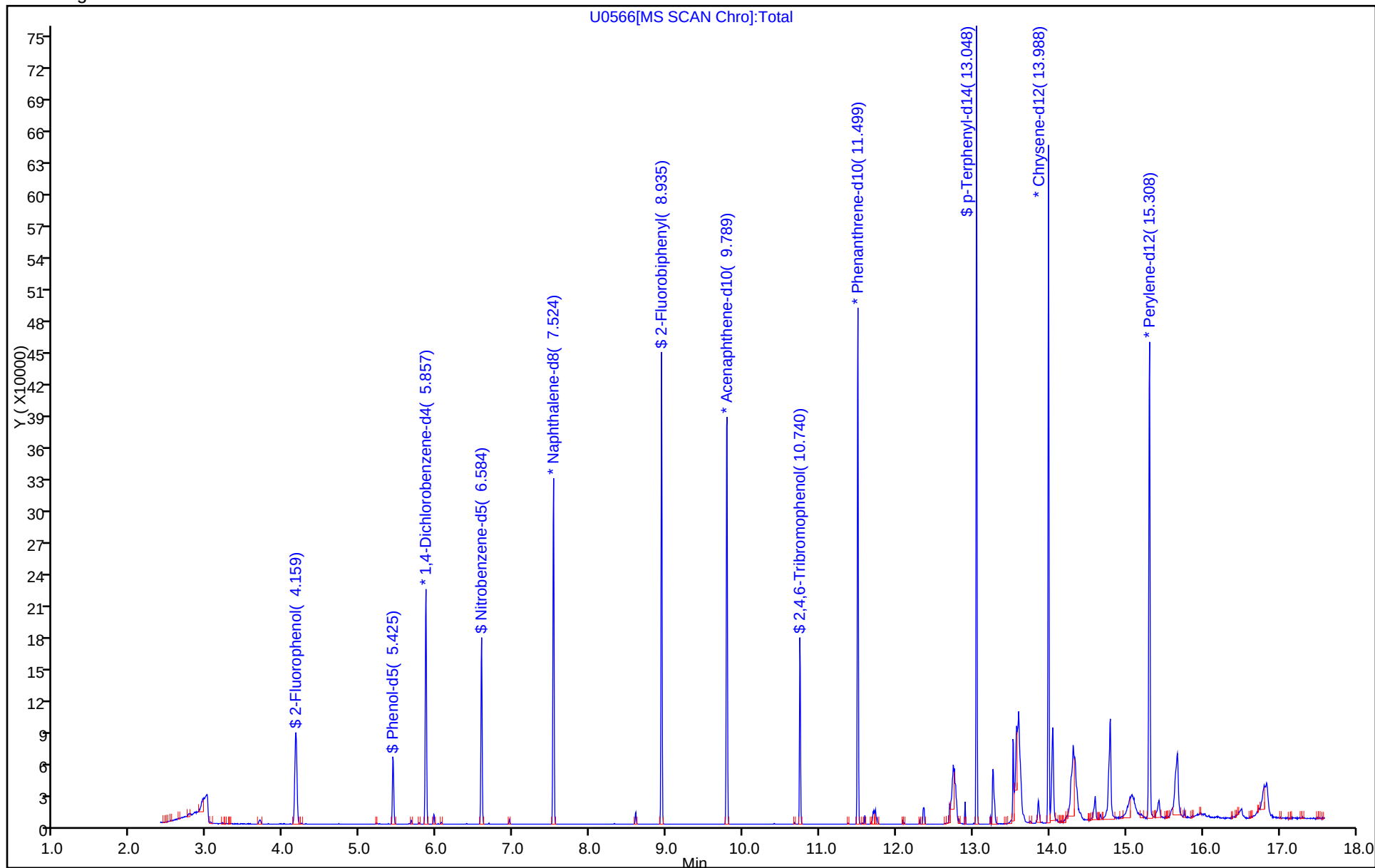
Operator ID: anm

Injection Vol: 1.0 ul

Column Type: RXI-5Sil MS

Column Dia: 0.25 mm

Y Scaling:



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 480-138326/2-A
Matrix: Water Lab File ID: U0567.D
Analysis Method: 8270C Date Collected: _____
Extract. Method: 3510C Date Extracted: 09/11/2013 07:08
Sample wt/vol: 1000 (mL) Date Analyzed: 09/13/2013 01:42
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 138717 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-47-8	4-Chloroaniline	42.7		5.0	0.59
91-20-3	Naphthalene	39.7		5.0	0.76

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	82		46-120
321-60-8	2-Fluorobiphenyl	83		48-120
1718-51-0	p-Terphenyl-d14	87		67-150

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0567.D

Lims ID: LCS 480-138326/2-A

Client ID:

Inject. Date: 13-Sep-2013 01:42:30

Dil. Factor: 1.0000

Sample Type: LCS

Sample ID: 480-0025167-005

Misc. Info.:

Operator: anm

Instrument ID: HP5973U

Injection Vol: 1.0 ul

ALS Bottle#: 36

Lims Batch ID: 138717

Lims Sample ID: 5

Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U-8270.m

Last Update: 13-Sep-2013 02:46:40

Calib Date: 31-Aug-2013 05:59:30

Quant Method: Internal Standard

Quant By: Initial Calibration

Last ICal File: \\Bufchrom\ChromData\HP5973U\20130830-24838.b\U0334.D

Limit Group: MB - 8270C ICAL

Integrator: RTE

ID Type: Deconvolution ID

Column Type: RXI-5Sil MS

Column Dia: 0.25 mm

Process Host: XAWRK040

First Level Reviewer: rimmera

Date: 13-Sep-2013 02:46:40

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.858	5.858	0.0	93	39534	40.0	
* 2 Naphthalene-d8	136	7.524	7.524	0.0	99	156580	40.0	
* 3 Acenaphthene-d10	164	9.789	9.790	-0.001	97	100668	40.0	
* 4 Phenanthrene-d10	188	11.499	11.499	0.0	99	176908	40.0	
* 5 Chrysene-d12	240	13.988	13.994	-0.006	79	229892	40.0	
* 6 Perylene-d12	264	15.308	15.308	0.0	84	225711	40.0	
\$ 9 2-Fluorophenol	112	4.159	4.159	0.0	91	24880	21.0	
\$ 10 Phenol-d5	99	5.425	5.420	0.005	66	23240	15.6	
\$ 11 Nitrobenzene-d5	82	6.584	6.584	0.0	88	56903	40.8	
\$ 12 2-Fluorobiphenyl	172	8.935	8.935	0.0	95	135673	41.6	
\$ 13 2,4,6-Tribromophenol	330	10.746	10.746	0.0	90	22433	43.3	
\$ 14 p-Terphenyl-d14	244	13.048	13.048	0.0	97	188448	43.3	
80 1,4-Dioxane	88		2.422					
81 N-Nitrosodimethylamine	42	2.487	2.487	0.0	65	13984	24.9	
82 Pyridine	52	2.545	2.551	-0.006	77	23474	32.0	
88 Benzaldehyde	77	5.270	5.307	-0.037	86	35587	42.2	
90 Aniline	93	5.419	5.420	-0.001	92	69918	34.9	
89 Phenol	94	5.441	5.441	0.0	86	28667	16.8	
91 Bis(2-chloroethyl)ether	93	5.505	5.510	-0.005	98	45541	36.3	
93 2-Chlorophenol	128	5.590	5.591	-0.001	91	44785	33.5	
94 1,3-Dichlorobenzene	146	5.777	5.783	-0.006	85	50214	33.6	
95 1,4-Dichlorobenzene	146	5.879	5.879	0.0	80	52008	33.9	
96 Benzyl alcohol	108	6.050	6.050	0.0	86	30932	37.3	
97 1,2-Dichlorobenzene	146	6.077	6.077	0.0	86	50310	34.8	
98 2-Methylphenol	108	6.231	6.232	-0.001	90	37287	32.1	
99 2,2'-oxybis[1-chloropropane]	45	6.231	6.232	-0.001	85	77927	56.6	
104 Acetophenone	105	6.392	6.392	0.0	92	73863	39.2	
101 N-Nitrosodi-n-propylamine	70	6.397	6.403	-0.006	92	37454	37.8	
102 4-Methylphenol	108	6.440	6.440	0.0	92	37981	31.3	
106 Hexachloroethane	117	6.520	6.520	0.0	90	19217	33.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
107 Nitrobenzene	77	6.611	6.611	0.0	86	55832	39.0	
110 Isophorone	82	6.931	6.931	0.0	95	94869	38.6	
111 2-Nitrophenol	139	7.033	7.033	0.0	94	28219	40.8	
112 2,4-Dimethylphenol	107	7.124	7.124	0.0	97	52896	37.5	
115 Bis(2-chloroethoxy)methane	93	7.230	7.231	-0.001	95	57123	39.8	
117 2,4-Dichlorophenol	162	7.375	7.375	0.0	91	47834	42.9	
119 Benzoic acid	105	7.284	7.391	-0.107	71	28252	39.5	
120 1,2,4-Trichlorobenzene	180	7.455	7.455	0.0	86	46768	34.2	
121 Naphthalene	128	7.551	7.551	0.0	96	155335	39.7	
123 4-Chloroaniline	127	7.636	7.637	-0.001	83	69849	42.7	
126 Hexachlorobutadiene	225	7.727	7.727	0.0	87	29924	32.9	
127 Caprolactam	113	8.085	8.085	-0.048	35	5593	15.0	
131 4-Chloro-3-methylphenol	107	8.315	8.310	0.005	92	51116	43.3	
133 2-Methylnaphthalene	142	8.454	8.454	0.0	82	108820	40.3	
136 Hexachlorocyclopentadiene	237	8.668	8.668	0.0	88	24189	25.7	
138 1,2,4,5-Tetrachlorobenzene	216	8.673	8.673	0.0	93	54014	35.8	
139 2,4,6-Trichlorophenol	196	8.838	8.839	-0.001	91	38296	42.6	
140 2,4,5-Trichlorophenol	196	8.908	8.908	0.0	86	40646	43.3	
144 1,1'-Biphenyl	154	9.058	9.058	0.0	95	137171	38.2	
143 2-Chloronaphthalene	162	9.079	9.079	0.0	95	110581	39.4	
145 2-Nitroaniline	65	9.223	9.223	0.0	63	39175	50.5	
147 Dimethyl phthalate	163	9.469	9.474	-0.005	98	144217	43.6	
50 1,3-Dinitrobenzene	168	9.496	9.501	-0.005	79	24705	45.4	
148 2,6-Dinitrotoluene	165	9.538	9.538	0.0	83	33634	45.6	
149 Acenaphthylene	152	9.608	9.603	0.005	90	173173	42.1	
150 3-Nitroaniline	138	9.757	9.758	-0.001	90	34777	46.6	
151 Acenaphthene	153	9.832	9.832	0.0	94	114884	39.8	
152 2,4-Dinitrophenol	184	9.891	9.891	0.0	76	36524	78.1	
153 4-Nitrophenol	109	10.062	10.051	0.011	72	16974	36.3	
155 Dibenzofuran	168	10.046	10.051	-0.005	80	170858	41.8	
154 2,4-Dinitrotoluene	165	10.051	10.051	0.0	63	45589	44.8	
158 2,3,4,6-Tetrachlorophenol	232	10.217	10.217	0.0	93	35237	40.3	
160 Diethyl phthalate	149	10.356	10.356	0.0	96	141727	43.9	
161 Fluorene	166	10.463	10.463	0.0	82	146455	43.2	
162 4-Chlorophenyl phenyl ether	204	10.468	10.468	0.0	92	72164	38.4	
164 4-Nitroaniline	138	10.505	10.511	-0.006	78	35307	47.0	
166 4,6-Dinitro-2-methylphenol	198	10.537	10.543	-0.006	83	58863	85.0	
167 N-Nitrosodiphenylamine	169	10.612	10.633	-0.021	99	104678	46.3	
170 Azobenzene	77	10.655	10.655	0.0	96	133690	46.5	
176 4-Bromophenyl phenyl ether	248	11.023	11.024	-0.001	95	44863	42.8	
177 Hexachlorobenzene	284	11.088	11.093	-0.005	88	46158	40.6	
180 Atrazine	200	11.221	11.243	-0.021	86	46625	49.4	
181 Pentachlorophenol	266	11.317	11.317	0.0	83	51885	74.4	
185 Phenanthrene	178	11.526	11.526	0.0	96	218236	45.7	
188 Anthracene	178	11.579	11.579	0.0	85	222261	45.3	
189 Carbazole	167	11.755	11.756	-0.001	83	212335	50.0	
192 Di-n-butyl phthalate	149	12.108	12.108	0.0	100	238173	47.6	
197 Fluoranthene	202	12.701	12.701	0.0	96	243803	44.6	
198 Benzidine	184	12.824	12.845	-0.021	86	46081	13.8	
199 Pyrene	202	12.909	12.909	0.0	98	252399	46.8	
205 Butyl benzyl phthalate	149	13.481	13.481	0.0	96	111708	48.8	
208 3,3'-Dichlorobenzidine	252	13.951	13.972	-0.021	93	93732	45.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
210 Bis(2-ethylhexyl) phthalate	149	13.972	13.973	-0.001	95	149716	46.6	
209 Benzo[a]anthracene	228	13.978	13.978	0.0	98	264061	45.2	
211 Chrysene	228	14.015	14.015	0.0	91	239960	40.7	
212 Di-n-octyl phthalate	149	14.517	14.517	0.0	99	264072	48.6	
213 Benzo[b]fluoranthene	252	14.934	14.934	0.0	82	277425	46.3	
214 Benzo[k]fluoranthene	252	14.961	14.961	0.0	89	263182	40.9	
217 Benzo[a]pyrene	252	15.255	15.255	0.0	87	243930	43.3	
219 Indeno[1,2,3-cd]pyrene	276	16.489	16.489	0.0	91	300270	42.3	
220 Dibenz(a,h)anthracene	278	16.494	16.494	0.0	54	260390	42.7	
221 Benzo[g,h,i]perylene	276	16.825	16.825	0.0	90	248593	43.8	
S 78 3-Methylphenol	1				0		31.3	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0567.D

Injection Date: 13-Sep-2013 01:42:30

Limit Group: MB - 8270C ICAL

Client ID:

Instrument ID: HP5973U

Lims Batch ID: 138717

Lims Sample ID: 5

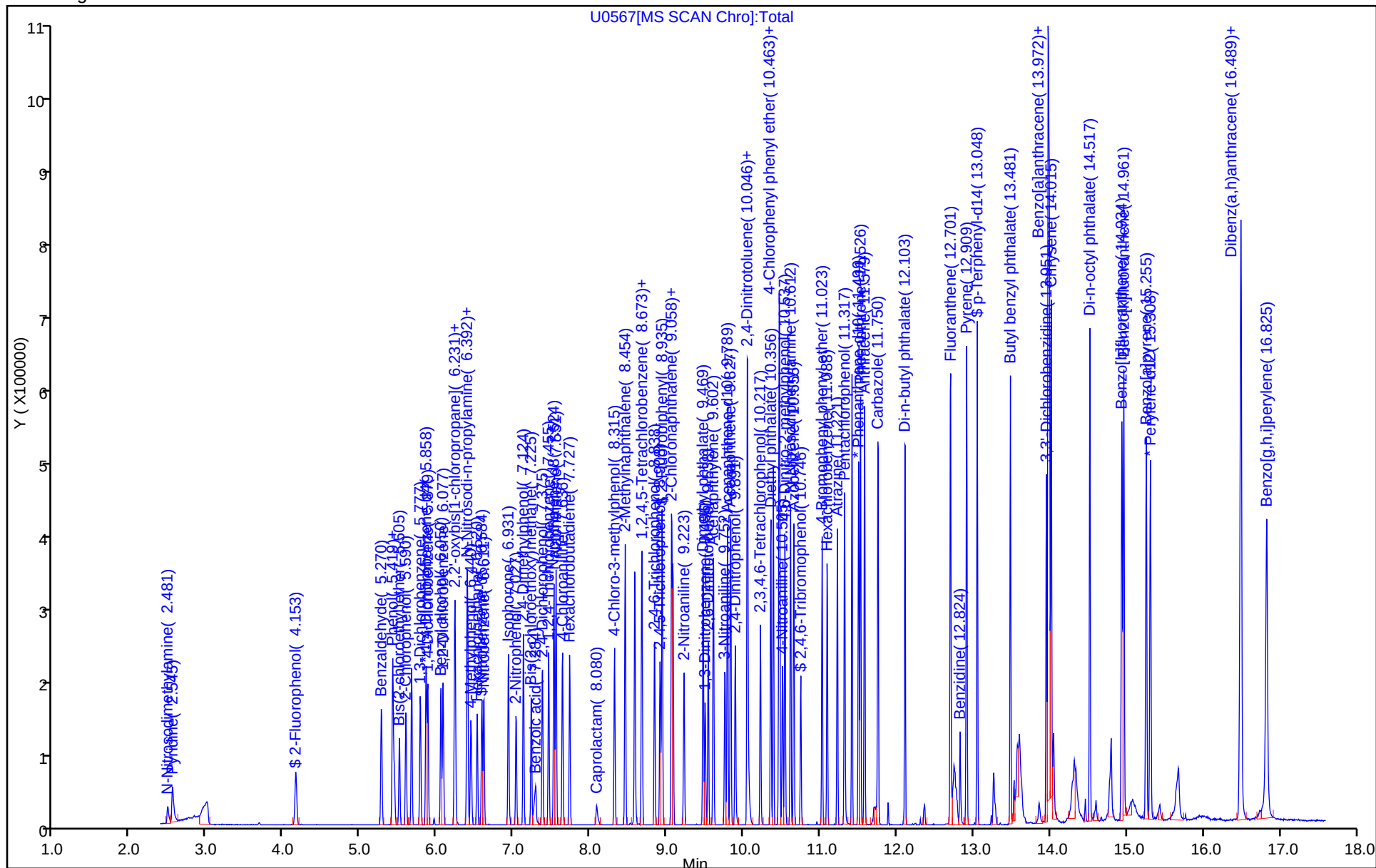
Operator ID: anm

Injection Vol: 1.0 ul

Column Type: RXI-5Sil MS

Column Dia: 0.25 mm

Y Scaling:



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Client Sample ID: Sump 4-090913 MS MS Lab Sample ID: 480-45418-5 MS
Matrix: Water Lab File ID: U0574.D
Analysis Method: 8270C Date Collected: 09/09/2013 10:05
Extract. Method: 3510C Date Extracted: 09/11/2013 07:08
Sample wt/vol: 1061(mL) Date Analyzed: 09/13/2013 04:30
Con. Extract Vol.: 1(mL) Dilution Factor: 1
Injection Volume: 1(uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 138717 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-47-8	4-Chloroaniline	39.2		4.7	0.56
91-20-3	Naphthalene	37.1		4.7	0.72

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	83		46-120
321-60-8	2-Fluorobiphenyl	83		48-120
1718-51-0	p-Terphenyl-d14	35	X	67-150

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0574.D
 Lims ID: 480-45418-A-5-A MS Client ID: Sump 4-090913 MS
 Inject. Date: 13-Sep-2013 04:30:30 Dil. Factor: 1.0000
 Sample Type: MS
 Sample ID: 480-0025167-012
 Misc. Info.:
 Operator: anm Instrument ID: HP5973U
 Injection Vol: 1.0 ul ALS Bottle#: 43
 Lims Batch ID: 138717 Lims Sample ID: 12
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U-8270.m
 Last Update: 13-Sep-2013 05:56:15 Calib Date: 31-Aug-2013 05:59:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973U\20130830-24838.b\U0334.D
 Limit Group: MB - 8270C ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: RXI-5Sil MS Column Dia: 0.25 mm
 Process Host: XAWRK040

First Level Reviewer: rimmera

Date: 13-Sep-2013 05:55:33

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.857	5.858	-0.001	94	41273	40.0	
* 2 Naphthalene-d8	136	7.524	7.524	0.0	99	161852	40.0	
* 3 Acenaphthene-d10	164	9.789	9.790	-0.001	99	103301	40.0	
* 4 Phenanthrene-d10	188	11.499	11.499	0.0	99	177916	40.0	
* 5 Chrysene-d12	240	13.988	13.994	-0.006	80	235855	40.0	
* 6 Perylene-d12	264	15.308	15.308	0.0	84	256970	40.0	
\$ 11 Nitrobenzene-d5	82	6.584	6.584	0.0	89	59556	41.3	
\$ 12 2-Fluorobiphenyl	172	8.935	8.935	0.0	94	138299	41.4	
\$ 14 p-Terphenyl-d14	244	13.048	13.048	0.0	96	79166	17.7	
121 Naphthalene	128	7.551	7.551	0.0	96	159099	39.3	
123 4-Chloroaniline	127	7.636	7.637	-0.001	83	70186	41.5	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0574.D

Injection Date: 13-Sep-2013 04:30:30

Limit Group: MB - 8270C ICAL

Client ID: Sump 4-090913 MS

Instrument ID: HP5973U

Lims Batch ID: 138717

Lims Sample ID: 12

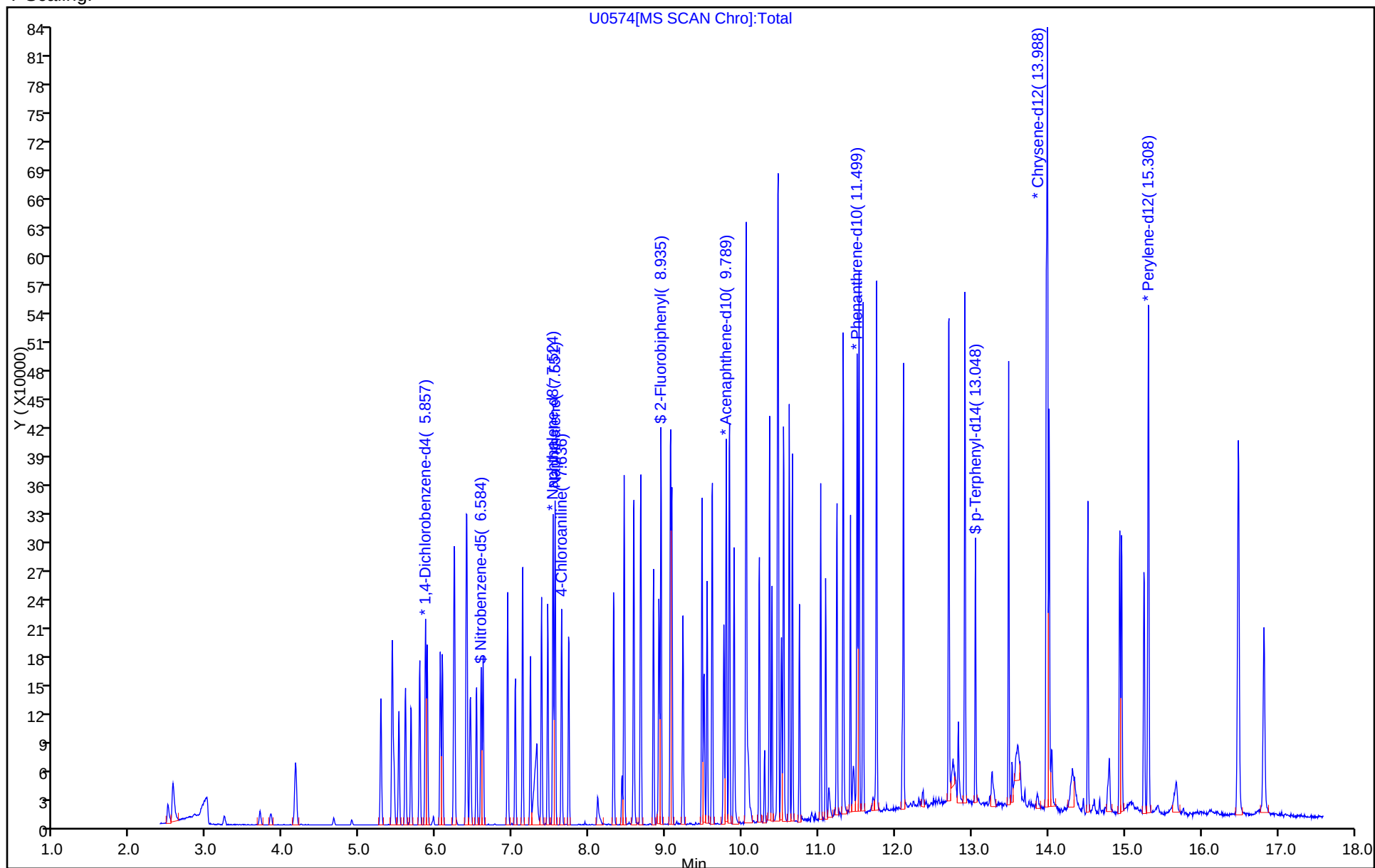
Operator ID: anm

Injection Vol: 1.0 ul

Column Type: RXI-5Sil MS

Column Dia: 0.25 mm

Y Scaling:



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Client Sample ID: Sump 4-090913 MSD MSD Lab Sample ID: 480-45418-5 MSD
Matrix: Water Lab File ID: U0575.D
Analysis Method: 8270C Date Collected: 09/09/2013 10:05
Extract. Method: 3510C Date Extracted: 09/11/2013 07:08
Sample wt/vol: 1058(mL) Date Analyzed: 09/13/2013 04:53
Con. Extract Vol.: 1(mL) Dilution Factor: 1
Injection Volume: 1(uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 138717 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-47-8	4-Chloroaniline	36.6		4.7	0.56
91-20-3	Naphthalene	36.1		4.7	0.72

CAS NO.	SURROGATE	%REC	Q	LIMITS
4165-60-0	Nitrobenzene-d5	78		46-120
321-60-8	2-Fluorobiphenyl	77		48-120
1718-51-0	p-Terphenyl-d14	35	X	67-150

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0575.D
 Lims ID: 480-45418-A-5-B MSD Client ID: Sump 4-090913 MSD
 Inject. Date: 13-Sep-2013 04:53:30 Dil. Factor: 1.0000
 Sample Type: MSD
 Sample ID: 480-0025167-013
 Misc. Info.:
 Operator: anm Instrument ID: HP5973U
 Injection Vol: 1.0 ul ALS Bottle#: 44
 Lims Batch ID: 138717 Lims Sample ID: 13
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U-8270.m
 Last Update: 13-Sep-2013 05:55:58 Calib Date: 31-Aug-2013 05:59:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973U\20130830-24838.b\U0334.D
 Limit Group: MB - 8270C ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: RXI-5Sil MS Column Dia: 0.25 mm
 Process Host: XAWRK040

First Level Reviewer: rimmera

Date: 13-Sep-2013 05:55:58

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	5.858	5.858	0.0	95	41032	40.0	
* 2 Naphthalene-d8	136	7.524	7.524	0.0	99	162596	40.0	
* 3 Acenaphthene-d10	164	9.789	9.790	-0.001	97	104114	40.0	
* 4 Phenanthrene-d10	188	11.499	11.499	0.0	99	179290	40.0	
* 5 Chrysene-d12	240	13.988	13.994	-0.006	80	240367	40.0	
* 6 Perylene-d12	264	15.308	15.308	0.0	84	261739	40.0	
\$ 11 Nitrobenzene-d5	82	6.584	6.584	0.0	90	56719	39.2	
\$ 12 2-Fluorobiphenyl	172	8.935	8.935	0.0	94	130038	38.6	
\$ 14 p-Terphenyl-d14	244	13.048	13.048	0.0	95	80041	17.6	
121 Naphthalene	128	7.551	7.551	0.0	96	155319	38.2	
123 4-Chloroaniline	127	7.636	7.637	-0.001	83	65811	38.8	

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5973U\20130912-25167.b\U0575.D

Injection Date: 13-Sep-2013 04:53:30

Limit Group: MB - 8270C ICAL

Client ID: Sump 4-090913 MSD

Instrument ID: HP5973U

Lims Batch ID: 138717

Lims Sample ID: 13

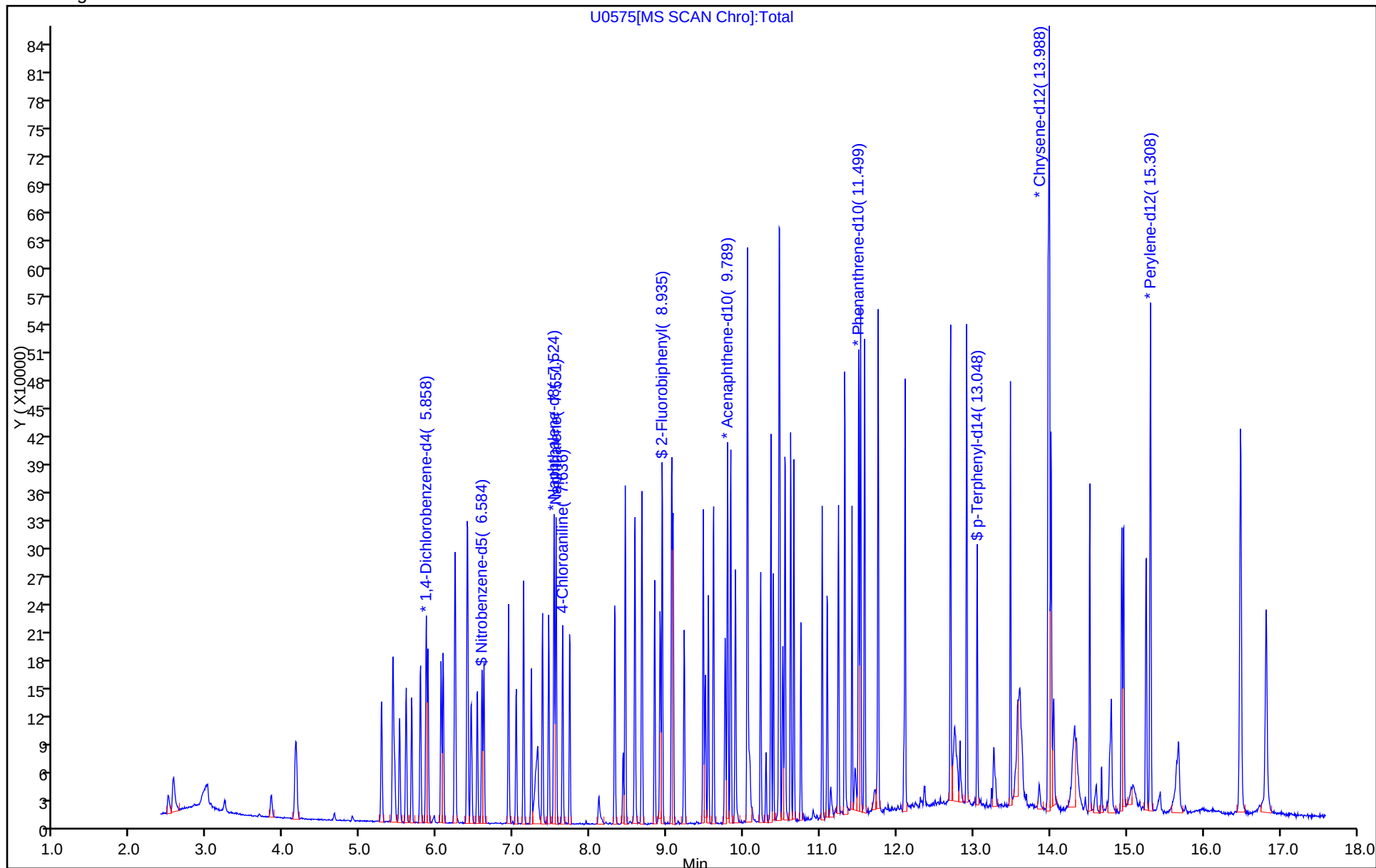
Operator ID: anm

Injection Vol: 1.0 ul

Column Type: RXI-5Sil MS

Column Dia: 0.25 mm

Y Scaling:



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-45418-1

SDG No.: _____

Instrument ID: HP5973UStart Date: 08/12/2013 09:38Analysis Batch Number: 133479End Date: 08/12/2013 21:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTTP 480-133479/2		08/12/2013 09:38	1	U9886.D	RXI-5Sil MS 0.25 (mm)
IC 480-133479/3		08/12/2013 11:22	1	U9891.D	RXI-5Sil MS 0.25 (mm)
IC 480-133479/4		08/12/2013 11:50	1	U9892.D	RXI-5Sil MS 0.25 (mm)
ICIS 480-133479/5		08/12/2013 12:14	1	U9893.D	RXI-5Sil MS 0.25 (mm)
IC 480-133479/6		08/12/2013 12:38	1	U9894.D	RXI-5Sil MS 0.25 (mm)
IC 480-133479/7		08/12/2013 13:01	1	U9895.D	RXI-5Sil MS 0.25 (mm)
IC 480-133479/8		08/12/2013 13:25	1	U9896.D	RXI-5Sil MS 0.25 (mm)
ICV 480-133479/9		08/12/2013 13:49	1		RXI-5Sil MS 0.25 (mm)
ICVL 480-133479/10		08/12/2013 14:12	1		RXI-5Sil MS 0.25 (mm)
CCVIS 480-133479/11		08/12/2013 14:36	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		08/12/2013 15:00	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		08/12/2013 15:24	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		08/12/2013 15:47	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		08/12/2013 16:11	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		08/12/2013 16:35	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		08/12/2013 16:59	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		08/12/2013 17:23	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		08/12/2013 17:47	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		08/12/2013 18:11	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		08/12/2013 18:35	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		08/12/2013 18:59	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		08/12/2013 19:23	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		08/12/2013 19:47	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		08/12/2013 20:12	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		08/12/2013 20:36	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		08/12/2013 21:00	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		08/12/2013 21:24	1		RXI-5Sil MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-45418-1

SDG No.: _____

Instrument ID: HP5973UStart Date: 09/13/2013 00:39Analysis Batch Number: 138717End Date: 09/13/2013 12:03

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-138717/2		09/13/2013 00:39	1	U0564.D	RXI-5Sil MS 0.25 (mm)
CCVIS 480-138717/3		09/13/2013 00:55	1	U0565.D	RXI-5Sil MS 0.25 (mm)
MB 480-138326/1-A		09/13/2013 01:18	1	U0566.D	RXI-5Sil MS 0.25 (mm)
LCS 480-138326/2-A		09/13/2013 01:42	1	U0567.D	RXI-5Sil MS 0.25 (mm)
ZZZZZ		09/13/2013 02:06	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		09/13/2013 02:30	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		09/13/2013 02:54	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		09/13/2013 03:17	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		09/13/2013 03:41	1		RXI-5Sil MS 0.25 (mm)
480-45418-1	Sump Comp-090913	09/13/2013 04:06	1	U0573.D	RXI-5Sil MS 0.25 (mm)
480-45418-5 MS	Sump 4-090913 MS MS	09/13/2013 04:30	1	U0574.D	RXI-5Sil MS 0.25 (mm)
480-45418-5 MSD	Sump 4-090913 MSD MSD	09/13/2013 04:53	1	U0575.D	RXI-5Sil MS 0.25 (mm)
480-45418-5	Sump 4-090913	09/13/2013 05:17	1	U0576.D	RXI-5Sil MS 0.25 (mm)
480-45418-7	FDUP-090913	09/13/2013 05:41	1	U0577.D	RXI-5Sil MS 0.25 (mm)
480-45418-9	MW-2-090913	09/13/2013 06:05	1	U0578.D	RXI-5Sil MS 0.25 (mm)
ZZZZZ		09/13/2013 06:29	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		09/13/2013 06:53	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		09/13/2013 07:17	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		09/13/2013 07:41	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		09/13/2013 08:04	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		09/13/2013 08:28	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		09/13/2013 08:52	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		09/13/2013 09:16	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		09/13/2013 09:40	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		09/13/2013 10:04	5		RXI-5Sil MS 0.25 (mm)
ZZZZZ		09/13/2013 10:27	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		09/13/2013 10:52	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		09/13/2013 11:16	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		09/13/2013 11:40	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		09/13/2013 12:03	1		RXI-5Sil MS 0.25 (mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Batch Number: 138326 Batch Start Date: 09/11/13 07:08 Batch Analyst: Evers, David LBatch Method: 3510C Batch End Date: 09/11/13 16:11

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	GrossWeight	TareWeight	InitialAmount	FinalAmount	FirstAdjustpH
MB 480-138326/1		3510C, 8270C		7 SU			1000 mL	1 mL	<2 SU
LCS 480-138326/2		3510C, 8270C		7 SU			1000 mL	1 mL	<2 SU
480-45418-A-5 MS	Sump 4-090913 MS	3510C, 8270C	T	6 SU	001564.9 g	000503.9 g	1061 mL	1 mL	<2 SU
480-45418-A-5 MSD	Sump 4-090913 MSD	3510C, 8270C	T	6 SU	001561.7 g	000503.7 g	1058 mL	1 mL	<2 SU
480-45418-A-1	Sump Comp-090913	3510C, 8270C	T	6 SU	001549.9 g	000503.0 g	1046.9 mL	1 mL	<2 SU
480-45418-A-5	Sump 4-090913	3510C, 8270C	T	6 SU	001558.7 g	000500.5 g	1058.2 mL	1 mL	<2 SU
480-45418-B-7	FDUP-090913	3510C, 8270C	T	6 SU	001557.0 g	000499.9 g	1057.1 mL	1 mL	<2 SU
480-45418-A-9	MW-2-090913	3510C, 8270C	T	6 SU	001205.4 g	000501.9 g	703.5 mL	1 mL	<2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	SecondAdjustpH	O_8270full#1 00041	O_8270full#2 00043	O_8270surr 00006	O_BenzAcidLCS 00026	
MB 480-138326/1		3510C, 8270C		>11 SU			1 mL		
LCS 480-138326/2		3510C, 8270C		>11 SU	1 mL	1 mL	1 mL	1 mL	
480-45418-A-5 MS	Sump 4-090913 MS	3510C, 8270C	T	>11 SU	1 mL	1 mL	1 mL	1 mL	
480-45418-A-5 MSD	Sump 4-090913 MSD	3510C, 8270C	T	>11 SU	1 mL	1 mL	1 mL	1 mL	
480-45418-A-1	Sump Comp-090913	3510C, 8270C	T	>11 SU			1 mL		
480-45418-A-5	Sump 4-090913	3510C, 8270C	T	>11 SU			1 mL		
480-45418-B-7	FDUP-090913	3510C, 8270C	T	>11 SU			1 mL		
480-45418-A-9	MW-2-090913	3510C, 8270C	T	>11 SU			1 mL		

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Batch Number: 138326 Batch Start Date: 09/11/13 07:08 Batch Analyst: Evers, David LBatch Method: 3510C Batch End Date: 09/11/13 16:11

Batch Notes	
Acid used for pH adjustment	1:1 Sulfuric
Acid used for pH adjust Lot #	2306788
Balance ID	14552245
Base used for pH adjustment	Sodium Hydroxide
Base used for pH adjust Lot #	HC273101
Person's name who did the concentration	DLE MZ
Na2SO4 Lot Number	27863003
Prep Solvent Lot #	0000039454
Prep Solvent Name	MeCl2
Prep Solvent Volume Used	360 mL
Person's name who did the prep	DLE MZ
Person's name who witnessed reagent drop	DLE
Analyst who added reagent	DLE
Sufficient volume for MS/MSD?	YES

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-45418-1

SDG No.: _____

Project: 30130 - Alltift Annual GW Sampling

Client Sample ID	Lab Sample ID
<u>Sump Comp-090913</u>	<u>480-45418-1</u>
<u>Sump 4-090913</u>	<u>480-45418-5</u>
<u>MW-2-090913</u>	<u>480-45418-6</u>
<u>FDUP-090913</u>	<u>480-45418-7</u>
<u>EQUIPMENT BLANK</u>	<u>480-45418-10</u>

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: Sump Comp-090913 Lab Sample ID: 480-45418-1

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG ID.: _____

Matrix: Water Date Sampled: 09/09/2013 12:00

Reporting Basis: WET Date Received: 09/09/2013 16:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-47-3	Chromium	0.011	0.0040	0.0010	mg/L			1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-89-6	Iron	13.7	0.050	0.019	mg/L			1	6010B
7439-96-5	Manganese	3.2	0.0030	0.00040	mg/L			1	6010B
7440-36-0	Antimony	0.83	1.0	0.15	ug/L	J		1	6020
7440-38-2	Arsenic	30.0	1.0	0.078	ug/L			1	6020
7440-43-9	Cadmium	0.22	0.50	0.071	ug/L	J		1	6020
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: Sump 4-090913 Lab Sample ID: 480-45418-5
 Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG ID.: _____
 Matrix: Water Date Sampled: 09/09/2013 10:05
 Reporting Basis: WET Date Received: 09/09/2013 16:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-47-3	Chromium	0.0035	0.0040	0.0010	mg/L	J		1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-89-6	Iron	10.9	0.050	0.019	mg/L			1	6010B
7439-96-5	Manganese	3.4	0.0030	0.00040	mg/L			1	6010B
7440-36-0	Antimony	0.51	1.0	0.15	ug/L	J		1	6020
7440-38-2	Arsenic	11.7	1.0	0.078	ug/L			1	6020
7440-43-9	Cadmium	0.078	0.50	0.071	ug/L	J		1	6020
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-2-090913 Lab Sample ID: 480-45418-6
 Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG ID.: _____
 Matrix: Water Date Sampled: 09/09/2013 08:52
 Reporting Basis: WET Date Received: 09/09/2013 16:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-47-3	Chromium	0.0031	0.0040	0.0010	mg/L	J		1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-89-6	Iron	2.3	0.050	0.019	mg/L			1	6010B
7439-96-5	Manganese	0.58	0.0030	0.00040	mg/L			1	6010B
7440-36-0	Antimony	0.33	1.0	0.15	ug/L	J		1	6020
7440-38-2	Arsenic	4.4	1.0	0.078	ug/L			1	6020
7440-43-9	Cadmium	0.10	0.50	0.071	ug/L	J		1	6020
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: FDUP-090913 Lab Sample ID: 480-45418-7
 Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG ID.: _____
 Matrix: Water Date Sampled: 09/09/2013 10:15
 Reporting Basis: WET Date Received: 09/09/2013 16:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-47-3	Chromium	0.0032	0.0040	0.0010	mg/L	J		1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-89-6	Iron	10.8	0.050	0.019	mg/L			1	6010B
7439-96-5	Manganese	3.4	0.0030	0.00040	mg/L			1	6010B
7440-36-0	Antimony	0.55	1.0	0.15	ug/L	J		1	6020
7440-38-2	Arsenic	12.6	1.0	0.078	ug/L			1	6020
7440-43-9	Cadmium	0.072	0.50	0.071	ug/L	J		1	6020
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-45418-10

Lab Name: TestAmerica Buffalo

Job No.: 480-45418-1

SDG ID.:

Matrix: Water

Date Sampled: 09/09/2013 12:30

Reporting Basis: WET

Date Received: 09/09/2013 16:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010B
7439-92-1	Lead	ND	0.0050	0.0030	mg/L			1	6010B
7439-89-6	Iron	0.024	0.050	0.019	mg/L	J		1	6010B
7439-96-5	Manganese	0.0037	0.0030	0.00040	mg/L			1	6010B
7440-36-0	Antimony	ND	1.0	0.15	ug/L			1	6020
7440-38-2	Arsenic	0.12	1.0	0.078	ug/L	J		1	6020
7440-43-9	Cadmium	ND	0.50	0.071	ug/L			1	6020
7439-97-6	Mercury	ND	0.00020	0.00012	mg/L			1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

ICV Source: MEI_04_ICV_00206 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00124

Analyte	ICV 480-138593/5 09/11/2013 18:13				CCV 480-138593/12 09/12/2013 02:43				CCV 480-138593/17 09/12/2013 03:17			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Chromium	0.373		0.375	99	0.499		0.500	100	0.498		0.500	100
Iron	18.10		18.8	97	23.99		25.0	96	24.04		25.0	96
Lead	0.365		0.375	97	0.497		0.500	99	0.495		0.500	99
Manganese	0.372		0.375	99	0.506		0.500	101	0.505		0.500	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

ICV Source: MEI_04_ICV_00206 Concentration Units: mg/L

CCV Source: MEI_09_CCV_00124

Analyte	CCV 480-138593/29 09/12/2013 03:53				CCV 480-138593/41 09/12/2013 04:27							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Chromium	0.496		0.500	99	0.495		0.500	99				
Iron	23.92		25.0	96	24.00		25.0	96				
Lead	0.495		0.500	99	0.495		0.500	99				
Manganese	0.503		0.500	101	0.503		0.500	101				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

ICV Source: MEM_04_ICV_00075 Concentration Units: ug/L

CCV Source: MEM_02_STD2_00092

Analyte	ICV 480-138948/5 09/12/2013 13:50				CCV 480-138948/10 09/12/2013 14:20				CCV 480-138948/21 09/12/2013 15:23			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	26.46		25.0	106	25.49		25.0	102	24.84		25.0	99
Arsenic	25.52		25.0	102	25.34		25.0	101	25.54		25.0	102
Cadmium	24.80		25.0	99	24.87		25.0	99	24.87		25.0	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

ICV Source: MEM_04_ICV_00075 Concentration Units: ug/L

CCV Source: MEM_02_STD2_00092

Analyte	CCV 480-138948/33 09/12/2013 16:37											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	25.10		25.0	100								
Arsenic	24.59		25.0	98								
Cadmium	25.20		25.0	101								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

ICV Source: MEH_HG2_WKG_00448 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00448

Analyte	ICV 480-138565/1 09/11/2013 14:12				CCV 480-138565/4 09/11/2013 14:17				CCV 480-138565/16 09/11/2013 14:38			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00302		0.00300	101	0.00203		0.00200	102	0.00197		0.00200	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

ICV Source: MEH_HG2_WKG_00448 Concentration Units: mg/L

CCV Source: MEH_HG2_WKG_00448

Analyte	CCV 480-138565/28 09/11/2013 14:59											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00205		0.00200	103								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Method: 6010B Instrument ID: ICAP1
Lab Sample ID: CRI 480-138593/7 Concentration Units: mg/L
CRQL Check Standard Source: MEI_06_CRI_00065

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Chromium	0.00400	0.00425		106	50-150
Lead	0.00500	0.00309	J	62	50-150
Iron	0.0500	0.0524		105	50-150
Manganese	0.00300	0.00305		102	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Method: 6020 Instrument ID: ELAN
Lab Sample ID: CRI 480-138948/7 Concentration Units: ug/L
CRQL Check Standard Source: MEM_06_CRI_00081

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Antimony	1.00	1.18		118	50-150
Arsenic	1.00	1.03		103	50-150
Cadmium	0.500	0.489	J	98	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Method: 7470A Instrument ID: LEEMAN2
Lab Sample ID: CRA 480-138565/3 Concentration Units: mg/L
CRQL Check Standard Source: MEH_HG2_WKG_00448

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.000200	0.000146	J	73	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Concentration Units: mg/L

Analyte	RL	ICB 480-138593/6 09/11/2013 18:16		CCB 480-138593/13 09/12/2013 02:46		CCB 480-138593/18 09/12/2013 03:20		CCB 480-138593/30 09/12/2013 03:55	
		Found	C	Found	C	Found	C	Found	C
Chromium	0.0040	ND		ND		ND		ND	
Iron	0.050	ND		ND		ND		ND	
Lead	0.0050	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		ND		0.000400	J

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Concentration Units: mg/L

Analyte	RL	CCB 480-138593/42 09/12/2013 04:30							
		Found	C	Found	C	Found	C	Found	C
Chromium	0.0040	ND							
Iron	0.050	ND							
Lead	0.0050	ND							
Manganese	0.0030	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 480-138948/6 09/12/2013 13:56		CCB 480-138948/11 09/12/2013 14:27		CCB 480-138948/22 09/12/2013 15:29		CCB 480-138948/34 09/12/2013 16:44	
		Found	C	Found	C	Found	C	Found	C
Antimony	1.0	ND		ND		ND		ND	
Arsenic	1.0	ND		ND		ND		ND	
Cadmium	0.50	ND		ND		ND		0.0568	J

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Concentration Units: mg/L

Analyte	RL	ICB 480-138565/2 09/11/2013 14:14		CCB 480-138565/5 09/11/2013 14:19		CCB 480-138565/17 09/11/2013 14:40		CCB 480-138565/29 09/11/2013 15:01	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Concentration Units: mg/L Lab Sample ID: MB 480-138328/1-A
Instrument Code: ICAP1 Batch No.: 138593

CAS No.	Analyte	Concentration	C	Q	Method
7440-47-3	Chromium	ND			6010B
7439-92-1	Lead	ND			6010B
7439-89-6	Iron	ND			6010B
7439-96-5	Manganese	ND			6010B

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Concentration Units: ug/L Lab Sample ID: MB 480-138383/1-A

Instrument Code: ELAN Batch No.: 138948

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	ND			6020
7440-38-2	Arsenic	ND			6020
7440-43-9	Cadmium	ND			6020

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Concentration Units: mg/L Lab Sample ID: MB 480-138357/1-A
Instrument Code: LEEMAN2 Batch No.: 138565

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG No.: _____
 Lab Sample ID: ICSA 480-138593/8 Instrument ID: ICAP1
 Lab File ID: _____ ICS Source: MEI_07_ICSA_00052
 Concentration Units: mg/L

Analyte	True Solution A	Found	
		Solution A	Percent Recovery
Chromium		0.0010	
Iron	200	194	97
Lead		-0.0085	
Manganese		0.0012	
Manganese		0.0013	
<i>Aluminum</i>	<i>501</i>	<i>530</i>	<i>106</i>
<i>Antimony</i>		<i>-0.0019</i>	
<i>Arsenic</i>		<i>0.0033</i>	
<i>Barium</i>		<i>0.0019</i>	
<i>Beryllium</i>		<i>-0.0001</i>	
<i>Boron</i>		<i>-0.0001</i>	
<i>Cadmium</i>		<i>0.0011</i>	
<i>Calcium</i>	<i>500</i>	<i>484</i>	<i>97</i>
<i>Cobalt</i>		<i>-0.0010</i>	
<i>Copper</i>		<i>0.0022</i>	
<i>Lithium</i>		<i>0.0036</i>	
<i>Magnesium</i>	<i>500</i>	<i>516</i>	<i>103</i>
<i>Molybdenum</i>		<i>-0.0009</i>	
<i>Nickel</i>		<i>0.0005</i>	
<i>Potassium</i>		<i>-0.0127</i>	
<i>Selenium</i>		<i>-0.0116</i>	
<i>Silicon</i>		<i>0.0396</i>	
<i>Silver</i>		<i>0.0009</i>	
<i>Sodium</i>		<i>0.0636</i>	
<i>Strontium</i>		<i>0.0049</i>	
<i>Sulfur</i>		<i>-0.122</i>	
<i>Thallium</i>		<i>-0.0027</i>	
<i>Tin</i>		<i>0.0012</i>	
<i>Titanium</i>		<i>0.0036</i>	
<i>Vanadium</i>		<i>-0.0003</i>	
<i>Zinc</i>		<i>0.0038</i>	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG No.: _____
 Lab Sample ID: ICSAB 480-138593/9 Instrument ID: ICAP1
 Lab File ID: _____ ICS Source: MEI_08_ICSAB_00070
 Concentration Units: mg/L

Analyte	True	Found	Percent Recovery
	Solution AB	Solution AB	
Chromium	0.500	0.487	97
Iron	100	95.1	95
Lead	0.0500	0.0428	86
Manganese	0.500	0.473	95
Manganese	0.500	0.508	102
<i>Aluminum</i>	<i>501</i>	<i>519</i>	<i>104</i>
<i>Antimony</i>	<i>0.600</i>	<i>0.604</i>	<i>101</i>
<i>Arsenic</i>	<i>0.100</i>	<i>0.113</i>	<i>113</i>
<i>Barium</i>	<i>0.500</i>	<i>0.515</i>	<i>103</i>
<i>Beryllium</i>	<i>0.500</i>	<i>0.513</i>	<i>103</i>
<i>Boron</i>		<i>0.0049</i>	
<i>Cadmium</i>	<i>1.00</i>	<i>1.03</i>	<i>103</i>
<i>Calcium</i>	<i>501</i>	<i>484</i>	<i>97</i>
<i>Cobalt</i>	<i>0.500</i>	<i>0.505</i>	<i>101</i>
<i>Copper</i>	<i>0.500</i>	<i>0.542</i>	<i>108</i>
<i>Lithium</i>	<i>0.500</i>	<i>0.538</i>	<i>108</i>
<i>Magnesium</i>	<i>501</i>	<i>520</i>	<i>104</i>
<i>Molybdenum</i>		<i>-0.0003</i>	
<i>Nickel</i>	<i>1.00</i>	<i>0.977</i>	<i>98</i>
<i>Potassium</i>		<i>0.0488</i>	
<i>Selenium</i>	<i>0.0500</i>	<i>0.0447</i>	<i>89</i>
<i>Silicon</i>	<i>1.00</i>	<i>1.10</i>	<i>110</i>
<i>Silver</i>	<i>0.200</i>	<i>0.221</i>	<i>111</i>
<i>Sodium</i>		<i>0.0617</i>	
<i>Strontium</i>	<i>0.500</i>	<i>0.514</i>	<i>103</i>
<i>Thallium</i>	<i>0.100</i>	<i>0.0972</i>	<i>97</i>
<i>Tin</i>		<i>0.0011</i>	
<i>Titanium</i>		<i>0.0032</i>	
<i>Vanadium</i>	<i>0.500</i>	<i>0.498</i>	<i>100</i>
<i>Zinc</i>	<i>1.00</i>	<i>0.959</i>	<i>96</i>

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG No.: _____
 Lab Sample ID: ICSA 480-138948/8 Instrument ID: ELAN
 Lab File ID: e091213A1a.rep ICS Source: MEM_07_ICSA_00062
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		0.303	
Arsenic		0.211	
Cadmium		0.453	
<i>Barium</i>		3.65	
<i>Beryllium</i>		-0.0045	
<i>Chromium</i>		0.657	
<i>Cobalt</i>		0.769	
<i>Copper</i>		1.54	
<i>Lead</i>		0.136	
<i>Lithium</i>		-0.0012	
<i>Manganese</i>		1.13	
<i>Molybdenum</i>	1000	926	93
<i>Nickel</i>		2.87	
<i>Selenium</i>		-0.452	
<i>Silver</i>		0.0296	
<i>Strontium</i>		0.349	
<i>Thallium</i>		0.0030	
<i>Tin</i>		0.0675	
<i>Vanadium</i>		-0.0005	
<i>Zinc</i>		4.27	

Calculations are performed before rounding to avoid round-off errors in calculated results.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG No.: _____
 Lab Sample ID: ICSAB 480-138948/9 Instrument ID: ELAN
 Lab File ID: e091213A1a.rep ICS Source: MEM_08_ICSAB_00067
 Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Antimony		0.564	
Arsenic	10.0	9.74	97
Cadmium	5.00	5.26	105
<i>Barium</i>		3.52	
<i>Beryllium</i>		-0.0091	
<i>Chromium</i>	10.0	10.7	107
<i>Cobalt</i>	20.0	18.9	95
<i>Copper</i>	10.0	10.4	104
<i>Lead</i>		0.191	
<i>Lithium</i>		0.0475	
<i>Manganese</i>	11.0	11.0	100
<i>Molybdenum</i>	1000	930	93
<i>Nickel</i>	20.0	21.2	106
<i>Selenium</i>	10.0	8.85	88
<i>Silver</i>	10.0	9.77	98
<i>Strontium</i>		0.351	
<i>Thallium</i>		0.0743	
<i>Tin</i>		0.0648	
<i>Vanadium</i>	20.0	20.9	104
<i>Zinc</i>	12.5	13.3	106

Calculations are performed before rounding to avoid round-off errors in calculated results.

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: Sump 4-090913 MS MS Lab ID: 480-45418-5 MS
 Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG No.: _____
 Matrix: Water Concentration Units: mg/L
 % Solids: _____

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Chromium	0.212	0.0035	J	0.200	104	75-125	6010B
Lead	0.209	ND		0.200	104	75-125	6010B
Iron	22.83	10.9		10.0	119	75-125	6010B
Manganese	3.80	3.4		0.200	219	75-125	4 6010B
Mercury	0.00597	ND		0.00667	89	75-125	7470A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: Sump 4-090913 MS MS Lab ID: 480-45418-5 MS
Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
SDG No.: _____
Matrix: Water Concentration Units: ug/L
% Solids: _____

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	23.15	0.51 J	20.0	113	75-125		6020
Arsenic	33.96	11.7	20.0	111	75-125		6020
Cadmium	20.23	0.078 J	20.0	101	75-125		6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: Sump 4-090913 MSD MSD Lab ID: 480-45418-5 MSD
 Lab Name: TestAmerica Buffalo Job No.: 480-45418-1
 SDG No.: _____
 Matrix: Water Concentration Units: mg/L
 % Solids: _____

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Chromium	0.206	0.200	101	75-125	3	20		6010B
Lead	0.206	0.200	103	75-125	1	20		6010B
Iron	21.24	10.0	103	75-125	7	20		6010B
Manganese	3.72	0.200	180	75-125	2	20	4	6010B
Mercury	0.00608	0.00667	91	75-125	2	20		7470A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: Sump 4-090913 MSD MSD

Lab ID: 480-45418-5 MSD

Lab Name: TestAmerica Buffalo

Job No.: 480-45418-1

SDG No.: _____

Matrix: Water

Concentration Units: ug/L

% Solids: _____

Analyte	(SDR) C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	23.02	20.0	113	75-125	1	20		6020
Arsenic	33.19	20.0	107	75-125	2	20		6020
Cadmium	20.34	20.0	101	75-125	1	20		6020

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: Sump 4-090913 PDS

Lab ID: 480-45418-5 PDS

Lab Name: TestAmerica Buffalo

Job No.: 480-45418-1

SDG No.: _____

Matrix: Water

Concentration Units: mg/L

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Chromium	0.205	0.0035	J	0.200	101	75-125	6010B
Lead	0.208	ND		0.200	104	75-125	6010B
Iron	20.70	10.9		10.0	98	75-125	6010B
Manganese	3.45	3.4		0.200	NC	75-125	6010B

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: Sump 4-090913 PDS

Lab ID: 480-45418-5 PDS

Lab Name: TestAmerica Buffalo

Job No.: 480-45418-1

SDG No.: _____

Matrix: Water

Concentration Units: ug/L

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Antimony	22.44	0.51	J 20.0	110	75-125		6020
Arsenic	34.03	11.7	20.0	112	75-125		6020
Cadmium	20.54	0.078	J 20.0	102	75-125		6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-138328/2-A

Lab Name: TestAmerica Buffalo

Job No.: 480-45418-1

Sample Matrix: Water

LCS Source: MED_01_W1_00015

Analyte	Water (mg/L)							
	True	Found	C	%R	Limits		Q	Method
Chromium	0.200	0.202		101	80	120		6010B
Lead	0.200	0.194		97	80	120		6010B
Iron	10.0	9.84		98	80	120		6010B
Manganese	0.200	0.200		100	80	120		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-138383/2-A

Lab Name: TestAmerica Buffalo

Job No.: 480-45418-1

Sample Matrix: Water

LCS Source: MED_05_MS_00014

Analyte	Water (ug/L)							
	True	Found	C	%R	Limits		Q	Method
Antimony	20.0	21.21		106	80	120		6020
Arsenic	20.0	20.53		103	80	120		6020
Cadmium	20.0	20.07		100	80	120		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 480-138383/3-A

Lab Name: TestAmerica Buffalo

Job No.: 480-45418-1

Sample Matrix: Water

LCS Source: MED_05_MS_00014

Analyte	(SDR) C		Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Antimony	21.24		20.0	106	80-120	0	20		6020
Arsenic	20.44		20.0	102	80-120	0	20		6020
Cadmium	20.20		20.0	101	80-120	1	20		6020

SDR = Spike Duplicate Results

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-138357/2-A

Lab Name: TestAmerica Buffalo

Job No.: 480-45418-1

Sample Matrix: Water

LCS Source: MEH_HG2_WKG_00448

Analyte	Water (mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00667	0.00647		97	80	120		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-45418-5

SDG No:

Lab Name: TestAmerica Buffalo

Job No: 480-45418-1

Matrix: Water

Concentration Units: mg/L

Analyte	Initial Sample Result (I) C		Serial Dilution Result (S) C		% Difference	Q	Method
Chromium	0.0035	J	ND		NC		6010B
Lead	ND		ND		NC		6010B
Iron	10.9		11.25		3.1		6010B
Manganese	3.4		3.51		4.4		6010B

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-45418-5

SDG No:

Lab Name: TestAmerica Buffalo

Job No: 480-45418-1

Matrix: Water

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C		Serial Dilution Result (S) C		% Difference	Q	Method
Antimony	0.51	J	ND		NC		6020
Arsenic	11.7		12.13		3.5		6020
Cadmium	0.078	J	ND		NC		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-45418-5

SDG No:

Lab Name: TestAmerica Buffalo

Job No: 480-45418-1

Matrix: Water

Concentration Units: mg/L

Analyte	Initial Sample Result (I) C		Serial Dilution Result (S) C		% Difference	Q	Method
Mercury	ND		ND		NC		7470A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-45418-1
SDG Number: _____
Matrix: Water Instrument ID: ICAP1
Method: 6010B MDL Date: 02/23/2012 13:41
Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chromium	267.716	0.004	0.001
Iron	259.940	0.05	0.0193
Lead	220.353	0.005	0.003
Manganese	257.610	0.003	0.0004

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-45418-1
SDG Number: _____
Matrix: Water Instrument ID: ICAP1
Method: 6010B XMDL Date: 02/23/2012 13:51

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chromium	267.716	0.004	0.001
Iron	259.940	0.05	0.0193
Lead	220.353	0.005	0.003
Manganese	257.610	0.003	0.0004

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-45418-1
SDG Number: _____
Matrix: Water Instrument ID: ELAN
Method: 6020 MDL Date: 05/06/2013 12:41
Prep Method: 3020A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Antimony	121	1	0.15
Arsenic	75	1	0.078
Cadmium	111	0.5	0.071

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-45418-1
SDG Number: _____
Matrix: Water Instrument ID: ELAN
Method: 6020 XMDL Date: 02/10/2010 00:00

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Antimony	121	1	0.15
Arsenic	75	1	0.078
Cadmium	111	0.5	0.018

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-45418-1
SDG Number: _____
Matrix: Water Instrument ID: LEEMAN2
Method: 7470A MDL Date: 01/28/2010 00:00
Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury	253.7	0.0002	0.00012

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-45418-1
SDG Number: _____
Matrix: Water Instrument ID: LEEMAN2
Method: 7470A XMDL Date: 01/28/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.00012

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Buffalo Job Number: 480-45418-1

SDG No.: _____

ICP-AES Instrument ID: ICAP1 Date: 05/17/2013

Analyte	Wave Length	Al	As	Co	Cr	Fe	Mo	Ni	Si	Ti	V				
Antimony	206.833				0.017875										
Arsenic	189.042				-0.018613										
Beryllium	313.042									-0.000801	0.000048				
Boron	208.959						0.035582								
Cadmium	228.802		0.003178			0.000002		-0.000080							
Cobalt	228.616						-0.001011			0.001848					
Copper	324.754									-0.000426	-0.000325				
Lead	220.353	-0.000018				0.000015	-0.001722		0.000411	-0.000571					
Selenium	196.090	-0.000035													
Silver	328.068										0.000102				
Thallium	190.856			003615						-0.000573	0.000614				
Titanium	334.904				0.000153										
Vanadium	292.402					0.000026	-0.005071			0.000717					
Zinc	206.200				-0.001820										

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo

Job No: 480-45418-1

SDG No.: _____

Instrument ID: ICAP1

Date: 08/15/2013 12:05

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Chromium	15	40	6010B
Lead	15	120	6010B
Iron	15	800	6010B
Manganese	15	100	6010B

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo

Job No: 480-45418-1

SDG No.: _____

Instrument ID: ELAN

Date: 08/13/2013 09:26

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Antimony	1	1000	6020
Arsenic	1	1000	6020
Cadmium	1	1000	6020

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Buffalo

Job No: 480-45418-1

SDG No.: _____

Instrument ID: LEEMAN2

Date: 02/12/2013 11:25

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury	10	10	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-138328/1-A	09/11/2013 08:40	138328		50	50
LCS 480-138328/2-A	09/11/2013 08:40	138328		50	50
480-45418-1	09/11/2013 08:40	138328		50	50
480-45418-5	09/11/2013 08:40	138328		50	50
480-45418-5 MS	09/11/2013 08:40	138328		50	50
480-45418-5 MSD	09/11/2013 08:40	138328		50	50
480-45418-6	09/11/2013 08:40	138328		50	50
480-45418-7	09/11/2013 08:40	138328		50	50
480-45418-10	09/11/2013 08:40	138328		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Prep Method: 3020A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-138383/1-A	09/11/2013 10:20	138383		50	50
LCS 480-138383/2-A	09/11/2013 10:20	138383		50	50
LCSD 480-138383/3-A	09/11/2013 10:20	138383		50	50
480-45418-1	09/11/2013 10:20	138383		50	50
480-45418-5	09/11/2013 10:20	138383		50	50
480-45418-5 MS	09/11/2013 10:20	138383		50	50
480-45418-5 MSD	09/11/2013 10:20	138383		50	50
480-45418-6	09/11/2013 10:20	138383		50	50
480-45418-7	09/11/2013 10:20	138383		50	50
480-45418-10	09/11/2013 10:20	138383		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-138357/1-A	09/11/2013 09:00	138357		30	50
LCS 480-138357/2-A	09/11/2013 09:00	138357		30	50
480-45418-1	09/11/2013 09:00	138357		30	50
480-45418-5	09/11/2013 09:00	138357		30	50
480-45418-5 MS	09/11/2013 09:00	138357		30	50
480-45418-5 MSD	09/11/2013 09:00	138357		30	50
480-45418-6	09/11/2013 09:00	138357		30	50
480-45418-7	09/11/2013 09:00	138357		30	50
480-45418-10	09/11/2013 09:00	138357		30	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Instrument ID: ICAP1 Method: 6010B

Start Date: 09/11/2013 18:02 End Date: 09/12/2013 05:04

Lab Sample ID	D / F	T y p e	Time	Analytes															
				C r	F e	M n	P b												
IC 480-138593/1			18:02	X	X	X	X												
IC 480-138593/2			18:05	X	X	X	X												
IC 480-138593/3			18:07	X	X	X	X												
IC 480-138593/4			18:10	X	X	X	X												
ICV 480-138593/5	1		18:13	X	X	X	X												
ICB 480-138593/6	1		18:16	X	X	X	X												
CRI 480-138593/7	1		18:19	X	X	X	X												
ICSA 480-138593/8	1		18:21	X	X	X	X												
ICSAB 480-138593/9	1		18:24	X	X	X	X												
CCV 480-138593/10			18:27																
CCB 480-138593/11			18:30																
CCV 480-138593/12	1		02:43	X	X	X	X												
CCB 480-138593/13	1		02:46	X	X	X	X												
MB 480-138328/1-A	1	T	03:09	X	X	X	X												
LCS 480-138328/2-A	1	T	03:11	X	X	X	X												
ZZZZZZ			03:14																
CCV 480-138593/17	1		03:17	X	X	X	X												
CCB 480-138593/18	1		03:20	X	X	X	X												
ZZZZZZ			03:23																
ZZZZZZ			03:26																
ZZZZZZ			03:29																
ZZZZZZ			03:32																
480-45418-1	1	T	03:35	X	X	X	X												
480-45418-5	1	T	03:38	X	X	X	X												
480-45418-5 SD	5	T	03:41	X	X	X	X												
480-45418-5 PDS	1	T	03:44	X	X	X	X												
480-45418-5 MS	1	T	03:47	X	X	X	X												
480-45418-5 MSD	1	T	03:50	X	X	X	X												
CCV 480-138593/29	1		03:53	X	X	X	X												
CCB 480-138593/30	1		03:55	X	X	X	X												
480-45418-6	1	T	03:58	X	X	X	X												
480-45418-7	1	T	04:01	X	X	X	X												
480-45418-10	1	T	04:04	X	X	X	X												
ZZZZZZ			04:07																
ZZZZZZ			04:10																
ZZZZZZ			04:13																
ZZZZZZ			04:16																
ZZZZZZ			04:18																
ZZZZZZ			04:21																
ZZZZZZ			04:24																
CCV 480-138593/41	1		04:27	X	X	X	X												
CCB 480-138593/42	1		04:30	X	X	X	X												

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Instrument ID: ICAP1 Method: 6010B

Start Date: 09/11/2013 18:02 End Date: 09/12/2013 05:04

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				C r	F e	M n	P b														
ZZZZZZ			04:32																		
ZZZZZZ			04:35																		
ZZZZZZ			04:38																		
CCV 480-138593/46			05:01																		
CCB 480-138593/47			05:04																		

Prep Types

R = Total Recoverable

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Instrument ID: ELAN Method: 6020

Start Date: 09/12/2013 13:25 End Date: 09/12/2013 23:56

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				A s	C d	S b															
ICIS 480-138948/1			13:25	X	X	X															
IC 480-138948/2	1		13:31	X	X	X															
IC 480-138948/3	1		13:36	X	X	X															
IC 480-138948/4	1		13:42	X	X	X															
ICV 480-138948/5	1		13:50	X	X	X															
ICB 480-138948/6	1		13:56	X	X	X															
CRI 480-138948/7	1		14:02	X	X	X															
ICSA 480-138948/8	1		14:07	X	X	X															
ICSAB 480-138948/9	1		14:14	X	X	X															
CCV 480-138948/10	1		14:20	X	X	X															
CCB 480-138948/11	1		14:27	X	X	X															
MB 480-138383/1-A	1	T	14:32	X	X	X															
LCS 480-138383/2-A	1	T	14:38	X	X	X															
LCSD 480-138383/3-A	1	T	14:43	X	X	X															
ZZZZZZ			14:49																		
RINSE 480-138948/16			14:54																		
ZZZZZZ			15:00																		
RINSE 480-138948/18			15:06																		
ZZZZZZ			15:12																		
RINSE 480-138948/20			15:17																		
CCV 480-138948/21	1		15:23	X	X	X															
CCB 480-138948/22	1		15:29	X	X	X															
480-45418-1	1	T	15:35	X	X	X															
480-45418-5	1	T	15:41	X	X	X															
480-45418-5 SD	5	T	15:48	X	X	X															
480-45418-5 PDS	1	T	15:55	X	X	X															
480-45418-5 MS	1	T	16:01	X	X	X															
480-45418-5 MSD	1	T	16:08	X	X	X															
480-45418-6	1	T	16:14	X	X	X															
480-45418-7	1	T	16:20	X	X	X															
480-45418-10	1	T	16:26	X	X	X															
RINSE 480-138948/32			16:32																		
CCV 480-138948/33	1		16:37	X	X	X															
CCB 480-138948/34	1		16:44	X	X	X															
ZZZZZZ			16:49																		
ZZZZZZ			16:55																		
ZZZZZZ			17:00																		
ZZZZZZ			17:06																		
RINSE 480-138948/39			17:11																		
ZZZZZZ			17:17																		
ZZZZZZ			17:23																		
RINSE 480-138948/42			17:30																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Instrument ID: ELAN Method: 6020

Start Date: 09/12/2013 13:25 End Date: 09/12/2013 23:56

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				A s	C d	S b															
ZZZZZZ			17:41																		
CCV 480-138948/44			17:47																		
CCB 480-138948/45			17:53																		
CCV 480-138948/46			23:10																		
CCB 480-138948/47			23:16																		
RINSE 480-138948/48			23:22																		
ZZZZZZ			23:28																		
RINSE 480-138948/50			23:33																		
RINSE 480-138948/51			23:39																		
RINSE 480-138948/52			23:44																		
CCV 480-138948/53			23:50																		
CCB 480-138948/54			23:56																		

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 09/11/2013 14:12 End Date: 09/11/2013 16:58

Lab Sample ID	D / F	T y p e	Time	Analytes															
				H g															
ICV 480-138565/1	1		14:12	X															
ICB 480-138565/2	1		14:14	X															
CRA 480-138565/3	1		14:15	X															
CCV 480-138565/4	1		14:17	X															
CCB 480-138565/5	1		14:19	X															
MB 480-138357/1-A	1	T	14:22	X															
LCS 480-138357/2-A	1	T	14:23	X															
ZZZZZZ			14:25																
ZZZZZZ			14:27																
ZZZZZZ			14:28																
ZZZZZZ			14:30																
480-45418-1	1	T	14:32	X															
480-45418-5	1	T	14:33	X															
480-45418-5 SD	5	T	14:35	X															
480-45418-5 MS	1	T	14:37	X															
CCV 480-138565/16	1		14:38	X															
CCB 480-138565/17	1		14:40	X															
480-45418-5 MSD	1	T	14:43	X															
480-45418-6	1	T	14:44	X															
480-45418-7	1	T	14:46	X															
480-45418-10	1	T	14:48	X															
ZZZZZZ			14:49																
ZZZZZZ			14:51																
ZZZZZZ			14:53																
ZZZZZZ			14:54																
ZZZZZZ			14:56																
ZZZZZZ			14:58																
CCV 480-138565/28	1		14:59	X															
CCB 480-138565/29	1		15:01	X															
ZZZZZZ			15:02																
ZZZZZZ			15:04																
ZZZZZZ			15:06																
ZZZZZZ			15:08																
ZZZZZZ			15:10																
ZZZZZZ			15:11																
ZZZZZZ			15:13																
ZZZZZZ			15:15																
ZZZZZZ			15:16																
ZZZZZZ			15:18																
CCV 480-138565/40			15:20																
CCB 480-138565/41			15:22																
ZZZZZZ			15:24																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 09/11/2013 14:12 End Date: 09/11/2013 16:58

Lab Sample ID	D / F	T y p e	Time	Analytes															
				H g															
ZZZZZZ			15:25																
ZZZZZZ			15:27																
ZZZZZZ			15:29																
ZZZZZZ			15:30																
ZZZZZZ			15:32																
ZZZZZZ			15:34																
ZZZZZZ			15:36																
ZZZZZZ			15:37																
ZZZZZZ			15:39																
CCV 480-138565/52			15:40																
CCB 480-138565/53			15:42																
ZZZZZZ			15:44																
ZZZZZZ			15:46																
ZZZZZZ			15:48																
ZZZZZZ			15:50																
ZZZZZZ			15:52																
ZZZZZZ			15:54																
ZZZZZZ			15:55																
ZZZZZZ			15:57																
ZZZZZZ			15:59																
ZZZZZZ			16:00																
CCV 480-138565/64			16:02																
CCB 480-138565/65			16:04																
ZZZZZZ			16:06																
ZZZZZZ			16:07																
ZZZZZZ			16:09																
ZZZZZZ			16:11																
ZZZZZZ			16:13																
ZZZZZZ			16:14																
ZZZZZZ			16:16																
ZZZZZZ			16:18																
ZZZZZZ			16:20																
ZZZZZZ			16:21																
CCV 480-138565/76			16:23																
CCB 480-138565/77			16:25																
ZZZZZZ			16:27																
ZZZZZZ			16:28																
ZZZZZZ			16:30																
ZZZZZZ			16:32																
ZZZZZZ			16:34																
ZZZZZZ			16:36																
ZZZZZZ			16:37																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Instrument ID: LEEMAN2 Method: 7470A

Start Date: 09/11/2013 14:12 End Date: 09/11/2013 16:58

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				H g																	
ZZZZZZ			16:39																		
ZZZZZZ			16:41																		
ZZZZZZ			16:43																		
CCV 480-138565/88			16:45																		
CCB 480-138565/89			16:46																		
ZZZZZZ			16:48																		
ZZZZZZ			16:50																		
ZZZZZZ			16:52																		
CRA 480-138565/93			16:54																		
CCV 480-138565/94			16:56																		
CCB 480-138565/95			16:58																		

Prep Types

T = Total/NA

ELAN 9000 Tuning Report

Sample ID: Mass Calibration and Resolution

Sample Date/Time: Thursday, September 12, 2013 12:43:23

Tuning File: C:\Elandata\Tuning\epa.tun

Method File: C:\Elandata\Method\TA200 TUNING.mth

Dataset File: C:\Elandata\DataSet\2013_Daily\Mass Calibration and Resolution.709

Smart Tune Solution ID: 1595816

Internal Standard ID: 1582169

Criteria: Mass Accuracy +/-0.07 amu; Resolution = 0.65 +/-0.05 amu

Tuning File

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. WidthCustom Res.
He	3.016	3.025	593	2078	0.650
Be	9.012	9.025	2033	2071	0.628
Mg	23.985	23.925	5649	2079	0.639
Co	58.933	58.925	14137	2086	0.652
Rh	102.905	102.975	24815	2107	0.641
In	114.904	114.925	27725	2111	0.648
Pb	207.977	208.025	50321	2153	0.646
U	238.050	238.025	57608	2165	0.651

Summary

Mass	Meas. Intens. Mean	Meas. Intens. SD	Meas. Intens. RSD
2.000	352270.299	7297.921	2.072
8.000	13.800	3.564	25.824
23.000	13242.944	232.289	1.754
58.000	638.835	35.007	5.480
102.000	59.401	0.894	1.506
114.000	767.547	30.828	4.016
207.000	5712.626	110.580	1.936
237.000	24.800	7.260	29.272

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

ICP-MS Instrument ID: ELAN Start Date: 09/12/2013 End Date: 09/12/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc	Q	Element Ge	Q	Element Y	Q	Element In	Q
IC 480-138948/2	13:31										
IC 480-138948/3	13:36										
IC 480-138948/4	13:42										
ICV 480-138948/5	13:50	99		97		95		96		97	
ICB 480-138948/6	13:56	96		95		95		96		96	
CRI 480-138948/7	14:02	95		93		93		96		96	
ICSA 480-138948/8	14:07	88		85		90		88		88	
ICSAB 480-138948/9	14:14	88		86		90		88		87	
CCV 480-138948/10	14:20	92		88		88		91		91	
CCB 480-138948/11	14:27	93		91		91		94		96	
MB 480-138383/1-A	14:32	94		94		93		95		96	
LCS 480-138383/2-A	14:38	96		95		93		95		95	
LCSD 480-138383/3-A	14:43	95		94		93		95		95	
CCV 480-138948/21	15:23	97		90		88		92		92	
CCB 480-138948/22	15:29	97		95		91		94		94	
480-45418-1	15:35	111				104		110		99	
480-45418-5	15:41	118				109		108		100	
480-45418-5 SD	15:48	102		99		92		93		92	
480-45418-5 PDS	15:55	114				102		104		95	
480-45418-5 MS	16:01	116				104		102		96	
480-45418-5 MSD	16:08	111				104		101		94	
480-45418-6	16:14	97		105		88		91		88	
480-45418-7	16:20	107		114		95		96		90	
480-45418-10	16:26	101		99		94		95		94	
CCV 480-138948/33	16:37	102		96		92		93		92	
CCB 480-138948/34	16:44	101		96		92		94		94	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

ICP-MS Instrument ID: ELAN Start Date: 09/12/2013 End Date: 09/12/2013

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Tb	Q	Element Bi	Q	Element	Q	Element	Q	Element	Q
IC 480-138948/2	13:31										
IC 480-138948/3	13:36										
IC 480-138948/4	13:42										
ICV 480-138948/5	13:50	96									
ICB 480-138948/6	13:56	97									
CRI 480-138948/7	14:02	95									
ICSA 480-138948/8	14:07	90									
ICSAB 480-138948/9	14:14	90									
CCV 480-138948/10	14:20	94									
CCB 480-138948/11	14:27	97									
MB 480-138383/1-A	14:32	98									
LCS 480-138383/2-A	14:38	97									
LCSD 480-138383/3-A	14:43	97									
CCV 480-138948/21	15:23	91									
CCB 480-138948/22	15:29	95									
480-45418-1	15:35	95									
480-45418-5	15:41	95									
480-45418-5 SD	15:48	94									
480-45418-5 PDS	15:55	93									
480-45418-5 MS	16:01	94									
480-45418-5 MSD	16:08	92									
480-45418-6	16:14	89									
480-45418-7	16:20	91									
480-45418-10	16:26	96									
CCV 480-138948/33	16:37	93									
CCB 480-138948/34	16:44	94									

Run File: I1091113B

Instrument: ICAP1

Analyst: MDM

Data Review: LMH 9/11/13 9/12/13

Spikes IDs: 1311053(W1), 1311054 (W2), 1451135(Sn), 1451134(Ag), 1451136(Si), 1320125(TCLP),
1296944 (Sr TCLP)

Pipette IDs: 08-20-13-(1-7,8,10,13,14)

Internal Standard:1581840

Seq#	Run File ID	Sample ID	Date / Time	Type
1	I1091113B	IC-1592370	09/11/13 06:02 PM	Standard
2	I1091113B	IC-1580588	09/11/13 06:05 PM	Standard
3	I1091113B	IC-1580587	09/11/13 06:07 PM	Standard
4	I1091113B	IC-1580586	09/11/13 06:10 PM	Standard
5	I1091113B	ICV-1590692	09/11/13 06:13 PM	QC
6	I1091113B	ICB-1592370	09/11/13 06:16 PM	QC
7	I1091113B	CRI-1590869	09/11/13 06:19 PM	QC
8	I1091113B	ICSA-1580608	09/11/13 06:21 PM	QC
9	I1091113B	ICSAB-1567957	09/11/13 06:24 PM	QC
10	I1091113B	CCV-1580609	09/11/13 06:27 PM	QC
11	I1091113B	CCB-1592370	09/11/13 06:30 PM	QC
12	I1091113B	MB 480-138442/1-A	09/11/13 06:33 PM	Unknown
13	I1091113B	LCS 480-138442/2-A	09/11/13 06:36 PM	Unknown
14	I1091113B	480-45540-C-1-A	09/11/13 06:39 PM	Unknown
15	I1091113B	CCV	09/11/13 06:41 PM	QC
16	I1091113B	CCB	09/11/13 06:44 PM	QC
17	I1091113B	480-45540-C-2-A	09/11/13 06:47 PM	Unknown
18	I1091113B	480-45540-C-2-A SD@5	09/11/13 06:50 PM	Unknown
19	I1091113B	480-45540-C-2-A PDS	09/11/13 06:53 PM	Unknown
20	I1091113B	480-45540-C-2-B MS	09/11/13 06:55 PM	Unknown
21	I1091113B	480-45540-C-2-C MSD	09/11/13 06:58 PM	Unknown
22	I1091113B	480-45540-C-3-A	09/11/13 07:01 PM	Unknown
23	I1091113B	480-45527-A-3-A	09/11/13 07:04 PM	Unknown
24	I1091113B	480-45524-E-1-A	09/11/13 07:07 PM	Unknown
25	I1091113B	MB 480-138405/1-A	09/11/13 07:10 PM	Unknown
26	I1091113B	LCSSRM 480-138405/2-	09/11/13 07:12 PM	Unknown
27	I1091113B	CCV	09/11/13 07:15 PM	QC
28	I1091113B	CCB	09/11/13 07:18 PM	QC
29	I1091113B	460-62711-D-3-A	09/11/13 07:21 PM	Unknown
30	I1091113B	460-62711-C-10-A	09/11/13 07:24 PM	Unknown
31	I1091113B	480-45443-B-1-A	09/11/13 07:27 PM	Unknown
32	I1091113B	480-45443-B-1-A SD@5	09/11/13 07:30 PM	Unknown
33	I1091113B	480-45443-B-1-A PDS	09/11/13 07:32 PM	Unknown
34	I1091113B	480-45443-B-1-B MS	09/11/13 07:35 PM	Unknown
35	I1091113B	480-45443-B-1-C MSD	09/11/13 07:38 PM	Unknown
36	I1091113B	480-45443-B-2-A	09/11/13 07:41 PM	Unknown
37	I1091113B	480-45462-G-1-A	09/11/13 07:44 PM	Unknown
38	I1091113B	480-45374-F-1-A	09/11/13 07:47 PM	Unknown
39	I1091113B	CCV	09/11/13 07:50 PM	QC
40	I1091113B	CCB	09/11/13 07:52 PM	QC

41	I1091113B	480-45423-A-1-A	09/11/13 07:55 PM Unknown
42	I1091113B	480-44724-C-1-B@500	09/11/13 07:58 PM Unknown
43	I1091113B	480-44730-C-1-B@500	09/11/13 08:01 PM Unknown
44	I1091113B	MB 480-138121/1-A	09/11/13 08:04 PM Unknown
45	I1091113B	LCS 480-138121/2-A	09/11/13 08:07 PM Unknown
46	I1091113B	480-45397-D-1-A	09/11/13 08:09 PM Unknown
47	I1091113B	480-45397-D-3-A	09/11/13 08:12 PM Unknown
48	I1091113B	480-45354-C-1-B	09/11/13 08:15 PM Unknown
49	I1091113B	480-45331-F-1-D	09/11/13 08:18 PM Unknown
50	I1091113B	480-45409-A-1-A	09/11/13 08:21 PM Unknown
51	I1091113B	CCV	09/11/13 08:24 PM QC
52	I1091113B	CCB	09/11/13 08:27 PM QC
53	I1091113B	480-45331-F-2-B	09/11/13 08:30 PM Unknown
54	I1091113B	480-45332-A-4-B	09/11/13 08:32 PM Unknown
55	I1091113B	480-45373-A-4-A	09/11/13 08:35 PM Unknown
56	I1091113B	480-45373-A-4-A SD@5	09/11/13 08:38 PM Unknown
57	I1091113B	480-45373-A-4-A PDS	09/11/13 08:41 PM Unknown
58	I1091113B	480-45373-A-4-B MS	09/11/13 08:44 PM Unknown
59	I1091113B	480-45373-A-4-C MSD	09/11/13 08:47 PM Unknown
60	I1091113B	480-45403-H-3-A	09/11/13 08:50 PM Unknown
61	I1091113B	480-45191-M-1-A	09/11/13 08:53 PM Unknown
62	I1091113B	480-45399-M-1-A	09/11/13 08:56 PM Unknown
63	I1091113B	CCV	09/11/13 08:59 PM QC
64	I1091113B	CCB	09/11/13 09:02 PM QC
65	I1091113B	480-45399-M-2-A	09/11/13 09:04 PM Unknown
66	I1091113B	480-45408-F-1-A	09/11/13 09:07 PM Unknown
67	I1091113B	480-45387-C-2-A	09/11/13 09:11 PM Unknown
68	I1091113B	480-45110-N-3-D	09/11/13 09:14 PM Unknown
69	I1091113B	480-44887-A-2-G	09/11/13 09:16 PM Unknown
70	I1091113B	480-44894-F-2-D	09/11/13 09:19 PM Unknown
71	I1091113B	480-45052-C-2-B	09/11/13 09:22 PM Unknown
72	I1091113B	480-45121-D-12-C	09/11/13 09:25 PM Unknown
73	I1091113B	MB 480-138216/1-A	09/11/13 09:28 PM Unknown
74	I1091113B	LCSSRM 480-138216/2-	09/11/13 09:31 PM Unknown
75	I1091113B	CCV	09/11/13 09:34 PM QC
76	I1091113B	CCB	09/11/13 09:36 PM QC
77	I1091113B	480-45385-B-1-A	09/11/13 09:39 PM Unknown
78	I1091113B	480-45385-B-1-A SD@5	09/11/13 09:42 PM Unknown
79	I1091113B	480-45385-B-1-A PDS	09/11/13 09:45 PM Unknown
80	I1091113B	480-45385-B-1-B MS	09/11/13 09:48 PM Unknown
81	I1091113B	480-45385-B-1-C MSD	09/11/13 09:51 PM Unknown
82	I1091113B	480-45385-A-2-A	09/11/13 09:54 PM Unknown
83	I1091113B	480-45385-A-3-A	09/11/13 09:57 PM Unknown
84	I1091113B	480-45385-A-4-A	09/11/13 10:00 PM Unknown
85	I1091113B	480-45385-A-5-D	09/11/13 10:03 PM Unknown
86	I1091113B	480-45385-B-6-B	09/11/13 10:06 PM Unknown
87	I1091113B	CCV	09/11/13 10:09 PM QC
88	I1091113B	CCB	09/11/13 10:12 PM QC
89	I1091113B	480-45385-B-7-B	09/11/13 10:15 PM Unknown
90	I1091113B	MB 480-138127/1-A	09/11/13 10:18 PM Unknown

91	I1091113B	LCS 480-138127/2-A	09/11/13 10:21 PM Unknown
92	I1091113B	LCSD 480-138127/3-A	09/11/13 10:24 PM Unknown
93	I1091113B	480-45414-D-1-A	09/11/13 10:26 PM Unknown
94	I1091113B	480-45414-D-2-A	09/11/13 10:29 PM Unknown
95	I1091113B	480-45414-D-3-A	09/11/13 10:32 PM Unknown
96	I1091113B	480-45414-D-3-A SD@5	09/11/13 10:35 PM Unknown
97	I1091113B	480-45414-D-3-A PDS	09/11/13 10:38 PM Unknown
98	I1091113B	480-45414-D-3-B MS	09/11/13 10:41 PM Unknown
99	I1091113B	CCV	09/11/13 10:43 PM QC
100	I1091113B	CCB	09/11/13 10:46 PM QC
101	I1091113B	480-45414-D-3-C MSD	09/11/13 10:49 PM Unknown
102	I1091113B	480-45414-D-4-A	09/11/13 10:52 PM Unknown
103	I1091113B	480-45414-D-5-A	09/11/13 10:55 PM Unknown
104	I1091113B	480-45414-D-6-A	09/11/13 10:58 PM Unknown
105	I1091113B	480-45414-D-7-A	09/11/13 11:01 PM Unknown
106	I1091113B	480-45414-D-8-A	09/11/13 11:04 PM Unknown
107	I1091113B	480-45394-K-1-A	09/11/13 11:07 PM Unknown
108	I1091113B	480-45394-K-2-A	09/11/13 11:10 PM Unknown
109	I1091113B	480-45394-K-3-A	09/11/13 11:13 PM Unknown
110	I1091113B	480-45394-K-4-A	09/11/13 11:15 PM Unknown
111	I1091113B	CCV	09/11/13 11:18 PM QC
112	I1091113B	CCB	09/11/13 11:21 PM QC
113	I1091113B	480-45393-A-1-A	09/11/13 11:24 PM Unknown
114	I1091113B	480-45393-B-2-A	09/11/13 11:27 PM Unknown
115	I1091113B	MB 480-138332/1-A	09/11/13 11:30 PM Unknown
116	I1091113B	LCS 480-138332/2-A	09/11/13 11:32 PM Unknown
117	I1091113B	480-45465-C-1-A	09/11/13 11:35 PM Unknown
118	I1091113B	480-45465-C-2-A	09/11/13 11:38 PM Unknown
119	I1091113B	480-45465-C-3-A	09/11/13 11:41 PM Unknown
120	I1091113B	480-45465-C-4-A	09/11/13 11:44 PM Unknown
121	I1091113B	480-45465-C-4-A SD@5	09/11/13 11:47 PM Unknown
122	I1091113B	480-45465-C-4-A PDS	09/11/13 11:50 PM Unknown
123	I1091113B	CCV	09/11/13 11:52 PM QC
124	I1091113B	CCB	09/11/13 11:55 PM QC
125	I1091113B	480-45465-C-4-B MS	09/11/13 11:58 PM Unknown
126	I1091113B	480-45465-C-4-C MSD	09/12/13 12:01 AM Unknown
127	I1091113B	480-45465-C-5-A	09/12/13 12:04 AM Unknown
128	I1091113B	480-45465-C-6-A	09/12/13 12:07 AM Unknown
129	I1091113B	480-45465-C-7-A	09/12/13 12:09 AM Unknown
130	I1091113B	480-45435-F-1-A	09/12/13 12:12 AM Unknown
131	I1091113B	480-45433-A-1-A	09/12/13 12:15 AM Unknown
132	I1091113B	480-45433-A-2-A	09/12/13 12:18 AM Unknown
133	I1091113B	480-45433-A-3-A	09/12/13 12:21 AM Unknown
134	I1091113B	480-45433-A-4-A	09/12/13 12:24 AM Unknown
135	I1091113B	CCV	09/12/13 12:27 AM QC
136	I1091113B	CCB	09/12/13 12:30 AM QC
137	I1091113B	480-45433-A-5-A	09/12/13 12:33 AM Unknown
138	I1091113B	480-45433-A-6-A	09/12/13 12:36 AM Unknown
139	I1091113B	480-45433-A-7-A	09/12/13 12:39 AM Unknown
140	I1091113B	480-45433-A-8-A	09/12/13 12:42 AM Unknown

141	I1091113B	480-45433-A-9-A	09/12/13 12:45 AM Unknown
142	I1091113B	480-45433-A-10-A	09/12/13 12:48 AM Unknown
143	I1091113B	480-45353-S-1-B	09/12/13 12:50 AM Unknown
144	I1091113B	480-45445-D-1-A	09/12/13 12:54 AM Unknown
145	I1091113B	MB 480-138333/1-A	09/12/13 12:57 AM Unknown
146	I1091113B	LCS 480-138333/2-A	09/12/13 12:59 AM Unknown
147	I1091113B	CCV	09/12/13 01:02 AM QC
148	I1091113B	CCB	09/12/13 01:05 AM QC
149	I1091113B	480-45470-B-1-A	09/12/13 01:08 AM Unknown
150	I1091113B	480-45470-B-2-A	09/12/13 01:11 AM Unknown
151	I1091113B	480-45470-B-2-A SD@5	09/12/13 01:13 AM Unknown
152	I1091113B	480-45470-B-2-A PDS	09/12/13 01:16 AM Unknown
153	I1091113B	480-45470-B-2-B MS	09/12/13 01:19 AM Unknown
154	I1091113B	480-45470-B-2-C MSD	09/12/13 01:22 AM Unknown
155	I1091113B	480-45470-B-3-A	09/12/13 01:24 AM Unknown
156	I1091113B	480-45471-B-1-A	09/12/13 01:27 AM Unknown
157	I1091113B	480-45471-B-2-A	09/12/13 01:30 AM Unknown
158	I1091113B	480-45471-B-3-A	09/12/13 01:33 AM Unknown
159	I1091113B	CCV	09/12/13 01:36 AM QC
160	I1091113B	CCB	09/12/13 01:38 AM QC
161	I1091113B	MB 480-138336/1-A	09/12/13 01:41 AM Unknown
162	I1091113B	LCS 480-138336/2-A	09/12/13 01:44 AM Unknown
163	I1091113B	LCSD 480-138336/3-A	09/12/13 01:47 AM Unknown
164	I1091113B	480-45474-F-1-A	09/12/13 01:50 AM Unknown
165	I1091113B	480-45474-F-2-A	09/12/13 01:52 AM Unknown
166	I1091113B	480-45474-F-2-A SD@5	09/12/13 01:55 AM Unknown
167	I1091113B	480-45474-F-2-A PDS	09/12/13 01:58 AM Unknown
168	I1091113B	480-45474-F-2-B MS	09/12/13 02:01 AM Unknown
169	I1091113B	480-45474-F-2-C MSD	09/12/13 02:04 AM Unknown
170	I1091113B	480-45474-F-3-A	09/12/13 02:06 AM Unknown
171	I1091113B	CCV	09/12/13 02:09 AM QC
172	I1091113B	CCB	09/12/13 02:12 AM QC
173	I1091113B	480-45474-F-4-A	09/12/13 02:15 AM Unknown
174	I1091113B	480-45474-F-5-A	09/12/13 02:18 AM Unknown
175	I1091113B	480-45473-E-1-A	09/12/13 02:21 AM Unknown
176	I1091113B	480-45473-E-2-A	09/12/13 02:23 AM Unknown
177	I1091113B	480-45473-E-3-A	09/12/13 02:26 AM Unknown
178	I1091113B	480-45473-E-4-A	09/12/13 02:29 AM Unknown
179	I1091113B	480-45473-E-5-A	09/12/13 02:32 AM Unknown
180	I1091113B	480-45473-E-6-A	09/12/13 02:35 AM Unknown
181	I1091113B	480-45473-E-7-A	09/12/13 02:37 AM Unknown
182	I1091113B	480-45473-E-8-A	09/12/13 02:40 AM Unknown
183	I1091113B	CCV	09/12/13 02:43 AM QC
184	I1091113B	CCB	09/12/13 02:46 AM QC
185	I1091113B	480-45479-A-1-A	09/12/13 02:49 AM Unknown
186	I1091113B	480-45479-A-2-A	09/12/13 02:52 AM Unknown
187	I1091113B	480-45481-F-1-A	09/12/13 02:54 AM Unknown
188	I1091113B	480-45481-F-2-A	09/12/13 02:57 AM Unknown
189	I1091113B	480-45480-C-1-A	09/12/13 03:00 AM Unknown
190	I1091113B	480-45480-C-2-A	09/12/13 03:03 AM Unknown

191	I1091113B	480-45490-A-1-A	09/12/13 03:06 AM Unknown
192	I1091113B	MB 480-138328/1-A	09/12/13 03:09 AM Unknown
193	I1091113B	LCS 480-138328/2-A	09/12/13 03:11 AM Unknown
194	I1091113B	480-45427-D-1-A	09/12/13 03:14 AM Unknown
195	I1091113B	CCV	09/12/13 03:17 AM QC
196	I1091113B	CCB	09/12/13 03:20 AM QC
197	I1091113B	480-45427-D-2-A	09/12/13 03:23 AM Unknown
198	I1091113B	480-45427-D-3-A	09/12/13 03:26 AM Unknown
199	I1091113B	480-45427-D-4-A	09/12/13 03:29 AM Unknown
200	I1091113B	480-45417-C-5-A	09/12/13 03:32 AM Unknown
201	I1091113B	480-45418-C-1-A	09/12/13 03:35 AM Unknown
202	I1091113B	480-45418-C-5-A	09/12/13 03:38 AM Unknown
203	I1091113B	480-45418-C-5-A SD@5	09/12/13 03:41 AM Unknown
204	I1091113B	480-45418-C-5-A PDS	09/12/13 03:44 AM Unknown
205	I1091113B	480-45418-C-5-B MS	09/12/13 03:47 AM Unknown
206	I1091113B	480-45418-C-5-C MSD	09/12/13 03:50 AM Unknown
207	I1091113B	CCV	09/12/13 03:53 AM QC
208	I1091113B	CCB	09/12/13 03:55 AM QC
209	I1091113B	480-45418-C-6-A	09/12/13 03:58 AM Unknown
210	I1091113B	480-45418-C-7-A	09/12/13 04:01 AM Unknown
211	I1091113B	480-45418-A-10-A	09/12/13 04:04 AM Unknown
212	I1091113B	480-45425-C-1-A	09/12/13 04:07 AM Unknown
213	I1091113B	480-45425-A-2-A	09/12/13 04:10 AM Unknown
214	I1091113B	480-45425-E-4-A	09/12/13 04:13 AM Unknown
215	I1091113B	480-45416-E-1-A	09/12/13 04:16 AM Unknown
216	I1091113B	480-45416-E-2-A	09/12/13 04:18 AM Unknown
217	I1091113B	480-45416-E-3-A	09/12/13 04:21 AM Unknown
218	I1091113B	480-45416-E-4-A	09/12/13 04:24 AM Unknown
219	I1091113B	CCV	09/12/13 04:27 AM QC
220	I1091113B	CCB	09/12/13 04:30 AM QC
221	I1091113B	480-45416-E-5-A	09/12/13 04:32 AM Unknown
222	I1091113B	480-45456-H-1-A	09/12/13 04:35 AM Unknown
223	I1091113B	480-45456-H-4-A	09/12/13 04:38 AM Unknown
224	I1091113B	MB 480-138335/1-A	09/12/13 04:41 AM Unknown
225	I1091113B	LCS 480-138335/2-A	09/12/13 04:44 AM Unknown
226	I1091113B	480-45472-F-1-A	09/12/13 04:47 AM Unknown
227	I1091113B	480-45472-F-2-A	09/12/13 04:50 AM Unknown
228	I1091113B	480-45472-F-3-A	09/12/13 04:52 AM Unknown
229	I1091113B	480-45472-F-4-A	09/12/13 04:55 AM Unknown
230	I1091113B	480-45472-F-5-A	09/12/13 04:58 AM Unknown
231	I1091113B	CCV	09/12/13 05:01 AM QC
232	I1091113B	CCB	09/12/13 05:04 AM QC
233	I1091113B	480-45472-F-6-A	09/12/13 05:07 AM Unknown
234	I1091113B	480-45472-F-6-A SD@5	09/12/13 05:09 AM Unknown
235	I1091113B	480-45472-F-6-A PDS	09/12/13 05:12 AM Unknown
236	I1091113B	480-45472-F-6-B MS	09/12/13 05:15 AM Unknown
237	I1091113B	480-45472-F-6-C MSD	09/12/13 05:18 AM Unknown
238	I1091113B	480-45472-F-7-A	09/12/13 05:21 AM Unknown
239	I1091113B	480-45466-E-1-A	09/12/13 05:23 AM Unknown
240	I1091113B	480-45466-E-2-A	09/12/13 05:26 AM Unknown

241	I1091113B	480-45466-E-3-A	09/12/13 05:29 AM Unknown
242	I1091113B	480-45466-E-4-A	09/12/13 05:32 AM Unknown
243	I1091113B	CCV	09/12/13 05:34 AM QC
244	I1091113B	CCB	09/12/13 05:37 AM QC
245	I1091113B	480-45466-E-5-A	09/12/13 05:40 AM Unknown
246	I1091113B	480-45466-E-6-A	09/12/13 05:43 AM Unknown
247	I1091113B	480-45466-E-7-A	09/12/13 05:46 AM Unknown
248	I1091113B	480-45476-C-1-A	09/12/13 05:49 AM Unknown
249	I1091113B	480-45476-C-2-A	09/12/13 05:52 AM Unknown
250	I1091113B	480-45476-G-3-A	09/12/13 05:54 AM Unknown
251	I1091113B	480-45476-G-4-A	09/12/13 05:57 AM Unknown
252	I1091113B	480-45475-E-1-A	09/12/13 06:00 AM Unknown
253	I1091113B	480-45475-E-2-A	09/12/13 06:03 AM Unknown
254	I1091113B	MB 480-138334/1-A	09/12/13 06:06 AM Unknown
255	I1091113B	CCV	09/12/13 06:08 AM QC
256	I1091113B	CCB	09/12/13 06:11 AM QC
257	I1091113B	LCS 480-138334/2-A	09/12/13 06:14 AM Unknown
258	I1091113B	480-45457-C-1-A	09/12/13 06:17 AM Unknown
259	I1091113B	480-45457-C-1-A SD@5	09/12/13 06:20 AM Unknown
260	I1091113B	480-45457-C-1-A PDS	09/12/13 06:23 AM Unknown
261	I1091113B	480-45457-C-1-B MS	09/12/13 06:25 AM Unknown
262	I1091113B	480-45457-C-1-C MSD	09/12/13 06:28 AM Unknown
263	I1091113B	480-45457-C-2-A	09/12/13 06:31 AM Unknown
264	I1091113B	480-45457-C-3-A	09/12/13 06:34 AM Unknown
265	I1091113B	480-45457-C-4-A	09/12/13 06:37 AM Unknown
266	I1091113B	480-45457-C-5-A	09/12/13 06:40 AM Unknown
267	I1091113B	CCV	09/12/13 06:43 AM QC
268	I1091113B	CCB	09/12/13 06:45 AM QC
269	I1091113B	480-45457-C-6-A	09/12/13 06:48 AM Unknown
270	I1091113B	480-45457-C-7-A	09/12/13 06:51 AM Unknown
271	I1091113B	480-45457-C-8-A	09/12/13 06:54 AM Unknown
272	I1091113B	480-45457-C-9-A	09/12/13 06:57 AM Unknown
273	I1091113B	480-45457-C-10-A	09/12/13 07:00 AM Unknown
274	I1091113B	480-45457-C-11-A	09/12/13 07:03 AM Unknown
275	I1091113B	480-45457-C-12-A	09/12/13 07:06 AM Unknown
276	I1091113B	480-45457-C-13-A	09/12/13 07:09 AM Unknown
277	I1091113B	480-45457-C-14-A	09/12/13 07:12 AM Unknown
278	I1091113B	480-45449-F-2-A	09/12/13 07:15 AM Unknown
279	I1091113B	CCV	09/12/13 07:17 AM QC
280	I1091113B	CCB	09/12/13 07:20 AM QC
281	I1091113B	480-45449-F-3-A	09/12/13 07:23 AM Unknown
282	I1091113B	480-45449-F-4-A	09/12/13 07:26 AM Unknown
283	I1091113B	480-45454-F-1-A	09/12/13 07:29 AM Unknown
284	I1091113B	480-45486-C-1-A	09/12/13 07:32 AM Unknown
285	I1091113B	480-45467-E-1-A	09/12/13 07:34 AM Unknown
286	I1091113B	RB	09/12/13 07:37 AM Unknown
287	I1091113B	CRI-1590869	09/12/13 07:40 AM QC
288	I1091113B	ICSA-1580608	09/12/13 07:43 AM QC
289	I1091113B	ICSAB-1567957	09/12/13 07:46 AM QC
290	I1091113B	CCV	09/12/13 07:49 AM QC

I1091113B

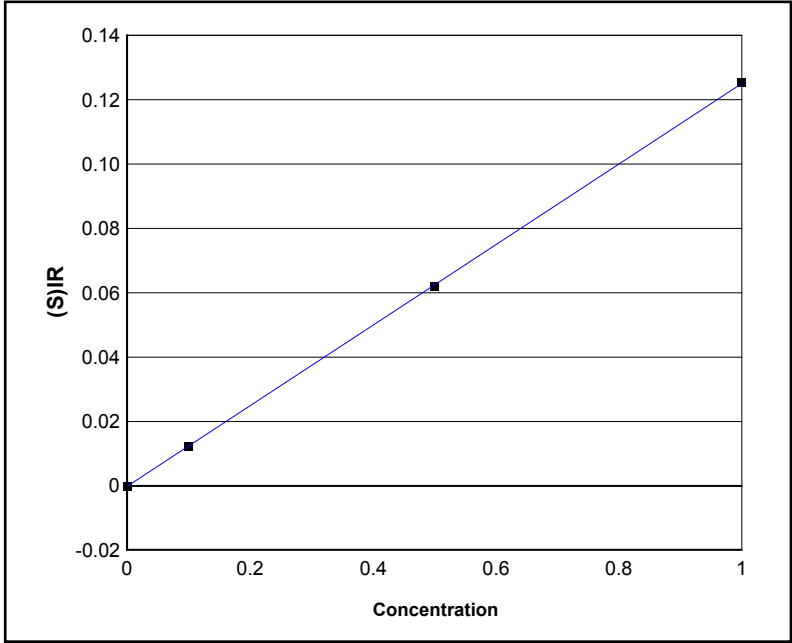
Author:MDM

Published:9/12/2013 8:25:50AM

Instrument Name:iCAP1

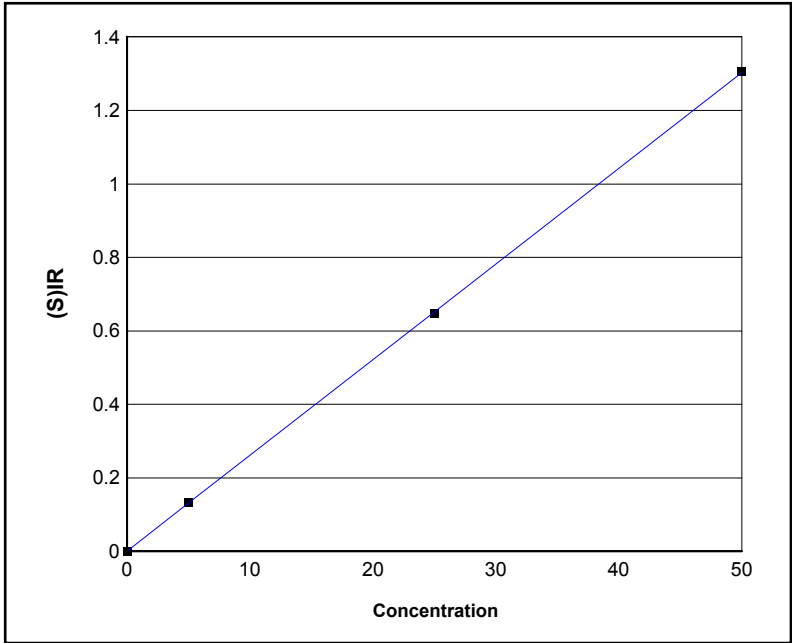
Serial Number:20094603

Method Name:ICAP1 (445)



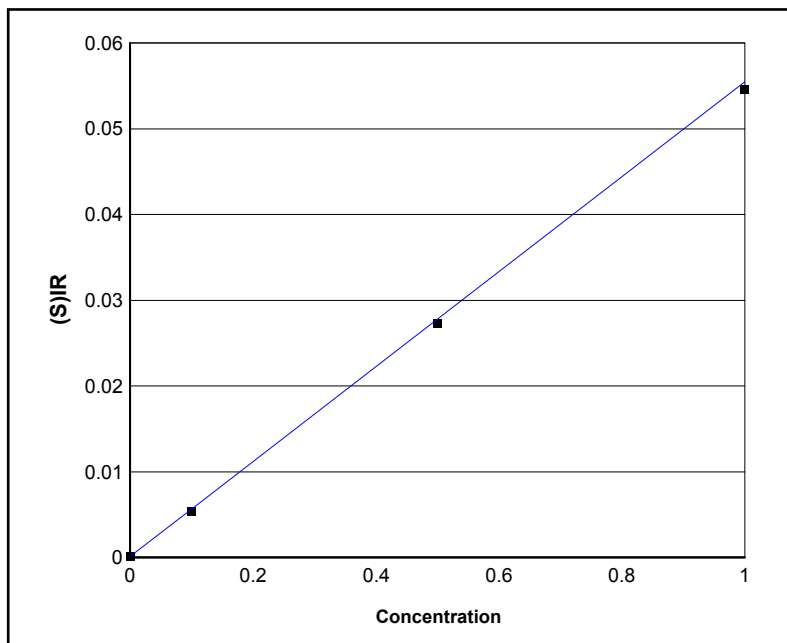
Element Name:		Ag
Element Wavelength:		Ag 328.068 nm
Concentration Units:		ppm
Date of Calibration:		9/11/2013 6:13:19PM
Date of Fit:		9/11/2013 6:13:19PM
Type of Fit:		Linear
Correlation:		0.99999
A0 (Offset):		-0.00023254
A1 (Gain):		0.12525
A2 (Curvature):		0.00000
n (Exponent):		1.0000
Reslope		QC Normalize
Slope:	1.0000	Slope factor: 1.0000
Y Int:	0.00000	Offset: 0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)/IR	Stddev	Emphasis
IC1	0.00000	0.0000003229	0.0000003229	0.00000	-0.00023250	0.0000086890	1
IC4	1.0000	1.0036	0.0036043	0.36043	0.12548	0.00019693	1
IC2	0.10000	0.10005	0.000046930	0.046930	0.012300	0.000058428	1
IC3	0.50000	0.49635	-0.0036512	-0.73024	0.061943	0.00013600	1



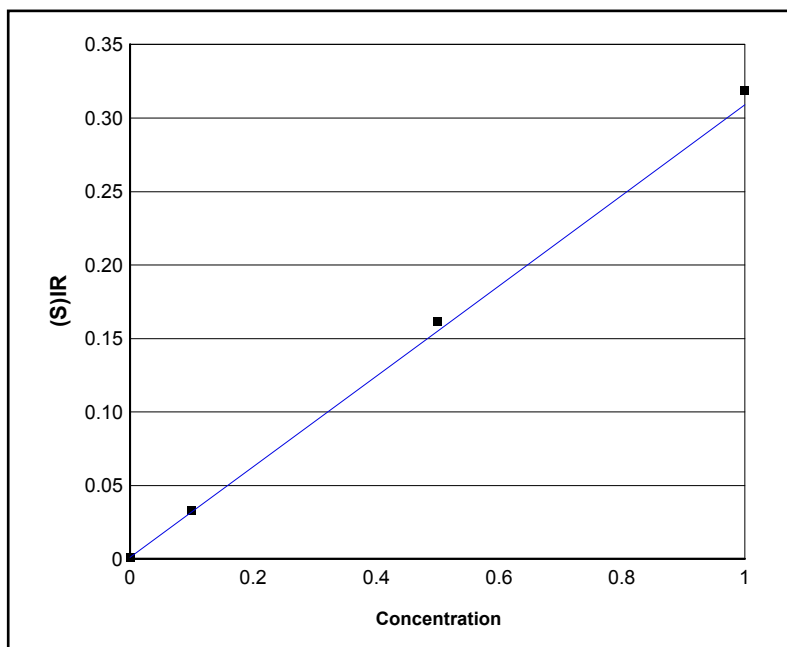
Element Name:		Al
Element Wavelength:		Al 308.215 nm
Concentration Units:		ppm
Date of Calibration:		9/11/2013 6:13:19PM
Date of Fit:		9/11/2013 6:13:19PM
Type of Fit:		Linear
Correlation:		0.99997
A0 (Offset):		0.00093937
A1 (Gain):		0.026040
A2 (Curvature):		0.00000
n (Exponent):		1.0000
Reslope		QC Normalize
Slope:	1.0000	Slope factor: 1.0000
Y Int:	0.00000	Offset: 0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)/IR	Stddev	Emphasis
IC1	0.00000	-0.000062721	-0.000062721	0.00000	0.00093773	0.00036703	1
IC4	50.000	50.125	0.12529	0.25057	1.3062	0.0043038	1
IC2	5.0000	5.0941	0.094062	1.8812	0.13359	0.00027854	1
IC3	25.000	24.781	-0.21935	-0.87739	0.64623	0.0013899	1



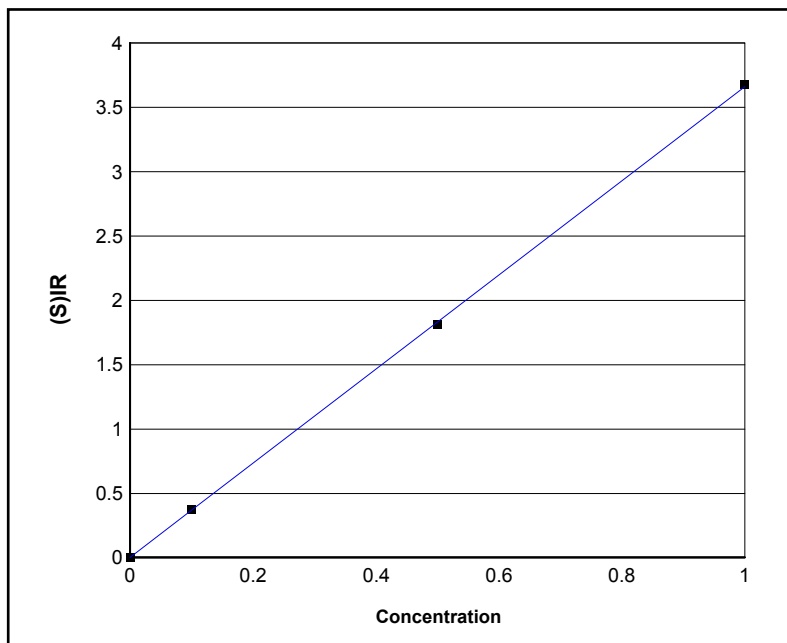
Element Name:		As	
Element Wavelength:		As 189.042 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99996	
A0 (Offset):		0.00011906	
A1 (Gain):		0.055395	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000029114	0.0000029114	0.00000	0.00011922	0.000078160	1
IC4	1.0000	1.0031	0.0030719	0.30719	0.054653	0.000096141	1
IC2	0.10000	0.096745	-0.0032553	-3.2553	0.0053751	0.00011379	1
IC3	0.50000	0.50018	0.00018336	0.036672	0.027311	0.000064831	1



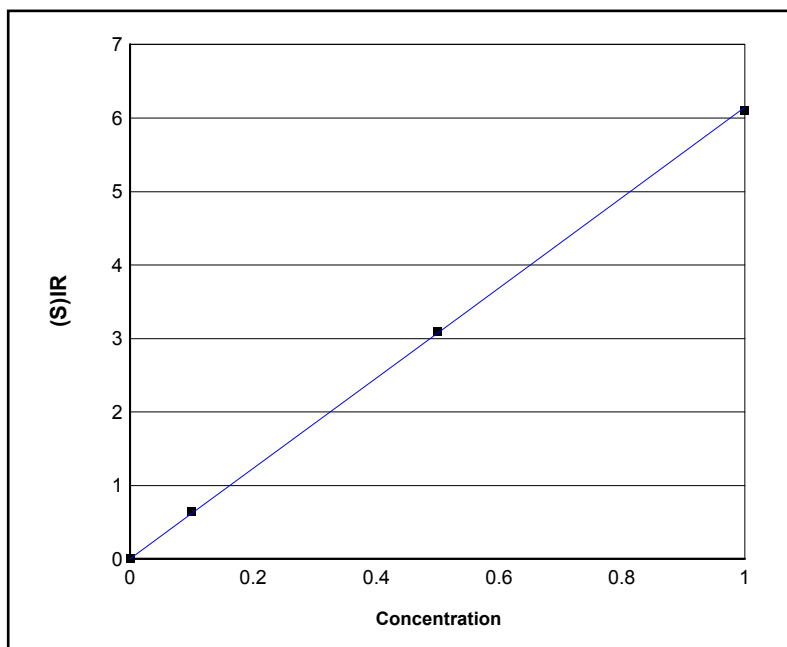
Element Name:		B	
Element Wavelength:		B 208.959 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99999	
A0 (Offset):		0.0011952	
A1 (Gain):		0.30769	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000883	-0.0000000883	0.00000	0.0011952	0.000045384	1
IC4	1.0000	0.99739	-0.0026086	-0.26086	0.31903	0.00062005	1
IC2	0.10000	0.099784	-0.00021572	-0.21572	0.032993	0.00012005	1
IC3	0.50000	0.50282	0.0028243	0.56486	0.16138	0.00049651	1



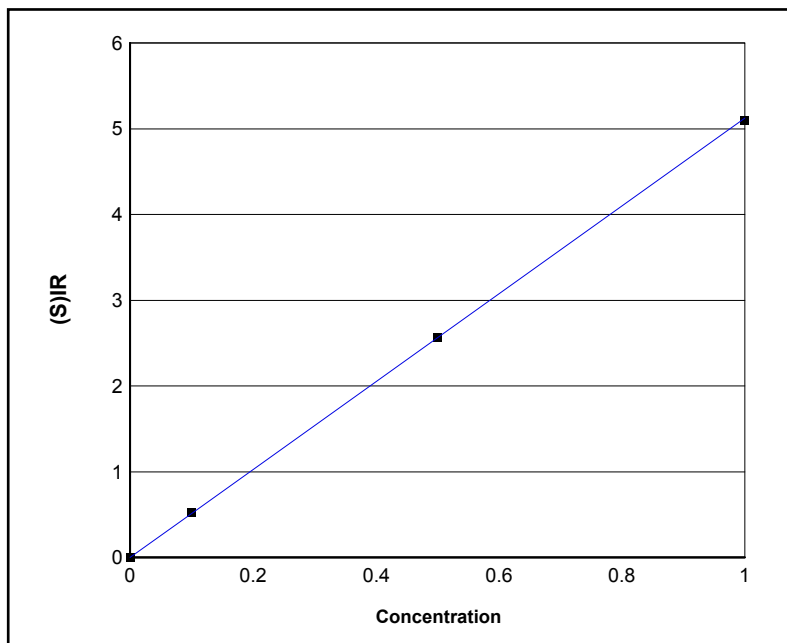
Element Name:		Ba	
Element Wavelength:		Ba 455.403 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99997	
A0 (Offset):		0.00097519	
A1 (Gain):		3.6624	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000008764	-0.0000008764	0.00000	0.00097198	0.00072675	1
IC4	1.0000	1.0033	0.0033036	0.33036	3.6754	0.016143	1
IC2	0.10000	0.10151	0.0015085	1.5085	0.37274	0.0025431	1
IC3	0.50000	0.49519	-0.0048121	-0.96241	1.8145	0.0073782	1



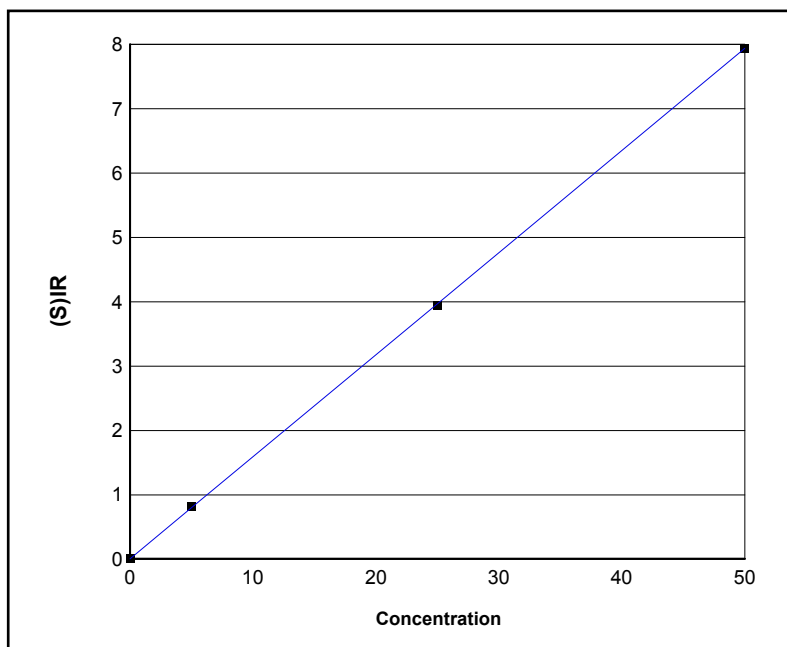
Element Name:		Ba	
Element Wavelength:		Ba 455.403 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99991	
A0 (Offset):		0.0010119	
A1 (Gain):		6.1458	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000045575	-0.0000045575	0.00000	0.00098392	0.000036892	1
IC4	1.0000	0.99253	-0.0074747	-0.74747	6.1009	0.042155	1
IC2	0.10000	0.10476	0.0047625	4.7625	0.64487	0.00048233	1
IC3	0.50000	0.50271	0.0027122	0.54245	3.0906	0.013094	1



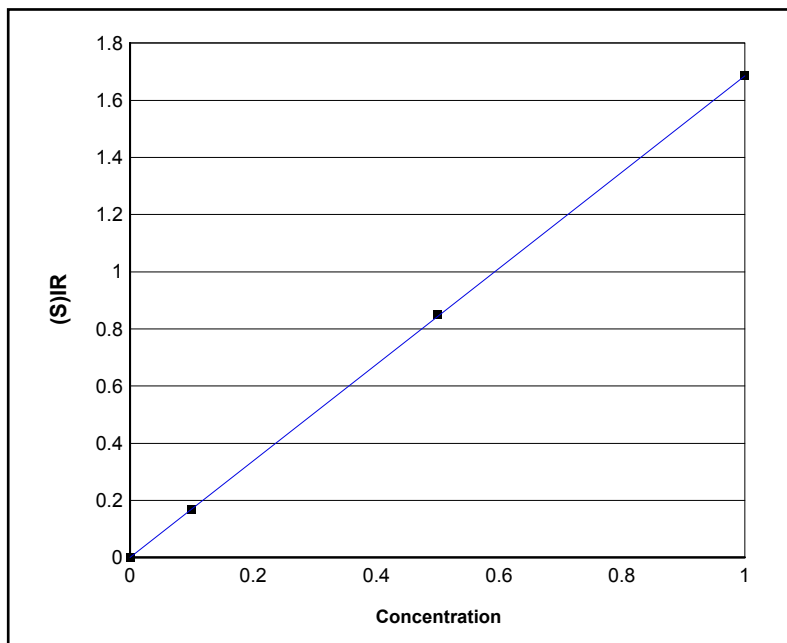
Element Name:		Be	
Element Wavelength:		Be 313.042 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99998	
A0 (Offset):		0.00011634	
A1 (Gain):		5.1238	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000021641	-0.0000021641	0.00000	0.00010525	0.00018192	1
IC4	1.0000	0.99673	-0.0032667	-0.32667	5.1033	0.0076897	1
IC2	0.10000	0.10230	0.0022968	2.2968	0.52388	0.0019108	1
IC3	0.50000	0.50097	0.00096990	0.19398	2.5651	0.0040234	1



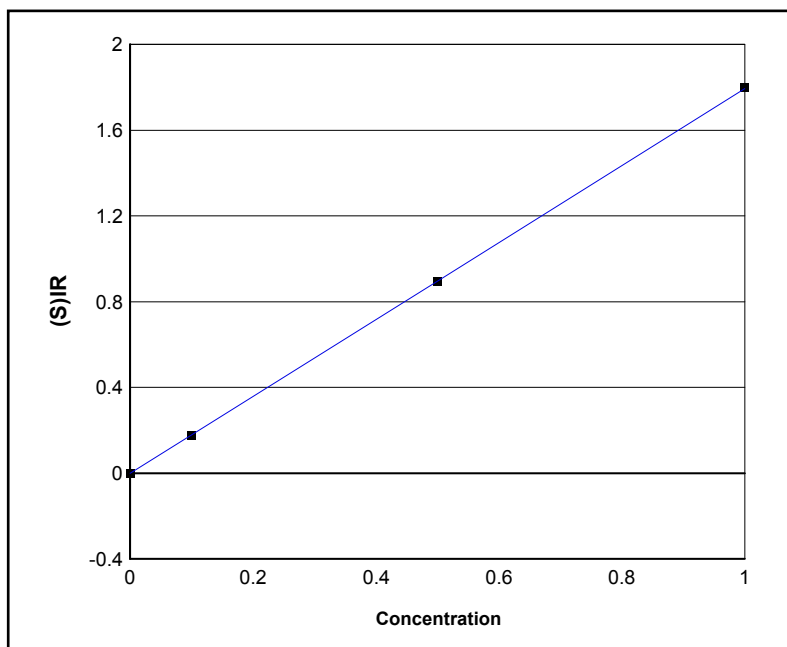
Element Name:		Ca	
Element Wavelength:		Ca 317.933 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99999	
A0 (Offset):		0.0060064	
A1 (Gain):		0.15866	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.000062773	-0.000062773	0.00000	0.0059965	0.000049227	1
IC4	50.000	50.051	0.051030	0.10206	7.9469	0.012528	1
IC2	5.0000	5.0848	0.084845	1.6969	0.81275	0.0025923	1
IC3	25.000	24.864	-0.13587	-0.54350	3.9509	0.0081540	1



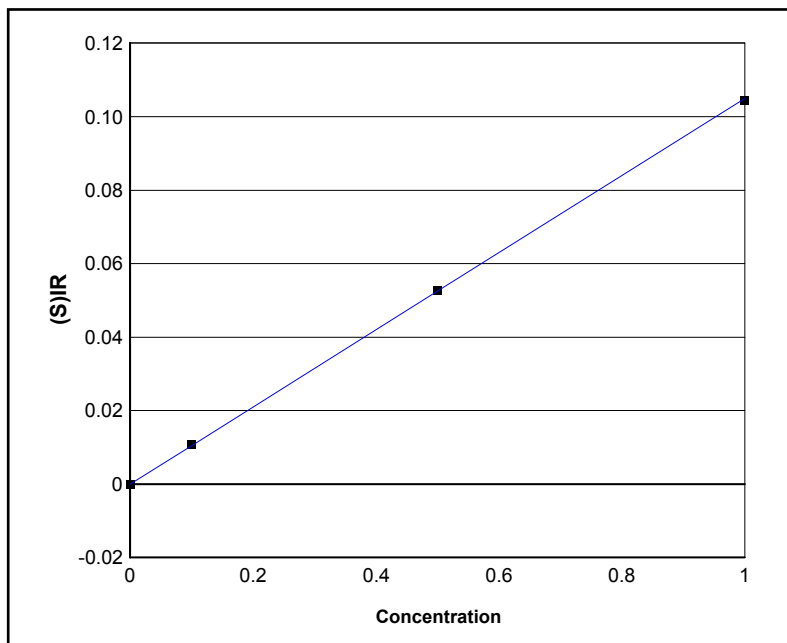
Element Name:		Cd	
Element Wavelength:		Cd 228.802 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99999	
A0 (Offset):		0.00070211	
A1 (Gain):		1.6856	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000002400	-0.0000002400	0.00000	0.00070171	0.000092911	1
IC4	1.0000	0.99755	-0.0024540	-0.24540	1.6876	0.0016775	1
IC2	0.10000	0.099993	-0.0000067456	-0.0067456	0.16979	0.00023425	1
IC3	0.50000	0.50246	0.0024607	0.49215	0.85036	0.0033973	1



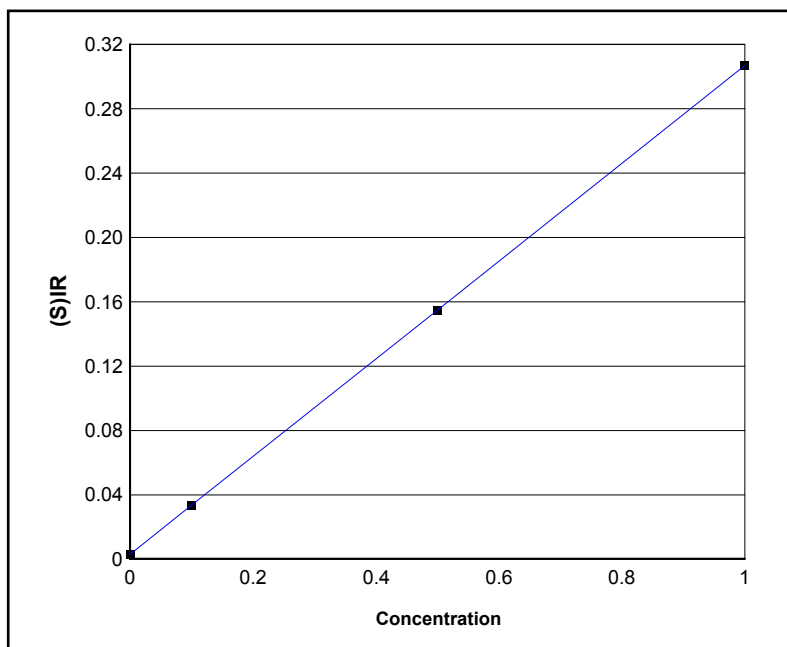
Element Name:		Co	
Element Wavelength:		Co 228.616 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99998	
A0 (Offset):		-0.00050339	
A1 (Gain):		1.7949	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000020757	0.0000020757	0.00000	-0.00049966	0.000038404	1
IC4	1.0000	1.0034	0.0033925	0.33925	1.8020	0.00067455	1
IC2	0.10000	0.097829	-0.0021705	-2.1705	0.17525	0.00010477	1
IC3	0.50000	0.49878	-0.0012220	-0.24439	0.89553	0.0016791	1



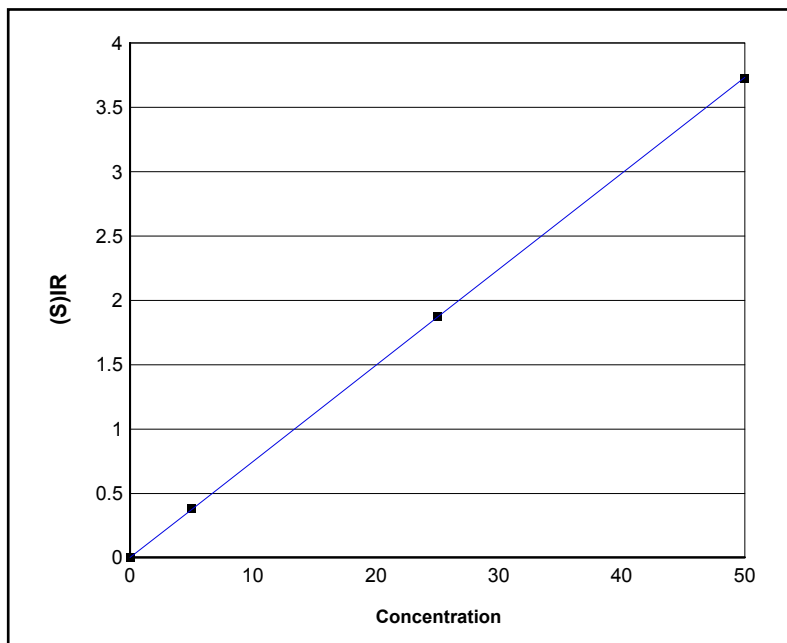
Element Name:		Cr	
Element Wavelength:		Cr 267.716 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99997	
A0 (Offset):		-0.000029256	
A1 (Gain):		0.10499	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00000	0.00000	0.00000	-0.000029494	0.000020082	1
IC4	1.0000	0.99566	-0.0043351	-0.43351	0.10450	0.00026872	1
IC2	0.10000	0.10230	0.0023018	2.3018	0.010711	0.000034637	1
IC3	0.50000	0.50203	0.0020333	0.40665	0.052677	0.000029468	1



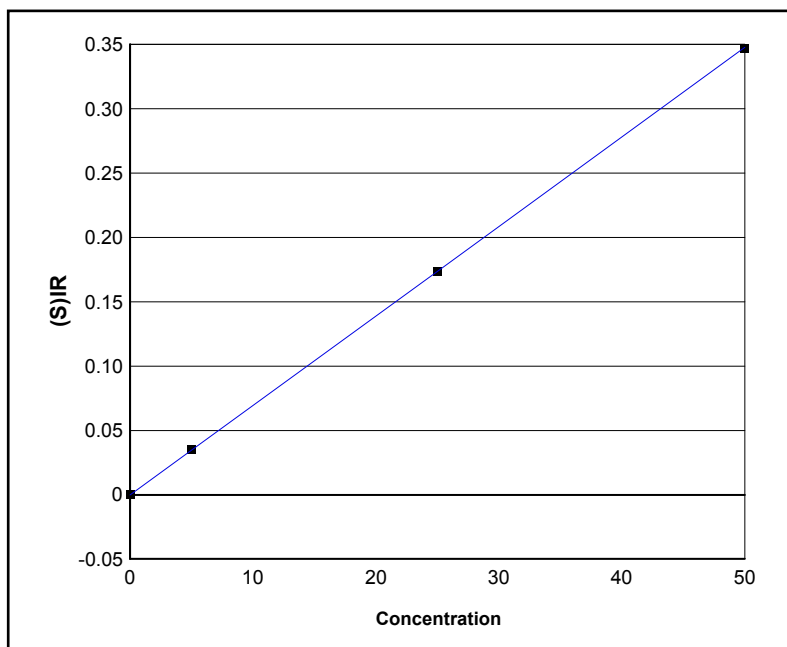
Element Name:		Cu	
Element Wavelength:		Cu 324.754 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		1.00000	
A0 (Offset):		0.0029401	
A1 (Gain):		0.30397	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.00000	0.00000	0.00000	0.0029400	0.000018605	1
IC4	1.0000	1.0002	0.00016449	0.016449	0.30662	0.00050752	1
IC2	0.10000	0.10041	0.00041232	0.41232	0.033428	0.000021978	1
IC3	0.50000	0.49942	-0.00057681	-0.11536	0.15458	0.00020256	1



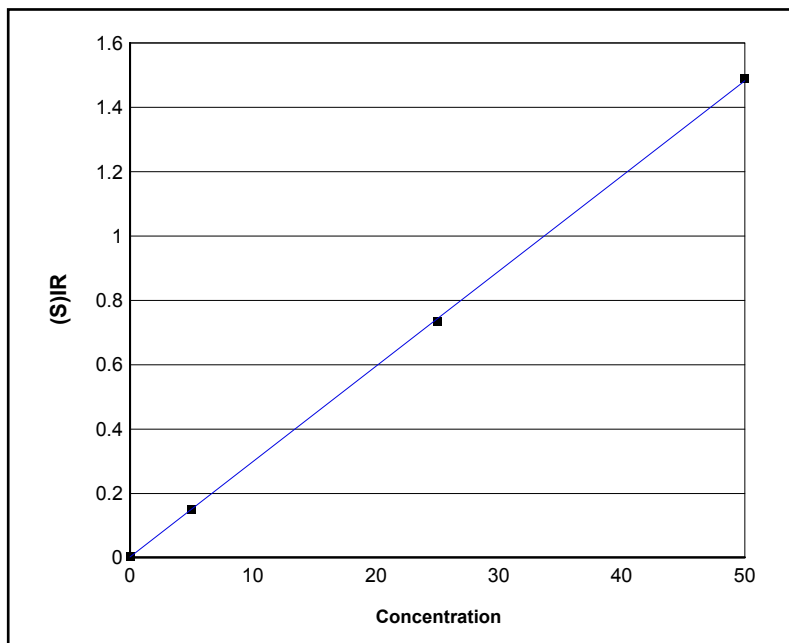
Element Name:		Fe	
Element Wavelength:		Fe 259.940 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99998	
A0 (Offset):		0.00053915	
A1 (Gain):		0.074698	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.000094817	-0.000094817	0.00000	0.00053207	0.00019989	1
IC4	50.000	49.828	-0.17190	-0.34380	3.7226	0.0027331	1
IC2	5.0000	5.0970	0.097034	1.9407	0.38128	0.00095599	1
IC3	25.000	25.075	0.074866	0.29946	1.8736	0.0026774	1



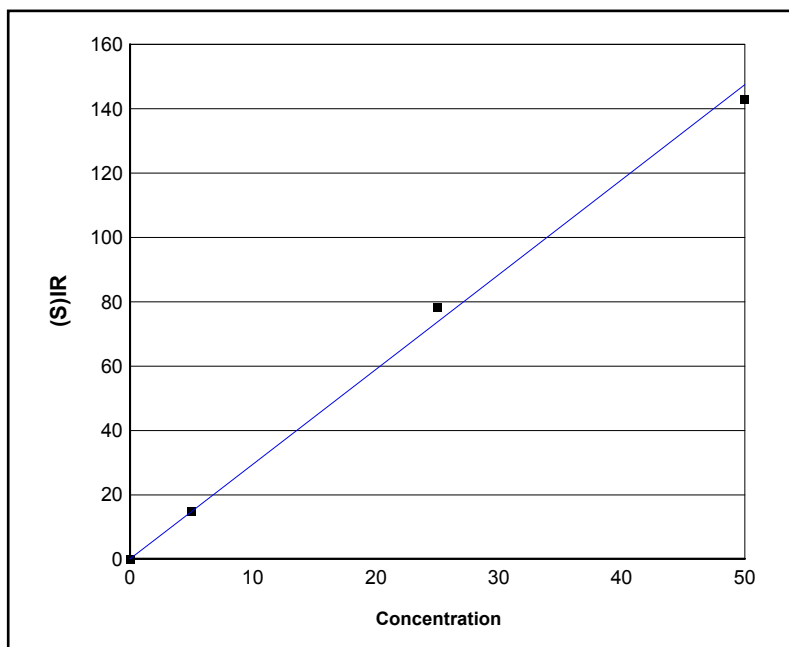
Element Name:		Fe	
Element Wavelength:		Fe 271.441 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		1.00000	
A0 (Offset):		-0.000045021	
A1 (Gain):		0.0069544	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.000048128	-0.000048128	0.00000	-0.000045356	0.0000098994	1
IC4	50.000	49.941	-0.059093	-0.11819	0.34727	0.000061421	1
IC2	5.0000	5.0528	0.052774	1.0555	0.035094	0.00024520	1
IC3	25.000	25.006	0.0063189	0.025276	0.17386	0.0013523	1



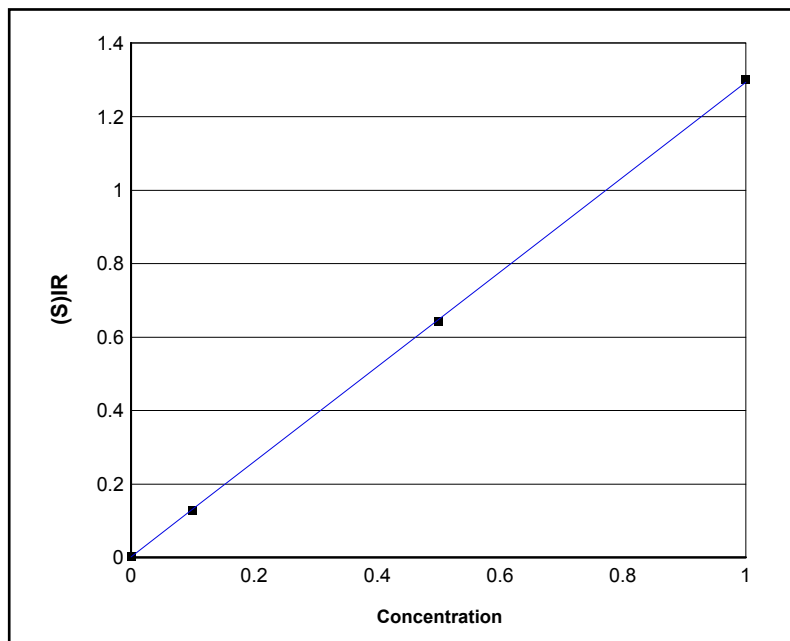
Element Name:		K	
Element Wavelength:		K 766.490 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99997	
A0 (Offset):		0.0024095	
A1 (Gain):		0.029606	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.000081827	0.000081827	0.00000	0.0024120	0.00014757	1
IC4	50.000	50.295	0.29522	0.59044	1.4914	0.0034657	1
IC2	5.0000	4.9346	-0.065382	-1.3076	0.14850	0.0013300	1
IC3	25.000	24.770	-0.22984	-0.91935	0.73575	0.0031153	1



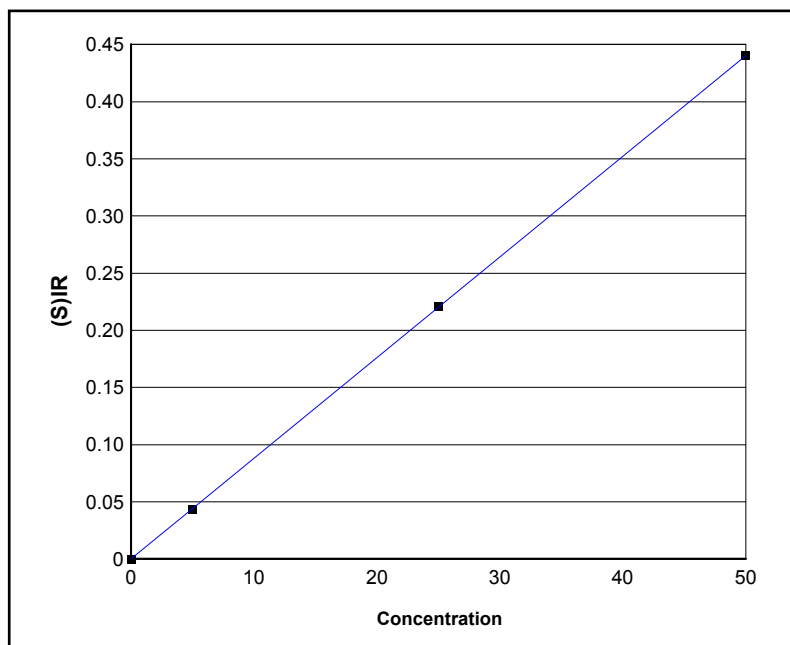
Element Name:		K	
Element Wavelength:		K 766.490 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99915	
A0 (Offset):		0.012816	
A1 (Gain):		2.9488	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.00015149	-0.00015149	0.00000	0.012370	0.00028027	1
IC4	50.000	48.497	-1.5027	-3.0054	143.02	2.3325	1
IC2	5.0000	5.0015	0.0015219	0.030438	14.761	0.017692	1
IC3	25.000	26.501	1.5012	6.0046	78.160	0.52406	1



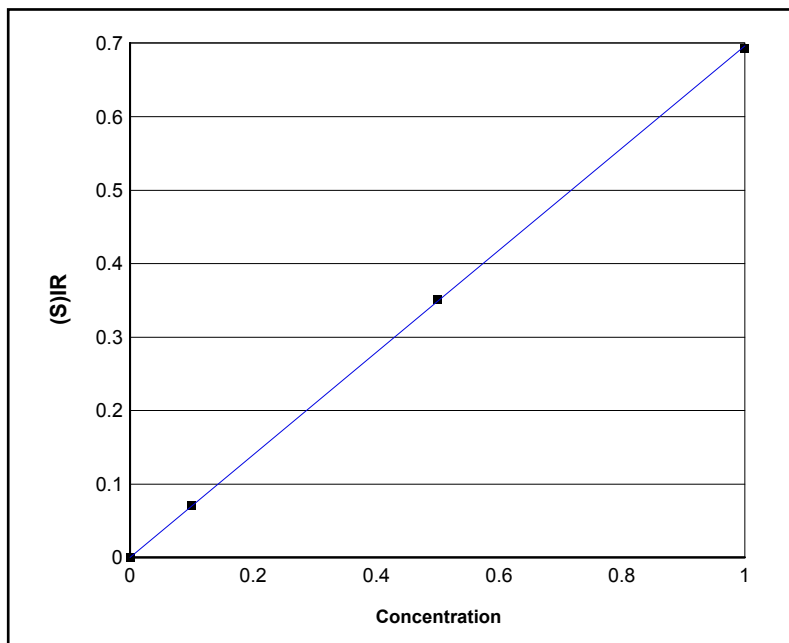
Element Name:		Li
Element Wavelength:		Li 670.784 nm
Concentration Units:		ppm
Date of Calibration:		9/11/2013 6:13:19PM
Date of Fit:		9/11/2013 6:13:19PM
Type of Fit:		Linear
Correlation:		0.99997
A0 (Offset):		0.0024930
A1 (Gain):		1.2911
A2 (Curvature):		0.00000
n (Exponent):		1.0000
Reslope		QC Normalize
Slope:	1.0000	Slope factor: 1.0000
Y Int:	0.00000	Offset: 0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000018596	0.0000018596	0.00000	0.0024954	0.00011453	1
IC2	0.10000	0.098453	-0.0015472	-1.5472	0.12961	0.00035645	1
IC3	0.50000	0.49533	-0.0046716	-0.93432	0.64203	0.00026629	1
IC4	1.0000	1.0062	0.0062188	0.62188	1.3017	0.0011085	1



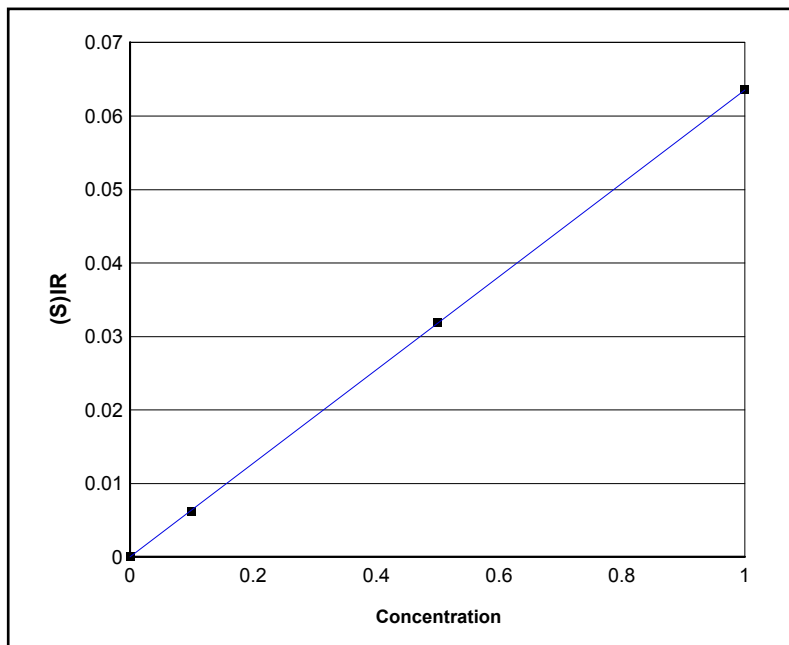
Element Name:		Mg
Element Wavelength:		Mg 279.079 nm
Concentration Units:		ppm
Date of Calibration:		9/11/2013 6:13:19PM
Date of Fit:		9/11/2013 6:13:19PM
Type of Fit:		Linear
Correlation:		1.00000
A0 (Offset):		0.0000052657
A1 (Gain):		0.0088070
A2 (Curvature):		0.00000
n (Exponent):		1.0000
Reslope		QC Normalize
Slope:	1.0000	Slope factor: 1.0000
Y Int:	0.00000	Offset: 0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.000031570	0.000031570	0.00000	0.0000055437	0.000014330	1
IC4	50.000	49.976	-0.023706	-0.047412	0.44015	0.0013186	1
IC2	5.0000	4.9576	-0.042426	-0.84852	0.043666	0.00011761	1
IC3	25.000	25.066	0.066132	0.26453	0.22076	0.0000024107	1



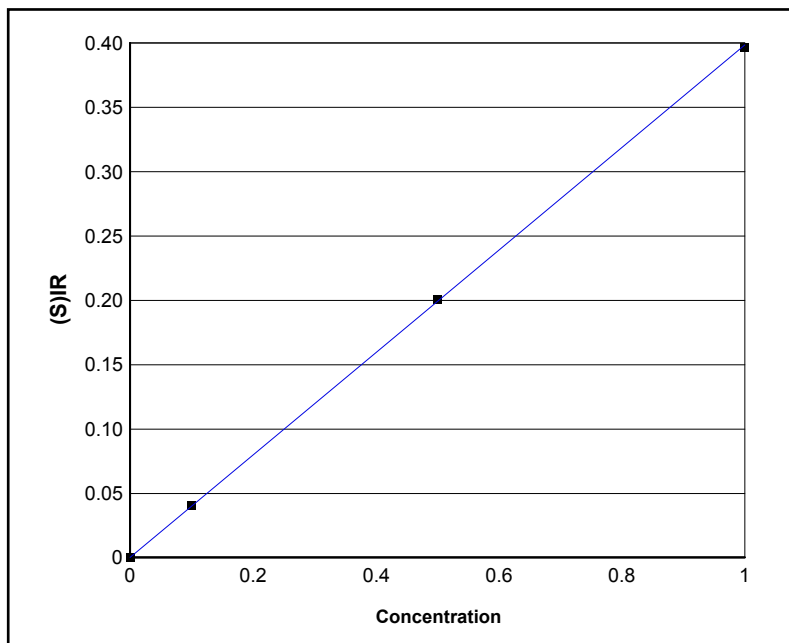
Element Name:		Mn	
Element Wavelength:		Mn 257.610 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99998	
A0 (Offset):		0.00010617	
A1 (Gain):		0.69634	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000017230	-0.0000017230	0.00000	0.00010497	0.000018641	1
IC4	1.0000	0.99485	-0.0051505	-0.51505	0.69286	0.0020854	1
IC2	0.10000	0.10151	0.0015100	1.5100	0.070792	0.000097406	1
IC3	0.50000	0.50364	0.0036406	0.72811	0.35081	0.00034240	1



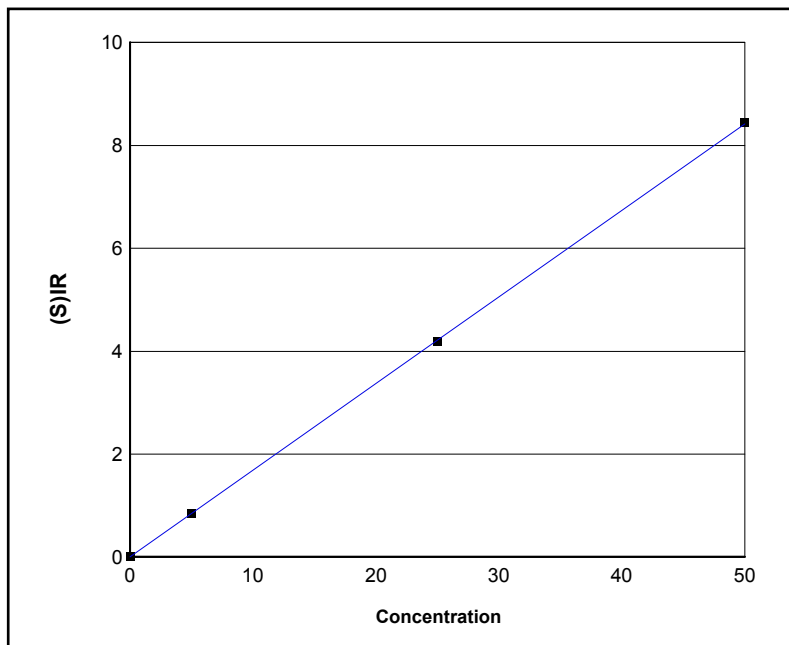
Element Name:		Mn	
Element Wavelength:		Mn 257.610 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99998	
A0 (Offset):		0.000012771	
A1 (Gain):		0.063519	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000022421	0.0000022421	0.00000	0.000012914	0.000010144	1
IC4	1.0000	1.0016	0.0016249	0.16249	0.063635	0.00011954	1
IC2	0.10000	0.097400	-0.0025996	-2.5996	0.0061996	0.000033511	1
IC3	0.50000	0.50097	0.00097464	0.19493	0.031834	0.000073213	1



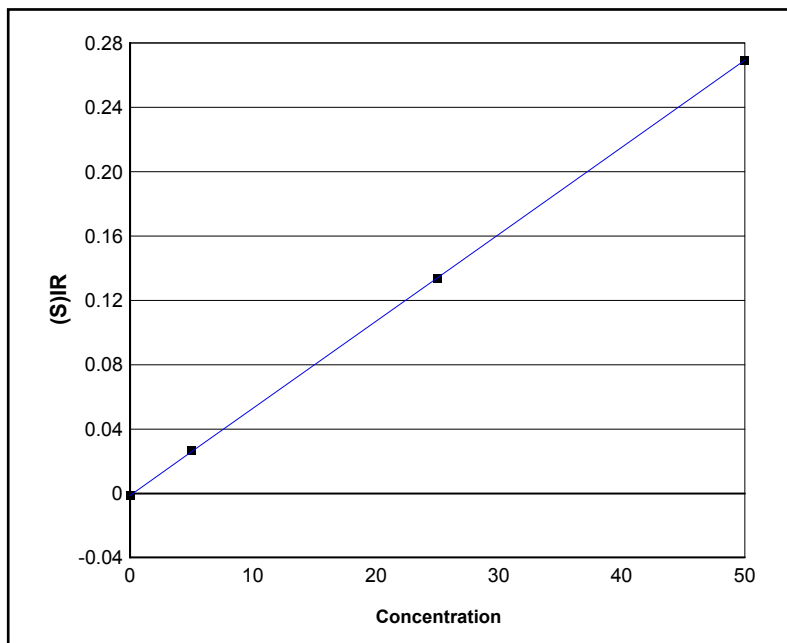
Element Name:		Mo	
Element Wavelength:		Mo 202.030 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99998	
A0 (Offset):		0.000067194	
A1 (Gain):		0.39856	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000011164	-0.0000011164	0.00000	0.000066749	0.000085584	1
IC4	1.0000	0.99524	-0.0047556	-0.47556	0.39673	0.00024032	1
IC2	0.10000	0.10080	0.00080108	0.80108	0.040243	0.000050121	1
IC3	0.50000	0.50395	0.0039545	0.79090	0.20092	0.00063122	1



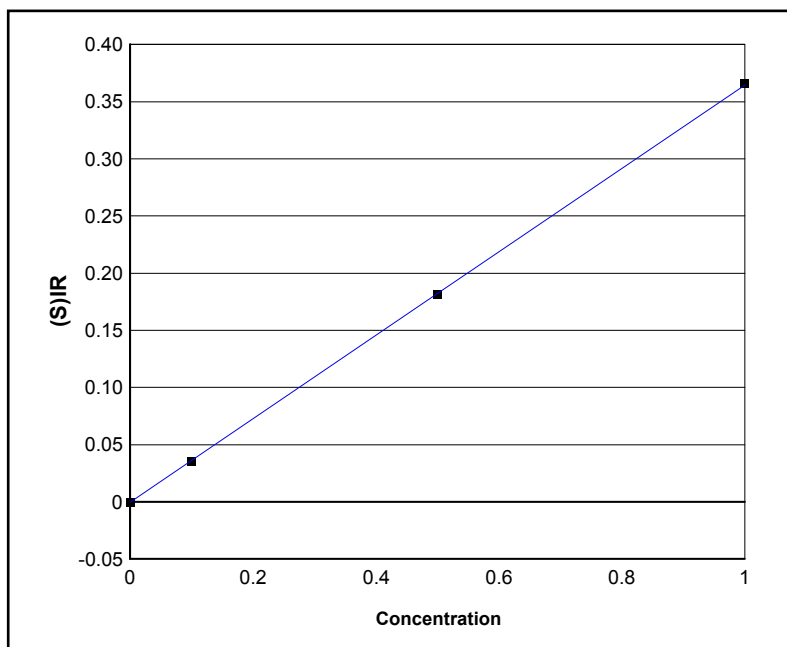
Element Name:		Na	
Element Wavelength:		Na 589.592 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99999	
A0 (Offset):		0.0074566	
A1 (Gain):		0.16820	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.000061702	0.000061702	0.00000	0.0074670	0.00030110	1
IC4	50.000	50.168	0.16824	0.33649	8.4455	0.013824	1
IC2	5.0000	4.9439	-0.056096	-1.1219	0.83900	0.0030874	1
IC3	25.000	24.888	-0.11215	-0.44859	4.1935	0.0039837	1



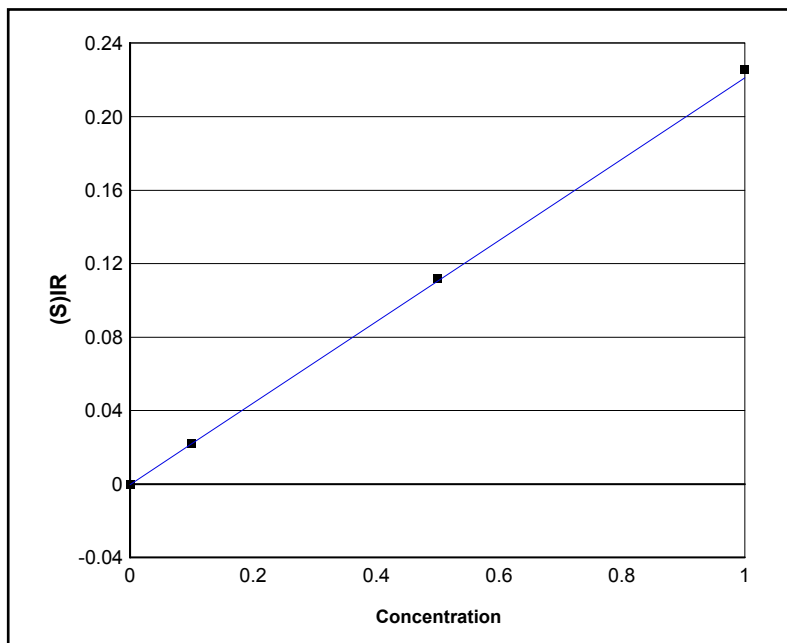
Element Name:		Na
Element Wavelength:		Na 818.326 nm
Concentration Units:		ppm
Date of Calibration:		9/11/2013 6:13:19PM
Date of Fit:		9/11/2013 6:13:19PM
Type of Fit:		Linear
Correlation:		0.99994
A0 (Offset):		-0.0012460
A1 (Gain):		0.0054139
A2 (Curvature):		0.00000
n (Exponent):		1.0000
Reslope		QC Normalize
Slope:	1.0000	Slope factor: 1.0000
Y Int:	0.00000	Offset: 0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.00016772	-0.00016772	0.00000	-0.0012470	0.00052880	1
IC4	50.000	49.935	-0.065260	-0.13052	0.26910	0.000053710	1
IC2	5.0000	5.2015	0.20149	4.0298	0.026914	0.00082568	1
IC3	25.000	24.864	-0.13623	-0.54491	0.13336	0.000054051	1



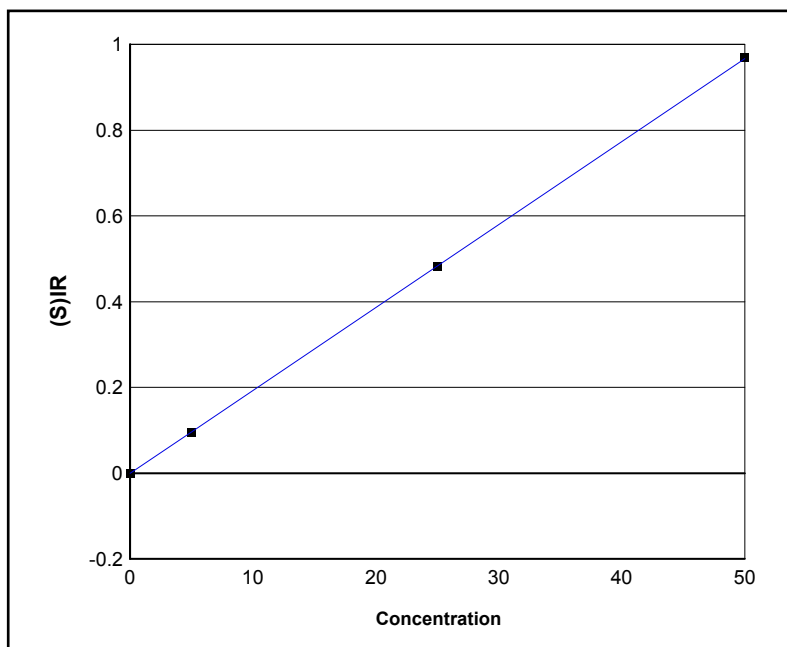
Element Name:		Ni
Element Wavelength:		Ni 231.604 nm
Concentration Units:		ppm
Date of Calibration:		9/11/2013 6:13:19PM
Date of Fit:		9/11/2013 6:13:19PM
Type of Fit:		Linear
Correlation:		0.99998
A0 (Offset):		-0.00023132
A1 (Gain):		0.36460
A2 (Curvature):		0.00000
n (Exponent):		1.0000
Reslope		QC Normalize
Slope:	1.0000	Slope factor: 1.0000
Y Int:	0.00000	Offset: 0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000018492	0.0000018492	0.00000	-0.00023065	0.00016526	1
IC4	1.0000	1.0036	0.0035620	0.35620	0.36567	0.00011208	1
IC2	0.10000	0.098134	-0.0018663	-1.8663	0.035548	0.000072500	1
IC3	0.50000	0.49830	-0.0016957	-0.33914	0.18145	0.00076908	1



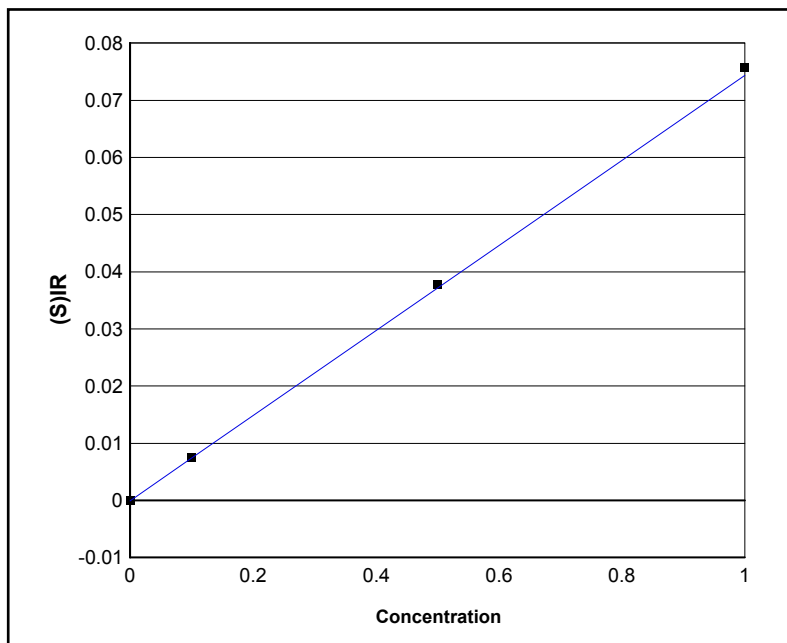
Element Name:		Pb	
Element Wavelength:		Pb 220.353 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99999	
A0 (Offset):		-0.00028962	
A1 (Gain):		0.22152	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000012236	0.0000012236	0.00000	-0.00028935	0.00012534	1
IC4	1.0000	1.0028	0.0027784	0.27784	0.22595	0.00047748	1
IC2	0.10000	0.098818	-0.0011822	-1.1822	0.022011	0.00014947	1
IC3	0.50000	0.49840	-0.0015962	-0.31923	0.11217	0.00060990	1



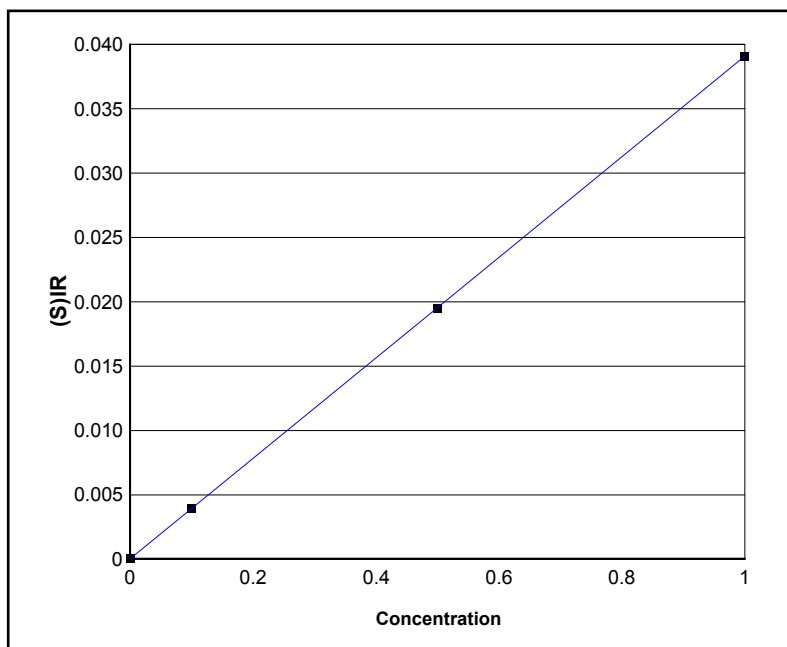
Element Name:		S	
Element Wavelength:		S 182.034 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		1.0000	
A0 (Offset):		-0.0004816	
A1 (Gain):		0.01935	
A2 (Curvature):		0.0000	
n (Exponent):		1.000	
Reslope		QC Normalize	
Slope:	1.000	Slope factor:	1.000
Y Int:	0.0000	Offset:	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.0000	0.00008974	0.00008974	0.0000	-0.0004799	0.00006333	1
IC2	5.000	4.905	-0.09484	-1.897	0.09445	0.0001516	1
IC3	25.00	24.96	-0.04381	-0.1752	0.4825	0.001638	1
IC4	50.00	50.14	0.1386	0.2773	0.9699	0.000001391	1



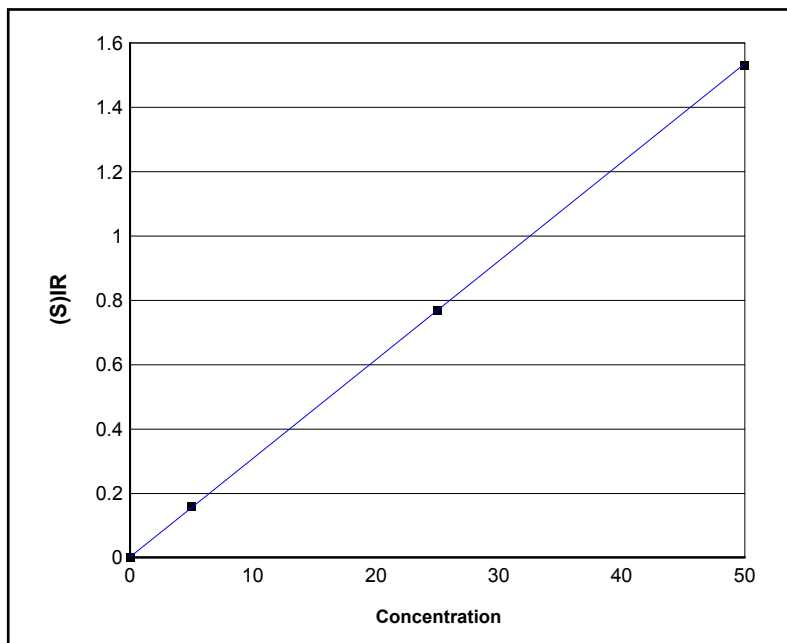
Element Name:		Sb	
Element Wavelength:		Sb 206.833 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		1.00000	
A0 (Offset):		-0.000050150	
A1 (Gain):		0.074394	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)/IR	Stddev	Emphasis
IC1	0.00000	0.0000003343	0.0000003343	0.00000	-0.000050126	0.00015021	1
IC4	1.0000	1.0014	0.0013622	0.13622	0.075775	0.00015672	1
IC2	0.10000	0.099752	-0.00024759	-0.24759	0.0075038	0.00017328	1
IC3	0.50000	0.49889	-0.0011146	-0.22292	0.037729	0.00015251	1



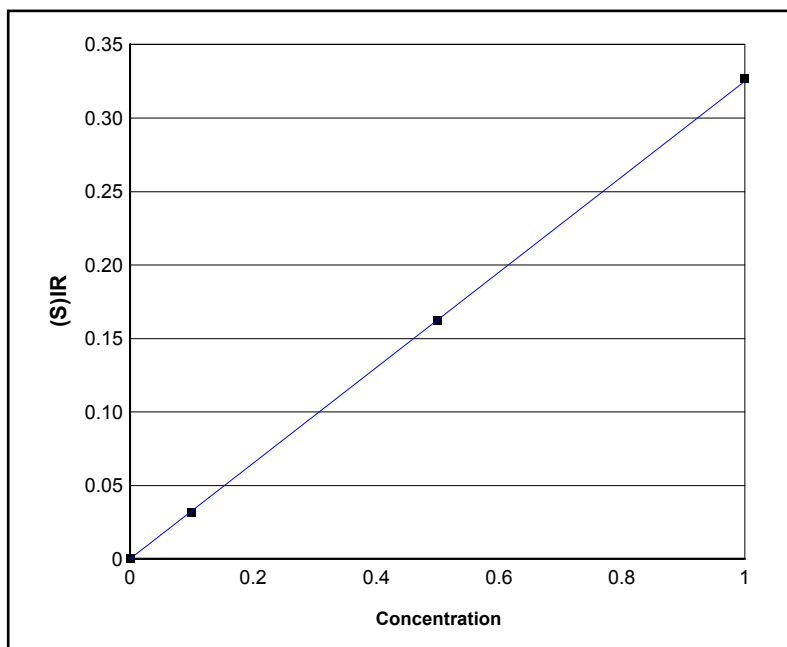
Element Name:		Se	
Element Wavelength:		Se 196.090 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		1.00000	
A0 (Offset):		0.000010608	
A1 (Gain):		0.039075	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)/IR	Stddev	Emphasis
IC1	0.00000	0.0000005247	0.0000005247	0.00000	0.000010629	0.000054061	1
IC4	1.0000	1.0016	0.0015816	0.15816	0.039108	0.00015286	1
IC2	0.10000	0.099542	-0.00045818	-0.45818	0.0038963	0.00019310	1
IC3	0.50000	0.49888	-0.0011235	-0.22469	0.019485	0.00011501	1



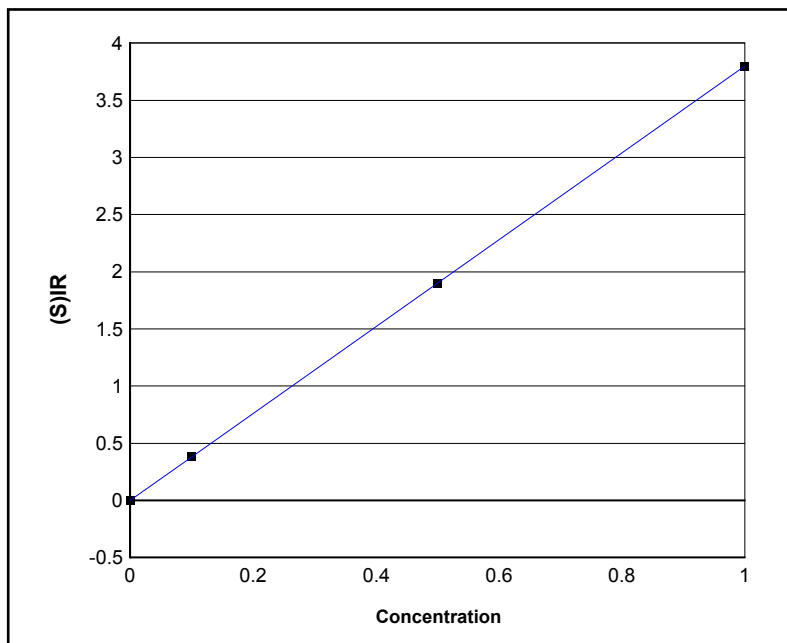
Element Name:		Si	
Element Wavelength:		Si 288.158 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99997	
A0 (Offset):		0.0016753	
A1 (Gain):		0.030684	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	-0.00012736	-0.00012736	0.00000	0.0016713	0.00023458	1
IC2	5.0000	5.1443	0.14428	2.8856	0.15952	0.00030330	1
IC3	25.000	24.975	-0.024927	-0.099709	0.76801	0.0014162	1
IC4	50.000	49.881	-0.11935	-0.23871	1.5322	0.0023156	1



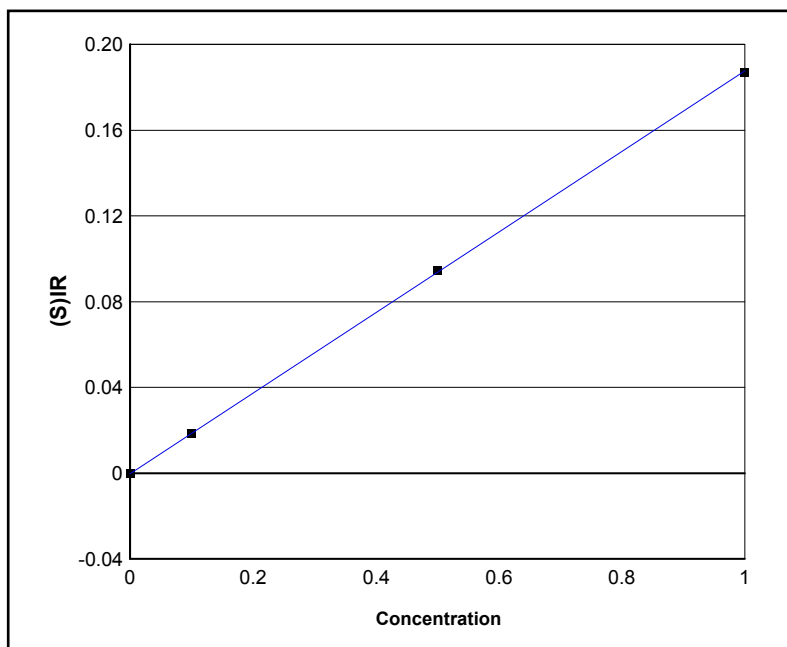
Element Name:		Sn	
Element Wavelength:		Sn 189.989 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99995	
A0 (Offset):		0.00012723	
A1 (Gain):		0.32506	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000032780	0.0000032780	0.00000	0.00012830	0.0000029425	1
IC4	1.0000	1.0046	0.0045753	0.45753	0.32668	0.00010770	1
IC2	0.10000	0.096474	-0.0035256	-3.5256	0.031487	0.00012089	1
IC3	0.50000	0.49895	-0.0010497	-0.20995	0.16232	0.00033475	1



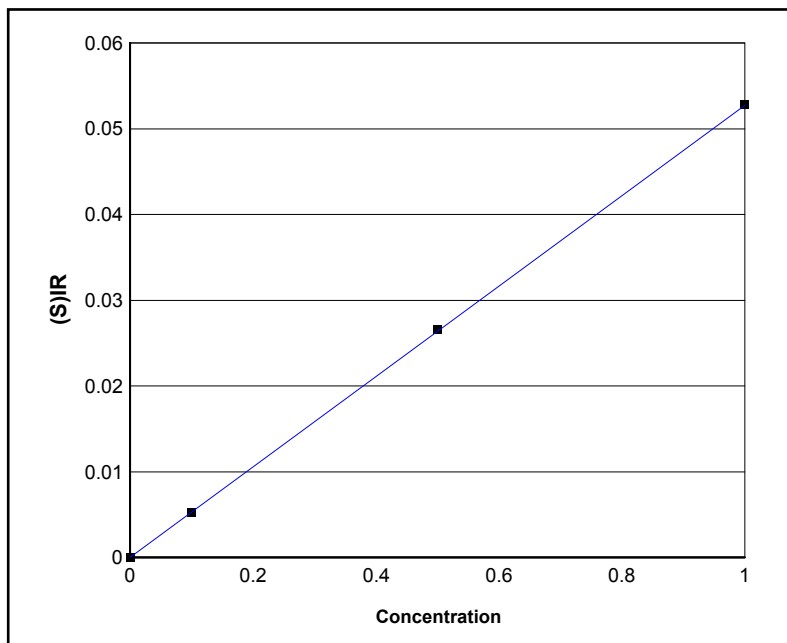
Element Name:		Sr	
Element Wavelength:		Sr 407.771 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		1.00000	
A0 (Offset):		-0.0017110	
A1 (Gain):		3.7993	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000004800	-0.0000004800	0.00000	-0.0017129	0.00027513	1
IC2	0.10000	0.10059	0.00059228	0.59228	0.38047	0.00086530	1
IC3	0.50000	0.49947	-0.00053016	-0.10603	1.8959	0.0037441	1
IC4	1.0000	0.99994	-0.000062120	-0.0062120	3.7973	0.0097993	1



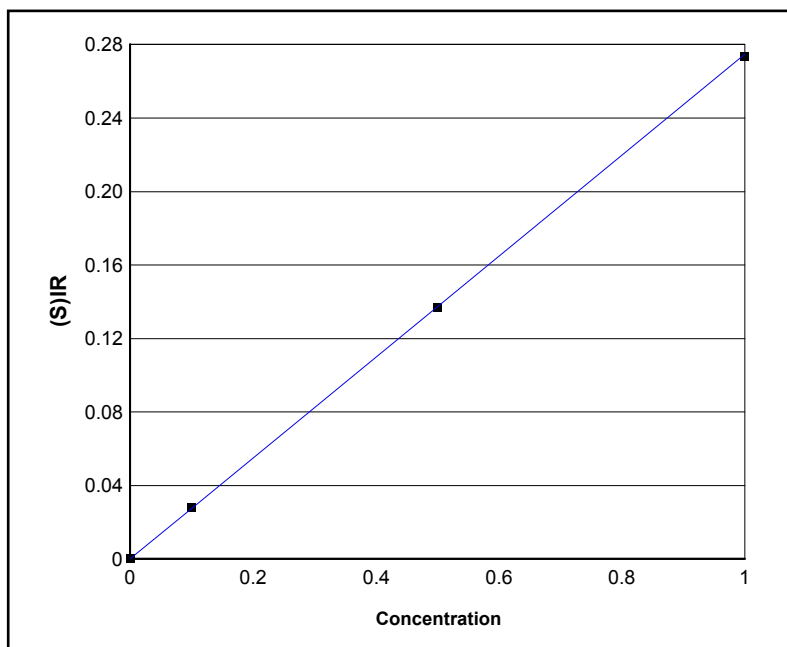
Element Name:		Ti	
Element Wavelength:		Ti 334.904 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99998	
A0 (Offset):		-0.00021741	
A1 (Gain):		0.18793	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000000321	0.0000000321	0.00000	-0.00021740	0.000050328	1
IC4	1.0000	0.99602	-0.0039751	-0.39751	0.18699	0.00010370	1
IC2	0.10000	0.099463	-0.00053704	-0.53704	0.018478	0.000042675	1
IC3	0.50000	0.50451	0.0045122	0.90243	0.094610	0.000065725	1



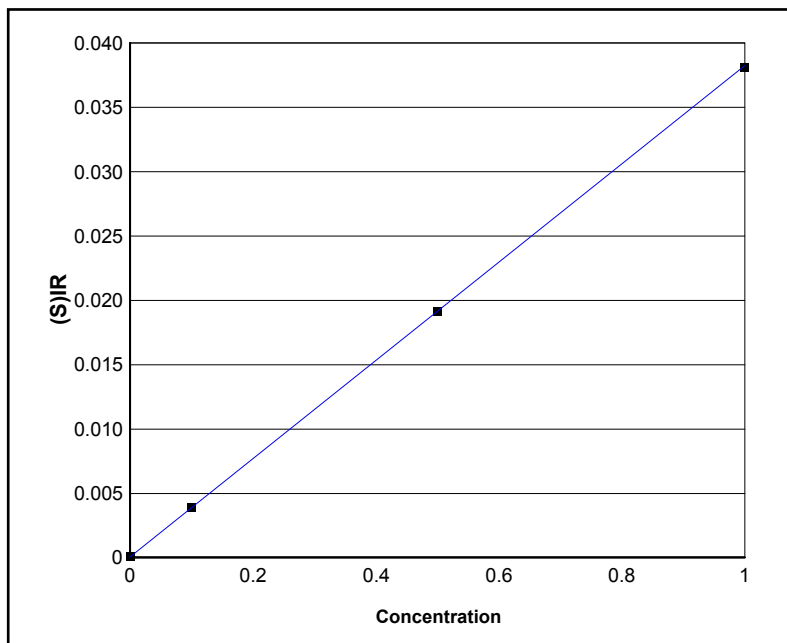
Element Name:		TI	
Element Wavelength:		TI 190.856 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99998	
A0 (Offset):		0.000019473	
A1 (Gain):		0.052728	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000013913	0.0000013913	0.00000	0.000019546	0.0000074893	1
IC4	1.0000	0.99866	-0.0013410	-0.13410	0.052869	0.00017994	1
IC2	0.10000	0.098093	-0.0019067	-1.9067	0.0052110	0.0000051299	1
IC3	0.50000	0.50325	0.0032477	0.64954	0.026651	0.00016570	1



Element Name:		V	
Element Wavelength:		V 292.402 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99999	
A0 (Offset):		0.000044925	
A1 (Gain):		0.27467	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000017028	-0.0000017028	0.00000	0.000044458	0.000041784	1
IC4	1.0000	0.99837	-0.0016318	-0.16318	0.27343	0.00018583	1
IC2	0.10000	0.10192	0.0019245	1.9245	0.027957	0.000065072	1
IC3	0.50000	0.49971	-0.00029262	-0.058523	0.13688	0.00051223	1



Element Name:		Zn	
Element Wavelength:		Zn 206.200 nm	
Concentration Units:		ppm	
Date of Calibration:		9/11/2013 6:13:19PM	
Date of Fit:		9/11/2013 6:13:19PM	
Type of Fit:		Linear	
Correlation:		0.99999	
A0 (Offset):		0.000048332	
A1 (Gain):		0.038203	
A2 (Curvature):		0.00000	
n (Exponent):		1.0000	
Reslope		QC Normalize	
Slope:	1.0000	Slope factor:	1.0000
Y Int:	0.00000	Offset:	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
IC1	0.00000	0.0000012639	-0.0000012639	0.00000	0.000048283	0.000011805	1
IC4	1.0000	0.99779	-0.0022120	-0.22120	0.038097	0.00021043	1
IC2	0.10000	0.10130	0.0013033	1.3033	0.0039114	0.0000039870	1
IC3	0.50000	0.50091	0.00090865	0.18173	0.019150	0.0000012120	1

Sample Name: IC1 Acquired: 9/11/2013 18:02:21 Type: Cal
Method: ICAP1(v445) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-0.00023	.00094	.00012	.00120	.00097	.00098	.00011	.00600	.00070	-0.00050	-0.00003	.00294
Stddev	.00001	.00037	.00008	.00005	.00073	.00004	.00018	.00005	.00009	.00004	.00002	.00002
%RSD	3.7372	39.140	65.557	3.7971	74.770	3.7494	172.84	.82094	13.241	7.6860	68.087	.63283
#1	-0.00023	.00120	.00017	.00116	.00149	.00101	-0.00002	.00603	.00077	-0.00053	-0.00002	.00295
#2	-0.00024	.00068	.00006	.00123	.00046	.00096	.00023	.00596	.00064	-0.00047	-0.00004	.00293
Elem	Fe2599	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Na8183	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00053	-0.00005	.00241	.01237	.00250	.00001	.00010	.00001	.00007	.00747	-0.0125	-0.00023
Stddev	.00020	.00001	.00015	.00028	.00011	.00001	.00002	.00001	.00009	.00030	.00053	.00017
%RSD	37.569	21.826	6.1181	2.2658	4.5895	258.50	17.759	78.549	128.22	4.0324	42.407	71.649
#1	.00039	-0.00005	.00231	.01257	.00241	.00002	.00012	.00001	.00001	.00725	-0.0162	-0.00011
#2	.00067	-0.00004	.00252	.01217	.00258	-0.00000	.00009	.00002	.00013	.00768	-0.00087	-0.00035
Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062	
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	
Avg	-0.00029	-0.0005	-0.00005	.00001	.00167	.00013	-0.00171	-0.00022	.00002	.00004	.00005	
Stddev	.00013	.0001	.00015	.00005	.00023	.00000	.00028	.00005	.00001	.00004	.00001	
%RSD	43.316	13.20	299.66	508.63	14.035	2.2935	16.063	23.150	38.316	93.985	24.450	
#1	-0.00020	-0.0004	.00006	-0.00003	.00184	.00013	-0.00152	-0.00018	.00002	.00001	.00004	
#2	-0.00038	-0.0005	-0.00016	.00005	.00151	.00013	-0.00191	-0.00025	.00001	.00007	.00006	
Int. Std.	In2306	Y_2243	Y_3600	Y_3774								
Units	Cts/S	Cts/S	Cts/S	Cts/S								
Avg	4836.8	7492.5	86968.	10450.								
Stddev	15.6	16.4	121.	42.								
%RSD	.32152	.21870	.13963	.40335								
#1	4825.8	7481.0	86882.	10480.								
#2	4847.8	7504.1	87054.	10420.								

Sample Name: IC2 Acquired: 9/11/2013 18:05:06 Type: Cal
Method: ICAP1(v445) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01230	.13359	.00538	.03299	.37274	.64487	.52388	.81275	.16979	.17525	.01071	.03343
Stddev	.00006	.00028	.00011	.00012	.00254	.00048	.00191	.00259	.00023	.00010	.00003	.00002
%RSD	.47503	.20850	2.1170	.36387	.68228	.07480	.36474	.31896	.13796	.05979	.32338	.06575
#1	.01234	.13339	.00546	.03308	.37453	.64521	.52523	.81458	.16963	.17517	.01069	.03341
#2	.01226	.13379	.00529	.03291	.37094	.64452	.52253	.81092	.16996	.17532	.01074	.03344
Elem	Fe2599	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Na8183	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.38128	.03509	.14850	14.761	.12961	.04367	.07079	.00620	.04024	.83900	.02691	.03555
Stddev	.00096	.00025	.00133	.018	.00036	.00012	.00010	.00003	.00005	.00309	.00083	.00007
%RSD	.25073	.69870	.89560	.11985	.27502	.26934	.13759	.54054	.12455	.36799	3.0678	.20395
#1	.38060	.03492	.14756	14.774	.12986	.04358	.07086	.00618	.04021	.83682	.02750	.03550
#2	.38196	.03527	.14944	14.749	.12936	.04375	.07072	.00622	.04028	.84118	.02633	.03560
Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062	
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	
Avg	.02201	.0945	.00750	.00390	.15952	.03149	.38047	.01848	.00521	.02796	.00391	
Stddev	.00015	.0002	.00017	.00019	.00030	.00012	.00087	.00004	.00001	.00007	.00000	
%RSD	.67907	.1605	2.3093	4.9561	.19013	.38393	.22743	.23096	.09844	.23276	.10193	
#1	.02212	.0943	.00763	.00376	.15931	.03140	.38108	.01845	.00521	.02800	.00391	
#2	.02191	.0946	.00738	.00403	.15974	.03157	.37986	.01851	.00521	.02791	.00391	
Int. Std.	In2306	Y_2243	Y_3600	Y_3774								
Units	Cts/S	Cts/S	Cts/S	Cts/S								
Avg	4717.2	7486.9	85352.	10241.								
Stddev	4.0	3.1	201.	31.								
%RSD	.08432	.04207	.23571	.30302								
#1	4720.0	7489.1	85209.	10219.								
#2	4714.4	7484.7	85494.	10263.								

Sample Name: IC3 Acquired: 9/11/2013 18:07:49 Type: Cal
Method: ICAP1(v445) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.06194	.64623	.02731	.16138	1.8145	3.0906	2.5651	3.9509	.85036	.89553	.05268	.15458
Stddev	.00014	.00139	.00006	.00050	.0074	.0131	.0040	.0081	.00340	.00168	.00003	.00020
%RSD	.21956	.21508	.23738	.30766	.40662	.42367	.15685	.20639	.39951	.18750	.05594	.13104
#1	.06185	.64721	.02727	.16173	1.8197	3.0813	2.5679	3.9566	.85277	.89672	.05270	.15444
#2	.06204	.64525	.02736	.16103	1.8093	3.0999	2.5622	3.9451	.84796	.89434	.05266	.15472
Elem	Fe2599	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Na8183	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.8736	.17386	.73575	78.160	.64203	.22076	.35081	.03183	.20092	4.1935	.13336	.18145
Stddev	.0027	.00135	.00312	.524	.00027	.00000	.00034	.00007	.00063	.0040	.00005	.00077
%RSD	.14290	.77781	.42342	.67049	.04148	.00109	.09760	.22998	.31416	.09500	.04053	.42385
#1	1.8755	.17482	.73355	78.531	.64222	.22076	.35106	.03178	.20137	4.1963	.13340	.18200
#2	1.8717	.17290	.73796	77.790	.64184	.22076	.35057	.03189	.20048	4.1907	.13333	.18091
Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062	
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	
Avg	.11217	.4825	.03773	.01948	.76801	.16232	1.8959	.09461	.02665	.13688	.01915	
Stddev	.00061	.0016	.00015	.00012	.00142	.00033	.0037	.00007	.00017	.00051	.00000	
%RSD	.54374	.3394	.40424	.59024	.18440	.20623	.19748	.06947	.62173	.37422	.00633	
#1	.11260	.4837	.03784	.01957	.76701	.16255	1.8986	.09456	.02677	.13652	.01915	
#2	.11174	.4814	.03762	.01940	.76901	.16208	1.8933	.09466	.02653	.13724	.01915	
Int. Std.	In2306	Y_2243	Y_3600	Y_3774								
Units	Cts/S	Cts/S	Cts/S	Cts/S								
Avg	4442.6	7344.9	83992.	10361.								
Stddev	4.4	9.6	60.	33.								
%RSD	.09886	.13075	.07182	.31490								
#1	4439.5	7338.1	84035.	10338.								
#2	4445.7	7351.7	83949.	10384.								

Sample Name: IC4 Acquired: 9/11/2013 18:10:37 Type: Cal
Method: ICAP1(v445) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.12548	1.3062	.05465	.31903	3.6754	6.1009	5.1033	7.9469	1.6876	1.8020	.10450	.30662
Stddev	.00020	.0043	.00010	.00062	.0161	.0422	.0077	.0125	.0017	.0007	.00027	.00051
%RSD	.15694	.32949	.17591	.19435	.43922	.69096	.15068	.15765	.09940	.03743	.25715	.16552
#1	.12562	1.3032	.05459	.31859	3.6640	6.0711	5.1088	7.9381	1.6864	1.8025	.10431	.30698
#2	.12535	1.3092	.05472	.31947	3.6868	6.1307	5.0979	7.9558	1.6888	1.8016	.10469	.30626
Elem	Fe2599	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Na8183	Ni2316
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.7226	.34727	1.4914	143.02	1.3017	.44015	.69286	.06364	.39673	8.4455	.26910	.36567
Stddev	.0027	.00006	.0035	2.33	.0011	.00132	.00209	.00012	.00024	.0138	.00005	.00011
%RSD	.07342	.01769	.23237	1.6308	.08516	.29957	.30098	.18785	.06058	.16368	.01996	.03065
#1	3.7207	.34722	1.4890	144.67	1.3009	.43921	.69139	.06372	.39656	8.4358	.26913	.36559
#2	3.7245	.34731	1.4939	141.37	1.3024	.44108	.69434	.06355	.39690	8.4553	.26906	.36575
Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062	
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	
Avg	.22595	.9699	.07577	.03911	1.5322	.32668	3.7973	.18699	.05287	.27343	.03810	
Stddev	.00048	.0000	.00016	.00015	.0023	.00011	.0098	.00010	.00018	.00019	.00021	
%RSD	.21132	.0001	.20682	.39087	.15113	.03297	.25806	.05546	.34036	.06796	.55236	
#1	.22561	.9699	.07589	.03900	1.5306	.32660	3.7904	.18692	.05274	.27356	.03795	
#2	.22629	.9699	.07566	.03922	1.5338	.32675	3.8043	.18707	.05300	.27330	.03825	
Int. Std.	In2306	Y_2243	Y_3600	Y_3774								
Units	Cts/S	Cts/S	Cts/S	Cts/S								
Avg	4247.3	7226.6	82023.	10165.								
Stddev	3.7	13.5	139.	4.								
%RSD	.08810	.18624	.16929	.03679								
#1	4249.9	7236.1	82122.	10162.								
#2	4244.7	7217.1	81925.	10167.								

Sample Name: ICV-1590692 Acquired: 9/11/2013 18:13:23 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.37113	18.694	.37473	.36535	.37518	.37158	18.517	.36875	.36307	.37302	.36969	18.098
Stddev	.00116	.043	.00051	.00001	.00191	.00020	.006	.00012	.00028	.00039	.00071	.017
%RSD	.31239	.22917	.13693	.00336	.51024	.05434	.03229	.03196	.07790	.10537	.19291	.09138

#1	.37031	18.725	.37510	.36536	.37383	.37144	18.521	.36883	.36287	.37274	.37019	18.087
#2	.37195	18.664	.37437	.36535	.37654	.37172	18.513	.36866	.36327	.37330	.36918	18.110

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	18.375	18.596	.36537	17.839	.37238	.36917	.36944	18.348	.36487	.36528	18.43	.37665
Stddev	.009	.021	.00072	.023	.00006	.00224	.00031	.011	.00117	.00044	.03	.00006
%RSD	.04817	.11549	.19838	.12810	.01577	.60799	.08522	.06041	.31949	.12101	.1513	.01525

#1	18.381	18.581	.36588	17.856	.37234	.36758	.36967	18.355	.36569	.36497	18.41	.37661
#2	18.369	18.611	.36486	17.823	.37242	.37076	.36922	18.340	.36404	.36560	18.45	.37669

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.36889	18.784	.37051	.36874	.37220	.36814	.36885	.37139
Stddev	.00166	.065	.00058	.00072	.00067	.00018	.00002	.00018
%RSD	.45109	.34500	.15567	.19561	.17953	.04761	.00489	.04907

#1	.37007	18.739	.37010	.36925	.37267	.36826	.36884	.37126
#2	.36772	18.830	.37092	.36823	.37172	.36802	.36886	.37152

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4519.6	7392.8	84276.	10263.
Stddev	4.8	5.4	144.	27.
%RSD	.10521	.07367	.17034	.26494
#1	4522.9	7396.6	84378.	10282.
#2	4516.2	7388.9	84175.	10244.

Sample Name: ICB-1592370 Acquired: 9/11/2013 18:16:11 Type: QC

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00030	.02749	-.00014	.00067	.00010	.00009	.00523	-.00003	.00019	.00036	.00033	.00329
Stddev	.00109	.00366	.00103	.00028	.00000	.00003	.00257	.00004	.00001	.00013	.00010	.00289
%RSD	361.10	13.302	731.41	41.918	.15619	37.292	49.160	127.07	7.9720	34.747	31.054	87.985

#1	.00108	.02490	.00059	.00087	.00010	.00007	.00341	-.00000	.00020	.00027	.00025	.00533
#2	-.00047	.03007	-.00087	.00047	.00010	.00011	.00705	-.00006	.00018	.00045	.00040	.00124

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03776	.00482	-.00011	.00037	.00011	-.00024	.00027	.00849	-.00074	-.00058	F .0032	.00021
Stddev	.00783	.00049	.00053	.00424	.00003	.00010	.00003	.00301	.00015	.00096	.0022	.00049
%RSD	20.731	10.153	479.92	1137.1	27.372	39.766	12.642	35.493	19.829	166.97	68.31	229.17

#1	.04330	.00517	-.00048	-.00262	.00009	-.00017	.00025	.01062	-.00084	-.00126	.0016	-.00013
#2	.03223	.00448	.00026	.00337	.00013	-.00031	.00030	.00636	-.00064	.00010	.0047	.00056

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00025	.01924	-.00012	.00006	.00023	-.00145	.00015	.00019
Stddev	.00164	.01119	.00015	.00000	.00036	.00016	.00027	.00050
%RSD	652.04	58.188	128.75	1.5319	153.50	10.902	186.50	260.66

#1	-.00091	.01132	-.00022	.00006	.00049	-.00134	.00034	-.00016
#2	.00141	.02715	-.00001	.00006	-.00002	-.00156	-.00005	.00054

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4841.2	7492.2	86554.	10405.
Stddev	2.3	5.3	22.	18.
%RSD	.04736	.07066	.02511	.17366
#1	4842.8	7488.4	86570.	10392.
#2	4839.5	7495.9	86539.	10418.

Sample Name: CRI-1590869 Acquired: 9/11/2013 18:19:02 Type: QC

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00283	.22574	.01125	W .02620	.00212	.00199	.54764	.00101	.00394	.00425	.01008
Stddev	.00016	.01265	.00049	.00003	.00001	.00008	.00230	.00003	.00005	.00019	.00020
%RSD	5.7107	5.6017	4.3386	.12182	.64774	4.2426	.42070	2.8783	1.3643	4.5289	2.0052

#1	.00294	.23468	.01159	.02623	.00213	.00193	.54927	.00099	.00398	.00412	.00994
#2	.00271	.21680	.01090	.02618	.00211	.00205	.54601	.00103	.00390	.00439	.01022

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.02000							
Range				30.000%							

Elem	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05239	.49663	.45436	.02908	.20032	.00305	.00300	.01019	.97484	.00954	W .00309
Stddev	.00143	.00156	.00187	.00003	.00531	.00002	.00015	.00003	.00067	.00008	.00149
%RSD	2.7262	.31376	.41254	.09980	2.6515	.56891	4.9252	.31448	.06855	.84424	48.434

#1	.05340	.49553	.45304	.02906	.19657	.00304	.00310	.01016	.97437	.00948	.00414
#2	.05138	.49773	.45569	.02910	.20408	.00306	.00289	.01021	.97531	.00959	.00203

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value											.00500
Range											-30.000%

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .2474	.01854	.01123	.58149	.01004	.00536	.00573	.01977	.00472	.01091
Stddev	.0001	.00025	.00528	.01481	.00046	.00009	.00016	.00122	.00013	.00020
%RSD	.0536	1.3304	47.010	2.5472	4.6065	1.5975	2.7144	6.1653	2.6766	1.8633

#1	.2474	.01837	.00750	.59196	.00971	.00530	.00584	.02063	.00481	.01077
#2	.2473	.01872	.01496	.57101	.01037	.00542	.00562	.01891	.00463	.01105

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0030									
Range	50.00%									

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4854.8	7552.0	86894.	10307.
Stddev	4.6	8.9	237.	2.
%RSD	.09488	.11833	.27277	.02015

#1	4858.1	7558.3	87062.	10306.
#2	4851.6	7545.7	86727.	10309.

Sample Name: ICSA-1580608 Acquired: 9/11/2013 18:21:53 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00087	530.27	.00332	-.00013	.00185	-.00012	484.15	.00110	-.00099	.00103	.00219	194.27
Stddev	.00072	1.68	.00136	.00028	.00002	.00004	.75	.00012	.00032	.00023	.00012	.05
%RSD	82.444	.31675	41.011	218.73	1.1285	29.984	.15449	10.645	32.451	22.879	5.3236	.02708

#1	.00036	529.08	.00428	-.00033	.00186	-.00015	483.62	.00102	-.00076	.00086	.00227	194.23
#2	.00137	531.45	.00235	.00007	.00183	-.00010	484.68	.00119	-.00122	.00119	.00210	194.31

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.01270	.00300	.00358	516.33	.00121	.00130	-.00085	.06364	.00045	-.00852	F -.1216	-.00187
Stddev	.02396	.00030	.00068	3.74	.00001	.00006	.00002	.00860	.00038	.00013	.0039	.00636
%RSD	188.75	9.9631	18.935	.72372	1.0632	4.2941	1.8609	13.514	83.840	1.5429	3.236	339.53

#1	-.02964	.00279	.00406	513.68	.00122	.00134	-.00087	.05756	.00071	-.00862	-.1243	-.00637
#2	.00425	.00321	.00310	518.97	.00120	.00126	-.00084	.06972	.00018	-.00843	-.1188	.00262

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0060	
Low Limit											-.0060	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.01157	.03956	.00117	.00493	.00360	-.00274	-.00029	.00375
Stddev	.00154	.00609	.00003	.00009	.00041	.00578	.00011	.00044
%RSD	13.352	15.399	2.5998	1.7650	11.455	210.75	37.928	11.632

#1	-.01048	.04387	.00115	.00487	.00390	-.00683	-.00036	.00405
#2	-.01266	.03525	.00119	.00499	.00331	.00134	-.00021	.00344

Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3613.0	6635.2	74390.	9704.4
Stddev	4.0	6.8	114.	32.2
%RSD	.11131	.10292	.15338	.33210
#1	3610.1	6630.4	74471.	9727.2
#2	3615.8	6640.1	74310.	9681.6

Sample Name: ICSAB-1567957 Acquired: 9/11/2013 18:24:52 Type: QC

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.22111	519.44	.11280	.00493	.51510	.51251	483.68	1.0299	.50512	.48735	.54211	95.115
Stddev	.00037	.05	.00003	.00069	.00008	.00059	3.09	.0018	.00033	.00085	.00241	.316
%RSD	.16955	.00951	.02683	14.066	.01467	.11530	.63934	.17590	.06461	.17526	.44472	.33259

#1	.22138	519.48	.11282	.00542	.51504	.51210	481.49	1.0312	.50489	.48796	.54381	94.892
#2	.22085	519.41	.11278	.00444	.51515	.51293	485.87	1.0286	.50535	.48675	.54040	95.339

Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04880	.01662	.53763	519.81	.47301	.50805	-.00025	.06174	.97701	.04282	F .3546	.60411
Stddev	.00454	.00040	.00135	.65	.00184	.00101	.00016	.00378	.00069	.00262	.0029	.00652
%RSD	9.2953	2.3964	.25132	.12599	.38859	.19794	63.417	6.1246	.07017	6.1145	.8250	1.0787

#1	.05201	.01690	.53667	519.35	.47171	.50734	-.00014	.05907	.97750	.04097	.3567	.60872
#2	.04559	.01634	.53858	520.28	.47431	.50876	-.00037	.06441	.97653	.04467	.3525	.59951

Check ?	None	None	None	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Pass	Chk Fail	Chk Pass
Value											.2000	
Range											20.00%	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04466	1.1002	.00114	.51431	.00316	.09719	.49817	.95862
Stddev	.00255	.0228	.00101	.00073	.00048	.00459	.00063	.00442
%RSD	5.7037	2.0713	88.707	.14269	15.349	4.7227	.12605	.46087

#1	.04286	1.1163	.00186	.51379	.00350	.10043	.49773	.95550
#2	.04646	1.0840	.00043	.51483	.00282	.09394	.49861	.96175

Check ?	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3590.8	6619.6	73694.	9579.9
Stddev	2.3	12.6	54.	5.9
%RSD	.06403	.19073	.07344	.06148

#1	3589.2	6610.7	73655.	9575.8
#2	3592.4	6628.5	73732.	9584.1

Sample Name: CCV-1580609 Acquired: 9/11/2013 18:27:48 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49538	24.750	.49583	.48238	.48869	.49012	24.517	.48836	.48570	.49557	.49053	23.906
Stddev	.00121	.004	.00201	.00042	.00015	.00104	.021	.00031	.00020	.00270	.00029	.054
%RSD	.24492	.01723	.40521	.08663	.03106	.21293	.08480	.06450	.04022	.54565	.05959	.22418

#1	.49452	24.753	.49725	.48209	.48858	.49086	24.532	.48814	.48556	.49366	.49032	23.944
#2	.49624	24.747	.49441	.48268	.48880	.48938	24.503	.48859	.48584	.49748	.49074	23.868

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.336	26.261	.48541	23.831	.49448	.49106	.48934	24.302	.48734	.48691	24.51	.50007
Stddev	.038	.117	.00100	.005	.00041	.00502	.00009	.043	.00079	.00147	.03	.00105
%RSD	.15568	.44677	.20581	.02053	.08372	1.0214	.01871	.17793	.16262	.30250	.1034	.21017

#1	24.362	26.344	.48611	23.827	.49419	.48751	.48941	24.272	.48790	.48587	24.53	.49933
#2	24.309	26.178	.48470	23.834	.49477	.49461	.48928	24.333	.48678	.48795	24.49	.50081

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49031	24.526	.49419	.48754	.49429	.49133	.49023	.49419
Stddev	.00383	.001	.00080	.00079	.00150	.00118	.00218	.00726
%RSD	.78181	.00469	.16143	.16288	.30285	.24072	.44381	1.4699

#1	.49302	24.525	.49475	.48698	.49535	.49049	.48869	.48905
#2	.48760	24.527	.49363	.48811	.49323	.49217	.49177	.49932

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4472.9	7400.7	84283.	10335.
Stddev	1.3	2.8	350.	51.
%RSD	.02901	.03810	.41529	.49332
#1	4472.0	7402.7	84531.	10299.
#2	4473.8	7398.7	84036.	10372.

Sample Name: CCB-1592370 Acquired: 9/11/2013 18:30:35 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00080	.03346	.00067	.00047	.00009	.00009	.01196	.00013	.00023	.00043	.00002	.00704
Stddev	.00012	.01928	.00010	.00019	.00001	.00004	.00133	.00002	.00009	.00000	.00019	.00048
%RSD	14.451	57.615	14.785	39.794	9.4689	48.704	11.078	16.137	39.388	.62719	760.00	6.8255

#1	.00088	.04708	.00060	.00061	.00008	.00012	.01290	.00012	.00029	.00042	.00016	.00738
#2	.00072	.01983	.00074	.00034	.00009	.00006	.01103	.00015	.00017	.00043	-.00011	.00670

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01032	.00269	-.00033	.00893	.00007	-.00013	.00030	.00228	-.00017	-.00061	.0019	.00104
Stddev	.02074	.00031	.00024	.00118	.00003	.00031	.00008	.00518	.00033	.00003	.0016	.00067
%RSD	200.88	11.539	73.906	13.212	37.940	239.27	26.794	226.79	188.45	5.2891	79.84	63.878

#1	.02498	.00291	-.00050	.00976	.00005	.00009	.00036	.00595	-.00041	-.00058	.0030	.00057
#2	-.00434	.00247	-.00016	.00809	.00009	-.00035	.00024	-.00138	.00006	-.00063	.0008	.00151

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00136	.01642	.00004	.00019	.00019	-.00159	.00012	.00018
Stddev	.00080	.01615	.00020	.00001	.00010	.00181	.00013	.00006
%RSD	58.937	98.377	497.46	6.0873	54.443	114.00	105.33	32.341

#1	-.00193	.00500	.00018	.00018	.00026	-.00031	.00003	.00022
#2	-.00079	.02784	-.00010	.00020	.00012	-.00287	.00021	.00014

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4847.4	7520.9	86712.	10301.
Stddev	1.9	1.1	92.	15.
%RSD	.03937	.01482	.10666	.14246
#1	4848.8	7521.7	86647.	10311.
#2	4846.1	7520.1	86778.	10290.

Sample Name: MB 480-138442/1-A Acquired: 9/11/2013 18:33:25 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00061	.05038	-.00070	.00608	.00007	.00001	.06409	.00007	.00004
Stddev	.00020	.00226	.00077	.00004	.00001	.00002	.00143	.00001	.00006
%RSD	31.857	4.4901	109.75	.69196	12.878	196.68	2.2386	7.4635	137.84

#1	.00048	.04878	-.00125	.00605	.00006	.00003	.06510	.00007	.00009
#2	.00075	.05197	-.00016	.00611	.00007	-.00000	.06307	.00008	.00000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00014	.00017	.00422	.00926	.00060	-.00016	-.00025	.00001	-.00008
Stddev	.00001	.00026	.00167	.05004	.00008	.00078	.00701	.00001	.00019
%RSD	4.7260	155.05	39.444	540.46	14.005	478.21	2832.1	92.191	239.29

#1	.00014	-.00002	.00304	.04464	.00066	.00039	-.00521	.00002	-.00021
#2	.00013	.00035	.00540	-.02612	.00054	-.00072	.00471	.00000	.00005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00017	-.00848	.00001	-.00106	-.00007	.00058	-.00143	-.00020	-.00043
Stddev	.00009	.00345	.00028	.00051	.0018	.00027	.00157	.01367	.00045
%RSD	54.309	40.607	2902.5	48.744	272.1	46.882	110.13	6955.6	106.64

#1	.00023	-.01092	-.00019	-.00142	.0006	.00077	-.00254	.00947	-.00075
#2	.00010	-.00605	.00021	-.00069	-.0019	.00039	-.00032	-.00986	-.00010

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00047	.00035	-.00206	.00010	.00021
Stddev	.00001	.00039	.00255	.00012	.00006
%RSD	2.4263	113.35	123.83	119.94	26.897

#1	.00046	.00007	-.00026	.00019	.00017
#2	.00048	.00063	-.00386	.00002	.00025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4845.5	7508.0	86572.	10288.
Stddev	6.5	9.8	304.	72.
%RSD	.13342	.12989	.35118	.69745

#1	4850.1	7514.9	86787.	10237.
#2	4841.0	7501.1	86357.	10338.

Sample Name: LCS 480-138442/2-A Acquired: 9/11/2013 18:36:16 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05151	10.176	.20532	.20707	.20543	.20419	9.9600	.20394	.19934
Stddev	.00038	.001	.00018	.00083	.00077	.00014	.0071	.00012	.00020
%RSD	.73117	.01152	.08963	.39847	.37286	.06926	.07136	.05642	.10073

#1	.05124	10.177	.20519	.20648	.20489	.20429	9.9549	.20386	.19948
#2	.05178	10.175	.20545	.20765	.20598	.20409	9.9650	.20403	.19920

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20354	.20335	10.033	9.7852	10.301	.19954	10.144	.20136	.19807
Stddev	.00137	.00035	.003	.0143	.002	.00014	.029	.00078	.00161
%RSD	.67337	.17406	.02536	.14572	.01947	.07196	.28569	.38575	.81443

#1	.20257	.20310	10.031	9.7953	10.302	.19944	10.124	.20081	.19693
#2	.20451	.20360	10.035	9.7752	10.299	.19964	10.165	.20191	.19921

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20767	9.8435	.19844	.19725	F -.0042	.20128	.20311	10.144	.19448
Stddev	.00014	.0032	.00025	.00208	.0020	.00000	.00144	.013	.00059
%RSD	.06618	.03206	.12516	1.0532	46.22	.00040	.70690	.13054	.30275

#1	.20757	9.8413	.19826	.19578	-.0056	.20128	.20412	10.135	.19407
#2	.20777	9.8457	.19861	.19872	-.0028	.20128	.20209	10.154	.19490

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					11.50				
Low Limit					8.500				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.19942	.19678	.20194	.20468	.20140
Stddev	.00084	.00039	.00192	.00075	.00038
%RSD	.42158	.19618	.94850	.36618	.18853

#1	.19882	.19650	.20059	.20415	.20167
#2	.20001	.19705	.20330	.20521	.20114

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4607.3	7385.2	85724.	10419.
Stddev	5.2	2.4	91.	7.
%RSD	.11213	.03259	.10562	.06327

#1	4603.7	7386.9	85788.	10415.
#2	4611.0	7383.5	85660.	10424.

Sample Name: 480-45540-C-1-A Acquired: 9/11/2013 18:39:03 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00024	.04288	.00410	.02996	.13767	-0.00001	61.178	.00012	-0.00011
Stddev	.00024	.00591	.00178	.00013	.00065	.00008	.178	.00008	.00006
%RSD	99.842	13.794	43.518	.45032	.47418	837.05	.29177	65.020	56.890

#1	-0.00007	.04706	.00536	.03005	.13721	.00005	61.052	.00007	-0.00007
#2	-0.00041	.03869	.00284	.02986	.13813	-0.00007	61.304	.00018	-0.00016

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00072	.00266	.33996	.64383	.74421	.00460	12.915	.17664	.17401
Stddev	.00001	.00007	.00182	.00990	.00135	.00028	.028	.00047	.00095
%RSD	1.8026	2.5962	.53623	1.5373	.18090	6.0716	.21476	.26396	.54466

#1	.00071	.00271	.34125	.65083	.74516	.00480	12.895	.17631	.17468
#2	.00072	.00261	.33867	.63683	.74325	.00441	12.934	.17697	.17334

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00095	12.705	-0.00038	-0.00144	F 16.02	-0.00020	-0.00336	6.0974	.00008
Stddev	.00006	.002	.00007	.00175	.01	.00105	.00072	.0323	.00045
%RSD	6.7870	.01712	19.621	121.12	.0933	517.37	21.542	.52901	540.81

#1	.00100	12.704	-0.00032	-0.00268	16.01	.00054	-0.00284	6.0746	-0.00023
#2	.00091	12.707	-0.00043	-0.00021	16.04	-0.00094	-0.00387	6.1203	.00040

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.11341	.00057	-0.00306	.00008	.01364
Stddev	.00021	.00015	.00141	.00001	.00021
%RSD	.18132	26.992	46.015	7.6317	1.5151

#1	.11355	.00068	-0.00406	.00008	.01379
#2	.11326	.00046	-0.00207	.00009	.01350

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4510.0	7215.2	83497.	10163.
Stddev	3.8	12.6	297.	40.
%RSD	.08348	.17415	.35525	.39165

#1	4512.6	7224.1	83706.	10191.
#2	4507.3	7206.3	83287.	10135.

Sample Name: CCV Acquired: 9/11/2013 18:41:52 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50018	25.216	.49739	.48443	.49875	.49410	24.712	.49034	.48794	.49690	.49514	24.094
Stddev	.00006	.000	.00144	.00113	.00254	.00058	.036	.00160	.00125	.00026	.00017	.013
%RSD	.01146	.00132	.28941	.23249	.50946	.11819	.14735	.32692	.25699	.05316	.03415	.05458

#1	.50014	25.216	.49637	.48364	.50054	.49451	24.737	.48921	.48883	.49671	.49502	24.104
#2	.50022	25.216	.49841	.48523	.49695	.49368	24.686	.49147	.48705	.49708	.49526	24.085

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.726	26.371	.49410	23.723	.49470	.49280	.49049	24.538	.48973	.49041	24.73	.50508
Stddev	.092	.062	.00075	.060	.00083	.00168	.00259	.051	.00132	.00067	.09	.00036
%RSD	.37358	.23425	.15215	.25217	.16739	.34180	.52807	.20873	.27012	.13610	.3532	.07101

#1	24.791	26.415	.49463	23.765	.49528	.49399	.48866	24.574	.48880	.49088	24.67	.50483
#2	24.661	26.327	.49356	23.681	.49411	.49161	.49232	24.502	.49067	.48994	24.79	.50534

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48773	24.771	.49369	.49270	.49385	.49383	.49208	.49558
Stddev	.00702	.012	.00122	.00163	.00004	.00241	.00154	.00024
%RSD	1.4397	.05041	.24751	.33051	.00727	.48858	.31366	.04767

#1	.49270	24.780	.49283	.49385	.49383	.49554	.49317	.49575
#2	.48277	24.763	.49456	.49155	.49388	.49213	.49099	.49541

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4447.5	7368.6	83790.	10249.
Stddev	2.3	14.4	240.	19.
%RSD	.05209	.19525	.28658	.18262
#1	4449.1	7378.8	83620.	10262.
#2	4445.8	7358.5	83959.	10236.

Sample Name: CCB Acquired: 9/11/2013 18:44:38 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00045	.00839	-.00136	.00026	.00004	.00008	.00136	.00007	.00006	.00014	.00021	.00407
Stddev	.00066	.00525	.00014	.00001	.00002	.00000	.00041	.00004	.00005	.00018	.00003	.00122
%RSD	148.23	62.551	10.400	4.4272	51.020	4.5782	30.076	58.064	78.870	133.84	14.737	30.026

#1	.00091	.00468	-.00146	.00027	.00005	.00009	.00107	.00004	.00009	.00026	.00023	.00321
#2	-.00002	.01211	-.00126	.00025	.00003	.00008	.00165	.00009	.00003	.00001	.00019	.00494

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04275	.00232	.00014	.00130	.00002	.00015	.00018	-.01133	-.00017	-.00035	.0004	-.00171
Stddev	.02471	.00008	.00017	.00158	.00001	.00007	.00014	.00427	.00005	.00017	.0002	.00102
%RSD	57.811	3.3941	121.88	121.35	34.413	47.486	80.350	37.641	30.978	47.871	59.59	59.475

#1	.02527	.00237	.00026	.00018	.00002	.00020	.00008	-.01435	-.00013	-.00046	.0006	-.00243
#2	.06022	.00226	.00002	.00242	.00002	.00010	.00028	-.00832	-.00021	-.00023	.0002	-.00099

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00074	.01526	-.00027	.00016	.00036	-.00068	.00019	-.00039
Stddev	.00486	.00974	.00006	.00000	.00030	.00144	.00037	.00051
%RSD	655.85	63.848	23.225	1.5817	83.176	212.84	196.97	129.90

#1	.00269	.00837	-.00031	.00016	.00015	-.00169	-.00007	-.00003
#2	-.00417	.02215	-.00023	.00016	.00057	.00034	.00045	-.00075

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4823.3	7473.2	86893.	10379.
Stddev	6.7	.2	26.	36.
%RSD	.13947	.00257	.02984	.34555
#1	4818.5	7473.0	86911.	10404.
#2	4828.0	7473.3	86874.	10354.

Sample Name: 480-45540-C-2-A Acquired: 9/11/2013 18:47:30 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00045	.03816	.00839	.02960	.13429	.00000	59.431	.00005	-.00002
Stddev	.00001	.02337	.00129	.00011	.00004	.00008	.358	.00002	.00006
%RSD	2.1818	61.241	15.414	.37342	.02784	1719.9	.60182	43.232	294.94

#1	.00045	.02164	.00747	.02967	.13432	.00006	59.683	.00004	.00002
#2	.00046	.05468	.00930	.02952	.13427	-.00005	59.178	.00007	-.00006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00067	.00008	.30713	.53833	.66070	.00497	12.444	.17212	.16993
Stddev	.00023	.00017	.00419	.02692	.00170	.00025	.018	.00061	.00118
%RSD	33.798	211.22	1.3629	5.0006	.25702	5.1069	.14324	.35710	.69500

#1	.00051	-.00004	.31009	.55737	.66190	.00515	12.431	.17169	.17076
#2	.00083	.00020	.30417	.51930	.65950	.00479	12.457	.17256	.16909

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00082	10.407	.00046	-.00214	F 15.73	-.00168	-.00025	5.8976	-.00060
Stddev	.00014	.050	.00023	.00122	.03	.00122	.00050	.0049	.00030
%RSD	16.928	.48202	49.945	57.121	.1780	72.463	203.28	.08352	50.607

#1	.00092	10.442	.00062	-.00128	15.71	-.00254	-.00060	5.9011	-.00039
#2	.00072	10.371	.00030	-.00301	15.75	-.00082	.00011	5.8942	-.00082

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.11011	.00070	-.00200	.00033	.00157
Stddev	.00058	.00045	.00167	.00050	.00003
%RSD	.52268	63.938	83.404	150.04	2.0365

#1	.11051	.00038	-.00082	.00068	.00159
#2	.10970	.00101	-.00318	-.00002	.00155

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4514.7	7208.7	83162.	10188.
Stddev	.6	4.8	43.	43.
%RSD	.01250	.06669	.05139	.42111

#1	4514.3	7205.3	83132.	10158.
#2	4515.1	7212.1	83193.	10219.

Sample Name: 480-45540-C-2-A SD@5 Acquired: 9/11/2013 18:50:17 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00035	.03351	.00277	.00574	.02735	-.00002	12.071	.00013	.00008
Stddev	.00081	.00810	.00090	.00023	.00013	.00003	.027	.00004	.00008
%RSD	229.78	24.186	32.347	4.0798	.46638	153.79	.22436	34.892	98.255

#1	-.00022	.03924	.00340	.00591	.02744	-.00003	12.052	.00016	.00002
#2	.00093	.02778	.00213	.00558	.02726	.00000	12.090	.00010	.00013

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00009	-.00017	.06091	.12683	.11115	.00160	2.5401	.03555	.03476
Stddev	.00006	.00015	.00288	.00778	.00012	.00022	.0080	.00024	.00037
%RSD	73.246	86.696	4.7358	6.1374	.10593	13.630	.31458	.66882	1.0613

#1	.00004	-.00007	.05887	.13233	.11123	.00176	2.5345	.03538	.03502
#2	.00013	-.00028	.06295	.12132	.11106	.00145	2.5458	.03572	.03450

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00026	2.0780	-.00006	-.00058	3.129	-.00112	.00016	1.2156	-.00013
Stddev	.00027	.0032	.00001	.00038	.004	.00007	.00116	.0124	.00014
%RSD	100.93	.15658	21.925	65.240	.1282	6.5209	741.28	1.0205	106.27

#1	.00008	2.0803	-.00007	-.00084	3.132	-.00118	-.00066	1.2068	-.00023
#2	.00045	2.0757	-.00005	-.00031	3.127	-.00107	.00097	1.2244	-.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.02233	.00036	-.00195	.00007	.00027
Stddev	.00003	.00025	.00046	.00011	.00006
%RSD	.12575	68.942	23.397	156.30	22.166

#1	.02231	.00019	-.00227	-.00001	.00023
#2	.02235	.00054	-.00163	.00015	.00031

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4741.8	7402.4	85533.	10299.
Stddev	9.4	6.7	6.	25.
%RSD	.19904	.09042	.00757	.24106
#1	4748.5	7407.1	85528.	10281.
#2	4735.1	7397.7	85537.	10317.

Sample Name: 480-45540-C-2-A PDS Acquired: 9/11/2013 18:53:05 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05378	10.900	.22593	.24191	.34403	.21752	67.917	.21015	.20733
Stddev	.00014	.039	.00038	.00017	.00088	.00054	.350	.00005	.00007
%RSD	.26892	.35645	.16814	.07129	.25511	.25038	.51463	.02143	.03537

#1	.05367	10.873	.22620	.24203	.34341	.21714	67.669	.21012	.20738
#2	.05388	10.928	.22566	.24179	.34465	.21791	68.164	.21018	.20728

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20886	.21218	10.669	11.010	13.112	.22096	22.573	.37320	.37407
Stddev	.00065	.00037	.025	.042	.087	.00056	.021	.00000	.00148
%RSD	.31280	.17391	.23110	.38398	.66363	.25177	.09339	.00094	.39482

#1	.20840	.21192	10.652	10.980	13.174	.22136	22.558	.37319	.37512
#2	.20933	.21244	10.687	11.040	13.051	.22057	22.588	.37320	.37303

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21071	20.607	.20569	.20541	F 15.26	.21078	.20954	16.530	.19924
Stddev	.00003	.023	.00002	.00034	.03	.00042	.00040	.086	.00006
%RSD	.01428	.11334	.01094	.16336	.2039	.19840	.18868	.52306	.02904

#1	.21073	20.590	.20570	.20518	15.28	.21108	.20982	16.469	.19928
#2	.21069	20.623	.20567	.20565	15.23	.21049	.20926	16.591	.19920

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.31398	.20460	.21348	.21354	.20507
Stddev	.00064	.00050	.00205	.00116	.00140
%RSD	.20339	.24458	.96128	.54470	.68397

#1	.31353	.20495	.21203	.21272	.20407
#2	.31443	.20424	.21494	.21436	.20606

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4383.7	7222.6	82895.	10144.
Stddev	2.0	2.0	136.	70.
%RSD	.04479	.02797	.16374	.69323

#1	4385.1	7221.2	82991.	10194.
#2	4382.4	7224.0	82799.	10094.

Sample Name: 480-45540-C-2-B MS Acquired: 9/11/2013 18:55:50 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05175	10.345	.21348	.23102	.33486	.20667	68.751	.20262	.19948
Stddev	.00037	.010	.00119	.00065	.00069	.00020	.210	.00020	.00003
%RSD	.70571	.09379	.55591	.28181	.20464	.09799	.30610	.09797	.01670

#1	.05201	10.338	.21264	.23056	.33534	.20682	68.900	.20248	.19951
#2	.05149	10.352	.21432	.23148	.33437	.20653	68.602	.20276	.19946

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20226	.20367	10.291	10.563	12.320	.20935	22.340	.36816	.36853
Stddev	.00119	.00023	.003	.031	.041	.00114	.029	.00009	.00039
%RSD	.58963	.11079	.03334	.29733	.32889	.54331	.12920	.02397	.10507

#1	.20141	.20383	10.294	10.541	12.291	.21015	22.320	.36810	.36825
#2	.20310	.20351	10.289	10.586	12.349	.20855	22.360	.36823	.36880

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20436	20.359	.19731	.19780	F 15.61	.20470	.20257	16.132	.19567
Stddev	.00039	.036	.00012	.00012	.01	.00048	.00187	.069	.00092
%RSD	.19189	.17790	.06007	.05879	.0439	.23381	.92299	.42654	.47136

#1	.20463	20.333	.19723	.19772	15.61	.20504	.20389	16.180	.19502
#2	.20408	20.384	.19740	.19788	15.62	.20436	.20125	16.083	.19632

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.30953	.19435	.20137	.20382	.19606
Stddev	.00083	.00036	.00016	.00022	.00160
%RSD	.26731	.18274	.07811	.10633	.81378

#1	.31012	.19460	.20126	.20366	.19494
#2	.30895	.19410	.20148	.20397	.19719

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4395.7	7250.6	83249.	10186.
Stddev	1.8	2.3	120.	9.
%RSD	.04140	.03228	.14375	.08865

#1	4394.4	7252.3	83333.	10180.
#2	4397.0	7249.0	83164.	10193.

Sample Name: 480-45540-C-2-C MSD Acquired: 9/11/2013 18:58:37 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05335	10.617	.21682	.23471	.33923	.21024	69.747	.20553	.20179
Stddev	.00054	.045	.00211	.00093	.00014	.00125	.438	.00006	.00029
%RSD	1.0112	.42029	.97126	.39669	.04128	.59336	.62789	.02992	.14307

#1	.05373	10.648	.21831	.23405	.33933	.21112	70.057	.20549	.20200
#2	.05297	10.585	.21533	.23537	.33913	.20936	69.437	.20557	.20159

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20496	.20671	10.480	10.823	12.655	.21341	22.554	.37203	.36982
Stddev	.00063	.00033	.073	.027	.272	.00022	.050	.00017	.00009
%RSD	.30967	.15819	.69666	.24969	2.1517	.10311	.22373	.04653	.02538

#1	.20541	.20648	10.532	10.843	12.848	.21326	22.518	.37191	.36989
#2	.20451	.20694	10.429	10.804	12.463	.21357	22.589	.37215	.36975

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20857	20.747	.19946	.19850	F 15.70	.20564	.20529	16.367	.19901
Stddev	.00047	.141	.00007	.00273	.06	.00069	.00327	.106	.00045
%RSD	.22463	.67909	.03742	1.3777	.3960	.33725	1.5921	.64569	.22557

#1	.20824	20.847	.19941	.20044	15.65	.20515	.20760	16.442	.19870
#2	.20890	20.647	.19951	.19657	15.74	.20613	.20297	16.293	.19933

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.31564	.19610	.20463	.20599	.19687
Stddev	.00149	.00045	.00291	.00068	.00005
%RSD	.47091	.23093	1.4230	.32951	.02475

#1	.31669	.19578	.20257	.20647	.19683
#2	.31458	.19642	.20669	.20551	.19690

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4389.4	7234.3	83304.	10121.
Stddev	5.0	8.6	37.	66.
%RSD	.11442	.11925	.04495	.65350

#1	4392.9	7240.4	83330.	10074.
#2	4385.8	7228.2	83277.	10168.

Sample Name: 480-45540-C-3-A Acquired: 9/11/2013 19:01:22 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00033	.05965	.00724	.03930	.13419	-0.0001	59.057	.00001	.00001
Stddev	.00085	.00443	.00161	.00019	.00025	.00005	.125	.00004	.00010
%RSD	254.67	7.4216	22.232	.47819	.18643	401.91	.21163	597.20	678.23

#1	.00093	.05652	.00838	.03943	.13437	-0.0005	58.969	.00003	-.00006
#2	-.00027	.06278	.00610	.03917	.13401	.00002	59.145	-.00002	.00008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00044	.00558	.31034	.65364	.67474	.00483	12.437	.17181	.16964
Stddev	.00012	.00039	.00046	.00530	.00242	.00040	.005	.00025	.00059
%RSD	27.642	7.0745	.14848	.81122	.35889	8.2555	.03822	.14748	.34518

#1	.00053	.00530	.31001	.64989	.67303	.00455	12.433	.17199	.17005
#2	.00035	.00586	.31066	.65739	.67646	.00512	12.440	.17163	.16922

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00074	14.102	-0.00010	-0.00169	F 15.74	-0.00264	-0.00033	5.8938	-0.00024
Stddev	.00027	.003	.00009	.00118	.07	.00092	.00345	.0179	.00008
%RSD	36.260	.02122	85.910	69.459	.4541	34.969	1049.5	.30420	34.575

#1	.00093	14.104	-0.00004	-0.00253	15.69	-0.00329	-0.00277	5.8811	-0.00030
#2	.00055	14.099	-0.00017	-0.00086	15.79	-0.00198	.00211	5.9065	-0.00018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.11005	.00092	-0.00170	.00007	.00518
Stddev	.00036	.00019	.00015	.00020	.00050
%RSD	.32395	20.581	8.5563	267.32	9.5727

#1	.10980	.00078	-0.00160	-0.00007	.00553
#2	.11030	.00105	-0.00180	.00022	.00483

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4515.0	7227.2	83174.	10163.
Stddev	2.1	3.8	338.	6.
%RSD	.04705	.05294	.40663	.06271

#1	4516.5	7229.9	82935.	10167.
#2	4513.5	7224.5	83413.	10158.

Sample Name: 480-45527-A-3-A Acquired: 9/11/2013 19:04:10 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0023	35.656	.02927	.68357	.50133	.00015	108.06	.00400	.06359
Stddev	.00037	.112	.00287	.00035	.00134	.00004	.58	.00003	.00025
%RSD	163.78	.31432	9.7898	.05097	.26815	25.212	.54053	.79319	.38646

#1	-0.00049	35.577	.03129	.68332	.50038	.00018	107.64	.00402	.06376
#2	.00004	35.735	.02724	.68381	.50228	.00012	108.47	.00398	.06341

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.24564	.60464	6.0191	99.616	81.997	.01290	1.6635	.27325	.28726
Stddev	.00136	.00212	.0290	.244	1.966	.00103	.0126	.00042	.00040
%RSD	.55330	.35014	.48195	.24479	2.3973	8.0201	.75781	.15318	.14072

#1	.24468	.60315	5.9986	99.443	83.387	.01363	1.6724	.27354	.28697
#2	.24660	.60614	6.0396	99.788	80.607	.01217	1.6546	.27295	.28754

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08739	408.69	.03137	.20418	F 44.19	.01730	.00537	18.699	.04093
Stddev	.00004	.28	.00041	.00035	.06	.00007	.00299	.009	.00020
%RSD	.04214	.06891	1.3039	.17215	.1387	.37834	55.687	.04552	.49592

#1	.08741	408.49	.03108	.20443	44.24	.01725	.00749	18.693	.04079
#2	.08736	408.89	.03166	.20393	44.15	.01734	.00326	18.705	.04107

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.35706	.15274	-.00264	.02256	1.6804
Stddev	.00042	.00001	.00089	.00009	.0070
%RSD	.11802	.00496	33.671	.37944	.41537

#1	.35677	.15274	-.00327	.02262	1.6853
#2	.35736	.15275	-.00201	.02250	1.6754

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3870.8	6795.0	76162.	9984.0
Stddev	1.6	8.9	120.	37.8
%RSD	.04187	.13056	.15724	.37883

#1	3869.6	6801.2	76078.	10011.
#2	3871.9	6788.7	76247.	9957.2

Sample Name: 480-45524-E-1-A Acquired: 9/11/2013 19:07:08 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00069	.15132	.05055	10.626	.01582	.00000	59.484	.00064	.02745
Stddev	.00096	.00963	.00114	.004	.00003	.00003	.121	.00001	.00005
%RSD	138.42	6.3607	2.2643	.03573	.22075	2615.3	.20327	1.7262	.19893

#1	.00001	.15813	.05136	10.623	.01580	.00002	59.569	.00063	.02748
#2	.00137	.14452	.04974	10.628	.01585	-.00002	59.398	.00065	.02741

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09559	.31810	1.2527	245.04	116.09	.10804	96.996	.42828	.47556
Stddev	.00055	.00074	.0062	.20	5.31	.00111	.140	.00054	.00158
%RSD	.57670	.23227	.49643	.08009	4.5760	1.0309	.14474	.12503	.33274

#1	.09520	.31758	1.2483	245.17	119.84	.10882	96.897	.42790	.47444
#2	.09598	.31862	1.2571	244.90	112.33	.10725	97.095	.42866	.47667

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06548	1545.5	.56773	.01904	F 74.78	.01633	.00216	11.266	.00588
Stddev	.00012	2.8	.00085	.00043	.09	.00036	.00196	.032	.00023
%RSD	.17656	.18417	.14936	2.2333	.1203	2.1770	90.733	.28353	3.8611

#1	.06540	1547.5	.56713	.01874	74.72	.01658	.00078	11.244	.00572
#2	.06556	1543.5	.56833	.01934	74.84	.01608	.00355	11.289	.00604

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.2819	.00630	-.00002	.02864	.15405
Stddev	.0013	.00011	.00043	.00024	.00031
%RSD	.10250	1.6994	2012.1	.83603	.19996

#1	1.2809	.00638	-.00032	.02847	.15383
#2	1.2828	.00623	.00028	.02881	.15426

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3548.9	6530.6	71362.	9897.2
Stddev	3.0	11.4	160.	38.9
%RSD	.08551	.17450	.22444	.39321

#1	3551.1	6538.6	71475.	9869.7
#2	3546.8	6522.5	71249.	9924.7

Sample Name: MB 480-138405/1-A Acquired: 9/11/2013 19:10:04 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00040	.03110	-.00122	.01227	.00038	.00008	.10056	.00019	.00008
Stddev	.00050	.00354	.00046	.00119	.00005	.00002	.00404	.00014	.00012
%RSD	125.12	11.384	37.912	9.6745	13.571	20.340	4.0193	73.315	143.47

#1	.00075	.02860	-.00154	.01311	.00041	.00007	.10342	.00028	.00017
#2	.00005	.03360	-.00089	.01143	.00034	.00009	.09770	.00009	-.00000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00021	.00000	.01439	.31280	.09032	.00065	.03363	.00108	.00106
Stddev	.00021	.00030	.00246	.00516	.00106	.00046	.00644	.00001	.00013
%RSD	99.203	76389.	17.078	1.6485	1.1695	70.553	19.164	.77686	12.334

#1	.00006	.00021	.01613	.31644	.09106	.00032	.03818	.00108	.00115
#2	.00036	-.00021	.01265	.30915	.08957	.00097	.02907	.00107	.00097

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00035	.42729	.00005	.00003	F .0390	-.00104	-.00006	.18838	F .04663
Stddev	.00007	.01003	.00008	.00159	.0035	.00116	.00060	.00518	.00015
%RSD	21.465	2.3483	165.63	4822.5	9.000	112.03	997.51	2.7471	.32135

#1	.00029	.43439	-.00001	.00116	.0415	-.00186	.00036	.18472	.04653
#2	.00040	.42020	.00010	-.00109	.0366	-.00022	-.00048	.19204	.04674

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					.0030				.01000
Low Limit					-.0040				-.01000

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00064	.00066	-.00331	.00014	F .01123
Stddev	.00001	.00004	.00103	.00027	.00044
%RSD	1.4255	6.4942	31.204	195.83	3.8876

#1	.00063	.00069	-.00258	.00033	.01093
#2	.00065	.00063	-.00404	-.00005	.01154

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					.01000
Low Limit					-.00300

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4696.4	7286.5	84751.	9956.0
Stddev	8.2	15.3	79.	112.7
%RSD	.17559	.20993	.09350	1.1316

#1	4690.5	7275.7	84695.	9876.3
#2	4702.2	7297.3	84807.	10036.

Sample Name: LCSSRM 480-138405/2- Acquired: 9/11/2013 19:12:55 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.56864	75.510	1.7620	1.0362	1.3510	.97533	56.408	.56382	1.6165
Stddev	.00110	.157	.0014	.0019	.0038	.00037	.183	.00037	.0028
%RSD	.19278	.20836	.08083	.17899	.28259	.03831	.32390	.06602	.17344

#1	.56942	75.398	1.7610	1.0375	1.3483	.97506	56.279	.56356	1.6145
#2	.56787	75.621	1.7630	1.0348	1.3537	.97559	56.537	.56408	1.6185

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1610	.77311	103.30	25.592	23.952	.07195	22.134	2.5549	2.5306
Stddev	.0011	.00072	.06	.078	.341	.00006	.024	.0042	.0096
%RSD	.09623	.09344	.05497	.30340	1.4219	.08275	.11046	.16252	.37853

#1	1.1618	.77362	103.34	25.537	23.711	.07199	22.117	2.5520	2.5373
#2	1.1602	.77260	103.26	25.647	24.193	.07191	22.152	2.5579	2.5238

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.41949	4.2247	1.2735	1.3454	2.196	.72664	.83553	25.765	1.4662
Stddev	.00031	.0075	.0003	.0066	.013	.00080	.00068	.062	.0024
%RSD	.07508	.17844	.02062	.48730	.6025	.10963	.08187	.24256	.16103

#1	.41926	4.2300	1.2737	1.3408	2.186	.72720	.83504	25.720	1.4645
#2	.41971	4.2194	1.2733	1.3500	2.205	.72607	.83601	25.809	1.4678

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0432	2.7842	1.4208	.94825	1.8481
Stddev	.0040	.0023	.0074	.00378	.0040
%RSD	.38864	.08414	.51861	.39846	.21597

#1	1.0403	2.7826	1.4156	.95093	1.8509
#2	1.0460	2.7859	1.4260	.94558	1.8453

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4240.7	7440.4	85152.	10344.
Stddev	.7	9.2	388.	15.
%RSD	.01642	.12327	.45582	.14976

#1	4241.2	7433.9	84878.	10333.
#2	4240.2	7446.9	85427.	10355.

Sample Name: CCV Acquired: 9/11/2013 19:15:41 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49605	25.605	.49622	.48441	.50785	.50135	25.250	.48339	.48514	.49743	.49042	24.554
Stddev	.00246	.299	.00056	.00022	.00398	.00501	.316	.00102	.00039	.00001	.00110	.230
%RSD	.49666	1.1684	.11236	.04625	.78424	1.0002	1.2506	.21165	.08049	.00115	.22383	.93492

#1	.49431	25.816	.49662	.48425	.51067	.50490	25.473	.48411	.48542	.49743	.48965	24.716
#2	.49780	25.393	.49583	.48457	.50504	.49781	25.027	.48267	.48486	.49744	.49120	24.392

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.006	25.411	.49560	23.764	.49680	.48578	.48321	24.594	.48875	.48917	24.78	.50263
Stddev	.152	.429	.00199	.049	.00073	.00210	.00062	.199	.00001	.00098	.00	.00123
%RSD	.60966	1.6898	.40111	.20650	.14612	.43319	.12903	.80815	.00144	.19955	.0041	.24526

#1	25.114	25.715	.49701	23.799	.49732	.48430	.48365	24.735	.48874	.48848	24.78	.50176
#2	24.898	25.108	.49420	23.730	.49629	.48727	.48277	24.454	.48875	.48986	24.78	.50350

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48260	25.228	.48627	.49614	.48753	.49325	.48523	.49362
Stddev	.00145	.251	.00061	.00294	.00185	.00011	.00087	.00090
%RSD	.30025	.99367	.12597	.59185	.37947	.02280	.17862	.18184

#1	.48158	25.406	.48584	.49822	.48623	.49317	.48462	.49299
#2	.48363	25.051	.48670	.49406	.48884	.49333	.48585	.49426

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4482.8	7468.9	84801.	10087.
Stddev	6.5	7.0	108.	129.
%RSD	.14411	.09318	.12693	1.2824
#1	4487.3	7473.8	84877.	9995.2
#2	4478.2	7464.0	84725.	10178.

Sample Name: CCB Acquired: 9/11/2013 19:18:28 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00047	.01659	-.00023	.00318	.00017	.00014	.01432	.00006	.00017	.00018	-.00030	.01226
Stddev	.00012	.01446	.00054	.00043	.00001	.00005	.00140	.00006	.00011	.00028	.00004	.00069
%RSD	25.787	87.111	232.68	13.649	6.1532	35.504	9.7467	103.01	64.996	160.15	13.895	5.6520

#1	.00038	.02682	.00015	.00349	.00018	.00017	.01333	.00010	.00009	.00038	-.00033	.01275
#2	.00055	.00637	-.00061	.00287	.00017	.00010	.01531	.00002	.00024	-.00002	-.00027	.01177

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08996	.01271	.00004	.00999	.00024	.00051	.00027	.05091	-.00010	-.00036	F .0094	.00026
Stddev	.03975	.00011	.00082	.00181	.00000	.00021	.00022	.00395	.00006	.00111	.0013	.00085
%RSD	44.187	.87888	1915.2	18.141	1.1232	40.370	81.175	7.7630	61.203	306.65	13.44	324.82

#1	.06186	.01279	.00062	.00871	.00024	.00066	.00042	.05370	-.00006	-.00114	.0103	-.00034
#2	.11807	.01263	-.00054	.01128	.00025	.00037	.00011	.04812	-.00014	.00042	.0085	.00086

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00086	.02498	.00005	.00018	.00026	-.00003	.00025	.00014
Stddev	.00140	.00496	.00029	.00003	.00002	.00118	.00012	.00036
%RSD	163.60	19.856	607.94	15.123	9.0633	4722.0	46.532	252.19

#1	-.00185	.02147	.00025	.00020	.00028	-.00086	.00034	.00040
#2	.00013	.02848	-.00016	.00016	.00024	.00081	.00017	-.00011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4850.9	7557.4	87369.	10263.
Stddev	7.3	3.8	209.	37.
%RSD	.15041	.05068	.23976	.36071
#1	4845.8	7554.7	87517.	10237.
#2	4856.1	7560.1	87221.	10289.

Sample Name: 460-62711-D-3-A Acquired: 9/11/2013 19:21:20 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00038	183.71	.04381	.01708	.94114	.00523	22.578	.00091	.10187
Stddev	.00083	1.31	.00038	.00062	.00725	.00006	.139	.00002	.00029
%RSD	221.84	.71262	.85771	3.6386	.77027	1.1812	.61377	1.7499	.28024

#1	-0.00097	184.63	.04354	.01752	.94627	.00527	22.676	.00090	.10167
#2	.00021	182.78	.04407	.01664	.93602	.00518	22.480	.00092	.10207

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.41261	.28303	206.26	9.1029	10.267	.10809	50.051	3.6044	3.6570
Stddev	.00040	.00210	1.01	.0525	.075	.00025	.302	.0047	.0002
%RSD	.09684	.74112	.49026	.57718	.73078	.23151	.60393	.13156	.00505

#1	.41232	.28451	206.98	9.1400	10.320	.10827	49.837	3.6010	3.6569
#2	.41289	.28155	205.55	9.0657	10.214	.10792	50.265	3.6077	3.6571

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00080	1.4154	.40771	.04834	.1996	-.00269	-.00156	27.040	.03181
Stddev	.00000	.0004	.00057	.00080	.0014	.00078	.00077	.112	.00001
%RSD	.25310	.02936	.13974	1.6479	.6999	28.858	49.255	.41257	.04696

#1	.00080	1.4157	.40811	.04890	.2006	-.00214	-.00102	27.119	.03180
#2	.00080	1.4151	.40731	.04777	.1986	-.00324	-.00210	26.961	.03182

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.24009	8.7458	-.00176	.45767	.41726
Stddev	.00151	.0103	.00017	.00324	.00354
%RSD	.62980	.11751	9.8770	.70788	.84826

#1	.24116	8.7385	-.00188	.45996	.41475
#2	.23902	8.7531	-.00163	.45538	.41976

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4189.3	7386.3	83092.	10080.
Stddev	8.8	14.0	359.	91.
%RSD	.20916	.19014	.43164	.90611

#1	4183.1	7376.4	82839.	10015.
#2	4195.5	7396.3	83346.	10145.

Sample Name: 460-62711-C-10-A Acquired: 9/11/2013 19:24:19 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00065	159.28	.03842	.03279	.89982	.00535	53.223	.00195	.12122
Stddev	.00022	.38	.00297	.00028	.00552	.00001	.109	.00005	.00010
%RSD	34.408	.24047	7.7439	.84658	.61301	.21935	.20530	2.5981	.08095

#1	.00049	159.55	.03631	.03260	.90372	.00536	53.300	.00192	.12115
#2	.00081	159.01	.04052	.03299	.89592	.00535	53.145	.00199	.12129

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.44352	.34014	241.72	15.150	16.926	.15200	103.35	4.4058	4.5160
Stddev	.00092	.00014	1.06	.034	.218	.00013	.32	.0340	.0010
%RSD	.20844	.04152	.43737	.22125	1.2861	.08591	.30873	.77148	.02144

#1	.44418	.34004	242.47	15.174	17.080	.15209	103.13	4.3818	4.5166
#2	.44287	.34024	240.97	15.126	16.772	.15190	103.58	4.4299	4.5153

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00081	4.4614	.57140	.04367	3.268	-.00300	-.00124	16.596	.02507
Stddev	.00015	.0045	.00143	.00089	.002	.00027	.00002	.112	.00007
%RSD	18.134	.10020	.24975	2.0296	.0568	8.8970	1.3992	.67677	.28388

#1	.00070	4.4583	.57241	.04304	3.269	-.00319	-.00122	16.675	.02512
#2	.00091	4.4646	.57039	.04429	3.266	-.00281	-.00125	16.516	.02502

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.36371	9.9408	-.00413	.48377	.52528
Stddev	.00140	.0088	.00188	.00017	.00137
%RSD	.38540	.08818	45.561	.03539	.26088

#1	.36470	9.9346	-.00280	.48365	.52431
#2	.36272	9.9470	-.00547	.48389	.52624

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4090.5	7375.6	83985.	10281.
Stddev	5.0	9.9	47.	40.
%RSD	.12218	.13357	.05582	.38476

#1	4087.0	7368.6	83952.	10253.
#2	4094.1	7382.5	84018.	10309.

Sample Name: 480-45443-B-1-A Acquired: 9/11/2013 19:27:17 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00025	.20393	.21813	.04300	.00867	.00005	1.8059	-.00018	.00048
Stddev	.00015	.00076	.00152	.00038	.00001	.00001	.0006	.00016	.00005
%RSD	58.478	.37403	.69673	.87994	.08295	26.272	.03477	89.508	11.051

#1	.00015	.20339	.21705	.04274	.00866	.00004	1.8054	-.00007	.00044
#2	.00035	.20447	.21920	.04327	.00867	.00006	1.8063	-.00030	.00052

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00232	.06707	.57142	2.5844	2.1943	.00199	1.8910	.04424	.04161
Stddev	.00063	.00008	.00254	.0004	.0029	.00036	.0089	.00014	.00013
%RSD	27.069	.11904	.44422	.01652	.13402	18.186	.46960	.31455	.31580

#1	.00188	.06701	.57322	2.5847	2.1922	.00224	1.8973	.04434	.04170
#2	.00277	.06712	.56963	2.5841	2.1964	.00173	1.8848	.04414	.04151

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00050	.27338	.00178	-.00073	F 10.77	.12446	-.00008	1.2809	.02500
Stddev	.00021	.00205	.00052	.00102	.00	.00114	.00026	.0121	.00027
%RSD	43.203	.75035	28.945	140.36	.0309	.91601	306.83	.94241	1.0974

#1	.00065	.27483	.00142	-.00001	10.77	.12366	-.00027	1.2895	.02480
#2	.00034	.27193	.00215	-.00145	10.77	.12527	.00010	1.2724	.02519

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04138	.00839	-.00256	.00093	.01260
Stddev	.00007	.00037	.00059	.00004	.00051
%RSD	.16125	4.4067	23.197	4.2565	4.0869

#1	.04143	.00813	-.00214	.00090	.01296
#2	.04134	.00865	-.00298	.00096	.01224

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4773.7	7443.2	85901.	10077.
Stddev	3.2	10.3	217.	1.
%RSD	.06670	.13903	.25231	.01380

#1	4771.5	7435.9	85747.	10076.
#2	4776.0	7450.5	86054.	10078.

Sample Name: 480-45443-B-1-A SD@5 Acquired: 9/11/2013 19:30:04 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00030	.07780	.04500	.00958	.00189	.00007	.39153	.00004	.00024
Stddev	.00037	.00959	.00012	.00016	.00002	.00004	.00264	.00005	.00005
%RSD	124.18	12.322	.27567	1.6377	.81045	58.775	.67470	127.83	20.277

#1	.00004	.07102	.04508	.00969	.00190	.00010	.39340	.00007	.00027
#2	.00056	.08458	.04491	.00947	.00187	.00004	.38966	.00000	.00020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00063	.01342	.13428	.57739	.45687	.00059	.39895	.00944	.00874
Stddev	.00035	.00011	.00158	.01762	.00589	.00006	.00206	.00004	.00025
%RSD	55.580	.82752	1.1775	3.0515	1.2897	10.075	.51713	.39086	2.8420

#1	.00038	.01350	.13540	.56493	.45270	.00055	.39749	.00946	.00891
#2	.00088	.01334	.13316	.58985	.46103	.00063	.40041	.00941	.00856

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00007	.04592	.00018	-.00044	2.247	.02584	.00022	.26058	.00491
Stddev	.00007	.00664	.00013	.00000	.003	.00098	.00319	.01772	.00005
%RSD	93.869	14.469	73.410	.83898	.1528	3.8108	1422.7	6.8003	.99495

#1	.00012	.04122	.00028	-.00044	2.249	.02514	-.00203	.27311	.00494
#2	.00002	.05061	.00009	-.00044	2.244	.02654	.00248	.24805	.00487

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00856	.00242	-.00240	.00036	.00288
Stddev	.00015	.00001	.00058	.00019	.00014
%RSD	1.7739	.39879	24.036	53.103	4.8560

#1	.00867	.00243	-.00199	.00022	.00278
#2	.00846	.00242	-.00280	.00049	.00298

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4880.0	7631.8	87690.	10266.
Stddev	5.8	12.7	234.	40.
%RSD	.11885	.16580	.26640	.38508

#1	4884.1	7640.8	87524.	10294.
#2	4875.9	7622.9	87855.	10238.

Sample Name: 480-45443-B-1-A PDS Acquired: 9/11/2013 19:32:55 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10503	21.424	.63514	.45408	.42771	.43013	22.371	.40456	.41171
Stddev	.00025	.089	.00018	.00007	.00104	.00025	.050	.00046	.00036
%RSD	.23350	.41338	.02843	.01461	.24216	.05698	.22541	.11330	.08844

#1	.10520	21.361	.63527	.45403	.42845	.43030	22.335	.40488	.41196
#2	.10486	21.487	.63502	.45413	.42698	.42995	22.406	.40423	.41145

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.41578	.48188	21.188	22.917	22.623	.42526	22.206	.45186	.44696
Stddev	.00009	.00137	.007	.004	.041	.00121	.013	.00094	.00030
%RSD	.02131	.28473	.03155	.01899	.17932	.28371	.05689	.20765	.06658

#1	.41571	.48285	21.183	22.920	22.651	.42612	22.197	.45120	.44718
#2	.41584	.48091	21.193	22.914	22.594	.42441	22.215	.45252	.44675

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.41288	20.507	.41049	.40524	F 10.42	.52029	.41717	22.322	.41002
Stddev	.00042	.011	.00102	.00152	.05	.00023	.00193	.042	.00100
%RSD	.10066	.05188	.24935	.37442	.4637	.04422	.46360	.18790	.24320

#1	.41259	20.514	.41121	.40631	10.46	.52045	.41853	22.351	.40932
#2	.41318	20.499	.40976	.40416	10.39	.52013	.41580	22.292	.41073

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.44878	.40431	.41523	.42122	.41263
Stddev	.00014	.00095	.00047	.00059	.00050
%RSD	.03096	.23444	.11413	.14070	.12144

#1	.44888	.40364	.41490	.42164	.41228
#2	.44869	.40498	.41557	.42081	.41299

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4412.3	7293.9	82879.	10048.
Stddev	8.3	6.4	215.	3.
%RSD	.18766	.08717	.25957	.02861

#1	4406.5	7289.4	82727.	10046.
#2	4418.2	7298.4	83031.	10050.

Sample Name: 480-45443-B-1-B MS Acquired: 9/11/2013 19:35:43 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09742	20.463	.51060	.41651	.41020	.40243	21.883	.38235	.38954
Stddev	.00011	.076	.00223	.00093	.00237	.00125	.023	.00073	.00034
%RSD	.10905	.36917	.43590	.22264	.57800	.31019	.10711	.18979	.08621

#1	.09750	20.516	.51217	.41716	.40853	.40332	21.866	.38286	.38978
#2	.09735	20.409	.50902	.41585	.41188	.40155	21.899	.38184	.38931

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.40748	.46768	19.958	23.177	21.975	.39817	21.466	.44062	.43418
Stddev	.00044	.00181	.001	.058	.185	.00260	.076	.00164	.00269
%RSD	.10883	.38775	.00726	.24866	.84224	.65186	.35514	.37301	.62047

#1	.40717	.46896	19.957	23.218	22.106	.40000	21.412	.43946	.43609
#2	.40780	.46640	19.959	23.137	21.844	.39633	21.520	.44179	.43228

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.35044	19.676	.38851	.38064	6.606	.53802	.38733	20.876	.39322
Stddev	.00113	.006	.00035	.00076	.011	.00059	.00125	.092	.00026
%RSD	.32151	.03139	.09100	.20080	.1678	.11048	.32370	.44250	.06733

#1	.34964	19.680	.38876	.38118	6.614	.53844	.38822	20.941	.39340
#2	.35124	19.672	.38826	.38010	6.599	.53760	.38645	20.811	.39303

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.43967	.38078	.32126	.39555	.39540
Stddev	.00190	.00301	.00351	.00195	.00015
%RSD	.43198	.79165	1.0911	.49339	.03684

#1	.44101	.37864	.32374	.39693	.39550
#2	.43833	.38291	.31878	.39417	.39530

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4410.1	7271.4	82664.	10006.
Stddev	12.2	20.1	92.	34.
%RSD	.27711	.27632	.11147	.33649
#1	4401.5	7257.2	82599.	10029.
#2	4418.8	7285.7	82729.	9981.9

Sample Name: 480-45443-B-1-C MSD Acquired: 9/11/2013 19:38:31 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09524	21.974	.55445	.42391	.41443	.38953	20.975	.36870	.37697
Stddev	.00139	.088	.00017	.00044	.00022	.00108	.082	.00090	.00113
%RSD	1.4643	.40183	.03073	.10263	.05192	.27709	.39314	.24528	.29858

#1	.09622	21.912	.55433	.42422	.41428	.38876	20.916	.36934	.37776
#2	.09425	22.037	.55457	.42361	.41458	.39029	21.033	.36806	.37617

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.38665	.46310	20.305	21.985	20.504	.39593	21.121	.55276	.54478
Stddev	.00040	.00102	.084	.024	.037	.00051	.077	.00069	.00195
%RSD	.10406	.22016	.41582	.10972	.18014	.13007	.36308	.12446	.35723

#1	.38636	.46382	20.245	21.968	20.478	.39556	21.067	.55227	.54616
#2	.38693	.46238	20.365	22.002	20.530	.39629	21.175	.55325	.54341

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.33470	19.351	.37900	.36753	9.290	.57564	.37144	21.149	.38229
Stddev	.00180	.036	.00161	.00010	.013	.00361	.00297	.062	.00290
%RSD	.53720	.18766	.42396	.02732	.1415	.62730	.79905	.29362	.75752

#1	.33597	19.325	.38014	.36760	9.300	.57819	.37354	21.105	.38434
#2	.33343	19.377	.37787	.36746	9.281	.57309	.36934	21.193	.38024

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.46388	.38778	.30725	.38112	.37987
Stddev	.00043	.00124	.00258	.00071	.00280
%RSD	.09283	.31893	.84047	.18678	.73820

#1	.46418	.38866	.30907	.38163	.37789
#2	.46357	.38691	.30542	.38062	.38185

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4428.3	7308.7	83556.	10062.
Stddev	12.3	22.4	253.	45.
%RSD	.27796	.30652	.30251	.44508

#1	4419.6	7292.9	83377.	10094.
#2	4437.0	7324.5	83734.	10031.

Sample Name: 480-45443-B-2-A Acquired: 9/11/2013 19:41:19 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00545	33.652	.03897	.48906	2.1265	.02954	61.566	.00070	.07385
Stddev	.00012	.097	.00110	.00149	.0073	.00004	.220	.00000	.00016
%RSD	2.1152	.28678	2.8254	.30434	.34429	.12991	.35657	.45305	.22088

#1	.00553	33.584	.03819	.49011	2.1213	.02951	61.411	.00070	.07396
#2	.00537	33.721	.03975	.48801	2.1317	.02957	61.722	.00070	.07373

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04920	.12847	33.309	5.4862	5.6358	.07908	7.7140	F 22.257	F 24.700
Stddev	.00054	.00047	.090	.0105	.0139	.00143	.0331	.113	.102
%RSD	1.0941	.36507	.27168	.19080	.24635	1.8121	.42849	.50693	.41452

#1	.04958	.12881	33.245	5.4788	5.6259	.07807	7.6906	22.177	24.627
#2	.04882	.12814	33.373	5.4936	5.6456	.08010	7.7373	22.337	24.772

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit								15.000	15.000
Low Limit								-.00300	-.00300

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00119	4.1779	.15726	.04620	6.122	.00041	.00977	20.800	.01815
Stddev	.00014	.0098	.00053	.00108	.019	.00095	.00426	.025	.00060
%RSD	11.881	.23404	.33606	2.3371	.3074	230.54	43.620	.12217	3.3227

#1	.00129	4.1709	.15763	.04696	6.135	-.00026	.01279	20.782	.01857
#2	.00109	4.1848	.15688	.04543	6.108	.00108	.00676	20.818	.01772

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0507	1.2289	.01370	.05066	.09941
Stddev	.0036	.0040	.00169	.00009	.00089
%RSD	.34595	.32512	12.340	.18125	.89800

#1	1.0481	1.2317	.01250	.05059	.09878
#2	1.0532	1.2261	.01489	.05072	.10005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4404.3	7525.6	85671.	10303.
Stddev	5.8	14.1	266.	13.
%RSD	.13280	.18686	.31072	.12725

#1	4408.4	7515.7	85860.	10312.
#2	4400.1	7535.6	85483.	10294.

Sample Name: 480-45462-G-1-A Acquired: 9/11/2013 19:44:12 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00004	53.207	.03584	.03588	.38232	.00295	186.85	.00106	.05718
Stddev	.00053	.030	.00155	.00032	.00046	.00004	1.67	.00014	.00006
%RSD	1279.5	.05565	4.3364	.90464	.12003	1.2907	.89594	13.496	.09851

#1	.00033	53.228	.03474	.03611	.38199	.00292	185.66	.00117	.05714
#2	-.00042	53.186	.03694	.03565	.38264	.00297	188.03	.00096	.05722

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.07568	.10830	110.43	11.303	13.074	.09527	48.380	4.4640	4.5785
Stddev	.00087	.00007	.02	.006	.005	.00017	.167	.0138	.0135
%RSD	1.1485	.06600	.01789	.05392	.04203	.17487	.34496	.30998	.29502

#1	.07506	.10835	110.45	11.308	13.070	.09515	48.262	4.4542	4.5881
#2	.07629	.10825	110.42	11.299	13.078	.09539	48.498	4.4738	4.5690

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00231	.94219	.11386	.06815	2.913	-.00209	-.00277	19.379	.02812
Stddev	.00019	.00145	.00034	.00181	.002	.00002	.00056	.028	.00034
%RSD	8.0935	.15347	.29999	2.6518	.0664	.95727	20.358	.14575	1.1958

#1	.00244	.94117	.11410	.06687	2.914	-.00211	-.00317	19.359	.02789
#2	.00217	.94321	.11361	.06943	2.912	-.00208	-.00237	19.399	.02836

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.32478	1.1627	-.00144	.11964	.27501
Stddev	.00056	.0035	.00243	.00007	.00138
%RSD	.17327	.30223	169.08	.06074	.50012

#1	.32518	1.1652	.00028	.11959	.27403
#2	.32438	1.1602	-.00316	.11969	.27598

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4130.9	7528.2	86076.	10570.
Stddev	2.2	12.5	74.	49.
%RSD	.05403	.16562	.08592	.46210

#1	4129.3	7519.3	86128.	10605.
#2	4132.4	7537.0	86023.	10536.

Sample Name: 480-45374-F-1-A Acquired: 9/11/2013 19:47:17 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00126	.02954	.00012	.24382	.00028	-.00000	2.9558	.00018	-.00006
Stddev	.00094	.00292	.00104	.00001	.00000	.00001	.0081	.00005	.00004
%RSD	74.534	9.8895	861.17	.00251	.69665	502.53	.27270	25.987	64.460

#1	.00192	.03161	-.00061	.24382	.00027	.00001	2.9615	.00021	-.00004
#2	.00059	.02747	.00086	.24383	.00028	-.00001	2.9501	.00014	-.00009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00031	.01019	.21604	.11397	.03678	-.00107	.00124	.00212	.00202
Stddev	.00012	.00018	.00454	.05175	.00047	.00034	.00164	.00001	.00028
%RSD	38.296	1.7648	2.1016	45.409	1.2808	31.344	132.06	.43465	14.044

#1	.00039	.01007	.21283	.15056	.03711	-.00083	.00008	.00212	.00182
#2	.00023	.01032	.21925	.07737	.03645	-.00131	.00240	.00211	.00222

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.89654	.16831	-.00002	-.00055	2.905	-.00032	.00120	.01521	.02542
Stddev	.00029	.00272	.00032	.00078	.005	.00066	.00108	.00850	.00024
%RSD	.03209	1.6182	1401.0	141.22	.1637	208.59	89.948	55.891	.93132

#1	.89633	.17024	-.00025	-.00000	2.902	.00015	.00044	.00920	.02559
#2	.89674	.16638	.00020	-.00110	2.909	-.00078	.00197	.02121	.02526

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00128	.00212	-.00161	.00148	.81484
Stddev	.00001	.00025	.00204	.00004	.00439
%RSD	.51838	11.651	126.64	2.7905	.53839

#1	.00128	.00195	-.00306	.00151	.81794
#2	.00128	.00230	-.00017	.00145	.81174

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4824.0	7455.8	87715.	10396.
Stddev	10.2	4.0	125.	59.
%RSD	.21154	.05420	.14282	.56890

#1	4816.8	7452.9	87627.	10354.
#2	4831.2	7458.7	87804.	10438.

Sample Name: CCV Acquired: 9/11/2013 19:50:06 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49319	25.175	.49540	.48016	.49501	.50065	24.985	.48218	.48648	.49636	.48808	24.431
Stddev	.00227	.002	.00102	.00152	.00028	.00001	.048	.00082	.00036	.00256	.00011	.072
%RSD	.46096	.00923	.20554	.31675	.05714	.00268	.19352	.16914	.07340	.51564	.02344	.29319

#1	.49480	25.177	.49612	.47909	.49481	.50064	24.951	.48160	.48623	.49817	.48816	24.481
#2	.49159	25.174	.49468	.48124	.49521	.50066	25.019	.48275	.48673	.49455	.48800	24.380

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.685	25.776	.48582	23.877	.50084	.48800	.48321	24.126	.49084	.49365	24.80	.50342
Stddev	.026	.020	.00075	.054	.00010	.00365	.00054	.013	.00217	.00138	.03	.00223
%RSD	.10553	.07643	.15526	.22543	.02071	.74895	.11097	.05181	.44135	.27922	.1152	.44391

#1	24.666	25.790	.48529	23.915	.50092	.49059	.48283	24.117	.49237	.49462	24.82	.50184
#2	24.703	25.762	.48636	23.839	.50077	.48542	.48358	24.135	.48931	.49267	24.78	.50500

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48413	24.890	.48515	.48904	.48103	.49294	.48137	.49400
Stddev	.00101	.084	.00008	.00071	.00010	.00367	.00238	.00409
%RSD	.20923	.33937	.01747	.14500	.01975	.74404	.49402	.82801

#1	.48341	24.831	.48521	.48854	.48096	.49554	.48305	.49689
#2	.48484	24.950	.48509	.48954	.48109	.49035	.47969	.49111

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4543.3	7593.3	86216.	10292.
Stddev	4.2	19.1	135.	54.
%RSD	.09143	.25114	.15628	.52913
#1	4546.2	7606.8	86121.	10331.
#2	4540.3	7579.8	86312.	10254.

Sample Name: CCB Acquired: 9/11/2013 19:52:53 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00008	.02552	-.00030	.00077	.00012	.00004	.00744	.00013	-.00001	.00045	-.00051	.01202
Stddev	.00032	.01439	.00195	.00001	.00001	.00006	.00126	.00001	.00003	.00001	.00025	.00186
%RSD	402.25	56.401	641.45	1.8729	11.367	140.00	16.948	9.9435	431.74	2.0235	48.962	15.468

#1	-.00015	.03570	-.00168	.00078	.00013	.00009	.00833	.00014	.00001	.00044	-.00069	.01071
#2	.00030	.01534	.00107	.00076	.00011	.00000	.00655	.00012	-.00003	.00045	-.00033	.01334

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.07403	.00414	-.00051	.00135	.00062	.00063	.00026	-.01863	.00039	.00023	.0015	-.00086
Stddev	.02376	.00029	.00014	.00162	.00001	.00023	.00024	.00416	.00016	.00066	.0002	.00045
%RSD	32.099	6.8955	27.998	120.18	2.2554	36.242	92.034	22.356	40.226	285.48	10.94	51.726

#1	.05722	.00435	-.00062	.00020	.00063	.00080	.00043	-.02157	.00050	.00070	.0016	-.00118
#2	.09083	.00394	-.00041	.00250	.00061	.00047	.00009	-.01568	.00028	-.00024	.0014	-.00055

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00028	.01137	.00004	.00021	.00020	-.00226	.00021	-.00030
Stddev	.00085	.01629	.00003	.00002	.00008	.00013	.00016	.00031
%RSD	298.41	143.27	84.374	8.2021	41.197	5.8474	77.352	101.06

#1	-.00032	-.00015	.00006	.00022	.00014	-.00235	.00009	-.00009
#2	.00088	.02289	.00002	.00020	.00025	-.00217	.00032	-.00052

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4898.9	7682.5	88518.	10370.
Stddev	2.1	3.9	250.	15.
%RSD	.04383	.05087	.28281	.14498
#1	4897.4	7679.8	88341.	10381.
#2	4900.5	7685.3	88695.	10359.

Sample Name: 480-45423-A-1-A Acquired: 9/11/2013 19:55:45 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00161	22.807	.10733	.38182	2.7591	.00179	168.10	.05121	.35370
Stddev	.00076	.066	.00359	.00098	.0093	.00007	.05	.00008	.00043
%RSD	47.045	.29038	3.3421	.25670	.33761	3.7213	.03080	.16228	.12120

#1	.00215	22.854	.10986	.38252	2.7657	.00184	168.06	.05115	.35401
#2	.00108	22.760	.10479	.38113	2.7525	.00175	168.14	.05127	.35340

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.81319	4.3792	202.06	5.2692	6.2543	.02832	20.114	2.0019	2.0180
Stddev	.00027	.0045	.07	.0290	.0155	.00005	.010	.0007	.0032
%RSD	.03342	.10204	.03228	.55004	.24723	.17024	.04768	.03361	.16104

#1	.81338	4.3760	202.11	5.2897	6.2434	.02829	20.121	2.0014	2.0157
#2	.81300	4.3823	202.02	5.2487	6.2652	.02836	20.108	2.0023	2.0203

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08295	3.4519	.44088	4.1282	F 20.98	.00785	.00431	15.405	.11355
Stddev	.00042	.0069	.00137	.0078	.05	.00049	.00157	.125	.00125
%RSD	.51195	.20079	.31104	.18890	.2343	6.1831	36.342	.81039	1.0999

#1	.08265	3.4470	.44185	4.1227	21.01	.00819	.00542	15.493	.11267
#2	.08325	3.4568	.43991	4.1337	20.94	.00751	.00321	15.317	.11443

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.59929	2.8515	-.00297	.04863	9.9476
Stddev	.00004	.0111	.00171	.00050	.0223
%RSD	.00724	.38862	57.437	1.0183	.22405

#1	.59932	2.8593	-.00418	.04898	9.9318
#2	.59926	2.8436	-.00176	.04828	9.9633

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4180.3	7082.7	81785.	10046.
Stddev	15.9	31.0	77.	.
%RSD	.38124	.43761	.09456	.00072

#1	4169.1	7060.8	81730.	10046.
#2	4191.6	7104.6	81839.	10046.

Sample Name: 480-44724-C-1-B@500 Acquired: 9/11/2013 19:58:29 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00049	.04351	-.00118	.00136	3.4001	.00005	6.6295	-.00025	-.00027
Stddev	.00059	.00232	.00080	.00025	.0138	.00003	.0088	.00010	.00002
%RSD	120.31	5.3294	67.632	18.287	.40548	59.549	.13318	40.774	7.3562

#1	.00007	.04515	-.00062	.00153	3.3903	.00007	6.6232	-.00032	-.00026
#2	.00090	.04187	-.00175	.00118	3.4098	.00003	6.6357	-.00018	-.00029

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00056	.00004	.05951	.15683	.08248	.04255	.41159	.00420	.00424
Stddev	.00007	.00012	.00020	.05368	.00015	.00033	.00106	.00009	.00026
%RSD	11.659	323.60	.34092	34.225	.18260	.77440	.25836	2.0950	6.0702

#1	.00061	-.00005	.05936	.19479	.08259	.04232	.41084	.00426	.00406
#2	.00051	.00012	.05965	.11888	.08237	.04278	.41234	.00413	.00442

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00009	11.806	.00022	.00057	.0060	-.00024	-.00450	.00128	.00013
Stddev	.00021	.037	.00032	.00033	.0049	.00078	.00246	.00268	.00042
%RSD	237.08	.31376	144.71	57.858	81.96	325.51	54.530	208.85	326.58

#1	.00024	11.780	-.00001	.00081	.0095	.00031	-.00277	.00317	.00043
#2	-.00006	11.832	.00045	.00034	.0025	-.00079	-.00624	-.00061	-.00017

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.2439	.00109	-.00303	.00013	.00162
Stddev	.0033	.00069	.00135	.00002	.00051
%RSD	.14703	63.402	44.447	11.571	31.178

#1	2.2416	.00060	-.00208	.00012	.00198
#2	2.2463	.00158	-.00398	.00014	.00126

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4790.5	7634.8	87309.	10323.
Stddev	3.1	15.2	225.	11.
%RSD	.06384	.19874	.25799	.10611

#1	4792.7	7645.5	87468.	10315.
#2	4788.4	7624.1	87150.	10330.

Sample Name: 480-44730-C-1-B@500 Acquired: 9/11/2013 20:01:24 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00043	.03528	.00008	.00137	3.7578	.00008	4.3344	-.00024	-.00027
Stddev	.00088	.00032	.00099	.00021	.0131	.00000	.0180	.00007	.00009
%RSD	204.93	.89813	1261.6	15.372	.34942	2.1884	.41504	27.821	32.809

#1	.00105	.03505	-.00062	.00151	3.7671	.00008	4.3471	-.00029	-.00020
#2	-.00019	.03550	.00078	.00122	3.7485	.00008	4.3217	-.00019	-.00033

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00049	-.00027	.03961	.14296	.04669	.03692	.28061	.00297	.00268
Stddev	.00015	.00005	.00135	.01146	.00011	.00147	.00086	.00004	.00032
%RSD	30.367	19.570	3.4022	8.0189	.23444	3.9907	.30522	1.1974	12.005

#1	.00060	-.00023	.03866	.15107	.04661	.03588	.28122	.00299	.00291
#2	.00039	-.00030	.04056	.13486	.04677	.03797	.28001	.00294	.00246

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00017	9.9259	-.00041	-.00005	.0123	-.00102	-.00111	.00588	-.00000
Stddev	.00022	.0054	.00032	.00020	.0001	.00067	.00195	.00303	.00010
%RSD	126.13	.05474	78.400	368.01	.8632	65.309	175.65	51.450	2548.5

#1	.00002	9.9298	-.00064	.00009	.0122	-.00149	-.00249	.00802	-.00007
#2	.00032	9.9221	-.00018	-.00020	.0124	-.00055	.00027	.00374	.00006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.7967	.00044	-.00014	.00015	.00237
Stddev	.0009	.00025	.00013	.00002	.00006
%RSD	.05025	58.417	89.855	11.068	2.4156

#1	1.7974	.00062	-.00023	.00016	.00233
#2	1.7961	.00026	-.00005	.00014	.00241

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4781.0	7596.4	87145.	10351.
Stddev	11.8	13.9	382.	16.
%RSD	.24690	.18315	.43864	.15326
#1	4789.3	7606.2	86874.	10340.
#2	4772.6	7586.5	87415.	10362.

Sample Name: MB 480-138121/1-A Acquired: 9/11/2013 20:04:19 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00052	.04462	-.00039	.00400	.00089	-.00007	.04630	.00001	.00002
Stddev	.00011	.00330	.00064	.00041	.00002	.00002	.00387	.00001	.00007
%RSD	21.813	7.3859	161.94	10.318	2.0774	25.644	8.3621	89.646	288.98

#1	.00044	.04229	-.00085	.00371	.00090	-.00009	.04904	.00000	-.00003
#2	.00060	.04695	.00006	.00429	.00088	-.00006	.04356	.00001	.00007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00011	-.00038	.01336	.03980	.00007	-.00058	.00050	.00019	.00028
Stddev	.00023	.00007	.00098	.03202	.00006	.00017	.00259	.00001	.00023
%RSD	208.13	17.528	7.3345	80.459	84.741	29.170	518.35	7.6386	82.138

#1	.00005	-.00033	.01266	.06244	.00003	-.00070	.00233	.00018	.00044
#2	-.00027	-.00043	.01405	.01716	.00010	-.00046	-.00133	.00020	.00012

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00007	-.01612	-.00040	.00001	F .0038	.00032	-.00165	.00708	-.00016
Stddev	.00010	.00167	.00006	.00100	.0029	.00069	.00104	.00980	.00010
%RSD	146.93	10.382	13.855	7750.4	76.31	212.78	62.861	138.52	60.703

#1	.00014	-.01730	-.00036	.00072	.0059	.00081	-.00092	.00014	-.00009
#2	-.00000	-.01493	-.00044	-.00069	.0018	-.00016	-.00239	.01401	-.00023

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					.0030				
Low Limit					-.0040				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00083	.00038	-.00326	.00014	.00014
Stddev	.00013	.00015	.00166	.00009	.00011
%RSD	15.648	39.675	51.066	64.396	81.101

#1	.00092	.00049	-.00208	.00008	.00021
#2	.00074	.00027	-.00444	.00021	.00006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4882.9	7640.1	88589.	10306.
Stddev	2.3	12.1	425.	33.
%RSD	.04674	.15828	.47939	.32454

#1	4884.5	7631.6	88289.	10329.
#2	4881.3	7648.7	88889.	10282.

Sample Name: LCS 480-138121/2-A Acquired: 9/11/2013 20:07:10 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05256	10.492	.20658	.20834	.20894	.21085	10.159	.20362	.20204
Stddev	.00064	.069	.00076	.00000	.00089	.00001	.022	.00058	.00014
%RSD	1.2212	.65546	.37026	.00058	.42521	.00499	.21773	.28362	.07019

#1	.05211	10.443	.20712	.20834	.20831	.21084	10.144	.20403	.20194
#2	.05301	10.541	.20604	.20834	.20957	.21085	10.175	.20321	.20214

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20649	.20548	10.321	10.113	10.528	.20338	10.238	.20548	.20099
Stddev	.00073	.00056	.006	.022	.049	.00068	.044	.00087	.00255
%RSD	.35258	.27117	.06014	.21440	.46828	.33306	.42562	.42125	1.2674

#1	.20597	.20509	10.325	10.098	10.563	.20385	10.269	.20609	.20279
#2	.20700	.20588	10.316	10.128	10.493	.20290	10.207	.20487	.19919

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20632	9.8922	.20135	.20071	F -.0010	.20818	.20352	10.287	.19246
Stddev	.00045	.0022	.00085	.00047	.0010	.00052	.00160	.075	.00010
%RSD	.21769	.02256	.42394	.23316	105.2	.25158	.78771	.72459	.05175

#1	.20664	9.8906	.20075	.20038	-.0003	.20855	.20465	10.234	.19239
#2	.20600	9.8938	.20196	.20104	-.0017	.20781	.20238	10.339	.19253

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					11.50				
Low Limit					8.500				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20397	.19291	.20128	.20160	.19855
Stddev	.00063	.00036	.00144	.00015	.00106
%RSD	.30937	.18487	.71686	.07389	.53138

#1	.20353	.19266	.20230	.20149	.19930
#2	.20442	.19317	.20026	.20170	.19781

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4658.4	7546.8	86757.	10438.
Stddev	12.2	2.4	124.	3.
%RSD	.26267	.03138	.14267	.02716

#1	4667.1	7548.5	86669.	10440.
#2	4649.8	7545.1	86844.	10436.

Sample Name: 480-45397-D-1-A Acquired: 9/11/2013 20:09:58 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00088	.05616	-.00062	.02905	.13720	.00004	31.134	.00016	-.00000
Stddev	.00059	.00806	.00173	.00024	.00017	.00004	.007	.00001	.00006
%RSD	67.217	14.360	279.83	.84118	.12218	94.764	.02339	3.7314	1359.4

#1	.00130	.05045	.00061	.02923	.13708	.00007	31.129	.00017	-.00005
#2	.00046	.06186	-.00184	.02888	.13732	.00001	31.140	.00016	.00004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00278	.00067	.01667	4.1072	6.1037	.00380	4.3401	.00959	.00965
Stddev	.00007	.00010	.00202	.0292	.0751	.00144	.0014	.00002	.00004
%RSD	2.6665	15.345	12.114	.71180	1.2303	37.856	.03317	.15675	.41312

#1	.00273	.00075	.01809	4.1279	6.0506	.00481	4.3391	.00958	.00962
#2	.00283	.00060	.01524	4.0865	6.1568	.00278	4.3412	.00960	.00968

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00013	169.63	-.00013	-.00275	4.871	-.00198	-.00130	6.8110	.00001
Stddev	.00016	.67	.00013	.00026	.021	.00083	.00136	.0116	.00044
%RSD	127.90	.39786	99.669	9.2738	.4342	41.907	104.44	.16994	3074.6

#1	.00024	169.16	-.00023	-.00293	4.856	-.00140	-.00227	6.8191	-.00030
#2	.00001	170.11	-.00004	-.00257	4.886	-.00257	-.00034	6.8028	.00033

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20892	.00076	-.00165	.00045	.01196
Stddev	.00072	.00002	.00017	.00004	.00071
%RSD	.34296	3.0487	10.398	7.9638	5.9033

#1	.20841	.00074	-.00153	.00047	.01246
#2	.20942	.00078	-.00177	.00042	.01146

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4322.9	7257.2	82242.	10254.
Stddev	8.5	4.5	222.	3.
%RSD	.19708	.06265	.26938	.03383

#1	4328.9	7260.4	82086.	10252.
#2	4316.9	7254.0	82399.	10257.

Sample Name: 480-45397-D-3-A Acquired: 9/11/2013 20:12:50 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00032	.06046	.00009	.04272	.12534	.00003	22.102	.00013	.00019
Stddev	.00061	.00619	.00196	.00029	.00056	.00006	.093	.00008	.00003
%RSD	193.01	10.236	2262.5	.66781	.44513	214.87	.41989	66.079	16.795

#1	-.00012	.06483	-.00130	.04252	.12573	-.00001	22.168	.00007	.00021
#2	.00075	.05608	.00148	.04292	.12494	.00007	22.037	.00019	.00016

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00079	.00041	.99025	2.9437	3.7633	.00127	2.5773	.35444	.34950
Stddev	.00022	.00014	.00021	.0264	.0164	.00030	.0085	.00050	.00053
%RSD	27.800	35.245	.02118	.89789	.43563	23.792	.33060	.13993	.15042

#1	.00063	.00051	.99010	2.9250	3.7517	.00149	2.5713	.35409	.34987
#2	.00094	.00030	.99040	2.9624	3.7748	.00106	2.5834	.35479	.34913

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	69.121	-.00030	-.00211	3.208	-.00001	-.00010	4.4971	-.00046
Stddev	.00028	.310	.00050	.00009	.000	.00133	.00361	.0388	.00049
%RSD	586.32	.44909	170.28	4.3740	.0093	20375.	3768.9	.86186	105.31

#1	-.00015	69.341	-.00065	-.00218	3.208	-.00095	-.00265	4.5245	-.00012
#2	.00024	68.902	.00006	-.00205	3.208	.00094	.00246	4.4697	-.00080

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.10692	.00099	-.00118	.00057	.00526
Stddev	.00035	.00004	.00201	.00010	.00004
%RSD	.32727	4.0128	170.17	16.951	.68785

#1	.10717	.00102	-.00260	.00064	.00529
#2	.10667	.00096	.00024	.00050	.00524

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4508.8	7384.9	84472.	10321.
Stddev	4.5	3.7	90.	2.
%RSD	.10021	.04989	.10615	.02039

#1	4505.6	7387.5	84409.	10320.
#2	4512.0	7382.3	84536.	10323.

Sample Name: 480-45354-C-1-B Acquired: 9/11/2013 20:15:38 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 {74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00106	.22185	.14988	13.204	.68867	-0.00001	117.77	.00023	.02227
Stddev	.00005	.00204	.00002	.019	.00026	.00001	.00	.00001	.00008
%RSD	4.4866	.91735	.01058	.14584	.03810	47.457	.00354	4.1519	.37921

#1	.00109	.22041	.14987	13.190	.68886	-0.00001	117.78	.00023	.02233
#2	.00102	.22329	.14989	13.217	.68848	-0.00002	117.77	.00022	.02221

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 {44}	766.490 {44}2	670.784 {50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09333	.00928	9.7154	328.44	108.80	.49052	92.634	1.2870	1.4249
Stddev	.00031	.00028	.0459	1.01	6.09	.00123	.056	.0021	.0020
%RSD	.32778	3.0123	.47289	.30831	5.5946	.24994	.06029	.15955	.14123

#1	.09312	.00909	9.7479	329.16	113.10	.48966	92.673	1.2884	1.4263
#2	.09355	.00948	9.6829	327.72	104.50	.49139	92.594	1.2855	1.4235

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 {41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02053	1252.7	.24211	.00148	F 27.84	.01140	.00118	12.921	.03389
Stddev	.00007	2.3	.00134	.00078	.07	.00151	.00172	.015	.00005
%RSD	.34133	.18629	.55543	52.699	.2357	13.203	145.25	.11397	.13992

#1	.02048	1254.4	.24306	.00093	27.89	.01246	-.00003	12.911	.03392
#2	.02058	1251.1	.24116	.00203	27.80	.01033	.00240	12.931	.03386

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 {83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.95512	.05318	-.00168	.02763	.09022
Stddev	.00186	.00020	.00125	.00015	.00013
%RSD	.19445	.38377	74.253	.53749	.14446

#1	.95643	.05304	-.00256	.02773	.09013
#2	.95381	.05333	-.00080	.02752	.09031

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 {94}	377.433 {89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3564.2	6524.7	72569.	10197.
Stddev	8.4	2.7	79.	18.
%RSD	.23526	.04124	.10912	.17577

#1	3558.3	6526.7	72625.	10184.
#2	3570.2	6522.8	72513.	10209.

Sample Name: 480-45331-F-1-D Acquired: 9/11/2013 20:18:40 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00050	.03488	.00039	.02084	.00361	-.00000	31.699	.00010	.00005
Stddev	.00026	.00367	.00099	.00163	.00002	.00004	.031	.00001	.00006
%RSD	50.651	10.530	253.51	7.8051	.60464	921.93	.09851	7.1843	118.21

#1	.00032	.03748	.00109	.02199	.00363	.00003	31.721	.00011	.00010
#2	.00069	.03228	-.00031	.01969	.00360	-.00003	31.677	.00010	.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00075	.06906	.07428	1.1649	.85658	.00132	14.425	.00750	.00705
Stddev	.00001	.00027	.00578	.0093	.00216	.00042	.022	.00010	.00086
%RSD	1.8387	.39042	7.7816	.79805	.25211	31.755	.15151	1.3588	12.226

#1	.00076	.06925	.07020	1.1584	.85505	.00161	14.409	.00743	.00766
#2	.00074	.06887	.07837	1.1715	.85810	.00102	14.440	.00757	.00644

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00083	2.2485	.00031	-.00135	4.259	-.00067	-.00095	3.3097	-.00077
Stddev	.00030	.0012	.00010	.00064	.014	.00081	.00205	.0189	.00001
%RSD	35.408	.05521	31.077	47.592	.3246	121.09	216.96	.57194	1.1541

#1	.00063	2.2476	.00024	-.00180	4.268	-.00010	-.00240	3.3231	-.00077
#2	.00104	2.2494	.00038	-.00090	4.249	-.00125	.00051	3.2964	-.00076

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05742	.00066	-.00077	.00024	.01879
Stddev	.00005	.00050	.00201	.00024	.00015
%RSD	.09148	76.181	261.66	99.493	.81994

#1	.05738	.00030	-.00219	.00041	.01868
#2	.05745	.00101	.00065	.00007	.01890

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4654.1	7459.9	85977.	10351.
Stddev	8.0	10.8	19.	6.
%RSD	.17085	.14484	.02253	.05566

#1	4648.5	7452.3	85963.	10347.
#2	4659.7	7467.6	85991.	10355.

Sample Name: 480-45409-A-1-A Acquired: 9/11/2013 20:21:28 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00060	.09378	-.00156	.02785	.02036	-.00004	41.670	.00024	.00001
Stddev	.00014	.00750	.00165	.00028	.00009	.00011	.097	.00003	.00002
%RSD	23.105	7.9990	105.56	1.0192	.42664	257.46	.23191	11.657	423.78

#1	.00069	.08847	-.00040	.02805	.02042	.00004	41.601	.00022	.00002
#2	.00050	.09908	-.00272	.02765	.02030	-.00013	41.738	.00026	-.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00109	.00240	.02576	26.356	26.946	.00242	20.260	.00223	.00211
Stddev	.00001	.00007	.00203	.045	.118	.00073	.015	.00004	.00031
%RSD	.85366	3.0932	7.8774	.17258	.43685	30.263	.07480	1.6910	14.468

#1	.00110	.00245	.02720	26.324	26.863	.00190	20.249	.00226	.00233
#2	.00108	.00235	.02433	26.388	27.029	.00294	20.270	.00221	.00190

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_2243)	(Y_3774)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00041	48.364	49.523	.00060	-.00188	F 23.93	.00255	-.00162	3.2239
Stddev	.00005	.008	.386	.00005	.00070	.01	.00072	.00165	.0060
%RSD	12.256	.01755	.77989	7.9469	37.225	.0575	28.183	101.66	.18520

#1	.00037	48.358	49.796	.00063	-.00237	23.94	.00306	-.00279	3.2196
#2	.00045	48.370	49.250	.00056	-.00138	23.92	.00204	-.00046	3.2281

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						10.00			
Low Limit						-.0100			

Elem	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00008	.05853	.00671	.00021	.00085	.00479
Stddev	.00057	.00018	.00055	.00096	.00035	.00025
%RSD	723.54	.30263	8.1511	463.31	41.372	5.2662

#1	-.00048	.05840	.00710	-.00047	.00110	.00497
#2	.00032	.05866	.00632	.00088	.00060	.00461

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4448.4	7304.4	84067.	10310.
Stddev	3.3	.9	206.	35.
%RSD	.07491	.01206	.24472	.33932

#1	4450.7	7305.0	83921.	10335.
#2	4446.0	7303.8	84212.	10286.

Sample Name: CCV Acquired: 9/11/2013 20:24:24 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49120	24.900	.49419	.48484	.49278	.49810	24.526	.48233	.48506	.49427	.48842	24.223
Stddev	.00315	.068	.00206	.00105	.00074	.00081	.060	.00095	.00014	.00288	.00090	.085
%RSD	.64122	.27304	.41680	.21709	.15021	.16226	.24311	.19746	.02787	.58274	.18340	.34924

#1	.49343	24.852	.49564	.48558	.49330	.49753	24.484	.48300	.48515	.49631	.48905	24.163
#2	.48897	24.948	.49273	.48409	.49225	.49867	24.568	.48166	.48496	.49224	.48778	24.282

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.492	24.646	.48412	23.781	.49915	.49151	.48216	24.026	.49223	.49022	24.89	.50338
Stddev	.060	.075	.00069	.034	.00033	.00318	.00072	.011	.00022	.00247	.02	.00062
%RSD	.24469	.30461	.14295	.14130	.06513	.64675	.15023	.04490	.04416	.50388	.0842	.12349

#1	24.450	24.699	.48363	23.758	.49938	.49376	.48267	24.018	.49238	.49196	24.88	.50382
#2	24.535	24.593	.48461	23.805	.49892	.48926	.48165	24.033	.49208	.48847	24.91	.50294

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48573	24.544	.48336	.48830	.48286	.49658	.48009	.48599
Stddev	.00434	.081	.00013	.00032	.00009	.00261	.00346	.00387
%RSD	.89253	.32892	.02787	.06491	.01936	.52516	.72147	.79536

#1	.48880	24.486	.48327	.48853	.48279	.49843	.48254	.48872
#2	.48266	24.601	.48346	.48808	.48292	.49474	.47764	.48326

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4495.5	7517.8	85430.	10353.
Stddev	.7	6.2	309.	66.
%RSD	.01502	.08246	.36216	.63705
#1	4495.1	7513.4	85211.	10400.
#2	4496.0	7522.2	85649.	10307.

Sample Name: CCB Acquired: 9/11/2013 20:27:11 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00053	.01072	-.00064	.00395	.00009	.00006	.00864	-.00000	.00015	-.00002	-.00060	.00424
Stddev	.00009	.01807	.00198	.00059	.00000	.00000	.00262	.00004	.00004	.00006	.00031	.00030
%RSD	17.427	168.60	309.26	15.000	2.0005	2.9882	30.340	1660.0	29.364	367.72	51.005	6.9989

#1	.00046	.02349	-.00204	.00437	.00009	.00006	.00679	.00003	.00012	.00003	-.00038	.00445
#2	.00059	-.00206	.00076	.00353	.00008	.00006	.01050	-.00003	.00018	-.00006	-.00082	.00403

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.12982	.01273	-.00072	.00458	.00011	.00021	.00039	.04194	-.00026	-.00030	F .0059	-.00160
Stddev	.01892	.00067	.00046	.00464	.00001	.00005	.00016	.00945	.00012	.00128	.0029	.00129
%RSD	14.576	5.2556	63.556	101.29	6.9829	21.745	40.924	22.525	47.906	431.30	48.69	80.580

#1	.11644	.01321	-.00104	.00786	.00011	.00024	.00028	.04862	-.00035	.00061	.0080	-.00069
#2	.14320	.01226	-.00040	.00130	.00012	.00018	.00051	.03526	-.00017	-.00120	.0039	-.00251

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00238	.03085	-.00010	.00013	.00030	-.00213	.00001	-.00027
Stddev	.00121	.00819	.00041	.00001	.00020	.00047	.00021	.00030
%RSD	50.988	26.544	409.20	5.9093	64.887	22.021	1807.9	111.41

#1	-.00324	.03664	.00019	.00014	.00016	-.00180	.00016	-.00006
#2	-.00152	.02506	-.00039	.00013	.00044	-.00246	-.00014	-.00048

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4874.4	7629.8	87399.	10368.
Stddev	4.5	4.3	125.	22.
%RSD	.09229	.05607	.14344	.21464
#1	4871.2	7632.8	87310.	10352.
#2	4877.6	7626.8	87487.	10383.

Sample Name: 480-45331-F-2-B Acquired: 9/11/2013 20:30:03 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00044	.06491	-.00015	.00956	.00381	.00003	30.937	.00013	.00009
Stddev	.00030	.00601	.00252	.00027	.00000	.00003	.180	.00003	.00012
%RSD	69.523	9.2606	1705.4	2.8227	.12102	101.05	.58256	19.751	131.63

#1	.00022	.06917	-.00193	.00937	.00381	.00005	31.065	.00015	.00018
#2	.00065	.06066	.00164	.00976	.00381	.00001	30.810	.00011	.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00067	.07795	.04504	.96218	.91234	.00066	14.183	.02991	.02901
Stddev	.00004	.00031	.00138	.06255	.01230	.00054	.036	.00000	.00008
%RSD	6.2653	.40101	3.0707	6.5006	1.3477	82.100	.25536	.01278	.28190

#1	.00070	.07817	.04406	.91795	.92103	.00104	14.157	.02991	.02906
#2	.00064	.07773	.04601	1.0064	.90365	.00028	14.209	.02992	.02895

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00089	1.8929	.00030	-.00161	4.167	-.00057	-.00128	3.1557	-.00022
Stddev	.00002	.0038	.00007	.00169	.007	.00231	.00205	.0225	.00003
%RSD	1.9916	.20143	24.596	104.64	.1590	409.01	159.37	.71230	15.127

#1	.00088	1.8902	.00025	-.00281	4.162	-.00220	.00016	3.1398	-.00025
#2	.00091	1.8956	.00035	-.00042	4.171	.00107	-.00273	3.1716	-.00020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05629	.00032	-.00144	.00004	.01568
Stddev	.00000	.00004	.00043	.00004	.00004
%RSD	.00716	12.894	30.052	99.946	.26161

#1	.05629	.00029	-.00113	.00001	.01566
#2	.05629	.00035	-.00174	.00007	.01571

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4668.6	7474.2	86472.	10450.
Stddev	6.5	.3	160.	76.
%RSD	.14012	.00440	.18485	.73048

#1	4664.0	7474.0	86585.	10396.
#2	4673.2	7474.5	86359.	10504.

Sample Name: 480-45332-A-4-B Acquired: 9/11/2013 20:32:50 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00045	.37895	.28280	.03751	.00811	.00004	2.3197	.00023	.03296
Stddev	.00048	.01598	.00043	.00027	.00001	.00004	.0094	.00015	.00042
%RSD	108.34	4.2164	.15364	.72071	.09843	93.621	.40411	63.020	1.2829

#1	-0.00010	.36766	.28249	.03770	.00810	.00001	2.3131	.00013	.03267
#2	-0.00079	.39025	.28311	.03732	.00811	.00007	2.3263	.00034	.03326

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.29368	.05588	542.40	.76163	1.5302	.00541	.77622	7.0706	7.7083
Stddev	.00173	.00011	1.38	.04187	.0064	.00027	.00886	.0467	.0135
%RSD	.58888	.20209	.25445	5.4968	.41793	4.9524	1.1411	.66085	.17568

#1	.29245	.05580	541.42	.79123	1.5347	.00560	.78249	7.0376	7.6987
#2	.29490	.05596	543.37	.73203	1.5257	.00523	.76996	7.1037	7.7179

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04148	837.78	.23189	.22331	4.668	-0.00157	.00459	5.9260	.06496
Stddev	.00008	.70	.00017	.00059	.004	.00179	.00304	.0036	.00012
%RSD	.20281	.08394	.07349	.26509	.0879	114.11	66.157	.06145	.18562

#1	.04154	838.27	.23177	.22289	4.665	-0.00283	.00244	5.9235	.06505
#2	.04142	837.28	.23201	.22373	4.671	-0.00030	.00673	5.9286	.06488

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00740	.18869	-0.00606	.01022	1.4907
Stddev	.00004	.00056	.00375	.00022	.0162
%RSD	.48969	.29878	61.882	2.1487	1.0872

#1	.00737	.18829	-0.00341	.01037	1.4793
#2	.00743	.18908	-0.00871	.01006	1.5022

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3838.5	6800.3	75590.	10183.
Stddev	1.8	1.2	240.	44.
%RSD	.04779	.01710	.31794	.43409

#1	3839.8	6801.1	75760.	10214.
#2	3837.2	6799.5	75420.	10152.

Sample Name: 480-45373-A-4-A Acquired: 9/11/2013 20:35:51 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00082	.05845	.00187	.00881	.01647	.00003	.36794	.00006	.00018
Stddev	.00022	.01491	.00270	.00015	.00005	.00003	.00039	.00002	.00001
%RSD	27.072	25.516	144.17	1.6743	.30647	98.776	.10680	36.321	6.7456

#1	.00066	.06899	.00378	.00891	.01643	.00001	.36822	.00005	.00019
#2	.00098	.04790	-.00004	.00870	.01650	.00005	.36766	.00008	.00018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00043	.00061	.15874	.28999	.30224	.00084	.07894	.00395	.00411
Stddev	.00031	.00005	.00222	.02539	.00058	.00015	.00086	.00005	.00024
%RSD	72.078	7.4560	1.4017	8.7568	.19212	17.344	1.0942	1.3153	5.7407

#1	.00021	.00064	.16031	.27203	.30183	.00094	.07833	.00399	.00428
#2	.00065	.00058	.15716	.30794	.30265	.00074	.07955	.00391	.00395

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00096	185.68	-.00007	-.00246	F 53.55	-.00157	-.00302	2.3725	-.00003
Stddev	.00006	.33	.00002	.00039	.03	.00092	.00593	.0218	.00025
%RSD	6.2423	.18026	33.132	15.838	.0597	58.626	196.34	.91918	757.35

#1	.00101	185.92	-.00005	-.00273	53.52	-.00092	-.00721	2.3880	-.00021
#2	.00092	185.45	-.00008	-.00218	53.57	-.00222	.00117	2.3571	.00014

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00648	.00041	-.00261	.00057	.00139
Stddev	.00006	.00005	.00085	.00008	.00018
%RSD	.98327	11.746	32.560	14.723	12.781

#1	.00644	.00037	-.00321	.00051	.00126
#2	.00653	.00044	-.00201	.00063	.00151

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4385.4	7325.2	82958.	10442.
Stddev	2.0	.0	208.	43.
%RSD	.04529	.00030	.25043	.41221
#1	4384.0	7325.2	83104.	10473.
#2	4386.8	7325.2	82811.	10412.

Sample Name: 480-45373-A-4-A SD@5 Acquired: 9/11/2013 20:38:46 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00038	.03931	-.00082	.00346	.00321	.00003	.09664	-.00000	.00003
Stddev	.00010	.01198	.00001	.00036	.00001	.00003	.00052	.00012	.00012
%RSD	25.203	30.473	1.8004	10.341	.16356	113.32	.54321	2393.6	368.31

#1	.00045	.03084	-.00083	.00320	.00321	.00005	.09701	-.00009	-.00005
#2	.00031	.04778	-.00081	.00371	.00321	.00001	.09627	.00008	.00011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00009	-.00055	.07980	.11170	.04283	-.00030	.01966	.00142	.00162
Stddev	.00013	.00008	.00011	.03010	.00037	.00016	.00340	.00001	.00005
%RSD	154.16	15.191	.13710	26.947	.85514	53.626	17.279	.83478	3.3225

#1	.00018	-.00061	.07987	.09042	.04309	-.00042	.02206	.00142	.00166
#2	-.00001	-.00049	.07972	.13298	.04257	-.00019	.01726	.00143	.00158

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00030	32.962	-.00035	-.00103	9.409	-.00002	-.00193	.43956	-.00015
Stddev	.00005	.093	.00005	.00071	.041	.00130	.00162	.00017	.00005
%RSD	15.399	.28077	15.359	68.766	.4303	5580.5	83.630	.03977	30.433

#1	.00033	33.028	-.00039	-.00154	9.380	.00090	-.00079	.43944	-.00018
#2	.00027	32.897	-.00032	-.00053	9.437	-.00094	-.00308	.43969	-.00012

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00148	.00037	-.00232	.00038	.00003
Stddev	.00003	.00046	.00011	.00021	.00022
%RSD	2.1552	122.88	4.9202	56.356	734.03

#1	.00146	.00069	-.00224	.00053	.00019
#2	.00151	.00005	-.00240	.00023	-.00013

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4710.0	7542.8	86221.	10402.
Stddev	9.5	11.1	158.	47.
%RSD	.20087	.14669	.18372	.44850

#1	4716.7	7550.6	86109.	10434.
#2	4703.4	7535.0	86333.	10369.

Sample Name: 480-45373-A-4-A PDS Acquired: 9/11/2013 20:41:37 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05483	10.982	.23147	.22321	.22850	.22889	11.315	.22091	.22493
Stddev	.00086	.075	.00056	.00015	.00143	.00006	.049	.00112	.00011
%RSD	1.5720	.68143	.24060	.06768	.62694	.02827	.43366	.50880	.04923

#1	.05422	11.035	.23108	.22310	.22748	.22885	11.350	.22170	.22501
#2	.05544	10.929	.23187	.22332	.22951	.22894	11.281	.22011	.22485

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21944	.22219	11.051	11.023	15.890	.21734	10.990	.22319	.22460
Stddev	.00045	.00128	.011	.002	.120	.00043	.049	.00089	.00087
%RSD	.20513	.57587	.09977	.02018	.75758	.19831	.44312	.39953	.38655

#1	.21976	.22128	11.059	11.024	15.975	.21764	11.025	.22382	.22398
#2	.21912	.22309	11.044	11.021	15.805	.21703	10.956	.22256	.22521

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21823	191.49	.22424	.22248	F 51.62	.22087	.22364	13.179	.20559
Stddev	.00039	.05	.00130	.00089	.05	.00171	.00214	.036	.00108
%RSD	.17826	.02380	.58063	.39864	.0981	.77413	.95719	.27014	.52690

#1	.21850	191.46	.22332	.22186	51.58	.22208	.22515	13.204	.20483
#2	.21795	191.53	.22516	.22311	51.66	.21966	.22212	13.153	.20636

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.21724	.21069	.22176	.22027	.22182
Stddev	.00023	.00058	.00220	.00025	.00097
%RSD	.10365	.27555	.99247	.11348	.43550

#1	.21740	.21028	.22332	.22009	.22250
#2	.21708	.21110	.22020	.22045	.22114

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4299.7	7349.0	83356.	10416.
Stddev	.9	11.8	167.	61.
%RSD	.02012	.16089	.19997	.58639

#1	4300.3	7340.6	83238.	10373.
#2	4299.1	7357.3	83474.	10459.

Sample Name: 480-45373-A-4-B MS Acquired: 9/11/2013 20:44:28 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05296	10.475	.20920	.21087	.21755	.20964	10.514	.20488	.20740
Stddev	.00031	.004	.00068	.00096	.00056	.00051	.010	.00006	.00008
%RSD	.57752	.04236	.32723	.45665	.25511	.24281	.09099	.02758	.03680

#1	.05317	10.472	.20968	.21019	.21716	.20928	10.521	.20484	.20734
#2	.05274	10.478	.20871	.21155	.21794	.21000	10.507	.20492	.20745

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20593	.20638	10.249	10.570	15.169	.20440	10.107	.20577	.20726
Stddev	.00059	.00110	.013	.013	.019	.00088	.021	.00011	.00056
%RSD	.28554	.53377	.12638	.12486	.12769	.42814	.20968	.05583	.26938

#1	.20551	.20560	10.258	10.560	15.155	.20502	10.122	.20585	.20686
#2	.20635	.20716	10.240	10.579	15.182	.20379	10.092	.20568	.20765

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20455	193.59	.20579	.20342	F 52.13	.20605	.20804	12.690	.20053
Stddev	.00035	.10	.00025	.00052	.01	.00107	.00185	.016	.00059
%RSD	.17022	.05197	.12301	.25467	.0105	.52136	.88752	.12793	.29234

#1	.20479	193.66	.20597	.20305	52.12	.20529	.20674	12.678	.20012
#2	.20430	193.52	.20561	.20379	52.13	.20681	.20935	12.701	.20095

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20904	.19448	.19926	.20102	.20716
Stddev	.00048	.00004	.00206	.00114	.00034
%RSD	.22891	.02028	1.0316	.56771	.16387

#1	.20870	.19451	.20071	.20021	.20692
#2	.20938	.19445	.19780	.20182	.20740

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4303.3	7346.9	83109.	10328.
Stddev	6.4	4.5	60.	7.
%RSD	.14957	.06070	.07178	.06910

#1	4298.8	7343.7	83066.	10333.
#2	4307.9	7350.0	83151.	10323.

Sample Name: 480-45373-A-4-C MSD Acquired: 9/11/2013 20:47:20 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05274	10.468	.21168	.20967	.21835	.20979	10.516	.20508	.20793
Stddev	.00081	.023	.00241	.00116	.00068	.00022	.017	.00027	.00046
%RSD	1.5353	.21889	1.1400	.55350	.30943	.10399	.15790	.13146	.22094

#1	.05331	10.484	.21339	.20885	.21883	.20963	10.505	.20488	.20826
#2	.05216	10.452	.20998	.21049	.21787	.20994	10.528	.20527	.20761

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20578	.20689	10.248	10.515	15.158	.20321	10.161	.20613	.20828
Stddev	.00074	.00019	.003	.001	.116	.00080	.003	.00013	.00238
%RSD	.36176	.09401	.03123	.01138	.76352	.39507	.02859	.06342	1.1450

#1	.20631	.20676	10.245	10.514	15.076	.20378	10.164	.20604	.20997
#2	.20526	.20703	10.250	10.516	15.240	.20264	10.159	.20623	.20660

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20526	197.05	.20648	.20441	F 53.01	.20499	.20825	12.743	.19897
Stddev	.00004	.17	.00074	.00151	.02	.00048	.00490	.005	.00061
%RSD	.01948	.08555	.35701	.73769	.0346	.23546	2.3518	.03667	.30663

#1	.20528	196.93	.20700	.20548	53.02	.20533	.21171	12.746	.19853
#2	.20523	197.17	.20596	.20335	52.99	.20465	.20478	12.740	.19940

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20884	.19408	.20254	.20389	.20809
Stddev	.00049	.00000	.00318	.00001	.00066
%RSD	.23642	.00132	1.5686	.00257	.31549

#1	.20919	.19408	.20029	.20389	.20855
#2	.20849	.19408	.20478	.20388	.20763

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4301.7	7350.6	82728.	10315.
Stddev	1.9	2.5	189.	44.
%RSD	.04388	.03352	.22804	.42500

#1	4303.0	7352.4	82594.	10346.
#2	4300.3	7348.9	82861.	10284.

Sample Name: 480-45403-H-3-A Acquired: 9/11/2013 20:50:12 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00022	3.8135	.02450	.25493	1.4772	.00007	437.06	.00054	.00293
Stddev	.00002	.0020	.00161	.00051	.0049	.00008	.71	.00017	.00008
%RSD	9.2533	.05160	6.5822	.20122	.33056	105.82	.16289	31.421	2.8614

#1	.00024	3.8121	.02336	.25530	1.4806	.00002	436.55	.00066	.00299
#2	.00021	3.8149	.02564	.25457	1.4737	.00013	437.56	.00042	.00287

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01038	.01007	20.496	62.613	65.016	.05019	254.95	.71833	.76432
Stddev	.00000	.00028	.001	.121	.299	.00010	1.24	.00045	.00144
%RSD	.02531	2.7865	.00582	.19391	.46001	.19048	.48541	.06288	.18900

#1	.01038	.00987	20.496	62.699	65.227	.05026	255.82	.71865	.76330
#2	.01038	.01026	20.497	62.527	64.804	.05012	254.07	.71801	.76534

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02101	133.47	.00793	F -.01135	4.412	.00111	.00220	35.548	.00064
Stddev	.00019	.38	.00006	.00011	.002	.00175	.00089	.330	.00038
%RSD	.88363	.28325	.76244	.98340	.0425	157.97	40.430	.92913	59.972

#1	.02088	133.74	.00789	-.01127	4.414	.00235	.00283	35.782	.00091
#2	.02115	133.21	.00798	-.01143	4.411	-.00013	.00157	35.315	.00037

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				120.00					
Low Limit				-.00500					

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F 32.780	.06376	-.00372	.00673	.01653
Stddev	.151	.00134	.00090	.00005	.00032
%RSD	.46203	2.0939	24.094	.70287	1.9111

#1	32.673	.06470	-.00435	.00670	.01631
#2	32.887	.06281	-.00308	.00677	.01676

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	10.000				
Low Limit	-.00500				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3750.5	6660.3	77152.	10171.
Stddev	4.2	5.9	64.	27.
%RSD	.11150	.08877	.08353	.26776

#1	3753.5	6656.1	77107.	10152.
#2	3747.5	6664.4	77198.	10191.

Sample Name: 480-45191-M-1-A Acquired: 9/11/2013 20:53:25 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00076	.10407	.00162	.02972	.03765	.00002	26.030	.00006	.00007
Stddev	.00021	.00449	.00304	.00033	.00010	.00006	.080	.00011	.00007
%RSD	27.255	4.3116	187.22	1.1234	.26097	390.05	.30615	172.84	101.87

#1	.00061	.10724	.00377	.02948	.03772	.00006	26.087	-.00001	.00012
#2	.00091	.10089	-.00053	.02995	.03758	-.00003	25.974	.00014	.00002

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00054	-.00018	.01107	1.5899	1.7309	.00140	6.5475	.00144	.00135
Stddev	.00020	.00028	.00055	.0021	.0054	.00067	.0163	.00004	.00066
%RSD	36.529	160.99	4.9615	.13028	.30958	48.032	.24931	3.1139	49.003

#1	.00040	-.00038	.01146	1.5884	1.7347	.00092	6.5359	.00147	.00182
#2	.00068	.00002	.01068	1.5913	1.7271	.00187	6.5590	.00140	.00088

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00033	42.819	.00006	-.00068	6.612	-.00233	-.00052	2.9094	-.00037
Stddev	.00001	.065	.00004	.00125	.030	.00035	.00166	.0555	.00024
%RSD	4.4225	.15288	74.265	183.58	.4548	15.078	318.25	1.9076	64.951

#1	.00034	42.866	.00009	.00020	6.591	-.00208	-.00169	2.9487	-.00054
#2	.00032	42.773	.00003	-.00157	6.634	-.00258	.00065	2.8702	-.00020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.08095	.00042	-.00131	.00042	.00072
Stddev	.00030	.00012	.00113	.00008	.00015
%RSD	.36545	29.510	86.315	18.753	21.092

#1	.08116	.00050	-.00211	.00048	.00083
#2	.08074	.00033	-.00051	.00036	.00062

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4575.5	7420.9	85034.	10338.
Stddev	4.5	13.7	158.	42.
%RSD	.09886	.18472	.18543	.40522

#1	4578.7	7430.6	85145.	10308.
#2	4572.3	7411.2	84922.	10367.

Sample Name: 480-45399-M-1-A Acquired: 9/11/2013 20:56:14 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00216	4.7722	.63912	1.1794	.50398	.00080	64.823	-0.00005	.05279
Stddev	.00026	.0289	.00047	.0019	.00319	.00001	.263	.00016	.00036
%RSD	12.252	.60532	.07430	.15821	.63306	.80103	.40594	292.75	.68200

#1	.00197	4.7518	.63878	1.1808	.50624	.00081	65.009	-0.00017	.05254
#2	.00235	4.7926	.63945	1.1781	.50172	.00080	64.637	.00006	.05305

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.34036	.01921	2.8279	F 906.70	70.003	.04338	208.70	.47307	.50696
Stddev	.00152	.00002	.0055	.95	1.031	.00096	.60	.00138	.00372
%RSD	.44582	.08447	.19284	.10497	1.4730	2.2098	.28863	.29200	.73312

#1	.34143	.01922	2.8318	906.03	70.732	.04406	209.12	.47405	.50958
#2	.33929	.01920	2.8241	907.38	69.274	.04270	208.27	.47210	.50433

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				600.00					
Low Limit				-.50000					

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02419	178.35	.48975	-.00263	F 273.6	.00563	.00925	11.538	.00772
Stddev	.00012	.45	.00094	.00109	.2	.00046	.00070	.096	.00033
%RSD	.51461	.25491	.19200	41.435	.0640	8.1399	7.5850	.82983	4.2586

#1	.02428	178.67	.48908	-.00341	273.7	.00531	.00876	11.606	.00795
#2	.02410	178.03	.49041	-.00186	273.5	.00596	.00975	11.470	.00749

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.46860	2.6995	-.00772	.66780	.04956
Stddev	.00203	.0137	.00061	.00596	.00100
%RSD	.43344	.50792	7.8870	.89285	2.0135

#1	.47003	2.7092	-.00728	.67201	.05027
#2	.46716	2.6898	-.00815	.66358	.04886

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3724.4	6687.9	75706.	10260.
Stddev	5.1	13.6	273.	33.
%RSD	.13718	.20300	.35998	.31782

#1	3720.8	6678.3	75513.	10237.
#2	3728.0	6697.5	75898.	10283.

Sample Name: CCV Acquired: 9/11/2013 20:59:20 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49923	25.203	.49475	.48139	.49622	.50053	24.939	.48110	.48706	.49785	.49157	24.334
Stddev	.00131	.035	.00083	.00072	.00187	.00039	.023	.00067	.00023	.00024	.00187	.044
%RSD	.26219	.13876	.16787	.14871	.37620	.07873	.09324	.13946	.04733	.04857	.38000	.17985

#1	.49831	25.178	.49416	.48088	.49490	.50025	24.955	.48063	.48689	.49768	.49025	24.365
#2	.50016	25.228	.49533	.48189	.49754	.50081	24.923	.48158	.48722	.49802	.49289	24.303

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	25.174	F 15.930	.48659	23.778	.49727	.48830	.48058	24.151	.49067	.49254	24.77	.50377
Stddev	.007	1.092	.00142	.040	.00043	.00428	.00013	.038	.00076	.00338	.03	.00044
%RSD	.02638	6.8561	.29131	.16752	.08678	.87740	.02684	.15654	.15403	.68718	.1244	.08709

#1	25.169	15.158	.48558	23.750	.49696	.48527	.48049	24.125	.49014	.49014	24.75	.50408
#2	25.178	16.702	.48759	23.807	.49757	.49133	.48067	24.178	.49120	.49493	24.80	.50346

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		25.000										
Range		-10.000%										

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48393	25.200	.48455	.49108	.48258	.49108	.48631	.49242
Stddev	.00245	.012	.00118	.00099	.00149	.00107	.00119	.00127
%RSD	.50680	.04696	.24262	.20208	.30874	.21793	.24527	.25792

#1	.48567	25.208	.48372	.49038	.48363	.49032	.48546	.49152
#2	.48220	25.192	.48538	.49178	.48153	.49184	.48715	.49332

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4515.8	7544.5	85147.	10241.
Stddev	4.3	4.5	230.	55.
%RSD	.09624	.06029	.26968	.53549
#1	4518.9	7547.7	85309.	10202.
#2	4512.7	7541.2	84985.	10280.

Sample Name: CCB Acquired: 9/11/2013 21:02:07 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00011	.02211	.00003	.00154	.00013	.00011	.01690	.00006	.00013	.00037	-.00015	.00610
Stddev	.00023	.02105	.00055	.00001	.00000	.00007	.00099	.00014	.00005	.00009	.00024	.00065
%RSD	202.94	95.184	1859.3	.52917	.39747	67.586	5.8614	235.50	40.474	24.205	155.22	10.604

#1	-.00005	.00723	-.00036	.00154	.00013	.00016	.01760	-.00004	.00017	.00030	.00002	.00564
#2	.00028	.03699	.00042	.00153	.00013	.00006	.01620	.00016	.00009	.00043	-.00032	.00656

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.30931	.07550	-.00097	.02640	.00018	.00023	.00020	.03307	-.00008	-.00170	F .0369	-.00141
Stddev	.02416	.00292	.00067	.00518	.00001	.00031	.00026	.00377	.00023	.00090	.0004	.00165
%RSD	7.8119	3.8690	69.578	19.633	6.4172	133.95	132.76	11.384	287.03	52.993	.9676	116.65

#1	.32640	.07757	-.00049	.02273	.00017	.00045	.00001	.03041	.00008	-.00107	.0372	-.00258
#2	.29223	.07344	-.00144	.03006	.00019	.00001	.00038	.03574	-.00024	-.00234	.0367	-.00025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00018	.04769	-.00030	.00083	.00059	-.00070	-.00003	-.00053
Stddev	.00047	.00125	.00012	.00010	.00005	.00187	.00007	.00005
%RSD	270.38	2.6135	38.430	11.860	9.1721	267.83	246.88	9.5856

#1	-.00016	.04681	-.00038	.00090	.00063	.00062	-.00008	-.00049
#2	.00051	.04858	-.00022	.00076	.00055	-.00202	.00002	-.00057

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4882.6	7638.8	88533.	10491.
Stddev	1.9	3.7	3.	27.
%RSD	.03792	.04845	.00286	.25537
#1	4883.9	7636.2	88531.	10473.
#2	4881.3	7641.4	88535.	10510.

Sample Name: 480-45399-M-2-A Acquired: 9/11/2013 21:04:59 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00008	.11741	.01347	.04917	.10958	.00002	102.98	.00009	.00124
Stddev	.00005	.00394	.00147	.00021	.00022	.00003	.03	.00000	.00017
%RSD	63.244	3.3577	10.926	.42122	.20065	105.18	.02590	3.4999	13.359

#1	-0.00004	.12020	.01451	.04903	.10943	.00004	103.00	.00009	.00113
#2	-0.00011	.11462	.01243	.04932	.10974	.00001	102.96	.00008	.00136

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05879	.11673	8.8670	25.664	24.882	.00142	22.298	.67889	.67760
Stddev	.00004	.00067	.0028	.043	.408	.00062	.081	.00137	.00316
%RSD	.06759	.57164	.03124	.16837	1.6407	43.876	.36350	.20166	.46686

#1	.05876	.11625	8.8650	25.694	25.171	.00098	22.356	.67986	.67984
#2	.05882	.11720	8.8689	25.633	24.593	.00186	22.241	.67793	.67537

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00218	7.6656	.01499	-0.00101	F 20.83	-0.00147	.00000	4.4123	.00023
Stddev	.00010	.0194	.00001	.00034	.01	.00038	.00117	.0236	.00001
%RSD	4.3831	.25346	.06965	33.448	.0249	26.004	477840.	.53386	5.7610

#1	.00225	7.6793	.01500	-0.00077	20.84	-0.00174	.00083	4.3956	.00022
#2	.00211	7.6518	.01499	-0.00125	20.83	-0.00120	-0.00083	4.4289	.00024

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.27609	.06463	-0.00230	.02251	.06076
Stddev	.00025	.00001	.00045	.00006	.00050
%RSD	.09045	.01975	19.494	.28217	.81606

#1	.27627	.06462	-0.00262	.02256	.06111
#2	.27591	.06464	-0.00198	.02247	.06041

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4418.5	7292.2	83413.	10356.
Stddev	.9	2.3	330.	15.
%RSD	.01968	.03200	.39547	.14911

#1	4419.1	7290.6	83180.	10367.
#2	4417.9	7293.9	83646.	10345.

Sample Name: 480-45408-F-1-A Acquired: 9/11/2013 21:07:50 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00230	715.32	.25732	2.3987	F 37.280	.00056	855.19	-0.00085	F -.01482
Stddev	.00016	1.00	.01379	.0012	.069	.00003	1.00	.00029	.00007
%RSD	6.9455	.13987	5.3594	.04946	.18483	4.9713	.11677	34.166	.47633
#1	-0.00241	716.03	.24757	2.3978	37.231	.00058	854.49	-0.00065	-.01477
#2	-0.00218	714.62	.26707	2.3995	37.329	.00054	855.90	-0.00106	-.01487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					10.000				20.000
Low Limit					-.00200				-.00400
Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.01230	.05628	F 2635.9	81.009	74.813	.07023	97.338	14.492	F 17.345
Stddev	.00045	.00014	.9	.0097	.282	.00044	.032	.019	.027
%RSD	3.6885	.25577	.03306	.11986	.37655	.62739	.03280	.12872	.15703
#1	-0.01262	.05638	2636.5	81.077	74.613	.06992	97.316	14.478	17.326
#2	-0.01198	.05618	2635.3	80.940	75.012	.07054	97.361	14.505	17.364
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit	40.000		800.00						15.000
Low Limit	-.00400		-.05000						-.00300
Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F -.01281	99.502	.01830	F -.19864	F 13.48	F -.03387	.00219	751.90	.03202
Stddev	.00069	.216	.00107	.00377	.00	.00146	.00095	1.37	.00003
%RSD	5.3891	.21719	5.8441	1.8976	.0352	4.3187	43.238	.18174	.08255
#1	-0.01232	99.655	.01906	-.19598	13.48	-.03491	.00152	752.87	.03200
#2	-0.01330	99.350	.01754	-.20131	13.48	-.03284	.00287	750.94	.03204
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit	10.000			120.00	10.00	50.000			
Low Limit	-.01000			-.00500	-.0100	-.02000			
Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062				
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}				
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)				
Units	ppm	ppm	ppm	ppm	ppm				
Avg	F 15.328	.06177	F -.02930	.07258	.42630				
Stddev	.160	.00064	.00188	.00059	.00146				
%RSD	1.0470	1.0348	6.4317	.81771	.34344				
#1	15.214	.06222	-.02797	.07216	.42733				
#2	15.441	.06132	-.03063	.07300	.42526				
Check ?	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass				
High Limit	10.000		40.000						
Low Limit	-.00500		-.02000						
Int. Std.	In2306	Y_2243	Y_3600	Y_3774					
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	3403.7	6395.0	72477.	9090.8					
Stddev	6.1	6.7	48.	4.7					
%RSD	.18064	.10421	.06639	.05216					
#1	3408.0	6399.7	72511.	9094.1					
#2	3399.3	6390.3	72443.	9087.4					

Sample Name: 480-45387-C-2-A Acquired: 9/11/2013 21:11:06 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00044	.37368	.07177	15.340	.55439	.00008	85.058	.00038	.05036
Stddev	.00074	.00573	.00452	.001	.00186	.00001	.177	.00015	.00013
%RSD	169.64	1.5342	6.2962	.00337	.33525	13.170	.20773	40.787	.26519

#1	-.00009	.37773	.06857	15.340	.55570	.00009	85.183	.00027	.05046
#2	.00096	.36962	.07496	15.340	.55308	.00007	84.933	.00048	.05027

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.14294	.00854	3.8562	518.95	94.698	.09036	86.216	.43224	.48116
Stddev	.00048	.00048	.0014	1.02	4.476	.00012	.237	.00126	.00070
%RSD	.33792	5.6669	.03669	.19720	4.7268	.13444	.27481	.29077	.14558

#1	.14260	.00888	3.8552	519.67	97.864	.09028	86.384	.43313	.48066
#2	.14328	.00820	3.8572	518.22	91.533	.09045	86.049	.43135	.48165

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00831	1426.0	.25349	-.00258	F 31.85	.00634	.00665	17.228	.02680
Stddev	.00012	3.5	.00053	.00111	.01	.00104	.00218	.083	.00006
%RSD	1.3911	.24683	.21076	42.831	.0269	16.361	32.702	.47922	.22065

#1	.00823	1423.5	.25386	-.00337	31.85	.00561	.00511	17.169	.02684
#2	.00839	1428.5	.25311	-.00180	31.84	.00708	.00819	17.286	.02676

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.91719	.17826	-.00499	.09191	.06497
Stddev	.00091	.00031	.00140	.00035	.00022
%RSD	.09894	.17554	28.030	.38155	.33950

#1	.91783	.17848	-.00400	.09167	.06482
#2	.91655	.17804	-.00597	.09216	.06513

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3472.0	6358.9	70170.	9942.4
Stddev	12.1	24.4	166.	40.8
%RSD	.34905	.38341	.23696	.41015

#1	3463.5	6341.7	70052.	9913.5
#2	3480.6	6376.1	70288.	9971.2

Sample Name: 480-45110-N-3-D Acquired: 9/11/2013 21:14:07 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00085	.05929	.00153	.14077	.06362	-.00003	73.894	.00019	.00030
Stddev	.00021	.01068	.00102	.00170	.00009	.00007	.117	.00002	.00003
%RSD	24.709	18.011	66.738	1.2064	.14503	241.55	.15798	11.670	10.684

#1	.00070	.06684	.00225	.14197	.06369	.00002	73.976	.00017	.00028
#2	.00100	.05174	.00081	.13957	.06356	-.00008	73.811	.00020	.00032

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00171	.28375	.20264	3.1295	3.3339	.00300	30.872	.03565	.03606
Stddev	.00004	.00056	.00076	.0518	.0974	.00103	.008	.00004	.00020
%RSD	2.3222	.19692	.37751	1.6567	2.9213	34.261	.02600	.12118	.56160

#1	.00168	.28415	.20318	3.1661	3.2650	.00372	30.867	.03562	.03621
#2	.00174	.28336	.20210	3.0928	3.4028	.00227	30.878	.03568	.03592

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00149	197.29	.01277	-.00121	F 115.9	-.00011	-.00128	5.4658	.00195
Stddev	.00006	.16	.00000	.00178	.1	.00194	.00123	.0123	.00013
%RSD	4.2482	.07977	.03227	147.26	.0441	1736.5	96.009	.22455	6.6306

#1	.00145	197.40	.01277	-.00247	115.9	.00126	-.00215	5.4745	.00185
#2	.00153	197.18	.01278	.00005	116.0	-.00149	-.00041	5.4572	.00204

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.30033	.00088	-.00117	.00033	.11113
Stddev	.00029	.00053	.00036	.00023	.00072
%RSD	.09605	59.959	30.543	70.936	.65068

#1	.30053	.00125	-.00142	.00016	.11164
#2	.30012	.00051	-.00092	.00049	.11062

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4268.0	7237.0	82336.	10443.
Stddev	2.0	6.8	70.	9.
%RSD	.04791	.09362	.08535	.08256

#1	4269.4	7241.8	82386.	10449.
#2	4266.5	7232.2	82286.	10437.

Sample Name: 480-44887-A-2-G Acquired: 9/11/2013 21:16:59 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00315	.16508	.00057	.01592	.02238	.00001	9.8052	.00028	-.00006
Stddev	.00052	.01211	.00091	.00040	.00011	.00004	.0071	.00000	.00025
%RSD	16.625	7.3343	160.63	2.5386	.47911	470.66	.07208	.20137	440.24

#1	.00351	.17364	-.00008	.01620	.02245	.00004	9.8101	.00028	-.00023
#2	.00278	.15652	.00121	.01563	.02230	-.00002	9.8002	.00028	.00012

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00485	-.00007	.18343	2.3985	2.0104	.00689	5.2741	.00455	.00407
Stddev	.00016	.00011	.00020	.0030	.0028	.00034	.0193	.00006	.00034
%RSD	3.2068	167.76	.11150	.12616	.14067	5.0017	.36550	1.3772	8.3852

#1	.00496	.00001	.18357	2.3964	2.0124	.00664	5.2604	.00460	.00431
#2	.00474	-.00014	.18328	2.4006	2.0084	.00713	5.2877	.00451	.00383

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00024	6.5956	-.00022	F -.00733	.0934	-.00059	-.00201	21.739	-.00046
Stddev	.00023	.0074	.00006	.00003	.0034	.00126	.00206	.010	.00040
%RSD	98.936	.11162	24.819	.45660	3.656	214.90	102.21	.04593	86.878

#1	.00040	6.5904	-.00026	-.00735	.0958	.00030	-.00056	21.732	-.00018
#2	.00007	6.6008	-.00019	-.00731	.0909	-.00148	-.00346	21.746	-.00075

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				120.00					
Low Limit				-.00500					

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.08025	.01069	-.00202	.00582	.00159
Stddev	.00060	.00006	.00106	.00025	.00023
%RSD	.74935	.59887	52.519	4.2643	14.359

#1	.07983	.01064	-.00127	.00600	.00176
#2	.08068	.01073	-.00277	.00565	.00143

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4802.4	7641.4	87850.	10452.
Stddev	9.0	12.6	98.	14.
%RSD	.18805	.16475	.11154	.12925

#1	4808.8	7650.3	87780.	10462.
#2	4796.0	7632.5	87919.	10443.

Sample Name: 480-44894-F-2-D Acquired: 9/11/2013 21:19:48 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00066	.05075	.00084	.03362	.02640	.00000	19.584	.00017	.00013
Stddev	.00014	.01630	.00094	.00054	.00002	.00008	.035	.00006	.00007
%RSD	20.715	32.112	111.56	1.6175	.07738	2139.7	.17881	37.499	49.601

#1	.00076	.06228	.00150	.03401	.02642	-.00005	19.608	.00021	.00009
#2	.00057	.03923	.00018	.03324	.02639	.00006	19.559	.00012	.00018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00160	.00281	.26978	6.8882	7.2294	-.00002	2.2694	.05933	.05723
Stddev	.00024	.00024	.00243	.0547	.0080	.00083	.0043	.00007	.00050
%RSD	14.785	8.4695	.90136	.79432	.11070	4578.6	.18915	.11387	.86911

#1	.00143	.00265	.26806	6.9269	7.2237	-.00060	2.2664	.05929	.05688
#2	.00177	.00298	.27150	6.8495	7.2350	.00057	2.2724	.05938	.05758

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00041	29.281	.00060	-.00052	3.582	-.00110	-.00319	2.1709	-.00018
Stddev	.00003	.067	.00006	.00055	.019	.00229	.00121	.0179	.00007
%RSD	8.1777	.22928	10.813	105.27	.5214	208.81	37.904	.82634	39.680

#1	.00038	29.233	.00055	-.00013	3.569	-.00272	-.00405	2.1582	-.00024
#2	.00043	29.328	.00064	-.00090	3.595	.00052	-.00234	2.1836	-.00013

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.13479	.00112	-.00153	.00053	.00352
Stddev	.00036	.00014	.00061	.00028	.00020
%RSD	.26862	12.258	40.271	53.327	5.7052

#1	.13454	.00121	-.00109	.00073	.00338
#2	.13505	.00102	-.00196	.00033	.00366

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4665.4	7504.0	86494.	10468.
Stddev	3.5	9.2	1.	64.
%RSD	.07594	.12255	.00131	.61368

#1	4662.9	7497.5	86493.	10423.
#2	4667.9	7510.5	86495.	10513.

Sample Name: 480-45052-C-2-B Acquired: 9/11/2013 21:22:41 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00078	.06279	.00372	.16317	.05939	-.00004	71.963	.00026	-.00003
Stddev	.00009	.01821	.00110	.00032	.00002	.00004	.390	.00000	.00018
%RSD	11.520	29.005	29.479	.19702	.02593	109.56	.54257	.22800	527.32

#1	.00085	.07567	.00450	.16340	.05938	-.00001	71.687	.00026	-.00016
#2	.00072	.04991	.00295	.16295	.05940	-.00007	72.239	.00026	.00009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00134	.00008	.05512	7.6948	9.8307	.00237	14.101	1.0045	1.0096
Stddev	.00016	.00021	.00267	.0426	.0910	.00016	.018	.0006	.0014
%RSD	12.234	276.99	4.8520	.55328	.92551	6.7377	.12429	.05999	.14382

#1	.00123	.00022	.05323	7.6646	9.7663	.00249	14.113	1.0049	1.0086
#2	.00146	-.00007	.05701	7.7249	9.8950	.00226	14.088	1.0041	1.0106

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00200	87.697	.00123	-.00295	F 41.73	-.00336	-.00020	7.0323	-.00032
Stddev	.00029	.060	.00049	.00062	.05	.00207	.00060	.0083	.00040
%RSD	14.255	.06887	39.787	20.880	.1106	61.513	298.17	.11760	124.91

#1	.00221	87.654	.00157	-.00251	41.77	-.00190	-.00062	7.0264	-.00004
#2	.00180	87.740	.00088	-.00338	41.70	-.00482	.00022	7.0381	-.00060

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.24569	.00029	-.00241	.00059	.00117
Stddev	.00004	.00015	.00111	.00002	.00030
%RSD	.01535	51.661	45.885	3.1856	25.724

#1	.24572	.00040	-.00320	.00057	.00096
#2	.24566	.00018	-.00163	.00060	.00139

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4395.9	7274.0	83506.	10522.
Stddev	9.8	4.9	79.	68.
%RSD	.22215	.06693	.09477	.64268

#1	4389.0	7270.6	83562.	10570.
#2	4402.8	7277.5	83450.	10474.

Sample Name: 480-45121-D-12-C Acquired: 9/11/2013 21:25:33 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00076	3.6888	.00435	.08697	.14734	.00008	137.83	.00143	.00836
Stddev	.00011	.0280	.00214	.00000	.00030	.00005	.11	.00005	.00009
%RSD	14.633	.75843	49.100	.00136	.20636	71.567	.08193	3.4787	1.0733

#1	.00068	3.6690	.00284	.08697	.14755	.00012	137.75	.00139	.00830
#2	.00084	3.7085	.00586	.08697	.14712	.00004	137.91	.00146	.00842

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.32292	.01239	5.2323	2.8411	5.0691	.01289	93.929	.42663	.45419
Stddev	.00141	.00003	.00095	.0382	.0117	.00015	.086	.00048	.00085
%RSD	.43815	.27355	.18229	1.3463	.22981	1.1842	.09163	.11243	.18671

#1	.32392	.01241	5.2255	2.8681	5.0608	.01279	93.990	.42697	.45478
#2	.32192	.01236	5.2390	2.8140	5.0773	.01300	93.868	.42629	.45359

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01250	591.28	.25458	.00384	F 66.50	-.00301	-.00104	12.062	.00041
Stddev	.00009	.69	.00033	.00069	.03	.00025	.00376	.044	.00059
%RSD	.69705	.11693	.12778	18.026	.0410	8.2552	361.40	.36180	145.05

#1	.01256	590.79	.25481	.00335	66.48	-.00284	-.00370	12.031	-.00001
#2	.01244	591.77	.25435	.00433	66.52	-.00319	.00162	12.093	.00083

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.47907	.06552	-.00289	.00692	.08756
Stddev	.00151	.00087	.00006	.00045	.00060
%RSD	.31556	1.3234	2.1538	6.4548	.68398

#1	.47800	.06613	-.00285	.00723	.08714
#2	.48014	.06491	-.00294	.00660	.08798

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3867.3	6870.0	77008.	10176.
Stddev	1.9	8.9	226.	8.
%RSD	.05032	.13003	.29351	.08019

#1	3865.9	6876.3	76849.	10182.
#2	3868.7	6863.7	77168.	10171.

Sample Name: MB 480-138216/1-A Acquired: 9/11/2013 21:28:24 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00062	.03017	-.00054	.00509	.00015	-.00004	.03418	.00017	.00005
Stddev	.00009	.01392	.00125	.00004	.00002	.00008	.00037	.00004	.00007
%RSD	13.908	46.141	231.42	.76129	15.719	177.50	1.0751	25.194	135.76

#1	.00056	.04001	-.00143	.00512	.00013	.00001	.03444	.00020	.00000
#2	.00068	.02032	.00034	.00506	.00016	-.00010	.03392	.00014	.00011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00029	-.00031	.01567	.16261	.02796	-.00061	.00577	.00041	.00063
Stddev	.00003	.00005	.00080	.01748	.00046	.00010	.00284	.00000	.00030
%RSD	11.866	15.010	5.1373	10.751	1.6393	15.995	49.126	1.2139	48.116

#1	.00031	-.00034	.01510	.15025	.02828	-.00068	.00778	.00041	.00041
#2	.00026	-.00027	.01623	.17497	.02763	-.00054	.00377	.00041	.00084

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00008	.07055	-.00019	-.00097	F .0197	-.00027	-.00166	.18505	F .02938
Stddev	.00002	.00131	.00025	.00133	.0008	.00048	.00087	.00492	.00057
%RSD	30.088	1.8594	133.71	136.62	4.268	174.33	52.601	2.6589	1.9564

#1	.00006	.07148	-.00001	-.00191	.0203	-.00061	-.00227	.18157	.02979
#2	.00010	.06963	-.00036	-.00003	.0191	.00006	-.00104	.18853	.02898

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit					.0030				.01000
Low Limit					-.0040				-.01000

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00031	.00055	-.00329	.00009	.00094
Stddev	.00002	.00050	.00074	.00017	.00030
%RSD	7.0645	91.744	22.659	185.41	31.703

#1	.00029	.00090	-.00276	.00021	.00073
#2	.00032	.00019	-.00381	-.00003	.00115

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4814.6	7515.8	87020.	10282.
Stddev	6.7	30.2	15.	3.
%RSD	.13833	.40207	.01670	.02597

#1	4809.9	7494.4	87010.	10284.
#2	4819.3	7537.2	87030.	10280.

Sample Name: LCSSRM 480-138216/2- Acquired: 9/11/2013 21:31:15 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.58202	74.241	1.7904	1.0105	1.3400	.99212	56.232	.56809	1.6492
Stddev	.00084	.087	.0049	.0003	.0007	.00001	.083	.00033	.0011
%RSD	.14491	.11750	.27457	.02741	.05385	.00073	.14718	.05804	.06667

#1	.58143	74.303	1.7938	1.0107	1.3405	.99213	56.174	.56832	1.6484
#2	.58262	74.179	1.7869	1.0103	1.3395	.99212	56.291	.56786	1.6499

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1864	.78100	110.26	25.514	24.991	.07253	22.992	2.7519	2.7172
Stddev	.0014	.00086	.34	.045	.249	.00058	.058	.0051	.0054
%RSD	.11627	.11038	.31198	.17784	.99753	.80533	.25271	.18575	.20007

#1	1.1855	.78161	110.50	25.482	25.167	.07294	22.951	2.7483	2.7211
#2	1.1874	.78039	110.02	25.546	24.814	.07212	23.033	2.7556	2.7134

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.42540	4.0277	1.3004	1.3925	2.209	.86154	.83538	9.5836	1.5256
Stddev	.00082	.0047	.0015	.0019	.003	.00104	.00340	.0575	.0006
%RSD	.19367	.11723	.11639	.13488	.1260	.12060	.40713	.59983	.03981

#1	.42598	4.0243	1.3015	1.3938	2.211	.86227	.83779	9.6242	1.5260
#2	.42482	4.0310	1.2994	1.3912	2.207	.86080	.83298	9.5429	1.5252

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	None	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0407	2.6414	1.4619	.96253	1.9045
Stddev	.0020	.0140	.0053	.00252	.0081
%RSD	.19235	.53120	.36301	.26196	.42409

#1	1.0393	2.6315	1.4657	.96074	1.8988
#2	1.0421	2.6513	1.4582	.96431	1.9102

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4344.6	7674.0	87110.	10645.
Stddev	7.7	14.5	148.	3.
%RSD	.17827	.18904	.17012	.02808

#1	4339.1	7663.8	87005.	10647.
#2	4350.1	7684.3	87215.	10643.

Sample Name: CCV Acquired: 9/11/2013 21:34:02 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49209	24.701	.49747	.48358	.48702	.49746	24.563	.48441	.48782	.49689	.48776	24.210
Stddev	.00120	.104	.00109	.00083	.00119	.00117	.070	.00046	.00035	.00146	.00099	.122
%RSD	.24462	.42169	.21879	.17266	.24380	.23577	.28317	.09500	.07248	.29336	.20250	.50290

#1	.49124	24.628	.49670	.48417	.48618	.49663	24.514	.48474	.48807	.49586	.48706	24.124
#2	.49294	24.775	.49824	.48299	.48786	.49829	24.612	.48409	.48757	.49792	.48845	24.297

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.506	24.858	.48048	23.988	.50128	.49256	.48556	24.016	.49248	.49331	24.79	.50684
Stddev	.049	.055	.00078	.073	.00186	.00499	.00013	.082	.00038	.00054	.02	.00036
%RSD	.19904	.22034	.16132	.30463	.37022	1.0141	.02663	.34198	.07717	.10948	.0923	.07162

#1	24.472	24.897	.47994	23.936	.49997	.48903	.48547	23.958	.49221	.49293	24.77	.50658
#2	24.540	24.819	.48103	24.039	.50259	.49609	.48565	24.074	.49275	.49369	24.81	.50709

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48529	24.799	.48939	.48643	.48633	.49467	.48131	.49350
Stddev	.00038	.099	.00041	.00180	.00059	.00034	.00141	.00086
%RSD	.07760	.40110	.08464	.37052	.12044	.06777	.29365	.17329

#1	.48503	24.728	.48968	.48516	.48674	.49443	.48031	.49290
#2	.48556	24.869	.48910	.48771	.48591	.49491	.48231	.49411

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4556.7	7620.0	86707.	10514.
Stddev	6.6	13.8	421.	41.
%RSD	.14562	.18160	.48560	.38760
#1	4561.3	7629.8	87005.	10543.
#2	4552.0	7610.2	86410.	10485.

Sample Name: CCB Acquired: 9/11/2013 21:36:49 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00039	.03349	.00092	.00275	.00014	.00005	.00649	.00002	.00012	.00036	-.00039	.01155
Stddev	.00114	.01110	.00079	.00042	.00001	.00006	.00054	.00007	.00013	.00022	.00024	.00074
%RSD	288.78	33.134	86.100	15.350	6.9852	133.63	8.3953	363.42	108.63	61.970	61.264	6.4281

#1	.00120	.04134	.00148	.00305	.00014	.00009	.00687	.00007	.00003	.00052	-.00022	.01103
#2	-.00041	.02565	.00036	.00245	.00013	.00000	.00610	-.00003	.00022	.00020	-.00056	.01208

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10807	.00616	-.00043	.00392	.00026	.00014	.00029	.01543	-.00015	.00038	F .0075	-.00143
Stddev	.00605	.00024	.00003	.00196	.00003	.00006	.00010	.00077	.00001	.00027	.0015	.00108
%RSD	5.5953	3.9680	7.2515	50.021	13.313	43.491	33.437	4.9622	9.2168	70.889	20.24	75.253

#1	.10379	.00633	-.00041	.00531	.00028	.00019	.00036	.01489	-.00014	.00058	.0085	-.00067
#2	.11234	.00599	-.00045	.00254	.00023	.00010	.00022	.01597	-.00016	.00019	.0064	-.00220

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00196	.05046	-.00038	.00016	.00037	.00002	.00026	-.00088
Stddev	.00067	.00459	.00009	.00001	.00011	.00029	.00007	.00001
%RSD	34.277	9.1063	23.865	9.1011	31.171	1552.2	27.043	1.3321

#1	-.00244	.05371	-.00032	.00015	.00045	-.00019	.00031	-.00087
#2	-.00149	.04721	-.00045	.00017	.00029	.00022	.00021	-.00088

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4927.1	7711.5	88673.	10539.
Stddev	6.8	7.4	158.	46.
%RSD	.13702	.09573	.17775	.43443
#1	4922.3	7706.2	88561.	10507.
#2	4931.8	7716.7	88784.	10572.

Sample Name: 480-45385-B-1-A Acquired: 9/11/2013 21:39:41 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00269	69.705	.10707	.04141	1.3833	.00449	153.66	.00366	.07843
Stddev	.00088	.222	.00436	.00063	.0065	.00006	.48	.00000	.00031
%RSD	32.869	.31840	4.0695	1.5281	.47145	1.2624	.31555	.01453	.39453

#1	.00206	69.862	.11015	.04186	1.3879	.00445	153.31	.00366	.07865
#2	.00331	69.548	.10399	.04096	1.3787	.00453	154.00	.00366	.07821

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.58117	.84548	468.93	6.5966	7.8701	.11375	37.996	7.1218	7.4362
Stddev	.00247	.00099	.15	.0045	.0997	.00012	.054	.0382	.0595
%RSD	.42426	.11736	.03208	.06757	1.2663	.10775	.14177	.53568	.80006

#1	.58291	.84619	469.03	6.5997	7.7996	.11384	38.034	7.1488	7.4782
#2	.57942	.84478	468.82	6.5934	7.9406	.11367	37.958	7.0948	7.3941

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00580	.61765	.26543	1.9248	3.129	.04471	.00135	9.7753	.09340
Stddev	.00023	.01148	.00010	.0009	.000	.00200	.00324	.0360	.00010
%RSD	4.0133	1.8593	.03624	.04817	.0105	4.4720	239.62	.36861	.10428

#1	.00597	.60953	.26537	1.9241	3.129	.04330	.00364	9.8008	.09334
#2	.00564	.62577	.26550	1.9254	3.129	.04612	-.00094	9.7498	.09347

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.38117	1.2786	-.00620	.13246	1.3881
Stddev	.00025	.0032	.00326	.00044	.0071
%RSD	.06605	.25071	52.688	.33516	.51243

#1	.38135	1.2763	-.00389	.13278	1.3931
#2	.38099	1.2809	-.00850	.13215	1.3831

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4137.7	7532.6	86387.	10718.
Stddev	4.6	14.0	533.	43.
%RSD	.11153	.18581	.61676	.39838

#1	4134.5	7522.7	86011.	10748.
#2	4141.0	7542.5	86764.	10688.

Sample Name: 480-45385-B-1-A SD@5 Acquired: 9/11/2013 21:42:44 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00099	14.862	.02472	.01009	.29589	.00098	33.829	.00087	.01609
Stddev	.00004	.014	.00012	.00009	.00017	.00007	.153	.00001	.00031
%RSD	4.0874	.09160	.46536	.87074	.05847	7.6235	.45233	1.0347	1.9371

#1	.00102	14.871	.02480	.01002	.29601	.00093	33.937	.00088	.01631
#2	.00096	14.852	.02464	.01015	.29576	.00104	33.720	.00087	.01587

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.12890	.17707	103.83	1.4891	1.4318	.02359	8.6138	1.6516	1.5846
Stddev	.00011	.00024	.30	.0223	.0056	.00093	.0498	.0022	.0020
%RSD	.08850	.13566	.28702	1.5004	.39093	3.9481	.57851	.13448	.12735

#1	.12898	.17724	104.05	1.5049	1.4357	.02293	8.6491	1.6532	1.5861
#2	.12882	.17690	103.62	1.4733	1.4278	.02425	8.5786	1.6501	1.5832

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00129	.12524	.05531	.40211	.6706	.00876	.00069	2.0652	.01894
Stddev	.00025	.00614	.00044	.00127	.0002	.00006	.00148	.0221	.00057
%RSD	19.389	4.9047	.79134	.31617	.0260	.69755	213.05	1.0680	2.9858

#1	.00147	.12090	.05500	.40301	.6707	.00872	-.00035	2.0496	.01934
#2	.00112	.12958	.05562	.40121	.6705	.00881	.00174	2.0808	.01854

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.08150	.28047	-.00057	.02850	.31813
Stddev	.00000	.00093	.00089	.00035	.00050
%RSD	.00376	.33146	155.74	1.2392	.15784

#1	.08150	.27981	-.00120	.02875	.31849
#2	.08150	.28112	.00006	.02825	.31778

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4639.5	7686.0	88159.	10580.
Stddev	8.5	12.1	197.	52.
%RSD	.18231	.15780	.22295	.48917

#1	4645.4	7694.6	88020.	10543.
#2	4633.5	7677.5	88298.	10616.

Sample Name: 480-45385-B-1-A PDS Acquired: 9/11/2013 21:45:29 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10329	86.877	.50588	.42013	1.7184	.40758	165.75	.38976	.48620
Stddev	.00049	.114	.00286	.00095	.0068	.00018	.88	.00078	.00113
%RSD	.47282	.13101	.56438	.22597	.39766	.04501	.53349	.19893	.23227

#1	.10364	86.958	.50386	.41946	1.7233	.40745	165.12	.38921	.48540
#2	.10295	86.797	.50790	.42080	1.7136	.40771	166.37	.39031	.48700

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.92929	1.2004	467.29	26.119	28.875	.51668	55.343	7.1542	7.4654
Stddev	.00446	.0009	.80	.060	.106	.00272	.123	.0037	.0500
%RSD	.48032	.07827	.17089	.23158	.36664	.52657	.22183	.05194	.67023

#1	.93244	1.2010	466.73	26.162	28.950	.51860	55.430	7.1569	7.5008
#2	.92613	1.1997	467.86	26.076	28.800	.51476	55.256	7.1516	7.4300

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.38502	20.124	.66134	2.2409	2.986	.43281	.39768	29.864	.47872
Stddev	.00113	.001	.00009	.0003	.007	.00042	.00104	.058	.00167
%RSD	.29270	.00488	.01331	.01512	.2252	.09771	.26243	.19504	.34797

#1	.38423	20.123	.66128	2.2406	2.991	.43251	.39694	29.905	.47754
#2	.38582	20.125	.66140	2.2411	2.981	.43311	.39842	29.823	.47990

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.74735	1.5918	.40120	.51052	1.6683
Stddev	.00061	.0013	.00169	.00202	.0116
%RSD	.08199	.07822	.42201	.39482	.69271

#1	.74778	1.5909	.40240	.51195	1.6764
#2	.74691	1.5927	.40001	.50910	1.6601

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4059.3	7492.7	85756.	10627.
Stddev	2.1	6.3	400.	39.
%RSD	.05196	.08365	.46632	.36850

#1	4057.8	7488.2	85473.	10655.
#2	4060.7	7497.1	86039.	10599.

Sample Name: 480-45385-B-1-B MS Acquired: 9/11/2013 21:48:33 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11076	111.32	.47020	.43544	2.0700	.38455	236.67	.37555	.46712
Stddev	.00065	.33	.00424	.00010	.0117	.00026	.64	.00108	.00008
%RSD	.58828	.29559	.90142	.02278	.56305	.06798	.27222	.28740	.01788

#1	.11030	111.09	.47320	.43537	2.0617	.38473	237.13	.37479	.46706
#2	.11122	111.56	.46720	.43551	2.0782	.38436	236.21	.37632	.46718

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.1432	1.4401	354.61	33.115	33.821	.50432	68.818	5.9173	6.2603
Stddev	.0001	.0020	.37	.029	.355	.00305	.053	.0276	.0091
%RSD	.01027	.13679	.10331	.08728	1.0510	.60399	.07721	.46618	.14479

#1	1.1431	1.4415	354.35	33.094	34.072	.50217	68.855	5.9368	6.2539
#2	1.1433	1.4387	354.87	33.135	33.570	.50648	68.780	5.8978	6.2667

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.36840	19.722	.68210	2.4728	2.637	.35753	.37170	31.398	.46146
Stddev	.00005	.016	.00098	.0032	.000	.00145	.00021	.003	.00123
%RSD	.01438	.08159	.14348	.12986	.0084	.40637	.05690	.01061	.26658

#1	.36836	19.710	.68279	2.4705	2.637	.35651	.37155	31.401	.46233
#2	.36843	19.733	.68141	2.4750	2.637	.35856	.37185	31.396	.46059

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.81728	2.0882	.37801	.52951	2.0191
Stddev	.00139	.0018	.00044	.00156	.0033
%RSD	.17069	.08622	.11535	.29493	.16517

#1	.81629	2.0869	.37831	.53061	2.0215
#2	.81826	2.0895	.37770	.52840	2.0168

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3973.0	7535.3	86445.	10880.
Stddev	2.8	1.7	122.	46.
%RSD	.07062	.02273	.14167	.41888

#1	3971.0	7534.1	86359.	10848.
#2	3974.9	7536.5	86532.	10912.

Sample Name: 480-45385-B-1-C MSD Acquired: 9/11/2013 21:51:38 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09994	114.51	.51005	.42989	3.1018	.38596	174.36	.37553	.48030
Stddev	.00047	.33	.00561	.00039	.0075	.00067	.24	.00061	.00004
%RSD	.47276	.28943	1.0990	.08978	.24215	.17279	.14019	.16290	.00789

#1	.09961	114.28	.51402	.43016	3.0965	.38549	174.19	.37510	.48033
#2	.10027	114.75	.50609	.42961	3.1071	.38643	174.53	.37596	.48028

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.4247	1.3363	725.78	31.201	31.931	.52554	62.004	6.8770	7.2520
Stddev	.0002	.0002	1.93	.011	.117	.00086	.129	.0068	.0233
%RSD	.01274	.01163	.26531	.03381	.36596	.16340	.20731	.09903	.32102

#1	1.4248	1.3365	724.42	31.193	31.848	.52615	61.913	6.8722	7.2684
#2	1.4245	1.3362	727.14	31.208	32.014	.52493	62.095	6.8818	7.2355

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.37124	19.711	.71589	6.3356	4.968	.41478	.36981	28.714	.49128
Stddev	.00020	.005	.00071	.0031	.008	.00183	.00298	.008	.00071
%RSD	.05355	.02616	.09916	.04868	.1607	.44007	.80511	.02898	.14468

#1	.37110	19.714	.71640	6.3334	4.974	.41607	.37192	28.720	.49078
#2	.37138	19.707	.71539	6.3378	4.962	.41349	.36771	28.708	.49178

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.73710	2.2116	.36349	.53224	1.8672
Stddev	.00026	.0075	.00517	.00163	.0003
%RSD	.03514	.34091	1.4215	.30624	.01764

#1	.73692	2.2062	.36714	.53340	1.8669
#2	.73728	2.2169	.35983	.53109	1.8674

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4008.3	7440.1	85022.	10580.
Stddev	.4	1.5	60.	24.
%RSD	.00885	.02025	.07048	.22814

#1	4008.6	7441.2	84979.	10598.
#2	4008.1	7439.1	85064.	10563.

Sample Name: 480-45385-A-2-A Acquired: 9/11/2013 21:54:42 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0021	107.80	.05759	.06387	.83255	.00588	351.08	.00143	.09735
Stddev	.00046	.02	.00087	.00010	.00184	.00001	1.52	.00005	.00035
%RSD	218.24	.01904	1.5037	.15002	.22101	.12790	.43382	3.8243	.36223

#1	-0.0054	107.78	.05698	.06380	.83386	.00588	350.00	.00140	.09760
#2	.00011	107.81	.05820	.06394	.83125	.00587	352.16	.00147	.09710

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.14627	.20606	186.33	15.818	18.643	.18230	56.249	6.6594	7.0512
Stddev	.00028	.00082	.36	.030	.018	.00143	.125	.0192	.0159
%RSD	.19414	.39646	.19302	.19111	.09636	.78277	.22255	.28797	.22581

#1	.14647	.20664	186.08	15.797	18.656	.18331	56.337	6.6730	7.0624
#2	.14607	.20548	186.59	15.840	18.630	.18129	56.160	6.6458	7.0399

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00320	1.0448	.24507	1.4646	.6176	.02579	.00052	23.697	.03789
Stddev	.00003	.0040	.00137	.0006	.0047	.00135	.00202	.107	.00032
%RSD	1.0338	.37970	.55906	.03990	.7637	5.2453	388.55	.45047	.83546

#1	.00322	1.0476	.24604	1.4641	.6142	.02483	-.00091	23.773	.03766
#2	.00317	1.0420	.24411	1.4650	.6209	.02674	.00195	23.622	.03811

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.65431	1.9183	-.00271	.19853	.47662
Stddev	.00003	.0115	.00325	.00014	.00268
%RSD	.00439	.59693	119.77	.07164	.56178

#1	.65429	1.9264	-.00501	.19863	.47851
#2	.65433	1.9102	-.00042	.19843	.47473

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3981.2	7573.5	86478.	10882.
Stddev	2.3	8.4	297.	3.
%RSD	.05724	.11109	.34391	.03152

#1	3979.6	7567.5	86268.	10880.
#2	3982.9	7579.4	86689.	10885.

Sample Name: 480-45385-A-3-A Acquired: 9/11/2013 21:57:47 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0054	99.033	.05336	.04552	.69981	.00560	237.84	.00119	.08609
Stddev	.00050	.095	.00049	.00015	.00051	.00010	.19	.00016	.00024
%RSD	92.120	.09578	.91036	.33466	.07335	1.7202	.08020	13.277	.27832

#1	-0.00089	98.966	.05302	.04541	.70018	.00566	237.98	.00108	.08592
#2	-0.00019	99.100	.05371	.04563	.69945	.00553	237.71	.00131	.08626

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.13417	.20290	177.22	12.166	13.911	.17075	47.810	5.3012	5.4940
Stddev	.00027	.00052	.73	.026	.057	.00110	.144	.0126	.0123
%RSD	.20120	.25424	.41137	.21506	.40694	.64528	.30195	.23715	.22378

#1	.13436	.20254	176.71	12.147	13.951	.16997	47.912	5.3101	5.5027
#2	.13398	.20327	177.74	12.184	13.871	.17153	47.708	5.2923	5.4853

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00925	.87630	.19285	.28275	1.057	.00192	.00008	19.805	.03371
Stddev	.00023	.00458	.00042	.00269	.006	.00026	.00420	.060	.00007
%RSD	2.4359	.52235	.21633	.94982	.5726	13.702	5510.7	.30352	.21631

#1	.00909	.87953	.19255	.28465	1.061	.00211	-.00289	19.847	.03376
#2	.00941	.87306	.19314	.28085	1.053	.00174	.00304	19.762	.03365

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.48178	1.8541	-.00576	.19285	.41121
Stddev	.00025	.0010	.00237	.00000	.00062
%RSD	.05234	.05153	41.104	.00150	.15173

#1	.48160	1.8534	-.00409	.19285	.41165
#2	.48195	1.8548	-.00744	.19285	.41077

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4073.3	7652.5	86936.	10826.
Stddev	7.8	21.4	358.	18.
%RSD	.19037	.28013	.41188	.16188
#1	4067.8	7637.3	86682.	10839.
#2	4078.8	7667.7	87189.	10814.

Sample Name: 480-45385-A-4-A Acquired: 9/11/2013 22:00:52 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0020	100.39	.08393	.05613	.72603	.00577	353.54	.00168	.09443
Stddev	.00011	.06	.00163	.00045	.00079	.00008	1.80	.00013	.00018
%RSD	55.473	.06175	1.9391	.80465	.10913	1.3935	.50867	7.9735	.18771

#1	-0.0027	100.35	.08278	.05581	.72659	.00583	354.81	.00178	.09431
#2	-0.0012	100.44	.08508	.05645	.72547	.00572	352.26	.00159	.09456

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.13361	.19506	172.19	13.848	16.516	.18041	59.032	5.8093	6.0780
Stddev	.00010	.00001	.09	.014	.043	.00059	.123	.0181	.0471
%RSD	.07470	.00533	.05030	.10031	.25750	.32665	.20771	.31138	.77448

#1	.13368	.19505	172.13	13.857	16.546	.18000	58.945	5.7965	6.0447
#2	.13354	.19507	172.25	13.838	16.486	.18083	59.118	5.8220	6.1113

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00543	1.0835	.21152	6.7228	.5858	.13984	.00122	23.485	.05222
Stddev	.00002	.0102	.00120	.0067	.0047	.00191	.00338	.137	.00040
%RSD	.42565	.94530	.56768	.10011	.8059	1.3625	275.93	.58300	.77030

#1	.00541	1.0763	.21237	6.7276	.5891	.13849	.00361	23.582	.05251
#2	.00545	1.0908	.21068	6.7181	.5824	.14119	-.00116	23.388	.05194

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.70885	1.7594	-.00403	.18726	.59965
Stddev	.00094	.0004	.00209	.00116	.00198
%RSD	.13248	.02458	51.796	.62078	.33040

#1	.70819	1.7591	-.00255	.18808	.59825
#2	.70951	1.7597	-.00550	.18644	.60105

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3957.6	7636.2	86858.	10944.
Stddev	6.8	1.3	9.	48.
%RSD	.17227	.01761	.00995	.43638

#1	3952.8	7637.1	86864.	10910.
#2	3962.4	7635.2	86852.	10978.

Sample Name: 480-45385-A-5-D Acquired: 9/11/2013 22:03:56 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0064	137.22	.05320	.05147	.86641	.00796	55.725	.00137	.10225
Stddev	.00081	.35	.00124	.00044	.00072	.00005	.087	.00009	.00022
%RSD	127.75	.25294	2.3221	.85027	.08266	.60891	.15547	6.5450	.21306

#1	-0.0121	136.97	.05408	.05178	.86591	.00800	55.664	.00143	.10210
#2	-0.0006	137.46	.05233	.05116	.86692	.00793	55.786	.00130	.10241

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.16899	.24689	221.84	12.795	13.586	.20023	42.059	5.0031	5.0764
Stddev	.00007	.00005	.11	.021	.106	.00174	.087	.0214	.0255
%RSD	.04007	.01830	.05028	.16508	.77776	.86851	.20769	.42863	.50159

#1	.16894	.24686	221.92	12.810	13.511	.20146	42.121	5.0183	5.0944
#2	.16904	.24692	221.76	12.780	13.661	.19900	41.997	4.9879	5.0584

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00205	.68265	.22242	2.2602	8.532	-.00553	-.00021	19.512	.03608
Stddev	.00032	.00835	.00041	.0004	.009	.00182	.00030	.078	.00123
%RSD	15.758	1.2234	.18271	.01839	.1113	32.954	142.92	.40186	3.3962

#1	.00182	.67674	.22213	2.2599	8.525	-.00424	-.00042	19.567	.03695
#2	.00228	.68855	.22271	2.2605	8.538	-.00682	.00000	19.456	.03522

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.24543	1.8970	-.00666	.24002	.43328
Stddev	.00080	.0100	.00206	.00048	.00278
%RSD	.32434	.52438	30.909	.20132	.64132

#1	.24486	1.9040	-.00812	.24037	.43525
#2	.24599	1.8899	-.00521	.23968	.43132

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4249.8	8050.8	91819.	11211.
Stddev	7.2	16.4	523.	6.
%RSD	.17039	.20334	.57001	.05617

#1	4244.7	8039.2	91449.	11216.
#2	4254.9	8062.4	92189.	11207.

Sample Name: 480-45385-B-6-B Acquired: 9/11/2013 22:06:54 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0075	110.83	.04484	.03938	.53221	.00732	60.970	.00112	.06495
Stddev	.00077	.16	.00096	.00014	.00143	.00006	.110	.00007	.00013
%RSD	103.56	.14881	2.1491	.34762	.26934	.85205	.17975	6.2979	.19924

#1	-0.0129	110.72	.04552	.03928	.53119	.00728	60.893	.00107	.06504
#2	-0.0020	110.95	.04416	.03947	.53322	.00736	61.048	.00117	.06486

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.16785	.44584	181.06	10.006	10.617	.20524	38.765	1.3668	1.3555
Stddev	.00045	.00038	.05	.030	.087	.00052	.096	.0014	.0002
%RSD	.26746	.08592	.02935	.29980	.82008	.25308	.24634	.10345	.01353

#1	.16753	.44611	181.02	10.028	10.555	.20487	38.833	1.3678	1.3556
#2	.16817	.44557	181.10	9.9851	10.678	.20561	38.698	1.3658	1.3554

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00090	.68257	.16711	.03225	F 39.93	-.00533	.00028	19.082	.03270
Stddev	.00010	.00214	.00074	.00003	.08	.00105	.00196	.006	.00033
%RSD	10.607	.31298	.44135	.09713	.2097	19.736	708.88	.03052	1.0242

#1	.00097	.68106	.16659	.03227	39.99	-.00607	-.00111	19.078	.03246
#2	.00083	.68408	.16763	.03223	39.87	-.00459	.00166	19.086	.03293

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.15945	1.7211	-.00647	.27276	.37804
Stddev	.00008	.0058	.00312	.00027	.00022
%RSD	.05157	.33604	48.227	.09744	.05907

#1	.15951	1.7252	-.00426	.27294	.37788
#2	.15940	1.7170	-.00867	.27257	.37820

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4304.7	7666.4	87084.	10639.
Stddev	6.5	8.6	6.	7.
%RSD	.15088	.11164	.00692	.06796

#1	4300.1	7660.4	87080.	10634.
#2	4309.2	7672.5	87088.	10644.

Sample Name: CCV Acquired: 9/11/2013 22:09:50 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49522	25.149	.49379	.47906	.49723	.50226	24.988	.48216	.48692	.49666	.48935	24.367
Stddev	.00085	.021	.00083	.00027	.00003	.00096	.083	.00016	.00003	.00080	.00079	.037
%RSD	.17190	.08263	.16770	.05610	.00535	.19188	.33171	.03378	.00556	.16196	.16165	.15033

#1	.49582	25.164	.49438	.47925	.49721	.50294	25.047	.48228	.48694	.49723	.48991	24.393
#2	.49462	25.134	.49320	.47887	.49725	.50158	24.929	.48205	.48690	.49609	.48879	24.341

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.643	25.284	.48625	23.840	.50029	.48758	.48260	24.018	.49214	.49210	24.76	.50225
Stddev	.022	.113	.00013	.025	.00098	.00150	.00002	.014	.00019	.00006	.03	.00020
%RSD	.08744	.44838	.02632	.10415	.19643	.30774	.00363	.05841	.03870	.01157	.1262	.03992

#1	24.658	25.364	.48634	23.858	.49959	.48652	.48262	24.028	.49228	.49214	24.74	.50239
#2	24.627	25.203	.48616	23.822	.50098	.48864	.48259	24.008	.49201	.49206	24.78	.50210

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48050	24.967	.48533	.48954	.48235	.49265	.48273	.49175
Stddev	.00269	.096	.00008	.00039	.00067	.00358	.00095	.00085
%RSD	.56041	.38399	.01704	.07891	.13875	.72728	.19782	.17264

#1	.48241	25.035	.48538	.48981	.48282	.49012	.48340	.49114
#2	.47860	24.899	.48527	.48926	.48188	.49519	.48205	.49235

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4589.5	7678.7	87252.	10494.
Stddev	13.6	14.5	56.	28.
%RSD	.29617	.18866	.06362	.26743
#1	4599.2	7688.9	87212.	10474.
#2	4579.9	7668.4	87291.	10514.

Sample Name: CCB Acquired: 9/11/2013 22:12:37 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00072	.02222	-.00023	.00094	.00011	-.00001	.01522	.00003	.00008	.00020	-.00057	.02644
Stddev	.00033	.00836	.00041	.00004	.00002	.00006	.00307	.00008	.00006	.00009	.00001	.00003
%RSD	45.779	37.627	182.21	4.1141	19.114	649.94	20.197	280.93	75.548	45.780	1.3099	.10277

#1	.00049	.01631	-.00052	.00091	.00010	.00003	.01739	.00009	.00012	.00026	-.00057	.02642
#2	.00096	.02814	.00007	.00096	.00013	-.00005	.01305	-.00003	.00004	.00013	-.00058	.02646

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.12204	.00425	-.00069	.00663	.00041	.00028	.00037	-.02228	-.00029	-.00023	F .0062	-.00081
Stddev	.04877	.00049	.00028	.00704	.00008	.00056	.00006	.00097	.00006	.00069	.0001	.00011
%RSD	39.962	11.417	40.723	106.10	19.335	198.34	16.925	4.3682	22.579	296.29	1.658	13.462

#1	.08755	.00459	-.00088	.00166	.00047	.00068	.00041	-.02297	-.00033	.00025	.0061	-.00089
#2	.15652	.00391	-.00049	.01161	.00035	-.00011	.00032	-.02159	-.00024	-.00072	.0063	-.00074

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00091	.03425	-.00006	.00018	.00062	.00050	.00020	-.00054
Stddev	.00271	.01114	.00002	.00003	.00001	.00182	.00011	.00019
%RSD	297.34	32.536	37.806	18.084	2.2370	362.92	52.337	35.065

#1	-.00283	.02637	-.00004	.00016	.00061	-.00078	.00028	-.00067
#2	.00100	.04213	-.00007	.00020	.00063	.00179	.00013	-.00040

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4943.6	7747.7	89481.	10616.
Stddev	.9	10.4	5.	50.
%RSD	.01899	.13442	.00520	.46760
#1	4942.9	7740.3	89485.	10581.
#2	4944.2	7755.1	89478.	10651.

Sample Name: 480-45385-B-7-B Acquired: 9/11/2013 22:15:30 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00057	142.77	.04415	.05363	.88164	.00789	80.333	.00214	.09325
Stddev	.00042	.21	.00018	.00028	.00126	.00009	.080	.00009	.00002
%RSD	73.290	.14973	.39756	.51597	.14312	1.1273	.09948	4.0483	.02304

#1	.00027	142.92	.04403	.05343	.88253	.00795	80.276	.00208	.09323
#2	.00086	142.62	.04428	.05382	.88075	.00783	80.389	.00220	.09326

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.17621	.32948	209.42	13.529	14.924	.21972	45.597	4.2716	4.3849
Stddev	.00010	.00149	.00	.040	.048	.00025	.033	.0238	.0036
%RSD	.05761	.45283	.00194	.29775	.32113	.11391	.07305	.55666	.08197

#1	.17614	.32843	209.42	13.557	14.958	.21990	45.620	4.2884	4.3874
#2	.17628	.33054	209.43	13.500	14.890	.21955	45.573	4.2548	4.3823

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00224	.74426	.21914	7.5428	F 12.61	-.00232	.00376	19.962	.03421
Stddev	.00037	.00222	.00164	.0005	.00	.00051	.00432	.031	.00146
%RSD	16.739	.29825	.74957	.00644	.0057	22.134	114.92	.15496	4.2636

#1	.00198	.74583	.22030	7.5424	12.61	-.00196	.00070	19.984	.03524
#2	.00251	.74270	.21798	7.5431	12.61	-.00268	.00682	19.940	.03317

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.30445	1.9828	-.00199	.23675	.52976
Stddev	.00028	.0059	.00092	.00027	.00040
%RSD	.09184	.29909	46.432	.11245	.07473

#1	.30464	1.9786	-.00264	.23656	.53004
#2	.30425	1.9870	-.00133	.23694	.52948

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4192.0	7799.3	88926.	10990.
Stddev	1.4	11.0	247.	46.
%RSD	.03441	.14058	.27830	.41727

#1	4193.1	7791.5	88751.	10957.
#2	4191.0	7807.0	89101.	11022.

Sample Name: MB 480-138127/1-A Acquired: 9/11/2013 22:18:29 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00013	.04815	-.00021	.00434	.00019	-.00003	.04564	-.00000	.00009
Stddev	.00045	.01042	.00036	.00002	.00002	.00004	.00194	.00013	.00005
%RSD	356.31	21.633	169.89	.42113	9.7190	156.63	4.2411	2704.0	51.317

#1	.00044	.04078	-.00046	.00435	.00018	-.00006	.04427	.00009	.00012
#2	-.00019	.05551	.00004	.00433	.00020	.00000	.04701	-.00010	.00006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	-.00054	.03958	.09657	.00325	-.00052	.00839	F .00071	F .00037
Stddev	.00012	.00018	.00185	.03385	.00011	.00027	.00207	.00007	.00037
%RSD	233.20	33.806	4.6638	35.052	3.2658	52.875	24.688	10.244	99.187

#1	.00014	-.00067	.04089	.12051	.00318	-.00032	.00693	.00076	.00011
#2	-.00003	-.00041	.03828	.07264	.00333	-.00071	.00986	.00066	.00063

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail
High Limit								.00035	.00035
Low Limit								-.00300	-.00300

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00011	-.02704	-.00049	-.00024	F .0086	-.00091	-.00150	.03660	.00004
Stddev	.00014	.00242	.00008	.00143	.0003	.00124	.00038	.00315	.00014
%RSD	133.49	8.9459	16.763	590.71	3.256	136.78	25.136	8.6080	346.58

#1	.00021	-.02875	-.00055	.00077	.0088	-.00179	-.00123	.03883	-.00006
#2	.00001	-.02533	-.00043	-.00126	.0084	-.00003	-.00177	.03437	.00014

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass
High Limit					.0022				
Low Limit					-.0040				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00038	.00083	-.00146	.00010	.00071
Stddev	.00000	.00024	.00165	.00015	.00017
%RSD	.95295	28.792	112.80	148.16	24.615

#1	.00037	.00066	-.00263	.00020	.00059
#2	.00038	.00100	-.00030	-.00000	.00083

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4959.6	7774.5	90627.	10711.
Stddev	17.3	30.2	59.	14.
%RSD	.34854	.38786	.06551	.13223

#1	4971.8	7795.8	90669.	10701.
#2	4947.4	7753.2	90585.	10721.

Sample Name: LCS 480-138127/2-A Acquired: 9/11/2013 22:21:20 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05192	10.594	.20635	.20946	.21045	.21070	10.248	.20398	.20302
Stddev	.00050	.028	.00017	.00014	.00046	.00024	.000	.00021	.00036
%RSD	.95682	.26011	.08017	.06574	.21699	.11305	.00150	.10184	.17548

#1	.05227	10.614	.20647	.20955	.21077	.21053	10.248	.20383	.20327
#2	.05157	10.575	.20623	.20936	.21012	.21087	10.248	.20413	.20276

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20862	.20536	10.249	10.152	10.445	.20377	10.271	.20621	.20029
Stddev	.00078	.00065	.005	.002	.091	.00158	.029	.00026	.00029
%RSD	.37366	.31860	.05146	.02312	.87533	.77745	.28566	.12703	.14477

#1	.20807	.20582	10.253	10.153	10.380	.20489	10.250	.20603	.20049
#2	.20917	.20489	10.246	10.150	10.510	.20265	10.291	.20640	.20008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20770	9.9364	.20280	.20178	F -.0021	.20533	.20436	10.346	.19475
Stddev	.00007	.0062	.00097	.00118	.0006	.00103	.00109	.034	.00006
%RSD	.03443	.06271	.48067	.58355	29.96	.50307	.53282	.32397	.03261

#1	.20775	9.9408	.20212	.20095	-.0025	.20460	.20359	10.322	.19471
#2	.20765	9.9320	.20349	.20261	-.0016	.20606	.20513	10.369	.19480

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					11.50				
Low Limit					8.500				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20540	.19421	.20397	.20242	.19983
Stddev	.00001	.00042	.00069	.00063	.00073
%RSD	.00549	.21722	.33731	.31074	.36503

#1	.20540	.19451	.20446	.20286	.19932
#2	.20539	.19391	.20348	.20197	.20035

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4706.0	7639.6	87654.	10566.
Stddev	4.5	2.3	63.	34.
%RSD	.09472	.02999	.07168	.32205

#1	4709.1	7641.3	87699.	10590.
#2	4702.8	7638.0	87610.	10542.

Sample Name: LCSD 480-138127/3-A Acquired: 9/11/2013 22:24:07 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05232	10.446	.20493	.20875	.20881	.20930	10.092	.20333	.20292
Stddev	.00032	.049	.00106	.00011	.00027	.00028	.031	.00005	.00034
%RSD	.60984	.46554	.51537	.05449	.13101	.13186	.30290	.02579	.16844

#1	.05210	10.480	.20419	.20867	.20901	.20950	10.070	.20329	.20316
#2	.05255	10.412	.20568	.20883	.20862	.20910	10.114	.20337	.20268

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20736	.20535	10.191	10.040	10.470	.20191	10.288	.20643	.20046
Stddev	.00080	.00008	.027	.009	.066	.00040	.029	.00006	.00055
%RSD	.38735	.03885	.26019	.08953	.63018	.19890	.28137	.03046	.27241

#1	.20793	.20541	10.210	10.047	10.423	.20219	10.267	.20648	.20007
#2	.20679	.20529	10.173	10.034	10.517	.20162	10.308	.20639	.20084

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20694	9.8698	.20240	.20156	F -.0004	.20467	.20349	10.267	.19364
Stddev	.00069	.0071	.00083	.00046	.0011	.00076	.00303	.012	.00015
%RSD	.33495	.07219	.41231	.22969	306.4	.37008	1.4889	.11803	.07987

#1	.20743	9.8748	.20299	.20188	-.0012	.20413	.20563	10.259	.19375
#2	.20645	9.8647	.20181	.20123	.0004	.20520	.20135	10.276	.19353

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					11.50				
Low Limit					8.500				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20378	.19465	.20427	.20185	.20117
Stddev	.00014	.00064	.00142	.00059	.00126
%RSD	.06654	.32651	.69464	.29078	.62813

#1	.20388	.19510	.20528	.20226	.20207
#2	.20368	.19420	.20327	.20143	.20028

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4702.5	7632.1	87785.	10644.
Stddev	.8	2.0	161.	2.
%RSD	.01615	.02605	.18310	.02222

#1	4701.9	7633.5	87671.	10642.
#2	4703.0	7630.7	87898.	10645.

Sample Name: 480-45414-D-1-A Acquired: 9/11/2013 22:26:54 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00047	.59344	-.00052	.00814	.14269	.00003	55.514	.00017	.00027
Stddev	.00047	.00402	.00127	.00003	.00003	.00005	.017	.00001	.00003
%RSD	99.518	.67701	244.47	.36147	.02352	144.01	.03096	7.9728	9.7691

#1	.00014	.59628	-.00141	.00812	.14266	.00007	55.502	.00018	.00028
#2	.00080	.59060	.00038	.00816	.14271	-.00000	55.526	.00016	.00025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00381	.00198	.52126	2.6498	2.9464	.01072	24.602	.04831	.04690
Stddev	.00011	.00015	.00470	.0003	.0004	.00031	.028	.00027	.00032
%RSD	2.7745	7.6818	.90148	.00976	.01259	2.8863	.11333	.56671	.67859

#1	.00374	.00187	.51794	2.6496	2.9462	.01094	24.622	.04851	.04713
#2	.00388	.00208	.52459	2.6499	2.9467	.01051	24.582	.04812	.04668

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00078	15.909	.00045	-.00251	3.539	-.00156	-.00243	9.6153	-.00075
Stddev	.00003	.002	.00031	.00067	.018	.00057	.00143	.0137	.00019
%RSD	3.8724	.01400	69.217	26.731	.5232	36.345	58.541	.14241	26.091

#1	.00076	15.907	.00023	-.00298	3.552	-.00197	-.00344	9.6056	-.00061
#2	.00080	15.910	.00067	-.00203	3.526	-.00116	-.00143	9.6250	-.00088

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.22049	.02787	-.00188	.00125	.00572
Stddev	.00032	.00020	.00294	.00022	.00000
%RSD	.14560	.71601	156.34	17.402	.06323

#1	.22026	.02801	-.00396	.00110	.00572
#2	.22072	.02773	.00020	.00141	.00572

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4547.3	7446.4	85710.	10518.
Stddev	5.3	1.2	84.	3.
%RSD	.11618	.01669	.09742	.02481

#1	4543.5	7447.3	85769.	10516.
#2	4551.0	7445.5	85651.	10520.

Sample Name: 480-45414-D-2-A Acquired: 9/11/2013 22:29:41 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0008	.47982	.00081	.00849	.95069	.00001	99.850	.00020	.00010
Stddev	.00017	.01600	.00114	.00025	.00222	.00004	.064	.00006	.00002
%RSD	202.16	3.3353	140.87	2.9824	.23355	438.07	.06395	29.100	19.343

#1	-0.00020	.49113	.00000	.00867	.94912	.00004	99.805	.00016	.00011
#2	.00004	.46850	.00162	.00832	.95226	-0.00002	99.895	.00024	.00008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00269	.00512	2.0863	2.6766	3.2967	.02687	42.597	.23193	.23281
Stddev	.00006	.00000	.00031	.0075	.0006	.00086	.027	.00023	.00067
%RSD	2.2575	.04510	.15015	.28044	.01715	3.2120	.06289	.09988	.28979

#1	.00274	.00512	2.0840	2.6819	3.2971	.02626	42.578	.23177	.23233
#2	.00265	.00512	2.0885	2.6713	3.2963	.02748	42.616	.23209	.23329

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00071	27.652	.00087	-0.00248	2.954	-0.00114	-0.00140	8.0658	-0.00024
Stddev	.00025	.052	.00000	.00016	.006	.00170	.00155	.0082	.00012
%RSD	35.523	.18754	.02427	6.5405	.1915	149.25	110.39	.10136	49.477

#1	.00089	27.689	.00087	-0.00237	2.958	-0.00235	-0.00031	8.0601	-0.00032
#2	.00053	27.615	.00087	-0.00259	2.950	.00006	-0.00250	8.0716	-0.00015

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.44325	.02558	-0.00400	.00106	.00852
Stddev	.00099	.00045	.00086	.00003	.00007
%RSD	.22375	1.7787	21.513	3.2047	.79196

#1	.44255	.02590	-0.00339	.00109	.00847
#2	.44395	.02525	-0.00460	.00104	.00857

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4397.9	7316.9	83845.	10480.
Stddev	4.1	5.5	44.	5.
%RSD	.09410	.07463	.05245	.04731

#1	4394.9	7320.7	83876.	10483.
#2	4400.8	7313.0	83814.	10476.

Sample Name: 480-45414-D-3-A Acquired: 9/11/2013 22:32:34 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00000	11.622	.01736	.01926	.01234	.00004	14.450	.00020	.00133
Stddev	.00032	.042	.00074	.00031	.00009	.00000	.083	.00009	.00012
%RSD	8386.0	.36126	4.2688	1.6210	.75070	2.5829	.57306	45.285	8.8812

#1	.00023	11.652	.01684	.01904	.01241	.00004	14.508	.00027	.00142
#2	-.00023	11.593	.01789	.01948	.01228	.00004	14.391	.00014	.00125

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.15935	.00702	1.6582	2.3834	3.4877	.00120	1.3848	.03164	.03152
Stddev	.00102	.00022	.0193	.0515	.0082	.00082	.0024	.00013	.00049
%RSD	.63855	3.0971	1.1611	2.1615	.23420	68.588	.17025	.41954	1.5415

#1	.16007	.00717	1.6719	2.4198	3.4935	.00178	1.3831	.03155	.03118
#2	.15863	.00687	1.6446	2.3470	3.4819	.00062	1.3865	.03173	.03187

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01825	164.68	.00240	-.00232	F 27.63	-.00017	-.00100	5.8719	.00097
Stddev	.00008	1.17	.00043	.00011	.06	.00047	.00129	.0376	.00018
%RSD	.44316	.71303	17.824	4.7990	.2036	277.19	129.33	.63993	18.929

#1	.01831	165.51	.00271	-.00224	27.59	-.00050	-.00191	5.8984	.00110
#2	.01819	163.85	.00210	-.00240	27.67	.00016	-.00009	5.8453	.00084

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05780	.13940	-.00040	.04083	.00913
Stddev	.00025	.00035	.00133	.00015	.00041
%RSD	.43139	.25397	328.02	.36154	4.4554

#1	.05797	.13965	-.00134	.04093	.00942
#2	.05762	.13915	.00053	.04073	.00884

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4385.4	7443.3	84937.	10606.
Stddev	9.9	9.5	202.	41.
%RSD	.22572	.12755	.23826	.38912

#1	4392.4	7450.0	84794.	10577.
#2	4378.4	7436.6	85080.	10635.

Sample Name: 480-45414-D-3-A SD@5 Acquired: 9/11/2013 22:35:25 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00063	2.4593	.00367	.00514	.00297	-0.00002	3.0454	-0.00002	.00027
Stddev	.00013	.0111	.00109	.00003	.00000	.00008	.0117	.00005	.00005
%RSD	20.926	.45241	29.829	.57407	.03690	374.25	.38370	328.21	19.325

#1	.00054	2.4514	.00290	.00516	.00297	-0.00008	3.0371	.00002	.00023
#2	.00073	2.4671	.00444	.00512	.00297	.00003	3.0536	-0.00005	.00030

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03257	.00067	.38927	.56094	.51571	.00021	.28426	.00687	.00677
Stddev	.00021	.00012	.00495	.00812	.00152	.00013	.00544	.00005	.00032
%RSD	.63878	17.490	1.2712	1.4478	.29549	59.498	1.9122	.71174	4.7292

#1	.03242	.00058	.38577	.56668	.51463	.00012	.28042	.00683	.00700
#2	.03272	.00075	.39277	.55520	.51678	.00030	.28811	.00690	.00655

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00373	32.765	.00024	-0.00100	5.434	.00015	-0.00014	1.2478	.00031
Stddev	.00016	.059	.00024	.00032	.008	.00160	.00043	.0059	.00018
%RSD	4.3251	.17928	101.65	32.372	.1500	1057.6	301.02	.47531	57.844

#1	.00385	32.723	.00007	-0.00077	5.428	.00128	.00016	1.2436	.00044
#2	.00362	32.806	.00041	-0.00122	5.439	-0.00098	-0.00045	1.2520	.00018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01243	.02821	-0.00206	.00872	.00122
Stddev	.00012	.00056	.00083	.00013	.00037
%RSD	.98334	1.9785	40.310	1.5028	30.460

#1	.01234	.02861	-0.00265	.00863	.00148
#2	.01251	.02782	-0.00147	.00882	.00096

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4687.3	7544.5	85678.	10370.
Stddev	1.1	3.7	63.	35.
%RSD	.02369	.04919	.07333	.33621
#1	4686.5	7541.8	85634.	10394.
#2	4688.0	7547.1	85723.	10345.

Sample Name: 480-45414-D-3-A PDS Acquired: 9/11/2013 22:38:14 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05384	22.155	.22759	.22727	.21879	.20899	24.259	.19896	.20545
Stddev	.00006	.114	.00066	.00013	.00024	.00071	.120	.00002	.00052
%RSD	.11813	.51323	.28959	.05693	.10744	.33864	.49276	.00816	.25503

#1	.05388	22.075	.22713	.22737	.21863	.20849	24.174	.19895	.20508
#2	.05379	22.236	.22806	.22718	.21896	.20949	24.343	.19897	.20582

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.35410	.20978	11.581	12.730	17.776	.21255	11.194	.22966	.23282
Stddev	.00032	.00030	.038	.043	.013	.00164	.022	.00004	.00064
%RSD	.08961	.14161	.33236	.33565	.07203	.77197	.19258	.01562	.27276

#1	.35387	.20957	11.554	12.700	17.785	.21139	11.179	.22964	.23327
#2	.35432	.20999	11.608	12.761	17.767	.21371	11.209	.22969	.23237

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21363	171.47	.20569	.20031	F 26.82	.20332	.20304	16.434	.19804
Stddev	.00050	.57	.00018	.00151	.01	.00172	.00691	.023	.00154
%RSD	.23239	.33349	.08990	.75134	.0389	.84575	3.4008	.13919	.77688

#1	.21327	171.06	.20556	.19925	26.82	.20454	.20792	16.418	.19695
#2	.21398	171.87	.20582	.20137	26.81	.20210	.19816	16.450	.19913

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.26162	.32655	.20068	.23900	.20643
Stddev	.00105	.00086	.00024	.00012	.00016
%RSD	.40304	.26483	.11907	.05187	.07685

#1	.26087	.32716	.20051	.23909	.20654
#2	.26236	.32594	.20085	.23892	.20632

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4323.1	7429.7	84077.	10540.
Stddev	4.4	10.1	154.	74.
%RSD	.10206	.13589	.18326	.70471

#1	4326.2	7436.8	84186.	10593.
#2	4320.0	7422.6	83968.	10488.

Sample Name: 480-45414-D-3-B MS Acquired: 9/11/2013 22:41:05 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05331	23.385	.22723	.22544	.21686	.20992	25.444	.20498	.20998
Stddev	.00073	.087	.00235	.00062	.00003	.00024	.059	.00026	.00027
%RSD	1.3619	.37292	1.0328	.27667	.01588	.11607	.23003	.12862	.12858

#1	.05382	23.447	.22888	.22588	.21688	.21009	25.485	.20517	.20979
#2	.05280	23.324	.22557	.22500	.21683	.20975	25.402	.20480	.21017

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.37210	.21431	12.280	12.812	17.759	.20728	11.731	.24249	.24618
Stddev	.00076	.00049	.037	.014	.022	.00052	.037	.00019	.00075
%RSD	.20388	.22697	.30235	.10818	.12136	.25247	.31889	.07965	.30488

#1	.37263	.21465	12.306	12.822	17.774	.20691	11.704	.24262	.24671
#2	.37156	.21396	12.254	12.802	17.744	.20765	11.757	.24235	.24565

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.22303	181.55	.21064	.20293	F 28.64	.20801	.21008	18.524	.20038
Stddev	.00008	.05	.00008	.00029	.05	.00036	.00394	.007	.00084
%RSD	.03496	.02821	.03802	.14237	.1765	.17305	1.8765	.03803	.41856

#1	.22308	181.58	.21058	.20314	28.67	.20827	.20730	18.529	.20097
#2	.22297	181.51	.21069	.20273	28.60	.20776	.21287	18.519	.19979

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.26625	.38415	.19990	.24528	.21253
Stddev	.00052	.00022	.00234	.00032	.00038
%RSD	.19433	.05700	1.1693	.12966	.18104

#1	.26662	.38399	.20155	.24550	.21225
#2	.26589	.38430	.19824	.24505	.21280

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4297.7	7388.2	83698.	10526.
Stddev	4.0	9.6	75.	22.
%RSD	.09224	.12979	.09001	.21281

#1	4294.9	7381.4	83645.	10510.
#2	4300.5	7395.0	83751.	10541.

Sample Name: CCV Acquired: 9/11/2013 22:43:59 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49281	24.903	.49581	.48081	.49506	.49948	24.510	.48169	.48569	.49346	.48849	24.122
Stddev	.00056	.034	.00067	.00009	.00185	.00132	.049	.00007	.00002	.00066	.00007	.080
%RSD	.11452	.13662	.13528	.01969	.37385	.26510	.20042	.01373	.00501	.13454	.01482	.33126

#1	.49321	24.879	.49533	.48087	.49637	.49854	24.475	.48173	.48568	.49393	.48854	24.066
#2	.49241	24.927	.49628	.48074	.49375	.50041	24.545	.48164	.48571	.49299	.48844	24.179

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.508	25.190	.48519	23.674	.49848	.48939	.48233	23.950	.49201	.48948	24.96	.50537
Stddev	.010	.154	.00051	.064	.00028	.00178	.00205	.010	.00015	.00142	.03	.00263
%RSD	.04056	.60976	.10527	.26919	.05603	.36335	.42582	.04060	.03021	.29007	.1311	.52082

#1	24.501	25.081	.48483	23.719	.49867	.49065	.48378	23.943	.49211	.49048	24.98	.50351
#2	24.516	25.299	.48555	23.629	.49828	.48814	.48088	23.957	.49190	.48847	24.93	.50723

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.47948	24.584	.48284	.48934	.47701	.49668	.47814	.47985
Stddev	.00353	.046	.00045	.00008	.00083	.00055	.00077	.00066
%RSD	.73600	.18612	.09279	.01627	.17350	.11063	.16149	.13653

#1	.47698	24.551	.48253	.48940	.47759	.49706	.47760	.47938
#2	.48197	24.616	.48316	.48928	.47642	.49629	.47869	.48031

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4518.1	7555.4	86169.	10484.
Stddev	.4	2.3	149.	29.
%RSD	.00855	.03048	.17345	.27347
#1	4517.8	7557.0	86064.	10504.
#2	4518.4	7553.8	86275.	10464.

Sample Name: CCB Acquired: 9/11/2013 22:46:46 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00024	.03405	-.00132	.00054	.00007	.00005	.00315	.00007	.00014	.00027	-.00087	.00574
Stddev	.00002	.00844	.00247	.00041	.00002	.00007	.00284	.00004	.00005	.00038	.00009	.00119
%RSD	7.6558	24.788	186.14	75.623	26.090	145.70	90.256	47.134	33.764	142.06	10.030	20.781

#1	.00026	.02808	-.00307	.00025	.00005	-.00000	.00516	.00010	.00017	-.00000	-.00080	.00490
#2	.00023	.04001	.00042	.00083	.00008	.00010	.00114	.00005	.00011	.00054	-.00093	.00659

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08627	.00390	.00113	.00151	.00003	-.00003	.00032	-.00335	-.00023	-.00044	F .0044	-.00004
Stddev	.00862	.00056	.00004	.00399	.00001	.00020	.00013	.00070	.00012	.00021	.0003	.00081
%RSD	9.9868	14.481	3.8132	264.04	16.873	619.68	40.062	20.822	52.367	47.986	6.546	2250.0

#1	.08018	.00430	.00110	.00434	.00003	.00011	.00041	-.00285	-.00031	-.00059	.0042	-.00061
#2	.09236	.00350	.00116	-.00131	.00004	-.00017	.00023	-.00384	-.00014	-.00029	.0046	.00054

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00230	.02811	-.00002	.00017	.00053	-.00197	.00005	-.00068
Stddev	.00341	.00805	.00028	.00008	.00029	.00186	.00005	.00037
%RSD	147.95	28.640	1165.8	45.944	53.986	93.938	90.826	54.453

#1	.00011	.02242	-.00022	.00011	.00074	-.00329	.00009	-.00042
#2	-.00471	.03380	.00017	.00022	.00033	-.00066	.00002	-.00094

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4901.7	7681.8	88669.	10495.
Stddev	6.9	2.2	41.	6.
%RSD	.14110	.02832	.04570	.05574
#1	4896.8	7680.3	88641.	10491.
#2	4906.6	7683.4	88698.	10499.

Sample Name: 480-45414-D-3-C MSD Acquired: 9/11/2013 22:49:39 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05309	23.610	.23048	.22834	.21964	.21352	25.737	.20729	.21312
Stddev	.00003	.058	.00182	.00005	.00010	.00049	.107	.00045	.00052
%RSD	.04848	.24509	.79091	.02294	.04430	.22719	.41470	.21795	.24472

#1	.05307	23.651	.23176	.22831	.21971	.21387	25.812	.20761	.21349
#2	.05311	23.569	.22919	.22838	.21957	.21318	25.661	.20697	.21275

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.37608	.21762	12.487	12.981	18.104	.21019	11.874	.24642	.25011
Stddev	.00041	.00058	.008	.014	.220	.00188	.028	.00062	.00019
%RSD	.10771	.26625	.06313	.10697	1.2176	.89580	.23751	.25012	.07584

#1	.37637	.21803	12.493	12.991	18.260	.21152	11.894	.24686	.24997
#2	.37580	.21721	12.482	12.971	17.948	.20886	11.855	.24599	.25024

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.22447	184.58	.21405	.20441	F 29.09	.21323	.21077	18.496	.20253
Stddev	.00077	.57	.00048	.00017	.02	.00083	.00264	.082	.00088
%RSD	.34255	.30641	.22415	.08120	.0548	.39060	1.2548	.44528	.43572

#1	.22501	184.98	.21439	.20452	29.10	.21264	.20890	18.554	.20315
#2	.22393	184.18	.21371	.20429	29.08	.21382	.21264	18.438	.20190

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.26982	.38856	.20664	.24774	.21409
Stddev	.00008	.00139	.00167	.00025	.00025
%RSD	.03082	.35882	.80582	.10224	.11514

#1	.26988	.38954	.20782	.24756	.21392
#2	.26976	.38757	.20546	.24792	.21427

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4278.3	7385.5	8385.1	10523.
Stddev	3.0	.6	171.	72.
%RSD	.07099	.00810	.20357	.68232

#1	4280.4	7385.1	83730.	10472.
#2	4276.1	7386.0	83972.	10574.

Sample Name: 480-45414-D-4-A Acquired: 9/11/2013 22:52:30 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00082	1.8200	.00489	.01352	.05274	.00005	22.770	.00018	.00138
Stddev	.00014	.0239	.00173	.00019	.00008	.00006	.078	.00006	.00012
%RSD	16.725	1.3126	35.395	1.4337	.15868	108.30	.34190	34.853	8.9170

#1	.00073	1.8031	.00367	.01366	.05279	.00009	22.715	.00013	.00147
#2	.00092	1.8369	.00612	.01339	.05268	.00001	22.826	.00022	.00130

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01585	.00337	1.9488	4.2801	5.3280	.00427	7.4881	.14224	.13980
Stddev	.00019	.00007	.00099	.0054	.0222	.00010	.0152	.00054	.00007
%RSD	1.2045	2.0505	.51018	.12574	.41577	2.4014	.20285	.37887	.04731

#1	.01599	.00333	1.9418	4.2763	5.3123	.00420	7.4774	.14186	.13985
#2	.01572	.00342	1.9559	4.2839	5.3437	.00435	7.4989	.14262	.13976

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01763	72.511	.00314	-.00378	F 15.96	.00032	-.00160	8.3684	.00045
Stddev	.00025	.398	.00033	.00129	.00	.00023	.00121	.0211	.00013
%RSD	1.4174	.54824	10.570	34.010	.0004	71.728	76.080	.25235	28.770

#1	.01745	72.230	.00291	-.00469	15.96	.00016	-.00246	8.3535	.00036
#2	.01780	72.792	.00338	-.00287	15.96	.00049	-.00074	8.3834	.00054

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.12467	.14110	-.00175	.00830	.00643
Stddev	.00009	.00056	.00053	.00015	.00005
%RSD	.07246	.39678	30.491	1.7833	.71803

#1	.12460	.14070	-.00213	.00819	.00646
#2	.12473	.14149	-.00137	.00840	.00639

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4523.1	7459.4	85012.	10474.
Stddev	7.2	6.8	296.	104.
%RSD	.15846	.09106	.34799	.99479

#1	4518.1	7454.6	85222.	10548.
#2	4528.2	7464.2	84803.	10401.

Sample Name: 480-45414-D-5-A Acquired: 9/11/2013 22:55:16 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00105	130.52	.20939	.04248	.00810	.00010	1.9084	-0.00005	.00124
Stddev	.00017	.03	.00180	.00006	.00002	.00003	.0150	.00003	.00009
%RSD	16.230	.02566	.86059	.15070	.21476	24.384	.78549	59.948	7.2655

#1	.00093	130.50	.21066	.04244	.00809	.00012	1.9190	-0.00007	.00131
#2	.00117	130.54	.20812	.04253	.00812	.00009	1.8978	-0.00003	.00118

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11987	.04264	1.8530	6.9506	16.134	.00162	.61113	.04793	.05326
Stddev	.00032	.00042	.0026	.0007	.009	.00032	.00811	.00057	.00035
%RSD	.26825	.98932	.13765	.01048	.05821	19.750	1.3266	1.1820	.65119

#1	.12010	.04293	1.8512	6.9501	16.128	.00139	.61687	.04833	.05302
#2	.11964	.04234	1.8548	6.9511	16.141	.00185	.60540	.04753	.05351

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.03208	2261.8	.00130	F -.01672	F 1026.	.00011	.00257	44.003	.00137
Stddev	.00010	4.2	.00014	.00058	2.	.00136	.00016	.037	.00051
%RSD	.31514	.18521	10.454	3.4640	.2431	1194.1	6.0587	.08420	37.356

#1	.03201	2258.8	.00140	-0.01631	1028.	-0.00085	.00246	44.029	.00173
#2	.03216	2264.7	.00121	-0.01713	1024.	.00108	.00268	43.976	.00101

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				120.00	10.00				
Low Limit				-0.00500	-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01123	.12290	-.00134	.35622	.02784
Stddev	.00001	.00099	.00137	.00118	.00031
%RSD	.11547	.80422	102.86	.33027	1.1033

#1	.01124	.12360	-.00231	.35705	.02806
#2	.01122	.12220	-.00036	.35539	.02762

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3550.9	7024.1	76207.	10403.
Stddev	.1	13.1	433.	33.
%RSD	.00315	.18622	.56853	.31788

#1	3551.0	7033.3	75901.	10380.
#2	3550.8	7014.8	76513.	10426.

Sample Name: 480-45414-D-6-A Acquired: 9/11/2013 22:58:14 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00015	118.12	.17739	.10650	.00973	.00021	5.0675	-0.00001	.00004
Stddev	.00018	.56	.00086	.00035	.00006	.00005	.0213	.00003	.00006
%RSD	119.77	.47011	.48558	.33108	.64791	21.734	.42045	323.62	156.77

#1	-0.00028	118.51	.17800	.10625	.00977	.00024	5.0826	.00001	-0.00000
#2	-0.00002	117.72	.17679	.10675	.00968	.00018	5.0525	-0.00003	.00008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.12388	.03998	.63497	18.138	46.299	.00934	.19916	.01332	.01726
Stddev	.00049	.00016	.00017	.065	.759	.00065	.00484	.00008	.00061
%RSD	.39208	.41135	.02630	.35612	1.6387	7.0090	2.4293	.60372	3.5198

#1	.12354	.03986	.63485	18.092	46.836	.00888	.20258	.01337	.01769
#2	.12423	.04009	.63509	18.184	45.763	.00980	.19574	.01326	.01683

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.07442	F 11847.	-0.00051	F -.01257	F 2801.	.00145	.00633	77.233	.01605
Stddev	.00051	70.	.00030	.00005	5.	.00082	.00329	.474	.00000
%RSD	.68695	.58938	59.302	.40170	.1896	56.243	51.997	.61375	.02484

#1	.07479	11896.	-0.00073	-0.01261	2805.	.00087	.00866	77.568	.01605
#2	.07406	11797.	-0.00030	-0.01254	2797.	.00203	.00400	76.897	.01605

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		5000.0		120.00	10.00				
Low Limit		-1.0000		-0.0500	-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.07491	.05934	-0.00517	.22010	.30243
Stddev	.00018	.00127	.00388	.00078	.00302
%RSD	.23705	2.1360	75.070	.35560	.99704

#1	.07503	.06023	-0.00792	.22066	.30030
#2	.07478	.05844	-0.00243	.21955	.30457

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2751.1	6216.7	65126.	10058.
Stddev	.7	.2	28.	62.
%RSD	.02588	.00334	.04345	.62043
#1	2750.6	6216.8	65146.	10013.
#2	2751.6	6216.5	65106.	10102.

Sample Name: 480-45414-D-7-A Acquired: 9/11/2013 23:01:20 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00089	.79223	.00584	.00980	.10665	-0.00000	304.39	.00022	.00068
Stddev	.00036	.01607	.00025	.00031	.00007	.00008	.54	.00013	.00006
%RSD	40.110	2.0285	4.3076	3.2129	.06920	2712.5	.17635	58.890	9.3226

#1	.00114	.78087	.00601	.01002	.10660	-0.00006	304.01	.00013	.00064
#2	.00064	.80359	.00566	.00958	.10670	.00005	304.77	.00031	.00073

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.29611	.00358	.35007	10.494	18.551	.00357	34.798	.00950	.01032
Stddev	.00044	.00016	.00290	.007	.039	.00123	.169	.00005	.00027
%RSD	.14812	4.5300	.82767	.07101	.21108	34.549	.48597	.50446	2.5801

#1	.29580	.00346	.35212	10.499	18.578	.00444	34.679	.00946	.01013
#2	.29642	.00369	.34802	10.488	18.523	.00270	34.918	.00953	.01051

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00393	586.92	.00190	-0.00165	F 847.1	-0.00208	.00337	3.4592	-0.00033
Stddev	.00016	.69	.00051	.00080	1.2	.00010	.00049	.0193	.00038
%RSD	4.0751	.11692	26.770	48.606	.1399	4.9236	14.619	.55941	115.93

#1	.00381	587.40	.00154	-.00222	846.3	-.00201	.00302	3.4455	-.00006
#2	.00404	586.43	.00226	-.00109	848.0	-.00216	.00372	3.4729	-.00059

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0383	.02466	-.00273	.00708	.01869
Stddev	.0023	.00014	.00263	.00014	.00105
%RSD	.22260	.56950	96.512	2.0336	5.6266

#1	1.0400	.02456	-.00087	.00718	.01795
#2	1.0367	.02476	-.00459	.00698	.01943

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3782.9	6820.3	77617.	10316.
Stddev	4.0	8.4	218.	39.
%RSD	.10457	.12337	.28103	.38014

#1	3785.7	6814.3	77771.	10289.
#2	3780.1	6826.2	77463.	10344.

Sample Name: 480-45414-D-8-A Acquired: 9/11/2013 23:04:25 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00041	2.2054	.00254	.01395	.10428	.00009	63.226	.00022	.00384
Stddev	.00021	.0083	.00138	.00033	.00010	.00004	.160	.00004	.00005
%RSD	52.244	.37585	54.155	2.3937	.09163	46.809	.25296	16.668	1.4210

#1	.00026	2.1996	.00157	.01418	.10421	.00006	63.339	.00025	.00380
#2	.00056	2.2113	.00352	.01371	.10435	.00012	63.113	.00020	.00388

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02482	.00493	3.2428	6.5815	8.5671	.00426	15.091	.22295	.22097
Stddev	.00034	.00021	.0047	.0184	.0031	.00089	.063	.00165	.00068
%RSD	1.3766	4.2817	.14388	.27961	.03562	20.799	.41638	.74070	.30854

#1	.02506	.00478	3.2395	6.5945	8.5692	.00489	15.135	.22411	.22049
#2	.02458	.00508	3.2461	6.5685	8.5649	.00364	15.046	.22178	.22145

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01946	83.959	.00924	-.00358	F 80.92	-.00135	.00005	9.8265	.00136
Stddev	.00032	.011	.00014	.00064	.04	.00165	.00451	.0075	.00049
%RSD	1.6213	.01324	1.4805	17.985	.0550	122.37	9028.1	.07580	35.940

#1	.01924	83.951	.00933	-.00313	80.89	-.00251	.00324	9.8318	.00102
#2	.01968	83.967	.00914	-.00404	80.95	-.00018	-.00314	9.8212	.00171

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.27058	.27460	-.00198	.01208	.01493
Stddev	.00028	.00186	.00069	.00025	.00015
%RSD	.10418	.67698	35.065	2.1070	1.0203

#1	.27078	.27591	-.00149	.01226	.01482
#2	.27038	.27328	-.00247	.01190	.01504

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4389.8	7319.1	84288.	10470.
Stddev	3.0	10.6	247.	56.
%RSD	.06901	.14437	.29298	.53517

#1	4392.0	7326.5	84113.	10430.
#2	4387.7	7311.6	84462.	10509.

Sample Name: 480-45394-K-1-A Acquired: 9/11/2013 23:07:17 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00065	.11768	.00280	.05398	.09242	.00000	67.001	.00018	.00293
Stddev	.00032	.00047	.00158	.00021	.00020	.00004	.200	.00008	.00009
%RSD	49.895	.40095	56.450	.38642	.21319	2439.2	.29920	43.121	3.0468

#1	.00042	.11801	.00392	.05413	.09256	.00003	67.143	.00024	.00299
#2	.00087	.11735	.00168	.05384	.09228	-.00003	66.859	.00013	.00286

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00077	.00101	17.548	5.3817	7.4468	.00107	3.6271	.15028	.15006
Stddev	.00005	.00010	.022	.0396	.0389	.00202	.0012	.00040	.00051
%RSD	6.5644	9.9797	.12464	.73502	.52295	188.95	.03389	.26393	.34106

#1	.00081	.00108	17.564	5.3538	7.4743	.00250	3.6280	.15000	.15042
#2	.00074	.00094	17.533	5.4097	7.4193	-.00036	3.6262	.15056	.14969

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00030	111.99	.00191	-.00249	5.941	-.00043	-.00031	7.3718	.00022
Stddev	.00012	.19	.00012	.00001	.010	.00177	.00363	.0536	.00034
%RSD	38.625	.16594	6.2579	.31834	.1693	411.39	1190.5	.72667	158.69

#1	.00038	112.13	.00200	-.00249	5.948	-.00168	.00226	7.4096	.00046
#2	.00022	111.86	.00183	-.00248	5.934	.00082	-.00288	7.3339	-.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.32005	.00210	-.00230	.00092	.01868
Stddev	.00057	.00014	.00091	.00002	.00023
%RSD	.17815	6.8996	39.438	2.5724	1.2219

#1	.32046	.00200	-.00166	.00091	.01884
#2	.31965	.00220	-.00294	.00094	.01852

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4349.3	7264.6	84054.	10519.
Stddev	.1	1.3	31.	8.
%RSD	.00248	.01828	.03695	.07233

#1	4349.3	7263.7	84032.	10514.
#2	4349.4	7265.5	84075.	10524.

Sample Name: 480-45394-K-2-A Acquired: 9/11/2013 23:10:09 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00056	.07273	-.00158	.04333	.03283	.00001	68.373	.00046	.00403
Stddev	.00025	.01263	.00187	.00008	.00004	.00006	.996	.00001	.00008
%RSD	44.653	17.365	118.12	.18498	.11380	607.22	1.4563	1.9700	1.9059

#1	.00073	.08166	-.00290	.04328	.03285	.00005	69.077	.00046	.00398
#2	.00038	.06380	-.00026	.04339	.03280	-.00003	67.669	.00047	.00408

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00098	.01854	.19994	5.7615	6.8836	.01523	3.0249	.04488	.04384
Stddev	.00066	.00040	.00032	.1024	.0436	.00001	.0037	.00001	.00116
%RSD	67.446	2.1389	.15990	1.7764	.63362	.05969	.12323	.02843	2.6449

#1	.00051	.01883	.19972	5.8339	6.9145	.01522	3.0222	.04487	.04466
#2	.00145	.01826	.20017	5.6891	6.8528	.01523	3.0275	.04489	.04302

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00301	39.759	.00684	F -.00512	F 10.33	-.00098	.00186	11.697	-.00058
Stddev	.00001	.381	.00016	.00082	.03	.00092	.00295	.159	.00036
%RSD	.17438	.95810	2.3204	15.978	.2681	94.431	158.42	1.3622	61.587

#1	.00301	40.029	.00673	-.00454	10.31	-.00163	-.00022	11.810	-.00033
#2	.00301	39.490	.00695	-.00570	10.35	-.00032	.00394	11.584	-.00084

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				120.00	10.00				
Low Limit				-.00500	-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.17502	.00182	.00081	.00095	.16205
Stddev	.00142	.00007	.00221	.00023	.00080
%RSD	.80902	3.7656	272.58	24.438	.49505

#1	.17602	.00187	-.00075	.00079	.16262
#2	.17402	.00177	.00237	.00111	.16148

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4503.6	7372.3	85158.	10492.
Stddev	6.0	7.4	112.	128.
%RSD	.13410	.10038	.13113	1.2224

#1	4507.9	7377.5	85237.	10401.
#2	4499.3	7367.1	85079.	10583.

Sample Name: 480-45394-K-3-A Acquired: 9/11/2013 23:13:02 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00008	.56698	.00203	.08058	.16081	-.00008	116.59	.00021	.00020
Stddev	.00017	.00247	.00048	.00015	.00073	.00002	.16	.00012	.00011
%RSD	196.32	.43650	23.833	.18349	.45231	29.088	.13320	53.854	55.730

#1	.00020	.56873	.00169	.08048	.16133	-.00006	116.70	.00029	.00012
#2	-.00003	.56523	.00238	.08069	.16030	-.00010	116.48	.00013	.00028

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00159	.00281	8.3653	7.7794	10.868	.05019	4.6115	.30048	.30106
Stddev	.00000	.00027	.0261	.0048	.041	.00043	.0338	.00166	.00070
%RSD	.04881	9.6219	.31197	.06144	.37796	.85810	.73334	.55238	.23274

#1	.00159	.00262	8.3838	7.7828	10.839	.04989	4.6354	.30165	.30155
#2	.00159	.00300	8.3469	7.7761	10.897	.05050	4.5876	.29930	.30056

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00029	113.11	.00061	-.00299	1.942	-.00250	.00063	18.102	-.00020
Stddev	.00004	.09	.00007	.00019	.012	.00010	.00399	.008	.00057
%RSD	12.318	.07524	11.724	6.2577	.6064	4.1720	630.01	.04684	280.95

#1	.00026	113.17	.00066	-.00312	1.951	-.00257	-.00219	18.108	-.00060
#2	.00031	113.05	.00056	-.00286	1.934	-.00243	.00345	18.096	.00020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.44039	.02500	-.00164	.00207	.01283
Stddev	.00071	.00019	.00059	.00023	.00026
%RSD	.16114	.76140	35.680	11.338	2.0416

#1	.44089	.02486	-.00123	.00191	.01301
#2	.43989	.02513	-.00206	.00224	.01264

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4291.9	7255.6	83466.	10430.
Stddev	.9	.1	478.	15.
%RSD	.02038	.00201	.57233	.14084

#1	4291.3	7255.5	83128.	10419.
#2	4292.5	7255.7	83803.	10440.

Sample Name: 480-45394-K-4-A Acquired: 9/11/2013 23:15:55 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00018	.30804	.00195	.01851	.02419	-0.00004	21.063	.00008	.00504
Stddev	.00084	.00973	.00084	.00002	.00004	.00006	.053	.00014	.00016
%RSD	465.94	3.1596	43.348	.11677	.17207	176.38	.25133	178.28	3.1090

#1	.00041	.31492	.00254	.01849	.02416	-0.00008	21.100	-0.00002	.00515
#2	-0.00077	.30115	.00135	.01852	.02422	.00001	21.026	.00018	.00493

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00061	.00522	.89515	3.0864	3.2822	-0.00007	.67693	.47756	.46055
Stddev	.00007	.00000	.00376	.0263	.0259	.00008	.00043	.00085	.00318
%RSD	12.223	.06731	.42025	.85280	.78883	121.65	.06324	.17717	.69061

#1	.00056	.00522	.89249	3.1050	3.3005	-0.00001	.67662	.47696	.45830
#2	.00066	.00521	.89781	3.0678	3.2639	-0.00012	.67723	.47816	.46280

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00052	18.839	-0.00018	.00653	1.244	-0.00097	-0.00113	3.9698	-0.00029
Stddev	.00000	.030	.00000	.00011	.006	.00035	.00174	.0338	.00013
%RSD	.63994	.15859	.26751	1.6147	.4907	35.827	153.41	.85202	46.129

#1	.00052	18.860	-0.00018	.00646	1.248	-0.00072	-.00236	3.9937	-0.00019
#2	.00052	18.818	-0.00018	.00661	1.239	-0.00121	.00010	3.9458	-0.00038

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.09037	.00639	-0.00186	.00109	.00503
Stddev	.00000	.00020	.00228	.00006	.00006
%RSD	.00440	3.1381	122.83	5.5085	1.1802

#1	.09037	.00625	-0.00347	.00105	.00499
#2	.09038	.00653	-0.00024	.00113	.00507

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4707.4	7549.7	86992.	10569.
Stddev	.1	9.8	504.	34.
%RSD	.00118	.13040	.57894	.31697

#1	4707.4	7556.6	87348.	10546.
#2	4707.3	7542.7	86636.	10593.

Sample Name: CCV Acquired: 9/11/2013 23:18:46 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49424	24.807	.49832	.48225	.49313	.49897	24.621	.48705	.48963	.49811	.49080	23.988
Stddev	.00023	.121	.00004	.00115	.00208	.00015	.016	.00135	.00043	.00054	.00100	.032
%RSD	.04712	.48943	.00898	.23886	.42099	.03053	.06459	.27651	.08864	.10795	.20413	.13448

#1	.49407	24.722	.49836	.48144	.49166	.49908	24.633	.48801	.48994	.49850	.49151	24.011
#2	.49440	24.893	.49829	.48307	.49460	.49886	24.610	.48610	.48933	.49773	.49009	23.965

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.517	25.833	.48503	23.925	.50109	.48970	.48806	24.077	.49313	.49540	24.85	.50439
Stddev	.096	.138	.00154	.057	.00024	.00207	.00123	.042	.00029	.00315	.01	.00085
%RSD	.39297	.53259	.31747	.23959	.04704	.42224	.25297	.17328	.05944	.63575	.0202	.16838

#1	24.449	25.930	.48394	23.965	.50093	.48824	.48894	24.047	.49292	.49763	24.85	.50379
#2	24.585	25.736	.48612	23.884	.50126	.49116	.48719	24.106	.49334	.49317	24.85	.50499

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48917	24.640	.49268	.48972	.48671	.49598	.48543	.49080
Stddev	.00055	.079	.00270	.00160	.00018	.00074	.00062	.00034
%RSD	.11321	.32157	.54859	.32646	.03766	.14820	.12749	.06932

#1	.48957	24.583	.49459	.48859	.48658	.49546	.48499	.49055
#2	.48878	24.696	.49077	.49085	.48684	.49649	.48587	.49104

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4531.7	7568.8	86131.	10523.
Stddev	.2	6.6	23.	6.
%RSD	.00520	.08725	.02651	.05766
#1	4531.5	7564.1	86147.	10519.
#2	4531.8	7573.4	86115.	10528.

Sample Name: CCB Acquired: 9/11/2013 23:21:33 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00035	.02241	-.00063	.00011	.00010	.00007	.00496	.00013	.00014	.00008	-.00034	.00339
Stddev	.00018	.00648	.00022	.00020	.00001	.00004	.00466	.00005	.00004	.00046	.00017	.00019
%RSD	52.680	28.901	34.912	176.04	11.574	57.655	94.006	35.787	28.944	562.40	49.353	5.6084

#1	.00022	.01783	-.00047	-.00003	.00009	.00004	.00826	.00016	.00011	-.00024	-.00046	.00326
#2	.00048	.02700	-.00078	.00026	.00010	.00009	.00166	.00009	.00017	.00041	-.00022	.00353

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09174	.00659	-.00066	.00102	.00013	.00018	.00017	.08560	.00009	-.00071	F .0551	-.00117
Stddev	.04871	.00013	.00008	.00052	.00008	.00042	.00012	.00142	.00020	.00027	.0043	.00089
%RSD	53.099	1.9302	11.682	51.462	63.495	228.59	71.134	1.6621	222.71	37.958	7.723	76.340

#1	.12618	.00650	-.00072	.00065	.00019	-.00011	.00026	.08459	-.00005	-.00052	.0581	-.00180
#2	.05729	.00668	-.00061	.00138	.00007	.00048	.00009	.08660	.00024	-.00090	.0521	-.00054

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00355	.01772	-.00012	.00005	.00033	-.00249	.00010	-.00048
Stddev	.00011	.01000	.00054	.00003	.00023	.00036	.00012	.00027
%RSD	3.0875	56.415	457.21	63.167	68.054	14.664	121.77	56.447

#1	-.00363	.02479	.00026	.00003	.00049	-.00223	.00001	-.00067
#2	-.00347	.01065	-.00050	.00008	.00017	-.00275	.00018	-.00029

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4937.1	7723.8	89693.	10645.
Stddev	5.5	1.5	315.	12.
%RSD	.11126	.01989	.35076	.11257
#1	4941.0	7722.8	89471.	10653.
#2	4933.2	7724.9	89916.	10636.

Sample Name: 480-45393-A-1-A Acquired: 9/11/2013 23:24:26 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00007	.05611	.00175	1.0174	.31068	-.00008	101.98	.00045	.00049
Stddev	.00041	.00701	.00007	.0029	.00051	.00001	.78	.00004	.00018
%RSD	608.09	12.500	3.7953	.28305	.16395	6.3529	.76785	8.2468	37.150

#1	.00035	.06107	.00170	1.0153	.31104	-.00008	102.53	.00047	.00036
#2	-.00022	.05115	.00179	1.0194	.31032	-.00008	101.42	.00042	.00062

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00091	.00509	37.090	51.006	54.230	.00063	23.823	1.1911	1.2075
Stddev	.00017	.00034	.231	.382	.532	.00062	.036	.0010	.0053
%RSD	19.074	6.6308	.62248	.74865	.98032	97.920	.15262	.08723	.43796

#1	.00078	.00533	37.253	51.276	54.606	.00107	23.797	1.1904	1.2112
#2	.00103	.00485	36.927	50.736	53.854	.00019	23.849	1.1919	1.2037

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00023	160.47	.01284	-.00229	F 13.23	-.00213	-.00152	5.1834	.00002
Stddev	.00005	.53	.00019	.00246	.02	.00126	.00197	.0357	.00049
%RSD	23.727	.32806	1.4587	107.18	.1593	59.100	129.42	.68884	2517.6

#1	-.00019	160.84	.01271	-.00055	13.22	-.00302	-.00013	5.2087	-.00033
#2	-.00027	160.10	.01297	-.00403	13.25	-.00124	-.00291	5.1582	.00037

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.57829	.00086	-.00323	.00412	.03683
Stddev	.00574	.00042	.00192	.00032	.00012
%RSD	.99297	49.141	59.601	7.7226	.32351

#1	.58235	.00056	-.00187	.00389	.03691
#2	.57423	.00116	-.00459	.00434	.03674

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4223.2	7236.4	82710.	10569.
Stddev	4.1	4.4	32.	7.
%RSD	.09735	.06099	.03927	.07023

#1	4220.3	7239.5	82733.	10564.
#2	4226.1	7233.3	82687.	10575.

Sample Name: 480-45393-B-2-A Acquired: 9/11/2013 23:27:16 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00030	.04687	.00410	.97689	.29621	-.00001	98.273	.00031	.00039
Stddev	.00066	.00574	.00033	.00105	.00074	.00008	.386	.00001	.00005
%RSD	218.59	12.242	8.1345	.10698	.25105	677.39	.39280	1.7820	13.033

#1	.00076	.05093	.00386	.97615	.29673	-.00007	98.546	.00032	.00042
#2	-.00016	.04281	.00433	.97763	.29568	.00004	98.000	.00031	.00035

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00115	.00109	35.207	48.797	49.090	.00083	23.030	1.1467	1.1548
Stddev	.00009	.00000	.038	.019	.375	.00022	.044	.0005	.0071
%RSD	7.3904	.34260	.10905	.03843	.76303	25.846	.19303	.04694	.61849

#1	.00109	.00108	35.180	48.810	49.355	.00068	23.062	1.1471	1.1498
#2	.00121	.00109	35.235	48.784	48.825	.00099	22.999	1.1463	1.1599

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	154.24	.00553	-.00254	F 16.68	-.00112	-.00084	5.0544	.00412
Stddev	.00002	.27	.00037	.00065	.05	.00030	.00065	.0486	.00014
%RSD	14.809	.17771	6.7566	25.510	.3253	26.833	76.544	.96134	3.4603

#1	.00017	154.04	.00580	-.00208	16.72	-.00134	-.00039	5.0888	.00402
#2	.00014	154.43	.00527	-.00299	16.65	-.00091	-.00130	5.0201	.00423

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.55282	.00070	-.00184	.00417	.00134
Stddev	.00117	.00022	.00097	.00009	.00041
%RSD	.21136	31.255	52.890	2.0819	30.153

#1	.55200	.00086	-.00252	.00411	.00106
#2	.55365	.00055	-.00115	.00423	.00163

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4247.4	7275.2	83069.	10613.
Stddev	2.6	5.6	19.	67.
%RSD	.06154	.07689	.02297	.63122

#1	4249.2	7279.1	83082.	10566.
#2	4245.6	7271.2	83056.	10660.

Sample Name: MB 480-138332/1-A Acquired: 9/11/2013 23:30:07 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00075	.04588	.00051	.00627	.00011	-.00005	.09631	.00001	.00008
Stddev	.00003	.00026	.00216	.00003	.00001	.00005	.00122	.00003	.00009
%RSD	3.8916	.57588	427.80	.47485	12.154	93.368	1.2713	446.14	112.10

#1	.00077	.04569	.00204	.00629	.00012	-.00009	.09544	-.00002	.00014
#2	.00073	.04607	-.00102	.00624	.00010	-.00002	.09717	.00003	.00002

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00023	-.00025	.00642	.12324	.01281	.00013	.01679	.00018	-.00002
Stddev	.00037	.00017	.00219	.06199	.00042	.00064	.00238	.00004	.00015
%RSD	159.39	68.264	34.074	50.299	3.2862	488.94	14.176	20.739	641.39

#1	-.00003	-.00013	.00488	.07941	.01311	-.00032	.01847	.00016	-.00013
#2	.00049	-.00037	.00797	.16707	.01251	.00058	.01511	.00021	.00008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00022	.11238	-.00045	-.00018	F .0708	-.00102	.00016	.00903	-.00023
Stddev	.00007	.00021	.00005	.00031	.0014	.00157	.00156	.00274	.00032
%RSD	31.052	.18704	10.275	177.08	1.996	153.70	992.15	30.317	136.83

#1	.00017	.11223	-.00042	.00004	.0698	.00009	.00126	.00709	-.00001
#2	.00027	.11253	-.00048	-.00040	.0718	-.00214	-.00095	.01096	-.00046

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass
High Limit					.0022				
Low Limit					-.0040				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00063	.00043	-.00170	.00019	.00002
Stddev	.00001	.00004	.00108	.00011	.00022
%RSD	2.0667	8.5170	63.634	58.240	1230.4

#1	.00064	.00041	-.00093	.00027	-.00014
#2	.00062	.00046	-.00246	.00011	.00018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4973.6	7814.1	90959.	10835.
Stddev	16.4	20.0	116.	32.
%RSD	.33059	.25541	.12725	.29173

#1	4962.0	7800.0	90877.	10857.
#2	4985.2	7828.3	91041.	10812.

Sample Name: LCS 480-138332/2-A Acquired: 9/11/2013 23:32:58 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05177	10.198	.20808	.20817	.20402	.21000	10.112	.20261	.20278
Stddev	.00011	.004	.00370	.00101	.00056	.00038	.024	.00012	.00024
%RSD	.21293	.03540	1.7793	.48325	.27227	.18133	.23837	.05808	.11727

#1	.05169	10.195	.21070	.20746	.20442	.21027	10.095	.20269	.20295
#2	.05185	10.200	.20546	.20888	.20363	.20973	10.129	.20252	.20261

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20622	.20289	10.096	9.8372	10.004	.19668	10.327	.20601	.19653
Stddev	.00106	.00015	.016	.0193	.087	.00142	.076	.00119	.00047
%RSD	.51392	.07193	.16071	.19584	.87179	.72007	.73661	.57616	.24005

#1	.20547	.20279	10.107	9.8235	9.9426	.19567	10.274	.20517	.19620
#2	.20696	.20299	10.084	9.8508	10.066	.19768	10.381	.20685	.19686

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20616	9.7203	.20257	.20269	F .0355	.20418	.20130	10.042	.19436
Stddev	.00002	.0203	.00063	.00040	.0022	.00024	.00113	.032	.00039
%RSD	.01006	.20927	.30865	.19979	6.063	.11934	.56073	.32229	.20026

#1	.20617	9.7060	.20301	.20298	.0370	.20401	.20050	10.019	.19409
#2	.20614	9.7347	.20212	.20240	.0340	.20436	.20210	10.065	.19464

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					11.50				
Low Limit					8.500				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20016	.19398	.20466	.20145	.20393
Stddev	.00032	.00070	.00063	.00053	.00193
%RSD	.16057	.36300	.31024	.26171	.94591

#1	.20039	.19348	.20421	.20108	.20256
#2	.19994	.19448	.20511	.20182	.20529

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4761.2	7761.4	89019.	10750.
Stddev	7.8	12.8	362.	1.
%RSD	.16447	.16466	.40676	.01198

#1	4755.7	7752.4	89275.	10749.
#2	4766.8	7770.4	88763.	10751.

Sample Name: 480-45465-C-1-A Acquired: 9/11/2013 23:35:44 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00026	.93802	.00655	.34885	.04244	.00002	40.444	.00011	.00031
Stddev	.00008	.00756	.00278	.00038	.00001	.00000	.189	.00005	.00015
%RSD	32.666	.80595	42.419	.10989	.03385	.10085	.46801	39.988	47.103

#1	.00031	.93268	.00851	.34912	.04245	.00002	40.310	.00008	.00041
#2	.00020	.94337	.00459	.34857	.04243	.00002	40.578	.00015	.00021

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00164	.00256	.82883	144.49	77.287	.13183	5.2457	.08089	.08016
Stddev	.00011	.00021	.00676	.54	.658	.00020	.0096	.00010	.00016
%RSD	6.8271	8.3432	.81579	.37261	.85147	.15478	.18241	.12018	.20466

#1	.00172	.00241	.82404	144.11	77.752	.13197	5.2525	.08096	.08027
#2	.00156	.00272	.83361	144.87	76.822	.13169	5.2390	.08082	.08004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01885	37.882	.00111	.00814	F 74.29	-.00050	-.00023	8.6441	.00046
Stddev	.00010	.051	.00068	.00137	.03	.00047	.00109	.0308	.00058
%RSD	.51566	.13387	61.369	16.767	.0367	93.889	475.33	.35581	125.31

#1	.01879	37.846	.00063	.00911	74.31	-.00017	.00054	8.6223	.00087
#2	.01892	37.918	.00160	.00718	74.27	-.00083	-.00100	8.6658	.00005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.31255	.01632	-.00117	.00884	.02822
Stddev	.00035	.00016	.00101	.00001	.00043
%RSD	.11284	.95290	85.882	.12012	1.5384

#1	.31230	.01643	-.00046	.00885	.02852
#2	.31280	.01621	-.00189	.00883	.02791

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4471.1	7506.3	85223.	10656.
Stddev	4.8	4.1	151.	59.
%RSD	.10656	.05497	.17769	.55297

#1	4474.5	7503.4	85116.	10698.
#2	4467.8	7509.2	85330.	10615.

Sample Name: 480-45465-C-2-A Acquired: 9/11/2013 23:38:36 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00024	2.4451	.03238	.58154	.10005	.00018	247.00	.00083	.00298
Stddev	.00062	.0035	.00088	.00009	.00008	.00001	1.13	.00001	.00005
%RSD	261.22	.14228	2.7040	.01483	.08378	3.5930	.45868	1.5276	1.7426

#1	.00067	2.4476	.03176	.58161	.09999	.00018	247.80	.00084	.00294
#2	-.00020	2.4427	.03300	.58148	.10011	.00018	246.20	.00082	.00302

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00618	.01616	10.678	39.090	36.616	.02583	45.782	.59660	.60050
Stddev	.00009	.00000	.011	.177	.654	.00051	.054	.00017	.00165
%RSD	1.5144	.02398	.10678	.45346	1.7869	1.9786	.11690	.02812	.27414

#1	.00612	.01616	10.670	38.965	37.079	.02619	45.744	.59648	.60166
#2	.00625	.01615	10.686	39.216	36.153	.02547	45.820	.59672	.59933

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00921	17.169	.00553	.07498	F 76.85	.00503	.00319	17.591	.00086
Stddev	.00007	.095	.00019	.00067	.02	.00137	.00122	.048	.00033
%RSD	.74613	.55112	3.4147	.88920	.0289	27.245	38.325	.27434	38.846

#1	.00916	17.102	.00540	.07450	76.87	.00600	.00233	17.557	.00110
#2	.00926	17.236	.00567	.07545	76.84	.00406	.00406	17.625	.00063

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.2714	.08802	-.00133	.00912	.35165
Stddev	.0086	.00149	.00125	.00006	.00129
%RSD	.38071	1.6892	93.722	.69074	.36674

#1	2.2653	.08697	-.00221	.00908	.35073
#2	2.2776	.08907	-.00045	.00917	.35256

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4236.2	7162.6	82825.	10579.
Stddev	2.0	6.8	182.	52.
%RSD	.04830	.09534	.21991	.48709

#1	4234.8	7157.8	82954.	10616.
#2	4237.7	7167.5	82696.	10543.

Sample Name: 480-45465-C-3-A Acquired: 9/11/2013 23:41:32 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00177	1.3847	.02961	.11980	.01948	-0.00010	60.633	.00029	.00030
Stddev	.00009	.0000	.00080	.00020	.00005	.00003	.074	.00008	.00010
%RSD	4.9596	.00320	2.7117	.16506	.27970	24.638	.12148	27.796	34.812

#1	.00183	1.3847	.03018	.11966	.01945	-0.00008	60.581	.00023	.00023
#2	.00170	1.3847	.02904	.11994	.01952	-0.00012	60.685	.00035	.00037

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00149	.09985	.24829	539.43	80.864	.14500	1.3360	.00529	.00557
Stddev	.00013	.00056	.00173	1.48	2.533	.00032	.0151	.00000	.00002
%RSD	1.1019	.55701	.69795	.27499	3.1329	.21752	1.1333	.06850	.35604

#1	.01158	.09945	.24951	540.48	82.656	.14478	1.3467	.00529	.00556
#2	.01140	.10024	.24706	538.38	79.073	.14523	1.3253	.00530	.00559

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08749	46.918	.01261	F -.00857	F 104.0	.00123	.04185	57.952	-.00004
Stddev	.00004	.037	.00008	.00004	.1	.00204	.00170	.104	.00021
%RSD	.04392	.07857	.65670	.46169	.0655	166.14	4.0633	.17957	567.43

#1	.08746	46.944	.01255	-.00855	104.0	-.00021	.04065	58.026	-.00018
#2	.08752	46.892	.01267	-.00860	103.9	.00267	.04305	57.878	.00011

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				120.00	10.00				
Low Limit				-.00500	-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.31817	.00440	.00040	.06546	.01298
Stddev	.00008	.00038	.00204	.00013	.00011
%RSD	.02614	8.6020	506.48	.20371	.84773

#1	.31811	.00413	.00184	.06537	.01305
#2	.31823	.00467	-.00104	.06556	.01290

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4145.5	7215.9	81315.	10585.
Stddev	5.1	10.9	129.	6.
%RSD	.12384	.15117	.15839	.05800

#1	4149.1	7223.6	81224.	10589.
#2	4141.9	7208.2	81406.	10581.

Sample Name: 480-45465-C-4-A Acquired: 9/11/2013 23:44:25 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00040	.70391	.00348	.36018	.04903	-.00001	52.788	.00011	.00017
Stddev	.00052	.00240	.00119	.00054	.00014	.00003	.039	.00007	.00010
%RSD	131.43	.34159	34.108	.15086	.28568	394.10	.07457	63.282	58.788

#1	.00003	.70561	.00432	.36057	.04913	.00001	52.760	.00006	.00010
#2	.00076	.70221	.00264	.35980	.04893	-.00003	52.816	.00016	.00024

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00178	.00255	.63838	142.68	54.454	.14202	7.4152	.10002	.09865
Stddev	.00002	.00001	.00103	.19	.650	.00017	.0111	.00056	.00029
%RSD	1.1407	.21569	.16161	.13372	1.1932	.12065	.14945	.56031	.29751

#1	.00176	.00254	.63911	142.55	53.995	.14214	7.4231	.09962	.09886
#2	.00179	.00255	.63765	142.82	54.914	.14190	7.4074	.10041	.09844

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01728	34.645	.00102	.00409	F 74.05	-.00092	-.00069	8.2808	.00001
Stddev	.00014	.065	.00007	.00192	.06	.00015	.00571	.0490	.00020
%RSD	.80053	.18804	7.3128	46.995	.0822	16.629	830.00	.59107	2201.4

#1	.01718	34.599	.00097	.00273	74.10	-.00082	-.00472	8.2462	.00015
#2	.01737	34.691	.00107	.00546	74.01	-.00103	.00335	8.3154	-.00013

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.40060	.01021	-.00247	.00779	.02292
Stddev	.00117	.00039	.00024	.00008	.00060
%RSD	.29098	3.8602	9.6757	1.0311	2.5976

#1	.39978	.00993	-.00264	.00784	.02334
#2	.40143	.01048	-.00230	.00773	.02250

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4406.1	7379.7	84495.	10623.
Stddev	1.6	6.3	273.	1.
%RSD	.03526	.08557	.32284	.01153

#1	4407.2	7375.2	84303.	10623.
#2	4405.0	7384.2	84688.	10624.

Sample Name: 480-45465-C-4-A SD@5 Acquired: 9/11/2013 23:47:17 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00051	.16006	-.00089	.07303	.01030	.00008	10.780	.00013	.00025
Stddev	.00043	.01785	.00238	.00019	.00001	.00003	.018	.00004	.00009
%RSD	85.854	11.154	268.89	.25483	.14456	45.521	.16744	28.682	34.406

#1	.00020	.17269	.00080	.07290	.01031	.00005	10.793	.00010	.00031
#2	.00081	.14744	-.00257	.07316	.01029	.00010	10.767	.00015	.00019

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00055	.00041	.13008	28.923	20.382	.02776	1.5254	.02060	.02010
Stddev	.00023	.00019	.00215	.136	.067	.00099	.0022	.00018	.00068
%RSD	41.281	45.751	1.6535	.47011	.32710	3.5814	.14639	.87598	3.3713

#1	.00039	.00054	.12856	29.019	20.430	.02846	1.5270	.02073	.01962
#2	.00071	.00028	.13160	28.827	20.335	.02705	1.5238	.02047	.02058

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00358	6.9758	-.00015	.00087	F 14.71	-.00117	-.00428	1.6897	.00001
Stddev	.00002	.0319	.00017	.00047	.01	.00165	.00254	.0109	.00009
%RSD	.43814	.45687	112.49	53.535	.0360	141.67	59.281	.64242	600.65

#1	.00359	6.9983	-.00003	.00120	14.71	-.00233	-.00249	1.6974	.00007
#2	.00357	6.9533	-.00026	.00054	14.71	.00000	-.00608	1.6820	-.00005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.08191	.00232	-.00181	.00174	.00420
Stddev	.00002	.00003	.00021	.00014	.00007
%RSD	.02358	1.5045	11.850	8.0473	1.7087

#1	.08190	.00230	-.00196	.00184	.00425
#2	.08192	.00235	-.00166	.00164	.00415

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4756.8	7610.9	87357.	10655.
Stddev	4.1	2.5	79.	3.
%RSD	.08595	.03276	.09032	.02657

#1	4753.9	7612.6	87302.	10653.
#2	4759.6	7609.1	87413.	10657.

Sample Name: 480-45465-C-4-A PDS Acquired: 9/11/2013 23:50:10 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05402	11.194	.22613	.55980	.25367	.21711	61.943	.21027	.21307
Stddev	.00081	.028	.00287	.00056	.00114	.00035	.235	.00036	.00003
%RSD	1.5062	.25353	1.2696	.10002	.45010	.16217	.37921	.17000	.01239

#1	.05344	11.214	.22816	.55940	.25286	.21736	62.109	.21052	.21309
#2	.05459	11.174	.22410	.56019	.25447	.21686	61.777	.21002	.21305

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20839	.21262	10.810	150.27	70.997	.34656	17.499	.30396	.30385
Stddev	.00053	.00117	.026	.47	2.164	.00121	.008	.00035	.00100
%RSD	.25214	.54908	.24246	.31386	3.0477	.34925	.04748	.11469	.33068

#1	.20877	.21180	10.829	150.60	72.527	.34741	17.505	.30420	.30314
#2	.20802	.21345	10.792	149.93	69.467	.34570	17.493	.30371	.30456

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.22314	43.984	.21101	.21367	F 71.87	.21330	.21590	18.604	.20051
Stddev	.00052	.164	.00017	.00129	.11	.00225	.00099	.011	.00063
%RSD	.23084	.37363	.08211	.60268	.1484	1.0535	.45670	.06032	.31330

#1	.22277	44.100	.21088	.21276	71.79	.21489	.21520	18.612	.20095
#2	.22350	43.868	.21113	.21459	71.94	.21171	.21660	18.596	.20006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.59487	.21182	.21213	.21677	.22711
Stddev	.00293	.00068	.00007	.00080	.00037
%RSD	.49262	.32210	.03240	.36891	.16454

#1	.59695	.21231	.21218	.21621	.22737
#2	.59280	.21134	.21208	.21734	.22684

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4328.4	7362.5	83915.	10569.
Stddev	3.9	4.2	131.	48.
%RSD	.08975	.05733	.15631	.45737
#1	4325.7	7359.5	84008.	10535.
#2	4331.2	7365.5	83822.	10603.

Sample Name: CCV Acquired: 9/11/2013 23:52:57 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49708	24.905	.49927	.48428	.49748	.50010	24.774	.48595	.49003	.49765	.49345	23.960
Stddev	.00026	.064	.00012	.00026	.00008	.00005	.030	.00031	.00026	.00202	.00078	.048
%RSD	.05188	.25585	.02472	.05272	.01562	.01030	.12146	.06419	.05339	.40608	.15746	.19964

#1	.49690	24.860	.49935	.48410	.49743	.50006	24.752	.48617	.49022	.49908	.49290	23.993
#2	.49726	24.950	.49918	.48446	.49754	.50014	24.795	.48573	.48985	.49622	.49400	23.926

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.670	F 21.116	.48587	23.884	.49962	.48812	.48634	24.071	.49354	.49537	24.96	.50981
Stddev	.007	.384	.00121	.043	.00077	.00367	.00008	.002	.00051	.00066	.02	.00060
%RSD	.02895	1.8205	.24962	.17810	.15435	.75222	.01742	.01034	.10259	.13346	.0755	.11765

#1	24.675	20.844	.48672	23.914	.50017	.49072	.48628	24.069	.49390	.49490	24.95	.50939
#2	24.665	21.388	.48501	23.854	.49908	.48552	.48640	24.072	.49319	.49584	24.98	.51024

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value		25.000										
Range		-10.000%										

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49009	24.741	.48914	.49124	.48520	.49630	.48551	.49101
Stddev	.00075	.092	.00138	.00032	.00200	.00073	.00154	.00357
%RSD	.15234	.37291	.28292	.06416	.41300	.14780	.31700	.72790

#1	.49061	24.676	.49012	.49101	.48661	.49578	.48660	.49354
#2	.48956	24.806	.48816	.49146	.48378	.49682	.48442	.48849

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4546.2	7595.0	86171.	10536.
Stddev	1.3	.8	269.	3.
%RSD	.02860	.01073	.31174	.02975
#1	4545.3	7594.4	85981.	10538.
#2	4547.2	7595.6	86361.	10533.

Sample Name: CCB Acquired: 9/11/2013 23:55:45 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00002	.03371	-.00176	.00054	.00011	.00009	.00192	.00009	.00010	.00038	-.00065	.00392
Stddev	.00034	.01986	.00097	.00001	.00000	.00007	.00109	.00003	.00006	.00021	.00037	.00180
%RSD	1906.4	58.918	55.226	2.3555	1.7240	77.413	56.837	31.333	58.202	53.796	57.961	45.946

#1	-.00022	.01967	-.00107	.00055	.00011	.00014	.00269	.00011	.00006	.00053	-.00038	.00265
#2	.00026	.04776	-.00245	.00053	.00011	.00004	.00115	.00007	.00014	.00024	-.00091	.00520

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.17503	.01585	-.00066	.00469	.00020	-.00014	.00013	.02864	-.00027	-.00011	F .0295	-.00144
Stddev	.02321	.00056	.00003	.00187	.00006	.00027	.00024	.00343	.00029	.00060	.0005	.00079
%RSD	13.263	3.5193	4.7934	40.005	28.933	196.35	188.44	11.965	108.41	530.69	1.532	54.614

#1	.19144	.01624	-.00068	.00601	.00016	-.00033	.00029	.02622	-.00006	.00031	.0298	-.00089
#2	.15861	.01546	-.00064	.00336	.00024	.00005	-.00004	.03107	-.00047	-.00054	.0291	-.00200

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00164	.04546	-.00022	.00016	.00036	-.00090	.00036	-.00035
Stddev	.00062	.01479	.00027	.00003	.00015	.00037	.00022	.00016
%RSD	38.138	32.526	124.30	17.238	42.263	40.474	60.819	47.114

#1	-.00208	.05592	-.00041	.00014	.00025	-.00064	.00021	-.00046
#2	-.00120	.03501	-.00003	.00018	.00047	-.00116	.00052	-.00023

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4941.2	7738.9	89129.	10581.
Stddev	4.1	8.9	308.	22.
%RSD	.08288	.11502	.34500	.20365
#1	4938.3	7732.6	88911.	10565.
#2	4944.1	7745.2	89346.	10596.

Sample Name: 480-45465-C-4-B MS Acquired: 9/11/2013 23:58:37 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05199	11.077	.21544	.55908	.24786	.20830	58.068	.20588	.20695
Stddev	.00086	.018	.00061	.00093	.00100	.00026	.105	.00031	.00013
%RSD	1.6568	.16602	.28116	.16686	.40175	.12552	.18082	.14920	.06338

#1	.05138	11.064	.21501	.55842	.24716	.20849	58.142	.20566	.20704
#2	.05260	11.090	.21587	.55974	.24856	.20812	57.993	.20610	.20685

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20561	.20730	10.463	153.25	75.008	.33823	15.997	.31575	.31560
Stddev	.00011	.00041	.001	.26	.381	.00188	.008	.00133	.00186
%RSD	.05375	.19592	.01362	.16786	.50742	.55564	.04870	.41979	.58997

#1	.20568	.20702	10.464	153.07	75.277	.33690	15.992	.31669	.31428
#2	.20553	.20759	10.462	153.43	74.739	.33956	16.003	.31482	.31692

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.22251	45.908	.20694	.20818	F 74.07	.21025	.20185	18.354	.20084
Stddev	.00068	.196	.00043	.00058	.01	.00141	.00216	.030	.00003
%RSD	.30546	.42716	.20827	.27960	.0173	.66840	1.0720	.16120	.01561

#1	.22203	45.770	.20664	.20860	74.06	.20926	.20338	18.375	.20082
#2	.22299	46.047	.20725	.20777	74.08	.21124	.20032	18.333	.20086

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.55625	.20282	.20075	.20860	.22943
Stddev	.00229	.00044	.00202	.00099	.00064
%RSD	.41258	.21692	1.0071	.47423	.27785

#1	.55463	.20251	.20218	.20790	.22898
#2	.55787	.20313	.19932	.20930	.22988

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4328.9	7355.6	83957.	10579.
Stddev	2.1	10.6	295.	71.
%RSD	.04907	.14344	.35088	.66878

#1	4330.4	7363.0	84165.	10529.
#2	4327.4	7348.1	83749.	10629.

Sample Name: 480-45465-C-4-C MSD Acquired: 9/12/2013 0:01:22 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05296	11.507	.21718	.55119	.25208	.20983	55.122	.20749	.20814
Stddev	.00053	.035	.00211	.00073	.00106	.00062	.042	.00042	.00027
%RSD	.99787	.30064	.97307	.13282	.42185	.29363	.07688	.20466	.13121

#1	.05259	11.531	.21867	.55171	.25133	.21027	55.152	.20779	.20833
#2	.05334	11.482	.21568	.55068	.25283	.20939	55.092	.20719	.20795

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20820	.20935	10.759	151.14	68.126	.33299	15.549	.30881	.30858
Stddev	.00106	.00043	.037	.07	3.180	.00029	.025	.00015	.00174
%RSD	.50713	.20474	.33947	.04915	4.6676	.08848	.16157	.04851	.56314

#1	.20745	.20904	10.784	151.09	70.375	.33279	15.567	.30892	.30735
#2	.20894	.20965	10.733	151.19	65.878	.33320	15.532	.30871	.30981

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.22416	46.513	.20907	.21412	F 72.31	.21050	.19665	19.034	.20011
Stddev	.00017	.040	.00074	.00047	.03	.00027	.00274	.038	.00085
%RSD	.07368	.08704	.35191	.22118	.0452	.12958	1.3953	.19727	.42241

#1	.22427	46.485	.20959	.21379	72.29	.21031	.19471	19.061	.20071
#2	.22404	46.542	.20855	.21446	72.34	.21069	.19859	19.008	.19951

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.51880	.20959	.20217	.21301	.23512
Stddev	.00005	.00128	.00459	.00024	.00048
%RSD	.00974	.60877	2.2725	.11440	.20289

#1	.51876	.20869	.20542	.21283	.23479
#2	.51883	.21049	.19892	.21318	.23546

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4335.3	7360.3	83733.	10546.
Stddev	4.8	7.5	111.	26.
%RSD	.11167	.10166	.13221	.24708

#1	4331.9	7355.0	83812.	10528.
#2	4338.8	7365.6	83655.	10565.

Sample Name: 480-45465-C-5-A Acquired: 9/12/2013 0:04:07 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00046	.06715	.00358	.52705	.05256	.00002	48.961	.00027	.00004
Stddev	.00092	.01577	.00034	.00029	.00013	.00002	.062	.00011	.00007
%RSD	200.62	23.480	9.5117	.05447	.24926	106.45	.12606	40.890	197.41

#1	.00111	.05600	.00382	.52685	.05247	.00004	49.004	.00034	.00009
#2	-.00019	.07829	.00334	.52726	.05266	.00001	48.917	.00019	-.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00110	.00165	.08837	20.663	17.220	.05107	13.271	.01167	.01099
Stddev	.00013	.00013	.00276	.048	.008	.00025	.036	.00002	.00012
%RSD	11.483	8.1454	3.1262	.23457	.04388	.49563	.27458	.18403	1.0599

#1	.00119	.00174	.09033	20.698	17.214	.05090	13.297	.01168	.01091
#2	.00101	.00155	.08642	20.629	17.225	.05125	13.246	.01165	.01108

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01245	14.203	.00032	-.00466	F 54.76	-.00081	-.00072	14.667	-.00028
Stddev	.00003	.095	.00036	.00005	.17	.00002	.00232	.063	.00014
%RSD	.21335	.67158	113.58	1.0877	.3163	2.6921	319.98	.43073	51.106

#1	.01247	14.270	.00006	-.00463	54.89	-.00080	.00092	14.711	-.00038
#2	.01244	14.135	.00057	-.00470	54.64	-.00083	-.00236	14.622	-.00018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.42625	.00136	-.00392	.00193	.00491
Stddev	.00155	.00001	.00203	.00005	.00016
%RSD	.36469	.76875	51.698	2.3549	3.1897

#1	.42734	.00136	-.00536	.00196	.00502
#2	.42515	.00137	-.00249	.00190	.00480

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4609.9	7483.2	85818.	10576.
Stddev	4.5	6.9	207.	11.
%RSD	.09780	.09236	.24169	.10031

#1	4606.8	7478.3	85671.	10583.
#2	4613.1	7488.0	85964.	10568.

Sample Name: 480-45465-C-6-A Acquired: 9/12/2013 0:07:00 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00053	10.048	.04948	.94136	.10499	.00049	508.48	.00247	.00886
Stddev	.00065	.009	.00145	.00005	.00037	.00008	1.21	.00004	.00001
%RSD	123.71	.08515	2.9391	.00573	.35635	16.915	.23715	1.7930	.10771

#1	.00099	10.054	.05051	.94132	.10526	.00043	507.62	.00250	.00886
#2	.00007	10.042	.04845	.94140	.10473	.00055	509.33	.00244	.00885

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02998	.28414	42.221	55.519	53.806	.07113	204.67	1.9523	2.0299
Stddev	.00019	.00106	.111	.029	.309	.00128	.22	.0010	.0034
%RSD	.62816	.37159	.26194	.05190	.57350	1.7946	.10681	.05157	.16682

#1	.03011	.28489	42.143	55.499	53.588	.07023	204.52	1.9516	2.0323
#2	.02985	.28339	42.300	55.539	54.024	.07203	204.83	1.9530	2.0276

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02502	74.239	.03924	.20153	F 407.2	.07180	.00118	32.611	.00396
Stddev	.00026	.212	.00003	.00222	.1	.00058	.00155	.017	.00056
%RSD	1.0286	.28560	.08895	1.0997	.0251	.81036	131.71	.05163	14.038

#1	.02484	74.089	.03927	.20310	407.3	.07221	.00228	32.623	.00436
#2	.02520	74.389	.03922	.19996	407.2	.07139	.00008	32.599	.00357

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	3.6476	.28506	-.00091	.02101	.84651
Stddev	.0010	.00211	.00041	.00000	.00092
%RSD	.02657	.73887	44.391	.01648	.10844

#1	3.6469	.28357	-.00063	.02101	.84716
#2	3.6482	.28655	-.00120	.02101	.84586

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3835.4	6747.9	78296.	10349.
Stddev	2.5	6.5	87.	50.
%RSD	.06489	.09591	.11095	.47864

#1	3837.2	6752.4	78234.	10384.
#2	3833.7	6743.3	78357.	10314.

Sample Name: 480-45465-C-7-A Acquired: 9/12/2013 0:09:54 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00240	1.5572	.02765	.41554	.12469	.00007	279.65	.01815	.00465
Stddev	.00005	.0073	.00100	.00032	.00049	.00001	.75	.00010	.00008
%RSD	1.9597	.46700	3.6241	.07736	.39257	20.008	.26872	.53715	1.7621

#1	.00237	1.5521	.02836	.41577	.12503	.00008	280.18	.01808	.00459
#2	.00243	1.5624	.02694	.41532	.12434	.00006	279.11	.01822	.00471

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00720	.93840	11.394	81.109	58.291	.02268	58.492	.61216	.62506
Stddev	.00013	.00262	.003	.163	.487	.00039	.133	.00087	.00163
%RSD	1.8483	.27922	.02425	.20098	.83557	1.7231	.22772	.14240	.26006

#1	.00729	.94026	11.396	81.224	57.946	.02240	58.398	.61154	.62391
#2	.00710	.93655	11.392	80.993	58.635	.02296	58.586	.61277	.62621

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01010	29.714	.02118	1.3736	F 126.3	.14261	.09080	13.117	.00085
Stddev	.00001	.038	.00013	.0013	.1	.00299	.00236	.049	.00008
%RSD	.07643	.12803	.59830	.09421	.0793	2.0977	2.6008	.37227	9.7653

#1	.01009	29.687	.02127	1.3746	126.4	.14472	.08913	13.151	.00079
#2	.01010	29.741	.02109	1.3727	126.2	.14049	.09247	13.082	.00090

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.5080	.02801	.00207	.01090	2.6820
Stddev	.0039	.00017	.00146	.00009	.0075
%RSD	.25590	.61574	70.383	.82371	.27867

#1	1.5107	.02813	.00104	.01083	2.6767
#2	1.5052	.02789	.00310	.01096	2.6873

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4123.8	7014.7	80897.	10506.
Stddev	2.2	3.2	209.	42.
%RSD	.05304	.04572	.25888	.40401

#1	4125.4	7016.9	81046.	10476.
#2	4122.3	7012.4	80749.	10536.

Sample Name: 480-45435-F-1-A Acquired: 9/12/2013 0:12:49 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0064	.07835	.02282	8.3438	.69007	.00000	102.85	.00015	.01947
Stddev	.00066	.00384	.00097	.0311	.00042	.00005	.36	.00010	.00017
%RSD	102.42	4.9024	4.2526	.37255	.06153	6897.1	.35196	69.250	.89440

#1	-0.0111	.07564	.02350	8.3658	.68977	.00004	102.60	.00008	.01934
#2	-0.0018	.08107	.02213	8.3218	.69037	-0.0004	103.11	.00022	.01959

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05699	.00520	1.3910	323.42	91.806	.76006	87.297	.41408	.44693
Stddev	.00046	.00016	.00069	.27	1.496	.00215	.083	.00010	.00169
%RSD	.80242	3.1471	.49286	.08400	1.6297	.28301	.09558	.02311	.37898

#1	.05666	.00532	1.3861	323.23	92.864	.75854	87.356	.41402	.44813
#2	.05731	.00509	1.3958	323.61	90.748	.76158	87.238	.41415	.44574

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02054	1058.7	.13113	F -0.00564	F 21.36	.00637	-.00045	13.489	.00445
Stddev	.00001	2.0	.00032	.00212	.04	.00176	.00057	.048	.00003
%RSD	.05740	.19019	.24024	37.548	.1713	27.628	127.91	.35531	.66676

#1	.02053	1057.3	.13091	-0.0714	21.39	.00513	-.00085	13.455	.00447
#2	.02055	1060.1	.13135	-0.0414	21.33	.00762	-.00004	13.523	.00443

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				120.00	10.00				
Low Limit				-0.00500	-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.7183	.00746	-.00179	.00576	.21151
Stddev	.0029	.00001	.00258	.00020	.00189
%RSD	.17042	.18418	144.15	3.5572	.89320

#1	1.7162	.00745	.00003	.00591	.21285
#2	1.7204	.00747	-.00361	.00562	.21018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3675.4	6742.3	75090.	10425.
Stddev	3.7	14.7	352.	36.
%RSD	.10045	.21752	.46935	.34679

#1	3672.8	6732.0	74841.	10451.
#2	3678.0	6752.7	75339.	10400.

Sample Name: 480-45433-A-1-A Acquired: 9/12/2013 0:15:51 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00024	.08174	.15374	.23782	.03326	-0.00003	188.49	.00024	.00094
Stddev	.00057	.01420	.00256	.00116	.00002	.00005	.21	.00006	.00004
%RSD	234.90	17.372	1.6636	.48573	.07283	144.19	.11382	26.119	4.3123

#1	-0.00016	.09178	.15555	.23864	.03328	.00000	188.64	.00029	.00096
#2	.00065	.07170	.15194	.23701	.03324	-0.00007	188.34	.00020	.00091

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00095	.00079	15.483	3.9855	4.0762	.06265	121.01	.06510	.06510
Stddev	.00033	.00005	.009	.0369	.0302	.00035	.01	.00012	.00020
%RSD	34.776	6.8693	.05743	.92546	.74036	.55483	.01055	.18974	.31407

#1	.00118	.00075	15.489	4.0116	4.0548	.06290	121.01	.06519	.06496
#2	.00071	.00083	15.476	3.9594	4.0975	.06241	121.00	.06501	.06525

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00985	29.769	.00184	-0.00350	F 156.1	-0.00115	.00035	11.478	-0.00037
Stddev	.00012	.082	.00007	.00082	.1	.00228	.00150	.009	.00019
%RSD	1.2588	.27602	3.7963	23.464	.0548	198.46	422.02	.08061	51.199

#1	.00994	29.711	.00189	-0.00292	156.1	.00046	-0.00070	11.471	-0.00051
#2	.00976	29.827	.00179	-0.00408	156.0	-0.00276	.00141	11.484	-0.00024

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.82567	.00165	-0.00326	-0.00018	.00478
Stddev	.00077	.00047	.00051	.00019	.00019
%RSD	.09375	28.377	15.652	102.72	3.9702

#1	.82512	.00199	-0.00362	-0.00005	.00492
#2	.82622	.00132	-0.00290	-0.00032	.00465

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4203.5	7087.2	81689.	10379.
Stddev	7.6	12.4	1.	4.
%RSD	.18122	.17455	.00087	.04289

#1	4198.1	7078.4	81689.	10376.
#2	4208.9	7095.9	81688.	10382.

Sample Name: 480-45433-A-2-A Acquired: 9/12/2013 0:18:43 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00052	.09819	.00180	.20858	.02667	-.00006	125.86	.00041	-.00014
Stddev	.00084	.00554	.00119	.00078	.00008	.00003	.04	.00002	.00016
%RSD	162.17	5.6413	66.266	.37485	.29055	44.746	.03096	4.2550	115.79

#1	.00111	.10210	.00096	.20913	.02661	-.00008	125.83	.00043	-.00002
#2	-.00008	.09427	.00265	.20802	.02672	-.00004	125.89	.00040	-.00025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00121	.00181	1.7040	3.5540	4.1752	.03745	82.116	.02284	.02217
Stddev	.00015	.00005	.0052	.0358	.0244	.00036	.012	.00003	.00030
%RSD	12.449	2.6514	.30394	1.0073	.58544	.97341	.01443	.11527	1.3554

#1	.00132	.00178	1.7077	3.5793	4.1925	.03719	82.124	.02285	.02195
#2	.00111	.00184	1.7004	3.5287	4.1579	.03771	82.108	.02282	.02238

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00572	27.821	.00004	-.00476	F 90.80	-.00069	-.00220	11.622	-.00019
Stddev	.00008	.036	.00034	.00059	.19	.00123	.00039	.009	.00030
%RSD	1.4795	.12905	810.65	12.469	.2039	177.37	17.468	.07881	159.07

#1	.00566	27.796	.00028	-.00434	90.67	.00018	-.00193	11.615	.00002
#2	.00578	27.846	-.00020	-.00518	90.93	-.00156	-.00248	11.628	-.00039

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.84893	.00158	-.00352	-.00006	.00323
Stddev	.00044	.00015	.00235	.00021	.00092
%RSD	.05138	9.2218	66.883	385.93	28.514

#1	.84862	.00147	-.00186	.00010	.00258
#2	.84924	.00168	-.00518	-.00021	.00388

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4305.7	7181.4	82916.	10408.
Stddev	3.8	.3	72.	17.
%RSD	.08839	.00424	.08669	.16481

#1	4303.1	7181.2	82967.	10396.
#2	4308.4	7181.6	82865.	10420.

Sample Name: 480-45433-A-3-A Acquired: 9/12/2013 0:21:29 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00029	16.896	.02098	.18740	.08194	.00094	368.47	.00443	.01786
Stddev	.00002	.017	.00098	.00004	.00006	.00000	4.72	.00004	.00009
%RSD	5.4665	.10103	4.6758	.01889	.07160	.10216	1.2806	.85195	.53154

#1	-.00030	16.884	.02029	.18738	.08198	.00094	365.13	.00440	.01793
#2	-.00028	16.909	.02168	.18743	.08189	.00095	371.80	.00445	.01779

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04095	.04634	40.295	12.159	16.777	.08071	237.59	1.7174	1.7733
Stddev	.00005	.00040	.063	.018	.095	.00048	.64	.0004	.0009
%RSD	.12208	.85240	.15511	.14544	.56871	.59391	.27071	.02140	.05158

#1	.04092	.04606	40.251	12.172	16.845	.08037	237.14	1.7171	1.7740
#2	.04099	.04662	40.340	12.147	16.710	.08105	238.05	1.7176	1.7727

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05137	42.651	.03906	.01184	F 135.8	-.00073	.00041	41.153	.00260
Stddev	.00009	.046	.00016	.00281	.3	.00138	.00447	.012	.00105
%RSD	.17159	.10817	.41232	23.763	.2278	190.28	1080.5	.02932	40.250

#1	.05131	42.684	.03917	.00985	135.5	-.00170	-.00275	41.144	.00186
#2	.05143	42.619	.03894	.01383	136.0	.00025	.00357	41.161	.00335

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.55101	.33860	-.00178	.03646	.12044
Stddev	.00035	.00171	.00109	.00027	.00014
%RSD	.06331	.50599	61.533	.72807	.11682

#1	.55125	.33981	-.00255	.03627	.12054
#2	.55076	.33738	-.00101	.03665	.12034

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3921.4	6959.9	79713.	10331.
Stddev	.5	10.8	234.	37.
%RSD	.01176	.15580	.29322	.35755

#1	3921.7	6967.6	79879.	10357.
#2	3921.1	6952.3	79548.	10305.

Sample Name: 480-45433-A-4-A Acquired: 9/12/2013 0:24:31 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00034	.18544	.00051	.17338	.02409	-.00004	170.16	.00051	.00064
Stddev	.00028	.00222	.00049	.00045	.00014	.00004	.27	.00004	.00015
%RSD	81.541	1.1990	95.342	.25667	.59571	87.012	.15624	8.5753	22.936

#1	.00054	.18701	.00085	.17370	.02399	-.00007	169.97	.00054	.00053
#2	.00015	.18387	.00017	.17307	.02420	-.00002	170.35	.00048	.00074

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00139	.00124	.26179	5.8467	7.7906	.07149	114.83	.05666	.05788
Stddev	.00012	.00003	.00317	.0415	.0483	.00103	1.03	.00051	.00013
%RSD	8.8617	2.6392	1.2103	.71041	.62037	1.4362	.90035	.89874	.23040

#1	.00130	.00126	.25955	5.8173	7.7564	.07222	114.10	.05630	.05778
#2	.00147	.00121	.26403	5.8760	7.8248	.07077	115.56	.05702	.05797

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01266	63.274	.00354	-.00251	F 176.5	-.00136	-.00144	7.3999	-.00044
Stddev	.00024	.173	.00061	.00035	.4	.00065	.00142	.0294	.00012
%RSD	1.9101	.27271	17.265	13.753	.1996	47.782	98.491	.39767	27.853

#1	.01249	63.152	.00311	-.00227	176.7	-.00183	-.00244	7.3791	-.00035
#2	.01283	63.396	.00397	-.00276	176.2	-.00090	-.00044	7.4207	-.00053

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.78759	.00510	-.00209	.00003	.00184
Stddev	.00216	.00089	.00127	.00036	.00017
%RSD	.27447	17.385	60.738	1177.0	9.3568

#1	.78606	.00572	-.00119	-.00022	.00172
#2	.78911	.00447	-.00298	.00028	.00196

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4171.6	7048.5	81421.	10501.
Stddev	3.6	3.7	532.	12.
%RSD	.08544	.05208	.65309	.11525

#1	4174.1	7051.0	81797.	10509.
#2	4169.1	7045.9	81045.	10492.

Sample Name: CCV Acquired: 9/12/2013 0:27:30 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50187	25.029	.49813	.48368	.49953	.50173	24.832	.48173	.48924	.49764	.49391	23.948
Stddev	.00251	.067	.00370	.00109	.00060	.00026	.088	.00176	.00043	.00036	.00247	.066
%RSD	.50006	.26643	.74251	.22499	.11994	.05168	.35380	.36485	.08808	.07207	.50015	.27471

#1	.50009	24.981	.49552	.48291	.49910	.50191	24.770	.48048	.48893	.49739	.49216	23.901
#2	.50364	25.076	.50075	.48445	.49995	.50155	24.894	.48297	.48954	.49790	.49565	23.994

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.693	24.771	.48817	23.735	.49843	.48509	.48235	24.040	.49302	.49571	24.92	.50789
Stddev	.010	.069	.00178	.012	.00008	.00057	.00233	.055	.00009	.00129	.11	.00328
%RSD	.04007	.27975	.36538	.05152	.01682	.11852	.48279	.22833	.01764	.26105	.4410	.64588

#1	24.686	24.820	.48691	23.744	.49849	.48549	.48070	24.001	.49296	.49662	24.84	.50557
#2	24.700	24.722	.48943	23.727	.49837	.48468	.48399	24.079	.49308	.49479	24.99	.51021

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48753	24.804	.48743	.49241	.47873	.49289	.48656	.48685
Stddev	.00314	.031	.00143	.00034	.00068	.00021	.00125	.00100
%RSD	.64347	.12465	.29403	.06824	.14104	.04260	.25594	.20593

#1	.48531	24.782	.48641	.49217	.47825	.49303	.48568	.48615
#2	.48975	24.826	.48844	.49265	.47921	.49274	.48744	.48756

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4541.6	7610.8	85790.	10438.
Stddev	5.6	21.5	210.	47.
%RSD	.12351	.28211	.24479	.45202
#1	4545.6	7626.0	85939.	10471.
#2	4537.6	7595.6	85642.	10404.

Sample Name: CCB Acquired: 9/12/2013 0:30:17 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	.02540	-.00174	.00187	.00008	.00009	.01752	.00018	.00010	.00028	-.00059	.00126
Stddev	.00020	.00732	.00064	.00043	.00002	.00005	.00271	.00006	.00009	.00028	.00018	.00250
%RSD	159.99	28.806	36.446	22.862	18.419	54.346	15.492	31.294	96.660	99.903	30.663	197.53

#1	.00027	.03057	-.00129	.00218	.00007	.00013	.01944	.00023	.00003	.00008	-.00072	-.00050
#2	-.00002	.02022	-.00219	.00157	.00010	.00006	.01560	.00014	.00016	.00048	-.00046	.00303

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10312	.00749	-.00089	.01306	.00016	.00053	.00012	.02226	-.00015	-.00043	F .0286	-.00041
Stddev	.02087	.00008	.00047	.00060	.00001	.00008	.00003	.00525	.00007	.00034	.0015	.00017
%RSD	20.234	1.1267	53.339	4.5848	3.1827	16.120	24.783	23.565	49.315	80.371	5.159	42.320

#1	.08837	.00743	-.00122	.01263	.00016	.00059	.00010	.02597	-.00020	-.00018	.0296	-.00054
#2	.11788	.00755	-.00055	.01348	.00015	.00047	.00015	.01855	-.00010	-.00067	.0275	-.00029

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00192	.02517	-.00001	.00028	.00043	-.00204	.00024	-.00085
Stddev	.00146	.00281	.00041	.00007	.00017	.00071	.00006	.00003
%RSD	75.758	11.162	4594.9	24.993	39.662	34.939	26.719	3.0602

#1	-.00295	.02319	.00028	.00033	.00055	-.00254	.00029	-.00083
#2	-.00089	.02716	-.00030	.00023	.00031	-.00153	.00020	-.00086

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4907.3	7692.9	88663.	10559.
Stddev	.7	6.7	351.	53.
%RSD	.01368	.08699	.39595	.49947
#1	4907.7	7697.6	88912.	10596.
#2	4906.8	7688.2	88415.	10522.

Sample Name: 480-45433-A-5-A Acquired: 9/12/2013 0:33:10 Type: Unk
 Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0050	1.3510	.00880	.15077	.02975	-0.0002	341.26	.00060	.00603
Stddev	.00038	.0304	.00411	.00037	.00006	.00003	.13	.00010	.00016
%RSD	75.357	2.2512	46.655	.24362	.18495	162.52	.03836	16.209	2.6704

#1	-0.00077	1.3295	.00590	.15103	.02971	-0.00003	341.16	.00053	.00615
#2	-0.00024	1.3725	.01171	.15051	.02979	.00000	341.35	.00067	.00592

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00277	.00304	7.7250	8.2585	14.806	.20619	293.15	.28356	.30076
Stddev	.00020	.00012	.00057	.0505	.133	.00025	1.03	.00024	.00095
%RSD	7.3714	4.0710	.07379	.61106	.90000	.11986	.35122	.08468	.31662

#1	.00291	.00313	7.7210	8.2228	14.900	.20602	292.42	.28339	.30009
#2	.00263	.00295	7.7290	8.2942	14.712	.20637	293.88	.28373	.30144

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.04256	538.50	.00989	F -.00502	F 692.3	-0.00175	.00093	16.735	-0.00055
Stddev	.00006	.22	.00057	.00056	.2	.00240	.00057	.039	.00019
%RSD	.14846	.04096	5.7519	11.147	.0242	136.94	60.912	.23511	34.723

#1	.04260	538.34	.00949	-0.00542	692.1	-0.00006	.00133	16.707	-0.00069
#2	.04251	538.65	.01029	-0.00463	692.4	-0.00345	.00053	16.763	-0.00042

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				120.00	10.00				
Low Limit				-0.00500	-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.60551	.03597	-0.00215	.00216	.00528
Stddev	.00136	.00318	.00025	.00007	.00044
%RSD	.22408	8.8300	11.608	3.2422	8.4195

#1	.60455	.03372	-0.00198	.00211	.00497
#2	.60647	.03821	-0.00233	.00221	.00560

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3700.9	6616.6	75642.	10217.
Stddev	4.7	6.2	8.	16.
%RSD	.12828	.09305	.01095	.15477

#1	3697.6	6612.2	75637.	10206.
#2	3704.3	6620.9	75648.	10228.

Sample Name: 480-45433-A-6-A Acquired: 9/12/2013 0:36:19 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00071	1.5092	.00704	.13614	.03071	.00003	204.82	.00074	.00493
Stddev	.00010	.0193	.00107	.00070	.00003	.00000	2.30	.00002	.00012
%RSD	13.527	1.2807	15.156	.51230	.09694	9.0163	1.1230	2.7080	2.3761

#1	.00078	1.4956	.00780	.13663	.03069	.00003	206.44	.00076	.00501
#2	.00064	1.5229	.00629	.13565	.03073	.00003	203.19	.00073	.00484

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00403	.00550	3.8461	8.0383	13.028	.19241	263.50	1.6293	1.6892
Stddev	.00006	.00001	.0142	.0100	.154	.00060	.11	.0008	.0180
%RSD	1.4127	.20768	.36993	.12428	1.1819	.31095	.04063	.05209	1.0625

#1	.00408	.00550	3.8562	8.0453	13.137	.19283	263.57	1.6299	1.6765
#2	.00399	.00551	3.8361	8.0312	12.920	.19199	263.42	1.6287	1.7019

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.14487	292.18	.01072	-.00314	F 426.2	-.00095	.00211	16.092	-.00028
Stddev	.00003	.24	.00024	.00092	.2	.00119	.00060	.088	.00052
%RSD	.01894	.08196	2.2252	29.341	.0408	125.02	28.314	.54413	186.07

#1	.14485	292.01	.01055	-.00249	426.4	-.00011	.00169	16.154	.00009
#2	.14489	292.35	.01089	-.00379	426.1	-.00179	.00254	16.030	-.00065

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.47313	.05004	-.00048	.00303	.01351
Stddev	.00213	.00979	.00224	.00004	.00019
%RSD	.45055	19.569	470.29	1.2029	1.3998

#1	.47464	.05696	.00111	.00306	.01338
#2	.47162	.04311	-.00206	.00300	.01364

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3893.3	6805.0	77740.	10261.
Stddev	1.4	12.7	157.	102.
%RSD	.03596	.18691	.20249	.99136
#1	3892.3	6796.0	77851.	10189.
#2	3894.3	6814.0	77629.	10333.

Sample Name: 480-45433-A-7-A Acquired: 9/12/2013 0:39:29 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00019	.10557	.01116	.06428	.04504	-.00008	180.89	.00041	.00161
Stddev	.00209	.00219	.00052	.00038	.00014	.00001	.32	.00001	.00017
%RSD	1097.8	2.0703	4.6723	.58600	.31660	9.2177	.17699	2.3374	10.509

#1	-.00129	.10402	.01153	.06402	.04493	-.00007	180.66	.00041	.00149
#2	.00167	.10711	.01080	.06455	.04514	-.00008	181.12	.00040	.00172

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00108	.00124	7.8702	2.7743	3.7227	.02863	105.89	.13492	.13469
Stddev	.00030	.00026	.0180	.0100	.0145	.00081	.01	.00006	.00024
%RSD	28.069	21.381	.22826	.36156	.38931	2.8161	.00690	.04431	.18097

#1	.00087	.00142	7.8575	2.7672	3.7125	.02806	105.89	.13488	.13451
#2	.00129	.00105	7.8829	2.7814	3.7330	.02920	105.90	.13497	.13486

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00371	25.456	.00170	-.00288	F 117.3	-.00092	.00064	8.0734	-.00034
Stddev	.00005	.014	.00029	.00031	.1	.00052	.00221	.0415	.00020
%RSD	1.2902	.05633	16.746	10.641	.0936	56.536	343.29	.51347	57.483

#1	.00374	25.466	.00190	-.00266	117.4	-.00129	.00221	8.0441	-.00020
#2	.00368	25.446	.00150	-.00309	117.2	-.00055	-.00092	8.1027	-.00048

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.25809	.00306	-.00106	.00026	.00262
Stddev	.00091	.00003	.00011	.00017	.00052
%RSD	.35227	1.0135	10.126	66.458	19.923

#1	.25745	.00303	-.00099	.00014	.00225
#2	.25874	.00308	-.00114	.00038	.00299

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4207.9	7072.6	81255.	10262.
Stddev	.5	9.4	100.	2.
%RSD	.01198	.13288	.12267	.01760

#1	4208.3	7079.3	81326.	10263.
#2	4207.6	7066.0	81185.	10261.

Sample Name: 480-45433-A-8-A Acquired: 9/12/2013 0:42:21 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0030	2.9753	.02729	.23508	.02449	.00003	291.10	.00048	.00196
Stddev	.00012	.0299	.00066	.00029	.00001	.00006	1.05	.00005	.00019
%RSD	39.178	1.0064	2.4100	.12131	.02368	164.55	.36188	9.9125	9.4858

#1	-0.00039	2.9965	.02683	.23488	.02448	.00007	291.85	.00045	.00209
#2	-0.00022	2.9541	.02776	.23528	.02449	-0.00001	290.36	.00051	.00183

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00551	.00535	9.5463	6.4573	9.1377	.07694	162.28	.18080	.18202
Stddev	.00026	.00001	.0250	.0121	.1093	.00038	.25	.00032	.00144
%RSD	4.6760	.24940	.26216	.18742	1.1957	.48855	.15340	.17555	.78885

#1	.00533	.00534	9.5640	6.4658	9.2150	.07721	162.46	.18103	.18304
#2	.00570	.00536	9.5286	6.4487	9.0604	.07668	162.11	.18058	.18101

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01923	39.159	.00504	-0.00387	F 284.3	-0.00153	-0.00255	16.990	-0.00065
Stddev	.00021	.047	.00044	.00097	.2	.00078	.00019	.015	.00015
%RSD	1.0775	.12024	8.7892	25.167	.0633	50.768	7.5430	.08930	23.771

#1	.01909	39.125	.00473	-0.00318	284.4	-0.00098	-0.00269	17.001	-0.00054
#2	.01938	39.192	.00535	-0.00455	284.1	-0.00208	-0.00242	16.979	-0.00075

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.1038	.08737	-0.00483	.00483	.01179
Stddev	.0010	.00083	.00184	.00005	.00010
%RSD	.09553	.95268	38.156	1.0678	.85422

#1	1.1045	.08678	-0.00613	.00486	.01172
#2	1.1031	.08796	-0.00353	.00479	.01186

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4062.5	6956.0	80526.	10301.
Stddev	8.6	6.8	100.	30.
%RSD	.21232	.09806	.12360	.28802

#1	4056.4	6951.2	80597.	10280.
#2	4068.6	6960.8	80456.	10322.

Sample Name: 480-45433-A-9-A Acquired: 9/12/2013 0:45:18 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00007	.82595	.01627	.15236	.06469	-.00000	117.23	.00023	.00240
Stddev	.00001	.00059	.00073	.00089	.00017	.00010	.22	.00008	.00016
%RSD	11.033	.07151	4.4913	.58728	.26234	8816.6	.19152	34.969	6.7317

#1	.00006	.82637	.01575	.15172	.06481	-.00007	117.39	.00029	.00251
#2	.00007	.82553	.01679	.15299	.06457	.00007	117.07	.00017	.00228

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00158	.00180	4.3292	4.0819	5.2017	.02501	56.843	.16819	.16699
Stddev	.00004	.00033	.0138	.0121	.0317	.00017	.042	.00035	.00057
%RSD	2.5118	18.222	.31797	.29598	.60884	.66789	.07326	.20932	.34245

#1	.00161	.00204	4.3389	4.0904	5.2241	.02513	56.813	.16844	.16658
#2	.00155	.00157	4.3194	4.0733	5.1793	.02489	56.872	.16794	.16739

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01565	37.280	.00333	-.00370	F 66.64	-.00155	-.00243	8.4182	-.00023
Stddev	.00034	.059	.00009	.00093	.14	.00040	.00161	.0252	.00021
%RSD	2.1571	.15695	2.5777	25.104	.2141	25.833	66.413	.29896	90.378

#1	.01541	37.239	.00339	-.00436	66.54	-.00183	-.00129	8.4004	-.00038
#2	.01589	37.321	.00327	-.00305	66.74	-.00127	-.00357	8.4360	-.00008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.55839	.01161	-.00174	.00062	.00427
Stddev	.00084	.00086	.00195	.00015	.00032
%RSD	.15087	7.3823	111.96	23.350	7.6021

#1	.55779	.01101	-.00311	.00073	.00450
#2	.55898	.01222	-.00036	.00052	.00404

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4346.4	7252.7	83232.	10504.
Stddev	2.0	6.0	100.	32.
%RSD	.04654	.08233	.11977	.30245
#1	4347.8	7257.0	83161.	10481.
#2	4344.9	7248.5	83302.	10526.

Sample Name: 480-45433-A-10-A Acquired: 9/12/2013 0:48:04 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0015	.4905	.53779	.08020	.10113	.00030	163.20	-0.0016	.00224
Stddev	.00067	.00997	.00075	.00022	.00042	.00008	.52	.00008	.00000
%RSD	448.11	1.9969	.13965	.27448	.41703	27.201	.31776	49.231	.21479

#1	.00032	.50610	.53832	.08036	.10143	.00024	162.83	-0.0010	.00224
#2	-.00062	.49200	.53726	.08005	.10083	.00036	163.57	-0.0021	.00224

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00028	.00460	143.16	2.8108	3.6470	.03561	91.423	.10003	.09905
Stddev	.00009	.00012	.28	.0370	.0006	.00015	.221	.00009	.00020
%RSD	33.414	2.5770	.19607	1.3172	.01554	.42363	.24189	.09297	.20422

#1	.00021	.00468	142.96	2.8370	3.6466	.03550	91.579	.10010	.09920
#2	.00035	.00452	143.36	2.7846	3.6474	.03571	91.267	.09997	.09891

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00852	13.310	.00221	-0.00160	F 90.61	-0.00207	-0.00173	21.329	.00124
Stddev	.00001	.034	.00023	.00083	.15	.00204	.00063	.052	.00038
%RSD	.08554	.25175	10.343	51.953	.1686	98.277	36.785	.24543	30.503

#1	.00852	13.286	.00205	-0.00101	90.72	-0.00063	-0.00128	21.292	.00097
#2	.00853	13.334	.00238	-0.00219	90.50	-0.00351	-0.00217	21.366	.00151

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.40212	.01276	-0.00242	.00161	.00808
Stddev	.00114	.00025	.00005	.00011	.00029
%RSD	.28355	1.9578	2.0284	6.9984	3.6170

#1	.40131	.01294	-0.00245	.00169	.00828
#2	.40292	.01258	-0.00238	.00153	.00787

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4258.3	7219.2	82875.	10433.
Stddev	1.7	3.3	286.	12.
%RSD	.03952	.04544	.34514	.11500

#1	4259.5	7216.8	82673.	10442.
#2	4257.1	7221.5	83078.	10425.

Sample Name: 480-45353-S-1-B Acquired: 9/12/2013 0:50:51 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00104	.30642	.00218	.50495	^ *****	-0.0023	F 1414.8	F -.06179	^ *****
Stddev	.00062	.00052	.00222	.00250	----	.00012	3.7	.00056	----
%RSD	59.931	.16839	102.05	.49471	----	51.341	.26276	.89989	----

#1	.00060	.30678	.00061	.50672	^ -----	-.00015	1417.4	-.06140	^ -----
#2	.00148	.30605	.00375	.50319	^ -----	-.00031	1412.1	-.06219	^ -----

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass
High Limit							1000.0	5.0000	
Low Limit							-.50000	-.00100	

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00346	.00925	11.154	18.768	40.790	12.081	109.70	.46195	.57591
Stddev	.00023	.00052	.013	.037	.098	.002	.30	.00182	.00098
%RSD	6.7283	5.6356	.11981	.19606	.24097	.01462	.27109	.39400	.17060

#1	.00330	.00889	11.163	18.795	40.720	12.083	109.49	.46067	.57521
#2	.00363	.00962	11.144	18.742	40.859	12.080	109.91	.46324	.57660

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00075	4866.3	.00316	-.00214	.1192	-0.00015	.00018	1.4772	-.00013
Stddev	.00012	22.1	.00147	.00164	.0027	.00136	.00067	.0073	.00098
%RSD	15.479	.45379	46.573	76.912	2.237	878.98	378.98	.49419	779.56

#1	.00083	4882.0	.00420	-.00098	.1173	.00081	-.00030	1.4824	-.00082
#2	.00066	4850.7	.00212	-.00330	.1211	-.00111	.00065	1.4720	.00057

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	.00850	k -.00701	-.00004	.01124
Stddev	----	.00057	.00245	.00012	.00019
%RSD	----	6.7158	34.939	284.92	1.6652

#1	^ -----	.00810	k -.00528	.00004	.01111
#2	^ -----	.00890	k -.00874	-.00013	.01137

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2550.0	5186.9	59710.	9488.5
Stddev	3.7	12.4	73.	45.2
%RSD	.14703	.23819	.12211	.47658

#1	2552.6	5178.2	59762.	9456.6
#2	2547.3	5195.7	59659.	9520.5

Sample Name: 480-45445-D-1-A Acquired: 9/12/2013 0:54:04 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00054	.04615	.00077	.15946	.37268	-0.00006	230.79	.00018	.00356
Stddev	.00085	.01714	.00117	.00040	.00878	.00001	.82	.00005	.00002
%RSD	156.69	37.140	151.09	.25308	2.3561	11.637	.35724	29.420	.61694

#1	.00114	.03403	-.00005	.15974	.37889	-.00007	231.38	.00014	.00358
#2	-.00006	.05827	.00160	.15917	.36647	-.00006	230.21	.00021	.00355

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00112	.00113	2.9045	6.2571	8.0897	.02810	44.760	.46325	.46110
Stddev	.00016	.00027	.0046	.0078	.0164	.00069	.036	.00113	.00059
%RSD	13.975	24.254	.15778	.12486	.20215	2.4537	.08049	.24367	.12869

#1	.00123	.00094	2.9077	6.2516	8.0782	.02858	44.734	.46245	.46069
#2	.00101	.00132	2.9012	6.2626	8.1013	.02761	44.785	.46404	.46152

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00025	24.828	.00001	F -.00599	F 62.20	-0.00132	.00017	14.697	.00013
Stddev	.00037	.006	.00014	.00118	.10	.00084	.00012	.074	.00027
%RSD	145.93	.02446	1931.6	19.671	.1564	64.141	69.333	.50060	204.21

#1	-.00001	24.824	.00011	-.00516	62.27	-.00191	.00009	14.645	-.00006
#2	.00051	24.833	-.00009	-.00682	62.13	-.00072	.00025	14.749	.00032

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				120.00	10.00				
Low Limit				-.00500	-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.3433	.00142	-.00239	.00030	.00229
Stddev	.0069	.00021	.00371	.00017	.00002
%RSD	.29302	15.044	154.82	56.835	.82535

#1	2.3482	.00127	.00023	.00018	.00230
#2	2.3385	.00157	-.00501	.00042	.00228

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4258.4	7157.4	81822.	10304.
Stddev	3.4	1.0	60.	22.
%RSD	.07939	.01382	.07374	.21280

#1	4256.0	7156.7	81865.	10320.
#2	4260.8	7158.1	81780.	10289.

Sample Name: MB 480-138333/1-A Acquired: 9/12/2013 0:57:01 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0010	.02401	-0.0152	.00357	F .09664	.00007	.15641	-0.00000	.00001
Stddev	.00020	.01521	.00024	.00009	.00183	.00007	.00728	.00001	.00001
%RSD	200.40	63.339	15.937	2.4814	1.8979	96.098	4.6553	249.10	54.044

#1	.00004	.03477	-.00170	.00364	.09794	.00002	.16156	-.00001	.00001
#2	-.00024	.01326	-.00135	.00351	.09534	.00012	.15126	.00000	.00002

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					.00048				
Low Limit					-.00300				

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00033	-0.0087	.00378	.16019	.00536	.00084	.01660	.00008	F .00037
Stddev	.00026	.00004	.00026	.00581	.00002	.00016	.00144	.00007	.00010
%RSD	77.397	4.3093	6.8466	3.6274	.45396	19.135	8.6856	84.357	26.619

#1	.00051	-.00090	.00359	.15608	.00534	.00096	.01558	.00003	.00030
#2	.00015	-.00085	.00396	.16430	.00537	.00073	.01762	.00013	.00044

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit									.00035
Low Limit									-.00300

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	.43413	-0.00029	-0.00037	F .0268	-0.00120	-0.00221	-0.00014	-0.00040
Stddev	.00010	.00276	.00008	.00132	.0018	.00128	.00076	.00024	.00029
%RSD	82.721	.63530	27.367	356.42	6.668	106.66	34.346	167.15	72.377

#1	.00018	.43608	-.00035	.00056	.0281	-.00211	-.00167	-.00031	-.00061
#2	.00005	.43218	-.00023	-.00130	.0255	-.00030	-.00275	.00003	-.00020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass
High Limit					.0022				
Low Limit					-.0040				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F .03468	.00018	-0.00084	-0.00011	.00013
Stddev	.00096	.00018	.00063	.00014	.00046
%RSD	2.7588	97.398	75.577	129.95	346.34

#1	.03535	.00031	-.00128	-.00001	.00046
#2	.03400	.00006	-.00039	-.00021	-.00019

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	.00220				
Low Limit	-.00500				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4935.8	7776.5	89514.	10562.
Stddev	.1	.6	12.	1.
%RSD	.00137	.00791	.01296	.00956

#1	4935.8	7776.9	89506.	10562.
#2	4935.7	7776.1	89522.	10563.

Sample Name: LCS 480-138333/2-A Acquired: 9/12/2013 0:59:51 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05199	10.260	.21163	.20502	F .24861	.21660	10.454	.20643	.20742
Stddev	.00061	.019	.00052	.00071	.00038	.00013	.016	.00033	.00024
%RSD	1.1729	.18531	.24337	.34804	.15472	.06005	.15028	.16001	.11527

#1	.05156	10.246	.21127	.20451	.24888	.21670	10.443	.20619	.20725
#2	.05243	10.273	.21200	.20552	.24834	.21651	10.465	.20666	.20759

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					.23000				
Low Limit					.17000				

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21181	.20942	10.355	9.9684	10.191	.19987	10.528	.21148	.19950
Stddev	.00133	.00089	.007	.0512	.058	.00044	.054	.00036	.00082
%RSD	.62963	.42706	.06890	.51377	.56685	.22191	.50839	.17105	.41344

#1	.21087	.20879	10.360	10.005	10.232	.19956	10.490	.21122	.20008
#2	.21275	.21005	10.350	9.9322	10.151	.20018	10.566	.21173	.19892

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20986	9.8297	.20760	.20475	F .0203	.21073	.20732	10.058	.18891
Stddev	.00056	.0012	.00027	.00239	.0040	.00013	.00232	.002	.00083
%RSD	.26568	.01228	.13159	1.1665	19.94	.06152	1.1170	.02146	.43978

#1	.20946	9.8305	.20780	.20306	.0174	.21082	.20895	10.059	.18833
#2	.21025	9.8288	.20741	.20644	.0231	.21064	.20568	10.056	.18950

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					11.50				
Low Limit					8.500				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.21636	.19618	.21019	.20438	.20397
Stddev	.00144	.00026	.00273	.00112	.00069
%RSD	.66655	.13182	1.2966	.54882	.33691

#1	.21738	.19636	.21212	.20359	.20348
#2	.21534	.19600	.20826	.20518	.20445

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4713.0	7687.8	87717.	10517.
Stddev	2.5	5.0	362.	30.
%RSD	.05248	.06478	.41304	.28947

#1	4711.3	7691.3	87973.	10539.
#2	4714.8	7684.3	87461.	10496.

Sample Name: CCV Acquired: 9/12/2013 1:02:38 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48892	24.582	.49931	.48145	.51369	.50442	24.502	.48175	.48912	.49527	.48657	23.968
Stddev	.00099	.030	.00012	.00020	.00171	.00115	.110	.00060	.00111	.00022	.00033	.084
%RSD	.20347	.12242	.02438	.04179	.33357	.22852	.44799	.12482	.22616	.04416	.06713	.35067

#1	.48962	24.604	.49939	.48131	.51490	.50524	24.579	.48217	.48990	.49543	.48680	24.027
#2	.48821	24.561	.49922	.48160	.51248	.50361	24.424	.48132	.48834	.49512	.48634	23.908

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.480	25.114	.48560	23.960	.50344	.48274	.48239	23.848	.49889	.49336	25.15	.50975
Stddev	.119	.147	.00061	.005	.00022	.00094	.00009	.013	.00136	.00118	.06	.00226
%RSD	.48712	.58464	.12649	.02117	.04357	.19469	.01786	.05533	.27299	.23871	.2545	.44377

#1	24.564	25.218	.48516	23.956	.50328	.48340	.48246	23.858	.49986	.49420	25.11	.50815
#2	24.396	25.010	.48603	23.963	.50359	.48207	.48233	23.839	.49793	.49253	25.20	.51135

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48852	24.208	.48607	.49613	.47986	.50045	.47524	.48261
Stddev	.00197	.027	.00081	.00036	.00059	.00016	.00064	.00110
%RSD	.40230	.10961	.16742	.07198	.12371	.03210	.13494	.22690

#1	.48713	24.227	.48665	.49588	.48028	.50057	.47570	.48184
#2	.48991	24.189	.48549	.49639	.47944	.50034	.47479	.48339

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4555.1	7660.6	87257.	10553.
Stddev	4.1	2.4	50.	51.
%RSD	.09007	.03122	.05743	.48645
#1	4552.2	7658.9	87221.	10517.
#2	4558.0	7662.3	87292.	10589.

Sample Name: CCB Acquired: 9/12/2013 1:05:26 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00021	.01950	-.00175	.00056	F .00993	.00006	.01556	.00009	.00011	.00005	-.00102	.00185
Stddev	.00034	.00062	.00002	.00007	.00029	.00003	.00388	.00002	.00003	.00038	.00007	.00153
%RSD	160.70	3.1744	1.2683	13.040	2.9436	51.217	24.963	19.685	30.481	712.10	6.5079	82.906

#1	-.00003	.01994	-.00173	.00050	.01014	.00004	.01830	.00008	.00013	.00033	-.00107	.00076
#2	.00046	.01906	-.00176	.00061	.00973	.00009	.01281	.00010	.00009	-.00022	-.00098	.00293

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					.00200							
Low Limit					-.00200							

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.14143	.00563	-.00040	.00892	.00014	-.00020	.00028	.08937	-.00039	-.00057	F .0165	-.00041
Stddev	.00715	.00027	.00007	.00517	.00002	.00012	.00020	.00310	.00006	.00040	.0015	.00100
%RSD	5.0579	4.7812	17.489	57.933	13.830	59.994	73.021	3.4690	15.136	69.592	9.090	245.17

#1	.14649	.00582	-.00045	.01258	.00015	-.00028	.00042	.08717	-.00035	-.00086	.0176	.00030
#2	.13637	.00544	-.00035	.00527	.00012	-.00011	.00013	.09156	-.00044	-.00029	.0155	-.00112

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00178	.02320	-.00022	.00363	.00053	-.00141	.00018	-.00036
Stddev	.00253	.01499	.00007	.00013	.00007	.00191	.00039	.00023
%RSD	142.08	64.634	31.032	3.6264	13.916	134.99	220.72	63.225

#1	.00357	.01260	-.00026	.00372	.00047	-.00006	.00045	-.00020
#2	-.00001	.03380	-.00017	.00353	.00058	-.00276	-.00010	-.00052

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4938.4	7780.0	89489.	10474.
Stddev	1.9	5.6	239.	36.
%RSD	.03854	.07144	.26723	.34384
#1	4939.7	7776.0	89320.	10448.
#2	4937.0	7783.9	89658.	10499.

Sample Name: 480-45470-B-1-A Acquired: 9/12/2013 1:08:17 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00088	.03483	.00524	.02880	.13303	-0.0008	58.212	.00012	-0.0008
Stddev	.00056	.01513	.00288	.00007	.00008	.00003	.034	.00002	.00008
%RSD	63.910	43.425	54.974	.24920	.05791	37.241	.05915	15.337	108.32

#1	.00127	.02414	.00320	.02875	.13297	-0.0006	58.237	.00010	-.00013
#2	.00048	.04553	.00727	.02885	.13308	-0.0011	58.188	.00013	-.00002

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00063	.00234	.32324	.65878	.64111	.00498	12.578	.17584	.16711
Stddev	.00011	.00006	.00209	.03486	.00186	.00083	.018	.00042	.00043
%RSD	17.261	2.7212	.64594	5.2913	.29071	16.687	.13987	.24166	.25847

#1	.00055	.00239	.32176	.68343	.63979	.00439	12.591	.17554	.16741
#2	.00070	.00230	.32472	.63413	.64243	.00557	12.566	.17614	.16680

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00072	9.1895	-0.00023	-0.00116	F 16.07	-0.00042	-0.00206	5.7550	.00010
Stddev	.00009	.0109	.00016	.00036	.01	.00120	.00013	.0072	.00013
%RSD	12.014	.11833	66.906	31.555	.0791	283.94	6.2737	.12581	127.62

#1	.00066	9.1972	-0.00035	-0.00090	16.08	.00043	-.00215	5.7498	.00019
#2	.00078	9.1818	-0.00012	-0.00141	16.06	-.00127	-.00197	5.7601	.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.10955	.00055	-0.00207	.00003	.01150
Stddev	.00016	.00022	.00158	.00002	.00014
%RSD	.14298	39.518	76.064	56.413	1.2320

#1	.10967	.00071	-.00319	.00002	.01160
#2	.10944	.00040	-.00096	.00004	.01140

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4633.8	7540.3	87115.	10536.
Stddev	.1	3.9	112.	25.
%RSD	.00296	.05215	.12860	.24103

#1	4633.9	7537.5	87194.	10554.
#2	4633.7	7543.1	87036.	10518.

Sample Name: 480-45470-B-2-A Acquired: 9/12/2013 1:11:04 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0024	.02606	.00728	.02893	.13594	-0.0009	60.034	.00007	-0.0009
Stddev	.00070	.00707	.00082	.00030	.00014	.00005	.168	.00012	.00001
%RSD	286.89	27.112	11.222	1.0524	.10365	59.472	.28022	162.02	9.4900

#1	.00025	.03106	.00671	.02915	.13604	-0.00005	59.916	.00016	-0.00009
#2	-.00074	.02107	.00786	.02872	.13584	-0.00012	60.153	-.00001	-.00010

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00066	-0.0032	.31618	.69486	.65143	.00377	12.752	.17875	.17052
Stddev	.00037	.00010	.00367	.01131	.00907	.00006	.038	.00038	.00121
%RSD	55.319	32.131	1.1617	1.6272	1.3925	1.5225	.29649	.21288	.71161

#1	.00092	-0.00039	.31878	.70285	.64502	.00381	12.778	.17902	.17138
#2	.00040	-0.00024	.31359	.68686	.65784	.00373	12.725	.17849	.16966

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00082	9.1155	-0.00035	-0.00170	F 16.35	-0.00125	-0.00001	5.9342	-0.00038
Stddev	.00002	.0320	.00004	.00057	.03	.00119	.00235	.0039	.00045
%RSD	2.5369	.35079	10.688	33.466	.1837	95.023	23964.	.06500	119.75

#1	.00084	9.0929	-0.00032	-0.00130	16.32	-0.00041	.00165	5.9315	-0.00069
#2	.00081	9.1381	-0.00037	-0.00210	16.37	-0.00210	-0.00167	5.9369	-0.00006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.11185	.00061	-0.00339	.00017	.00063
Stddev	.00012	.00013	.00103	.00022	.00004
%RSD	.10423	21.853	30.352	130.60	5.7687

#1	.11193	.00052	-.00412	.00001	.00061
#2	.11177	.00071	-.00266	.00032	.00066

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4642.6	7545.4	86654.	10433.
Stddev	2.4	4.8	450.	31.
%RSD	.05216	.06300	.51982	.29244

#1	4640.9	7542.1	86335.	10455.
#2	4644.3	7548.8	86972.	10412.

Sample Name: 480-45470-B-2-A SD@5 Acquired: 9/12/2013 1:13:51 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00076	.05082	.00088	.00352	.01693	-0.00001	6.9853	-0.00001	.00001
Stddev	.00047	.01655	.00284	.00002	.00002	.00007	.0332	.00009	.00001
%RSD	61.308	32.559	320.78	.44285	.12081	1031.7	.47529	655.99	97.787

#1	.00110	.06252	-.00112	.00353	.01694	.00004	7.0087	.00005	.00002
#2	.00043	.03912	.00289	.00351	.01691	-0.00006	6.9618	-0.00008	.00000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00017	-0.00067	.03821	.20922	.06184	.00078	1.4907	.02125	.01996
Stddev	.00031	.00026	.00212	.00223	.00018	.00052	.0020	.00008	.00030
%RSD	188.83	38.660	5.5510	1.0666	.28503	66.494	.13373	.36133	1.5197

#1	-.00006	-.00049	.03971	.21080	.06196	.00114	1.4892	.02119	.02017
#2	.00039	-.00085	.03671	.20765	.06171	.00041	1.4921	.02130	.01975

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00001	1.0832	.00002	-0.00093	1.862	-0.00006	-0.00522	.67158	-0.00003
Stddev	.00005	.0073	.00006	.00010	.001	.00138	.00006	.01562	.00003
%RSD	362.19	.67725	357.55	11.177	.0707	2361.2	1.2305	2.3256	109.94

#1	-.00002	1.0884	.00006	-0.00086	1.863	.00092	-.00526	.68262	-.00006
#2	.00005	1.0780	-0.00002	-0.00100	1.861	-0.00103	-0.00517	.66053	-0.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.01336	.00045	-0.00115	.00023	-0.00028
Stddev	.00011	.00018	.00068	.00007	.00006
%RSD	.84284	38.880	59.787	30.990	20.340

#1	.01344	.00058	-0.00163	.00018	-0.00024
#2	.01329	.00033	-0.00066	.00028	-0.00033

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4910.6	7791.7	89630.	10579.
Stddev	2.4	1.6	244.	72.
%RSD	.04927	.01999	.27247	.67719
#1	4912.3	7790.6	89457.	10528.
#2	4908.9	7792.8	89803.	10629.

Sample Name: 480-45470-B-2-A PDS Acquired: 9/12/2013 1:16:40 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05191	10.269	.21680	.23162	.33186	.21653	68.114	.20037	.20286
Stddev	.00039	.060	.00102	.00071	.00051	.00050	.094	.00066	.00010
%RSD	.75665	.58317	.47106	.30504	.15235	.23081	.13746	.32875	.04850

#1	.05219	10.312	.21753	.23212	.33150	.21688	68.180	.20083	.20293
#2	.05163	10.227	.21608	.23112	.33222	.21618	68.048	.19990	.20279

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20274	.20365	10.395	10.598	12.048	.20920	22.656	.37704	.36584
Stddev	.00059	.00009	.005	.019	.005	.00046	.010	.00070	.00018
%RSD	.28981	.04406	.04517	.17591	.04145	.22200	.04451	.18483	.04937

#1	.20316	.20372	10.392	10.585	12.051	.20953	22.663	.37754	.36571
#2	.20233	.20359	10.399	10.611	12.044	.20887	22.649	.37655	.36597

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20060	18.603	.20286	.20208	F 15.88	.20573	.20466	15.921	.18730
Stddev	.00066	.071	.00030	.00137	.00	.00110	.00133	.012	.00036
%RSD	.32686	.38392	.14834	.68018	.0023	.53413	.64810	.07592	.19209

#1	.20106	18.653	.20307	.20111	15.88	.20495	.20372	15.929	.18705
#2	.20014	18.552	.20264	.20305	15.88	.20651	.20560	15.912	.18756

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.30718	.19216	.20749	.19993	.19483
Stddev	.00144	.00015	.00006	.00030	.00020
%RSD	.46888	.07666	.02831	.14784	.10263

#1	.30820	.19206	.20753	.19972	.19469
#2	.30616	.19227	.20744	.20014	.19497

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4515.1	7568.8	86474.	10506.
Stddev	.9	7.1	95.	4.
%RSD	.01901	.09419	.11015	.03469
#1	4515.7	7563.8	86407.	10503.
#2	4514.4	7573.8	86542.	10508.

Sample Name: 480-45470-B-2-B MS Acquired: 9/12/2013 1:19:26 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05197	10.303	.21254	.22962	.32824	.21192	68.227	.19935	.20134
Stddev	.00043	.010	.00376	.00045	.00040	.00066	.075	.00019	.00005
%RSD	.82966	.09325	1.7713	.19734	.12294	.31089	.10963	.09365	.02466

#1	.05166	10.296	.20988	.22994	.32852	.21145	68.174	.19948	.20130
#2	.05227	10.310	.21521	.22930	.32795	.21238	68.280	.19922	.20137

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20425	.20160	10.304	10.646	12.016	.20592	22.464	.37368	.35850
Stddev	.00031	.00040	.027	.030	.006	.00101	.035	.00054	.00075
%RSD	.15190	.19672	.26410	.27947	.05314	.49216	.15615	.14556	.20955

#1	.20447	.20188	10.285	10.625	12.021	.20664	22.439	.37330	.35903
#2	.20403	.20132	10.324	10.667	12.012	.20520	22.489	.37407	.35797

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20140	18.543	.20146	.19933	F 15.70	.20725	.20696	15.738	.19342
Stddev	.00012	.008	.00047	.00158	.04	.00140	.00148	.051	.00013
%RSD	.05803	.04212	.23203	.79303	.2519	.67681	.71651	.32283	.06879

#1	.20132	18.549	.20113	.19821	15.67	.20626	.20591	15.702	.19352
#2	.20149	18.538	.20180	.20045	15.73	.20825	.20801	15.774	.19333

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.30695	.18960	.20093	.19744	.19571
Stddev	.00012	.00018	.00024	.00018	.00010
%RSD	.04013	.09247	.12097	.09001	.05306

#1	.30686	.18972	.20111	.19731	.19564
#2	.30704	.18948	.20076	.19756	.19579

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4523.6	7589.1	86528.	10438.
Stddev	.1	7.5	106.	52.
%RSD	.00255	.09826	.12280	.49552

#1	4523.6	7594.4	86603.	10475.
#2	4523.7	7583.8	86453.	10402.

Sample Name: 480-45470-B-2-C MSD Acquired: 9/12/2013 1:22:12 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05202	10.315	.21313	.22812	.33203	.21107	69.464	.19849	.20048
Stddev	.00006	.011	.00470	.00043	.00007	.00024	.204	.00048	.00038
%RSD	.12256	.10391	2.2047	.18971	.01971	.11474	.29361	.24125	.18896

#1	.05198	10.307	.20981	.22782	.33207	.21090	69.319	.19815	.20021
#2	.05207	10.322	.21645	.22843	.33198	.21124	69.608	.19883	.20075

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20438	.20211	10.253	10.596	12.032	.20632	22.490	.37292	.36109
Stddev	.00020	.00088	.014	.038	.018	.00000	.052	.00044	.00035
%RSD	.10010	.43675	.13163	.36289	.15358	.00173	.23234	.11695	.09556

#1	.20423	.20274	10.243	10.569	12.019	.20632	22.527	.37322	.36134
#2	.20452	.20149	10.262	10.624	12.046	.20632	22.453	.37261	.36085

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20033	18.706	.19978	.19911	F 15.86	.20549	.19884	15.920	.19228
Stddev	.00038	.056	.00120	.00012	.00	.00204	.00320	.057	.00016
%RSD	.19041	.29837	.60000	.05840	.0059	.99443	1.6108	.36058	.08168

#1	.20060	18.667	.19893	.19919	15.86	.20404	.19658	15.880	.19217
#2	.20006	18.746	.20063	.19903	15.86	.20693	.20111	15.961	.19239

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.30878	.18821	.20073	.19747	.19511
Stddev	.00152	.00076	.00044	.00012	.00035
%RSD	.49183	.40398	.22010	.06141	.18193

#1	.30771	.18767	.20104	.19739	.19536
#2	.30986	.18874	.20041	.19756	.19486

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4524.0	7598.0	85995.	10396.
Stddev	3.4	1.1	157.	16.
%RSD	.07426	.01412	.18200	.15007

#1	4526.4	7597.2	85884.	10407.
#2	4521.6	7598.7	86106.	10385.

Sample Name: 480-45470-B-3-A Acquired: 9/12/2013 1:24:57 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00077	.02347	.00666	.02817	.12959	.00004	58.808	.00006	-.00015
Stddev	.00034	.03066	.00011	.00008	.00047	.00002	.184	.00012	.00000
%RSD	44.603	130.66	1.7219	.27679	.36523	47.994	.31248	195.22	.32116

#1	.00053	.00179	.00674	.02823	.12993	.00005	58.678	-.00002	-.00015
#2	.00101	.04515	.00658	.02812	.12926	.00002	58.938	.00015	-.00015

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00060	.00291	.32024	.68776	.64093	.00415	12.671	.17686	.16666
Stddev	.00004	.00039	.00006	.06040	.00000	.00023	.042	.00012	.00161
%RSD	6.1225	13.377	.02019	8.7819	.00034	5.6297	.32900	.06789	.96860

#1	.00062	.00264	.32029	.64505	.64093	.00399	12.642	.17677	.16780
#2	.00057	.00319	.32019	.73047	.64093	.00432	12.701	.17694	.16552

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00078	10.495	-.00018	-.00253	F 16.14	-.00015	-.00000	5.8025	-.00051
Stddev	.00014	.012	.00018	.00051	.02	.00137	.00077	.0011	.00007
%RSD	17.606	.11898	102.93	20.149	.1035	920.41	249440.	.01818	12.896

#1	.00069	10.486	-.00005	-.00289	16.13	-.00111	-.00054	5.8033	-.00046
#2	.00088	10.503	-.00030	-.00217	16.15	.00082	.00054	5.8018	-.00055

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.10879	.00069	-.00065	.00001	.00318
Stddev	.00038	.00050	.00121	.00030	.00002
%RSD	.35177	72.391	185.59	2095.5	.53135

#1	.10852	.00034	.00020	-.00020	.00319
#2	.10906	.00105	-.00151	.00023	.00317

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4643.6	7555.4	86869.	10539.
Stddev	1.3	1.7	14.	27.
%RSD	.02824	.02191	.01643	.25369

#1	4642.7	7554.2	86859.	10558.
#2	4644.6	7556.5	86879.	10520.

Sample Name: 480-45471-B-1-A Acquired: 9/12/2013 1:27:45 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00030	.04346	.00867	.02803	.13345	-.00000	60.278	.00009	.00006
Stddev	.00059	.01329	.00021	.00030	.00005	.00005	.040	.00013	.00002
%RSD	200.46	30.578	2.4770	1.0546	.03552	21310.	.06596	148.69	36.780

#1	.00071	.05286	.00852	.02824	.13349	.00004	60.306	-.00000	.00005
#2	-.00012	.03406	.00883	.02782	.13342	-.00004	60.250	.00018	.00008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00052	.00809	.33382	.72154	.76120	.00476	12.944	.17725	.16877
Stddev	.00007	.00009	.00043	.00829	.00091	.00029	.050	.00050	.00028
%RSD	13.082	1.0582	.12879	1.1493	.11958	6.1459	.38966	.28211	.16415

#1	.00047	.00815	.33413	.71568	.76056	.00496	12.909	.17690	.16857
#2	.00056	.00803	.33352	.72740	.76184	.00455	12.980	.17761	.16896

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00053	13.975	-.00015	.00100	F 16.03	-.00024	.00120	5.9248	-.00015
Stddev	.00030	.018	.00030	.00038	.05	.00012	.00319	.0319	.00065
%RSD	57.658	.12728	196.85	37.682	.3312	48.918	266.56	.53752	431.06

#1	.00074	13.987	-.00037	.00073	15.99	-.00032	-.00106	5.9473	-.00061
#2	.00031	13.962	.00006	.00127	16.06	-.00015	.00345	5.9022	.00031

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.11212	.00051	.00013	.00011	.01875
Stddev	.00004	.00021	.00056	.00019	.00071
%RSD	.03412	41.092	444.04	172.04	3.7688

#1	.11210	.00066	-.00027	-.00002	.01825
#2	.11215	.00036	.00052	.00025	.01925

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4637.5	7558.8	86339.	10477.
Stddev	2.8	7.4	323.	14.
%RSD	.06104	.09788	.37450	.13214
#1	4639.5	7564.0	86568.	10487.
#2	4635.5	7553.6	86110.	10467.

Sample Name: 480-45471-B-2-A Acquired: 9/12/2013 1:30:32 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00078	.02948	.00806	.02761	.13019	-0.0010	59.349	.00004	-0.0006
Stddev	.00060	.01071	.00007	.00004	.00041	.00010	.276	.00012	.00001
%RSD	77.071	36.308	.90711	.15942	.31801	98.948	.46521	297.92	18.105

#1	.00036	.02191	.00801	.02764	.12990	-0.0017	59.544	-0.0004	-0.0007
#2	.00121	.03705	.00811	.02758	.13048	-0.0003	59.154	.00012	-0.0005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00064	-0.0033	.29494	.68222	.65794	.00489	12.827	.17864	.16987
Stddev	.00001	.00013	.00123	.04569	.00284	.00077	.022	.00014	.00273
%RSD	2.0712	39.513	.41584	6.6979	.43220	15.750	.16880	.07612	1.6051

#1	.00063	-0.00024	.29581	.71453	.65593	.00435	12.842	.17854	.16794
#2	.00065	-0.00042	.29408	.64991	.65996	.00544	12.811	.17874	.17180

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00085	10.285	.00009	-0.00277	F 16.17	-0.00184	-0.00220	5.7824	.00002
Stddev	.00009	.027	.00035	.00024	.01	.00164	.00075	.0217	.00027
%RSD	10.427	.26139	398.45	8.5257	.0590	89.163	34.062	.37565	1218.4

#1	.00091	10.304	-0.00016	-0.00260	16.17	-0.00299	-0.00167	5.7978	-0.00017
#2	.00079	10.266	.00034	-0.00294	16.16	-0.00068	-0.00273	5.7671	.00021

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.11017	.00044	-0.00067	.00034	.00047
Stddev	.00025	.00024	.00439	.00011	.00014
%RSD	.22357	54.111	652.78	31.882	28.979

#1	.11035	.00061	-0.00378	.00026	.00037
#2	.11000	.00027	.00243	.00042	.00056

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4638.0	7547.6	86906.	10554.
Stddev	1.9	1.5	65.	27.
%RSD	.04093	.02046	.07487	.25369

#1	4639.3	7548.7	86952.	10535.
#2	4636.6	7546.5	86860.	10573.

Sample Name: 480-45471-B-3-A Acquired: 9/12/2013 1:33:19 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00061	.05046	.00831	.02799	.13279	-.00002	60.575	.00013	-.00011
Stddev	.00019	.01228	.00151	.00006	.00028	.00004	.072	.00001	.00001
%RSD	30.507	24.333	18.132	.22457	.21049	239.45	.11968	9.1640	11.500

#1	.00048	.05914	.00938	.02795	.13298	.00001	60.627	.00014	-.00010
#2	.00074	.04178	.00725	.02804	.13259	-.00005	60.524	.00012	-.00012

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00062	.00569	.30817	.68812	.67687	.00529	13.060	.18206	.17327
Stddev	.00034	.00029	.00231	.01629	.00298	.00023	.026	.00065	.00034
%RSD	54.063	5.0609	.74971	2.3675	.44034	4.3419	.19663	.35614	.19762

#1	.00038	.00548	.30980	.69964	.67898	.00513	13.078	.18160	.17351
#2	.00086	.00589	.30653	.67660	.67476	.00545	13.041	.18252	.17303

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00070	11.877	-.00038	-.00102	F 16.48	-.00204	-.00050	5.9073	-.00063
Stddev	.00005	.001	.00024	.00128	.03	.00091	.00073	.0086	.00023
%RSD	7.7638	.01180	63.124	124.96	.2007	44.682	148.07	.14604	36.893

#1	.00074	11.876	-.00054	-.00193	16.46	-.00269	-.00101	5.9012	-.00046
#2	.00066	11.878	-.00021	-.00012	16.50	-.00140	.00002	5.9134	-.00079

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.11235	.00062	-.00141	.00017	.00410
Stddev	.00045	.00000	.00128	.00029	.00022
%RSD	.39875	.03632	91.371	172.64	5.4718

#1	.11267	.00062	-.00231	-.00004	.00395
#2	.11204	.00062	-.00050	.00037	.00426

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4638.3	7551.8	87029.	10563.
Stddev	1.1	9.6	107.	37.
%RSD	.02350	.12749	.12257	.35399

#1	4639.1	7558.6	86954.	10537.
#2	4637.5	7545.0	87105.	10590.

Sample Name: CCV Acquired: 9/12/2013 1:36:09 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.50052	25.024	.49685	.47918	.50305	.50733	25.055	.47903	.48992	.49947	.49048	24.040
Stddev	.00152	.022	.00268	.00004	.00044	.00015	.030	.00096	.00076	.00084	.00109	.001
%RSD	.30337	.08776	.53911	.00739	.08822	.02966	.11820	.20011	.15461	.16851	.22191	.00349

#1	.49945	25.009	.49874	.47915	.50336	.50744	25.076	.47835	.48938	.49887	.48971	24.039
#2	.50159	25.040	.49495	.47920	.50273	.50722	25.035	.47971	.49045	.50006	.49125	24.040

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.632	25.611	.49118	23.901	.50151	.47956	.47946	23.969	.49817	.49443	25.04	.50871
Stddev	.025	.086	.00086	.016	.00008	.00495	.00067	.016	.00050	.00005	.06	.00288
%RSD	.10224	.33431	.17602	.06502	.01630	1.0323	.14003	.06572	.09964	.00972	.2231	.56704

#1	24.649	25.671	.49057	23.890	.50145	.47606	.47899	23.980	.49852	.49446	25.08	.51075
#2	24.614	25.550	.49179	23.912	.50157	.48306	.47994	23.958	.49782	.49439	25.01	.50667

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48578	24.690	.48402	.49184	.47797	.49649	.48307	.48977
Stddev	.00498	.007	.00280	.00050	.00019	.00468	.00018	.00017
%RSD	1.0259	.02896	.57775	.10180	.03891	.94176	.03759	.03503

#1	.48226	24.695	.48205	.49219	.47810	.49318	.48320	.48965
#2	.48930	24.685	.48600	.49148	.47784	.49979	.48294	.48990

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4584.1	7722.6	86782.	10406.
Stddev	10.5	14.0	50.	6.
%RSD	.22982	.18094	.05814	.05945
#1	4591.6	7732.5	86818.	10402.
#2	4576.7	7712.7	86746.	10410.

Sample Name: CCB Acquired: 9/12/2013 1:38:56 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00099	.03732	-.00019	.00026	.00018	-.00000	.00834	.00010	.00005	.00003	-.00081	.00259
Stddev	.00032	.00219	.00111	.00023	.00002	.00005	.00017	.00009	.00019	.00021	.00023	.00126
%RSD	32.317	5.8810	589.30	86.399	9.8159	987.63	1.9996	93.905	415.60	715.34	28.595	48.498

#1	.00121	.03577	.00060	.00042	.00020	.00003	.00822	.00016	.00018	.00017	-.00064	.00170
#2	.00076	.03887	-.00098	.00010	.00017	-.00004	.00846	.00003	-.00009	-.00012	-.00097	.00348

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.09358	.00375	-.00056	.00172	.00012	.00030	.00024	.00822	.00028	-.00054	F .0102	-.00017
Stddev	.00631	.00092	.00013	.00597	.00005	.00054	.00016	.00158	.00019	.00016	.0022	.00133
%RSD	6.7469	24.555	22.235	346.90	42.566	183.14	65.474	19.209	65.562	29.247	21.94	799.93

#1	.08911	.00440	-.00047	.00594	.00009	-.00009	.00013	.00934	.00015	-.00043	.0118	.00077
#2	.09804	.00310	-.00065	-.00250	.00016	.00068	.00036	.00710	.00042	-.00065	.0086	-.00111

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00157	.02083	-.00014	.00019	.00045	-.00128	.00024	-.00059
Stddev	.00143	.00292	.00008	.00010	.00007	.00110	.00000	.00051
%RSD	91.434	14.029	56.005	53.542	14.820	85.758	1.6855	85.348

#1	-.00258	.01876	-.00009	.00012	.00049	-.00051	.00024	-.00024
#2	-.00055	.02290	-.00020	.00026	.00040	-.00206	.00024	-.00095

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4960.1	7832.7	89905.	10483.
Stddev	5.3	5.1	52.	2.
%RSD	.10731	.06515	.05772	.02174
#1	4956.3	7829.0	89942.	10481.
#2	4963.9	7836.3	89869.	10484.

Sample Name: MB 480-138336/1-A Acquired: 9/12/2013 1:41:48 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00040	.03761	-.00152	.00339	.00023	-.00003	.03237	.00001	.00001
Stddev	.00081	.00967	.00058	.00026	.00001	.00003	.00044	.00006	.00002
%RSD	200.26	25.704	37.855	7.8247	4.6851	86.934	1.3525	575.43	188.42

#1	-.00017	.03077	-.00111	.00320	.00022	-.00001	.03206	-.00003	-.00000
#2	.00097	.04444	-.00193	.00357	.00024	-.00005	.03268	.00005	.00002

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00006	-.00095	.03164	.10512	.00083	-.00072	.00221	.00002	.00001
Stddev	.00020	.00003	.00281	.00628	.00022	.00072	.00203	.00000	.00020
%RSD	328.45	2.7605	8.8947	5.9702	25.778	99.980	91.884	3.9372	2550.3

#1	.00008	-.00093	.02965	.10955	.00068	-.00123	.00077	.00002	-.00013
#2	-.00020	-.00097	.03363	.10068	.00099	-.00021	.00364	.00002	.00015

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00003	.00909	-.00057	-.00024	F .0060	-.00014	-.00124	-.00551	-.00003
Stddev	.00000	.00094	.00002	.00056	.0012	.00049	.00008	.00006	.00024
%RSD	8.1454	10.344	3.2672	235.02	19.58	341.87	6.2903	1.1779	836.45

#1	.00003	.00975	-.00056	-.00063	.0052	.00020	-.00119	-.00555	.00014
#2	.00002	.00842	-.00059	.00016	.0069	-.00049	-.00130	-.00546	-.00019

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass
High Limit					.0022				
Low Limit					-.0040				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00039	.00030	-.00115	.00017	-.00043
Stddev	.00004	.00012	.00100	.00032	.00041
%RSD	9.8183	40.834	86.886	181.55	95.946

#1	.00042	.00021	-.00044	-.00005	-.00014
#2	.00036	.00039	-.00186	.00040	-.00072

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4962.1	7820.1	90365.	10572.
Stddev	6.2	8.4	52.	2.
%RSD	.12456	.10704	.05792	.01920

#1	4966.5	7826.0	90328.	10574.
#2	4957.8	7814.2	90402.	10571.

Sample Name: LCS 480-138336/2-A Acquired: 9/12/2013 1:44:39 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05179	10.333	.20036	.20354	.20516	.21027	10.192	.19781	.19971
Stddev	.00017	.023	.00076	.00031	.00002	.00010	.027	.00029	.00015
%RSD	.32808	.22155	.37848	.15004	.00933	.04942	.26600	.14775	.07429

#1	.05191	10.349	.19982	.20375	.20515	.21034	10.173	.19760	.19961
#2	.05167	10.317	.20090	.20332	.20517	.21020	10.211	.19801	.19982

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20493	.20083	10.018	9.9581	10.351	.19985	10.121	.20280	.19084
Stddev	.00044	.00041	.008	.0074	.055	.00039	.039	.00016	.00114
%RSD	.21471	.20558	.07593	.07418	.53293	.19633	.38929	.07991	.59662

#1	.20524	.20112	10.013	9.9633	10.312	.19958	10.149	.20291	.19165
#2	.20461	.20053	10.024	9.9529	10.390	.20013	10.093	.20269	.19004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20087	9.6211	.19926	.19705	F .0074	.20238	.19944	10.188	.18748
Stddev	.00026	.0073	.00023	.00074	.0023	.00118	.00155	.010	.00088
%RSD	.12953	.07536	.11489	.37331	30.73	.58458	.77872	.09769	.47011

#1	.20106	9.6160	.19942	.19757	.0058	.20321	.19834	10.181	.18686
#2	.20069	9.6262	.19910	.19653	.0091	.20154	.20054	10.195	.18810

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					11.50				
Low Limit					8.500				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20024	.18693	.20121	.19851	.19723
Stddev	.00012	.00053	.00155	.00040	.00072
%RSD	.06049	.28196	.76815	.20120	.36752

#1	.20033	.18731	.20230	.19822	.19775
#2	.20016	.18656	.20012	.19879	.19672

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4742.4	7751.8	88017.	10399.
Stddev	9.5	11.7	115.	43.
%RSD	.19927	.15071	.13104	.40990

#1	4749.1	7760.1	87936.	10429.
#2	4735.8	7743.5	88099.	10369.

Sample Name: LCSD 480-138336/3-A Acquired: 9/12/2013 1:47:26 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05109	10.203	.20186	.20406	.20319	.20985	10.041	.19908	.20035
Stddev	.00051	.029	.00021	.00027	.00036	.00047	.030	.00005	.00012
%RSD	.98988	.28047	.10394	.13466	.17923	.22629	.29795	.02356	.06041

#1	.05073	10.223	.20171	.20386	.20345	.21019	10.062	.19905	.20026
#2	.05145	10.183	.20201	.20425	.20294	.20952	10.020	.19911	.20043

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20419	.20012	9.9905	9.9400	10.151	.19860	10.168	.20481	.19110
Stddev	.00045	.00021	.0018	.0228	.024	.00030	.004	.00123	.00013
%RSD	.21844	.10485	.01765	.22899	.23242	.14994	.03501	.60255	.07047

#1	.20388	.19997	9.9917	9.9561	10.134	.19839	10.166	.20394	.19119
#2	.20451	.20027	9.9892	9.9239	10.167	.19881	10.171	.20568	.19100

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20246	9.6623	.20127	.19986	F .0161	.20474	.20210	10.027	.19002
Stddev	.00085	.0048	.00161	.00065	.0010	.00182	.00482	.030	.00050
%RSD	.41822	.04973	.79952	.32321	5.908	.88668	2.3841	.30013	.26549

#1	.20305	9.6589	.20014	.19940	.0154	.20345	.19869	10.048	.19038
#2	.20186	9.6657	.20241	.20032	.0168	.20602	.20550	10.006	.18966

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					11.50				
Low Limit					8.500				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20006	.18812	.20335	.19613	.19995
Stddev	.00029	.00094	.00023	.00009	.00101
%RSD	.14622	.50011	.11537	.04666	.50673

#1	.20027	.18746	.20352	.19607	.19924
#2	.19986	.18879	.20319	.19620	.20067

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4742.3	7754.9	88515.	10547.
Stddev	3.4	8.5	81.	13.
%RSD	.07227	.10919	.09142	.12505

#1	4744.7	7748.9	88458.	10538.
#2	4739.9	7760.9	88573.	10557.

Sample Name: 480-45474-F-1-A Acquired: 9/12/2013 1:50:13 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00027	.34658	.00241	.05698	.03774	.00001	125.02	.00037	.00166
Stddev	.00020	.01507	.00164	.00019	.00010	.00003	.32	.00006	.00013
%RSD	73.773	4.3480	68.300	.33677	.25960	391.32	.25393	15.938	8.1167

#1	.00013	.35724	.00357	.05711	.03767	.00003	125.24	.00033	.00175
#2	.00041	.33593	.00124	.05684	.03781	-.00002	124.79	.00042	.00156

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00096	.00080	.53041	2.0224	2.8261	.00325	45.744	.25555	.25230
Stddev	.00002	.00031	.00241	.0128	.0100	.00114	.211	.00090	.00259
%RSD	2.1027	39.465	.45466	.63157	.35277	35.206	.46029	.35055	1.0280

#1	.00098	.00057	.52870	2.0134	2.8191	.00406	45.893	.25619	.25413
#2	.00095	.00102	.53212	2.0315	2.8332	.00244	45.595	.25492	.25047

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00033	103.47	.00113	F -.00620	F 15.40	.00115	-.00160	14.601	-.00040
Stddev	.00011	.26	.00017	.00100	.00	.00142	.00071	.024	.00022
%RSD	34.351	.24707	14.713	16.070	.0252	123.68	44.088	.16368	56.812

#1	.00041	103.65	.00125	-.00691	15.41	.00014	-.00210	14.584	-.00024
#2	.00025	103.29	.00101	-.00550	15.40	.00216	-.00110	14.618	-.00055

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				120.00	10.00				
Low Limit				-.00500	-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.49593	.01902	-.00178	.00310	.00544
Stddev	.00064	.00021	.00157	.00013	.00016
%RSD	.12804	1.0797	88.161	4.1721	2.9076

#1	.49638	.01888	-.00067	.00301	.00533
#2	.49548	.01917	-.00289	.00319	.00555

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4308.0	7345.0	83826.	10466.
Stddev	3.0	2.6	250.	28.
%RSD	.06882	.03542	.29851	.27075
#1	4305.9	7346.9	83649.	10446.
#2	4310.1	7343.2	84003.	10486.

Sample Name: 480-45474-F-2-A Acquired: 9/12/2013 1:52:59 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00035	.45494	-.00014	.00859	.00709	-.00000	48.448	.00008	.00014
Stddev	.00024	.00196	.00049	.00022	.00001	.00008	.153	.00003	.00002
%RSD	70.479	.43187	343.03	2.5420	.18996	1820.4	.31579	41.555	14.427

#1	.00017	.45355	-.00049	.00874	.00709	.00005	48.340	.00005	.00016
#2	.00052	.45633	.00020	.00843	.00708	-.00006	48.556	.00010	.00013

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00052	.00011	.27106	.99603	1.1106	.00093	7.1661	.01803	.01691
Stddev	.00002	.00003	.00377	.01111	.0002	.00106	.0004	.00004	.00030
%RSD	4.4881	26.906	1.3896	1.1154	.01776	113.73	.00621	.22110	1.7594

#1	.00054	.00009	.26840	.98817	1.1107	.00018	7.1658	.01800	.01712
#2	.00051	.00013	.27373	1.0039	1.1105	.00169	7.1665	.01806	.01670

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_2243)	(Y_3774)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00014	47.677	49.615	.00040	-.00342	8.794	-.00119	-.00490	10.175
Stddev	.00018	.094	.152	.00019	.00105	.021	.00047	.00192	.013
%RSD	127.90	.19631	.30536	48.510	30.679	.2425	39.276	39.196	.12489

#1	.00027	47.610	49.508	.00026	-.00416	8.778	-.00086	-.00354	10.184
#2	.00001	47.743	49.722	.00053	-.00268	8.809	-.00152	-.00626	10.166

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00021	.28339	.01767	-.00205	.00089	.00524
Stddev	.00001	.00038	.00073	.00337	.00024	.00002
%RSD	6.2186	.13331	4.1568	164.27	27.131	.43537

#1	-.00020	.28313	.01819	-.00444	.00072	.00525
#2	-.00022	.28366	.01715	.00033	.00106	.00522

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4584.8	7593.5	86483.	10537.
Stddev	3.5	3.4	29.	29.
%RSD	.07724	.04478	.03388	.27084

#1	4587.3	7591.1	86503.	10557.
#2	4582.3	7595.9	86462.	10517.

Sample Name: 480-45474-F-2-A SD@5 Acquired: 9/12/2013 1:55:46 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00010	.12937	-.00086	.00116	.00160	.00003	10.095	.00007	.00017
Stddev	.00013	.00300	.00156	.00008	.00000	.00003	.016	.00005	.00002
%RSD	126.48	2.3162	181.44	7.0204	.01219	84.845	.15712	72.497	12.635

#1	.00020	.13149	.00024	.00122	.00160	.00001	10.084	.00011	.00019
#2	.00001	.12725	-.00196	.00111	.00160	.00005	10.106	.00004	.00016

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00045	-.00055	.05606	.25842	.18063	-.00061	1.4688	.00410	.00385
Stddev	.00019	.00011	.00106	.02295	.00111	.00132	.0034	.00004	.00020
%RSD	41.813	19.586	1.8831	8.8806	.61229	217.26	.22876	.85827	5.2879

#1	.00058	-.00047	.05681	.24219	.18141	-.00154	1.4712	.00407	.00371
#2	.00031	-.00062	.05531	.27465	.17985	.00032	1.4664	.00412	.00400

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	9.6756	.00013	-.00070	1.756	-.00050	-.00288	2.0997	-.00018
Stddev	.00009	.0045	.00030	.00057	.001	.00179	.00122	.0050	.00018
%RSD	168.12	.04688	230.47	81.349	.0821	355.12	42.316	.23646	104.56

#1	-.00001	9.6788	-.00008	-.00030	1.755	-.00177	-.00374	2.1032	-.00005
#2	.00011	9.6724	.00035	-.00110	1.757	.00076	-.00202	2.0961	-.00031

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05803	.00363	-.00169	.00040	.00111
Stddev	.00000	.00004	.00119	.00006	.00036
%RSD	.00160	1.1001	70.687	15.178	32.850

#1	.05803	.00360	-.00253	.00045	.00085
#2	.05803	.00366	-.00084	.00036	.00137

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4868.5	7808.0	88264.	10488.
Stddev	7.5	8.4	259.	49.
%RSD	.15456	.10777	.29315	.46302

#1	4873.9	7813.9	88447.	10523.
#2	4863.2	7802.0	88081.	10454.

Sample Name: 480-45474-F-2-A PDS Acquired: 9/12/2013 1:58:36 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05238	10.767	.21478	.21544	.21001	.21798	56.961	.20251	.20749
Stddev	.00127	.035	.00149	.00035	.00012	.00011	.359	.00011	.00003
%RSD	2.4258	.32207	.69578	.16428	.05492	.05260	.63023	.05423	.01309

#1	.05328	10.791	.21584	.21569	.20993	.21806	57.215	.20259	.20747
#2	.05148	10.742	.21373	.21519	.21010	.21790	56.707	.20243	.20751

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20389	.20586	10.365	11.105	13.497	.20811	17.299	.22360	.21654
Stddev	.00069	.00025	.026	.047	.001	.00186	.032	.00039	.00015
%RSD	.33754	.11942	.25062	.41968	.00989	.89240	.18452	.17451	.06991

#1	.20340	.20568	10.384	11.138	13.496	.20942	17.321	.22388	.21644
#2	.20437	.20603	10.347	11.072	13.498	.20679	17.276	.22332	.21665

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20158	58.547	.20725	.20348	8.537	.20841	.20506	20.295	.19198
Stddev	.00009	.123	.00108	.00088	.022	.00002	.00033	.083	.00019
%RSD	.04660	.21049	.52049	.43286	.2616	.01062	.16161	.41067	.10046

#1	.20165	58.460	.20649	.20410	8.553	.20840	.20482	20.354	.19212
#2	.20151	58.634	.20801	.20285	8.522	.20843	.20529	20.236	.19185

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.47557	.21147	.21192	.20354	.20395
Stddev	.00269	.00025	.00075	.00035	.00109
%RSD	.56663	.11849	.35261	.16994	.53489

#1	.47747	.21165	.21139	.20330	.20472
#2	.47366	.21129	.21245	.20379	.20318

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4478.0	7575.4	86742.	10577.
Stddev	6.2	3.1	139.	47.
%RSD	.13778	.04093	.16012	.44721

#1	4482.3	7573.2	86644.	10544.
#2	4473.6	7577.6	86840.	10610.

Sample Name: 480-45474-F-2-B MS Acquired: 9/12/2013 2:01:22 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05217	10.747	.20558	.21001	.20498	.20873	59.231	.19710	.20063
Stddev	.00028	.009	.00453	.00042	.00013	.00052	.013	.00016	.00108
%RSD	.54285	.08674	2.2049	.20165	.06209	.24765	.02183	.08280	.53619

#1	.05237	10.754	.20238	.20971	.20507	.20910	59.222	.19699	.20139
#2	.05197	10.741	.20879	.21031	.20489	.20837	59.240	.19722	.19987

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20108	.19947	10.126	10.957	13.342	.20106	17.238	.21798	.21031
Stddev	.00032	.00006	.005	.037	.102	.00133	.026	.00024	.00141
%RSD	.16139	.02782	.05067	.33525	.76512	.66273	.15235	.11174	.67122

#1	.20131	.19943	10.122	10.983	13.414	.20201	17.257	.21781	.21131
#2	.20085	.19951	10.129	10.931	13.269	.20012	17.220	.21815	.20931

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19759	60.322	.20167	.19453	8.926	.20101	.20284	20.642	.19172
Stddev	.00065	.046	.00100	.00141	.002	.00051	.00241	.043	.00153
%RSD	.33034	.07630	.49827	.72516	.0176	.25372	1.1878	.21023	.79746

#1	.19805	60.289	.20238	.19552	8.927	.20065	.20455	20.611	.19280
#2	.19713	60.354	.20096	.19353	8.925	.20137	.20114	20.673	.19064

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.48864	.21062	.20166	.19398	.19851
Stddev	.00022	.00121	.00064	.00024	.00119
%RSD	.04400	.57467	.31544	.12116	.59804

#1	.48849	.21148	.20121	.19381	.19767
#2	.48880	.20977	.20211	.19414	.19935

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4470.3	7585.8	86139.	10505.
Stddev	6.2	.3	223.	.
%RSD	.13843	.00365	.25941	.00303

#1	4465.9	7586.0	85981.	10505.
#2	4474.7	7585.6	86298.	10506.

Sample Name: 480-45474-F-2-C MSD Acquired: 9/12/2013 2:04:08 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05187	10.536	.19992	.20866	.20517	.20698	59.492	.19286	.19792
Stddev	.00046	.086	.00146	.00034	.00014	.00081	.402	.00013	.00007
%RSD	.88050	.81591	.73181	.16105	.06786	.38958	.67636	.06650	.03722

#1	.05219	10.475	.20096	.20890	.20527	.20641	59.208	.19295	.19797
#2	.05154	10.596	.19889	.20843	.20507	.20755	59.777	.19277	.19787

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19981	.19852	9.9345	10.878	13.065	.20170	16.977	.21343	.20764
Stddev	.00012	.00025	.0335	.031	.007	.00006	.036	.00017	.00006
%RSD	.06068	.12403	.33765	.28458	.05401	.03045	.21469	.07854	.02650

#1	.19990	.19869	9.9107	10.857	13.070	.20166	17.003	.21355	.20760
#2	.19973	.19835	9.9582	10.900	13.060	.20174	16.951	.21331	.20767

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19407	60.574	.19781	.19130	8.849	.20026	.19582	20.365	.19232
Stddev	.00072	.154	.00044	.00073	.018	.00051	.00019	.213	.00120
%RSD	.36984	.25473	.22042	.38391	.2053	.25377	.09872	1.0439	.62176

#1	.19357	60.465	.19750	.19078	8.836	.20062	.19568	20.214	.19147
#2	.19458	60.683	.19811	.19182	8.861	.19990	.19596	20.515	.19317

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.48731	.19652	.19464	.19335	.19650
Stddev	.00312	.00059	.00034	.00020	.00051
%RSD	.64032	.29880	.17272	.10445	.26022

#1	.48510	.19611	.19488	.19321	.19686
#2	.48951	.19694	.19440	.19349	.19614

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4477.9	7597.5	85441.	10442.
Stddev	1.5	4.7	153.	11.
%RSD	.03262	.06218	.17877	.11008

#1	4479.0	7600.9	85333.	10450.
#2	4476.9	7594.2	85549.	10434.

Sample Name: 480-45474-F-3-A Acquired: 9/12/2013 2:06:53 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00047	.27300	-.00184	.00930	.00526	.00000	49.972	.00015	.00015
Stddev	.00035	.00363	.00079	.00015	.00002	.00000	.069	.00003	.00008
%RSD	74.911	1.3297	43.138	1.6362	.41243	44.862	.13750	23.691	51.672

#1	.00022	.27556	-.00128	.00919	.00528	.00001	49.923	.00017	.00009
#2	.00072	.27043	-.00240	.00941	.00524	.00000	50.021	.00012	.00020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00095	-.00011	.13719	.99246	1.1270	.00149	7.3866	.01192	.01176
Stddev	.00010	.00003	.00225	.00926	.0036	.00008	.0201	.00000	.00065
%RSD	10.994	28.848	1.6426	.93288	.32036	5.2840	.27178	.02411	5.5341

#1	.00088	-.00009	.13878	.98591	1.1296	.00154	7.4008	.01192	.01222
#2	.00103	-.00014	.13560	.99901	1.1245	.00143	7.3724	.01193	.01130

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_2243)	(Y_3774)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00008	49.368	51.276	-.00000	-.00423	8.992	-.00298	-.00428	9.9997
Stddev	.00002	.079	.485	.00030	.00085	.022	.00099	.00692	.0307
%RSD	22.081	.15911	.94668	12846.	20.163	.2424	33.219	161.66	.30706

#1	.00007	49.423	51.619	-.00021	-.00362	8.977	-.00368	-.00918	10.021
#2	.00009	49.312	50.932	.00021	-.00483	9.008	-.00228	.00061	9.9780

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00028	.29252	.01075	-.00182	.00092	.00467
Stddev	.00008	.00027	.00004	.00057	.00012	.00040
%RSD	29.937	.09268	.40557	31.532	12.947	8.6507

#1	-.00034	.29271	.01072	-.00141	.00100	.00496
#2	-.00022	.29233	.01078	-.00222	.00083	.00439

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4573.2	7566.2	86614.	10496.
Stddev	1.8	5.6	59.	10.
%RSD	.03931	.07434	.06760	.09844
#1	4574.5	7570.1	86572.	10503.
#2	4571.9	7562.2	86655.	10489.

Sample Name: CCV Acquired: 9/12/2013 2:09:44 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49069	24.305	.49707	.48034	.48674	.50596	24.317	.47897	.49071	.49631	.48678	23.956
Stddev	.00325	.013	.00125	.00064	.00121	.00098	.028	.00017	.00091	.00084	.00069	.100
%RSD	.66333	.05156	.25119	.13272	.24817	.19415	.11599	.03591	.18482	.16869	.14114	.41556

#1	.48839	24.296	.49796	.47989	.48588	.50665	24.337	.47885	.49007	.49572	.48629	24.026
#2	.49299	24.314	.49619	.48079	.48759	.50526	24.297	.47909	.49135	.49690	.48726	23.885

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.418	25.126	.48404	23.896	.50404	.48315	.47956	23.723	.49782	.49540	25.24	.51069
Stddev	.027	.287	.00020	.020	.00031	.00404	.00060	.030	.00151	.00058	.01	.00004
%RSD	.11109	1.1404	.04128	.08416	.06084	.83617	.12562	.12581	.30301	.11736	.0377	.00707

#1	24.399	25.329	.48418	23.910	.50383	.48029	.47914	23.745	.49675	.49499	25.24	.51072
#2	24.437	24.924	.48390	23.882	.50426	.48600	.47999	23.702	.49888	.49581	25.23	.51066

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48366	24.132	.48357	.48731	.47443	.49759	.47456	.48182
Stddev	.00379	.002	.00002	.00022	.00072	.00007	.00244	.00153
%RSD	.78389	.00745	.00423	.04553	.15198	.01457	.51358	.31844

#1	.48098	24.133	.48358	.48747	.47392	.49754	.47284	.48073
#2	.48634	24.131	.48355	.48715	.47494	.49764	.47628	.48290

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4563.5	7698.7	87570.	10593.
Stddev	5.2	7.5	278.	50.
%RSD	.11398	.09782	.31794	.46742
#1	4559.9	7693.4	87767.	10558.
#2	4567.2	7704.0	87373.	10628.

Sample Name: CCB Acquired: 9/12/2013 2:12:31 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00096	.02756	-.00202	-.00009	.00014	.00005	.00512	-.00002	.00021	.00015	-.00112	.00182
Stddev	.00054	.00596	.00004	.00022	.00001	.00001	.00315	.00000	.00004	.00009	.00025	.00095
%RSD	56.545	21.621	2.0571	234.97	5.0517	18.907	61.503	14.169	16.637	59.568	22.527	51.858

#1	.00058	.02334	-.00199	.00006	.00015	.00004	.00290	-.00002	.00019	.00008	-.00094	.00115
#2	.00134	.03177	-.00205	-.00025	.00014	.00005	.00735	-.00001	.00024	.00021	-.00130	.00249

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.07787	.00438	.00016	.00226	.00014	-.00020	.00021	.00672	-.00049	-.00134	F .0064	-.00093
Stddev	.02769	.00020	.00043	.00365	.00004	.00039	.00005	.00078	.00021	.00149	.0008	.00228
%RSD	35.560	4.6700	270.47	161.60	26.167	199.43	23.310	11.631	43.600	110.81	12.78	245.91

#1	.05829	.00423	-.00015	-.00032	.00017	-.00047	.00025	.00727	-.00034	-.00239	.0069	.00068
#2	.09745	.00452	.00047	.00484	.00011	.00008	.00018	.00617	-.00063	-.00029	.0058	-.00254

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00115	.02100	-.00008	.00011	.00055	.00100	.00013	-.00071
Stddev	.00014	.00153	.00018	.00016	.00015	.00106	.00005	.00025
%RSD	11.907	7.2922	219.08	140.07	27.182	106.58	35.839	35.823

#1	-.00125	.02208	.00005	.00000	.00044	.00175	.00010	-.00053
#2	-.00106	.01991	-.00021	.00022	.00065	.00025	.00016	-.00088

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4954.6	7831.0	89165.	10385.
Stddev	5.8	8.0	100.	50.
%RSD	.11787	.10169	.11204	.48062
#1	4958.7	7836.6	89236.	10350.
#2	4950.5	7825.4	89095.	10420.

Sample Name: 480-45474-F-4-A Acquired: 9/12/2013 2:15:24 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00086	1.9934	.00073	.03338	.02070	.00005	125.99	.00023	.00055
Stddev	.00007	.0087	.00068	.00017	.00006	.00002	.02	.00002	.00000
%RSD	8.1071	.43595	93.169	.51823	.27365	46.737	.01857	10.083	.40685

#1	.00091	1.9873	.00121	.03351	.02074	.00007	125.98	.00022	.00055
#2	.00081	1.9996	.00025	.03326	.02066	.00003	126.01	.00025	.00056

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00139	.00054	1.1879	1.3761	1.5446	.00339	33.912	.03261	.03125
Stddev	.00008	.00003	.0003	.0271	.0028	.00125	.040	.00002	.00017
%RSD	5.8481	6.0732	.02796	1.9659	.17837	37.063	.11818	.07570	.52965

#1	.00134	.00056	1.1881	1.3952	1.5466	.00427	33.883	.03263	.03113
#2	.00145	.00052	1.1877	1.3569	1.5427	.00250	33.940	.03259	.03137

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00001	5.0193	.00106	F -.00610	6.063	-.00145	.00030	16.510	-.00022
Stddev	.00000	.0036	.00010	.00049	.014	.00013	.00043	.004	.00003
%RSD	47.262	.07214	9.5135	8.0807	.2344	8.8202	143.41	.02290	11.553

#1	-.00001	5.0219	.00099	-.00575	6.053	-.00154	.00061	16.513	-.00020
#2	-.00001	5.0167	.00113	-.00645	6.073	-.00136	-.00000	16.508	-.00024

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				120.00					
Low Limit				-.00500					

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.37649	.08039	-.00217	.00202	.00218
Stddev	.00048	.00049	.00043	.00012	.00001
%RSD	.12822	.60480	19.688	6.0704	.57032

#1	.37683	.08073	-.00247	.00193	.00217
#2	.37615	.08004	-.00186	.00210	.00219

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4467.8	7497.1	85831.	10471.
Stddev	.8	6.8	185.	13.
%RSD	.01746	.09134	.21568	.12628

#1	4468.4	7492.3	85962.	10480.
#2	4467.3	7502.0	85700.	10461.

Sample Name: 480-45474-F-5-A Acquired: 9/12/2013 2:18:10 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00245	.12823	.00331	.03097	.03808	.00003	96.335	.00018	.00772
Stddev	.00004	.00932	.00177	.00045	.00009	.00001	.438	.00012	.00016
%RSD	1.5764	7.2647	53.501	1.4505	.23438	25.127	.45421	69.281	2.0905

#1	.00248	.12164	.00457	.03129	.03802	.00002	96.644	.00009	.00784
#2	.00242	.13481	.00206	.03065	.03814	.00003	96.025	.00026	.00761

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00231	.00019	29.523	2.2808	2.6719	.00138	16.991	10.516	10.578
Stddev	.00026	.00032	.026	.0174	.0057	.00031	.042	.088	.011
%RSD	11.043	169.88	.08911	.76325	.21221	22.062	.24629	.83877	.10540

#1	.00213	-.00004	29.541	2.2684	2.6759	.00160	17.020	10.453	10.570
#2	.00249	.00041	29.504	2.2931	2.6679	.00117	16.961	10.578	10.586

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00049	5.5362	.00029	-.00210	6.256	-.00056	.00596	9.9187	.00009
Stddev	.00016	.0124	.00027	.00038	.019	.00005	.00314	.0443	.00034
%RSD	31.700	.22421	92.730	17.974	.2994	8.6727	52.670	.44682	382.31

#1	-.00038	5.5449	.00048	-.00183	6.243	-.00059	.00374	9.9500	-.00015
#2	-.00061	5.5274	.00010	-.00237	6.269	-.00052	.00818	9.8873	.00033

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.51081	.00316	.00543	.00114	.00304
Stddev	.00175	.00001	.00205	.00014	.00003
%RSD	.34188	.32498	37.760	12.536	1.0771

#1	.51205	.00316	.00398	.00104	.00306
#2	.50958	.00317	.00688	.00124	.00301

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4534.3	7538.7	86565.	10479.
Stddev	7.7	12.9	52.	35.
%RSD	.16960	.17146	.05953	.33623

#1	4528.9	7529.5	86529.	10454.
#2	4539.8	7547.8	86602.	10504.

Sample Name: 480-45473-E-1-A Acquired: 9/12/2013 2:21:03 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00012	6.2680	-0.00068	.00794	.03997	.00046	6.6412	.00028	.00312
Stddev	.00052	.0037	.00124	.00016	.00006	.00005	.0089	.00012	.00001
%RSD	423.01	.05985	183.01	2.0318	.16071	12.024	.13324	42.427	.32730

#1	-0.00049	6.2706	.00020	.00805	.04001	.00049	6.6349	.00036	.00313
#2	.00024	6.2653	-.00155	.00783	.03992	.00042	6.6474	.00020	.00312

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00512	.01141	10.031	2.0505	2.1431	.00316	2.9806	.19110	.17769
Stddev	.00009	.00017	.054	.0056	.0029	.00012	.0026	.00046	.00032
%RSD	1.6658	1.4821	.53913	.27485	.13280	3.7834	.08607	.23847	.17736

#1	.00506	.01153	9.9929	2.0545	2.1410	.00307	2.9824	.19078	.17791
#2	.00518	.01129	10.069	2.0465	2.1451	.00324	2.9788	.19142	.17747

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00035	13.001	.00352	-.00181	1.833	-.00076	.00017	13.850	.00067
Stddev	.00001	.014	.00007	.00019	.004	.00018	.00048	.042	.00043
%RSD	2.5374	.10723	2.0065	10.362	.2327	23.700	281.77	.30682	63.945

#1	.00035	12.992	.00347	-.00168	1.830	-.00064	-.00017	13.820	.00037
#2	.00034	13.011	.00357	-.00194	1.836	-.00089	.00051	13.880	.00097

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.03112	.35370	-.00017	.01043	.06025
Stddev	.00006	.00119	.00065	.00008	.00020
%RSD	.19746	.33631	383.04	.72229	.32818

#1	.03107	.35286	-.00063	.01037	.06011
#2	.03116	.35454	.00029	.01048	.06039

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4801.3	7853.6	89447.	10601.
Stddev	1.4	6.5	160.	42.
%RSD	.02893	.08318	.17857	.39680

#1	4800.3	7858.2	89560.	10631.
#2	4802.3	7848.9	89334.	10571.

Sample Name: 480-45473-E-2-A Acquired: 9/12/2013 2:23:50 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00033	.05788	.00039	.00615	.00816	-.00005	43.615	.00009	-.00008
Stddev	.00025	.00321	.00196	.00015	.00000	.00001	.101	.00009	.00006
%RSD	75.687	5.5489	502.82	2.4169	.01921	14.656	.23187	93.267	74.699

#1	.00051	.06016	.00178	.00625	.00816	-.00005	43.543	.00003	-.00004
#2	.00016	.05561	-.00100	.00604	.00817	-.00004	43.686	.00015	-.00012

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00078	-.00037	.23489	1.5488	1.6569	-.00005	11.909	.15690	.14853
Stddev	.00026	.00020	.00023	.0419	.0244	.00053	.038	.00058	.00067
%RSD	33.729	55.154	.09897	2.7078	1.4743	1161.0	.31860	.36678	.45067

#1	.00096	-.00051	.23506	1.5784	1.6397	.00033	11.935	.15731	.14901
#2	.00059	-.00023	.23473	1.5191	1.6742	-.00042	11.882	.15649	.14806

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00073	4.8367	-.00037	-.00219	9.014	-.00056	-.00057	5.0041	.00014
Stddev	.00001	.0089	.00006	.00057	.012	.00005	.00042	.0391	.00009
%RSD	1.3989	.18484	16.303	26.218	.1280	8.5937	74.428	.78079	60.185

#1	.00074	4.8430	-.00042	-.00178	9.022	-.00060	-.00027	4.9764	.00020
#2	.00072	4.8303	-.00033	-.00259	9.006	-.00053	-.00087	5.0317	.00008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.13479	.00071	-.00216	-.00009	.00099
Stddev	.00053	.00016	.00006	.00011	.00005
%RSD	.39001	23.067	2.9121	122.61	5.0324

#1	.13516	.00083	-.00220	-.00001	.00102
#2	.13441	.00060	-.00211	-.00017	.00095

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4717.5	7656.3	87513.	10496.
Stddev	3.6	12.4	539.	39.
%RSD	.07596	.16156	.61645	.36767
#1	4714.9	7647.5	87132.	10524.
#2	4720.0	7665.0	87895.	10469.

Sample Name: 480-45473-E-3-A Acquired: 9/12/2013 2:26:38 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00023	11.348	.00235	.01217	.08944	.00074	12.617	.00017	.01264
Stddev	.00031	.050	.00061	.00025	.00016	.00003	.051	.00003	.00032
%RSD	133.53	.43887	26.132	2.0693	.17378	3.6499	.40591	15.896	2.5655

#1	.00001	11.384	.00192	.01199	.08933	.00076	12.653	.00016	.01241
#2	.00045	11.313	.00278	.01235	.08955	.00072	12.581	.00019	.01287

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01284	.01100	14.294	3.0930	3.1088	.00498	3.7985	.31165	.28991
Stddev	.00034	.00004	.019	.0378	.0141	.00118	.0045	.00015	.00118
%RSD	2.6653	.36083	.13097	1.2230	.45503	23.730	.11772	.04918	.40593

#1	.01308	.01103	14.281	3.1198	3.1188	.00414	3.7954	.31154	.28908
#2	.01260	.01097	14.308	3.0663	3.0988	.00581	3.8017	.31176	.29075

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00077	3.0794	.00682	F -.00516	2.476	-.00151	-.00015	24.029	.00013
Stddev	.00001	.0041	.00034	.00105	.004	.00132	.00046	.082	.00007
%RSD	1.7856	.13295	4.9449	20.392	.1467	87.133	300.98	.33941	52.205

#1	.00076	3.0822	.00658	-.00591	2.478	-.00058	.00017	24.087	.00008
#2	.00078	3.0765	.00706	-.00442	2.473	-.00245	-.00048	23.971	.00018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				120.00					
Low Limit				-.00500					

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04693	.71364	-.00034	.01846	.03907
Stddev	.00011	.00146	.00001	.00014	.00066
%RSD	.22783	.20462	3.4506	.73745	1.6812

#1	.04685	.71467	-.00033	.01836	.03860
#2	.04701	.71260	-.00035	.01856	.03953

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4814.5	7885.9	90489.	10681.
Stddev	5.2	.7	126.	30.
%RSD	.10855	.00923	.13893	.28172

#1	4818.2	7885.3	90578.	10659.
#2	4810.8	7886.4	90400.	10702.

Sample Name: 480-45473-E-4-A Acquired: 9/12/2013 2:29:24 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00192	.70819	.00099	.01379	.04941	.00001	8.2734	.00035	.00728
Stddev	.00010	.01104	.00147	.00005	.00014	.00000	.0478	.00000	.00005
%RSD	5.1058	1.5584	148.95	.36775	.27509	47.478	.57762	1.3986	.63537

#1	.00199	.70039	.00202	.01382	.04950	.00001	8.3072	.00035	.00731
#2	.00185	.71599	-.00005	.01375	.04931	.00001	8.2396	.00036	.00725

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00201	.00130	4.5345	1.2034	1.0984	-.00053	2.4607	5.9914	5.6504
Stddev	.00009	.00016	.0152	.0144	.0056	.00131	.0073	.0113	.0391
%RSD	4.4113	12.642	.33490	1.1969	.50839	247.63	.29832	.18802	.69265

#1	.00195	.00118	4.5453	1.2136	1.1023	.00040	2.4555	5.9834	5.6227
#2	.00208	.00142	4.5238	1.1932	1.0944	-.00146	2.4658	5.9994	5.6780

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00004	1.7086	.00117	-.00247	2.986	-.00291	.00065	5.7291	-.00020
Stddev	.00012	.0071	.00035	.00081	.004	.00164	.00014	.0149	.00018
%RSD	290.38	.41797	29.947	32.585	.1160	56.314	21.455	.25989	90.534

#1	.00004	1.7136	.00142	-.00304	2.988	-.00407	.00055	5.7396	-.00007
#2	-.00012	1.7035	.00092	-.00190	2.983	-.00175	.00074	5.7186	-.00033

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05538	.00716	.00432	.00047	.00404
Stddev	.00002	.00014	.00032	.00008	.00046
%RSD	.03490	1.8870	7.4617	18.046	11.466

#1	.05539	.00707	.00409	.00053	.00371
#2	.05536	.00726	.00455	.00041	.00436

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4884.1	7824.9	89947.	10572.
Stddev	3.0	1.4	152.	76.
%RSD	.06115	.01789	.16893	.72242
#1	4882.0	7823.9	90055.	10518.
#2	4886.2	7825.9	89840.	10626.

Sample Name: 480-45473-E-5-A Acquired: 9/12/2013 2:32:17 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00057	1.0320	-.00001	.02068	.29479	-.00006	68.559	.00005	.00008
Stddev	.00047	.0222	.00111	.00019	.00009	.00005	.024	.00005	.00000
%RSD	81.813	2.1507	20476.	.91367	.03136	82.713	.03454	97.543	1.9146

#1	.00024	1.0476	-.00079	.02081	.29486	-.00009	68.576	.00008	.00008
#2	.00090	1.0163	.00078	.02054	.29473	-.00002	68.542	.00001	.00008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00049	.00006	.08891	1.8598	2.0418	.00284	.09400	.00256	.00243
Stddev	.00028	.00005	.00160	.0241	.0153	.00034	.00438	.00004	.00011
%RSD	56.656	86.498	1.7946	1.2982	.74867	12.000	4.6551	1.7151	4.5299

#1	.00029	.00009	.09004	1.8428	2.0310	.00309	.09091	.00259	.00251
#2	.00069	.00002	.08779	1.8769	2.0526	.00260	.09710	.00253	.00235

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00523	7.3943	.00228	-.00158	4.163	-.00117	-.00001	4.6339	-.00025
Stddev	.00013	.0351	.00034	.00184	.001	.00030	.00279	.0084	.00023
%RSD	2.3929	.47518	14.810	116.99	.0268	25.534	47880.	.18089	93.007

#1	.00532	7.3695	.00204	-.00288	4.162	-.00138	-.00198	4.6280	-.00009
#2	.00514	7.4191	.00252	-.00027	4.164	-.00096	.00197	4.6399	-.00042

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.48947	.00467	-.00052	.00264	.00020
Stddev	.00029	.00007	.00003	.00015	.00041
%RSD	.05837	1.4811	4.9983	5.8245	200.45

#1	.48926	.00472	-.00050	.00254	.00050
#2	.48967	.00462	-.00053	.00275	-.00009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4700.7	7677.3	87347.	10464.
Stddev	8.7	4.4	139.	5.
%RSD	.18545	.05683	.15891	.04482

#1	4706.9	7680.4	87249.	10467.
#2	4694.6	7674.3	87445.	10461.

Sample Name: 480-45473-E-6-A Acquired: 9/12/2013 2:35:06 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00076	.34666	-.00006	.01240	.00646	-.00004	21.478	.00011	.00221
Stddev	.00135	.01305	.00010	.00004	.00002	.00002	.098	.00003	.00007
%RSD	178.29	3.7641	150.90	.32346	.33460	52.710	.45809	31.324	3.2825

#1	-.00020	.35588	-.00013	.01237	.00647	-.00006	21.409	.00008	.00226
#2	.00171	.33743	.00000	.01243	.00644	-.00003	21.548	.00013	.00216

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00089	.00021	.47193	.91135	.95315	.00188	5.8278	.00688	.00688
Stddev	.00026	.00003	.00056	.03161	.00407	.00035	.0109	.00003	.00043
%RSD	29.137	12.216	.11926	3.4683	.42660	18.806	.18667	.37610	6.2702

#1	.00070	.00023	.47233	.88900	.95027	.00213	5.8201	.00689	.00718
#2	.00107	.00019	.47153	.93370	.95602	.00163	5.8355	.00686	.00657

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00010	15.144	.00015	-.00466	2.798	-.00213	-.00103	10.016	-.00020
Stddev	.00009	.055	.00006	.00029	.002	.00148	.00074	.087	.00027
%RSD	94.098	.36498	41.779	6.1464	.0641	69.729	72.143	.87224	136.36

#1	.00016	15.105	.00011	-.00446	2.799	-.00108	-.00156	9.9544	-.00038
#2	.00003	15.183	.00020	-.00486	2.797	-.00318	-.00051	10.078	-.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.10886	.01961	-.00135	.00078	.00556
Stddev	.00014	.00013	.00169	.00015	.00020
%RSD	.13166	.67862	125.72	18.695	3.5418

#1	.10876	.01970	-.00015	.00089	.00542
#2	.10896	.01951	-.00254	.00068	.00570

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4794.7	7776.3	88325.	10467.
Stddev	1.9	8.6	49.	29.
%RSD	.03964	.11047	.05534	.28131

#1	4793.4	7770.2	88360.	10487.
#2	4796.1	7782.4	88291.	10446.

Sample Name: 480-45473-E-7-A Acquired: 9/12/2013 2:37:55 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	.03493	-.00233	.00883	.00356	-.00006	30.059	-.00000	-.00004
Stddev	.00020	.01795	.00071	.00028	.00001	.00000	.078	.00003	.00005
%RSD	134.94	51.389	30.575	3.1797	.15959	2.2137	.25951	4641.6	129.47

#1	.00001	.04762	-.00284	.00863	.00356	-.00006	30.003	-.00002	-.00000
#2	.00029	.02224	-.00183	.00902	.00357	-.00006	30.114	.00002	-.00007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00068	.00124	.00541	1.1203	1.0694	.00124	8.3493	.00589	.00566
Stddev	.00018	.00001	.00086	.0089	.0028	.00069	.0280	.00002	.00056
%RSD	26.626	.59389	15.881	.79176	.26145	55.745	.33504	.31174	9.9212

#1	.00081	.00123	.00481	1.1266	1.0675	.00075	8.3691	.00587	.00526
#2	.00055	.00124	.00602	1.1141	1.0714	.00173	8.3295	.00590	.00605

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00008	3.9097	-.00040	-.00299	3.482	-.00156	-.00026	6.3160	-.00039
Stddev	.00007	.0028	.00026	.00132	.015	.00082	.00129	.0207	.00024
%RSD	90.075	.07121	64.459	44.316	.4384	52.592	496.06	.32817	62.547

#1	.00003	3.9078	-.00022	-.00393	3.493	-.00213	.00065	6.3013	-.00022
#2	.00014	3.9117	-.00059	-.00205	3.471	-.00098	-.00117	6.3306	-.00056

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.08352	.00072	-.00074	.00064	.00622
Stddev	.00021	.00003	.00040	.00005	.00023
%RSD	.25281	3.4773	54.095	7.2319	3.7645

#1	.08338	.00074	-.00102	.00067	.00639
#2	.08367	.00070	-.00046	.00060	.00606

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4792.6	7751.3	87967.	10428.
Stddev	1.1	6.5	86.	41.
%RSD	.02263	.08416	.09782	.39565

#1	4791.8	7755.9	87906.	10458.
#2	4793.4	7746.7	88027.	10399.

Sample Name: 480-45473-E-8-A Acquired: 9/12/2013 2:40:43 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00106	.05265	.00132	.01146	.01758	-0.00000	49.800	.00013	-0.00006
Stddev	.00007	.00713	.00028	.00026	.00004	.00001	.254	.00012	.00001
%RSD	7.0247	13.541	21.369	2.2998	.22525	490.68	.50910	96.024	12.146

#1	.00112	.04761	.00152	.01127	.01755	.00001	49.620	.00004	-.00007
#2	.00101	.05769	.00112	.01164	.01761	-.00001	49.979	.00021	-.00006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00148	.00030	.02453	1.3000	1.3556	.00241	23.839	.00053	.00047
Stddev	.00024	.00005	.00058	.0233	.0129	.00019	.011	.00004	.00050
%RSD	15.992	18.212	2.3497	1.7928	.95475	7.9074	.04663	7.7175	104.88

#1	.00132	.00034	.02494	1.2835	1.3465	.00228	23.831	.00050	.00012
#2	.00165	.00026	.02413	1.3165	1.3648	.00255	23.847	.00056	.00082

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00032	6.2355	-0.00001	-0.00449	3.880	-0.00079	-0.00394	9.4266	-0.00009
Stddev	.00010	.0032	.00027	.00018	.018	.00024	.00436	.0401	.00010
%RSD	31.612	.05111	2725.6	4.1064	.4519	30.194	110.85	.42502	107.56

#1	.00039	6.2333	.00018	-.00462	3.892	-.00096	-.00085	9.3983	-.00002
#2	.00025	6.2378	-.00020	-.00436	3.868	-.00062	-.00702	9.4549	-.00017

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.25161	.00074	-0.00267	.00132	.00223
Stddev	.00055	.00015	.00007	.00020	.00008
%RSD	.21739	19.786	2.7389	14.988	3.7093

#1	.25123	.00084	-.00262	.00118	.00229
#2	.25200	.00063	-.00272	.00146	.00217

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4660.8	7644.2	87426.	10484.
Stddev	3.2	13.5	73.	38.
%RSD	.06787	.17612	.08376	.36500

#1	4658.6	7634.7	87374.	10511.
#2	4663.0	7653.7	87478.	10457.

Sample Name: CCV Acquired: 9/12/2013 2:43:33 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49127	24.506	.49719	.47851	.48782	.50781	24.649	.48026	.49124	.49945	.48547	23.991
Stddev	.00031	.046	.00356	.00087	.00028	.00088	.019	.00245	.00058	.00109	.00020	.055
%RSD	.06396	.18736	.71595	.18170	.05804	.17239	.07508	.51039	.11768	.21802	.04021	.23112

#1	.49104	24.474	.49971	.47913	.48802	.50843	24.662	.48200	.49165	.50022	.48533	24.030
#2	.49149	24.539	.49468	.47790	.48762	.50719	24.636	.47853	.49083	.49868	.48561	23.951

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.502	26.051	.48367	24.135	.50625	.48111	.48159	23.920	.50081	.49650	25.11	.50419
Stddev	.005	.212	.00039	.082	.00170	.00356	.00218	.055	.00170	.00195	.02	.00097
%RSD	.01943	.81270	.08017	.34051	.33572	.73948	.45315	.23165	.33867	.39297	.0822	.19264

#1	24.498	26.201	.48340	24.193	.50745	.47860	.48314	23.881	.50201	.49512	25.10	.50488
#2	24.505	25.901	.48395	24.077	.50505	.48363	.48005	23.959	.49961	.49788	25.12	.50351

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48643	24.231	.48951	.48879	.48253	.49790	.48033	.49355
Stddev	.00183	.053	.00332	.00023	.00069	.00084	.00018	.00408
%RSD	.37709	.21765	.67752	.04765	.14299	.16823	.03767	.82687

#1	.48773	24.268	.49185	.48863	.48301	.49849	.48020	.49643
#2	.48514	24.193	.48716	.48895	.48204	.49731	.48045	.49066

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4593.9	7750.2	87337.	10513.
Stddev	3.0	6.8	19.	27.
%RSD	.06621	.08752	.02155	.25653
#1	4596.1	7745.4	87350.	10494.
#2	4591.8	7755.0	87323.	10532.

Sample Name: CCB Acquired: 9/12/2013 2:46:20 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00059	.02521	-.00010	-.00026	.00011	.00001	.00312	.00013	.00006	.00054	-.00084	.00342
Stddev	.00084	.00507	.00167	.00028	.00002	.00003	.00193	.00007	.00001	.00011	.00007	.00110
%RSD	143.36	20.108	1612.7	108.08	18.530	495.64	61.678	49.976	22.424	20.706	8.0115	32.036

#1	-.00001	.02879	.00108	-.00006	.00013	-.00002	.00448	.00018	.00007	.00046	-.00089	.00420
#2	.00118	.02162	-.00129	-.00046	.00010	.00003	.00176	.00009	.00005	.00062	-.00080	.00265

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.06993	.00294	-.00078	-.00017	.00017	.00049	.00021	-.00779	-.00046	-.00087	F .0078	-.00085
Stddev	.00905	.00018	.00070	.00209	.00003	.00009	.00031	.00297	.00001	.00081	.0002	.00121
%RSD	12.946	6.0479	90.716	1201.1	17.019	18.112	148.52	38.139	1.7691	92.265	2.028	142.32

#1	.06353	.00306	-.00028	-.00165	.00019	.00043	.00043	-.00989	-.00046	-.00144	.0077	-.00170
#2	.07633	.00281	-.00127	.00130	.00015	.00056	-.00001	-.00569	-.00047	-.00030	.0079	.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00096	.03170	.00028	.00014	.00033	-.00009	.00032	-.00051
Stddev	.00043	.00433	.00037	.00010	.00011	.00187	.00014	.00031
%RSD	44.593	13.648	132.50	70.293	31.868	1991.4	44.672	60.352

#1	-.00127	.02864	.00054	.00021	.00041	.00123	.00043	-.00073
#2	-.00066	.03476	.00002	.00007	.00026	-.00142	.00022	-.00030

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4986.0	7885.6	89915.	10397.
Stddev	6.3	15.7	225.	2.
%RSD	.12573	.19847	.24999	.01831
#1	4981.6	7874.5	89756.	10396.
#2	4990.5	7896.7	90074.	10398.

Sample Name: 480-45479-A-1-A Acquired: 9/12/2013 2:49:12 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00090	.31796	.00092	.10637	.02232	-0.00000	33.982	.00058	.00044
Stddev	.00016	.02183	.00110	.00048	.00016	.00004	.007	.00005	.00026
%RSD	17.641	6.8643	120.20	.44853	.70879	12937.	.02152	8.8245	58.626

#1	.00079	.30253	.00169	.10603	.02221	.00003	33.977	.00061	.00062
#2	.00101	.33340	.00014	.10671	.02244	-0.00003	33.987	.00054	.00026

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00435	.08358	1.5792	43.445	44.942	.00248	12.442	.09528	.09242
Stddev	.00004	.00013	.0082	.004	.226	.00037	.028	.00023	.00021
%RSD	.93443	.15801	.51998	.00882	.50387	14.937	.22527	.24225	.22820

#1	.00438	.08367	1.5734	43.448	45.102	.00222	12.461	.09544	.09257
#2	.00433	.08349	1.5850	43.442	44.782	.00274	12.422	.09511	.09227

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00177	119.95	.00487	.00084	F 20.21	-0.00147	.00202	1.4732	.00501
Stddev	.00023	.13	.00016	.00077	.08	.00270	.00161	.0065	.00039
%RSD	12.793	.10893	3.2682	92.310	.3725	183.66	79.532	.43937	7.8298

#1	.00161	119.86	.00476	.00138	20.26	.00044	.00316	1.4686	.00474
#2	.00193	120.05	.00499	.00029	20.15	-0.00338	.00089	1.4778	.00529

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.14790	.00928	-.00264	.00077	.18501
Stddev	.00005	.00008	.00275	.00014	.00028
%RSD	.03619	.87497	104.18	17.522	.15133

#1	.14786	.00923	-.00069	.00087	.18481
#2	.14794	.00934	-.00458	.00068	.18521

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4422.2	7417.0	84329.	10567.
Stddev	10.4	1.7	61.	3.
%RSD	.23612	.02255	.07186	.03079

#1	4414.8	7415.8	84372.	10565.
#2	4429.6	7418.2	84286.	10569.

Sample Name: 480-45479-A-2-A Acquired: 9/12/2013 2:52:06 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00024	.07430	.00142	.04331	.01260	.00002	18.989	.02191	-.00002
Stddev	.00108	.00316	.00133	.00019	.00001	.00000	.085	.00005	.00011
%RSD	442.22	4.2524	94.082	.43237	.10881	28.309	.44872	.21420	469.48

#1	-.00052	.07207	.00047	.04318	.01259	.00002	18.928	.02187	.00005
#2	.00101	.07654	.00236	.04345	.01261	.00001	19.049	.02194	-.00010

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00097	.03189	.03664	4.0425	4.5703	.00069	5.7327	.00087	.00070
Stddev	.00009	.00012	.00013	.0265	.0662	.00058	.0241	.00005	.00051
%RSD	9.2178	.38695	.35009	.65437	1.4494	84.401	.42096	5.1946	73.493

#1	.00104	.03197	.03673	4.0238	4.5235	.00109	5.7498	.00090	.00033
#2	.00091	.03180	.03655	4.0612	4.6171	.00028	5.7156	.00084	.00106

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00254	39.646	.00009	.00224	F 13.54	-.00021	-.00034	.47635	.00017
Stddev	.00008	.040	.00014	.00105	.02	.00065	.00110	.01796	.00003
%RSD	3.3415	.10044	148.89	47.102	.1398	305.36	327.79	3.7709	15.013

#1	.00248	39.618	-.00000	.00149	13.53	-.00068	-.00112	.48905	.00016
#2	.00260	39.674	.00019	.00298	13.56	.00025	.00044	.46365	.00019

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.09958	.00079	-.00283	.00051	.64736
Stddev	.00000	.00001	.00038	.00030	.00004
%RSD	.00001	1.0927	13.455	58.493	.00637

#1	.09958	.00080	-.00310	.00072	.64739
#2	.09958	.00079	-.00256	.00030	.64733

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4698.7	7660.0	86651.	10428.
Stddev	4.7	4.5	12.	91.
%RSD	.09911	.05816	.01407	.87280

#1	4702.0	7663.1	86660.	10493.
#2	4695.4	7656.8	86642.	10364.

Sample Name: 480-45481-F-1-A Acquired: 9/12/2013 2:54:53 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00134	.04893	.04205	.02138	.03212	-0.00007	32.010	.00015	.00632
Stddev	.00063	.02268	.00204	.00028	.00005	.00007	.053	.00008	.00004
%RSD	47.346	46.347	4.8522	1.3021	.16248	100.01	.16698	54.107	.55764

#1	.00179	.03290	.04061	.02118	.03215	-0.00002	31.972	.00021	.00630
#2	.00089	.06497	.04349	.02157	.03208	-0.00012	32.048	.00009	.00635

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00114	.10400	10.432	8.5559	9.0717	.00429	7.8447	2.9718	2.7708
Stddev	.00043	.00004	.003	.0183	.0807	.00030	.0057	.0029	.0012
%RSD	37.662	.03397	.03299	.21403	.88977	6.9316	.07242	.09905	.04447

#1	.00084	.10397	10.430	8.5689	9.1288	.00450	7.8407	2.9739	2.7699
#2	.00145	.10402	10.435	8.5430	9.0146	.00408	7.8488	2.9697	2.7716

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00133	12.150	.01342	.01790	F 33.10	-0.00050	-0.00068	10.676	.00003
Stddev	.00007	.006	.00054	.00022	.07	.00048	.00027	.006	.00049
%RSD	5.4028	.05031	4.0415	1.2238	.2081	97.424	39.130	.06025	1643.1

#1	.00128	12.155	.01380	.01805	33.05	-0.00084	-0.00049	10.680	.00038
#2	.00138	12.146	.01303	.01774	33.15	-0.00015	-0.00087	10.671	-0.00032

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.18621	.00047	.00054	.00127	.46812
Stddev	.00009	.00009	.00035	.00016	.00575
%RSD	.04631	19.627	64.890	12.628	1.2290

#1	.18627	.00040	.00029	.00139	.47219
#2	.18615	.00053	.00079	.00116	.46405

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4731.0	7705.1	88036.	10450.
Stddev	6.0	6.9	321.	23.
%RSD	.12580	.08920	.36449	.21832
#1	4735.2	7710.0	87809.	10434.
#2	4726.8	7700.2	88263.	10466.

Sample Name: 480-45481-F-2-A Acquired: 9/12/2013 2:57:44 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00016	.03692	.00209	.02072	.00368	-.00007	30.657	.00008	.00080
Stddev	.00057	.03680	.00001	.00051	.00000	.00000	.070	.00005	.00012
%RSD	346.80	99.685	.41790	2.4583	.07007	5.9866	.22784	57.221	14.727

#1	.00056	.06294	.00209	.02108	.00368	-.00007	30.607	.00005	.00072
#2	-.00024	.01089	.00208	.02036	.00368	-.00006	30.706	.00012	.00088

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00072	.00074	.02236	16.075	18.267	.00439	7.7933	.00236	.00208
Stddev	.00026	.00015	.00081	.017	.078	.00030	.0213	.00003	.00044
%RSD	36.447	20.546	3.6227	.10361	.42693	6.8267	.27283	1.3094	21.298

#1	.00054	.00063	.02179	16.063	18.323	.00417	7.7782	.00238	.00239
#2	.00091	.00085	.02294	16.087	18.212	.00460	7.8083	.00234	.00177

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00159	59.690	.00889	-.00384	F 38.40	-.00035	-.00053	8.5334	-.00056
Stddev	.00011	.040	.00028	.00088	.04	.00122	.00198	.0246	.00008
%RSD	6.7132	.06781	3.1553	22.873	.0938	345.86	374.20	.28801	15.053

#1	.00167	59.661	.00869	-.00446	38.37	.00051	.00087	8.5160	-.00050
#2	.00152	59.719	.00909	-.00322	38.42	-.00122	-.00193	8.5508	-.00062

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.16563	.00035	.00104	.00020	.01167
Stddev	.00017	.00004	.00240	.00004	.00027
%RSD	.10014	10.864	229.95	19.500	2.3235

#1	.16574	.00032	.00274	.00017	.01148
#2	.16551	.00038	-.00065	.00023	.01186

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4609.5	7631.3	86206.	10486.
Stddev	4.6	5.8	110.	42.
%RSD	.09902	.07592	.12807	.40261

#1	4612.7	7635.4	86284.	10516.
#2	4606.3	7627.2	86128.	10456.

Sample Name: 480-45480-C-1-A Acquired: 9/12/2013 3:00:37 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00069	.04735	.00447	.00612	.00509	-.00009	28.777	.00018	.00031
Stddev	.00008	.00867	.00009	.00044	.00001	.00002	.119	.00001	.00003
%RSD	12.038	18.311	1.9548	7.1675	.19022	20.764	.41303	3.2565	10.787

#1	.00075	.04122	.00453	.00581	.00509	-.00010	28.861	.00019	.00029
#2	.00063	.05348	.00441	.00643	.00510	-.00007	28.693	.00018	.00034

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00025	-.00014	.01639	3.3829	3.5724	.00330	6.2475	.06403	.05941
Stddev	.00047	.00014	.00010	.0528	.0295	.00118	.0147	.00005	.00027
%RSD	188.33	100.78	.58830	1.5615	.82479	35.766	.23567	.08207	.46282

#1	.00058	-.00004	.01646	3.4203	3.5932	.00246	6.2371	.06400	.05922
#2	-.00008	-.00025	.01632	3.3456	3.5515	.00413	6.2580	.06407	.05961

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00499	14.729	.00001	-.00259	9.438	-.00143	-.00069	8.5690	-.00035
Stddev	.00018	.017	.00019	.00128	.008	.00142	.00047	.0190	.00019
%RSD	3.6208	.11410	3035.7	49.317	.0857	99.162	68.035	.22179	52.789

#1	.00511	14.740	-.00013	-.00349	9.432	-.00243	-.00102	8.5824	-.00022
#2	.00486	14.717	.00014	-.00169	9.443	-.00043	-.00036	8.5556	-.00049

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.13110	.00017	-.00087	.00077	.00172
Stddev	.00020	.00025	.00102	.00006	.00000
%RSD	.15147	143.76	116.85	8.3482	.22026

#1	.13124	-.00000	-.00015	.00082	.00171
#2	.13096	.00035	-.00159	.00073	.00172

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4755.9	7701.0	87678.	10496.
Stddev	9.9	16.3	153.	59.
%RSD	.20791	.21135	.17470	.56419

#1	4748.9	7689.5	87787.	10455.
#2	4762.9	7712.5	87570.	10538.

Sample Name: 480-45480-C-2-A Acquired: 9/12/2013 3:03:25 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00072	.03446	.00404	.00628	.00588	-.00006	28.260	.00017	.00020
Stddev	.00004	.00064	.00009	.00008	.00003	.00004	.052	.00000	.00007
%RSD	5.3621	1.8684	2.2495	1.2355	.44299	73.241	.18314	.62182	32.148

#1	.00075	.03492	.00398	.00634	.00590	-.00003	28.224	.00016	.00016
#2	.00069	.03401	.00411	.00623	.00587	-.00009	28.297	.00017	.00025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00049	-.00026	.03674	3.2975	3.5617	.00239	6.1105	.05639	.05231
Stddev	.00001	.00015	.00118	.0100	.0061	.00065	.0098	.00014	.00001
%RSD	2.0946	56.111	3.2131	.30388	.17019	27.279	.16096	.24574	.02277

#1	.00048	-.00016	.03757	3.2904	3.5660	.00285	6.1035	.05649	.05232
#2	.00050	-.00037	.03590	3.3046	3.5574	.00193	6.1174	.05629	.05230

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00490	14.403	.00016	-.00258	9.256	-.00131	-.00228	8.4222	-.00037
Stddev	.00021	.030	.00022	.00015	.040	.00017	.00190	.0207	.00007
%RSD	4.2018	.20749	141.85	5.9000	.4291	13.112	83.337	.24600	18.842

#1	.00505	14.381	.00032	-.00248	9.284	-.00119	-.00362	8.4075	-.00032
#2	.00476	14.424	-.00000	-.00269	9.228	-.00143	-.00094	8.4368	-.00042

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.12908	.00042	-.00208	.00066	.00290
Stddev	.00032	.00005	.00195	.00011	.00003
%RSD	.24749	12.678	93.582	17.117	1.1015

#1	.12885	.00046	-.00070	.00073	.00288
#2	.12930	.00038	-.00346	.00058	.00292

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4752.3	7693.9	87845.	10436.
Stddev	5.1	11.7	24.	7.
%RSD	.10732	.15154	.02749	.06339

#1	4748.7	7685.7	87862.	10432.
#2	4755.9	7702.2	87828.	10441.

Sample Name: 480-45490-A-1-A Acquired: 9/12/2013 3:06:13 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	.02974	.00105	.00797	.00380	-0.00007	22.675	.00014	-0.00003
Stddev	.00001	.00020	.00063	.00012	.00003	.00004	.032	.00003	.00010
%RSD	8.7984	.68385	60.085	1.4744	.80190	59.318	.14301	18.572	356.62

#1	.00015	.02960	.00150	.00805	.00382	-0.00004	22.652	.00016	-.00010
#2	.00014	.02988	.00060	.00789	.00377	-0.00009	22.698	.00012	.00004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00040	.10504	.01093	1.1265	1.1438	.02515	3.2943	.05487	.05108
Stddev	.00032	.00043	.00343	.0198	.0002	.00089	.0097	.00010	.00016
%RSD	79.475	.40986	31.330	1.7542	.01572	3.5199	.29287	.17840	.30501

#1	.00063	.10535	.00851	1.1125	1.1439	.02577	3.2875	.05494	.05119
#2	.00018	.10474	.01336	1.1404	1.1436	.02452	3.3011	.05480	.05097

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00109	16.200	.00072	.06604	5.004	-0.00192	-0.00371	11.554	.00004
Stddev	.00013	.016	.00001	.00004	.008	.00035	.00074	.030	.00004
%RSD	12.146	.09813	.97450	.06498	.1519	18.315	19.860	.25766	118.21

#1	.00119	16.212	.00072	.06601	4.999	-0.00217	-.00423	11.575	.00007
#2	.00100	16.189	.00071	.06607	5.010	-0.00167	-.00318	11.533	.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20731	.00033	-0.00058	.00040	.07423
Stddev	.00004	.00002	.00086	.00016	.00017
%RSD	.02160	5.1560	147.48	38.808	.22736

#1	.20734	.00034	-.00119	.00029	.07411
#2	.20727	.00032	.00002	.00051	.07435

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4780.1	7721.5	88037.	10468.
Stddev	6.1	4.6	9.	11.
%RSD	.12739	.05994	.01004	.10188

#1	4784.4	7718.3	88043.	10476.
#2	4775.7	7724.8	88031.	10461.

Sample Name: MB 480-138328/1-A Acquired: 9/12/2013 3:09:00 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00083	.04705	.00014	.00306	.00005	.00001	.03744	.00006	.00005
Stddev	.00017	.01191	.00021	.00009	.00001	.00001	.00001	.00003	.00012
%RSD	20.061	25.304	151.64	2.7897	25.689	110.59	.03944	52.903	256.35

#1	.00071	.03864	.00029	.00300	.00006	.00001	.03745	.00004	.00013
#2	.00095	.05547	-.00001	.00312	.00004	.00000	.03743	.00008	-.00004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00017	-.00095	.00351	.10167	.00045	-.00064	-.00276	.00007	.00009
Stddev	.00008	.00001	.00108	.03049	.00024	.00001	.00358	.00000	.00033
%RSD	43.760	.59300	30.763	29.986	53.204	1.5162	129.55	5.5175	352.95

#1	.00023	-.00095	.00428	.12323	.00062	-.00063	-.00530	.00007	-.00014
#2	.00012	-.00096	.00275	.08012	.00028	-.00064	-.00023	.00008	.00033

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00023	.00098	-.00024	-.00110	F .0035	-.00198	-.00158	.00009	-.00005
Stddev	.00020	.00121	.00009	.00041	.0036	.00088	.00075	.00045	.00003
%RSD	84.643	123.93	39.480	37.094	103.2	44.521	47.387	503.06	60.637

#1	.00037	.00184	-.00017	-.00139	.0060	-.00136	-.00105	-.00023	-.00003
#2	.00009	.00012	-.00030	-.00081	.0009	-.00260	-.00211	.00041	-.00007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass
High Limit					.0022				
Low Limit					-.0040				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00043	.00033	-.00247	.00023	.00023
Stddev	.00000	.00007	.00052	.00014	.00009
%RSD	.02107	20.705	21.215	62.385	37.190

#1	.00043	.00038	-.00210	.00033	.00029
#2	.00043	.00028	-.00284	.00013	.00017

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4969.0	7872.3	90759.	10598.
Stddev	3.3	8.2	502.	23.
%RSD	.06718	.10427	.55342	.21942

#1	4966.6	7866.5	91114.	10615.
#2	4971.4	7878.1	90404.	10582.

Sample Name: LCS 480-138328/2-A Acquired: 9/12/2013 3:11:52 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05193	10.179	.19877	.20073	.20345	.20699	9.9261	.19238	.19628
Stddev	.00082	.005	.00153	.00012	.00017	.00055	.0104	.00050	.00036
%RSD	1.5863	.05181	.77181	.05958	.08159	.26507	.10449	.25839	.18504

#1	.05251	10.175	.19986	.20064	.20357	.20660	9.9334	.19273	.19654
#2	.05135	10.183	.19769	.20081	.20334	.20737	9.9187	.19203	.19602

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20182	.19654	9.8390	9.8922	10.238	.19818	9.9325	.19998	.18613
Stddev	.00050	.00023	.00086	.0444	.038	.00020	.0195	.00041	.00020
%RSD	.24730	.11469	.08765	.44870	.37117	.10016	.19675	.20259	.10799

#1	.20217	.19638	9.8329	9.8608	10.265	.19832	9.9463	.20027	.18627
#2	.20146	.19670	9.8451	9.9236	10.211	.19804	9.9187	.19970	.18599

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19511	9.5618	.19667	.19420	F .0027	.19992	.19319	9.9936	.18700
Stddev	.00000	.0046	.00057	.00052	.0015	.00163	.00105	.0006	.00092
%RSD	.00168	.04773	.28921	.26831	55.51	.81402	.54211	.00611	.49205

#1	.19510	9.5650	.19707	.19457	.0016	.20107	.19393	9.9941	.18765
#2	.19511	9.5586	.19627	.19383	.0038	.19877	.19245	9.9932	.18635

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					11.50				
Low Limit					8.500				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.19885	.18269	.19875	.19201	.19377
Stddev	.00007	.00007	.00124	.00072	.00081
%RSD	.03683	.03617	.62504	.37496	.41652

#1	.19880	.18264	.19963	.19252	.19434
#2	.19890	.18274	.19787	.19150	.19320

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4745.5	7795.1	88351.	10406.
Stddev	13.9	13.9	172.	13.
%RSD	.29239	.17888	.19468	.12080

#1	4735.7	7785.2	88229.	10397.
#2	4755.3	7804.9	88472.	10415.

Sample Name: 480-45427-D-1-A Acquired: 9/12/2013 3:14:39 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0001	.04515	.00276	.24368	.01455	-0.0001	271.97	.00033	.00020
Stddev	.00078	.01469	.00154	.00010	.00001	.00010	2.53	.00008	.00012
%RSD	9772.4	32.548	55.945	.04286	.09724	851.38	.93060	23.869	61.794

#1	-0.00056	.03476	.00167	.24375	.01454	.00006	273.76	.00038	.00011
#2	.00054	.05554	.00385	.24361	.01456	-0.00008	270.18	.00027	.00029

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00100	-0.00029	.07676	6.4849	9.1056	.03447	84.194	.10114	.09937
Stddev	.00021	.00015	.00112	.0132	.0434	.00179	.016	.00022	.00009
%RSD	20.635	51.546	1.4588	.20387	.47636	5.2061	.01850	.21587	.09091

#1	.00085	-0.00018	.07755	6.4755	9.0749	.03320	84.183	.10099	.09930
#2	.00115	-0.00039	.07597	6.4942	9.1362	.03574	84.205	.10130	.09943

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00037	39.954	.00250	-0.00231	F 295.8	-0.00022	-0.00087	6.4031	-0.00025
Stddev	.00030	.012	.00024	.00196	.7	.00072	.00344	.0147	.00021
%RSD	81.217	.02974	9.5865	84.855	.2411	328.66	395.94	.22978	82.007

#1	.00058	39.946	.00267	-0.00370	295.3	-0.00073	-0.00330	6.4135	-0.00011
#2	.00016	39.963	.00233	-0.00093	296.3	.00029	.00156	6.3927	-0.00040

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.1569	.00216	-0.00036	.00003	.00018
Stddev	.0028	.00047	.00072	.00022	.00019
%RSD	.23882	21.542	198.10	832.78	105.94

#1	1.1549	.00249	-0.00087	-0.00013	.00005
#2	1.1588	.00184	.00014	.00018	.00032

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4209.2	7156.6	81866.	10182.
Stddev	6.5	7.8	117.	15.
%RSD	.15480	.10915	.14285	.14619

#1	4204.6	7151.1	81949.	10193.
#2	4213.8	7162.2	81784.	10172.

Sample Name: CCV Acquired: 9/12/2013 3:17:38 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49264	24.651	.49728	.47905	.49361	.50919	24.696	.47816	.48978	.49757	.48631	24.040
Stddev	.00050	.049	.00151	.00006	.00065	.00044	.050	.00023	.00048	.00047	.00115	.018
%RSD	.10054	.19960	.30329	.01194	.13133	.08589	.20089	.04844	.09728	.09355	.23583	.07680

#1	.49299	24.617	.49835	.47909	.49315	.50950	24.661	.47800	.49011	.49724	.48712	24.053
#2	.49229	24.686	.49621	.47901	.49407	.50888	24.731	.47833	.48944	.49790	.48550	24.027

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.645	25.406	.48865	23.931	.50491	.47639	.47917	23.864	.49850	.49537	25.28	.51065
Stddev	.060	.044	.00205	.050	.00082	.00331	.00019	.054	.00038	.00111	.01	.00095
%RSD	.24507	.17449	.41952	.21080	.16165	.69413	.04022	.22471	.07525	.22344	.0589	.18618

#1	24.688	25.437	.49010	23.895	.50433	.47872	.47931	23.901	.49877	.49615	25.29	.51132
#2	24.602	25.375	.48720	23.966	.50549	.47405	.47904	23.826	.49824	.49459	25.27	.50998

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48639	24.228	.48159	.49037	.47398	.49720	.47467	.48327
Stddev	.00538	.085	.00188	.00063	.00066	.00121	.00020	.00013
%RSD	1.1064	.35038	.38940	.12796	.13823	.24341	.04238	.02626

#1	.49019	24.168	.48292	.48993	.47352	.49806	.47453	.48318
#2	.48258	24.288	.48027	.49082	.47445	.49635	.47481	.48336

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4575.4	7718.2	87271.	10409.
Stddev	3.3	3.8	133.	27.
%RSD	.07277	.04903	.15265	.26305
#1	4577.8	7720.8	87365.	10428.
#2	4573.1	7715.5	87177.	10389.

Sample Name: CCB Acquired: 9/12/2013 3:20:25 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00024	.02824	-.00031	-.00041	.00010	.00001	.01401	.00008	.00021	.00023	-.00110	.00424
Stddev	.00024	.01481	.00033	.00023	.00000	.00003	.00041	.00002	.00000	.00020	.00068	.00111
%RSD	103.47	52.465	106.59	57.054	.45641	216.56	2.9317	21.542	.93299	88.883	61.967	26.270

#1	.00041	.01776	-.00008	-.00024	.00010	-.00001	.01430	.00009	.00021	.00037	-.00158	.00503
#2	.00006	.03871	-.00055	-.00057	.00010	.00004	.01372	.00007	.00021	.00009	-.00062	.00345

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10916	.00346	-.00088	.00496	.00017	.00073	.00038	-.00643	-.00001	-.00107	F .0188	.00087
Stddev	.01390	.00068	.00084	.00449	.00002	.00004	.00001	.00686	.00005	.00107	.0030	.00105
%RSD	12.734	19.568	95.742	90.409	12.048	5.2389	1.8241	106.81	549.23	99.360	16.14	119.85

#1	.09933	.00394	-.00028	.00814	.00016	.00076	.00038	-.00157	-.00004	-.00032	.0166	.00013
#2	.11899	.00299	-.00147	.00179	.00019	.00070	.00039	-.01128	.00003	-.00183	.0209	.00162

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00027	.01111	-.00026	.00026	.00030	-.00084	.00018	-.00071
Stddev	.00058	.00076	.00039	.00007	.00037	.00092	.00006	.00068
%RSD	214.44	6.8229	150.04	28.124	125.30	109.21	35.236	96.347

#1	.00014	.01058	-.00053	.00020	.00003	-.00149	.00023	-.00119
#2	-.00068	.01165	.00002	.00031	.00056	-.00019	.00014	-.00023

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4969.6	7885.0	89652.	10452.
Stddev	4.3	.8	21.	29.
%RSD	.08673	.00962	.02382	.27565
#1	4966.6	7884.4	89667.	10472.
#2	4972.7	7885.5	89637.	10431.

Sample Name: 480-45427-D-2-A Acquired: 9/12/2013 3:23:18 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00115	.03390	.00206	.23998	.03105	-0.00008	398.77	.00054	.00214
Stddev	.00028	.01298	.00196	.00009	.00008	.00000	1.08	.00002	.00016
%RSD	24.270	38.303	95.385	.03874	.25665	2.0985	.27084	3.7546	7.4900

#1	.00095	.02472	.00345	.23992	.03111	-0.00008	398.01	.00052	.00226
#2	.00134	.04308	.00067	.24005	.03099	-0.00008	399.54	.00055	.00203

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00198	-0.0020	4.1315	8.2323	12.574	.04846	178.76	5.6528	5.7711
Stddev	.00095	.00027	.0030	.0004	.122	.00039	.19	.0121	.0234
%RSD	47.859	131.69	.07363	.00463	.96636	.79871	.10777	.21477	.40532

#1	.00131	-0.00001	4.1293	8.2326	12.660	.04873	178.62	5.6442	5.7545
#2	.00265	-0.00040	4.1337	8.2320	12.488	.04818	178.90	5.6614	5.7876

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00044	80.041	.00558	-0.00229	F 450.1	-0.00106	.00604	8.2838	-0.00022
Stddev	.00010	.327	.00015	.00015	.2	.00077	.00028	.0012	.00039
%RSD	22.828	.40889	2.6352	6.6084	.0359	72.637	4.5898	.01400	178.12

#1	.00037	79.810	.00548	-0.00218	450.2	-0.00051	.00623	8.2830	-0.00050
#2	.00051	80.273	.00568	-0.00240	450.0	-0.00160	.00584	8.2846	.00006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	3.3863	.00214	-0.00004	-0.00009	.00064
Stddev	.0025	.00009	.00009	.00024	.00005
%RSD	.07369	4.2657	245.45	257.82	7.7464

#1	3.3881	.00220	.00003	-0.00027	.00068
#2	3.3846	.00208	-0.00010	.00008	.00061

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3992.8	6918.2	79618.	10177.
Stddev	5.6	1.1	77.	19.
%RSD	.13921	.01519	.09624	.18326

#1	3996.7	6917.4	79672.	10164.
#2	3988.9	6918.9	79564.	10190.

Sample Name: 480-45427-D-3-A Acquired: 9/12/2013 3:26:21 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00027	.08120	.00411	.23880	.01729	-0.00007	268.07	.00034	.00006
Stddev	.00029	.01563	.00087	.00049	.00006	.00004	2.78	.00004	.00016
%RSD	109.07	19.255	21.174	.20374	.35248	54.001	1.0354	10.418	259.76

#1	.00047	.09225	.00350	.23845	.01733	-0.00004	266.11	.00037	.00018
#2	.00006	.07014	.00473	.23914	.01725	-0.00010	270.04	.00032	-0.00005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00109	.00002	.09572	6.4448	9.0209	.03310	83.509	.04893	.04816
Stddev	.00001	.00001	.00185	.0216	.0441	.00083	.044	.00014	.00082
%RSD	.81401	35.639	1.9276	.33439	.48879	2.5067	.05223	.28708	1.7039

#1	.00110	.00002	.09442	6.4296	8.9898	.03251	83.479	.04883	.04758
#2	.00108	.00001	.09703	6.4601	9.0521	.03369	83.540	.04903	.04874

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00072	39.814	.00171	-0.00263	F 294.7	-0.00136	.00143	6.3134	-0.00027
Stddev	.00008	.105	.00005	.00009	.5	.00081	.00231	.0463	.00001
%RSD	10.935	.26313	2.7803	3.2699	.1643	59.817	161.00	.73407	2.0867

#1	.00078	39.740	.00174	-0.00269	294.4	-0.00079	.00307	6.2806	-0.00027
#2	.00067	39.888	.00168	-0.00257	295.0	-0.00194	-0.00020	6.3461	-0.00028

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.1451	.00239	-0.00124	.00012	.00154
Stddev	.0023	.00035	.00004	.00019	.00017
%RSD	.19970	14.710	3.1192	165.00	10.753

#1	1.1435	.00214	-0.00127	.00025	.00166
#2	1.1467	.00264	-0.00122	-0.00002	.00143

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4205.1	7150.8	82330.	10233.
Stddev	2.1	.1	74.	46.
%RSD	.05063	.00131	.08933	.44569

#1	4203.6	7150.8	82278.	10265.
#2	4206.7	7150.7	82382.	10200.

Sample Name: 480-45427-D-4-A Acquired: 9/12/2013 3:29:19 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00078	.06738	.02487	.30799	.02738	-.00008	546.59	.00051	.01623
Stddev	.00004	.01221	.00145	.00012	.00010	.00002	2.15	.00003	.00035
%RSD	5.6596	18.126	5.8486	.03864	.36879	30.729	.39294	5.7629	2.1510

#1	.00075	.07601	.02590	.30808	.02746	-.00010	548.11	.00053	.01648
#2	.00081	.05874	.02384	.30791	.02731	-.00006	545.07	.00049	.01598

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00189	.00009	32.555	11.554	18.121	.20916	254.11	7.5023	7.8188
Stddev	.00017	.00011	.034	.017	.058	.00038	.27	.0164	.0014
%RSD	8.8573	116.48	.10485	.15013	.32119	.18337	.10514	.21902	.01726

#1	.00177	.00002	32.579	11.567	18.163	.20889	253.93	7.5139	7.8179
#2	.00201	.00017	32.531	11.542	18.080	.20943	254.30	7.4907	7.8198

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00136	105.80	.03544	-.00397	F 596.6	-.00197	-.00161	11.022	-.00045
Stddev	.00000	.12	.00063	.00182	.6	.00117	.00100	.046	.00010
%RSD	.08850	.11334	1.7651	45.820	.1062	59.279	62.253	.41421	21.611

#1	.00136	105.89	.03588	-.00269	596.2	-.00114	-.00090	10.990	-.00052
#2	.00136	105.72	.03500	-.00526	597.1	-.00280	-.00232	11.055	-.00038

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	4.1125	.00279	.00154	.00012	.00350
Stddev	.0066	.00074	.00137	.00014	.00073
%RSD	.16046	26.366	88.507	110.52	20.782

#1	4.1078	.00331	.00058	.00022	.00299
#2	4.1171	.00227	.00251	.00003	.00401

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3839.8	6758.9	77791.	10060.
Stddev	2.6	8.5	17.	4.
%RSD	.06899	.12610	.02192	.03782

#1	3841.7	6765.0	77803.	10057.
#2	3837.9	6752.9	77779.	10063.

Sample Name: 480-45417-C-5-A Acquired: 9/12/2013 3:32:28 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00007	.05414	.00570	3.6312	.27986	-0.00008	159.45	.00030	.00405
Stddev	.00024	.00551	.00060	.0078	.00080	.00000	.38	.00008	.00011
%RSD	355.95	10.183	10.542	.21456	.28571	3.8721	.23586	26.841	2.6577

#1	-0.00024	.05804	.00612	3.6367	.28042	-0.00008	159.72	.00036	.00413
#2	.00010	.05024	.00527	3.6257	.27929	-0.00008	159.19	.00025	.00398

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00671	.02242	3.6331	60.217	66.810	.14405	74.752	.80281	.82077
Stddev	.00020	.00044	.0014	.100	1.207	.00013	.159	.00017	.00055
%RSD	2.9695	1.9407	.03823	.16602	1.8067	.09029	.21239	.02069	.06726

#1	.00685	.02273	3.6321	60.288	67.664	.14396	74.864	.80270	.82037
#2	.00657	.02211	3.6341	60.146	65.957	.14414	74.639	.80293	.82116

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00753	445.16	.01393	-0.00315	F 90.98	-0.00203	.00017	10.294	.00025
Stddev	.00005	.45	.00017	.00108	.29	.00005	.00138	.000	.00007
%RSD	.61759	.10203	1.2373	34.173	.3144	2.5105	820.00	.00409	26.108

#1	.00756	444.84	.01405	-0.00239	91.19	-0.00207	.00114	10.293	.00030
#2	.00750	445.48	.01380	-0.00391	90.78	-0.00200	-0.00080	10.294	.00020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.1080	.00146	-0.00154	.00091	.00431
Stddev	.0011	.00054	.00134	.00004	.00044
%RSD	.09528	37.143	87.421	4.6657	10.301

#1	1.1088	.00108	-0.00249	.00094	.00462
#2	1.1073	.00185	-0.00059	.00088	.00399

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3947.3	7016.5	79334.	10373.
Stddev	3.8	8.2	219.	50.
%RSD	.09508	.11695	.27643	.48073

#1	3944.6	7010.7	79179.	10408.
#2	3949.9	7022.3	79489.	10338.

Sample Name: 480-45418-C-1-A Acquired: 9/12/2013 3:35:25 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00090	.05601	.02949	2.4875	.16472	-0.0006	198.57	.00035	.00537
Stddev	.00035	.00962	.00163	.0031	.00038	.00002	.71	.00008	.00002
%RSD	38.925	17.166	5.5143	.12298	.23082	27.339	.35972	21.479	.45219

#1	.00065	.06281	.02834	2.4853	.16499	-0.0005	198.06	.00040	.00539
#2	.00115	.04921	.03064	2.4897	.16445	-0.0008	199.07	.00030	.00536

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01108	.01324	13.694	30.769	40.899	.16866	71.133	3.2220	3.2422
Stddev	.00021	.00011	.043	.081	.104	.00037	.004	.0023	.0133
%RSD	1.9058	.84312	.31524	.26378	.25438	.22185	.00594	.07027	.41036

#1	.01093	.01332	13.663	30.712	40.826	.16840	71.130	3.2204	3.2516
#2	.01123	.01316	13.724	30.827	40.973	.16893	71.136	3.2236	3.2328

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00359	386.68	.01527	-0.00353	F 68.08	-0.00163	.00085	10.581	-0.00010
Stddev	.00004	.08	.00008	.00025	.06	.00135	.00241	.035	.00012
%RSD	.99856	.02146	.53375	7.2089	.0906	82.959	281.89	.33367	118.33

#1	.00362	386.62	.01522	-0.00371	68.04	-0.00067	-0.00085	10.556	-0.00018
#2	.00357	386.74	.01533	-0.00335	68.13	-0.00259	.00256	10.606	-0.00002

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.2718	.00139	.00041	.00105	.00970
Stddev	.0001	.00000	.00249	.00003	.00020
%RSD	.00802	.01228	612.39	3.3015	2.0245

#1	1.2718	.00139	-0.00135	.00107	.00957
#2	1.2717	.00139	.00217	.00102	.00984

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3969.7	7056.8	79415.	10206.
Stddev	.3	10.6	47.	28.
%RSD	.00684	.15060	.05904	.26951

#1	3969.5	7064.3	79382.	10225.
#2	3969.9	7049.3	79448.	10186.

Sample Name: 480-45418-C-5-A Acquired: 9/12/2013 3:38:27 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00070	.04550	.00866	2.3364	.10567	-0.00008	213.22	.00046	.00488
Stddev	.00023	.00816	.00004	.0041	.00017	.00002	.33	.00004	.00012
%RSD	33.151	17.942	.41998	.17677	.15970	22.118	.15509	7.6920	2.5044

#1	.00086	.03973	.00863	2.3335	.10579	-0.00009	213.45	.00044	.00496
#2	.00053	.05127	.00868	2.3393	.10555	-0.00007	212.99	.00049	.00479

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00348	.00210	10.909	19.033	28.061	.24603	72.138	3.3599	3.3678
Stddev	.00022	.00037	.018	.032	.426	.00078	.074	.0032	.0147
%RSD	6.3766	17.795	.16117	.16670	1.5185	.31725	.10290	.09571	.43489

#1	.00364	.00236	10.897	19.010	27.760	.24658	72.086	3.3577	3.3782
#2	.00333	.00184	10.921	19.055	28.363	.24547	72.191	3.3622	3.3575

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00214	348.01	.01406	-0.00445	F 45.95	-0.00125	.00409	11.280	-0.00001
Stddev	.00018	.91	.00014	.00056	.10	.00144	.00124	.002	.00065
%RSD	8.3781	.26207	.96078	12.674	.2269	115.72	30.313	.01502	4867.8

#1	.00227	347.36	.01396	-0.00485	45.88	-0.00226	.00322	11.279	-0.00047
#2	.00202	348.65	.01415	-0.00405	46.03	-0.00023	.00497	11.281	.00045

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.4146	.00107	.00209	.00027	.00680
Stddev	.0006	.00014	.00047	.00016	.00002
%RSD	.03888	13.490	22.521	61.285	.25998

#1	1.4142	.00097	.00242	.00015	.00679
#2	1.4149	.00117	.00175	.00038	.00682

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3980.7	7037.4	79607.	10201.
Stddev	2.3	8.4	246.	19.
%RSD	.05824	.11891	.30849	.18331

#1	3979.1	7043.3	79434.	10214.
#2	3982.3	7031.5	79781.	10188.

Sample Name: 480-45418-C-5-A SD@5 Acquired: 9/12/2013 3:41:30 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00007	.03738	.00205	.47305	.02192	-.00003	43.396	.00015	.00104
Stddev	.00023	.00909	.00160	.00187	.00008	.00006	.136	.00009	.00003
%RSD	334.58	24.324	78.153	.39505	.35156	244.62	.31382	60.144	2.5717

#1	.00023	.03095	.00092	.47437	.02187	.00002	43.492	.00009	.00106
#2	-.00009	.04381	.00319	.47173	.02198	-.00007	43.299	.00021	.00102

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00097	.00002	2.2501	3.7913	4.6801	.04753	14.748	.70167	.66821
Stddev	.00002	.00006	.0108	.0059	.0084	.00049	.017	.00058	.00358
%RSD	1.5596	383.81	.48054	.15487	.17867	1.0234	.11216	.08252	.53516

#1	.00096	.00006	2.2425	3.7872	4.6741	.04787	14.760	.70126	.66568
#2	.00098	-.00003	2.2577	3.7955	4.6860	.04719	14.736	.70208	.67074

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00042	70.454	.00258	-.00098	8.955	.00027	.00008	2.2206	-.00017
Stddev	.00007	.075	.00002	.00009	.006	.00065	.00008	.0025	.00004
%RSD	17.444	.10654	.79709	9.2372	.0657	237.85	101.07	.11174	22.160

#1	.00048	70.507	.00256	-.00105	8.960	.00073	.00014	2.2188	-.00020
#2	.00037	70.401	.00259	-.00092	8.951	-.00019	.00002	2.2223	-.00014

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.28617	.00052	-.00089	.00014	.00160
Stddev	.00025	.00003	.00080	.00013	.00024
%RSD	.08785	5.0807	90.570	92.162	15.026

#1	.28635	.00054	-.00145	.00023	.00177
#2	.28599	.00050	-.00032	.00005	.00143

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4507.8	7537.2	85822.	10483.
Stddev	3.9	22.5	61.	33.
%RSD	.08676	.29889	.07146	.31046

#1	4505.1	7521.2	85779.	10460.
#2	4510.6	7553.1	85865.	10506.

Sample Name: 480-45418-C-5-A PDS Acquired: 9/12/2013 3:44:16 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05587	10.840	.23300	2.4635	.30470	.21843	215.65	.20881	.21824
Stddev	.00048	.083	.00087	.0040	.00027	.00099	1.32	.00065	.00071
%RSD	.86479	.76900	.37172	.16286	.08853	.45532	.61004	.31206	.32597

#1	.05553	10.781	.23239	2.4607	.30490	.21772	214.72	.20835	.21774
#2	.05621	10.899	.23361	2.4664	.30451	.21913	216.58	.20928	.21874

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20536	.21544	20.696	29.294	40.874	.45609	80.364	3.4498	3.4617
Stddev	.00060	.00047	.049	.112	.078	.00009	.059	.0000	.0093
%RSD	.29011	.21789	.23903	.38261	.19128	.02035	.07382	.00126	.26755

#1	.20578	.21577	20.661	29.215	40.819	.45603	80.322	3.4497	3.4682
#2	.20494	.21510	20.731	29.374	40.930	.45616	80.406	3.4498	3.4551

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20276	350.51	.22678	.20781	F 44.43	.21859	.21933	21.669	.19865
Stddev	.00110	.23	.00046	.00043	.20	.00054	.00115	.186	.00129
%RSD	.54179	.06487	.20093	.20761	.4429	.24502	.52404	.85999	.64798

#1	.20198	350.35	.22646	.20811	44.29	.21821	.22015	21.538	.19774
#2	.20353	350.67	.22710	.20750	44.57	.21896	.21852	21.801	.19956

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.5843	.19244	.20695	.20306	.20302
Stddev	.0061	.00010	.00209	.00058	.00061
%RSD	.38510	.05369	1.0085	.28474	.30213

#1	1.5800	.19251	.20547	.20347	.20258
#2	1.5886	.19236	.20842	.20265	.20345

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3937.0	7086.1	80258.	10192.
Stddev	14.3	22.2	88.	47.
%RSD	.36286	.31285	.10987	.46591

#1	3947.1	7101.8	80320.	10225.
#2	3926.9	7070.5	80196.	10158.

Sample Name: 480-45418-C-5-B MS Acquired: 9/12/2013 3:47:12 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05539	10.545	.23264	2.1443	.29849	.21753	216.89	.21100	.22038
Stddev	.00051	.013	.00030	.0043	.00002	.00034	.60	.00033	.00002
%RSD	.92160	.12493	.12762	.19966	.00788	.15471	.27617	.15703	.00865

#1	.05503	10.554	.23285	2.1473	.29850	.21729	217.31	.21123	.22037
#2	.05575	10.536	.23243	2.1413	.29847	.21777	216.47	.21076	.22040

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.21150	.21785	22.834	27.195	37.228	.44666	78.517	3.7980	3.8370
Stddev	.00040	.00010	.037	.055	.202	.00139	.055	.0053	.0006
%RSD	.18962	.04734	.16247	.20185	.54326	.31131	.06987	.13962	.01518

#1	.21178	.21792	22.860	27.234	37.371	.44764	78.478	3.7942	3.8366
#2	.21121	.21778	22.808	27.156	37.085	.44567	78.556	3.8017	3.8374

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20600	348.45	.22765	.20896	F 46.85	.22126	.22033	21.511	.20023
Stddev	.00019	1.09	.00033	.00009	.03	.00083	.00186	.090	.00072
%RSD	.09041	.31228	.14314	.04242	.0677	.37648	.84322	.41716	.35969

#1	.20613	349.22	.22742	.20890	46.88	.22185	.22164	21.448	.20074
#2	.20586	347.68	.22788	.20903	46.83	.22067	.21901	21.575	.19972

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.5164	.19268	.20501	.20334	.20600
Stddev	.0000	.00027	.00199	.00050	.00069
%RSD	.00091	.13813	.96919	.24786	.33583

#1	1.5164	.19249	.20360	.20370	.20649
#2	1.5164	.19286	.20641	.20298	.20551

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3948.2	7104.3	80101.	10235.
Stddev	5.2	9.4	35.	23.
%RSD	.13150	.13226	.04321	.22104

#1	3944.6	7097.6	80125.	10219.
#2	3951.9	7110.9	80076.	10251.

Sample Name: 480-45418-C-5-C MSD Acquired: 9/12/2013 3:50:09 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05684	10.500	.22978	2.3135	.29941	.21305	222.72	.20761	.21646
Stddev	.00006	.067	.00100	.0012	.00036	.00011	.43	.00054	.00043
%RSD	.10016	.63691	.43686	.05145	.11879	.05027	.19115	.26242	.19775

#1	.05688	10.453	.23049	2.3127	.29966	.21313	222.42	.20799	.21676
#2	.05680	10.548	.22907	2.3144	.29915	.21298	223.02	.20722	.21615

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20613	.21347	21.240	28.331	39.059	.45769	80.389	3.7195	3.7615
Stddev	.00048	.00018	.024	.005	.029	.00189	.087	.0061	.0164
%RSD	.23469	.08616	.11356	.01706	.07328	.41198	.10882	.16360	.43475

#1	.20579	.21334	21.223	28.334	39.079	.45902	80.451	3.7238	3.7730
#2	.20648	.21360	21.257	28.327	39.039	.45635	80.328	3.7152	3.7499

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20240	360.32	.22441	.20598	F 46.82	.21703	.21862	21.567	.19912
Stddev	.00127	.08	.00015	.00132	.05	.00119	.00142	.031	.00002
%RSD	.62636	.02121	.06904	.64082	.1131	.54828	.65072	.14484	.01149

#1	.20329	360.26	.22452	.20505	46.85	.21619	.21963	21.545	.19913
#2	.20150	360.37	.22430	.20691	46.78	.21787	.21762	21.590	.19910

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.5924	.18988	.20245	.20034	.20125
Stddev	.0011	.00083	.00203	.00058	.00087
%RSD	.06640	.43479	1.0044	.28822	.43289

#1	1.5932	.19046	.20389	.20074	.20186
#2	1.5917	.18930	.20102	.19993	.20063

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3938.0	7105.6	80300.	10271.
Stddev	2.7	10.4	296.	4.
%RSD	.06775	.14601	.36807	.04271

#1	3936.1	7098.3	80091.	10274.
#2	3939.9	7112.9	80509.	10267.

Sample Name: CCV Acquired: 9/12/2013 3:53:07 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49211	24.632	.49578	.48404	.49670	.50763	24.641	.47439	.48827	.49627	.48665	23.924
Stddev	.00181	.172	.00192	.00055	.00200	.00127	.105	.00021	.00069	.00029	.00064	.049
%RSD	.36738	.70000	.38676	.11428	.40249	.25114	.42787	.04480	.14032	.05773	.13190	.20616

#1	.49083	24.754	.49442	.48444	.49811	.50853	24.716	.47424	.48875	.49607	.48711	23.959
#2	.49339	24.510	.49713	.48365	.49529	.50673	24.567	.47454	.48778	.49648	.48620	23.889

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.627	24.723	.48868	23.811	.50310	.47347	.47463	23.816	.49810	.49506	25.32	.51105
Stddev	.056	.159	.00186	.033	.00095	.00126	.00015	.063	.00075	.00181	.03	.00111
%RSD	.22755	.64428	.37977	.13679	.18876	.26507	.03225	.26371	.15145	.36573	.1273	.21771

#1	24.667	24.835	.48999	23.834	.50377	.47259	.47453	23.860	.49864	.49378	25.34	.51183
#2	24.587	24.610	.48736	23.788	.50242	.47436	.47474	23.771	.49757	.49634	25.30	.51026

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48552	24.308	.47681	.48978	.46696	.49559	.47110	.47683
Stddev	.00122	.113	.00044	.00063	.00090	.00338	.00011	.00007
%RSD	.25067	.46291	.09225	.12819	.19292	.68269	.02319	.01530

#1	.48638	24.388	.47712	.49022	.46759	.49798	.47102	.47678
#2	.48466	24.229	.47650	.48934	.46632	.49319	.47118	.47688

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4566.5	7724.0	87231.	10395.
Stddev	8.2	7.0	4.	39.
%RSD	.17935	.09037	.00513	.37978
#1	4560.7	7719.1	87227.	10367.
#2	4572.3	7729.0	87234.	10423.

Sample Name: CCB Acquired: 9/12/2013 3:55:54 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00056	.02998	-.00010	.00390	.00010	.00006	.02044	.00003	.00016	.00041	-.00138	.00534
Stddev	.00020	.00203	.00158	.00016	.00002	.00002	.00093	.00006	.00009	.00016	.00029	.00497
%RSD	36.353	6.7632	1601.1	4.0499	23.807	28.598	4.5539	234.03	58.508	38.009	20.959	92.974

#1	.00070	.02855	-.00122	.00402	.00012	.00007	.02110	-.00002	.00022	.00030	-.00159	.00183
#2	.00041	.03142	.00102	.00379	.00008	.00005	.01978	.00007	.00009	.00052	-.00118	.00885

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11520	.00547	-.00143	.01476	.00040	.00042	.00010	.05082	-.00038	.00019	F .0145	-.00019
Stddev	.01017	.00056	.00099	.00316	.00001	.00004	.00004	.00087	.00016	.00051	.0019	.00093
%RSD	8.8287	10.312	69.341	21.399	1.9868	10.560	35.763	1.7083	42.024	272.58	13.23	478.01

#1	.10801	.00587	-.00214	.01252	.00039	.00045	.00007	.05021	-.00049	.00054	.0158	.00046
#2	.12239	.00507	-.00073	.01699	.00040	.00039	.00012	.05143	-.00027	-.00017	.0131	-.00085

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00070	.01892	-.00025	.00033	.00030	-.00272	.00004	-.00065
Stddev	.00081	.00474	.00018	.00002	.00030	.00083	.00003	.00004
%RSD	117.15	25.084	71.750	6.7573	98.632	30.553	69.340	5.9720

#1	-.00012	.01556	-.00038	.00035	.00052	-.00330	.00007	-.00062
#2	-.00127	.02227	-.00012	.00032	.00009	-.00213	.00002	-.00068

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4951.1	7857.8	88950.	10235.
Stddev	9.1	15.2	217.	24.
%RSD	.18457	.19319	.24372	.23297
#1	4957.5	7868.5	88797.	10218.
#2	4944.6	7847.1	89103.	10252.

Sample Name: 480-45418-C-6-A Acquired: 9/12/2013 3:58:46 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00009	.89759	.00498	.36362	.12466	.00007	133.56	.00041	.00029
Stddev	.00058	.00822	.00284	.00034	.00010	.00002	.13	.00005	.00008
%RSD	629.93	.91574	57.098	.09265	.07951	29.646	.09777	11.904	26.660

#1	.00050	.90340	.00699	.36386	.12473	.00005	133.47	.00045	.00023
#2	-.00032	.89178	.00297	.36338	.12459	.00008	133.65	.00038	.00034

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00307	.00260	2.3090	1.9857	2.7672	.06797	76.085	.58254	.56545
Stddev	.00020	.00012	.0040	.0147	.0182	.00031	.018	.00024	.00122
%RSD	6.6236	4.4967	.17115	.73849	.65810	.45864	.02425	.04137	.21545

#1	.00293	.00252	2.3062	1.9961	2.7543	.06819	76.098	.58271	.56631
#2	.00321	.00269	2.3118	1.9754	2.7801	.06775	76.072	.58237	.56458

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00486	74.896	.00128	-.00444	F 59.82	-.00186	-.00053	16.145	.00003
Stddev	.00012	.092	.00017	.00011	.23	.00181	.00033	.063	.00040
%RSD	2.5333	.12338	13.234	2.5492	.3885	97.198	61.949	.38717	1292.3

#1	.00478	74.831	.00116	-.00436	59.66	-.00058	-.00030	16.101	.00032
#2	.00495	74.962	.00139	-.00452	59.99	-.00314	-.00077	16.189	-.00025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.1043	.02440	-.00118	.00122	.00576
Stddev	.0029	.00007	.00062	.00021	.00049
%RSD	.26720	.29921	52.362	16.993	8.5558

#1	1.1022	.02445	-.00074	.00107	.00611
#2	1.1064	.02434	-.00162	.00136	.00541

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4268.2	7288.3	83215.	10242.
Stddev	2.3	1.5	191.	11.
%RSD	.05459	.02030	.22928	.10969

#1	4269.8	7287.2	83080.	10249.
#2	4266.5	7289.3	83350.	10234.

Sample Name: 480-45418-C-7-A Acquired: 9/12/2013 4:01:31 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00050	.05714	.01047	2.2857	.10389	.00000	211.56	.00038	.00462
Stddev	.00001	.00388	.00177	.0018	.00013	.00003	1.20	.00008	.00008
%RSD	1.1309	6.7919	16.894	.07986	.12991	899.83	.56844	22.209	1.8066

#1	.00050	.05989	.01172	2.2870	.10379	.00002	210.71	.00044	.00468
#2	.00049	.05440	.00922	2.2844	.10398	-.00002	212.41	.00032	.00456

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00324	.00260	10.783	18.502	28.480	.24651	72.162	3.4436	3.4612
Stddev	.00015	.00034	.030	.079	.225	.00027	.025	.0008	.0108
%RSD	4.6755	12.939	.27380	.42462	.79014	.10783	.03464	.02388	.31094

#1	.00313	.00236	10.762	18.446	28.321	.24669	72.180	3.4441	3.4688
#2	.00335	.00284	10.804	18.557	28.639	.24632	72.144	3.4430	3.4535

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00260	351.16	.01423	-.00419	F 46.77	-.00155	-.00000	11.180	-.00034
Stddev	.00020	.95	.00069	.00179	.02	.00058	.00031	.012	.00076
%RSD	7.6446	.26973	4.8443	42.626	.0450	37.240	8465.7	.11076	225.12

#1	.00274	350.49	.01472	-.00545	46.78	-.00114	.00021	11.171	-.00088
#2	.00246	351.83	.01374	-.00293	46.75	-.00195	-.00022	11.189	.00020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.4126	.00108	.00051	.00019	.00670
Stddev	.0007	.00022	.00175	.00004	.00069
%RSD	.05042	20.460	345.89	21.991	10.341

#1	1.4121	.00123	-.00073	.00016	.00621
#2	1.4131	.00092	.00174	.00022	.00719

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3980.5	7037.2	80112.	10337.
Stddev	2.7	7.0	30.	57.
%RSD	.06810	.10000	.03783	.55071

#1	3978.6	7032.2	80133.	10378.
#2	3982.4	7042.2	80091.	10297.

Sample Name: 480-45418-A-10-A Acquired: 9/12/2013 4:04:34 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00016	.04325	.00002	.00963	.00031	-0.00003	.30553	-0.00002	.00003
Stddev	.00011	.00189	.00048	.00019	.00000	.00008	.00732	.00003	.00011
%RSD	69.793	4.3604	2366.3	1.9276	.02229	265.15	2.3964	127.27	316.73

#1	-0.00008	.04458	.00036	.00976	.00031	.00003	.31071	-0.00000	.00011
#2	-0.00024	.04191	-0.00032	.00950	.00031	-0.00009	.30035	-0.00005	-0.00004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00019	-0.00100	.02369	.16554	.03651	-0.00077	.07897	.00372	.00335
Stddev	.00014	.00012	.00199	.01091	.00146	.00010	.00025	.00006	.00065
%RSD	74.506	11.492	8.3877	6.5910	4.0057	12.603	.31259	1.6290	19.384

#1	.00029	-0.00092	.02228	.15782	.03754	-0.00070	.07879	.00376	.00289
#2	.00009	-0.00109	.02509	.17325	.03547	-0.00084	.07914	.00368	.00381

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00013	.41736	-0.00019	-0.00028	.0776	-0.00098	.00028	.02662	-0.00025
Stddev	.00017	.00979	.00035	.00124	.0016	.00105	.00014	.00698	.00041
%RSD	134.77	2.3445	181.53	448.88	2.073	107.68	48.585	26.207	162.41

#1	.00025	.41044	.00006	-0.00115	.0765	-0.00023	.00019	.02168	.00004
#2	.00001	.42428	-0.00044	.00060	.0787	-0.00172	.00038	.03155	-0.00055

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00192	.00032	-0.00086	.00031	.00101
Stddev	.00005	.00015	.00046	.00003	.00014
%RSD	2.5626	46.659	53.461	10.878	14.214

#1	.00189	.00022	-0.00118	.00034	.00112
#2	.00196	.00043	-0.00053	.00029	.00091

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4947.8	7848.8	90271.	10395.
Stddev	.7	5.6	179.	54.
%RSD	.01471	.07148	.19815	.51750
#1	4947.2	7844.9	90145.	10357.
#2	4948.3	7852.8	90398.	10433.

Sample Name: 480-45425-C-1-A Acquired: 9/12/2013 4:07:25 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00054	.06039	.00336	.14810	.07850	-.00003	74.826	.00010	.00018
Stddev	.00056	.00655	.00169	.00009	.00014	.00006	.120	.00004	.00001
%RSD	105.14	10.846	50.448	.05913	.17523	176.94	.16053	43.257	8.1394

#1	.00094	.05575	.00456	.14816	.07860	-.00008	74.911	.00013	.00017
#2	.00014	.06502	.00216	.14803	.07841	.00001	74.741	.00007	.00019

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00131	-.00070	3.1283	7.0686	9.4092	.00305	14.327	2.0125	1.9189
Stddev	.00014	.00005	.0047	.0090	.1227	.00123	.018	.0007	.0056
%RSD	10.971	7.7787	.14961	.12692	1.3037	40.433	.12836	.03470	.29437

#1	.00121	-.00073	3.1250	7.0622	9.4960	.00218	14.314	2.0120	1.9149
#2	.00141	-.00066	3.1316	7.0749	9.3225	.00393	14.340	2.0130	1.9229

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00148	82.735	.00142	-.00275	F 42.42	-.00143	.00131	6.7411	-.00035
Stddev	.00004	.101	.00059	.00035	.10	.00144	.00502	.0036	.00020
%RSD	2.6262	.12208	41.572	12.665	.2263	100.23	384.29	.05331	55.916

#1	.00146	82.664	.00100	-.00300	42.49	-.00042	.00486	6.7386	-.00049
#2	.00151	82.807	.00184	-.00251	42.36	-.00245	-.00224	6.7437	-.00021

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.26116	.00065	-.00052	.00026	.00018
Stddev	.00046	.00011	.00216	.00017	.00010
%RSD	.17742	17.299	412.86	63.228	52.737

#1	.26148	.00073	-.00205	.00014	.00025
#2	.26083	.00057	.00101	.00038	.00012

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4441.6	7441.2	84585.	10350.
Stddev	12.3	10.0	135.	.
%RSD	.27695	.13373	.15920	.00271

#1	4450.3	7448.2	84680.	10350.
#2	4432.9	7434.1	84490.	10350.

Sample Name: 480-45425-A-2-A Acquired: 9/12/2013 4:10:18 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00081	.03570	.00488	.15241	.06012	-.00007	74.790	.00018	-.00000
Stddev	.00003	.01254	.00084	.00045	.00015	.00002	.040	.00008	.00004
%RSD	3.8996	35.128	17.218	.29211	.25514	31.558	.05362	46.320	4053.1

#1	.00078	.02683	.00547	.15273	.06002	-.00009	74.762	.00012	-.00003
#2	.00083	.04456	.00429	.15210	.06023	-.00005	74.819	.00024	.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00086	-.00027	1.6782	7.2272	9.6518	.00303	14.550	1.5033	1.4384
Stddev	.00045	.00030	.0031	.0127	.0571	.00010	.050	.0013	.0015
%RSD	52.201	114.32	.18719	.17585	.59175	3.2664	.34171	.08709	.10616

#1	.00117	-.00005	1.6760	7.2362	9.6114	.00310	14.585	1.5023	1.4395
#2	.00054	-.00048	1.6804	7.2182	9.6922	.00296	14.515	1.5042	1.4373

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00157	84.805	.00078	-.00308	F 43.25	-.00168	-.00075	6.7197	-.00047
Stddev	.00025	.137	.00026	.00035	.07	.00080	.00013	.0143	.00006
%RSD	15.798	.16137	33.246	11.352	.1562	47.423	17.120	.21268	12.441

#1	.00174	84.708	.00096	-.00283	43.30	-.00112	-.00066	6.7096	-.00043
#2	.00139	84.902	.00060	-.00332	43.20	-.00224	-.00084	6.7298	-.00051

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.26461	.00069	-.00034	.00021	.00103
Stddev	.00052	.00022	.00021	.00026	.00003
%RSD	.19786	32.156	61.085	122.44	2.6861

#1	.26498	.00085	-.00049	.00040	.00105
#2	.26424	.00053	-.00019	.00003	.00101

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4432.4	7443.1	84893.	10455.
Stddev	1.3	5.6	23.	9.
%RSD	.03034	.07552	.02766	.08830

#1	4431.4	7439.1	84909.	10461.
#2	4433.3	7447.1	84876.	10448.

Sample Name: 480-45425-E-4-A Acquired: 9/12/2013 4:13:10 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00079	.04743	.00283	.15353	.05883	-0.0001	71.580	.00035	.00017
Stddev	.00048	.00857	.00050	.00012	.00013	.00001	.333	.00002	.00018
%RSD	60.649	18.071	17.514	.07810	.22167	43.363	.46564	6.7997	104.26

#1	.00045	.05349	.00318	.15345	.05874	-0.0002	71.344	.00033	.00030
#2	.00113	.04137	.00248	.15362	.05892	-0.0001	71.816	.00036	.00005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00092	-0.00050	.02873	7.5343	9.9125	.00393	13.626	1.1721	1.1126
Stddev	.00047	.00007	.00014	.0291	.0670	.00059	.001	.0024	.0061
%RSD	51.114	13.792	.49114	.38607	.67626	14.924	.00935	.20859	.54871

#1	.00126	-0.00055	.02863	7.5138	9.8651	.00352	13.625	1.1704	1.1170
#2	.00059	-0.00045	.02883	7.5549	9.9599	.00434	13.627	1.1739	1.1083

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00174	89.567	.00116	-0.00220	F 40.94	-0.00160	-0.00049	6.7227	.00016
Stddev	.00018	.044	.00099	.00033	.08	.00159	.00229	.0197	.00037
%RSD	10.327	.04959	85.280	15.121	.1909	99.147	466.23	.29336	228.97

#1	.00186	89.536	.00186	-0.00196	40.89	-0.00048	.00113	6.7088	-0.00010
#2	.00161	89.599	.00046	-0.00243	41.00	-0.00272	-0.00211	6.7367	.00042

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.23960	.00030	-0.00146	.00036	.00174
Stddev	.00008	.00004	.00088	.00039	.00024
%RSD	.03193	12.695	60.178	105.91	13.993

#1	.23955	.00033	-0.00208	.00009	.00192
#2	.23966	.00028	-0.00084	.00064	.00157

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4438.6	7442.7	84617.	10314.
Stddev	10.1	13.7	177.	75.
%RSD	.22793	.18401	.20939	.72559

#1	4445.8	7452.4	84742.	10367.
#2	4431.5	7433.0	84492.	10261.

Sample Name: 480-45416-E-1-A Acquired: 9/12/2013 4:16:02 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00014	.03592	-.00046	.02662	.02565	-.00002	122.79	.00022	-.00013
Stddev	.00057	.00775	.00154	.00032	.00006	.00002	.67	.00001	.00010
%RSD	390.14	21.590	334.15	1.1882	.22172	75.828	.54324	2.4246	77.242

#1	.00054	.04140	.00063	.02684	.02569	-.00001	123.26	.00022	-.00006
#2	-.00025	.03043	-.00155	.02640	.02561	-.00004	122.31	.00023	-.00020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00095	-.00066	.66767	1.2863	1.5056	.01207	35.597	.08382	.08012
Stddev	.00024	.00015	.00745	.0488	.0076	.00106	.034	.00005	.00146
%RSD	25.268	22.357	1.1157	3.7944	.50188	8.8093	.09615	.06232	1.8281

#1	.00112	-.00056	.67294	1.2518	1.5109	.01132	35.621	.08386	.07908
#2	.00078	-.00077	.66240	1.3208	1.5003	.01282	35.573	.08378	.08115

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00427	13.050	-.00018	-.00250	F 78.56	-.00207	-.00171	4.8403	-.00040
Stddev	.00009	.027	.00003	.00008	.29	.00353	.00084	.0107	.00017
%RSD	2.1590	.20561	17.376	3.0629	.3656	170.02	49.168	.22021	43.349

#1	.00420	13.069	-.00016	-.00244	78.77	-.00457	-.00112	4.8478	-.00027
#2	.00433	13.031	-.00021	-.00255	78.36	.00042	-.00231	4.8327	-.00052

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.15067	.00086	.00011	-.00017	.00066
Stddev	.00048	.00009	.00069	.00020	.00021
%RSD	.31771	10.709	596.95	112.63	32.003

#1	.15101	.00080	-.00037	-.00031	.00080
#2	.15034	.00093	.00060	-.00004	.00051

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4471.9	7442.1	85237.	10372.
Stddev	1.0	2.1	76.	78.
%RSD	.02219	.02794	.08904	.75267

#1	4472.6	7440.6	85291.	10317.
#2	4471.2	7443.5	85184.	10428.

Sample Name: 480-45416-E-2-A Acquired: 9/12/2013 4:18:50 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00049	.05822	-.00015	.11459	.29333	-.00007	57.978	.00015	-.00011
Stddev	.00011	.00884	.00122	.00033	.00008	.00006	.270	.00004	.00010
%RSD	22.207	15.183	785.49	.28685	.02866	88.615	.46633	22.999	96.913

#1	.00041	.06447	.00071	.11483	.29327	-.00003	57.787	.00018	-.00003
#2	.00056	.05197	-.00102	.11436	.29339	-.00012	58.169	.00013	-.00018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00072	.00025	1.1722	1.3023	1.4438	.02288	21.319	.02174	.02058
Stddev	.00019	.00024	.0114	.0646	.0118	.00003	.053	.00002	.00012
%RSD	26.153	96.364	.97266	4.9574	.81715	.11751	.24647	.08725	.58911

#1	.00085	.00042	1.1642	1.2567	1.4355	.02290	21.356	.02175	.02049
#2	.00059	.00008	1.1803	1.3480	1.4522	.02286	21.282	.02173	.02066

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00594	13.294	-.00007	-.00377	5.434	-.00098	.00028	7.5966	-.00043
Stddev	.00010	.035	.00054	.00028	.020	.00142	.00153	.0113	.00009
%RSD	1.6481	.26055	778.52	7.3058	.3678	144.12	554.59	.14856	20.921

#1	.00587	13.270	-.00045	-.00396	5.448	-.00198	-.00081	7.5886	-.00049
#2	.00601	13.319	.00031	-.00357	5.420	.00002	.00136	7.6046	-.00036

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.93387	.00084	.00104	.00012	.00223
Stddev	.00047	.00014	.00113	.00014	.00039
%RSD	.05011	16.955	108.19	119.97	17.424

#1	.93420	.00095	.00025	.00002	.00195
#2	.93353	.00074	.00184	.00022	.00250

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4608.4	7628.4	86708.	10355.
Stddev	14.5	9.8	108.	87.
%RSD	.31439	.12841	.12448	.84086

#1	4598.2	7621.5	86632.	10417.
#2	4618.7	7635.3	86784.	10294.

Sample Name: 480-45416-E-3-A Acquired: 9/12/2013 4:21:37 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00033	.02774	-.00121	.01940	.18582	-.00005	73.331	.00062	-.00005
Stddev	.00029	.01812	.00062	.00009	.00060	.00006	.174	.00008	.00001
%RSD	87.343	65.301	51.722	.44944	.32287	114.88	.23681	12.606	28.259

#1	.00054	.01493	-.00165	.01934	.18540	-.00009	73.454	.00056	-.00004
#2	.00013	.04055	-.00077	.01947	.18625	-.00001	73.208	.00067	-.00006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00061	.00285	.67559	.97529	1.0219	.00670	20.682	.11098	.10371
Stddev	.00001	.00004	.00464	.02805	.0045	.00181	.041	.00024	.00002
%RSD	2.2063	1.3419	.68670	2.8762	.43782	27.045	.19663	.21317	.01471

#1	.00062	.00287	.67887	.95546	1.0250	.00798	20.653	.11081	.10372
#2	.00060	.00282	.67231	.99513	1.0187	.00542	20.711	.11115	.10370

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00541	3.9894	.00023	-.00286	F 19.31	-.00172	-.00196	4.0787	-.00069
Stddev	.00014	.0186	.00025	.00001	.03	.00088	.00079	.0227	.00006
%RSD	2.5674	.46538	107.93	.42342	.1669	51.394	40.479	.55770	8.1019

#1	.00551	4.0025	.00005	-.00285	19.33	-.00234	-.00253	4.0948	-.00065
#2	.00531	3.9762	.00041	-.00287	19.29	-.00109	-.00140	4.0626	-.00073

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.27090	.00067	-.00129	-.00001	.00615
Stddev	.00045	.00035	.00006	.00005	.00056
%RSD	.16616	52.179	4.8470	411.70	9.1788

#1	.27121	.00042	-.00124	.00002	.00575
#2	.27058	.00092	-.00133	-.00005	.00655

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4610.5	7551.6	86935.	10412.
Stddev	7.9	16.9	252.	8.
%RSD	.17030	.22332	.29019	.07331

#1	4616.0	7563.5	87114.	10407.
#2	4604.9	7539.7	86757.	10418.

Sample Name: 480-45416-E-4-A Acquired: 9/12/2013 4:24:25 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00095	.04444	.00106	.02633	.07332	-.00005	77.811	.00009	.00004
Stddev	.00011	.01357	.00154	.00021	.00003	.00003	.106	.00009	.00016
%RSD	11.612	30.536	145.22	.79539	.03998	63.096	.13633	96.331	436.74

#1	.00087	.05404	.00215	.02618	.07334	-.00008	77.736	.00003	.00015
#2	.00103	.03484	-.00003	.02648	.07330	-.00003	77.886	.00015	-.00008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00084	-.00044	.09539	2.2752	2.6010	.00964	21.981	.11314	.10528
Stddev	.00016	.00007	.00271	.0345	.0034	.00088	.025	.00001	.00101
%RSD	19.180	15.425	2.8359	1.5167	.12960	9.0995	.11372	.00945	.95643

#1	.00073	-.00039	.09731	2.2508	2.6034	.00902	21.963	.11313	.10600
#2	.00096	-.00049	.09348	2.2996	2.5986	.01026	21.998	.11315	.10457

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00368	5.8266	.00004	-.00257	F 25.77	-.00072	-.00019	4.3128	-.00025
Stddev	.00004	.0134	.00034	.00140	.07	.00011	.00260	.0178	.00040
%RSD	.98436	.22931	775.98	54.696	.2806	15.396	1363.9	.41202	157.89

#1	.00371	5.8171	.00028	-.00157	25.82	-.00064	.00165	4.3002	.00003
#2	.00366	5.8360	-.00019	-.00356	25.72	-.00080	-.00203	4.3254	-.00054

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.30350	.00087	-.00192	.00007	.00033
Stddev	.00081	.00022	.00265	.00034	.00031
%RSD	.26528	25.071	138.51	477.16	94.748

#1	.30293	.00103	-.00004	.00032	.00011
#2	.30407	.00072	-.00379	-.00017	.00055

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4596.9	7546.8	86445.	10350.
Stddev	4.2	6.8	140.	2.
%RSD	.09077	.09006	.16232	.02063

#1	4594.0	7542.0	86346.	10352.
#2	4599.9	7551.6	86544.	10349.

Sample Name: CCV Acquired: 9/12/2013 4:27:13 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49358	24.614	.49793	.47789	.49638	.50867	24.618	.47481	.48805	.49547	.48565	24.002
Stddev	.00172	.128	.00088	.00207	.00163	.00104	.110	.00077	.00117	.00026	.00035	.069
%RSD	.34875	.52076	.17755	.43354	.32802	.20512	.44525	.16248	.23993	.05324	.07161	.28541

#1	.49236	24.704	.49731	.47936	.49753	.50940	24.695	.47536	.48888	.49565	.48540	24.050
#2	.49480	24.523	.49856	.47643	.49523	.50793	24.540	.47427	.48722	.49528	.48589	23.953

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.653	25.696	.48985	23.830	.50263	.47448	.47603	23.757	.49738	.49453	25.27	.50879
Stddev	.040	.311	.00180	.028	.00096	.00030	.00085	.059	.00105	.00389	.05	.00459
%RSD	.16329	1.2088	.36714	.11644	.19192	.06284	.17870	.24816	.21121	.78738	.2112	.90125

#1	24.682	25.915	.49112	23.849	.50332	.47427	.47663	23.799	.49812	.49728	25.31	.51203
#2	24.625	25.476	.48858	23.810	.50195	.47469	.47543	23.715	.49664	.49178	25.23	.50555

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48570	24.178	.47701	.48993	.46885	.49801	.47164	.47915
Stddev	.00131	.005	.00003	.00007	.00132	.00067	.00038	.00080
%RSD	.26908	.01935	.00537	.01504	.28179	.13550	.08159	.16635

#1	.48662	24.181	.47703	.48988	.46792	.49753	.47136	.47858
#2	.48478	24.174	.47699	.48998	.46979	.49849	.47191	.47971

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4578.9	7739.0	87400.	10395.
Stddev	8.7	15.8	5.	63.
%RSD	.18986	.20388	.00609	.60316
#1	4572.8	7727.8	87396.	10351.
#2	4585.1	7750.1	87404.	10439.

Sample Name: CCB Acquired: 9/12/2013 4:30:01 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00023	.01462	-.00161	.00076	.00005	.00002	.00418	.00006	.00023	.00014	-.00125	.00529
Stddev	.00026	.00405	.00061	.00021	.00002	.00001	.00001	.00004	.00004	.00018	.00007	.00060
%RSD	113.89	27.734	37.969	27.135	40.580	32.920	.15797	76.264	16.593	127.30	5.3849	11.394

#1	.00041	.01749	-.00118	.00090	.00007	.00003	.00418	.00003	.00021	.00001	-.00120	.00487
#2	.00004	.01175	-.00204	.00061	.00004	.00002	.00419	.00009	.00026	.00027	-.00130	.00572

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.12833	.00256	-.00022	.00534	.00011	.00023	.00019	-.00837	-.00041	-.00169	F .0121	.00036
Stddev	.01605	.00071	.00084	.00281	.00004	.00047	.00016	.00168	.00020	.00106	.0034	.00025
%RSD	12.509	27.664	384.70	52.605	33.636	199.31	84.269	20.072	48.572	62.486	28.23	67.481

#1	.13968	.00306	.00038	.00335	.00009	-.00010	.00030	-.00955	-.00027	-.00244	.0097	.00054
#2	.11698	.00206	-.00082	.00732	.00014	.00056	.00008	-.00718	-.00055	-.00095	.0145	.00019

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00155	.00832	.00013	.00022	.00023	-.00256	.00030	-.00060
Stddev	.00058	.00106	.00002	.00010	.00002	.00074	.00010	.00012
%RSD	37.639	12.761	15.692	46.073	10.949	28.963	34.221	20.530

#1	-.00197	.00757	.00012	.00029	.00024	-.00203	.00037	-.00051
#2	-.00114	.00907	.00015	.00015	.00021	-.00308	.00023	-.00068

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4942.7	7845.7	89400.	10449.
Stddev	4.1	2.9	155.	22.
%RSD	.08213	.03667	.17325	.20685
#1	4945.5	7843.7	89510.	10433.
#2	4939.8	7847.7	89291.	10464.

Sample Name: 480-45416-E-5-A Acquired: 9/12/2013 4:32:53 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00023	.10490	.00022	.03847	.04203	-.00002	98.404	.00027	.00007
Stddev	.00045	.00916	.00153	.00034	.00006	.00003	.035	.00008	.00014
%RSD	198.19	8.7280	711.07	.87972	.13950	150.66	.03507	28.125	199.57

#1	-.00009	.11137	-.00087	.03871	.04207	.00000	98.379	.00032	.00017
#2	.00054	.09842	.00130	.03823	.04198	-.00004	98.428	.00022	-.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00134	-.00039	.07859	1.8274	2.2311	.01120	24.991	.07344	.06953
Stddev	.00048	.00010	.00222	.0334	.0171	.00044	.057	.00029	.00020
%RSD	35.914	24.864	2.8309	1.8267	.76805	3.8920	.22781	.40029	.28996

#1	.00100	-.00046	.07702	1.8510	2.2190	.01089	25.031	.07365	.06939
#2	.00168	-.00032	.08017	1.8038	2.2433	.01151	24.950	.07323	.06967

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00796	18.246	.00060	-.00127	F 51.15	.00017	-.00060	4.0984	-.00041
Stddev	.00033	.010	.00018	.00064	.11	.00103	.00230	.0124	.00081
%RSD	4.1658	.05372	29.512	50.549	.2237	620.68	383.40	.30183	196.98

#1	.00773	18.253	.00047	-.00172	51.23	.00090	-.00223	4.1072	.00016
#2	.00820	18.239	.00072	-.00081	51.07	-.00056	.00103	4.0897	-.00099

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.38003	.00179	-.00305	.00102	.00643
Stddev	.00084	.00017	.00306	.00006	.00022
%RSD	.22008	9.3385	100.37	5.6900	3.4368

#1	.37944	.00168	-.00089	.00098	.00659
#2	.38062	.00191	-.00521	.00106	.00627

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4516.6	7489.2	85163.	10264.
Stddev	.9	7.0	378.	3.
%RSD	.01991	.09286	.44377	.02443

#1	4516.0	7484.2	84895.	10266.
#2	4517.2	7494.1	85430.	10262.

Sample Name: 480-45456-H-1-A Acquired: 9/12/2013 4:35:41 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00039	.04154	.00022	.01862	.01528	-0.0010	201.33	.00020	.00018
Stddev	.00045	.00035	.00062	.00015	.00003	.00006	1.23	.00006	.00011
%RSD	114.40	.83359	283.10	.82606	.20879	64.345	.61244	29.918	58.953

#1	.00007	.04178	-.00022	.01851	.01530	-.00005	200.46	.00016	.00010
#2	.00071	.04129	.00066	.01873	.01526	-.00014	202.20	.00025	.00025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00187	.00448	.07354	20.663	30.969	.12091	11.732	.01053	.01083
Stddev	.00028	.00030	.00199	.119	.192	.00097	.006	.00008	.00045
%RSD	15.061	6.7659	2.7036	.57421	.62012	.80215	.04732	.74681	4.1357

#1	.00167	.00427	.07495	20.580	31.105	.12023	11.728	.01058	.01115
#2	.00206	.00470	.07214	20.747	30.833	.12160	11.736	.01047	.01052

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00027	369.60	.00572	-0.00076	F 82.38	-0.00051	-0.00025	2.0394	-0.00014
Stddev	.00025	.37	.00028	.00083	.12	.00021	.00068	.0143	.00061
%RSD	95.158	.09962	4.9774	108.18	.1439	40.688	275.96	.70176	433.43

#1	.00045	369.34	.00552	-.00135	82.47	-.00037	.00023	2.0495	.00029
#2	.00009	369.86	.00592	-.00018	82.30	-.00066	-.00073	2.0292	-.00058

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	3.6527	.00088	-.00474	.00016	.03017
Stddev	.0013	.00017	.00100	.00023	.00056
%RSD	.03489	19.148	21.041	148.24	1.8528

#1	3.6536	.00076	-.00544	-.00001	.02977
#2	3.6518	.00100	-.00403	.00032	.03056

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4030.8	7098.9	80275.	10215.
Stddev	6.6	7.3	183.	13.
%RSD	.16335	.10301	.22817	.12983

#1	4035.5	7093.7	80145.	10224.
#2	4026.2	7104.1	80404.	10205.

Sample Name: 480-45456-H-4-A Acquired: 9/12/2013 4:38:47 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00013	.03179	-.00051	.01707	.01233	-.00004	162.28	.00014	.00015
Stddev	.00062	.00457	.00044	.00020	.00000	.00000	.45	.00005	.00013
%RSD	482.69	14.373	85.203	1.1621	.00120	5.9392	.27994	34.853	87.573

#1	-.00031	.03502	-.00082	.01693	.01233	-.00004	161.96	.00018	.00024
#2	.00056	.02856	-.00020	.01721	.01233	-.00004	162.60	.00011	.00006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00117	.00031	.04276	19.820	29.088	.10546	8.5531	.00883	.00837
Stddev	.00010	.00027	.00045	.044	.305	.00013	.0135	.00002	.00012
%RSD	8.6876	84.916	1.0569	.22345	1.0499	.12601	.15826	.21438	1.4460

#1	.00124	.00050	.04308	19.788	28.873	.10556	8.5627	.00882	.00846
#2	.00110	.00012	.04244	19.851	29.304	.10537	8.5435	.00885	.00829

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00007	334.76	.00364	-.00144	F 62.85	-.00106	-.00186	1.9366	-.00037
Stddev	.00058	.19	.00018	.00001	.11	.00174	.00157	.0283	.00027
%RSD	841.61	.05601	5.0142	.91223	.1780	164.10	84.679	1.4621	71.849

#1	-.00034	334.63	.00351	-.00145	62.93	-.00229	-.00074	1.9166	-.00018
#2	.00048	334.89	.00377	-.00144	62.77	.00017	-.00297	1.9566	-.00056

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.8055	.00096	-.00098	.00011	.01715
Stddev	.0062	.00012	.00164	.00003	.00007
%RSD	.22164	12.599	166.99	24.068	.38538

#1	2.8011	.00105	.00018	.00013	.01720
#2	2.8099	.00088	-.00215	.00009	.01710

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4099.8	7201.5	80535.	10271.
Stddev	1.9	9.9	92.	17.
%RSD	.04517	.13742	.11376	.16472

#1	4098.5	7194.5	80600.	10283.
#2	4101.1	7208.5	80470.	10259.

Sample Name: MB 480-138335/1-A Acquired: 9/12/2013 4:41:47 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00067	.04842	.00085	.00393	.00002	-.00003	.06142	-.00001	.00008
Stddev	.00015	.00848	.00069	.00009	.00002	.00004	.00201	.00008	.00018
%RSD	22.516	17.512	81.908	2.2408	81.505	132.14	3.2760	719.24	230.05

#1	.00077	.04243	.00036	.00387	.00004	-.00006	.06000	-.00007	.00020
#2	.00056	.05442	.00134	.00399	.00001	-.00000	.06285	.00004	-.00005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00010	-.00114	.00271	.12198	.00397	-.00035	.00058	.00005	.00032
Stddev	.00015	.00018	.00189	.02269	.00040	.00017	.00167	.00002	.00029
%RSD	153.42	15.443	69.850	18.600	10.194	50.439	287.13	34.808	88.918

#1	.00021	-.00102	.00137	.13802	.00368	-.00047	.00176	.00004	.00053
#2	-.00001	-.00127	.00405	.10594	.00426	-.00022	-.00060	.00006	.00012

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00016	.06772	-.00055	-.00123	F .0177	-.00044	-.00130	-.00167	.00003
Stddev	.00002	.00410	.00006	.00078	.0013	.00008	.00252	.00483	.00001
%RSD	11.075	6.0516	11.320	63.657	7.345	17.582	194.43	288.42	54.823

#1	.00015	.06482	-.00060	-.00178	.0168	-.00039	.00049	.00174	.00002
#2	.00017	.07062	-.00051	-.00068	.0186	-.00050	-.00308	-.00509	.00004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass
High Limit					.0022				
Low Limit					-.0040				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00086	.00026	-.00251	.00008	-.00017
Stddev	.00009	.00009	.00059	.00008	.00005
%RSD	10.218	35.256	23.409	98.427	30.907

#1	.00092	.00032	-.00209	.00002	-.00021
#2	.00080	.00019	-.00293	.00013	-.00013

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4966.3	7883.3	90376.	10478.
Stddev	5.1	1.9	71.	37.
%RSD	.10231	.02436	.07817	.35436

#1	4969.9	7884.7	90426.	10452.
#2	4962.7	7881.9	90326.	10505.

Sample Name: LCS 480-138335/2-A Acquired: 9/12/2013 4:44:38 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05163	10.283	.20089	.20474	.20559	.21224	10.083	.19704	.20119
Stddev	.00023	.015	.00167	.00039	.00029	.00002	.024	.00047	.00023
%RSD	.44612	.15033	.83140	.19216	.13876	.01104	.23965	.23952	.11358

#1	.05147	10.294	.19971	.20502	.20539	.21226	10.100	.19737	.20135
#2	.05179	10.272	.20207	.20446	.20579	.21223	10.066	.19671	.20102

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20691	.20177	10.033	10.038	10.160	.20258	10.178	.20563	.19029
Stddev	.00000	.00036	.021	.020	.093	.00022	.018	.00052	.00106
%RSD	.00161	.17645	.20673	.20352	.91545	.10738	.17464	.25477	.55445

#1	.20691	.20152	10.018	10.053	10.094	.20243	10.190	.20600	.19104
#2	.20691	.20202	10.048	10.024	10.226	.20273	10.165	.20526	.18955

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20020	9.7248	.20228	.19933	F .0081	.20556	.20336	10.026	.18685
Stddev	.00057	.0214	.00025	.00156	.0021	.00075	.00066	.017	.00070
%RSD	.28705	.22044	.12394	.78346	25.36	.36386	.32402	.17395	.37580

#1	.20060	9.7400	.20245	.20044	.0096	.20503	.20383	10.038	.18635
#2	.19979	9.7097	.20210	.19823	.0067	.20608	.20290	10.014	.18734

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					11.50				
Low Limit					8.500				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20243	.18538	.20150	.19568	.19559
Stddev	.00011	.00094	.00233	.00011	.00098
%RSD	.05440	.50476	1.1575	.05656	.49853

#1	.20235	.18604	.19985	.19576	.19628
#2	.20251	.18472	.20315	.19560	.19490

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4736.6	7789.9	88227.	10473.
Stddev	4.2	.6	21.	35.
%RSD	.08912	.00831	.02361	.33539

#1	4739.6	7789.4	88212.	10448.
#2	4733.7	7790.3	88242.	10497.

Sample Name: 480-45472-F-1-A Acquired: 9/12/2013 4:47:24 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00069	.02963	.00035	.16043	.02645	.00003	61.741	.00021	.00060
Stddev	.00017	.00600	.00118	.00019	.00001	.00007	.452	.00004	.00003
%RSD	25.245	20.246	335.51	.12134	.04531	256.74	.73254	17.046	5.3989

#1	.00081	.03387	-.00048	.16029	.02644	.00008	62.060	.00024	.00058
#2	.00057	.02539	.00118	.16057	.02646	-.00002	61.421	.00019	.00062

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00102	.00016	.00798	4.4633	5.8231	.07104	94.145	.20410	.19561
Stddev	.00042	.00026	.00081	.0034	.0471	.00178	.056	.00013	.00178
%RSD	41.667	166.64	10.100	.07514	.80861	2.5066	.05946	.06298	.90793

#1	.00132	.00034	.00741	4.4657	5.8564	.07230	94.106	.20401	.19435
#2	.00072	-.00003	.00854	4.4609	5.7898	.06978	94.185	.20419	.19686

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00241	47.478	.00000	-.00258	F 35.89	-.00045	.00075	6.8570	-.00029
Stddev	.00008	.243	.00047	.00038	.00	.00137	.00502	.0420	.00000
%RSD	3.4347	.51261	18527.	14.554	.0090	301.93	668.11	.61218	.91306

#1	.00236	47.650	-.00033	-.00232	35.88	-.00143	.00430	6.8867	-.00030
#2	.00247	47.306	.00034	-.00285	35.89	.00052	-.00280	6.8273	-.00029

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	2.8316	.00061	-.00304	-.00000	.00118
Stddev	.0104	.00003	.00385	.00027	.00015
%RSD	.36767	4.9662	126.52	26617.	12.787

#1	2.8390	.00063	-.00576	.00019	.00129
#2	2.8243	.00058	-.00032	-.00019	.00107

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4372.4	7419.0	84738.	10373.
Stddev	.5	1.6	147.	87.
%RSD	.01215	.02184	.17309	.84061

#1	4372.0	7420.2	84842.	10311.
#2	4372.8	7417.9	84635.	10435.

Sample Name: 480-45472-F-2-A Acquired: 9/12/2013 4:50:11 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00068	.04003	.00100	.02022	.06003	-.00002	77.274	.00026	.00001
Stddev	.00026	.00670	.00122	.00051	.00011	.00010	.199	.00002	.00001
%RSD	38.217	16.747	122.05	2.5142	.19075	433.94	.25704	6.2432	121.38

#1	.00086	.03529	.00187	.02058	.05995	.00005	77.134	.00025	.00002
#2	.00049	.04477	.00014	.01987	.06011	-.00009	77.415	.00027	.00000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00058	.00251	.09536	1.4555	1.7028	.02384	62.683	.00251	.00255
Stddev	.00033	.00010	.00262	.0288	.0131	.00057	.080	.00002	.00003
%RSD	57.447	4.0320	2.7461	1.9794	.77145	2.4007	.12753	.92925	1.1426

#1	.00081	.00244	.09721	1.4759	1.6935	.02344	62.739	.00253	.00257
#2	.00034	.00258	.09350	1.4351	1.7120	.02424	62.626	.00250	.00253

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00104	22.660	-.00043	-.00369	F 10.23	-.00070	-.00094	8.2226	-.00028
Stddev	.00008	.029	.00033	.00296	.02	.00043	.00146	.0018	.00013
%RSD	7.3285	.12694	77.657	80.154	.2242	60.428	155.40	.02147	46.186

#1	.00109	22.640	-.00066	-.00160	10.25	-.00040	.00009	8.2213	-.00019
#2	.00099	22.681	-.00019	-.00578	10.22	-.00101	-.00198	8.2238	-.00037

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.87569	.00121	-.00425	.00013	.00725
Stddev	.00069	.00005	.00002	.00008	.00003
%RSD	.07890	4.1762	.38625	59.742	.44119

#1	.87520	.00125	-.00426	.00008	.00727
#2	.87618	.00118	-.00424	.00019	.00722

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4465.4	7495.7	85300.	10329.
Stddev	3.0	3.1	157.	28.
%RSD	.06798	.04162	.18382	.27495

#1	4463.2	7497.9	85189.	10349.
#2	4467.5	7493.5	85411.	10309.

Sample Name: 480-45472-F-3-A Acquired: 9/12/2013 4:52:59 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00016	.04113	.00059	.03920	.08140	-0.00006	53.821	.00029	-0.00000
Stddev	.00070	.00718	.00082	.00022	.00006	.00001	.015	.00007	.00014
%RSD	443.79	17.446	137.40	.57025	.06983	22.360	.02825	23.060	3806.2

#1	-0.00034	.03606	.00117	.03904	.08144	-0.00007	53.810	.00024	-0.00010
#2	.00065	.04621	.00002	.03936	.08136	-0.00005	53.831	.00034	.00009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00050	.00114	.06261	4.3484	5.4089	.03016	53.465	.01415	.01304
Stddev	.00031	.00026	.00028	.0259	.0151	.00019	.124	.00002	.00018
%RSD	62.638	22.432	.45415	.59466	.27914	.61450	.23284	.16486	1.4129

#1	.00028	.00132	.06241	4.3667	5.4196	.03029	53.377	.01417	.01317
#2	.00072	.00096	.06281	4.3301	5.3983	.03003	53.553	.01413	.01291

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00226	31.554	-0.00017	-0.00378	F 10.40	-0.00183	-0.00201	8.0858	-0.00046
Stddev	.00020	.045	.00042	.00171	.03	.00006	.00450	.0246	.00000
%RSD	8.7514	.14139	250.17	45.230	.2715	3.3262	223.86	.30412	.39829

#1	.00240	31.585	-0.00046	-0.00257	10.42	-0.00179	-0.00520	8.1032	-0.00046
#2	.00212	31.522	.00013	-0.00498	10.38	-0.00187	.00117	8.0684	-0.00046

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0546	.00070	-0.00205	-0.00003	.00318
Stddev	.0003	.00004	.00267	.00015	.00013
%RSD	.02442	6.1836	130.37	608.70	4.1326

#1	1.0548	.00067	-0.00394	.00008	.00309
#2	1.0545	.00073	-0.00016	-0.00013	.00328

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4502.0	7552.8	85948.	10422.
Stddev	3.4	8.5	199.	5.
%RSD	.07553	.11194	.23132	.04541
#1	4499.6	7546.9	86089.	10426.
#2	4504.4	7558.8	85808.	10419.

Sample Name: 480-45472-F-4-A Acquired: 9/12/2013 4:55:47 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00009	.04823	.00289	.25468	.05437	-.00006	57.737	.00024	-.00011
Stddev	.00059	.01501	.00247	.00056	.00003	.00004	.240	.00008	.00015
%RSD	661.37	31.115	85.298	.21798	.04966	56.456	.41614	31.552	134.19

#1	-.00033	.03762	.00115	.25508	.05435	-.00009	57.907	.00030	-.00022
#2	.00051	.05884	.00464	.25429	.05438	-.00004	57.568	.00019	-.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00080	.00011	.14295	3.9241	5.0631	.03244	46.918	.11537	.10832
Stddev	.00021	.00020	.00407	.0084	.0761	.00055	.019	.00016	.00153
%RSD	26.399	181.55	2.8481	.21427	1.5037	1.7026	.04097	.13568	1.4109

#1	.00095	-.00003	.14007	3.9181	5.1170	.03205	46.905	.11526	.10724
#2	.00065	.00025	.14583	3.9300	5.0093	.03283	46.932	.11548	.10940

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00260	52.104	-.00011	-.00275	F 20.65	-.00073	-.00200	6.2323	-.00017
Stddev	.00007	.045	.00039	.00125	.04	.00249	.00097	.0032	.00042
%RSD	2.5595	.08604	348.70	45.650	.1986	341.22	48.348	.05162	246.72

#1	.00255	52.136	.00017	-.00363	20.68	-.00249	-.00268	6.2345	.00013
#2	.00265	52.072	-.00039	-.00186	20.62	.00103	-.00131	6.2300	-.00046

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	3.4335	.00061	.00015	-.00003	.00607
Stddev	.0021	.00021	.00192	.00015	.00019
%RSD	.06144	34.056	1278.0	571.71	3.1969

#1	3.4349	.00076	.00150	.00008	.00620
#2	3.4320	.00046	-.00120	-.00013	.00593

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4472.9	7516.3	85418.	10388.
Stddev	5.0	8.0	187.	55.
%RSD	.11150	.10640	.21868	.52657
#1	4469.3	7510.7	85550.	10349.
#2	4476.4	7522.0	85285.	10427.

Sample Name: 480-45472-F-5-A Acquired: 9/12/2013 4:58:33 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00052	.03764	.00045	.01134	.05783	-0.00000	89.624	.00019	-0.00006
Stddev	.00000	.00980	.00031	.00002	.00006	.00001	.187	.00010	.00003
%RSD	.52657	26.029	68.850	.13623	.10299	267.81	.20917	50.664	57.062

#1	.00052	.03071	.00023	.01133	.05787	.00000	89.492	.00012	-.00003
#2	.00051	.04457	.00066	.01135	.05778	-.00001	89.757	.00026	-.00008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00096	.00268	.00908	1.1439	1.3046	.01498	41.918	.00091	.00039
Stddev	.00029	.00039	.00144	.0131	.0048	.00105	.030	.00003	.00002
%RSD	30.249	14.530	15.838	1.1463	.36750	7.0157	.07205	3.7252	4.6337

#1	.00116	.00295	.01009	1.1347	1.3013	.01572	41.939	.00094	.00038
#2	.00075	.00240	.00806	1.1532	1.3080	.01424	41.896	.00089	.00041

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00067	4.9054	.00003	-.00302	9.294	-.00131	.00033	8.5345	-.00039
Stddev	.00028	.0078	.00004	.00063	.008	.00114	.00184	.00086	.00010
%RSD	41.729	.15883	128.72	21.028	.0896	86.847	556.94	.10024	26.097

#1	.00048	4.8998	.00000	-.00347	9.300	-.00211	.00163	8.5284	-.00032
#2	.00087	4.9109	.00005	-.00257	9.288	-.00050	-.00097	8.5405	-.00046

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.92681	.00096	-.00278	.00072	.00844
Stddev	.00098	.00048	.00010	.00005	.00015
%RSD	.10560	49.472	3.6598	6.9315	1.7965

#1	.92612	.00062	-.00271	.00068	.00833
#2	.92750	.00130	-.00285	.00075	.00855

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4514.3	7522.4	85262.	10165.
Stddev	4.8	11.4	131.	43.
%RSD	.10636	.15219	.15395	.41883
#1	4510.9	7514.3	85169.	10195.
#2	4517.7	7530.5	85355.	10134.

Sample Name: CCV Acquired: 9/12/2013 5:01:24 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49481	24.517	.49562	.47760	.49460	.50772	24.633	.47475	.48927	.49716	.48586	23.948
Stddev	.00015	.073	.00113	.00032	.00065	.00123	.151	.00066	.00159	.00117	.00088	.078
%RSD	.03037	.29981	.22900	.06664	.13119	.24319	.61379	.13827	.32472	.23524	.18197	.32477

#1	.49470	24.465	.49482	.47737	.49414	.50685	24.526	.47521	.49039	.49798	.48523	23.893
#2	.49492	24.569	.49642	.47782	.49506	.50860	24.740	.47428	.48814	.49633	.48648	24.003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.657	25.780	.48862	23.863	.50321	.47124	.47479	23.717	.49869	.49824	25.34	.50935
Stddev	.002	.227	.00077	.031	.00045	.00262	.00011	.060	.00009	.00414	.02	.00024
%RSD	.00832	.88198	.15780	.13064	.08998	.55549	.02237	.25441	.01759	.83014	.0803	.04729

#1	24.656	25.940	.48808	23.885	.50353	.47309	.47486	23.675	.49875	.50117	25.35	.50952
#2	24.658	25.619	.48917	23.841	.50289	.46939	.47471	23.760	.49863	.49532	25.32	.50918

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48488	24.037	.47878	.48929	.46799	.50108	.47410	.48127
Stddev	.00261	.146	.00307	.00046	.00004	.00237	.00097	.00048
%RSD	.53870	.60680	.64027	.09392	.00812	.47386	.20531	.09999

#1	.48672	23.934	.48095	.48961	.46802	.50275	.47478	.48161
#2	.48303	24.140	.47661	.48896	.46796	.49940	.47341	.48093

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4577.8	7752.9	87409.	10375.
Stddev	3.2	1.7	168.	91.
%RSD	.07025	.02203	.19226	.87947
#1	4575.6	7751.7	87290.	10439.
#2	4580.1	7754.1	87528.	10310.

Sample Name: CCB Acquired: 9/12/2013 5:04:11 Type: QC
 Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00109	.02498	.00099	.00013	.00006	.00002	.00582	.00000	.00014	.00022	-.00117	.00262
Stddev	.00054	.01203	.00262	.00010	.00002	.00000	.00022	.00008	.00000	.00025	.00045	.00202
%RSD	48.983	48.160	264.60	75.853	27.431	6.7695	3.8573	5207.8	.76877	116.78	38.438	76.997

#1	.00071	.03349	.00284	.00006	.00007	.00002	.00566	-.00006	.00014	.00004	-.00085	.00120
#2	.00147	.01647	-.00086	.00020	.00005	.00002	.00598	.00006	.00014	.00039	-.00149	.00405

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11011	.00265	-.00070	.00740	.00013	.00023	.00004	.00207	-.00052	-.00140	F .0090	-.00192
Stddev	.03221	.00028	.00045	.00848	.00000	.00031	.00040	.01256	.00008	.00039	.0010	.00129
%RSD	29.256	10.665	64.235	114.64	2.5458	136.69	902.78	608.27	15.939	28.181	11.10	67.278

#1	.08733	.00285	-.00101	.01340	.00013	.00045	-.00024	.01095	-.00046	-.00168	.0097	-.00101
#2	.13289	.00245	-.00038	.00140	.00013	.00001	.00033	-.00682	-.00058	-.00112	.0083	-.00283

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00155	.00445	-.00011	.00032	.00045	-.00085	.00028	-.00075
Stddev	.00315	.01409	.00038	.00005	.00006	.00054	.00011	.00013
%RSD	203.54	316.60	352.27	15.065	14.219	63.700	41.189	17.064

#1	.00068	.01441	-.00037	.00035	.00050	-.00047	.00020	-.00084
#2	-.00377	-.00551	.00016	.00028	.00041	-.00123	.00036	-.00066

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4962.5	7891.3	90032.	10430.
Stddev	8.3	.5	346.	3.
%RSD	.16814	.00626	.38439	.02950
#1	4968.4	7891.6	89788.	10433.
#2	4956.6	7890.9	90277.	10428.

Sample Name: 480-45472-F-6-A Acquired: 9/12/2013 5:07:04 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00056	.05836	.00104	.01831	.16348	-.00001	85.261	.00020	.00017
Stddev	.00013	.01377	.00165	.00040	.00008	.00001	.222	.00008	.00005
%RSD	22.425	23.598	159.13	2.1714	.04624	90.100	.26070	38.092	26.320

#1	.00047	.06809	-.00013	.01859	.16343	-.00002	85.418	.00015	.00021
#2	.00065	.04862	.00220	.01803	.16353	-.00000	85.104	.00026	.00014

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00109	-.00014	.00973	1.1391	1.2075	.00946	29.611	.21553	.20330
Stddev	.00013	.00005	.00241	.0219	.0015	.00004	.080	.00056	.00026
%RSD	11.917	35.468	24.712	1.9184	.12708	.37374	.26927	.26154	.12865

#1	.00100	-.00018	.00803	1.1545	1.2064	.00944	29.555	.21513	.20311
#2	.00119	-.00011	.01144	1.1236	1.2086	.00949	29.667	.21593	.20348

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00148	8.8691	-.00033	-.00253	F 14.52	-.00187	-.00006	6.7259	-.00047
Stddev	.00020	.0333	.00017	.00038	.03	.00202	.00014	.0034	.00054
%RSD	13.271	.37527	53.253	15.081	.2292	107.85	254.58	.05002	113.73

#1	.00134	8.8927	-.00020	-.00280	14.54	-.00044	.00005	6.7283	-.00085
#2	.00161	8.8456	-.00045	-.00226	14.49	-.00329	-.00016	6.7235	-.00009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.86168	.00074	-.00093	.00021	.00368
Stddev	.00156	.00002	.00230	.00007	.00042
%RSD	.18075	3.0290	246.44	31.900	11.409

#1	.86278	.00075	-.00256	.00026	.00397
#2	.86058	.00072	.00069	.00016	.00338

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4552.8	7564.2	85763.	10309.
Stddev	5.4	11.5	28.	33.
%RSD	.11852	.15146	.03252	.31778

#1	4556.6	7572.3	85782.	10286.
#2	4549.0	7556.1	85743.	10332.

Sample Name: 480-45472-F-6-A SD@5 Acquired: 9/12/2013 5:09:52 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00049	.05425	-.00035	.00339	.03387	-.00002	17.598	.00012	-.00002
Stddev	.00025	.01202	.00048	.00008	.00011	.00003	.022	.00000	.00003
%RSD	51.093	22.147	136.52	2.2446	.32339	148.27	.12478	.64309	149.85

#1	.00031	.04576	-.00001	.00333	.03380	.00000	17.614	.00012	.00000
#2	.00066	.06275	-.00070	.00344	.03395	-.00004	17.583	.00012	-.00005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00049	-.00079	.00531	.29066	.20260	.00167	6.0177	.04470	.04078
Stddev	.00005	.00010	.00119	.01306	.00065	.00050	.0039	.00016	.00004
%RSD	9.1803	12.731	22.365	4.4916	.32325	30.057	.06550	.34891	.10469

#1	.00046	-.00072	.00447	.28143	.20306	.00131	6.0205	.04481	.04075
#2	.00052	-.00087	.00614	.29989	.20213	.00202	6.0149	.04459	.04081

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00030	1.7827	-.00043	-.00090	2.888	-.00047	-.00124	1.3816	-.00049
Stddev	.00011	.0026	.00006	.00046	.012	.00045	.00076	.0039	.00019
%RSD	37.443	.14833	13.877	51.016	.4200	95.882	60.885	.28415	39.019

#1	.00022	1.7809	-.00039	-.00057	2.879	-.00079	-.00178	1.3843	-.00036
#2	.00038	1.7846	-.00048	-.00122	2.897	-.00015	-.00071	1.3788	-.00063

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.17605	.00057	-.00124	.00010	.00054
Stddev	.00054	.00020	.00305	.00003	.00012
%RSD	.30710	34.441	247.27	29.625	21.368

#1	.17643	.00043	.00092	.00012	.00046
#2	.17567	.00071	-.00340	.00008	.00062

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4839.9	7791.3	88522.	10319.
Stddev	4.6	12.5	50.	12.
%RSD	.09453	.16033	.05611	.11460

#1	4843.2	7800.1	88557.	10328.
#2	4836.7	7782.4	88487.	10311.

Sample Name: 480-45472-F-6-A PDS Acquired: 9/12/2013 5:12:41 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05289	10.657	.21899	.22666	.36497	.22222	93.076	.20334	.20820
Stddev	.00047	.020	.00087	.00034	.00468	.00023	.110	.00030	.00062
%RSD	.88282	.19025	.39594	.14946	1.2823	.10314	.11868	.14802	.29954

#1	.05256	10.671	.21838	.22642	.36166	.22238	93.154	.20355	.20864
#2	.05322	10.642	.21961	.22690	.36828	.22205	92.998	.20313	.20775

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20742	.20841	10.231	11.444	13.606	.22356	39.363	.41599	.39245
Stddev	.00016	.00098	.001	.008	.080	.00075	.169	.00187	.00166
%RSD	.07502	.46998	.00911	.06614	.58487	.33482	.42984	.45032	.42246

#1	.20731	.20772	10.232	11.439	13.550	.22409	39.243	.41466	.39128
#2	.20753	.20911	10.230	11.449	13.662	.22303	39.483	.41731	.39363

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20330	18.806	.20881	.20825	F 13.99	.21233	.20848	17.080	.19308
Stddev	.00023	.014	.00086	.00108	.03	.00068	.00123	.016	.00001
%RSD	.11443	.07198	.41206	.52024	.2346	.32259	.58781	.09379	.00625

#1	.20347	18.816	.20820	.20902	13.96	.21281	.20761	17.068	.19308
#2	.20314	18.797	.20942	.20749	14.01	.21184	.20935	17.091	.19309

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0409	.19447	.21206	.20482	.20115
Stddev	.0022	.00205	.00062	.00143	.00318
%RSD	.20823	1.0518	.29318	.69768	1.5809

#1	1.0424	.19302	.21162	.20381	.19890
#2	1.0394	.19592	.21250	.20583	.20340

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4440.6	7581.9	85797.	10261.
Stddev	1.5	.1	377.	12.
%RSD	.03377	.00149	.43887	.11918

#1	4441.7	7582.0	86063.	10252.
#2	4439.6	7581.8	85531.	10269.

Sample Name: 480-45472-F-6-B MS Acquired: 9/12/2013 5:15:27 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05252	10.365	.20651	.22053	.36626	.21421	96.759	.19927	.20291
Stddev	.00008	.027	.00222	.00080	.00112	.00006	.202	.00061	.00006
%RSD	.14325	.26385	1.0737	.36372	.30471	.02952	.20916	.30600	.02809

#1	.05247	10.346	.20807	.21996	.36705	.21425	96.616	.19884	.20287
#2	.05258	10.384	.20494	.22110	.36547	.21416	96.902	.19970	.20295

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20404	.20324	9.9706	11.299	13.295	.21769	40.642	.42114	.40089
Stddev	.00005	.00008	.0142	.033	.129	.00063	.018	.00131	.00040
%RSD	.02485	.04004	.14221	.28873	.96709	.28962	.04364	.30991	.09947

#1	.20408	.20318	9.9806	11.275	13.204	.21724	40.629	.42021	.40061
#2	.20401	.20330	9.9606	11.322	13.386	.21814	40.654	.42206	.40117

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20068	19.029	.20320	.20067	F 14.75	.20877	.20297	16.932	.19355
Stddev	.00036	.013	.00113	.00068	.01	.00196	.00111	.068	.00003
%RSD	.17858	.06677	.55806	.33779	.0635	.93887	.54654	.40254	.01536

#1	.20043	19.020	.20400	.20019	14.75	.21016	.20218	16.884	.19353
#2	.20094	19.038	.20240	.20115	14.76	.20739	.20375	16.980	.19357

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0857	.18798	.20510	.19703	.19952
Stddev	.0010	.00007	.00132	.00052	.00074
%RSD	.08721	.03851	.64310	.26492	.37302

#1	1.0850	.18803	.20603	.19740	.20005
#2	1.0863	.18793	.20416	.19666	.19900

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4435.3	7574.4	85809.	10323.
Stddev	4.6	2.0	85.	13.
%RSD	.10412	.02577	.09899	.12910

#1	4432.1	7575.8	85749.	10332.
#2	4438.6	7573.0	85869.	10313.

Sample Name: 480-45472-F-6-C MSD Acquired: 9/12/2013 5:18:13 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05270	10.313	.20685	.22058	.36618	.21414	98.379	.19982	.20328
Stddev	.00017	.065	.00035	.00061	.00020	.00082	.229	.00010	.00043
%RSD	.31574	.63331	.17019	.27519	.05427	.38519	.23236	.05170	.21116

#1	.05258	10.360	.20660	.22016	.36604	.21472	98.541	.19989	.20359
#2	.05282	10.267	.20710	.22101	.36632	.21355	98.217	.19974	.20298

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20447	.20349	10.011	11.256	13.185	.21494	41.425	.42701	.40338
Stddev	.00057	.00002	.012	.010	.189	.00032	.005	.00004	.00059
%RSD	.27962	.01011	.12044	.09260	1.4354	.14780	.01239	.00868	.14704

#1	.20407	.20351	10.019	11.264	13.319	.21516	41.429	.42699	.40296
#2	.20488	.20348	10.002	11.249	13.051	.21471	41.422	.42704	.40380

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20109	19.100	.20374	.20248	F 15.06	.20733	.20397	17.072	.19247
Stddev	.00064	.018	.00008	.00067	.04	.00097	.00353	.036	.00142
%RSD	.31868	.09431	.04080	.33314	.2496	.46621	1.7288	.20948	.73539

#1	.20155	19.112	.20368	.20200	15.04	.20801	.20646	17.097	.19348
#2	.20064	19.087	.20380	.20295	15.09	.20665	.20147	17.047	.19147

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0990	.18889	.20321	.19559	.19715
Stddev	.0039	.00017	.00115	.00011	.00056
%RSD	.35818	.09130	.56616	.05604	.28173

#1	1.1017	.18877	.20402	.19551	.19676
#2	1.0962	.18901	.20240	.19567	.19755

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4435.5	7573.2	86057.	10297.
Stddev	3.4	7.2	178.	21.
%RSD	.07757	.09450	.20698	.20167

#1	4438.0	7578.3	86183.	10282.
#2	4433.1	7568.2	85931.	10312.

Sample Name: 480-45472-F-7-A Acquired: 9/12/2013 5:21:00 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00063	.03543	.00077	.16444	.02748	-.00003	63.460	.00029	.00067
Stddev	.00042	.00299	.00064	.00088	.00001	.00003	.004	.00011	.00005
%RSD	67.220	8.4432	83.647	.53420	.02502	93.030	.00638	36.489	7.5671

#1	.00093	.03755	.00123	.16382	.02747	-.00001	63.457	.00037	.00063
#2	.00033	.03332	.00032	.16506	.02748	-.00005	63.463	.00022	.00070

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00139	.00032	.00854	4.5747	6.0326	.07178	96.145	.20847	.19851
Stddev	.00022	.00009	.00149	.0153	.0477	.00092	.137	.00024	.00082
%RSD	15.682	29.414	17.428	.33388	.79129	1.2856	.14258	.11377	.41260

#1	.00155	.00025	.00959	4.5639	5.9989	.07243	96.242	.20864	.19909
#2	.00124	.00038	.00748	4.5855	6.0664	.07112	96.048	.20830	.19793

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_2243)	(Y_3774)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00258	48.715	50.672	.00002	-.00374	F 36.68	-.00031	-.00069	7.0955
Stddev	.00011	.088	.019	.00016	.00124	.10	.00074	.00105	.0318
%RSD	4.4305	.18049	.03669	637.54	33.204	.2769	238.29	151.56	.44835

#1	.00250	48.777	50.685	-.00009	-.00462	36.75	.00021	.00005	7.0730
#2	.00266	48.653	50.659	.00014	-.00286	36.61	-.00084	-.00144	7.1180

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						10.00			
Low Limit						-.0100			

Elem	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00056	2.8975	.00084	-.00221	-.00026	.00452
Stddev	.00032	.0053	.00007	.00017	.00008	.00016
%RSD	58.361	.18425	8.3372	7.5901	29.973	3.5797

#1	-.00033	2.9013	.00089	-.00209	-.00032	.00441
#2	-.00079	2.8937	.00079	-.00233	-.00021	.00464

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4387.6	7449.9	84478.	10324.
Stddev	.3	4.0	107.	30.
%RSD	.00663	.05399	.12632	.28911
#1	4387.8	7447.1	84403.	10345.
#2	4387.3	7452.8	84554.	10303.

Sample Name: 480-45466-E-1-A Acquired: 9/12/2013 5:23:46 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00041	.21508	.00142	.08092	.14371	-.00008	79.476	.00056	-.00002
Stddev	.00047	.01216	.00189	.00046	.00036	.00001	.188	.00004	.00022
%RSD	116.56	5.6534	132.48	.56608	.25120	12.886	.23699	6.8391	1198.9

#1	.00007	.22367	.00009	.08059	.14396	-.00009	79.609	.00059	.00014
#2	.00074	.20648	.00276	.08124	.14345	-.00007	79.343	.00054	-.00017

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00087	.00066	2.8020	1.7494	1.9634	.01682	27.466	.09254	.08748
Stddev	.00021	.00035	.0147	.0507	.0060	.00069	.024	.00026	.00032
%RSD	23.864	53.011	.52359	2.9000	.30381	4.1212	.08583	.28224	.37114

#1	.00101	.00090	2.8124	1.7853	1.9592	.01633	27.449	.09235	.08725
#2	.00072	.00041	2.7917	1.7136	1.9676	.01731	27.483	.09272	.08771

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00929	8.8160	.00011	-.00253	F 26.07	-.00108	-.00289	7.8962	-.00047
Stddev	.00016	.0031	.00006	.00011	.03	.00023	.00266	.0544	.00050
%RSD	1.6724	.03544	52.660	4.1673	.1090	21.194	91.878	.68917	106.11

#1	.00940	8.8138	.00014	-.00260	26.09	-.00124	-.00101	7.9347	-.00012
#2	.00918	8.8182	.00007	-.00245	26.05	-.00092	-.00477	7.8577	-.00083

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.52956	.00387	-.00099	.00011	.00299
Stddev	.00027	.00036	.00086	.00011	.00000
%RSD	.05085	9.3999	86.888	104.45	.10359

#1	.52975	.00412	-.00159	.00003	.00298
#2	.52937	.00361	-.00038	.00019	.00299

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4567.0	7543.0	86003.	10252.
Stddev	6.7	2.2	367.	16.
%RSD	.14739	.02982	.42671	.15867

#1	4571.7	7544.6	85744.	10240.
#2	4562.2	7541.4	86263.	10263.

Sample Name: 480-45466-E-2-A Acquired: 9/12/2013 5:26:33 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00048	.06336	.00015	.02114	.03199	-.00003	65.657	.00025	.00018
Stddev	.00026	.00790	.00083	.00001	.00002	.00004	.162	.00005	.00004
%RSD	54.991	12.465	566.44	.04513	.05007	159.89	.24627	21.335	22.272

#1	.00029	.06894	.00074	.02113	.03198	.00000	65.543	.00029	.00020
#2	.00066	.05778	-.00044	.02115	.03201	-.00006	65.772	.00022	.00015

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00078	.00003	.03856	3.8461	4.9410	.02292	19.719	.03517	.03293
Stddev	.00015	.00004	.00082	.0062	.0019	.00071	.025	.00008	.00012
%RSD	18.700	153.89	2.1285	.15984	.03756	3.0883	.12758	.23946	.37545

#1	.00088	.00006	.03914	3.8417	4.9397	.02242	19.737	.03523	.03284
#2	.00068	-.00000	.03798	3.8504	4.9423	.02342	19.701	.03511	.03301

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00608	51.557	.00025	-.00147	F 61.14	-.00048	-.00027	4.9174	-.00067
Stddev	.00011	.017	.00009	.00035	.06	.00187	.00115	.0375	.00029
%RSD	1.7661	.03304	37.873	23.846	.0948	393.32	427.74	.76196	42.526

#1	.00615	51.569	.00031	-.00122	61.18	.00085	.00055	4.8909	-.00047
#2	.00600	51.545	.00018	-.00172	61.09	-.00180	-.00109	4.9439	-.00087

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.32446	.00053	-.00290	.00083	.00191
Stddev	.00001	.00001	.00219	.00010	.00041
%RSD	.00340	1.8717	75.637	11.478	21.510

#1	.32447	.00053	-.00135	.00076	.00220
#2	.32445	.00054	-.00445	.00090	.00162

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4532.5	7520.5	85775.	10333.
Stddev	9.6	.6	51.	23.
%RSD	.21190	.00820	.05911	.22468
#1	4525.7	7520.1	85811.	10349.
#2	4539.3	7520.9	85739.	10317.

Sample Name: 480-45466-E-3-A Acquired: 9/12/2013 5:29:21 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00010	.03388	.00009	.03691	.15176	-0.00006	44.514	.00024	-0.00010
Stddev	.00034	.00199	.00174	.00009	.00029	.00006	.048	.00003	.00018
%RSD	333.47	5.8594	1874.8	.25212	.18909	92.931	.10805	10.589	191.00

#1	-.00014	.03529	-.00114	.03697	.15155	-.00010	44.548	.00025	-.00022
#2	.00034	.03248	.00133	.03684	.15196	-.00002	44.480	.00022	.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00063	.00208	.01045	1.1998	1.3907	.00419	13.007	.00556	.00533
Stddev	.00007	.00003	.00213	.0339	.0089	.00055	.020	.00006	.00033
%RSD	11.532	1.5513	20.387	2.8220	.63840	13.133	.15624	1.1525	6.1494

#1	.00058	.00211	.00895	1.1759	1.3844	.00458	13.021	.00560	.00556
#2	.00068	.00206	.01196	1.2238	1.3970	.00380	12.993	.00551	.00510

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01385	35.550	.00134	-0.00184	F 12.71	-0.00033	-0.00175	4.6950	-0.00015
Stddev	.00023	.030	.00010	.00017	.01	.00076	.00180	.0131	.00011
%RSD	1.6412	.08448	7.4463	9.0586	.0650	229.51	103.22	.27984	69.433

#1	.01369	35.571	.00127	-.00196	12.72	.00021	-.00047	4.7043	-.00008
#2	.01401	35.529	.00141	-.00172	12.71	-.00087	-.00302	4.6857	-.00023

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.26677	.00067	-0.00315	.00019	.00545
Stddev	.00004	.00016	.00045	.00017	.00008
%RSD	.01325	24.155	14.448	91.230	1.3969

#1	.26674	.00056	-.00347	.00007	.00539
#2	.26679	.00079	-.00283	.00031	.00550

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4621.0	7625.6	86507.	10317.
Stddev	.8	2.2	275.	50.
%RSD	.01635	.02874	.31757	.48724

#1	4621.6	7627.2	86312.	10281.
#2	4620.5	7624.1	86701.	10352.

Sample Name: 480-45466-E-4-A Acquired: 9/12/2013 5:32:09 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0010	.05300	-0.00134	.06661	.13686	-0.00003	75.313	.00037	-0.00007
Stddev	.00038	.01420	.00108	.00039	.00017	.00003	.025	.00002	.00009
%RSD	380.81	26.796	81.013	.59185	.12764	104.99	.03380	4.2387	125.51

#1	.00017	.04296	-.00210	.06688	.13698	-.00005	75.295	.00036	-.00014
#2	-.00037	.06304	-.00057	.06633	.13674	-.00001	75.331	.00038	-.00001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00050	.00076	1.5861	1.3478	1.4905	.01882	27.145	.08233	.07686
Stddev	.00025	.00012	.0068	.0145	.0100	.00006	.114	.00005	.00082
%RSD	50.082	15.467	.43026	1.0773	.66971	.32199	.42032	.05580	1.0702

#1	.00068	.00085	1.5909	1.3375	1.4976	.01878	27.064	.08229	.07628
#2	.00032	.00068	1.5813	1.3581	1.4835	.01886	27.225	.08236	.07744

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00817	8.7801	-0.00043	-0.00320	F 22.32	-0.00008	-0.00030	6.9687	-0.00023
Stddev	.00003	.0022	.00020	.00064	.02	.00244	.00238	.0042	.00005
%RSD	.40004	.02466	46.105	20.121	.1028	3189.9	780.86	.05994	21.454

#1	.00819	8.7785	-.00029	-.00366	22.34	.00165	.00138	6.9658	-.00027
#2	.00814	8.7816	-.00057	-.00274	22.31	-.00180	-.00199	6.9717	-.00020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.54140	.00050	-0.00271	.00011	.00401
Stddev	.00072	.00023	.00211	.00008	.00017
%RSD	.13379	45.748	78.080	71.378	4.1267

#1	.54191	.00034	-.00121	.00016	.00389
#2	.54089	.00067	-.00420	.00005	.00413

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4586.2	7553.4	86616.	10398.
Stddev	5.1	1.9	325.	9.
%RSD	.11080	.02559	.37506	.08641

#1	4589.8	7552.0	86846.	10392.
#2	4582.6	7554.7	86386.	10405.

Sample Name: CCV Acquired: 9/12/2013 5:34:59 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49706	24.687	.49717	.47751	.49824	.51078	24.815	.47518	.48946	.49837	.48776	24.028
Stddev	.00145	.036	.00300	.00059	.00091	.00051	.048	.00071	.00012	.00068	.00211	.050
%RSD	.29153	.14503	.60425	.12396	.18318	.09936	.19326	.14992	.02466	.13670	.43306	.20929

#1	.49603	24.661	.49929	.47709	.49889	.51114	24.848	.47467	.48937	.49789	.48626	23.992
#2	.49808	24.712	.49504	.47793	.49760	.51042	24.781	.47568	.48954	.49886	.48925	24.063

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.786	26.159	.49277	23.921	.50423	.47086	.47576	23.943	.49869	.49480	25.26	.50973
Stddev	.023	.150	.00071	.061	.00017	.00510	.00097	.024	.00046	.00030	.02	.00013
%RSD	.09439	.57515	.14326	.25389	.03305	1.0821	.20353	.09855	.09258	.06027	.0900	.02470

#1	24.802	26.266	.49227	23.879	.50411	.46726	.47507	23.926	.49902	.49501	25.24	.50964
#2	24.769	26.053	.49327	23.964	.50434	.47447	.47644	23.960	.49837	.49459	25.27	.50982

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48440	24.332	.47989	.49137	.47030	.50076	.47586	.48518
Stddev	.00378	.093	.00286	.00063	.00016	.00216	.00181	.00152
%RSD	.77936	.38170	.59577	.12780	.03410	.43200	.38014	.31351

#1	.48707	24.398	.47787	.49093	.47041	.50229	.47458	.48411
#2	.48173	24.267	.48191	.49181	.47018	.49923	.47714	.48626

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4589.2	7767.2	87299.	10303.
Stddev	3.8	5.1	329.	31.
%RSD	.08233	.06596	.37642	.30270
#1	4586.5	7770.8	87532.	10281.
#2	4591.8	7763.6	87067.	10325.

Sample Name: CCB Acquired: 9/12/2013 5:37:46 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00029	.03068	.00000	.00018	.00005	.00001	.00187	-.00002	.00009	.00016	-.00116	.00296
Stddev	.00028	.00809	.00231	.00028	.00000	.00003	.00214	.00003	.00001	.00007	.00011	.00068
%RSD	95.752	26.372	90091.	153.74	7.0890	237.87	114.00	176.37	7.3030	41.864	9.2975	22.944

#1	.00010	.03640	.00163	.00038	.00005	.00004	.00338	-.00004	.00009	.00011	-.00108	.00248
#2	.00049	.02496	-.00163	-.00002	.00006	-.00001	.00036	.00000	.00009	.00021	-.00123	.00344

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11091	.00201	-.00120	.00095	.00005	.00027	.00043	-.00801	-.00031	-.00064	F .0052	-.00047
Stddev	.00073	.00018	.00009	.00396	.00002	.00024	.00001	.00153	.00011	.00042	.0003	.00028
%RSD	.66131	9.1896	7.4568	415.27	49.092	90.355	3.3728	19.068	35.595	66.371	5.364	60.217

#1	.11040	.00214	-.00114	-.00185	.00003	.00044	.00044	-.00909	-.00039	-.00094	.0050	-.00027
#2	.11143	.00188	-.00126	.00375	.00006	.00010	.00042	-.00693	-.00023	-.00034	.0054	-.00066

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00326	.01008	-.00020	.00017	.00004	-.00172	.00025	-.00079
Stddev	.00060	.00176	.00120	.00002	.00011	.00030	.00024	.00004
%RSD	18.297	17.498	610.55	10.962	262.52	17.721	94.201	4.6752

#1	-.00368	.01133	.00065	.00015	-.00003	-.00150	.00008	-.00077
#2	-.00283	.00883	-.00104	.00018	.00012	-.00193	.00042	-.00082

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4981.5	7913.1	90018.	10353.
Stddev	2.1	1.6	79.	29.
%RSD	.04139	.02004	.08768	.27578
#1	4980.0	7912.0	90073.	10332.
#2	4982.9	7914.2	89962.	10373.

Sample Name: 480-45466-E-5-A Acquired: 9/12/2013 5:40:39 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	2.1505	.00200	.03439	.15879	.00001	179.70	.00273	.00251
Stddev	.00098	.0259	.00306	.00020	.00001	.00000	.03	.00003	.00001
%RSD	828.24	1.2024	152.76	.58070	.00460	12.184	.01577	1.1452	.20646

#1	.00081	2.1688	.00417	.03454	.15880	.00002	179.68	.00271	.00251
#2	-.00058	2.1322	-.00016	.03425	.15879	.00001	179.72	.00275	.00252

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00323	.00330	1.9238	2.4732	3.8956	.02923	50.758	.25462	.25041
Stddev	.00033	.00001	.0010	.0213	.0351	.00111	.095	.00004	.00093
%RSD	10.102	.22294	.05474	.86043	.90207	3.8117	.18744	.01446	.37013

#1	.00346	.00331	1.9230	2.4883	3.8708	.03002	50.825	.25459	.25106
#2	.00300	.00330	1.9245	2.4582	3.9205	.02844	50.690	.25464	.24975

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00240	204.68	.00644	-.00278	F 34.69	-.00211	-.00229	10.202	-.00009
Stddev	.00004	.57	.00069	.00009	.07	.00150	.00332	.068	.00050
%RSD	1.7599	.27720	10.700	3.1967	.1973	71.283	144.77	.66691	560.69

#1	.00243	204.27	.00693	-.00272	34.74	-.00104	.00005	10.250	.00026
#2	.00237	205.08	.00595	-.00285	34.65	-.00317	-.00464	10.154	-.00044

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.33901	.04589	-.00233	.00481	.01551
Stddev	.00035	.00341	.00075	.00006	.00045
%RSD	.10268	7.4227	32.045	1.2303	2.8704

#1	.33926	.04348	-.00180	.00477	.01520
#2	.33877	.04830	-.00286	.00486	.01583

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4154.6	7254.9	81967.	10305.
Stddev	5.6	10.6	186.	21.
%RSD	.13517	.14665	.22637	.20251

#1	4150.6	7247.3	81835.	10319.
#2	4158.5	7262.4	82098.	10290.

Sample Name: 480-45466-E-6-A Acquired: 9/12/2013 5:43:37 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00050	.22624	-.00007	.02152	.12413	.00001	132.68	.00159	-.00011
Stddev	.00012	.00377	.00135	.00000	.00020	.00001	.36	.00008	.00022
%RSD	23.514	1.6664	1807.3	.02301	.15829	213.04	.27411	5.2860	206.83

#1	.00059	.22357	-.00103	.02153	.12427	-.00000	132.42	.00165	-.00026
#2	.00042	.22890	.00088	.02152	.12399	.00001	132.94	.00153	.00005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00099	.00049	.16599	.84610	1.0004	.01207	44.512	.01206	.01130
Stddev	.00001	.00003	.00140	.00872	.0005	.00078	.006	.00003	.00015
%RSD	1.3467	5.9347	.84497	1.0308	.04699	6.4679	.01456	.25134	1.3292

#1	.00100	.00051	.16500	.83994	1.0001	.01262	44.508	.01208	.01141
#2	.00098	.00047	.16699	.85227	1.0007	.01152	44.517	.01204	.01119

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00135	8.1786	.00049	-.00296	F 12.13	-.00134	-.00170	7.3121	-.00031
Stddev	.00017	.0114	.00043	.00191	.06	.00101	.00010	.0069	.00080
%RSD	12.432	.13933	88.392	64.615	.4545	75.350	5.6903	.09399	259.00

#1	.00147	8.1705	.00018	-.00161	12.17	-.00062	-.00177	7.3072	-.00088
#2	.00123	8.1866	.00079	-.00431	12.09	-.00205	-.00163	7.3169	.00026

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20757	.00439	-.00213	.00089	.00250
Stddev	.00009	.00059	.00096	.00030	.00010
%RSD	.04105	13.550	44.980	33.240	3.9161

#1	.20763	.00397	-.00280	.00068	.00257
#2	.20751	.00481	-.00145	.00110	.00243

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4460.4	7485.4	85464.	10300.
Stddev	2.0	1.1	20.	1.
%RSD	.04469	.01418	.02312	.01235
#1	4459.0	7484.6	85478.	10301.
#2	4461.8	7486.1	85450.	10299.

Sample Name: 480-45466-E-7-A Acquired: 9/12/2013 5:46:25 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00067	.46852	.00047	.02372	.05509	-.00003	191.88	.00359	.00069
Stddev	.00041	.00684	.00033	.00052	.00020	.00004	.17	.00006	.00010
%RSD	61.151	1.4608	70.526	2.1733	.35765	165.19	.08786	1.6326	15.189

#1	.00038	.46368	.00023	.02408	.05495	-.00006	192.00	.00363	.00061
#2	.00096	.47336	.00070	.02335	.05523	.00000	191.76	.00354	.00076

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00117	.00072	1.5163	1.9400	2.7895	.02233	64.487	.28516	.27614
Stddev	.00010	.00022	.00059	.0298	.0237	.00019	.042	.00037	.00137
%RSD	8.2740	29.992	.38672	1.5375	.84906	.83564	.06512	.13094	.49474

#1	.00110	.00057	1.5204	1.9189	2.8063	.02220	64.457	.28542	.27517
#2	.00123	.00087	1.5121	1.9611	2.7728	.02246	64.517	.28490	.27710

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00214	74.361	.00202	-.00264	F 74.92	-.00043	-.00248	9.5314	-.00012
Stddev	.00031	.053	.00073	.00040	.18	.00150	.00261	.0284	.00015
%RSD	14.579	.07188	35.868	15.096	.2424	346.76	105.06	.29785	128.02

#1	.00236	74.399	.00151	-.00292	75.05	-.00149	-.00064	9.5114	-.00001
#2	.00192	74.324	.00254	-.00235	74.79	.00063	-.00432	9.5515	-.00022

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.27872	.01011	-.00199	.00080	.00596
Stddev	.00025	.00007	.00198	.00024	.00027
%RSD	.09077	.69261	99.508	30.249	4.4844

#1	.27890	.01016	-.00059	.00097	.00615
#2	.27854	.01006	-.00339	.00063	.00577

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4253.1	7258.9	82989.	10303.
Stddev	3.0	.4	319.	64.
%RSD	.07029	.00552	.38479	.61753

#1	4251.0	7258.6	83215.	10258.
#2	4255.2	7259.2	82763.	10348.

Sample Name: 480-45476-C-1-A Acquired: 9/12/2013 5:49:18 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00004	.42629	-.00059	.02602	.03793	-.00002	103.71	.00022	.00002
Stddev	.00007	.00895	.00081	.00005	.00008	.00000	.28	.00002	.00009
%RSD	169.95	2.0996	137.82	.17544	.20722	14.308	.27326	10.742	448.17

#1	.00009	.41996	-.00116	.02599	.03799	-.00002	103.91	.00024	.00008
#2	-.00001	.43262	-.00002	.02606	.03788	-.00002	103.51	.00021	-.00004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00095	.00019	.44352	1.4793	1.6883	.00127	20.068	.03391	.03190
Stddev	.00061	.00029	.00159	.0077	.0017	.00126	.003	.00008	.00096
%RSD	63.858	152.92	.35948	.52394	.09836	99.246	.01650	.23766	3.0027

#1	.00052	-.00002	.44239	1.4738	1.6895	.00216	20.066	.03397	.03258
#2	.00138	.00040	.44464	1.4848	1.6871	.00038	20.070	.03386	.03123

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00016	13.212	.00073	-.00071	8.609	-.00192	-.00130	5.4136	-.00004
Stddev	.00019	.037	.00012	.00024	.011	.00165	.00179	.0171	.00047
%RSD	121.73	.27731	16.731	34.464	.1314	85.646	137.35	.31645	1201.8

#1	.00030	13.238	.00082	-.00053	8.601	-.00076	-.00257	5.4257	-.00037
#2	.00002	13.187	.00065	-.00088	8.617	-.00309	-.00004	5.4015	.00029

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.47895	.00843	-.00334	.00094	.00297
Stddev	.00125	.00014	.00021	.00004	.00053
%RSD	.26169	1.6844	6.3500	4.1270	17.817

#1	.47984	.00833	-.00349	.00097	.00259
#2	.47806	.00854	-.00319	.00091	.00334

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4540.9	7559.4	85944.	10297.
Stddev	11.2	15.4	98.	55.
%RSD	.24663	.20310	.11373	.53471

#1	4533.0	7548.5	85875.	10258.
#2	4548.8	7570.3	86013.	10335.

Sample Name: 480-45476-C-2-A Acquired: 9/12/2013 5:52:05 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00018	4.5626	.00168	.01837	.02969	.00025	28.197	.00004	.00205
Stddev	.00010	.0049	.00113	.00037	.00003	.00010	.148	.00006	.00003
%RSD	56.789	.10734	67.360	2.0155	.11565	38.946	.52619	136.30	1.3336

#1	.00025	4.5661	.00249	.01863	.02971	.00018	28.302	.00000	.00203
#2	.00011	4.5591	.00088	.01811	.02966	.00032	28.092	.00008	.00207

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00622	.01045	4.1064	4.9583	4.9923	.00285	2.0108	.13757	.12521
Stddev	.00052	.00019	.0077	.0149	.0481	.00019	.0080	.00072	.00169
%RSD	8.3354	1.8482	.18662	.30124	.96411	6.8219	.39604	.52309	1.3480

#1	.00586	.01059	4.1118	4.9689	5.0263	.00299	2.0051	.13706	.12402
#2	.00659	.01032	4.1009	4.9477	4.9583	.00271	2.0164	.13808	.12640

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00043	.48568	.00536	.00115	2.422	-.00091	-.00250	7.7913	-.00019
Stddev	.00017	.00565	.00041	.00106	.003	.00107	.00059	.0691	.00010
%RSD	39.209	1.1636	7.7190	92.193	.1030	118.01	23.379	.88635	49.579

#1	.00031	.48968	.00565	.00040	2.420	-.00167	-.00292	7.8402	-.00012
#2	.00055	.48169	.00507	.00190	2.424	-.00015	-.00209	7.7425	-.00026

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.16892	.09642	-.00242	.00799	.01809
Stddev	.00028	.00022	.00039	.00020	.00005
%RSD	.16474	.22857	15.939	2.4443	.27026

#1	.16873	.09627	-.00215	.00813	.01813
#2	.16912	.09658	-.00269	.00785	.01806

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4809.3	7854.7	89787.	10480.
Stddev	1.2	7.9	118.	75.
%RSD	.02533	.10099	.13183	.71515

#1	4810.2	7849.1	89871.	10427.
#2	4808.5	7860.3	89703.	10533.

Sample Name: 480-45476-G-3-A Acquired: 9/12/2013 5:54:53 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00060	.42354	.00036	.02541	.03630	.00001	99.714	.00013	.00015
Stddev	.00027	.00577	.00053	.00029	.00012	.00003	.558	.00005	.00007
%RSD	44.864	1.3623	148.44	1.1409	.31811	432.76	.55977	36.761	47.935

#1	.00041	.41946	.00073	.02561	.03638	-.00001	100.11	.00016	.00020
#2	.00079	.42762	-.00002	.02520	.03622	.00003	99.320	.00010	.00010

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00108	.00013	.41654	1.3890	1.6242	.00270	19.489	.02798	.02550
Stddev	.00008	.00034	.00137	.0081	.0111	.00081	.035	.00006	.00016
%RSD	7.0089	268.89	.32867	.58511	.68204	30.113	.18164	.22092	.61204

#1	.00113	-.00011	.41558	1.3833	1.6320	.00328	19.464	.02803	.02539
#2	.00103	.00037	.41751	1.3948	1.6164	.00213	19.514	.02794	.02561

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00009	12.808	.00082	-.00228	8.346	-.00007	-.00116	5.2985	-.00018
Stddev	.00024	.064	.00010	.00064	.014	.00047	.00281	.0123	.00026
%RSD	275.46	.50305	11.922	27.937	.1625	692.46	241.08	.23129	145.26

#1	.00025	12.854	.00089	-.00273	8.337	-.00040	-.00315	5.3071	-.00036
#2	-.00008	12.762	.00075	-.00183	8.356	.00026	.00082	5.2898	.00000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.46298	.00828	.00038	.00082	.00327
Stddev	.00167	.00031	.00054	.00032	.00011
%RSD	.36130	3.6859	140.54	38.764	3.4014

#1	.46416	.00849	.00077	.00060	.00335
#2	.46180	.00806	.00000	.00105	.00319

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4545.1	7554.4	86409.	10381.
Stddev	14.3	3.8	82.	78.
%RSD	.31474	.05077	.09467	.75497

#1	4535.0	7557.1	86352.	10325.
#2	4555.2	7551.7	86467.	10436.

Sample Name: 480-45476-G-4-A Acquired: 9/12/2013 5:57:41 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	4.9619	.00280	.02029	.02690	.00019	23.509	-0.0001	.00187
Stddev	.00021	.0221	.00199	.00003	.00001	.00007	.103	.00000	.00002
%RSD	139.51	.44454	71.124	.16633	.01865	34.156	.43740	14.162	1.0051

#1	.00000	4.9775	.00420	.02027	.02690	.00024	23.582	-0.0002	.00186
#2	.00030	4.9463	.00139	.02032	.02690	.00015	23.436	-0.0001	.00189

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00679	.00930	4.6345	5.4761	5.4635	.00170	1.8543	.09889	.09024
Stddev	.00006	.00022	.0112	.0258	.0097	.00056	.0050	.00005	.00027
%RSD	.82319	2.3581	.24227	.47195	.17821	33.015	.26815	.05331	.29892

#1	.00683	.00946	4.6424	5.4944	5.4704	.00130	1.8508	.09885	.09043
#2	.00676	.00915	4.6265	5.4578	5.4566	.00209	1.8578	.09893	.09005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00051	.40628	.00540	-.00156	2.267	-.00136	-.00187	8.6118	-.00012
Stddev	.00017	.00186	.00013	.00077	.000	.00087	.00055	.0720	.00011
%RSD	34.380	.45805	2.4628	49.160	.0164	63.938	29.648	.83584	96.584

#1	.00038	.40759	.00530	-.00210	2.267	-.00198	-.00148	8.6627	-.00004
#2	.00063	.40496	.00549	-.00102	2.267	-.00075	-.00226	8.5609	-.00020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.13943	.09991	-.00176	.00836	.01859
Stddev	.00051	.00272	.00213	.00005	.00025
%RSD	.36328	2.7211	121.29	.64225	1.3335

#1	.13978	.09799	-.00025	.00840	.01876
#2	.13907	.10183	-.00327	.00832	.01841

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4816.2	7846.6	89627.	10435.
Stddev	8.1	2.5	84.	50.
%RSD	.16806	.03145	.09417	.48246

#1	4810.4	7848.4	89567.	10399.
#2	4821.9	7844.9	89687.	10471.

Sample Name: 480-45475-E-1-A Acquired: 9/12/2013 6:00:28 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00030	.07604	.00265	.01514	.00156	.00000	20.798	.00008	.00004
Stddev	.00033	.00628	.00257	.00020	.00003	.00004	.056	.00001	.00002
%RSD	108.25	8.2580	96.959	1.3417	2.1541	2348.7	.26759	9.7025	53.403

#1	.00007	.07160	.00447	.01499	.00154	-.00003	20.838	.00009	.00003
#2	.00053	.08048	.00083	.01528	.00159	.00003	20.759	.00007	.00006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00133	.00001	.03759	.50227	.43389	.00098	4.4785	.00220	.00205
Stddev	.00024	.00013	.00021	.00755	.00163	.00014	.0029	.00001	.00026
%RSD	18.014	1979.0	.56515	1.5025	.37609	14.786	.06490	.54810	12.491

#1	.00150	-.00009	.03774	.49694	.43504	.00108	4.4806	.00219	.00223
#2	.00116	.00010	.03744	.50761	.43274	.00087	4.4765	.00221	.00187

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00027	3.4639	-.00035	.00213	4.268	-.00126	-.00038	7.7129	-.00025
Stddev	.00007	.0114	.00012	.00147	.005	.00060	.00022	.0034	.00027
%RSD	26.661	.32824	32.722	68.920	.1087	47.944	56.909	.04432	108.30

#1	.00022	3.4559	-.00044	.00317	4.264	-.00083	-.00023	7.7104	-.00006
#2	.00032	3.4720	-.00027	.00109	4.271	-.00168	-.00053	7.7153	-.00044

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.05580	.00156	-.00169	.00393	.00205
Stddev	.00023	.00018	.00161	.00000	.00014
%RSD	.40932	11.224	95.771	.12464	6.9656

#1	.05564	.00168	-.00054	.00393	.00195
#2	.05596	.00144	-.00283	.00394	.00215

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4855.7	7821.8	89039.	10361.
Stddev	6.1	3.5	280.	38.
%RSD	.12583	.04503	.31491	.36343

#1	4860.0	7819.3	88841.	10335.
#2	4851.4	7824.3	89238.	10388.

Sample Name: 480-45475-E-2-A Acquired: 9/12/2013 6:03:16 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00112	.10556	.00069	.01302	.00138	-0.00005	20.131	.00009	-0.00002
Stddev	.00010	.00264	.00012	.00027	.00001	.00000	.022	.00017	.00004
%RSD	8.8134	2.5031	17.601	2.0962	.39124	8.5301	.11025	175.21	149.72

#1	.00119	.10369	.00060	.01322	.00138	-0.00005	20.147	-0.00002	-0.00005
#2	.00105	.10743	.00077	.01283	.00139	-0.00004	20.116	.00021	.00000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00060	-0.00039	.04697	.54234	.44601	.00045	4.3509	.00094	.00071
Stddev	.00012	.00017	.00532	.01051	.00178	.00012	.0005	.00001	.00006
%RSD	20.050	43.943	11.322	1.9386	.39880	26.720	.01145	1.3496	8.6793

#1	.00051	-0.00051	.04321	.53490	.44475	.00053	4.3506	.00093	.00075
#2	.00068	-0.00027	.05073	.54977	.44727	.00036	4.3513	.00095	.00067

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	2.0700	-0.00055	-0.00151	3.529	-0.00026	-0.00160	7.3514	-0.00013
Stddev	.00013	.0113	.00008	.00130	.010	.00002	.00185	.0101	.00008
%RSD	87.884	.54547	15.317	86.381	.2830	9.0882	115.72	.13793	59.397

#1	.00024	2.0620	-0.00049	-0.00059	3.536	-0.00028	-0.00291	7.3442	-0.00007
#2	.00006	2.0780	-0.00060	-0.00243	3.522	-0.00024	-0.00029	7.3586	-0.00018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.04359	.00340	-0.00181	.00299	.00038
Stddev	.00004	.00038	.00041	.00018	.00001
%RSD	.08634	11.029	22.767	6.0602	3.2679

#1	.04361	.00367	-0.00152	.00286	.00039
#2	.04356	.00314	-0.00210	.00311	.00037

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4855.3	7808.0	89647.	10466.
Stddev	1.4	12.3	7.	17.
%RSD	.02850	.15691	.00763	.16411

#1	4856.3	7799.3	89652.	10454.
#2	4854.3	7816.6	89642.	10478.

Sample Name: MB 480-138334/1-A Acquired: 9/12/2013 6:06:05 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00067	.04354	-.00025	.00484	.00021	-.00004	.03453	-.00005	.00007
Stddev	.00049	.00363	.00096	.00007	.00003	.00001	.00041	.00008	.00007
%RSD	73.697	8.3313	375.43	1.5085	15.903	19.519	1.1839	160.77	92.804

#1	.00102	.04097	-.00093	.00479	.00023	-.00005	.03424	.00001	.00012
#2	.00032	.04610	.00042	.00490	.00018	-.00004	.03482	-.00010	.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00012	-.00115	.00243	.09523	-.00089	-.00054	.00179	-.00001	-.00027
Stddev	.00046	.00009	.00124	.01708	.00006	.00117	.00076	.00001	.00051
%RSD	367.77	7.5441	51.112	17.938	6.9310	217.17	42.757	124.95	190.22

#1	-.00020	-.00109	.00331	.10731	-.00094	-.00136	.00125	-.00000	-.00063
#2	.00045	-.00121	.00155	.08315	-.00085	.00029	.00233	-.00002	.00009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00016	.04045	-.00037	-.00047	F .0062	-.00059	-.00220	-.00323	-.00053
Stddev	.00030	.01597	.00022	.00096	.0007	.00059	.00150	.00841	.00006
%RSD	180.54	39.487	58.214	202.84	11.83	100.30	68.499	260.34	11.578

#1	-.00005	.02916	-.00052	-.00115	.0067	-.00100	-.00326	-.00917	-.00049
#2	.00038	.05174	-.00022	.00021	.0057	-.00017	-.00113	.00272	-.00057

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None	Chk Pass
High Limit					.0022				
Low Limit					-.0040				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00045	.00042	-.00163	-.00009	-.00047
Stddev	.00007	.00015	.00027	.00007	.00003
%RSD	14.665	36.546	16.700	74.983	6.0982

#1	.00040	.00031	-.00144	-.00014	-.00049
#2	.00050	.00052	-.00182	-.00004	-.00045

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4985.5	7925.6	90908.	10381.
Stddev	2.1	5.3	55.	25.
%RSD	.04244	.06713	.06033	.23684

#1	4987.0	7929.4	90946.	10363.
#2	4984.0	7921.9	90869.	10398.

Sample Name: CCV Acquired: 9/12/2013 6:08:58 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.49543	24.742	.49768	.47730	.49997	.50880	24.858	.47557	.49033	.49822	.48701	23.904
Stddev	.00050	.136	.00330	.00009	.00294	.00028	.134	.00168	.00001	.00091	.00086	.006
%RSD	.09993	.54803	.66301	.01880	.58822	.05516	.53926	.35283	.00175	.18276	.17622	.02463

#1	.49578	24.838	.49535	.47724	.50205	.50900	24.953	.47675	.49033	.49887	.48641	23.908
#2	.49508	24.646	.50001	.47737	.49789	.50860	24.763	.47438	.49034	.49758	.48762	23.900

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.780	26.058	.49126	23.937	.50395	.46791	.47577	23.924	.49864	.49599	25.21	.50881
Stddev	.032	.200	.00046	.086	.00140	.00246	.00197	.024	.00024	.00107	.01	.00140
%RSD	.12847	.76866	.09265	.35772	.27872	.52592	.41326	.09903	.04900	.21577	.0421	.27470

#1	24.802	25.916	.49159	23.998	.50494	.46965	.47717	23.941	.49882	.49524	25.20	.50980
#2	24.757	26.200	.49094	23.877	.50296	.46617	.47438	23.908	.49847	.49675	25.21	.50782

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48385	24.290	.48158	.49146	.47003	.50081	.47566	.48375
Stddev	.00231	.073	.00183	.00012	.00091	.00054	.00100	.00011
%RSD	.47640	.30112	.37987	.02408	.19352	.10845	.21116	.02357

#1	.48548	24.342	.48288	.49137	.46938	.50043	.47637	.48383
#2	.48222	24.238	.48029	.49154	.47067	.50119	.47495	.48367

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4588.7	7767.8	87520.	10311.
Stddev	11.7	3.0	242.	18.
%RSD	.25491	.03826	.27693	.17268
#1	4597.0	7765.7	87348.	10299.
#2	4580.5	7769.9	87691.	10324.

Sample Name: CCB Acquired: 9/12/2013 6:11:45 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00062	.03489	-.00079	-.00021	.00008	-.00001	.00105	.00004	-.00000	-.00003	-.00134	.00265
Stddev	.00073	.00890	.00233	.00015	.00005	.00004	.00035	.00008	.00008	.00040	.00002	.00370
%RSD	117.39	25.519	296.31	71.320	61.007	573.87	33.502	195.60	2406.5	1522.6	1.6388	139.90

#1	.00114	.04119	.00086	-.00032	.00011	-.00003	.00129	.00010	.00005	-.00031	-.00132	.00003
#2	.00011	.02860	-.00244	-.00011	.00004	.00002	.00080	-.00002	-.00006	.00026	-.00135	.00526

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.11377	.00073	-.00072	.00274	.00007	.00003	.00021	-.01668	-.00032	-.00168	F .0052	-.00161
Stddev	.03649	.00069	.00066	.00558	.00006	.00014	.00001	.00118	.00035	.00066	.0035	.00054
%RSD	32.075	94.446	91.716	203.95	76.426	459.11	5.0532	7.0607	108.07	39.139	68.46	33.893

#1	.13957	.00122	-.00025	.00669	.00003	.00013	.00020	-.01585	-.00008	-.00214	.0077	-.00122
#2	.08796	.00024	-.00119	-.00121	.00011	-.00007	.00021	-.01751	-.00057	-.00121	.0027	-.00199

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00250	.01562	-.00009	.00020	.00013	-.00119	.00022	-.00053
Stddev	.00087	.01357	.00005	.00017	.00012	.00164	.00025	.00036
%RSD	34.763	86.896	58.003	86.802	96.489	138.23	111.68	68.591

#1	-.00189	.00602	-.00012	.00033	.00004	-.00003	.00040	-.00027
#2	-.00312	.02521	-.00005	.00008	.00022	-.00235	.00005	-.00078

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4980.7	7915.8	89723.	10311.
Stddev	3.0	1.9	407.	48.
%RSD	.06042	.02403	.45308	.46735
#1	4978.6	7914.4	90011.	10277.
#2	4982.9	7917.1	89436.	10345.

Sample Name: LCS 480-138334/2-A Acquired: 9/12/2013 6:14:38 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05116	10.054	.19907	.21994	.20217	.20963	9.9272	.19574	.19956
Stddev	.00087	.010	.00360	.00057	.00056	.00022	.0212	.00024	.00070
%RSD	1.6987	.09850	1.8095	.25997	.27830	.10513	.21345	.12373	.35184

#1	.05054	10.047	.20162	.22035	.20177	.20948	9.9122	.19557	.19906
#2	.05177	10.061	.19653	.21954	.20257	.20979	9.9422	.19591	.20005

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20325	.19825	9.9293	9.9039	10.300	.19815	10.149	.20456	.18946
Stddev	.00127	.00027	.0295	.0039	.121	.00035	.013	.00043	.00080
%RSD	.62728	.13490	.29722	.03938	1.1773	.17650	.13278	.20939	.42124

#1	.20235	.19806	9.9085	9.9012	10.385	.19839	10.158	.20487	.18890
#2	.20415	.19844	9.9502	9.9067	10.214	.19790	10.139	.20426	.19003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19867	10.082	.20058	.19937	F .0050	.20289	.19809	9.8210	.18553
Stddev	.00028	.005	.00026	.00199	.0012	.00078	.00009	.0046	.00009
%RSD	.14284	.05292	.13013	.99917	24.61	.38249	.04300	.04649	.04821

#1	.19847	10.086	.20077	.19796	.0041	.20344	.19815	9.8242	.18559
#2	.19887	10.078	.20040	.20078	.0058	.20235	.19803	9.8178	.18547

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					11.50				
Low Limit					8.500				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.19964	.18480	.20124	.19297	.19443
Stddev	.00004	.00081	.00174	.00049	.00030
%RSD	.01960	.44090	.86343	.25544	.15325

#1	.19961	.18422	.20247	.19262	.19464
#2	.19966	.18537	.20001	.19332	.19422

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4752.2	7819.4	88985.	10518.
Stddev	.6	.5	209.	28.
%RSD	.01347	.00686	.23486	.27061

#1	4751.8	7819.7	89133.	10538.
#2	4752.7	7819.0	88837.	10497.

Sample Name: 480-45457-C-1-A Acquired: 9/12/2013 6:17:25 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00064	.04985	.00232	.29609	.12926	.00002	41.601	.00039	.00023
Stddev	.00073	.00312	.00026	.00038	.00058	.00004	.023	.00011	.00007
%RSD	115.23	6.2641	11.036	.12758	.44771	163.49	.05457	27.195	31.002

#1	.00115	.04765	.00214	.29636	.12967	.00005	41.585	.00032	.00028
#2	.00012	.05206	.00250	.29583	.12885	-.00000	41.617	.00047	.00018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00096	-.00010	1.7593	9.1106	11.057	.02492	33.881	.01553	.01474
Stddev	.00027	.00009	.0004	.0453	.007	.00048	.028	.00003	.00019
%RSD	28.430	85.871	.02488	.49732	.06597	1.9096	.08141	.18325	1.3052

#1	.00115	-.00004	1.7590	9.0786	11.062	.02526	33.901	.01555	.01460
#2	.00076	-.00016	1.7596	9.1427	11.052	.02459	33.861	.01551	.01487

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00433	39.144	-.00002	-.00048	F 45.63	-.00166	-.00120	5.1298	.00003
Stddev	.00012	.002	.00014	.00120	.03	.00065	.00249	.0072	.00009
%RSD	2.6950	.00466	847.42	250.07	.0743	39.125	208.36	.13943	289.62

#1	.00441	39.143	-.00012	.00037	45.65	-.00120	.00057	5.1248	.00010
#2	.00425	39.145	.00009	-.00133	45.60	-.00212	-.00296	5.1349	-.00003

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0356	.00079	-.00288	-.00001	1.2826
Stddev	.0004	.00003	.00016	.00004	.0030
%RSD	.03523	3.5545	5.6907	289.35	.23682

#1	1.0359	.00077	-.00300	-.00004	1.2847
#2	1.0354	.00081	-.00277	.00001	1.2804

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4554.0	7540.0	86728.	10558.
Stddev	2.0	.5	109.	17.
%RSD	.04283	.00622	.12518	.16072

#1	4552.6	7539.6	86652.	10570.
#2	4555.4	7540.3	86805.	10546.

Sample Name: 480-45457-C-1-A SD@5 Acquired: 9/12/2013 6:20:17 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00014	.02835	-0.00118	.05844	.02656	.00001	8.5407	.00009	.00015
Stddev	.00057	.00419	.00100	.00021	.00002	.00007	.0016	.00003	.00010
%RSD	399.76	14.784	84.783	.35417	.05922	928.96	.01883	31.297	64.721

#1	-0.00055	.02539	-0.00047	.05830	.02657	-0.00004	8.5395	.00007	.00022
#2	.00026	.03131	-0.00188	.05859	.02655	.00006	8.5418	.00012	.00008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00014	.00286	.36137	1.8525	1.8606	.00410	6.8088	.00326	.00271
Stddev	.00021	.00018	.00371	.0509	.0134	.00041	.0013	.00002	.00004
%RSD	148.73	6.2898	1.0270	2.7472	.72209	10.006	.01919	.54917	1.3576

#1	.00029	.00274	.36399	1.8166	1.8701	.00381	6.8098	.00325	.00268
#2	-0.00001	.00299	.35874	1.8885	1.8511	.00439	6.8079	.00328	.00273

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00119	7.8036	-0.00017	.00057	8.969	-0.00021	-0.00436	1.0334	-0.00005
Stddev	.00015	.0032	.00040	.00020	.020	.00134	.00121	.0029	.00028
%RSD	12.852	.04071	238.87	35.461	.2240	631.30	27.797	.27533	540.03

#1	.00108	7.8013	.00012	.00043	8.955	.00074	-0.00350	1.0314	-0.00025
#2	.00130	7.8058	-0.00045	.00072	8.983	-0.00116	-0.00521	1.0354	.00015

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20973	.00017	-0.00090	.00025	.26673
Stddev	.00002	.00008	.00144	.00033	.00111
%RSD	.00858	47.603	159.57	131.89	.41631

#1	.20974	.00023	-0.00192	.00002	.26595
#2	.20972	.00012	.00012	.00048	.26752

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4841.7	7804.5	89641.	10513.
Stddev	1.5	6.9	.	27.
%RSD	.03016	.08853	.00016	.25662

#1	4840.7	7809.4	89641.	10494.
#2	4842.8	7799.6	89641.	10532.

Sample Name: 480-45457-C-1-A PDS Acquired: 9/12/2013 6:23:05 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05426	10.546	.22021	.49561	.33685	.22195	51.579	.20482	.21031
Stddev	.00061	.021	.00015	.00112	.00020	.00049	.195	.00070	.00019
%RSD	1.1256	.19949	.06945	.22617	.05838	.22135	.37739	.33965	.08802

#1	.05383	10.531	.22032	.49640	.33699	.22160	51.442	.20531	.21044
#2	.05469	10.561	.22010	.49481	.33672	.22229	51.717	.20433	.21017

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20703	.21069	11.922	19.447	22.978	.23864	43.180	.22300	.21325
Stddev	.00011	.00016	.056	.144	.138	.00132	.013	.00037	.00142
%RSD	.05347	.07632	.47362	.74229	.60137	.55245	.02923	.16387	.66798

#1	.20711	.21080	11.882	19.345	23.076	.23771	43.189	.22326	.21425
#2	.20695	.21057	11.962	19.550	22.881	.23958	43.171	.22275	.21224

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_2243)	(Y_3774)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20654	48.422	50.523	.21031	.20870	F 43.92	.21256	.21433	15.622
Stddev	.00131	.022	.206	.00062	.00004	.11	.00161	.00006	.062
%RSD	.63187	.04551	.40745	.29289	.02109	.2575	.75676	.02997	.39932

#1	.20746	48.406	50.377	.20987	.20873	44.00	.21369	.21428	15.578
#2	.20561	48.437	50.668	.21074	.20867	43.84	.21142	.21437	15.667

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						10.00			
Low Limit						-.0100			

Elem	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19175	1.2219	.19364	.21202	.20523	1.4381
Stddev	.00008	.0032	.00054	.00004	.00020	.0006
%RSD	.04187	.26079	.28071	.01913	.09800	.04494

#1	.19181	1.2196	.19402	.21200	.20509	1.4385
#2	.19169	1.2241	.19325	.21205	.20537	1.4376

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4463.6	7581.7	86042.	10417.
Stddev	5.4	22.6	165.	47.
%RSD	.12117	.29746	.19172	.44942

#1	4459.7	7565.7	85926.	10450.
#2	4467.4	7597.6	86159.	10384.

Sample Name: 480-45457-C-1-B MS Acquired: 9/12/2013 6:25:50 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05334	10.312	.21188	.49874	.33208	.21540	52.762	.20277	.20724
Stddev	.00031	.055	.00021	.00085	.00020	.00023	.059	.00057	.00089
%RSD	.58172	.53636	.09785	.16976	.06125	.10564	.11172	.28262	.42893

#1	.05356	10.351	.21173	.49814	.33222	.21556	52.803	.20237	.20787
#2	.05312	10.273	.21202	.49934	.33193	.21524	52.720	.20318	.20661

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20642	.20578	11.828	19.541	22.631	.23126	44.620	.22157	.20915
Stddev	.00005	.00024	.046	.008	.479	.00152	.043	.00042	.00030
%RSD	.02281	.11427	.38907	.03845	2.1151	.65522	.09618	.18872	.14347

#1	.20638	.20561	11.861	19.547	22.970	.23233	44.590	.22127	.20894
#2	.20645	.20594	11.796	19.536	22.293	.23019	44.651	.22186	.20936

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20679	51.644	.20640	.20399	F 45.71	.21037	.20836	15.239	.19511
Stddev	.00075	.471	.00119	.00191	.09	.00135	.00217	.007	.00044
%RSD	.36198	.91140	.57743	.93481	.1942	.64181	1.0395	.04887	.22342

#1	.20627	51.977	.20724	.20264	45.65	.21132	.20682	15.244	.19541
#2	.20732	51.311	.20555	.20534	45.78	.20941	.20989	15.233	.19480

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.2593	.18985	.20548	.19849	1.4910
Stddev	.0004	.00065	.00387	.00026	.0006
%RSD	.03019	.34001	1.8820	.13283	.04344

#1	1.2590	.19031	.20822	.19868	1.4906
#2	1.2596	.18939	.20275	.19830	1.4915

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4456.4	7582.8	86470.	10423.
Stddev	.1	17.3	135.	49.
%RSD	.00318	.22823	.15583	.47170

#1	4456.3	7595.1	86375.	10388.
#2	4456.5	7570.6	86566.	10457.

Sample Name: 480-45457-C-1-C MSD Acquired: 9/12/2013 6:28:36 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05273	10.144	.21174	.49049	.32796	.21290	51.340	.20127	.20522
Stddev	.00018	.015	.00063	.00041	.00019	.00041	.035	.00020	.00014
%RSD	.34088	.14864	.29941	.08315	.05676	.19322	.06768	.09766	.06986

#1	.05285	10.155	.21129	.49020	.32810	.21261	51.315	.20141	.20532
#2	.05260	10.134	.21219	.49078	.32783	.21319	51.365	.20113	.20512

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20491	.20444	11.681	19.177	21.925	.22806	43.702	.21925	.20845
Stddev	.00061	.00024	.006	.012	.292	.00062	.040	.00012	.00019
%RSD	.29742	.11715	.05339	.06242	1.3301	.27020	.09178	.05511	.09218

#1	.20534	.20461	11.685	19.185	22.131	.22762	43.730	.21916	.20859
#2	.20448	.20427	11.677	19.169	21.719	.22850	43.673	.21933	.20831

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Line	202.030 {467}	589.592 { 57}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2
IS Ref	(Y_2243)	(Y_3774)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.20541	48.470	50.695	.20528	.20161	F 44.76	.21046	.20462	14.921
Stddev	.00031	.077	.193	.00006	.00041	.10	.00023	.00381	.010
%RSD	.15044	.15984	.38102	.03138	.20343	.2189	.11143	1.8633	.06760

#1	.20563	48.416	50.558	.20532	.20132	44.70	.21029	.20732	14.914
#2	.20519	48.525	50.831	.20523	.20190	44.83	.21062	.20193	14.928

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit						10.00			
Low Limit						-.0100			

Elem	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	189.989 {477}	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(In2306)	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.19251	1.2273	.18832	.20681	.19633	1.4616
Stddev	.00033	.0013	.00073	.00040	.00040	.0036
%RSD	.17047	.10197	.38922	.19187	.20467	.24354

#1	.19274	1.2264	.18884	.20653	.19605	1.4641
#2	.19227	1.2282	.18780	.20709	.19661	1.4591

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4451.4	7565.3	86118.	10427.
Stddev	.1	.7	101.	24.
%RSD	.00172	.00903	.11718	.23423

#1	4451.5	7564.8	86190.	10445.
#2	4451.4	7565.7	86047.	10410.

Sample Name: 480-45457-C-2-A Acquired: 9/12/2013 6:31:21 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00002	.05573	-.00062	.20706	.05993	.00002	217.63	.00021	.00011
Stddev	.00026	.01288	.00315	.00076	.00015	.00001	1.29	.00010	.00004
%RSD	1162.7	23.109	505.88	.36653	.25420	47.868	.59262	48.609	36.675

#1	.00020	.04662	-.00285	.20652	.06004	.00002	218.54	.00028	.00014
#2	-.00016	.06484	.00160	.20759	.05983	.00003	216.72	.00014	.00008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00099	.00096	.39079	7.1104	9.0397	.00831	20.118	.19902	.18906
Stddev	.00025	.00041	.00199	.0089	.1333	.00101	.067	.00040	.00156
%RSD	25.188	43.192	.50942	.12483	1.4742	12.208	.33211	.19926	.82429

#1	.00117	.00066	.39220	7.1167	9.1339	.00760	20.071	.19874	.18796
#2	.00082	.00125	.38938	7.1041	8.9455	.00903	20.166	.19930	.19016

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00180	24.963	.00241	-.00096	F 108.6	-.00048	-.00080	6.3529	-.00010
Stddev	.00010	.042	.00009	.00052	.1	.00010	.00138	.0037	.00018
%RSD	5.8196	.16654	3.9383	54.647	.0663	20.410	171.55	.05809	185.20

#1	.00172	24.933	.00234	-.00132	108.6	-.00055	-.00178	6.3555	.00003
#2	.00187	24.992	.00248	-.00059	108.7	-.00041	.00017	6.3503	-.00022

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.54775	.00138	-.00225	.00039	.00252
Stddev	.00004	.00002	.00102	.00046	.00001
%RSD	.00809	1.6433	45.517	118.02	.50014

#1	.54778	.00140	-.00152	.00072	.00252
#2	.54771	.00137	-.00297	.00007	.00251

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4365.1	7338.5	83664.	10195.
Stddev	6.4	7.2	92.	44.
%RSD	.14718	.09792	.10958	.43247

#1	4369.6	7343.6	83599.	10164.
#2	4360.5	7333.4	83729.	10226.

Sample Name: 480-45457-C-3-A Acquired: 9/12/2013 6:34:19 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00081	.50951	.02850	.23046	.05727	-0.0001	148.67	.00063	.00563
Stddev	.00056	.01819	.00014	.00010	.00020	.00002	.67	.00000	.00013
%RSD	68.712	3.5708	.47536	.04290	.34152	369.45	.44785	.43159	2.2371

#1	.00121	.49664	.02859	.23053	.05741	.00001	148.20	.00064	.00554
#2	.00042	.52237	.02840	.23039	.05714	-0.0002	149.14	.00063	.00572

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00239	.01442	3.7629	7.1325	8.8053	.02021	28.559	1.1919	1.1272
Stddev	.00022	.00006	.0299	.0319	.0058	.00029	.067	.0032	.0033
%RSD	9.4051	.38476	.79416	.44794	.06561	1.4274	.23539	.27123	.29572

#1	.00223	.01438	3.7418	7.1099	8.8012	.02042	28.512	1.1896	1.1249
#2	.00254	.01446	3.7840	7.1551	8.8094	.02001	28.607	1.1942	1.1296

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01661	20.751	.01232	-0.00413	F 86.39	.04851	.00207	13.790	-0.00013
Stddev	.00001	.110	.00005	.00008	.07	.00073	.00150	.063	.00025
%RSD	.06927	.52912	.38543	1.9109	.0800	1.5119	72.622	.45571	188.56

#1	.01660	20.673	.01236	-0.00407	86.43	.04799	.00313	13.746	.00004
#2	.01662	20.829	.01229	-0.00419	86.34	.04903	.00101	13.835	-0.00031

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.52528	.00889	.00126	.00117	.17971
Stddev	.00238	.00008	.00170	.00015	.00196
%RSD	.45350	.84665	134.97	12.412	1.0916

#1	.52360	.00883	.00006	.00128	.17832
#2	.52697	.00894	.00246	.00107	.18109

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4413.7	7396.3	85006.	10387.
Stddev	3.5	7.1	99.	11.
%RSD	.07914	.09609	.11703	.10318

#1	4416.2	7391.3	85076.	10395.
#2	4411.3	7401.3	84936.	10379.

Sample Name: 480-45457-C-4-A Acquired: 9/12/2013 6:37:11 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00057	.35546	.00819	.13319	.04002	-.00006	127.28	.01078	.00571
Stddev	.00026	.00644	.00187	.00047	.00012	.00001	.20	.00001	.00009
%RSD	45.666	1.8114	22.780	.34994	.30619	11.746	.16027	.08604	1.6511

#1	.00039	.35091	.00951	.13352	.03994	-.00006	127.14	.01079	.00565
#2	.00076	.36001	.00687	.13286	.04011	-.00007	127.43	.01077	.00578

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00123	.07204	.53819	6.6769	8.8529	.03403	14.049	.10964	.10392
Stddev	.00009	.00010	.00315	.0043	.0238	.00103	.009	.00028	.00088
%RSD	7.1863	.13899	.58534	.06455	.26841	3.0128	.06305	.25467	.84797

#1	.00116	.07197	.53596	6.6799	8.8361	.03330	14.055	.10945	.10330
#2	.00129	.07211	.54042	6.6738	8.8697	.03475	14.043	.10984	.10455

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00267	63.604	.01605	.01678	F 94.18	.00332	.02739	12.462	.00012
Stddev	.00007	.238	.00070	.00040	.22	.00020	.00049	.048	.00001
%RSD	2.5377	.37373	4.3441	2.4070	.2349	5.9542	1.7723	.38221	5.5392

#1	.00272	63.772	.01556	.01706	94.33	.00318	.02773	12.429	.00012
#2	.00262	63.436	.01654	.01649	94.02	.00346	.02704	12.496	.00012

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.31970	.00746	.00080	.00145	2.2911
Stddev	.00015	.00092	.00018	.00013	.0022
%RSD	.04706	12.376	22.731	8.9444	.09543

#1	.31980	.00681	.00093	.00136	2.2895
#2	.31959	.00811	.00067	.00154	2.2926

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4430.5	7454.4	84746.	10358.
Stddev	3.4	13.1	234.	30.
%RSD	.07781	.17602	.27614	.29369

#1	4428.1	7445.2	84911.	10380.
#2	4433.0	7463.7	84581.	10337.

Sample Name: 480-45457-C-5-A Acquired: 9/12/2013 6:40:03 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.00071	.12571	.05243	.16305	.02505	-0.00002	344.01	.00044	.02145
Stddev	.00048	.00410	.00033	.00051	.00002	.00004	.91	.00008	.00017
%RSD	67.279	3.2589	.63460	.31521	.07847	219.43	.26420	18.174	.79109

#1	-0.00037	.12861	.05219	.16342	.02504	.00001	344.65	.00050	.02133
#2	-0.00105	.12281	.05266	.16269	.02506	-0.00005	343.37	.00038	.02157

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00088	.00352	113.19	6.1967	8.9413	.02226	19.576	1.8370	1.7753
Stddev	.00039	.00003	.15	.0719	.0702	.00107	.063	.0046	.0125
%RSD	43.591	.95751	.12982	1.1605	.78519	4.8017	.32146	.24939	.70545

#1	.00061	.00350	113.29	6.1458	8.9910	.02150	19.531	1.8338	1.7664
#2	.00116	.00354	113.08	6.2475	8.8917	.02301	19.620	1.8402	1.7841

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00087	45.475	.02371	F -0.00548	F 370.2	-0.00068	.00126	16.360	.00079
Stddev	.00006	.088	.00016	.00004	.7	.00032	.00338	.025	.00006
%RSD	7.2279	.19409	.67541	.81480	.1943	46.285	267.36	.15336	6.9906

#1	.00083	45.413	.02360	-0.00545	369.7	-0.00046	.00365	16.377	.00075
#2	.00092	45.537	.02382	-0.00552	370.8	-0.00091	-0.00112	16.342	.00083

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				120.00	10.00				
Low Limit				-0.00500	-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.51762	.00276	-0.00403	.00087	1.2542
Stddev	.00218	.00045	.00004	.00030	.0043
%RSD	.42051	16.414	1.0803	33.931	.33929

#1	.51608	.00244	-0.00406	.00108	1.2512
#2	.51916	.00308	-0.00400	.00066	1.2572

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4192.5	7176.0	82267.	10248.
Stddev	2.2	3.0	198.	53.
%RSD	.05162	.04148	.24083	.51597

#1	4194.1	7178.1	82408.	10211.
#2	4191.0	7173.9	82127.	10285.

Sample Name: CCV Acquired: 9/12/2013 6:43:01 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48971	24.198	.49641	.47864	.48685	.50591	24.387	.47806	.49090	.49673	.48380	23.851
Stddev	.00045	.016	.00116	.00021	.00102	.00060	.059	.00075	.00061	.00078	.00128	.039
%RSD	.09168	.06729	.23351	.04289	.21029	.11944	.24118	.15615	.12407	.15757	.26455	.16262

#1	.49003	24.209	.49723	.47850	.48757	.50634	24.346	.47859	.49133	.49729	.48471	23.878
#2	.48939	24.186	.49559	.47879	.48612	.50549	24.429	.47753	.49047	.49618	.48290	23.823

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	24.497	25.359	.48574	24.037	.50635	.47238	.47847	23.660	.50012	.49751	25.32	.51032
Stddev	.095	.126	.00104	.012	.00067	.00223	.00109	.015	.00030	.00161	.01	.00016
%RSD	.38873	.49623	.21442	.04793	.13178	.47139	.22877	.06212	.05915	.32451	.0402	.03232

#1	24.565	25.448	.48648	24.045	.50588	.47396	.47924	23.670	.50033	.49865	25.31	.51044
#2	24.430	25.270	.48500	24.029	.50682	.47081	.47769	23.649	.49991	.49636	25.32	.51020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48663	23.749	.48343	.48641	.47173	.49949	.47121	.48357
Stddev	.00018	.037	.00064	.00034	.00156	.00149	.00002	.00263
%RSD	.03713	.15410	.13151	.06951	.33108	.29825	.00325	.54345

#1	.48650	23.723	.48298	.48665	.47284	.49844	.47120	.48172
#2	.48676	23.775	.48388	.48617	.47063	.50055	.47122	.48543

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4569.1	7734.5	87673.	10399.
Stddev	4.1	1.6	117.	33.
%RSD	.08916	.02062	.13332	.31952
#1	4572.0	7735.6	87590.	10422.
#2	4566.2	7733.3	87756.	10375.

Sample Name: CCB Acquired: 9/12/2013 6:45:48 Type: QC
 Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00050	.02804	.00007	-.00000	.00007	-.00001	.02734	.00005	.00003	.00025	-.00110	.01297
Stddev	.00038	.00929	.00021	.00010	.00000	.00004	.00190	.00002	.00012	.00004	.00045	.00054
%RSD	75.737	33.136	279.62	2673.7	4.8379	290.94	6.9499	41.258	340.62	17.742	41.044	4.1264

#1	.00023	.03460	.00022	-.00008	.00007	-.00004	.02868	.00004	.00012	.00022	-.00078	.01334
#2	.00076	.02147	-.00007	.00007	.00007	.00002	.02599	.00007	-.00005	.00028	-.00142	.01259

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.08480	.00288	-.00052	.00518	.00020	.00029	.00031	-.01487	-.00024	-.00075	F .0326	-.00066
Stddev	.03880	.00050	.00084	.00007	.00003	.00017	.00017	.00567	.00008	.00098	.0023	.00164
%RSD	45.752	17.204	162.70	1.4100	15.183	59.068	55.474	38.105	34.636	131.10	7.020	248.76

#1	.11224	.00323	-.00111	.00513	.00022	.00017	.00043	-.01086	-.00030	-.00145	.0342	.00050
#2	.05737	.00253	.00008	.00523	.00018	.00041	.00019	-.01888	-.00018	-.00005	.0310	-.00182

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00256	.01412	-.00036	.00017	.00046	-.00212	.00013	-.00030
Stddev	.00067	.00026	.00003	.00010	.00009	.00012	.00002	.00058
%RSD	26.020	1.8540	9.5389	57.910	19.016	5.5460	16.710	189.87

#1	-.00209	.01393	-.00038	.00024	.00053	-.00220	.00011	-.00071
#2	-.00304	.01430	-.00033	.00010	.00040	-.00204	.00015	.00010

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4960.2	7882.9	89590.	10311.
Stddev	17.1	23.0	172.	11.
%RSD	.34451	.29138	.19242	.10563
#1	4948.1	7866.6	89712.	10319.
#2	4972.3	7899.1	89468.	10303.

Sample Name: 480-45457-C-6-A Acquired: 9/12/2013 6:48:41 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00086	.07281	.11662	.13894	.02094	-.00005	182.19	.00004	.00644
Stddev	.00017	.00685	.00034	.00075	.00007	.00006	1.05	.00011	.00005
%RSD	19.721	9.4082	.28830	.53669	.33992	119.85	.57624	255.90	.81996

#1	.00098	.06797	.11685	.13947	.02089	-.00009	182.94	-.00003	.00640
#2	.00074	.07766	.11638	.13841	.02099	-.00001	181.45	.00012	.00648

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00080	.00522	80.355	13.453	16.264	.02686	15.920	.31619	.30116
Stddev	.00001	.00037	.241	.013	.072	.00004	.009	.00061	.00079
%RSD	1.7162	7.0591	.29973	.09524	.44227	.16245	.05469	.19386	.26275

#1	.00081	.00496	80.185	13.463	16.315	.02683	15.926	.31662	.30060
#2	.00079	.00548	80.526	13.444	16.213	.02689	15.914	.31575	.30172

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00020	16.719	.00649	-.00396	F 214.1	-.00393	-.00248	31.711	.00028
Stddev	.00011	.040	.00026	.00045	.0	.00107	.00257	.089	.00029
%RSD	55.592	.24165	4.0504	11.266	.0050	27.212	103.60	.28154	103.64

#1	-.00012	16.748	.00668	-.00364	214.1	-.00318	-.00429	31.774	.00048
#2	-.00028	16.691	.00630	-.00427	214.1	-.00469	-.00066	31.648	.00007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.55514	.00123	-.00258	.00160	.05628
Stddev	.00190	.00023	.00110	.00006	.00047
%RSD	.34143	18.923	42.698	3.7891	.83299

#1	.55648	.00140	-.00180	.00164	.05595
#2	.55379	.00107	-.00336	.00156	.05661

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4397.7	7375.4	84616.	10351.
Stddev	5.3	2.5	15.	1.
%RSD	.12112	.03404	.01813	.00592

#1	4401.5	7373.7	84627.	10351.
#2	4393.9	7377.2	84605.	10350.

Sample Name: 480-45457-C-7-A Acquired: 9/12/2013 6:51:38 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00032	.03778	-.00014	.12946	.10879	-.00000	36.081	.00028	.00024
Stddev	.00055	.00143	.00032	.00018	.00002	.00002	.094	.00006	.00005
%RSD	170.70	3.7906	231.36	.14105	.02177	472.07	.26170	21.924	21.892

#1	-.00007	.03677	.00009	.12933	.10877	.00001	36.147	.00033	.00027
#2	.00071	.03879	-.00037	.12958	.10880	-.00002	36.014	.00024	.00020

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00041	-.00013	3.1219	5.0448	7.3818	.02571	50.891	.05616	.05394
Stddev	.00028	.00014	.0025	.0042	.0166	.00044	.052	.00002	.00008
%RSD	69.386	104.59	.07933	.08397	.22468	1.7281	.10225	.04119	.14300

#1	.00021	-.00003	3.1236	5.0478	7.3700	.02540	50.928	.05618	.05388
#2	.00061	-.00023	3.1201	5.0418	7.3935	.02603	50.854	.05615	.05399

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00129	170.00	.00059	-.00296	3.463	-.00278	.00030	6.1161	-.00027
Stddev	.00022	.35	.00096	.00017	.009	.00041	.00350	.0544	.00082
%RSD	17.127	.20327	161.56	5.8476	.2634	14.760	1150.0	.88982	297.68

#1	.00145	169.76	.00127	-.00308	3.469	-.00249	.00278	6.1546	.00030
#2	.00113	170.25	-.00008	-.00283	3.456	-.00307	-.00217	6.0776	-.00085

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.69643	.00026	-.00061	.00001	.00445
Stddev	.00043	.00015	.00139	.00022	.00024
%RSD	.06202	57.592	226.78	2637.9	5.3529

#1	.69613	.00037	-.00159	-.00014	.00428
#2	.69674	.00015	.00037	.00016	.00462

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4340.9	7428.4	84014.	10403.
Stddev	1.9	8.7	84.	16.
%RSD	.04417	.11695	.10040	.14937

#1	4342.3	7422.3	84074.	10392.
#2	4339.6	7434.5	83954.	10414.

Sample Name: 480-45457-C-8-A Acquired: 9/12/2013 6:54:37 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00079	.04078	.00166	.28873	.12818	-.00006	41.127	.00035	.00023
Stddev	.00016	.00912	.00264	.00136	.00014	.00007	.135	.00001	.00002
%RSD	20.542	22.373	159.31	.47259	.10727	117.55	.32816	3.4249	7.8283

#1	.00068	.04723	.00353	.28969	.12828	-.00001	41.222	.00036	.00022
#2	.00090	.03433	-.00021	.28776	.12809	-.00011	41.031	.00034	.00024

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00082	-.00018	1.7432	9.0436	10.810	.02226	33.417	.01448	.01369
Stddev	.00004	.00012	.0048	.0155	.030	.00087	.022	.00016	.00020
%RSD	5.1638	66.807	.27352	.17129	.27634	3.9159	.06708	1.0786	1.4920

#1	.00085	-.00009	1.7466	9.0546	10.831	.02165	33.433	.01437	.01383
#2	.00079	-.00026	1.7398	9.0327	10.789	.02288	33.401	.01460	.01354

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00414	38.606	.00009	-.00175	F 44.79	-.00121	-.00063	5.0810	.00005
Stddev	.00033	.146	.00017	.00037	.01	.00070	.00010	.0051	.00057
%RSD	7.8869	.37745	181.39	21.092	.0234	58.369	15.178	.10016	1193.8

#1	.00437	38.709	-.00003	-.00201	44.78	-.00071	-.00070	5.0846	-.00035
#2	.00391	38.503	.00021	-.00149	44.80	-.00170	-.00056	5.0774	.00045

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0244	.00092	-.00213	-.00002	1.2869
Stddev	.0045	.00074	.00012	.00000	.0003
%RSD	.43418	80.629	5.6925	22.185	.02527

#1	1.0275	.00144	-.00222	-.00002	1.2867
#2	1.0213	.00039	-.00204	-.00002	1.2872

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4552.4	7538.8	86629.	10472.
Stddev	2.2	1.5	33.	19.
%RSD	.04824	.02042	.03782	.17779

#1	4550.8	7537.7	86606.	10458.
#2	4554.0	7539.9	86652.	10485.

Sample Name: 480-45457-C-9-A Acquired: 9/12/2013 6:57:29 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00046	.09655	.00022	.10534	.02930	-.00005	170.92	.00045	.00095
Stddev	.00053	.02164	.00197	.00015	.00012	.00003	.46	.00010	.00003
%RSD	116.70	22.415	894.83	.13834	.40446	68.465	.26942	23.009	3.2584

#1	.00083	.08125	.00161	.10544	.02922	-.00007	170.60	.00038	.00098
#2	.00008	.11185	-.00117	.10524	.02939	-.00002	171.25	.00052	.00093

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00174	.00158	.14694	1.6768	2.0847	.01974	32.453	.08857	.08416
Stddev	.00006	.00001	.00152	.0070	.0179	.00031	.110	.00001	.00128
%RSD	3.7233	.33949	1.0370	.42063	.85824	1.5803	.33940	.00822	1.5224

#1	.00179	.00158	.14802	1.6818	2.0720	.01952	32.530	.08856	.08507
#2	.00169	.00159	.14587	1.6719	2.0973	.01996	32.375	.08857	.08326

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00343	17.263	.00531	-.00295	F 62.02	-.00308	-.00102	8.8438	-.00090
Stddev	.00008	.071	.00032	.00156	.08	.00042	.00286	.0377	.00009
%RSD	2.3060	.41111	6.0382	53.022	.1366	13.515	280.59	.42626	9.9347

#1	.00338	17.213	.00508	-.00405	62.08	-.00279	.00100	8.8172	-.00084
#2	.00349	17.313	.00553	-.00184	61.96	-.00338	-.00305	8.8705	-.00096

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.96037	.00221	-.00347	-.00005	.00611
Stddev	.00126	.00008	.00028	.00032	.00058
%RSD	.13162	3.5763	8.2233	601.10	9.4351

#1	.95948	.00227	-.00326	-.00028	.00651
#2	.96126	.00216	-.00367	.00017	.00570

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4399.4	7363.2	84250.	10345.
Stddev	.7	3.2	284.	41.
%RSD	.01588	.04333	.33767	.39988

#1	4398.9	7361.0	84049.	10375.
#2	4399.9	7365.5	84451.	10316.

Sample Name: 480-45457-C-10-A Acquired: 9/12/2013 7:00:22 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00055	.04153	.00813	.13958	.14982	-.00005	47.968	.00016	.00023
Stddev	.00030	.01381	.00123	.00024	.00020	.00004	.066	.00008	.00009
%RSD	54.242	33.265	15.140	.17266	.13125	87.933	.13756	48.177	37.095

#1	.00077	.03176	.00900	.13975	.14968	-.00002	48.014	.00021	.00017
#2	.00034	.05130	.00726	.13941	.14996	-.00008	47.921	.00011	.00029

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00120	-.00000	.06383	4.0948	7.0717	.01503	7.6010	.07456	.07294
Stddev	.00023	.00004	.00055	.0394	.0822	.00013	.0245	.00048	.00059
%RSD	19.332	1714.9	.86091	.96329	1.1621	.84690	.32221	.64475	.81057

#1	.00104	.00002	.06344	4.1227	7.1298	.01494	7.6183	.07490	.07252
#2	.00137	-.00003	.06422	4.0669	7.0136	.01512	7.5837	.07422	.07336

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01734	406.48	.00048	-.00304	F 34.61	-.00192	-.00215	8.2384	-.00031
Stddev	.00024	.24	.00013	.00024	.06	.00129	.00469	.0207	.00010
%RSD	1.3583	.06014	27.820	7.7579	.1611	67.247	218.45	.25152	31.684

#1	.01717	406.31	.00039	-.00320	34.57	-.00100	.00117	8.2238	-.00024
#2	.01751	406.65	.00058	-.00287	34.64	-.00283	-.00547	8.2531	-.00038

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.21562	.00069	-.00292	.00070	.00010
Stddev	.00061	.00010	.00008	.00022	.00006
%RSD	.28279	14.870	2.8285	31.364	57.673

#1	.21519	.00077	-.00298	.00054	.00014
#2	.21606	.00062	-.00286	.00085	.00006

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4175.3	7327.1	81344.	10285.
Stddev	8.6	17.7	247.	59.
%RSD	.20694	.24172	.30315	.57163

#1	4181.5	7339.7	81169.	10244.
#2	4169.2	7314.6	81518.	10327.

Sample Name: 480-45457-C-11-A Acquired: 9/12/2013 7:03:21 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0033	.06831	.00926	.14272	.03638	-0.0006	258.51	.00041	.00438
Stddev	.00058	.01401	.00017	.00022	.00005	.00002	.55	.00009	.00039
%RSD	172.51	20.508	1.8814	.15383	.13520	38.083	.21147	20.990	8.8726

#1	-0.00074	.07822	.00914	.14287	.03641	-0.00008	258.89	.00047	.00465
#2	.00007	.05840	.00939	.14256	.03634	-0.00005	258.12	.00035	.00410

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00277	-0.0006	2.3422	1.5775	2.3540	.05187	109.31	1.6150	1.5654
Stddev	.00024	.00017	.00058	.0063	.0005	.00073	.08	.0027	.0050
%RSD	8.5952	281.43	.24818	.40088	.02031	1.4053	.07168	.16928	.31622

#1	.00261	-0.00018	2.3381	1.5819	2.3537	.05239	109.36	1.6169	1.5689
#2	.00294	.00006	2.3464	1.5730	2.3543	.05136	109.25	1.6131	1.5619

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00311	86.839	.00608	F -0.00526	F 185.1	-0.00159	-0.00304	9.7958	-0.00046
Stddev	.00013	.262	.00074	.00113	.1	.00094	.00158	.0317	.00058
%RSD	4.3378	.30150	12.211	21.549	.0785	59.208	51.949	.32365	127.64

#1	.00320	87.024	.00660	-0.00446	185.0	-0.00225	-0.00415	9.7734	-0.00004
#2	.00301	86.654	.00555	-0.00606	185.2	-0.00092	-0.00192	9.8182	-0.00087

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				120.00	10.00				
Low Limit				-0.00500	-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.2148	.00200	-0.00006	.00071	.00157
Stddev	.0013	.00020	.00074	.00012	.00013
%RSD	.10992	9.7880	1140.1	16.344	8.1171

#1	1.2138	.00214	.00046	.00080	.00166
#2	1.2157	.00186	-0.00059	.00063	.00148

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4131.5	7124.0	81873.	10281.
Stddev	9.1	3.9	24.	10.
%RSD	.22069	.05480	.02949	.09265

#1	4125.1	7121.2	81856.	10288.
#2	4138.0	7126.8	81890.	10274.

Sample Name: 480-45457-C-12-A Acquired: 9/12/2013 7:06:13 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00067	.14493	.00161	.05194	.02984	-0.00004	54.459	.00361	.00071
Stddev	.00002	.00968	.00108	.00011	.00009	.00005	.005	.00013	.00000
%RSD	3.0849	6.6784	67.001	.21215	.31306	149.31	.00879	3.5673	.12738

#1	.00068	.15177	.00237	.05202	.02977	.00000	54.455	.00370	.00071
#2	.00066	.13808	.00085	.05186	.02990	-0.00008	54.462	.00352	.00071

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.07862	.00684	1.7849	3.2995	4.4591	.01239	13.915	.18872	.17809
Stddev	.00091	.00016	.0006	.0138	.0282	.00031	.041	.00088	.00020
%RSD	1.1637	2.3658	.03397	.41956	.63142	2.4924	.29395	.46499	.11275

#1	.07927	.00673	1.7845	3.2897	4.4392	.01261	13.944	.18934	.17823
#2	.07798	.00696	1.7854	3.3093	4.4790	.01217	13.886	.18810	.17795

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00816	97.305	.02261	.00186	F 12.71	-0.00057	.00129	5.3942	-0.00032
Stddev	.00033	.089	.00002	.00060	.01	.00199	.00176	.0089	.00018
%RSD	4.0205	.09185	.10328	32.011	.0557	349.48	136.13	.16482	55.978

#1	.00839	97.242	.02259	.00144	12.72	-0.00198	.00254	5.4005	-0.00020
#2	.00793	97.368	.02263	.00228	12.71	.00084	.00005	5.3879	-0.00045

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-0.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.23741	.00287	-0.00244	.00125	.02930
Stddev	.00059	.00009	.00202	.00006	.00029
%RSD	.24949	3.1151	82.824	4.9146	.97979

#1	.23782	.00281	-0.00101	.00130	.02910
#2	.23699	.00294	-0.00387	.00121	.02951

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4473.6	7527.7	85489.	10441.
Stddev	.1	2.4	313.	10.
%RSD	.00119	.03241	.36626	.09978

#1	4473.6	7529.4	85267.	10448.
#2	4473.5	7526.0	85710.	10433.

Sample Name: 480-45457-C-13-A Acquired: 9/12/2013 7:09:00 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00118	.04467	.56610	.14890	.01899	-.00009	547.99	-.00019	.00219
Stddev	.00026	.01226	.00199	.00029	.00003	.00001	1.12	.00003	.00001
%RSD	21.744	27.452	.35237	.19637	.16057	15.608	.20413	14.688	.32415

#1	.00100	.05334	.56751	.14870	.01901	-.00010	548.78	-.00017	.00219
#2	.00137	.03600	.56469	.14911	.01897	-.00008	547.20	-.00021	.00218

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00133	.00004	20.643	31.526	44.548	.06061	222.67	1.9396	1.9326
Stddev	.00031	.00027	.036	.042	.704	.00055	.38	.0003	.0044
%RSD	23.056	631.78	.17606	.13234	1.5806	.90184	.17254	.01557	.22811

#1	.00111	.00024	20.669	31.556	45.046	.06100	222.94	1.9394	1.9295
#2	.00154	-.00015	20.618	31.497	44.050	.06023	222.40	1.9398	1.9357

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00321	228.97	.00411	F -.00621	F 792.8	-.00158	-.00042	19.347	-.00044
Stddev	.00008	.14	.00047	.00088	.1	.00065	.00074	.076	.00050
%RSD	2.5924	.06067	11.511	14.114	.0079	41.124	176.97	.39173	113.36

#1	.00327	229.06	.00378	-.00683	792.8	-.00112	.00011	19.401	-.00080
#2	.00315	228.87	.00445	-.00559	792.8	-.00204	-.00095	19.294	-.00009

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				120.00	10.00				
Low Limit				-.00500	-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.4689	.00264	-.00245	-.00015	.00095
Stddev	.0018	.00027	.00375	.00023	.00006
%RSD	.12005	10.390	153.15	151.75	6.7434

#1	1.4701	.00283	.00020	.00001	.00099
#2	1.4676	.00244	-.00510	-.00032	.00090

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3829.3	6813.7	77349.	9873.1
Stddev	4.7	11.2	95.	36.8
%RSD	.12180	.16372	.12219	.37259

#1	3826.0	6805.8	77282.	9847.0
#2	3832.6	6821.6	77416.	9899.1

Sample Name: 480-45457-C-14-A Acquired: 9/12/2013 7:12:08 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00069	.08424	.00347	.21115	.07732	-0.00005	232.98	.00037	.00128
Stddev	.00012	.01356	.00160	.00078	.00002	.00002	1.31	.00004	.00014
%RSD	17.416	16.101	46.047	.36869	.02241	35.814	.56115	11.595	11.047

#1	.00077	.07465	.00460	.21060	.07734	-0.00007	233.90	.00034	.00118
#2	.00060	.09383	.00234	.21170	.07731	-0.00004	232.05	.00040	.00138

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00143	.00308	3.7002	6.5973	8.6879	.03321	57.724	.54530	.52484
Stddev	.00028	.00021	.0203	.0412	.1273	.00027	.075	.00001	.00242
%RSD	19.651	6.8415	.54775	.62512	1.4656	.80292	.12983	.00162	.46055

#1	.00123	.00293	3.7145	6.6264	8.7779	.03339	57.777	.54529	.52655
#2	.00163	.00323	3.6859	6.5681	8.5979	.03302	57.671	.54531	.52313

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00525	25.031	.00582	-0.00346	F 142.0	-0.00060	.00382	13.117	-0.00033
Stddev	.00037	.015	.00053	.00186	.1	.00011	.00193	.015	.00011
%RSD	6.9753	.06022	9.0642	53.803	.0392	17.680	50.595	.11498	34.003

#1	.00551	25.041	.00620	-.00214	141.9	-0.00068	.00246	13.128	-.00041
#2	.00499	25.020	.00545	-.00478	142.0	-0.00053	.00519	13.106	-.00025

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.84912	.00251	-0.00435	.00044	.14565
Stddev	.00079	.00021	.00129	.00018	.00105
%RSD	.09340	8.2316	29.676	41.856	.72071

#1	.84968	.00237	-.00344	.00057	.14640
#2	.84856	.00266	-.00526	.00031	.14491

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4277.3	7251.7	83310.	10352.
Stddev	10.0	13.2	418.	58.
%RSD	.23309	.18263	.50223	.56141

#1	4284.4	7261.1	83014.	10311.
#2	4270.3	7242.3	83606.	10393.

Sample Name: 480-45449-F-2-A Acquired: 9/12/2013 7:15:06 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00119	-.00992	-.00072	.03370	.00510	-.00011	27.967	-.00010	.00012
Stddev	.00001	.00606	.00015	.00414	.00045	.00000	4.456	.00005	.00009
%RSD	.70825	61.147	20.423	12.277	8.8567	.37194	15.934	51.162	73.858

#1	.00120	-.00563	-.00083	.03663	.00542	-.00011	31.118	-.00006	.00006
#2	.00119	-.01420	-.00062	.03078	.00478	-.00011	24.816	-.00013	.00019

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00045	-.00278	.06508	.34693	.25929	.00102	3.9215	.05171	.05703
Stddev	.00006	.00007	.01044	.06073	.02900	.00055	.3434	.00460	.00866
%RSD	13.328	2.6515	16.041	17.505	11.184	54.144	8.7570	8.8880	15.185

#1	.00049	-.00283	.07246	.38987	.27980	.00141	4.1643	.05495	.06316
#2	.00040	-.00273	.05770	.30399	.23878	.00063	3.6787	.04846	.05091

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00011	1.9703	.00068	-.00011	^ *****	.00024	-.00176	1.2697	-.00029
Stddev	.00000	.3189	.00025	.00063	----	.00092	.00016	.2033	.00023
%RSD	3.5369	16.186	36.856	589.16	----	379.53	9.1576	16.014	80.506

#1	.00011	2.1958	.00051	-.00055	^ -----	.00089	-.00188	1.4135	-.00012
#2	.00011	1.7448	.00086	.00034	39.23	-.00041	-.00165	1.1260	-.00045

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.29844	.00066	-.00074	.00004	.00385
Stddev	.04923	.00016	.00036	.00011	.00074
%RSD	16.495	24.497	48.661	291.66	19.263

#1	.33325	.00055	-.00048	-.00004	.00438
#2	.26363	.00078	-.00099	.00012	.00333

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	7589.1	12797.	225480.	21369.
Stddev	343.5	656.	4689.	644.
%RSD	4.5264	5.1295	2.0797	3.0134

#1	7346.2	12333.	222170.	20914.
#2	7832.0	13261.	228800.	21824.

Sample Name: CCV Acquired: 9/12/2013 7:17:56 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .18205	F 9.1822	F .16448	F .15610	F .17599	F .19252	F 9.7792	F .16277	F .17149	F .19434	F .17077	F 9.3264
Stddev	.01816	.9509	.00560	.00695	.01724	.01998	.9309	.00736	.00779	.01798	.01764	.9124
%RSD	9.9757	10.357	3.4036	4.4491	9.7985	10.379	9.5194	4.5219	4.5428	9.2514	10.331	9.7833
#1	.19490	8.5098	.16844	.16102	.18818	.17839	9.1210	.16797	.17700	.20706	.18324	8.6812
#2	.16921	9.8546	.16052	.15119	.16379	.20665	10.437	.15756	.16598	.18163	.15830	9.9715
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.50000	25.000	.50000	.50000	.50000	.50000	25.000	.50000	.50000	.50000	.50000	25.000
Range	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%
Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 9.2607	F 10.030	F .17540	F 9.4567	F .19656	F .17151	F .16314	F 8.8379	F .17543	F .17617	F 8.400	F .16656
Stddev	.8504	.424	.01864	.9097	.01859	.00353	.00756	.9020	.00835	.00803	.403	.00827
%RSD	9.1830	4.2312	10.628	9.6200	9.4597	2.0559	4.6348	10.205	4.7576	4.5574	4.792	4.9666
#1	8.6594	10.330	.16222	10.100	.20971	.16902	.16849	8.2002	.18133	.18184	8.685	.17241
#2	9.8621	9.7297	.18858	8.8134	.18341	.17400	.15780	9.4757	.16953	.17049	8.115	.16071
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	25.000	25.000	.50000	25.000	.50000	.50000	.50000	25.000	.50000	.50000	25.00	.50000
Range	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.00%	-10.000%
Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062				
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm				
Avg	F .15549	F 9.2840	F .17044	F .18223	F .17912	F .17546	F .17852	F .20074				
Stddev	.00748	.9204	.00821	.01859	.01728	.00733	.01754	.01834				
%RSD	4.8077	9.9135	4.8181	10.200	9.6490	4.1783	9.8224	9.1382				
#1	.16077	8.6332	.17625	.16908	.19135	.18064	.19092	.21371				
#2	.15020	9.9348	.16464	.19537	.16690	.17027	.16613	.18777				
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail				
Value	.50000	25.000	.50000	.50000	.50000	.50000	.50000	.50000				
Range	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774								
Units	Cts/S	Cts/S	Cts/S	Cts/S								
Avg	8973.7	15259.	158490.	17537.								
Stddev	231.2	376.	8089.	553.								
%RSD	2.5763	2.4643	5.1035	3.1533								
#1	8810.2	14993.	152770.	17928.								
#2	9137.1	15524.	164210.	17146.								

Sample Name: CCB Acquired: 9/12/2013 7:20:39 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00128	.00302	-.00127	-.00077	.00000	-.00001	.02325	-.00002	.00015	.00012	-.00213	.00351
Stddev	.00024	.00631	.00075	.00007	.00000	.00000	.00103	.00006	.00009	.00016	.00017	.00069
%RSD	18.470	208.78	59.056	9.6401	73.011	11.835	4.4502	265.52	64.296	126.76	7.8651	19.703

#1	.00111	.00748	-.00181	-.00082	.00000	-.00002	.02252	-.00006	.00008	.00001	-.00224	.00400
#2	.00144	-.00144	-.00074	-.00072	.00001	-.00001	.02398	.00002	.00021	.00024	-.00201	.00302

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05361	-.00008	-.00123	.00899	.00010	.00001	.00035	-.02013	-.00002	-.00038	F .0356	-.00116
Stddev	.01391	.00031	.00072	.00100	.00003	.00000	.00005	.00239	.00014	.00054	.0045	.00027
%RSD	25.952	369.72	58.561	11.171	28.142	24.681	13.095	11.894	823.61	142.72	12.53	23.017

#1	.04377	-.00030	-.00072	.00970	.00012	.00001	.00031	-.01844	.00008	.00000	.0324	-.00097
#2	.06344	.00014	-.00174	.00828	.00008	.00001	.00038	-.02183	-.00012	-.00076	.0387	-.00135

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00239	-.00646	-.00009	.00030	.00069	-.00205	.00015	-.00065
Stddev	.00280	.00340	.00008	.00006	.00008	.00067	.00004	.00021
%RSD	117.16	52.576	90.132	20.397	11.092	32.589	24.850	32.147

#1	-.00041	-.00406	-.00015	.00034	.00064	-.00252	.00012	-.00050
#2	-.00437	-.00886	-.00003	.00025	.00075	-.00158	.00017	-.00080

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5917.0	9473.7	117710.	15442.
Stddev	283.2	469.7	1916.	1590.
%RSD	4.7858	4.9584	1.6274	10.293
#1	6117.3	9805.8	119060.	16566.
#2	5716.8	9141.5	116350.	14318.

Sample Name: 480-45449-F-3-A Acquired: 9/12/2013 7:23:32 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00060	.03106	.00624	.04653	.02419	-.00005	147.78	.00015	.00017
Stddev	.00047	.00459	.00227	.00001	.00019	.00000	2.64	.00008	.00009
%RSD	78.474	14.790	36.414	.02872	.78168	2.3698	1.7885	53.579	49.585

#1	.00093	.02781	.00463	.04652	.02405	-.00005	145.92	.00020	.00011
#2	.00027	.03431	.00785	.04654	.02432	-.00005	149.65	.00009	.00023

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00063	.00020	1.3448	1.9148	2.4014	.01145	33.551	.16206	.15047
Stddev	.00013	.00004	.0180	.0517	.0505	.00053	.063	.00009	.00038
%RSD	20.645	17.661	1.3384	2.7001	2.1035	4.6242	.18807	.05406	.25527

#1	.00054	.00017	1.3321	1.8783	2.3657	.01108	33.596	.16213	.15020
#2	.00073	.00022	1.3575	1.9514	2.4371	.01182	33.506	.16200	.15074

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00150	7.5614	.00037	-.00173	F 83.24	-.00096	-.00158	6.7316	-.00053
Stddev	.00015	.1040	.00017	.00091	.05	.00089	.00061	.0918	.00021
%RSD	10.226	1.3754	44.646	52.770	.0641	91.800	38.912	1.3633	40.477

#1	.00161	7.4878	.00049	-.00109	83.20	-.00034	-.00201	6.6667	-.00068
#2	.00139	7.6349	.00025	-.00238	83.28	-.00159	-.00115	6.7965	-.00038

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.3794	.00103	-.00141	.00002	.01156
Stddev	.0204	.00003	.00132	.00018	.00011
%RSD	1.4797	2.9425	93.036	1068.7	.94258

#1	1.3650	.00101	-.00234	.00015	.01163
#2	1.3939	.00105	-.00048	-.00011	.01148

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4893.9	8202.8	93988.	11443.
Stddev	1.8	13.0	162.	98.
%RSD	.03669	.15842	.17287	.85654

#1	4892.6	8212.0	93873.	11512.
#2	4895.1	8193.6	94103.	11374.

Sample Name: 480-45449-F-4-A Acquired: 9/12/2013 7:26:26 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00076	.04271	.00034	.01495	.00906	-.00004	60.994	.00001	-.00001
Stddev	.00013	.00677	.00082	.00006	.00006	.00002	.873	.00006	.00004
%RSD	16.588	15.850	241.76	.39018	.60751	57.534	1.4305	530.33	331.14

#1	.00067	.03793	.00092	.01499	.00902	-.00005	60.377	.00006	.00002
#2	.00085	.04750	-.00024	.01491	.00909	-.00002	61.611	-.00003	-.00004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00081	.12744	.05841	.98799	1.0147	.00237	8.2108	.00216	.00244
Stddev	.00042	.00016	.00038	.01287	.0154	.00069	.0052	.00002	.00023
%RSD	51.518	.12321	.65884	1.3025	1.5213	29.312	.06354	1.1306	9.4532

#1	.00052	.12733	.05814	.97889	1.0038	.00188	8.2145	.00214	.00261
#2	.00111	.12756	.05868	.99709	1.0256	.00286	8.2071	.00218	.00228

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00001	1.7618	.00109	-.00012	F 12.19	-.00278	-.00112	2.6449	-.00003
Stddev	.00018	.0243	.00002	.00066	.00	.00302	.00108	.0497	.00058
%RSD	1566.5	1.3797	1.4474	574.81	.0380	108.44	96.967	1.8799	2197.5

#1	-.00012	1.7446	.00108	-.00059	12.19	-.00491	-.00035	2.6098	-.00044
#2	.00014	1.7790	.00110	.00035	12.19	-.00065	-.00188	2.6801	.00038

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.14597	.00076	-.00231	.00004	.04837
Stddev	.00275	.00025	.00008	.00010	.00027
%RSD	1.8812	32.468	3.3625	267.97	.56689

#1	.14403	.00059	-.00225	-.00003	.04857
#2	.14791	.00094	-.00236	.00011	.04818

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5176.5	8458.8	96706.	11686.
Stddev	1.0	.2	159.	91.
%RSD	.01852	.00252	.16404	.77468

#1	5177.2	8458.9	96594.	11750.
#2	5175.8	8458.6	96818.	11622.

Sample Name: 480-45454-F-1-A Acquired: 9/12/2013 7:29:14 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00341	.20467	-.00087	.16834	.13578	-.00001	26.642	.01013	.02757
Stddev	.00027	.02352	.00150	.00118	.00018	.00000	.453	.00006	.00018
%RSD	8.0468	11.493	171.53	.69953	.13047	23.983	1.7010	.54526	.64182

#1	.00322	.18804	.00019	.16751	.13590	-.00000	26.322	.01017	.02744
#2	.00360	.22130	-.00193	.16917	.13565	-.00001	26.962	.01009	.02769

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00407	.48356	.72354	2.2539	2.7247	.00984	7.0593	.04487	.04060
Stddev	.00001	.00081	.01111	.0337	.0131	.00068	.0040	.00012	.00014
%RSD	.19044	.16688	1.5349	1.4945	.48028	6.9060	.05722	.27453	.33857

#1	.00408	.48413	.71569	2.2301	2.7155	.00936	7.0564	.04478	.04069
#2	.00407	.48299	.73139	2.2777	2.7340	.01032	7.0621	.04495	.04050

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01282	30.653	.00743	.05247	7.139	.00006	.00003	5.5004	.00417
Stddev	.00002	.500	.00037	.00032	.013	.00093	.00065	.1111	.00018
%RSD	.14765	1.6305	4.9626	.60459	.1761	1498.2	1921.8	2.0191	4.3939

#1	.01283	30.299	.00717	.05270	7.130	.00072	.00050	5.4219	.00404
#2	.01281	31.006	.00769	.05225	7.148	-.00059	-.00043	5.5790	.00430

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.14525	.00476	-.00108	.00063	.70286
Stddev	.00201	.00014	.00253	.00010	.00032
%RSD	1.3817	2.9240	233.90	15.765	.04522

#1	.14383	.00486	.00071	.00070	.70264
#2	.14667	.00466	-.00287	.00056	.70309

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5155.9	8474.8	96559.	11674.
Stddev	6.1	12.4	206.	138.
%RSD	.11819	.14594	.21360	1.1820

#1	5160.2	8483.5	96705.	11771.
#2	5151.6	8466.0	96413.	11576.

Sample Name: 480-45486-C-1-A Acquired: 9/12/2013 7:32:00 Type: Unk

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00057	.04437	.00172	.33898	.11992	-.00002	24.236	.00004	.00022
Stddev	.00033	.01152	.00035	.00087	.00015	.00008	.285	.00006	.00010
%RSD	58.693	25.969	20.675	.25547	.12875	310.00	1.1759	136.77	46.918

#1	.00033	.03623	.00147	.33837	.11981	-.00008	24.035	.00009	.00029
#2	.00081	.05252	.00197	.33959	.12003	.00003	24.438	.00000	.00015

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00114	.01042	.64237	1.1596	1.4128	.00157	3.7721	.03061	.02744
Stddev	.00002	.00006	.01035	.0315	.0195	.00068	.0026	.00013	.00058
%RSD	1.7998	.56064	1.6111	2.7157	1.3800	43.450	.06874	.41326	2.1091

#1	.00113	.01038	.63505	1.1373	1.3990	.00109	3.7703	.03052	.02703
#2	.00116	.01046	.64969	1.1818	1.4265	.00205	3.7739	.03069	.02785

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00865	41.427	.00414	-.00290	F 10.84	.00121	-.00382	6.5213	.00012
Stddev	.00003	.564	.00025	.00015	.01	.00027	.00138	.0560	.00023
%RSD	.37520	1.3613	5.9954	5.1692	.0649	22.213	35.975	.85810	183.86

#1	.00867	41.029	.00397	-.00280	10.83	.00102	-.00480	6.4818	-.00004
#2	.00863	41.826	.00432	-.00301	10.84	.00141	-.00285	6.5609	.00029

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.08544	.02079	-.00267	.00030	.13864
Stddev	.00097	.00034	.00141	.00018	.00092
%RSD	1.1372	1.6491	52.857	58.152	.66114

#1	.08475	.02054	-.00167	.00043	.13799
#2	.08613	.02103	-.00367	.00018	.13929

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5132.4	8466.7	96617.	11681.
Stddev	19.0	17.1	128.	112.
%RSD	.37116	.20197	.13280	.95728

#1	5145.8	8478.8	96708.	11760.
#2	5118.9	8454.6	96526.	11602.

Sample Name: 480-45467-E-1-A Acquired: 9/12/2013 7:34:47 Type: Unk
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00095	.37992	.09121	14.305	.50688	-.00005	62.551	.00053	.04915
Stddev	.00028	.00455	.00182	.002	.00299	.00004	.250	.00005	.00008
%RSD	28.979	1.1981	1.9990	.01272	.58928	84.037	.39987	10.138	.17175

#1	.00115	.38314	.09250	14.306	.50477	-.00008	62.374	.00049	.04909
#2	.00076	.37670	.08992	14.303	.50899	-.00002	62.728	.00057	.04921

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2714	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.31453	.04765	114.29	553.36	87.219	.28535	143.53	.87252	.91025
Stddev	.00051	.00028	1.11	3.52	.888	.00305	.41	.00317	.01205
%RSD	.16137	.57991	.96862	.63574	1.0186	1.0704	.28798	.36278	1.3235

#1	.31418	.04784	113.51	550.87	87.847	.28319	143.24	.87028	.90173
#2	.31489	.04745	115.07	555.84	86.591	.28751	143.83	.87476	.91877

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	818.326 { 41}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02167	1636.6	.36851	.01037	F 33.42	.01759	.00322	17.061	.07500
Stddev	.00011	19.5	.00043	.00037	.09	.00067	.00150	.089	.00001
%RSD	.50355	1.1935	.11580	3.5836	.2563	3.8105	46.592	.51959	.01229

#1	.02159	1622.8	.36821	.01011	33.48	.01711	.00427	16.998	.07500
#2	.02175	1650.4	.36881	.01064	33.36	.01806	.00216	17.123	.07501

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					10.00				
Low Limit					-.0100				

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	3.4915	.19691	-.00427	.03313	.18263
Stddev	.0313	.00049	.00062	.00102	.00102
%RSD	.89683	.24776	14.432	3.0788	.56114

#1	3.4693	.19656	-.00383	.03241	.18335
#2	3.5136	.19725	-.00470	.03385	.18191

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3877.7	7323.4	80030.	11254.
Stddev	2.5	2.2	16.	3.
%RSD	.06497	.03024	.01987	.02407

#1	3875.9	7321.9	80041.	11256.
#2	3879.5	7325.0	80018.	11252.

Sample Name: RB Acquired: 9/12/2013 7:37:46 Type: Unk
 Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2	313.042 {108}	317.933 {106}	228.802 {447}	228.616 {447}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_2243)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00083	.01189	-.00282	.01713	.00009	.00001	.01802	-.00004	.00006
Stddev	.00043	.01056	.00235	.00221	.00001	.00006	.00083	.00007	.00003
%RSD	52.435	88.799	83.412	12.869	15.996	426.24	4.5834	182.34	47.317

#1	.00052	.00442	-.00448	.01869	.00010	.00006	.01743	.00001	.00004
#2	.00113	.01935	-.00116	.01557	.00008	-.00003	.01860	-.00009	.00008

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2
Line	267.716 {126}	324.754 {104}	259.940 {130}	766.490 { 44}	766.490 { 44}2	670.784 { 50}	279.079 {121}2	257.610 {131}	257.610 {131}2
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3774)	(Y_3600)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00005	-.00138	.02446	.46458	.08349	.00000	.03318	.00015	.00049
Stddev	.00014	.00003	.00053	.02763	.00054	.00071	.00310	.00001	.00018
%RSD	287.10	1.8878	2.1861	5.9473	.64647	109520.	9.3448	5.9651	36.333

#1	.00005	-.00136	.02484	.48412	.08311	.00050	.03098	.00016	.00062
#2	-.00014	-.00139	.02408	.44504	.08387	-.00050	.03537	.00015	.00036

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899
Line	202.030 {467}	589.592 { 57}	231.604 {446}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}	288.158 {117}2	189.989 {477}
IS Ref	(Y_2243)	(Y_3774)	(In2306)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00015	.42260	-.00031	-.00069	.0211	-.00066	-.00229	.14770	-.00030
Stddev	.00014	.02130	.00002	.00049	.0040	.00002	.00250	.01106	.00043
%RSD	94.820	5.0406	6.4996	70.533	18.97	3.5359	108.98	7.4904	142.43

#1	.00005	.43766	-.00032	-.00035	.0240	-.00064	-.00406	.15553	-.00060
#2	.00024	.40754	-.00029	-.00104	.0183	-.00067	-.00053	.13988	.00000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Line	407.771 { 83}	334.904 {101}	190.856 {477}	292.402 {115}	206.200 {163}
IS Ref	(Y_3774)	(Y_3600)	(In2306)	(Y_3600)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00092	.00009	-.00109	.00020	-.00110
Stddev	.00005	.00012	.00042	.00017	.00006
%RSD	5.7722	137.83	38.448	87.848	5.8678

#1	.00096	.00000	-.00079	.00032	-.00115
#2	.00089	.00018	-.00138	.00007	-.00106

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5455.8	8716.6	99994.	11591.
Stddev	18.8	24.0	174.	64.
%RSD	.34542	.27520	.17384	.55096

#1	5469.2	8733.6	99871.	11636.
#2	5442.5	8699.6	100120.	11545.

Sample Name: CRI-1590869 Acquired: 9/12/2013 7:40:36 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00344	.19873	.00996	W .02970	.00183	.00167	.47602	.00089	.00347	.00378	.00712
Stddev	.00038	.00858	.00004	.00019	.00001	.00003	.00762	.00003	.00005	.00009	.00011
%RSD	11.103	4.3176	.41452	.64350	.73385	1.5949	1.6001	3.6990	1.5051	2.5006	1.4959

#1	.00317	.19266	.00993	.02984	.00182	.00165	.47064	.00091	.00343	.00372	.00704
#2	.00371	.20480	.00999	.02957	.00184	.00169	.48141	.00087	.00350	.00385	.00719

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.02000							
Range				30.000%							

Elem	Fe2599	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.05550	.64774	.39954	.02378	.19048	.00290	.00269	.00858	.98747	.00843	W .00334
Stddev	.00002	.04789	.00081	.00188	.00048	.00007	.00038	.00018	.00534	.00042	.00100
%RSD	.03553	7.3930	.20302	7.9251	.25323	2.5280	14.174	2.1239	.54063	4.9775	30.022

#1	.05549	.61388	.40012	.02245	.19082	.00285	.00296	.00845	.98370	.00873	.00263
#2	.05552	.68161	.39897	.02511	.19014	.00295	.00242	.00871	.99125	.00814	.00405

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value											.00500
Range											-30.000%

Elem	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .2337	.01662	W .01046	.51704	.00826	.00502	.00474	.01671	.00430	.00899
Stddev	.0002	.00107	.00032	.02832	.00039	.00001	.00012	.00004	.00016	.00050
%RSD	.0939	6.4351	3.0532	5.4780	4.7487	.21025	2.5009	.22781	3.7834	5.5625

#1	.2335	.01738	.01069	.49702	.00798	.00502	.00465	.01674	.00442	.00934
#2	.2338	.01587	.01024	.53707	.00854	.00503	.00482	.01668	.00419	.00864

Check ?	Chk Fail	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	.0030		.01500							
Range	50.00%		-30.000%							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5496.5	8777.8	99943.	11609.
Stddev	4.4	18.2	94.	84.
%RSD	.08024	.20686	.09370	.72176

#1	5499.6	8790.7	100010.	11669.
#2	5493.4	8765.0	99876.	11550.

Sample Name: ICSA-1580608 Acquired: 9/12/2013 7:43:28 Type: QC

Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00048	439.22	.00120	.00493	.00160	-.00010	409.35	.00091	-.00090	.00065	.00076	167.18
Stddev	.00049	9.09	.00123	.00009	.00003	.00001	8.32	.00005	.00003	.00027	.00004	2.83
%RSD	103.04	2.0704	102.55	1.7722	1.8416	14.680	2.0325	4.9294	3.8111	41.684	5.0045	1.6947

#1	.00082	432.79	.00033	.00500	.00157	-.00011	403.47	.00095	-.00088	.00085	.00073	165.18
#2	.00013	445.65	.00207	.00487	.00162	-.00009	415.23	.00088	-.00093	.00046	.00079	169.18

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.17648	.05137	.00171	461.71	.00117	.00073	-.00072	.16443	.00012	-.00916	F -.0814	-.00573
Stddev	.07114	.00153	.00054	.16	.00004	.00061	.00042	.00404	.00075	.00392	.0002	.00104
%RSD	40.309	2.9699	31.285	.03411	3.4796	83.405	58.585	2.4544	626.32	42.784	.2645	18.188

#1	.12618	.05245	.00133	461.82	.00120	.00030	-.00101	.16157	.00065	-.01193	-.0812	-.00646
#2	.22678	.05029	.00209	461.60	.00114	.00117	-.00042	.16728	-.00041	-.00639	-.0815	-.00499

Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0060	
Low Limit											-.0060	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.01017	.01413	.00132	.00434	.00300	-.00174	-.00049	.00182
Stddev	.00872	.00238	.00101	.00021	.00012	.00220	.00031	.00082
%RSD	85.757	16.847	77.032	4.7551	3.8936	126.20	62.923	45.188

#1	-.01634	.01581	.00203	.00419	.00292	-.00329	-.00027	.00124
#2	-.00400	.01244	.00060	.00448	.00308	-.00019	-.00071	.00240

Check ?	Chk Pass	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4122.7	7736.7	85735.	10951.
Stddev	2.7	9.4	346.	156.
%RSD	.06495	.12114	.40404	1.4252
#1	4120.9	7743.3	85980.	11062.
#2	4124.6	7730.0	85490.	10841.

Sample Name: ICSAB-1567957 Acquired: 9/12/2013 7:46:27 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.18813	429.07	.10255	.00754	.41912	.44256	407.79	.86774	.44243	.42675	.45616	81.460
Stddev	.00102	5.26	.00116	.00028	.00029	.00703	7.61	.00218	.00044	.00290	.00303	.802
%RSD	.54094	1.2253	1.1306	3.7796	.06801	1.5895	1.8659	.25101	.09860	.67897	.66530	.98472

#1	.18741	425.36	.10173	.00734	.41932	.43759	402.41	.86620	.44274	.42470	.45401	80.893
#2	.18885	432.79	.10337	.00774	.41892	.44754	413.17	.86928	.44213	.42880	.45830	82.027

Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value												
Range												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.13601	.03950	.44680	458.76	.41899	.41234	-.00001	.12066	.87066	F .03658	F .3335	.52434
Stddev	.00987	.00029	.00737	2.28	.00154	.00073	.00007	.00062	.00112	.00088	.0049	.00051
%RSD	7.2541	.73934	1.6489	.49738	.36821	.17624	509.65	.51319	.12842	2.4167	1.477	.09734

#1	.14299	.03971	.44159	457.14	.41790	.41286	.00004	.12023	.86987	.03595	.3370	.52470
#2	.12903	.03930	.45201	460.37	.42008	.41183	-.00007	.12110	.87145	.03720	.3300	.52398

Check ?	None	None	None	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	Chk Fail	Chk Fail	Chk Pass
Value										.05000	.2000	
Range										-20.000%	20.00%	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .03413	.90661	-.00031	.43087	.00309	.08478	.41629	.83075
Stddev	.00694	.02505	.00033	.00627	.00008	.00304	.00088	.00344
%RSD	20.335	2.7631	107.66	1.4560	2.6467	3.5915	.21129	.41449

#1	.02922	.88890	-.00054	.42644	.00303	.08263	.41567	.82831
#2	.03904	.92433	-.00007	.43531	.00315	.08693	.41691	.83318

Check ?	Chk Fail	Chk Pass	None	None	None	Chk Pass	Chk Pass	Chk Pass
Value	.05000							
Range	-20.000%							

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4097.5	7715.6	85077.	10789.
Stddev	4.8	3.9	50.	113.
%RSD	.11710	.05076	.05846	1.0513
#1	4094.1	7718.3	85113.	10870.
#2	4100.9	7712.8	85042.	10709.

Sample Name: CCV Acquired: 9/12/2013 7:49:26 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .43665	F 20.957	F .43707	F .42259	F .42616	F .42932	F 21.331	F .42040	F .43424	F .44358	F .42612	F 20.336
Stddev	.00224	.218	.00049	.00010	.00109	.00574	.199	.00003	.00024	.00202	.00307	.290
%RSD	.51260	1.0401	.11272	.02362	.25519	1.3370	.93344	.00668	.05461	.45641	.71935	1.4269
#1	.43507	20.803	.43741	.42252	.42693	.42526	21.190	.42038	.43407	.44215	.42395	20.131
#2	.43823	21.111	.43672	.42266	.42539	.43338	21.472	.42042	.43441	.44501	.42829	20.541
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	.50000	25.000	.50000	.50000	.50000	.50000	25.000	.50000	.50000	.50000	.50000	25.000
Range	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%
Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 21.025	F 22.299	F .41257	F 21.311	F .44532	F .40248	F .42122	F 20.316	F .44186	F .43989	F 22.15	F .44271
Stddev	.254	.138	.00325	.047	.00151	.00513	.00043	.315	.00018	.00033	.01	.00101
%RSD	1.2098	.62090	.78785	.21939	.33801	1.2758	.10196	1.5491	.04037	.07541	.0374	.22728
#1	20.845	22.201	.41027	21.278	.44425	.39885	.42153	20.094	.44199	.43966	22.16	.44343
#2	21.205	22.397	.41487	21.344	.44638	.40611	.42092	20.539	.44174	.44013	22.14	.44200
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	25.000	25.000	.50000	25.000	.50000	.50000	.50000	25.000	.50000	.50000	25.00	.50000
Range	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.00%	-10.000%
Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062				
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm				
Avg	F .42661	F 20.649	F .43041	F .41498	F .42091	F .44058	F .42287	F .43845				
Stddev	.00001	.307	.00154	.00529	.00175	.00729	.00308	.00121				
%RSD	.00324	1.4865	.35824	1.2744	.41638	1.6543	.72836	.27636				
#1	.42660	20.432	.42932	.41124	.41967	.44574	.42069	.43931				
#2	.42662	20.866	.43151	.41872	.42215	.43543	.42505	.43759				
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail				
Value	.50000	25.000	.50000	.50000	.50000	.50000	.50000	.50000				
Range	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%	-10.000%				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774								
Units	Cts/S	Cts/S	Cts/S	Cts/S								
Avg	5065.2	8580.4	96430.	11505.								
Stddev	9.9	10.8	302.	45.								
%RSD	.19552	.12607	.31310	.38923								
#1	5072.2	8588.0	96644.	11537.								
#2	5058.2	8572.7	96217.	11473.								

Sample Name: CCB Acquired: 9/12/2013 7:52:14 Type: QC
Method: ICAP1(v445) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00049	.06080	.00036	.00243	.00006	.00006	.03840	.00003	.00013	.00024	-.00093	.01400
Stddev	.00006	.00793	.00330	.00026	.00000	.00006	.00028	.00002	.00002	.00020	.00013	.00230
%RSD	13.119	13.042	920.96	10.815	6.5763	97.334	.71772	51.605	17.353	82.859	14.243	16.443

#1	.00054	.06641	-.00197	.00262	.00006	.00002	.03860	.00005	.00015	.00010	-.00102	.01563
#2	.00045	.05519	.00269	.00225	.00006	.00010	.03821	.00002	.00011	.00038	-.00083	.01237

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit												
Low Limit												

Elem	K_7664	K_7664-2	Li6707	Mg2790	Mn2576	Mn2576-2	Mo2020	Na5895	Ni2316	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.10110	.00657	-.00082	.03931	.00012	.00008	.00014	.01721	-.00008	-.00022	F .0092	-.00112
Stddev	.03881	.00038	.00019	.00118	.00005	.00069	.00003	.00274	.00001	.00035	.0022	.00054
%RSD	38.392	5.7572	22.796	2.9947	45.520	909.59	19.707	15.906	17.707	160.35	24.09	48.252

#1	.07365	.00630	-.00095	.04014	.00008	.00057	.00016	.01528	-.00007	.00003	.0107	-.00074
#2	.12854	.00684	-.00069	.03848	.00016	-.00041	.00012	.01915	-.00009	-.00046	.0076	-.00150

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit											.0030	
Low Limit											-.0040	

Elem	Se1960	Si2881	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00420	.02998	-.00019	.00016	.00036	-.00124	.00012	-.00016
Stddev	.00065	.00570	.00013	.00001	.00039	.00264	.00014	.00025
%RSD	15.461	19.001	70.517	6.6466	110.12	212.53	114.59	157.00

#1	-.00374	.02596	-.00009	.00017	.00064	.00062	.00002	.00002
#2	-.00466	.03401	-.00028	.00016	.00008	-.00311	.00022	-.00034

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5463.5	8698.5	99038.	11624.
Stddev	6.0	6.1	826.	204.
%RSD	.11062	.07062	.83381	1.7569
#1	5467.8	8694.1	98454.	11769.
#2	5459.2	8702.8	99622.	11480.

ICP-MS Run Log

Review and Date: 9/13/13 *ym*

Analyst: *ym*

Dataset File Path: C:\Elandata\Dataset\E091213A\

Report Date/Time: Friday, September 13, 2013 11:26:55

Pipettes Used: 08-20-13 (# 1, 9, 13,15)

Internal Standard ID#: 1582164

Sample ID - Solution ID	Analysis Date and Time
rinse	13:18:56 Thu 12-Sep-13
ICIS-1540064	13:25:58 Thu 12-Sep-13
IC-1582169	13:31:28 Thu 12-Sep-13
IC-1582170	13:36:59 Thu 12-Sep-13
IC-1582171	13:42:31 Thu 12-Sep-13
ICV-1595811	13:50:05 Thu 12-Sep-13
ICB-1540064	13:56:36 Thu 12-Sep-13
CRI-1582166	14:02:07 Thu 12-Sep-13
ICSA-1582167	14:07:39 Thu 12-Sep-13
ICSAB-1582168	14:14:11 Thu 12-Sep-13
CCV-1582170	14:20:44 Thu 12-Sep-13
CCB-1540064	14:27:19 Thu 12-Sep-13
MB 480-138383/1-A	14:32:55 Thu 12-Sep-13
LCS 480-138383/2-A	14:38:26 Thu 12-Sep-13
LCSD 480-138383/3-A	14:43:54 Thu 12-Sep-13
480-45191-M-1-B	14:49:22 Thu 12-Sep-13
rinse	14:54:50 Thu 12-Sep-13
480-45284-A-1-B	15:00:19 Thu 12-Sep-13
rinse	15:06:49 Thu 12-Sep-13
480-44894-F-2-E	15:12:19 Thu 12-Sep-13
rinse	15:17:49 Thu 12-Sep-13
CCV-1582170	15:23:22 Thu 12-Sep-13
CCB-1540064	15:29:55 Thu 12-Sep-13
480-45418-C-1-C	15:35:25 Thu 12-Sep-13
480-45418-C-5-G	15:41:57 Thu 12-Sep-13
480-45418-C-5-G SD@5	15:48:29 Thu 12-Sep-13
480-45418-C-5-G PDS	15:55:01 Thu 12-Sep-13
480-45418-C-5-H MS	16:01:34 Thu 12-Sep-13
480-45418-C-5-I MSD	16:08:07 Thu 12-Sep-13
480-45418-C-6-C	16:14:41 Thu 12-Sep-13
480-45418-C-7-C	16:20:12 Thu 12-Sep-13
480-45418-A-10-C	16:26:38 Thu 12-Sep-13
rinse	16:32:06 Thu 12-Sep-13
CCV-1582170	16:37:37 Thu 12-Sep-13
CCB-1540064	16:44:10 Thu 12-Sep-13
480-45480-C-2-B	16:49:39 Thu 12-Sep-13
480-45481-F-1-B	16:55:07 Thu 12-Sep-13
480-45481-F-2-B	17:00:36 Thu 12-Sep-13

480-45480-C-1-B	17:06:06 Thu 12-Sep-13
rinse	17:11:35 Thu 12-Sep-13
480-45493-D-1-A	17:17:06 Thu 12-Sep-13
480-45493-D-3-A	17:23:36 Thu 12-Sep-13
rinse	17:30:07 Thu 12-Sep-13
MB 480-137745/1-D	17:41:48 Thu 12-Sep-13
CCV-1582170	17:47:21 Thu 12-Sep-13
CCB-1540064	17:53:57 Thu 12-Sep-13
MB 480-138619/13-B	18:08:35 Thu 12-Sep-13
LCS 480-138619/14-B	18:14:08 Thu 12-Sep-13
680-93997-A-1-A	18:19:42 Thu 12-Sep-13
680-93997-A-1-A SD@5	18:25:12 Thu 12-Sep-13
680-93997-A-1-A PDS	18:30:38 Thu 12-Sep-13
680-93997-A-1-B MS	18:36:06 Thu 12-Sep-13
680-93997-A-1-C MSD	18:41:33 Thu 12-Sep-13
rinse	18:47:01 Thu 12-Sep-13
480-45431-A-1-B	18:53:30 Thu 12-Sep-13
rinse	18:59:59 Thu 12-Sep-13
CCV-1582170	19:06:31 Thu 12-Sep-13
CCB-1540064	19:13:06 Thu 12-Sep-13
480-45585-B-13-B	19:18:39 Thu 12-Sep-13
480-45585-B-14-B	19:24:09 Thu 12-Sep-13
480-45585-B-15-B	19:29:40 Thu 12-Sep-13
rinse	19:35:11 Thu 12-Sep-13
MB 480-137635/17-B	19:43:42 Thu 12-Sep-13
LCS 480-137635/18-B	19:49:14 Thu 12-Sep-13
480-45529-B-1-B	19:54:46 Thu 12-Sep-13
480-45529-B-2-B	20:00:19 Thu 12-Sep-13
480-45529-B-3-B	20:05:49 Thu 12-Sep-13
480-45529-B-4-B	20:11:15 Thu 12-Sep-13
CCV-1582170	20:16:46 Thu 12-Sep-13
CCB-1540064	20:23:21 Thu 12-Sep-13
480-45529-B-5-B	20:28:53 Thu 12-Sep-13
480-45529-B-6-B	20:34:21 Thu 12-Sep-13
rinse	20:39:48 Thu 12-Sep-13
480-45585-B-1-D	20:45:17 Thu 12-Sep-13
480-45585-B-1-D SD@5	20:50:46 Thu 12-Sep-13
480-45585-B-1-D PDS	20:56:15 Thu 12-Sep-13
480-45585-B-1-E MS	21:01:45 Thu 12-Sep-13
480-45585-B-1-F MSD	21:07:15 Thu 12-Sep-13
480-45585-B-2-B	21:12:46 Thu 12-Sep-13
480-45585-B-3-D	21:18:17 Thu 12-Sep-13
CCV-1582170	21:23:50 Thu 12-Sep-13
CCB-1540064	21:30:25 Thu 12-Sep-13
480-45585-B-3-D SD@5	21:36:00 Thu 12-Sep-13
480-45585-B-3-D PDS	21:41:32 Thu 12-Sep-13
480-45585-B-3-E MS	21:47:04 Thu 12-Sep-13
480-45585-B-3-F MSD	21:52:34 Thu 12-Sep-13

480-45585-B-4-B	21:58:00 Thu 12-Sep-13
480-45585-B-5-B	22:03:26 Thu 12-Sep-13
480-45585-B-6-B	22:08:53 Thu 12-Sep-13
480-45585-B-7-B	22:14:21 Thu 12-Sep-13
480-45585-B-8-B	22:19:49 Thu 12-Sep-13
480-45585-B-9-B	22:25:18 Thu 12-Sep-13
CCV-1582170	22:30:50 Thu 12-Sep-13
CCB-1540064	22:37:22 Thu 12-Sep-13
480-45585-B-10-B	22:42:52 Thu 12-Sep-13
480-45585-B-11-B	22:48:21 Thu 12-Sep-13
480-45585-B-12-B	22:53:51 Thu 12-Sep-13
rinse	22:59:22 Thu 12-Sep-13
rinse	23:04:51 Thu 12-Sep-13
CCV-1582170	23:10:21 Thu 12-Sep-13
CCB-1540064	23:16:56 Thu 12-Sep-13
rinse	23:22:32 Thu 12-Sep-13
460-62167-A-21-B@10	23:28:04 Thu 12-Sep-13
rinse	23:33:36 Thu 12-Sep-13
rinse	23:39:08 Thu 12-Sep-13
rinse	23:44:37 Thu 12-Sep-13
CCV-1582170	23:50:08 Thu 12-Sep-13
CCB-1540064	23:56:41 Thu 12-Sep-13
rinseC	00:02:09 Fri 13-Sep-13
rinseA	00:08:07 Fri 13-Sep-13
rinseB	00:14:04 Fri 13-Sep-13
rinse	00:20:03 Fri 13-Sep-13
rinse	00:26:02 Fri 13-Sep-13
CCV-1582170	00:32:03 Fri 13-Sep-13
CCB-1540064	00:38:39 Fri 13-Sep-13
rinse	00:44:14 Fri 13-Sep-13
ICIS-1540064	00:53:46 Fri 13-Sep-13
IC-1582169	00:59:16 Fri 13-Sep-13
IC-1582170	01:04:47 Fri 13-Sep-13
IC-1582171	01:10:20 Fri 13-Sep-13
ICV-1595811	01:17:53 Fri 13-Sep-13
ICB-1540064	01:24:24 Fri 13-Sep-13
CRI-1582166	01:29:55 Fri 13-Sep-13
ICSA-1582167	01:35:27 Fri 13-Sep-13
ICSAB-1582168	01:41:59 Fri 13-Sep-13
CCV-1582170	01:48:32 Fri 13-Sep-13
CCB-1540064	01:55:07 Fri 13-Sep-13
MB 480-138603/1-A	02:00:40 Fri 13-Sep-13
LCS 480-138603/2-A	02:06:10 Fri 13-Sep-13
480-45585-A-1-D	02:11:41 Fri 13-Sep-13
480-45585-A-1-D SD@5	02:17:12 Fri 13-Sep-13
480-45585-A-1-D PDS	02:22:43 Fri 13-Sep-13
480-45585-A-1-E MS	02:28:14 Fri 13-Sep-13
480-45585-A-1-F MSD	02:33:46 Fri 13-Sep-13

480-45585-A-2-B	02:39:19 Fri 13-Sep-13
480-45585-A-3-D	02:44:52 Fri 13-Sep-13
480-45585-A-3-D SD@5	02:50:25 Fri 13-Sep-13
CCV-1582170	02:55:59 Fri 13-Sep-13
CCB-1540064	03:02:35 Fri 13-Sep-13
480-45585-A-3-D PDS	03:08:10 Fri 13-Sep-13
480-45585-A-3-E MS	03:13:44 Fri 13-Sep-13
480-45585-A-3-F MSD	03:19:19 Fri 13-Sep-13
480-45585-A-4-B	03:24:54 Fri 13-Sep-13
480-45585-A-5-B	03:30:30 Fri 13-Sep-13
480-45585-A-6-B	03:36:02 Fri 13-Sep-13
480-45585-A-7-B	03:41:31 Fri 13-Sep-13
480-45585-A-8-B	03:47:01 Fri 13-Sep-13
480-45585-A-9-B	03:52:30 Fri 13-Sep-13
480-45585-A-10-B	03:58:01 Fri 13-Sep-13
CCV-1582170	04:03:33 Fri 13-Sep-13
CCB-1540064	04:10:09 Fri 13-Sep-13
480-45585-A-11-B	04:15:42 Fri 13-Sep-13
480-45585-A-12-B	04:21:14 Fri 13-Sep-13
480-45585-A-13-B	04:26:45 Fri 13-Sep-13
480-45585-A-14-B	04:32:18 Fri 13-Sep-13
480-45585-A-15-B	04:37:50 Fri 13-Sep-13
rinse	04:43:23 Fri 13-Sep-13
480-45488-B-1-B	04:49:57 Fri 13-Sep-13
480-45633-C-1-B	04:57:31 Fri 13-Sep-13
480-45633-C-3-B	05:03:06 Fri 13-Sep-13
rinse	05:08:41 Fri 13-Sep-13
CCV-1582170	05:14:16 Fri 13-Sep-13
CCB-1540064	05:20:49 Fri 13-Sep-13
MB 480-138604/1-A	05:26:21 Fri 13-Sep-13
LCS 480-138604/2-A	05:31:54 Fri 13-Sep-13
480-45591-A-1-A	05:37:22 Fri 13-Sep-13
rinse	05:42:51 Fri 13-Sep-13
480-45608-A-1-A	05:48:21 Fri 13-Sep-13
480-45608-A-2-A	05:53:51 Fri 13-Sep-13
480-45608-A-3-A	05:59:21 Fri 13-Sep-13
480-45608-A-3-A SD@5	06:04:52 Fri 13-Sep-13
480-45608-A-3-A PDS	06:10:24 Fri 13-Sep-13
480-45608-A-3-B MS	06:15:56 Fri 13-Sep-13
CCV-1582170	06:21:30 Fri 13-Sep-13
CCB-1540064	06:28:02 Fri 13-Sep-13
480-45608-A-3-C MSD	06:33:33 Fri 13-Sep-13
480-45608-A-4-A	06:39:06 Fri 13-Sep-13
480-45608-A-5-A	06:44:40 Fri 13-Sep-13
480-45561-A-1-B	06:52:13 Fri 13-Sep-13
480-45561-A-2-B	06:57:48 Fri 13-Sep-13
480-45561-A-3-B	07:03:23 Fri 13-Sep-13
480-45561-A-4-B	07:08:54 Fri 13-Sep-13

rinse	07:14:22 Fri 13-Sep-13
480-45529-A-1-B	07:20:50 Fri 13-Sep-13
480-45529-A-2-B	07:26:19 Fri 13-Sep-13
CCV-1582170	07:31:51 Fri 13-Sep-13
CCB-1540064	07:38:26 Fri 13-Sep-13
480-45529-A-3-B	07:43:59 Fri 13-Sep-13
480-45529-A-4-B	07:49:29 Fri 13-Sep-13
480-45529-A-5-B	07:54:59 Fri 13-Sep-13
480-45529-A-6-B	08:00:30 Fri 13-Sep-13
rinse	08:06:01 Fri 13-Sep-13
480-45397-D-1-B	08:12:33 Fri 13-Sep-13
480-45397-D-3-B	08:18:05 Fri 13-Sep-13
rinse	08:23:38 Fri 13-Sep-13
480-45491-A-1-B	08:30:11 Fri 13-Sep-13
480-45491-A-2-B	08:35:45 Fri 13-Sep-13
CCV-1582170	08:43:19 Fri 13-Sep-13
CCB-1540064	08:49:52 Fri 13-Sep-13
rinseC	08:55:21 Fri 13-Sep-13
rinseA	09:01:18 Fri 13-Sep-13
rinseB	09:07:16 Fri 13-Sep-13
rinse	09:13:14 Fri 13-Sep-13
rinse	09:19:13 Fri 13-Sep-13
CCV-1582170	09:25:14 Fri 13-Sep-13
CCB-1540064	09:31:50 Fri 13-Sep-13

ICP-MS Report

Sample ID: ICIS-1540064

Sample Date/Time: Thursday, September 12, 2013 13:25:58

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	265591				ug/L
Li	7	14788				ug/L
Be	9	14				ug/L
[> Sc	45	199229				ug/L
V	51	865				ug/L
Cr	52	2992				ug/L
Mn	55	5471				ug/L
[Co	59	93				ug/L
Ni	60	46				ug/L
Cu	63	281				ug/L
Zn	66	139				ug/L
[> Ge	72	124914				ug/L
As	75	117				ug/L
Br	79	1071				ug/L
Se	82	-2				ug/L
Kr	82	44				ug/L
Kr	83	66				ug/L
[Kr	84	322				ug/L
Kr	86	161				ug/L
Sr	88	545				ug/L
[> Y	89	805962				ug/L
[Mo	98	38				ug/L
Ag	107	67				ug/L
Cd	111	460				ug/L
[> In	115	370675				ug/L
Sn	118	74				ug/L
Sb	121	41				ug/L
[Ba	135	36				ug/L
[> Tb	159	913588				ug/L
Tl	205	92				ug/L
Pb	208	358				ug/L
Bi	209	529866				ug/L

Sample ID: ICIS-1540064

Report Date/Time: Friday, September 13, 2013 11:34:56

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6					
	Li	7					
[	Be	9					
[>	Sc	45					
	V	51					
	Cr	52					
[	Mn	55					
[	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72					
	As	75					
	Br	79					
	Se	82					
	Kr	82					
[	Kr	83					
[	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89					
[	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115					
	Sn	118					
[	Sb	121					
[	Ba	135					
[>	Tb	159					
	Tl	205					
[	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: ICIS-1540064

Report Date/Time: Friday, September 13, 2013 11:34:56

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ICP-MS Report

Sample ID: IC-1582169

Sample Date/Time: Thursday, September 12, 2013 13:31:28

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	264496				ug/L
Li	7	33566	10.3113	0.0375	0.36	ug/L
[Be	9	4755	10.2990	0.2449	2.38	ug/L
[> Sc	45	199685				ug/L
V	51	39258	10.1056	0.1028	1.02	ug/L
Cr	52	34885	9.8628	0.1782	1.81	ug/L
[Mn	55	54665	9.8912	0.2683	2.71	ug/L
[Co	59	34736	9.9246	0.1595	1.61	ug/L
Ni	60	7214	10.1421	0.0342	0.34	ug/L
Cu	63	15899	9.9499	0.2242	2.25	ug/L
Zn	66	5183	9.8527	0.0777	0.79	ug/L
[> Ge	72	123504				ug/L
As	75	5732	9.7668	0.0386	0.40	ug/L
Br	79	1079				ug/L
Se	82	534	9.7161	0.3759	3.87	ug/L
Kr	82	91				ug/L
[Kr	83	68				ug/L
[Kr	84	301				ug/L
Kr	86	6849				ug/L
Sr	88	65878	10.1863	0.1473	1.45	ug/L
[> Y	89	804481				ug/L
[Mo	98	16986	10.1564	0.1333	1.31	ug/L
Ag	107	23585	9.9497	0.2206	2.22	ug/L
Cd	111	6502	9.8851	0.1965	1.99	ug/L
[> In	115	369374				ug/L
Sn	118	17563	9.9405	0.1555	1.56	ug/L
[Sb	121	22083	9.8492	0.2262	2.30	ug/L
[Ba	135	5266	10.1288	0.0873	0.86	ug/L
[> Tb	159	904238				ug/L
Tl	205	45819	10.1841	0.1598	1.57	ug/L
[Pb	208	63059	10.0171	0.0872	0.87	ug/L
Bi	209	520792				ug/L

Sample ID: IC-1582169

Report Date/Time: Friday, September 13, 2013 11:34:57

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6					
	Li	7					
[	Be	9					
[>	Sc	45					
	V	51					
	Cr	52					
[	Mn	55					
[	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	72					
	As	75					
	Br	79					
	Se	82					
	Kr	82					
[	Kr	83					
[	Kr	84					
	Kr	86					
	Sr	88					
>	Y	89					
[	Mo	98					
	Ag	107					
	Cd	111					
>	In	115					
	Sn	118					
[	Sb	121					
[	Ba	135					
>	Tb	159					
	Tl	205					
[	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: IC-1582169

Report Date/Time: Friday, September 13, 2013 11:34:57

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ICP-MS Report

Sample ID: IC-1582170

Sample Date/Time: Thursday, September 12, 2013 13:36:59

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	261001				ug/L
Li	7	59969	25.2260	1.3417	5.32	ug/L
Be	9	11398	25.0907	0.9027	3.60	ug/L
[> Sc	45	196720				ug/L
V	51	94090	24.9116	0.2932	1.18	ug/L
Cr	52	79573	24.0610	0.4856	2.02	ug/L
Mn	55	124497	24.3188	1.0686	4.39	ug/L
[Co	59	85204	25.0788	0.2500	1.00	ug/L
Ni	60	17459	25.3453	0.5340	2.11	ug/L
Cu	63	38353	24.9558	0.4987	2.00	ug/L
Zn	66	12711	25.2623	0.3520	1.39	ug/L
[> Ge	72	120076				ug/L
As	75	14165	25.1333	0.1401	0.56	ug/L
Br	79	1017				ug/L
Se	82	1293	24.1744	0.3351	1.39	ug/L
Kr	82	163				ug/L
Kr	83	68				ug/L
[Kr	84	259				ug/L
Kr	86	16672				ug/L
Sr	88	160377	25.3856	0.2546	1.00	ug/L
[> Y	89	789767				ug/L
[Mo	98	40692	24.5221	0.3007	1.23	ug/L
Ag	107	57796	24.5936	0.1824	0.74	ug/L
Cd	111	15541	24.8464	0.5785	2.33	ug/L
[> In	115	366819				ug/L
Sn	118	42939	24.5376	0.4878	1.99	ug/L
Sb	121	54198	24.3656	0.0945	0.39	ug/L
[Ba	135	12519	24.1062	0.3348	1.39	ug/L
[> Tb	159	907102				ug/L
Tl	205	111571	24.7489	0.2127	0.86	ug/L
Pb	208	153609	24.3989	0.2871	1.18	ug/L
Bi	209	516071				ug/L

Sample ID: IC-1582170

Report Date/Time: Friday, September 13, 2013 11:34:59

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6					
	Li	7					
[	Be	9					
[>	Sc	45					
	V	51					
	Cr	52					
[	Mn	55					
[	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72					
	As	75					
	Br	79					
	Se	82					
	Kr	82					
[	Kr	83					
[	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89					
[	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115					
	Sn	118					
[	Sb	121					
[	Ba	135					
[>	Tb	159					
	Tl	205					
[	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: IC-1582170

Report Date/Time: Friday, September 13, 2013 11:34:59

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ICP-MS Report

Sample ID: IC-1582171

Sample Date/Time: Thursday, September 12, 2013 13:42:31

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

	Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[>	Li-6	6	259574				ug/L
	Li	7	103760	49.8248	1.2274	2.46	ug/L
	Be	9	22535	49.8948	1.5996	3.21	ug/L
[>	Sc	45	186781				ug/L
	V	51	178615	50.0231	1.0442	2.09	ug/L
	Cr	52	155501	50.4969	1.0234	2.03	ug/L
	Mn	55	239423	50.3623	0.5801	1.15	ug/L
[	Co	59	164002	49.9757	1.2766	2.55	ug/L
	Ni	60	33116	49.7989	0.7666	1.54	ug/L
	Cu	63	74057	50.0321	0.5666	1.13	ug/L
	Zn	66	24143	49.8983	0.5446	1.09	ug/L
>	Ge	72	116060				ug/L
	As	75	27114	49.9800	0.8096	1.62	ug/L
	Br	79	1027				ug/L
	Se	82	2611	50.4695	1.3575	2.69	ug/L
	Kr	82	352				ug/L
	Kr	83	68				ug/L
[	Kr	84	225				ug/L
	Kr	86	32793				ug/L
	Sr	88	309260	49.7699	0.3867	0.78	ug/L
>	Y	89	778233				ug/L
[	Mo	98	79775	50.2077	0.6410	1.28	ug/L
	Ag	107	113010	50.2133	0.4656	0.93	ug/L
	Cd	111	29595	50.0998	0.4715	0.94	ug/L
>	In	115	351483				ug/L
	Sn	118	84153	50.2431	0.4017	0.80	ug/L
	Sb	121	107257	50.3473	0.2380	0.47	ug/L
[	Ba	135	24798	50.4212	0.2823	0.56	ug/L
>	Tb	159	860199				ug/L
	Tl	205	214012	50.0887	0.4899	0.98	ug/L
	Pb	208	299899	50.2971	0.7258	1.44	ug/L
	Bi	209	500904				ug/L

Sample ID: IC-1582171

Report Date/Time: Friday, September 13, 2013 11:35:00

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6					
	Li	7					
[	Be	9					
[>	Sc	45					
	V	51					
	Cr	52					
[	Mn	55					
[	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	72					
	As	75					
	Br	79					
	Se	82					
	Kr	82					
[	Kr	83					
[	Kr	84					
	Kr	86					
	Sr	88					
>	Y	89					
[	Mo	98					
	Ag	107					
	Cd	111					
>	In	115					
	Sn	118					
[	Sb	121					
[	Ba	135					
>	Tb	159					
	Tl	205					
[	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: IC-1582171

Report Date/Time: Friday, September 13, 2013 11:35:00

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ICP-MS Report

Sample ID: ICV-1595811

Sample Date/Time: Thursday, September 12, 2013 13:50:05

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	262328				ug/L
Li	7	60262	25.2119	0.4260	1.69	ug/L
Be	9	11508	25.2234	1.0281	4.08	ug/L
[> Sc	45	192286				ug/L
V	51	90518	24.5139	0.3307	1.35	ug/L
Cr	52	80658	24.9778	0.3091	1.24	ug/L
Mn	55	126662	25.3430	0.6015	2.37	ug/L
[Co	59	82846	24.7946	0.4747	1.91	ug/L
Ni	60	17241	25.4483	0.4913	1.93	ug/L
Cu	63	37765	24.9864	0.5017	2.01	ug/L
Zn	66	12522	25.3018	0.3062	1.21	ug/L
[> Ge	72	118118				ug/L
As	75	14141	25.5152	0.3622	1.42	ug/L
Br	79	1090				ug/L
Se	82	1372	26.0736	1.4454	5.54	ug/L
Kr	82	189				ug/L
Kr	83	75				ug/L
[Kr	84	231				ug/L
Kr	86	15749				ug/L
Sr	88	152809	24.7648	0.2096	0.85	ug/L
[> Y	89	771361				ug/L
[Mo	98	39890	24.6544	0.3312	1.34	ug/L
Ag	107	56875	24.8105	0.0575	0.23	ug/L
Cd	111	15135	24.8007	0.1823	0.73	ug/L
[> In	115	357784				ug/L
Sn	118	43033	25.2221	0.3913	1.55	ug/L
Sb	121	57407	26.4637	0.4004	1.51	ug/L
[Ba	135	12538	24.9121	0.3744	1.50	ug/L
[> Tb	159	879154				ug/L
Tl	205	111063	25.4164	0.4327	1.70	ug/L
Pb	208	152425	24.9864	0.0470	0.19	ug/L
Bi	209	510419				ug/L

Sample ID: ICV-1595811

Report Date/Time: Friday, September 13, 2013 11:35:01

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		98.771			
	Li	7	100.848				
	Be	9	100.894				
[>	Sc	45		96.515			
	V	51	98.056				
	Cr	52	99.911				
	Mn	55	101.372				
	Co	59	99.179				
	Ni	60	101.793				
	Cu	63	99.946				
	Zn	66	101.207				
[>	Ge	72		94.560			
	As	75	102.061				
	Br	79					
	Se	82	104.295				
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88	99.059				
[>	Y	89		95.707			
	Mo	98	98.617				
	Ag	107	99.242				
	Cd	111	99.203				
[>	In	115		96.522			
	Sn	118	100.889				
	Sb	121	105.855				
	Ba	135	99.648				
[>	Tb	159		96.231			
	Tl	205	101.666				
	Pb	208	99.946				
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: ICV-1595811

Report Date/Time: Friday, September 13, 2013 11:35:01

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ICP-MS Report

Sample ID: ICB-1540064

Sample Date/Time: Thursday, September 12, 2013 13:56:36

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	253886				ug/L
Li	7	14003	-0.0742	0.1358	182.87	ug/L
Be	9	15	0.0037	0.0121	323.99	ug/L
[> Sc	45	190111				ug/L
V	51	939	0.0314	0.0207	66.12	ug/L
Cr	52	2836	-0.0060	0.0247	412.58	ug/L
Mn	55	5430	0.0441	0.0223	50.51	ug/L
[Co	59	129	0.0118	0.0169	144.05	ug/L
Ni	60	51	0.0110	0.0181	165.37	ug/L
Cu	63	292	0.0160	0.0164	102.40	ug/L
Zn	66	143	0.0212	0.0204	96.16	ug/L
[> Ge	72	119134				ug/L
As	75	122	0.0203	0.0250	122.98	ug/L
Br	79	1019				ug/L
Se	82	5	0.1137	0.0718	63.15	ug/L
Kr	82	37				ug/L
Kr	83	70				ug/L
[Kr	84	317				ug/L
Kr	86	165				ug/L
Sr	88	596	0.0112	0.0196	174.67	ug/L
[> Y	89	776876				ug/L
[Mo	98	66	0.0181	0.0209	115.20	ug/L
Ag	107	94	0.0130	0.0166	127.80	ug/L
Cd	111	443	-0.0016	0.0465	2867.51	ug/L
[> In	115	357074				ug/L
Sn	118	106	0.0200	0.0216	107.96	ug/L
Sb	121	293	0.1167	0.0246	21.05	ug/L
[Ba	135	42	0.0134	0.0140	104.69	ug/L
[> Tb	159	881186				ug/L
Tl	205	153	0.0145	0.0215	148.69	ug/L
Pb	208	424	0.0126	0.0192	152.18	ug/L
Bi	209	507664				ug/L

Sample ID: ICB-1540064

Report Date/Time: Friday, September 13, 2013 11:35:03

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		95.593			
	Li	7					
	Be	9					
[>	Sc	45		95.423			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		95.373			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		96.391			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		96.331			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		96.453			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: ICB-1540064

Report Date/Time: Friday, September 13, 2013 11:35:03

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ICP-MS Report

Sample ID: CRI-1582166

Sample Date/Time: Thursday, September 12, 2013 14:02:07

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	252792				ug/L
Li	7	15693	0.9268	0.2068	22.31	ug/L
Be	9	333	0.7271	0.0624	8.58	ug/L
[> Sc	45	184274				ug/L
V	51	6267	1.5590	0.0123	0.79	ug/L
Cr	52	7708	1.6559	0.0205	1.24	ug/L
Mn	55	10439	1.1721	0.0586	5.00	ug/L
[Cr	59	1137	0.3194	0.0069	2.16	ug/L
Ni	60	1554	2.2718	0.0231	1.02	ug/L
Cu	63	1953	1.1447	0.0340	2.97	ug/L
Zn	66	5782	11.7274	0.1851	1.58	ug/L
[> Ge	72	116245				ug/L
As	75	667	1.0317	0.0522	5.06	ug/L
Br	79	1036				ug/L
Se	82	49	0.9678	0.3417	35.31	ug/L
Kr	82	45				ug/L
Kr	83	65				ug/L
[Kr	84	320				ug/L
Kr	86	755				ug/L
Sr	88	6290	0.9344	0.0091	0.98	ug/L
[> Y	89	774249				ug/L
[Mo	98	1675	1.0248	0.0645	6.29	ug/L
Ag	107	1167	0.4870	0.0218	4.48	ug/L
Cd	111	727	0.4891	0.0345	7.06	ug/L
[> In	115	354354				ug/L
Sn	118	3642	2.1184	0.0768	3.63	ug/L
Sb	121	2572	1.1800	0.0164	1.39	ug/L
[Ba	135	546	1.0320	0.0300	2.91	ug/L
[> Tb	159	867576				ug/L
Tl	205	971	0.2052	0.0090	4.40	ug/L
Pb	208	6704	1.0595	0.0225	2.12	ug/L
Bi	209	502954				ug/L

Sample ID: CRI-1582166

Report Date/Time: Friday, September 13, 2013 11:35:04

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		95.181			
	Li	7	92.677				
	Be	9	103.867				
[>	Sc	45		92.494			
	V	51	103.932				
	Cr	52	110.396				
	Mn	55	117.213				
	Co	59	106.478				
	Ni	60	227.175				
	Cu	63	114.473				
	Zn	66	117.274				
[>	Ge	72		93.060			
	As	75	103.169				
	Br	79					
	Se	82	96.777				
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88	116.794				
[>	Y	89		96.065			
	Mo	98	102.481				
	Ag	107	97.401				
	Cd	111	97.823				
[>	In	115		95.597			
	Sn	118	105.919				
	Sb	121	118.001				
	Ba	135	103.195				
[>	Tb	159		94.964			
	Tl	205	102.581				
	Pb	208	105.950				
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 3	Ni	60	CRI is out of limits (+/- 50%)

ICP-MS Report

Sample ID: ICSA-1582167

Sample Date/Time: Thursday, September 12, 2013 14:07:39

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	232564				ug/L
Li	7	12946	-0.0012	0.0721	6032.73	ug/L
Be	9	10	-0.0045	0.0056	126.62	ug/L
[> Sc	45	169792				ug/L
V	51	742	-0.0005	0.1075	20492.67	ug/L
Cr	52	4357	0.6573	0.0091	1.38	ug/L
Mn	55	9432	1.1281	0.0535	4.74	ug/L
[Co	59	2534	0.7687	0.0198	2.58	ug/L
Ni	60	1892	2.8687	0.0641	2.23	ug/L
Cu	63	2464	1.5419	0.0302	1.96	ug/L
Zn	66	2122	4.2704	0.0239	0.56	ug/L
[> Ge	72	112772				ug/L
As	75	216	0.2105	0.0819	38.93	ug/L
Br	79	3099				ug/L
Se	82	-24	-0.4522	0.1171	25.89	ug/L
Kr	82	-153				ug/L
Kr	83	98				ug/L
[Kr	84	284				ug/L
Kr	86	457				ug/L
Sr	88	2451	0.3492	0.0123	3.53	ug/L
[> Y	89	708378				ug/L
[Mo	98	1362963	926.3908	14.7598	1.59	ug/L
Ag	107	120	0.0296	0.0042	14.14	ug/L
Cd	111	649	0.4531	0.0528	11.65	ug/L
[> In	115	325695				ug/L
Sn	118	170	0.0675	0.0064	9.49	ug/L
Sb	121	633	0.3025	0.0199	6.57	ug/L
[Ba	135	1738	3.6510	0.0887	2.43	ug/L
[> Tb	159	817868				ug/L
Tl	205	94	0.0030	0.0019	63.01	ug/L
Pb	208	1089	0.1357	0.0015	1.11	ug/L
Bi	209	464141				ug/L

Sample ID: ICSA-1582167

Report Date/Time: Friday, September 13, 2013 11:35:05

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		87.565			
	Li	7					
	Be	9					
[>	Sc	45		85.225			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		90.280			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		87.892			
	Mo	98	92.639				
	Ag	107					
	Cd	111					
[>	In	115		87.865			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		89.523			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: ICSA-1582167

Report Date/Time: Friday, September 13, 2013 11:35:05

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ICP-MS Report

Sample ID: ICSAB-1582168

Sample Date/Time: Thursday, September 12, 2013 14:14:11

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	233294				ug/L
Li	7	13066	0.0475	0.0384	80.83	ug/L
Be	9	8	-0.0091	0.0059	64.62	ug/L
[> Sc	45	172158				ug/L
V	51	69086	20.8623	0.6369	3.05	ug/L
Cr	52	32353	10.6788	0.2239	2.10	ug/L
Mn	55	51753	10.9663	0.2963	2.70	ug/L
[Cr	59	60008	18.9233	0.3768	1.99	ug/L
Ni	60	13618	21.1745	0.2571	1.21	ug/L
Cu	63	15039	10.3846	0.2228	2.15	ug/L
Zn	66	6284	13.2573	0.2488	1.88	ug/L
[> Ge	72	112036				ug/L
As	75	5186	9.7397	0.2161	2.22	ug/L
Br	79	4621				ug/L
Se	82	441	8.8459	0.4292	4.85	ug/L
Kr	82	-86				ug/L
Kr	83	103				ug/L
[Kr	84	283				ug/L
Kr	86	504				ug/L
Sr	88	2460	0.3514	0.0065	1.84	ug/L
[> Y	89	707255				ug/L
[Mo	98	1351080	929.7863	5.9206	0.64	ug/L
Ag	107	20170	9.7731	0.0776	0.79	ug/L
Cd	111	3200	5.2589	0.1837	3.49	ug/L
[> In	115	321555				ug/L
Sn	118	163	0.0648	0.0004	0.56	ug/L
Sb	121	1134	0.5638	0.0131	2.32	ug/L
[Ba	135	1684	3.5185	0.1063	3.02	ug/L
[> Tb	159	822067				ug/L
Tl	205	386	0.0743	0.0045	6.10	ug/L
Pb	208	1407	0.1907	0.0052	2.73	ug/L
Bi	209	468113				ug/L

Sample ID: ICSAB-1582168

Report Date/Time: Friday, September 13, 2013 11:35:07

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		87.840			
	Li	7					
	Be	9					
[>	Sc	45		86.412			
	V	51	104.312				
	Cr	52	106.788				
	Mn	55	99.694				
	Co	59	94.616				
	Ni	60	105.873				
	Cu	63	103.846				
	Zn	66	106.059				
[>	Ge	72		89.691			
	As	75	97.397				
	Br	79					
	Se	82	88.459				
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		87.753			
	Mo	98	92.979				
	Ag	107	97.731				
	Cd	111	105.179				
[>	In	115		86.748			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		89.982			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: ICSAB-1582168

Report Date/Time: Friday, September 13, 2013 11:35:07

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ICP-MS Report

Sample ID: CCV-1582170

Sample Date/Time: Thursday, September 12, 2013 14:20:44

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	243227				ug/L
Li	7	56452	25.5436	0.2742	1.07	ug/L
Be	9	10730	25.3290	0.3168	1.25	ug/L
[> Sc	45	174457				ug/L
V	51	83951	25.0644	0.4098	1.64	ug/L
Cr	52	73672	25.1527	0.0908	0.36	ug/L
Mn	55	115864	25.5697	0.8009	3.13	ug/L
[Cr	59	78124	25.1233	0.3606	1.44	ug/L
Ni	60	16156	25.6211	0.4062	1.59	ug/L
Cu	63	35580	25.2926	0.6057	2.39	ug/L
Zn	66	11616	25.2206	0.3222	1.28	ug/L
[> Ge	72	109900				ug/L
As	75	13071	25.3448	0.5838	2.30	ug/L
Br	79	1113				ug/L
Se	82	1214	24.8053	0.8655	3.49	ug/L
Kr	82	152				ug/L
Kr	83	60				ug/L
[Kr	84	226				ug/L
Kr	86	15489				ug/L
Sr	88	148157	25.2627	0.7130	2.82	ug/L
[> Y	89	733510				ug/L
[Mo	98	39916	26.0859	0.7973	3.06	ug/L
Ag	107	53612	24.7259	0.2656	1.07	ug/L
Cd	111	14358	24.8714	0.3606	1.45	ug/L
[> In	115	338431				ug/L
Sn	118	40529	25.1073	0.0946	0.38	ug/L
Sb	121	52317	25.4949	0.1695	0.66	ug/L
[Ba	135	12069	24.5970	0.4023	1.64	ug/L
[> Tb	159	857018				ug/L
Tl	205	110580	25.9692	0.2426	0.93	ug/L
Pb	208	151920	25.5533	0.6313	2.47	ug/L
Bi	209	504709				ug/L

Sample ID: CCV-1582170

Report Date/Time: Friday, September 13, 2013 11:35:08

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		91.580			
	Li	7	102.175				
	Be	9	101.316				
[>	Sc	45		87.566			
	V	51	100.258				
	Cr	52	100.611				
	Mn	55	102.279				
	Co	59	100.493				
	Ni	60	102.485				
	Cu	63	101.170				
	Zn	66	100.883				
[>	Ge	72		87.981			
	As	75	101.379				
	Br	79					
	Se	82	99.221				
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88	101.051				
[>	Y	89		91.010			
	Mo	98	104.344				
	Ag	107	98.903				
	Cd	111	99.486				
[>	In	115		91.301			
	Sn	118	100.429				
	Sb	121	101.979				
	Ba	135	98.388				
[>	Tb	159		93.808			
	Tl	205	103.877				
	Pb	208	102.213				
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCV-1582170

Report Date/Time: Friday, September 13, 2013 11:35:08

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ICP-MS Report

Sample ID: CCB-1540064

Sample Date/Time: Thursday, September 12, 2013 14:27:19

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	246830				ug/L
Li	7	13602	-0.0803	0.2550	317.71	ug/L
Be	9	10	-0.0065	0.0040	61.59	ug/L
[> Sc	45	181776				ug/L
V	51	799	0.0020	0.0383	1882.09	ug/L
Cr	52	2552	-0.0602	0.0057	9.46	ug/L
Mn	55	5177	0.0405	0.0188	46.39	ug/L
[Co	59	131	0.0144	0.0194	135.09	ug/L
Ni	60	60	0.0278	0.0253	90.98	ug/L
Cu	63	296	0.0270	0.0311	115.17	ug/L
Zn	66	116	-0.0223	0.0143	64.25	ug/L
[> Ge	72	113984				ug/L
As	75	129	0.0434	0.0337	77.71	ug/L
Br	79	1037				ug/L
Se	82	17	0.3699	0.0862	23.29	ug/L
Kr	82	42				ug/L
Kr	83	65				ug/L
[Kr	84	300				ug/L
Kr	86	149				ug/L
Sr	88	519	0.0017	0.0050	295.27	ug/L
[> Y	89	753238				ug/L
[Mo	98	1251	0.7522	0.7669	101.96	ug/L
Ag	107	90	0.0115	0.0153	133.15	ug/L
Cd	111	387	-0.0955	0.0391	40.94	ug/L
[> In	115	356880				ug/L
Sn	118	76	0.0025	0.0056	220.97	ug/L
Sb	121	340	0.1390	0.0329	23.66	ug/L
[Ba	135	37	0.0030	0.0103	347.90	ug/L
[> Tb	159	885474				ug/L
Tl	205	100	0.0025	0.0085	336.72	ug/L
Pb	208	340	-0.0011	0.0054	494.26	ug/L
Bi	209	510165				ug/L

Sample ID: CCB-1540064

Report Date/Time: Friday, September 13, 2013 11:35:09

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		92.936			
	Li	7					
	Be	9					
[>	Sc	45		91.239			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		91.250			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		93.458			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		96.278			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		96.923			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCB-1540064

Report Date/Time: Friday, September 13, 2013 11:35:09

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ICP-MS Report

Sample ID: MB 480-138383/1-A

Sample Date/Time: Thursday, September 12, 2013 14:32:55

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	248217				ug/L
Li	7	14001	0.1050	0.2186	208.12	ug/L
Be	9	8	-0.0118	0.0035	29.41	ug/L
[> Sc	45	187468				ug/L
V	51	829	0.0041	0.0151	367.31	ug/L
Cr	52	2832	0.0059	0.0244	412.97	ug/L
Mn	55	2167	-0.6381	0.0194	3.05	ug/L
Co	59	66	-0.0062	0.0052	84.81	ug/L
Ni	60	82	0.0601	0.0025	4.21	ug/L
Cu	63	368	0.0729	0.0072	9.95	ug/L
Zn	66	856	1.5139	0.0663	4.38	ug/L
[> Ge	72	115787				ug/L
As	75	116	0.0144	0.0530	366.83	ug/L
Br	79	1116				ug/L
Se	82	-2	-0.0173	0.2717	1568.57	ug/L
Kr	82	39				ug/L
Kr	83	69				ug/L
Kr	84	293				ug/L
Kr	86	212				ug/L
Sr	88	1191	0.1100	0.0027	2.48	ug/L
[> Y	89	767273				ug/L
Mo	98	533	0.3076	0.1368	44.49	ug/L
Ag	107	97	0.0143	0.0028	19.71	ug/L
Cd	111	393	-0.0836	0.0261	31.25	ug/L
[> In	115	356626				ug/L
Sn	118	94	0.0133	0.0014	10.49	ug/L
Sb	121	255	0.0995	0.0087	8.74	ug/L
Ba	135	54	0.0362	0.0063	17.29	ug/L
[> Tb	159	895315				ug/L
Tl	205	30	-0.0136	0.0017	12.63	ug/L
Pb	208	261	-0.0145	0.0027	18.78	ug/L
Bi	209	514178				ug/L

Sample ID: MB 480-138383/1-A

Report Date/Time: Friday, September 13, 2013 11:35:11

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		93.459			
	Li	7					
	Be	9					
[>	Sc	45		94.097			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		92.694			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		95.200			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		96.210			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		98.000			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: LCS 480-138383/2-A

Sample Date/Time: Thursday, September 12, 2013 14:38:26

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	253805				ug/L
Li	7	50717	20.8733	0.3179	1.52	ug/L
Be	9	9120	20.6237	0.0456	0.22	ug/L
[> Sc	45	189834				ug/L
V	51	77844	21.3249	0.1205	0.57	ug/L
Cr	52	67637	21.0851	0.3159	1.50	ug/L
Mn	55	97947	19.6290	0.8578	4.37	ug/L
[Co	59	69483	21.2483	0.5115	2.41	ug/L
Ni	60	13879	20.9267	0.2817	1.35	ug/L
Cu	63	31167	21.0482	0.3657	1.74	ug/L
Zn	66	25852	53.6966	1.0133	1.89	ug/L
[> Ge	72	115555				ug/L
As	75	11153	20.5278	0.1367	0.67	ug/L
Br	79	1092				ug/L
Se	82	1066	20.7093	0.1408	0.68	ug/L
Kr	82	129				ug/L
Kr	83	70				ug/L
[Kr	84	233				ug/L
Kr	86	13142				ug/L
Sr	88	127481	20.8878	0.3679	1.76	ug/L
[> Y	89	762457				ug/L
[Mo	98	32704	20.6454	0.3515	1.70	ug/L
Ag	107	46675	20.7998	0.4360	2.10	ug/L
Cd	111	12066	20.0662	0.5958	2.97	ug/L
[> In	115	350308				ug/L
Sn	118	34337	20.5523	0.4354	2.12	ug/L
Sb	121	45044	21.2147	0.4674	2.20	ug/L
[Ba	135	10174	20.0589	0.1372	0.68	ug/L
[> Tb	159	885291				ug/L
Tl	205	91906	20.8889	0.0339	0.16	ug/L
Pb	208	124345	20.2312	0.1172	0.58	ug/L
Bi	209	505909				ug/L

Sample ID: LCS 480-138383/2-A

Report Date/Time: Friday, September 13, 2013 11:35:12

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		95.562			
	Li	7					
	Be	9					
[>	Sc	45		95.284			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		92.508			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		94.602			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		94.505			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		96.903			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: LCS 480-138383/2-A

Report Date/Time: Friday, September 13, 2013 11:35:12

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ICP-MS Report

Sample ID: LCSD 480-138383/3-A

Sample Date/Time: Thursday, September 12, 2013 14:43:54

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	253091				ug/L
Li	7	51144	21.1965	0.6852	3.23	ug/L
Be	9	9032	20.4859	0.2752	1.34	ug/L
[> Sc	45	186645				ug/L
V	51	76435	21.2930	0.3185	1.50	ug/L
Cr	52	66517	21.0830	0.4137	1.96	ug/L
Mn	55	96765	19.7109	0.3870	1.96	ug/L
[Co	59	68874	20.9973	0.7828	3.73	ug/L
Ni	60	13871	20.8476	0.7284	3.49	ug/L
Cu	63	31514	21.2150	0.2240	1.06	ug/L
Zn	66	25408	52.5970	0.5019	0.95	ug/L
[> Ge	72	115913				ug/L
As	75	11139	20.4392	0.2619	1.28	ug/L
Br	79	1059				ug/L
Se	82	1020	19.7568	1.1861	6.00	ug/L
Kr	82	147				ug/L
Kr	83	60				ug/L
[Kr	84	273				ug/L
Kr	86	13278				ug/L
Sr	88	125721	20.4319	0.4209	2.06	ug/L
[> Y	89	768851				ug/L
[Mo	98	32416	20.4266	0.0751	0.37	ug/L
Ag	107	47341	21.0618	0.1319	0.63	ug/L
Cd	111	12167	20.1986	0.0980	0.49	ug/L
[> In	115	350782				ug/L
Sn	118	33949	20.2852	0.1524	0.75	ug/L
Sb	121	45168	21.2355	0.1421	0.67	ug/L
[Ba	135	10183	20.1471	0.5411	2.69	ug/L
[> Tb	159	882073				ug/L
Tl	205	91310	20.8292	0.1157	0.56	ug/L
Pb	208	124506	20.3308	0.2101	1.03	ug/L
Bi	209	511371				ug/L

Sample ID: LCSD 480-138383/3-A

Report Date/Time: Friday, September 13, 2013 11:35:14

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		95.294			
	Li	7					
	Be	9					
[>	Sc	45		93.684			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		92.795			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		95.395			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		94.633			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		96.550			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: 480-45191-M-1-B

Sample Date/Time: Thursday, September 12, 2013 14:49:22

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	250172				ug/L
Li	7	15564	0.9465	0.1275	13.47	ug/L
Be	9	17	0.0095	0.0197	208.04	ug/L
[> Sc	45	185119				ug/L
V	51	1285	0.1360	0.0481	35.35	ug/L
Cr	52	3434	0.2182	0.0126	5.76	ug/L
Mn	55	10714	1.2208	0.0325	2.66	ug/L
[Cr	59	280	0.0613	0.0164	26.80	ug/L
Ni	60	737	1.0812	0.0157	1.45	ug/L
Cu	63	836	0.4060	0.0832	20.49	ug/L
Zn	66	1724	3.4300	0.0487	1.42	ug/L
[> Ge	72	112475				ug/L
As	75	337	0.4421	0.0438	9.92	ug/L
Br	79	3110				ug/L
Se	82	16	0.3391	0.2105	62.08	ug/L
Kr	82	29				ug/L
Kr	83	62				ug/L
[Kr	84	77				ug/L
Kr	86	46122				ug/L
Sr	88	438768	73.5039	0.4616	0.63	ug/L
[> Y	89	747963				ug/L
[Mo	98	238	0.1289	0.0265	20.58	ug/L
Ag	107	152	0.0400	0.0240	59.89	ug/L
Cd	111	410	-0.0343	0.0239	69.68	ug/L
[> In	115	345434				ug/L
Sn	118	163	0.0569	0.0208	36.52	ug/L
Sb	121	876	0.3983	0.0945	23.72	ug/L
[Ba	135	17315	34.8211	0.3845	1.10	ug/L
[> Tb	159	869125				ug/L
Tl	205	141	0.0122	0.0251	204.71	ug/L
Pb	208	386	0.0073	0.0222	302.44	ug/L
Bi	209	488195				ug/L

Sample ID: 480-45191-M-1-B

Report Date/Time: Friday, September 13, 2013 11:35:15

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		94.195			
	Li	7					
	Be	9					
[>	Sc	45		92.918			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		90.042			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		92.804			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		93.190			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		95.133			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: rinse

Sample Date/Time: Thursday, September 12, 2013 14:54:50

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	241008				ug/L
Li	7	13855	0.2647	0.1327	50.14	ug/L
[Be	9	9	-0.0081	0.0102	126.54	ug/L
[> Sc	45	183234				ug/L
V	51	950	0.0442	0.0407	92.00	ug/L
Cr	52	3353	0.2025	0.0290	14.33	ug/L
[Mn	55	6614	0.3467	0.0482	13.92	ug/L
[Co	59	66	-0.0055	0.0027	49.23	ug/L
Ni	60	220	0.2780	0.0271	9.76	ug/L
Cu	63	393	0.0982	0.0082	8.39	ug/L
Zn	66	1733	3.4536	0.6886	19.94	ug/L
[> Ge	72	112242				ug/L
As	75	133	0.0547	0.0783	143.09	ug/L
Br	79	1091				ug/L
Se	82	-0	0.0271	0.1286	474.76	ug/L
Kr	82	43				ug/L
[Kr	83	62				ug/L
[Kr	84	292				ug/L
Kr	86	262				ug/L
Sr	88	1536	0.1692	0.0845	49.93	ug/L
[> Y	89	756704				ug/L
[Mo	98	39	0.0014	0.0049	340.48	ug/L
Ag	107	62	-0.0006	0.0010	177.88	ug/L
Cd	111	420	-0.0287	0.0134	46.84	ug/L
[> In	115	351700				ug/L
Sn	118	166	0.0574	0.0142	24.72	ug/L
[Sb	121	239	0.0940	0.0038	4.06	ug/L
[Ba	135	82	0.0972	0.0398	40.96	ug/L
[> Tb	159	864835				ug/L
Tl	205	32	-0.0128	0.0023	17.75	ug/L
[Pb	208	437	0.0164	0.0057	34.68	ug/L
Bi	209	495523				ug/L

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:35:16

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		90.744			
	Li	7					
	Be	9					
[>	Sc	45		91.972			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		89.856			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		93.888			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		94.881			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		94.664			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:35:16

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ICP-MS Report

Sample ID: 480-45284-A-1-B

Sample Date/Time: Thursday, September 12, 2013 15:00:19

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	259617				ug/L
Li	7	34101	10.9586	0.4963	4.53	ug/L
Be	9	11	-0.0052	0.0084	162.53	ug/L
[> Sc	45	207709				ug/L
V	51	4548	0.9221	0.0641	6.95	ug/L
Cr	52	6500	1.0058	0.0806	8.01	ug/L
Mn	55	3624849	699.5677	15.9435	2.28	ug/L
[Cr	59	1387	0.3985	0.0219	5.48	ug/L
Ni	60	4495	6.7358	0.0980	1.45	ug/L
Cu	63	2218	1.3335	0.0273	2.05	ug/L
Zn	66	3622	7.2950	0.1845	2.53	ug/L
[> Ge	72	115516				ug/L
As	75	3886	7.0236	0.0365	0.52	ug/L
Br	79	14565				ug/L
Se	82	9	0.2041	0.1626	79.67	ug/L
Kr	82	-44				ug/L
Kr	83	66				ug/L
[Kr	84	-4460				ug/L
Kr	86	387854				ug/L
Sr	88	4352310	711.2485	13.1268	1.85	ug/L
[> Y	89	767655				ug/L
[Mo	98	265	0.1482	0.0156	10.54	ug/L
Ag	107	156	0.0431	0.0047	10.82	ug/L
Cd	111	418	-0.0141	0.0396	279.88	ug/L
[> In	115	343296				ug/L
Sn	118	1213	0.7000	0.0083	1.18	ug/L
Sb	121	345	0.1478	0.0122	8.24	ug/L
[Ba	135	4157	8.3700	0.1022	1.22	ug/L
[> Tb	159	862668				ug/L
Tl	205	21	-0.0154	0.0003	2.24	ug/L
Pb	208	3069	0.4573	0.0027	0.58	ug/L
Bi	209	470033				ug/L

Sample ID: 480-45284-A-1-B

Report Date/Time: Friday, September 13, 2013 11:35:18

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		97.751			
	Li	7					
	Be	9					
[>	Sc	45		104.256			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	72		92.476			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
>	Y	89		95.247			
	Mo	98					
	Ag	107					
	Cd	111					
>	In	115		92.614			
	Sn	118					
	Sb	121					
	Ba	135					
>	Tb	159		94.426			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 480-45284-A-1-B

Report Date/Time: Friday, September 13, 2013 11:35:18

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ICP-MS Report

Sample ID: rinse

Sample Date/Time: Thursday, September 12, 2013 15:06:49

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	265287				ug/L
Li	7	15001	0.1263	0.1359	107.59	ug/L
Be	9	9	-0.0109	0.0056	51.63	ug/L
[> Sc	45	195009				ug/L
V	51	1276	0.1155	0.0123	10.64	ug/L
Cr	52	4073	0.3626	0.0295	8.14	ug/L
Mn	55	8725	0.7007	0.4313	61.55	ug/L
[Cr	59	50	-0.0112	0.0010	8.91	ug/L
Ni	60	141	0.1487	0.0167	11.24	ug/L
Cu	63	363	0.0694	0.0055	7.95	ug/L
Zn	66	641	1.0633	0.1131	10.64	ug/L
[> Ge	72	115988				ug/L
As	75	110	0.0024	0.0121	493.84	ug/L
Br	79	1209				ug/L
Se	82	-4	-0.0485	0.3601	742.98	ug/L
Kr	82	30				ug/L
Kr	83	63				ug/L
[Kr	84	282				ug/L
Kr	86	487				ug/L
Sr	88	3462	0.4911	0.4220	85.92	ug/L
[> Y	89	761227				ug/L
[Mo	98	29	-0.0046	0.0018	39.59	ug/L
Ag	107	57	-0.0027	0.0023	83.88	ug/L
Cd	111	442	0.0126	0.0518	410.82	ug/L
[> In	115	350266				ug/L
Sn	118	136	0.0398	0.0037	9.40	ug/L
Sb	121	126	0.0412	0.0010	2.47	ug/L
[Ba	135	46	0.0247	0.0176	71.28	ug/L
[> Tb	159	863352				ug/L
Tl	205	23	-0.0149	0.0005	3.37	ug/L
Pb	208	436	0.0162	0.0038	23.57	ug/L
Bi	209	499282				ug/L

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:35:19

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		99.886			
	Li	7					
	Be	9					
[>	Sc	45		97.882			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		92.854			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		94.449			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		94.494			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		94.501			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:35:19

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ICP-MS Report

Sample ID: 480-44894-F-2-E

Sample Date/Time: Thursday, September 12, 2013 15:12:19

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	255480				ug/L
Li	7	16129	1.0787	0.1137	10.54	ug/L
Be	9	10	-0.0083	0.0078	94.29	ug/L
[> Sc	45	188496				ug/L
V	51	1702	0.2463	0.0305	12.38	ug/L
Cr	52	7161	1.4190	0.0479	3.37	ug/L
Mn	55	268915	56.1743	0.8499	1.51	ug/L
Co	59	467	0.1225	0.0051	4.14	ug/L
Ni	60	987	1.4893	0.0557	3.74	ug/L
Cu	63	4220	2.8132	0.0766	2.72	ug/L
Zn	66	2790	5.7905	0.0330	0.57	ug/L
[> Ge	72	111061				ug/L
As	75	697	1.1485	0.0212	1.84	ug/L
Br	79	37855				ug/L
Se	82	-10	-0.1836	0.1736	94.55	ug/L
Kr	82	36				ug/L
Kr	83	59				ug/L
Kr	84	123				ug/L
Kr	86	83472				ug/L
Sr	88	780658	134.1471	0.4636	0.35	ug/L
[> Y	89	729513				ug/L
Mo	98	661	0.4185	0.0064	1.53	ug/L
Ag	107	86	0.0125	0.0013	10.47	ug/L
Cd	111	449	0.0684	0.0135	19.72	ug/L
[> In	115	331569				ug/L
Sn	118	135	0.0437	0.0024	5.46	ug/L
Sb	121	542	0.2518	0.0172	6.82	ug/L
Ba	135	12267	25.6119	0.2118	0.83	ug/L
[> Tb	159	836633				ug/L
Tl	205	62	-0.0054	0.0010	19.24	ug/L
Pb	208	3044	0.4691	0.0153	3.27	ug/L
Bi	209	482153				ug/L

Sample ID: 480-44894-F-2-E

Report Date/Time: Friday, September 13, 2013 11:35:20

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		96.193			
	Li	7					
	Be	9					
[>	Sc	45		94.613			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	72		88.911			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
>	Y	89		90.514			
	Mo	98					
	Ag	107					
	Cd	111					
>	In	115		89.450			
	Sn	118					
	Sb	121					
	Ba	135					
>	Tb	159		91.577			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 480-44894-F-2-E

Report Date/Time: Friday, September 13, 2013 11:35:20

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ICP-MS Report

Sample ID: rinse

Sample Date/Time: Thursday, September 12, 2013 15:17:49

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	257987				ug/L
Li	7	14441	0.0481	0.2199	457.10	ug/L
Be	9	5	-0.0185	0.0047	25.48	ug/L
[> Sc	45	183032				ug/L
V	51	1035	0.0690	0.0130	18.80	ug/L
Cr	52	3343	0.2009	0.0490	24.37	ug/L
Mn	55	6154	0.2480	0.1332	53.71	ug/L
[Cr	59	48	-0.0109	0.0013	11.90	ug/L
Ni	60	232	0.3014	0.0288	9.56	ug/L
Cu	63	302	0.0368	0.0022	5.92	ug/L
Zn	66	668	1.1829	0.0654	5.53	ug/L
[> Ge	72	111114				ug/L
As	75	126	0.0425	0.0277	65.25	ug/L
Br	79	1595				ug/L
Se	82	-0	0.0235	0.2369	1007.09	ug/L
Kr	82	35				ug/L
Kr	83	58				ug/L
[Kr	84	289				ug/L
Kr	86	313				ug/L
Sr	88	1868	0.2367	0.1957	82.70	ug/L
[> Y	89	731429				ug/L
[Mo	98	25	-0.0067	0.0056	84.14	ug/L
Ag	107	45	-0.0075	0.0009	11.52	ug/L
Cd	111	429	0.0103	0.0322	313.57	ug/L
[> In	115	340923				ug/L
Sn	118	68	-0.0000	0.0017	3545.63	ug/L
Sb	121	112	0.0359	0.0008	2.34	ug/L
[Ba	135	43	0.0194	0.0158	81.67	ug/L
[> Tb	159	851503				ug/L
Tl	205	32	-0.0126	0.0011	8.83	ug/L
Pb	208	903	0.0966	0.0040	4.10	ug/L
Bi	209	502015				ug/L

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:35:22

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		97.137			
	Li	7					
	Be	9					
[>	Sc	45		91.870			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		88.953			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		90.752			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		91.973			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		93.204			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:35:22

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ICP-MS Report

Sample ID: CCV-1582170

Sample Date/Time: Thursday, September 12, 2013 15:23:22

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

	Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[>	Li-6	6	257054				ug/L
	Li	7	58893	25.1186	0.8874	3.53	ug/L
	Be	9	11228	25.0852	0.6301	2.51	ug/L
[>	Sc	45	180199				ug/L
	V	51	85634	24.7479	0.2394	0.97	ug/L
	Cr	52	74302	24.5416	0.4118	1.68	ug/L
	Mn	55	120172	25.6699	0.0309	0.12	ug/L
[	Co	59	78827	25.4568	0.2548	1.00	ug/L
	Ni	60	16109	25.6566	0.1800	0.70	ug/L
	Cu	63	35441	25.3027	0.2388	0.94	ug/L
	Zn	66	11549	25.1842	0.2993	1.19	ug/L
[>	Ge	72	109442				ug/L
	As	75	13117	25.5376	0.1164	0.46	ug/L
	Br	79	1193				ug/L
	Se	82	1249	25.6125	0.5743	2.24	ug/L
	Kr	82	163				ug/L
	Kr	83	66				ug/L
[	Kr	84	194				ug/L
	Kr	86	15663				ug/L
	Sr	88	151814	25.7119	0.1944	0.76	ug/L
[>	Y	89	738161				ug/L
[	Mo	98	38594	24.9824	1.0650	4.26	ug/L
	Ag	107	53947	24.6379	0.6704	2.72	ug/L
	Cd	111	14499	24.8667	0.4650	1.87	ug/L
[>	In	115	342029				ug/L
	Sn	118	40547	24.8636	0.4537	1.82	ug/L
	Sb	121	51478	24.8424	0.7400	2.98	ug/L
[	Ba	135	11877	25.0429	0.2159	0.86	ug/L
[>	Tb	159	828297				ug/L
	Tl	205	107564	26.1346	0.0420	0.16	ug/L
	Pb	208	146784	25.5378	0.2505	0.98	ug/L
	Bi	209	490211				ug/L

Sample ID: CCV-1582170

Report Date/Time: Friday, September 13, 2013 11:35:23

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		96.786			
	Li	7	100.474				
	Be	9	100.341				
[>	Sc	45		90.448			
	V	51	98.992				
	Cr	52	98.166				
	Mn	55	102.680				
	Co	59	101.827				
	Ni	60	102.626				
	Cu	63	101.211				
	Zn	66	100.737				
[>	Ge	72		87.614			
	As	75	102.150				
	Br	79					
	Se	82	102.450				
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88	102.848				
[>	Y	89		91.588			
	Mo	98	99.930				
	Ag	107	98.552				
	Cd	111	99.467				
[>	In	115		92.272			
	Sn	118	99.454				
	Sb	121	99.369				
	Ba	135	100.171				
[>	Tb	159		90.664			
	Tl	205	104.538				
	Pb	208	102.151				
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCV-1582170

Report Date/Time: Friday, September 13, 2013 11:35:23

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ICP-MS Report

Sample ID: CCB-1540064

Sample Date/Time: Thursday, September 12, 2013 15:29:55

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	257971				ug/L
Li	7	14597	0.1311	0.0808	61.66	ug/L
Be	9	11	-0.0056	0.0080	143.14	ug/L
[> Sc	45	188199				ug/L
V	51	1059	0.0674	0.0086	12.75	ug/L
Cr	52	3349	0.1714	0.0175	10.21	ug/L
Mn	55	5463	0.0619	0.0518	83.62	ug/L
Co	59	76	-0.0028	0.0068	243.93	ug/L
Ni	60	44	0.0041	0.0059	143.12	ug/L
Cu	63	240	-0.0113	0.0196	173.78	ug/L
Zn	66	124	-0.0058	0.0307	526.33	ug/L
[> Ge	72	113966				ug/L
As	75	107	0.0010	0.0298	3028.84	ug/L
Br	79	1092				ug/L
Se	82	-1	0.0011	0.0728	6609.88	ug/L
Kr	82	45				ug/L
Kr	83	62				ug/L
Kr	84	292				ug/L
Kr	86	201				ug/L
Sr	88	951	0.0739	0.0785	106.17	ug/L
[> Y	89	753756				ug/L
Mo	98	42	0.0037	0.0018	49.55	ug/L
Ag	107	71	0.0035	0.0040	113.48	ug/L
Cd	111	442	0.0134	0.0221	164.16	ug/L
[> In	115	349500				ug/L
Sn	118	72	0.0015	0.0070	463.01	ug/L
Sb	121	318	0.1315	0.0233	17.75	ug/L
Ba	135	30	-0.0094	0.0082	87.15	ug/L
[> Tb	159	862965				ug/L
Tl	205	84	-0.0007	0.0037	539.78	ug/L
Pb	208	334	-0.0007	0.0041	615.90	ug/L
Bi	209	500391				ug/L

Sample ID: CCB-1540064

Report Date/Time: Friday, September 13, 2013 11:35:25

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		97.131			
	Li	7					
	Be	9					
[>	Sc	45		94.464			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		91.236			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		93.523			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		94.287			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		94.459			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCB-1540064

Report Date/Time: Friday, September 13, 2013 11:35:25

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ICP-MS Report

Sample ID: 480-45418-C-1-C

Sample Date/Time: Thursday, September 12, 2013 15:35:25

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	294764				ug/L
Li	7	327836	153.1047	4.5193	2.95	ug/L
Be	9	18	0.0053	0.0098	185.54	ug/L
[> Sc	45	252632				ug/L
V	51	4300	0.6709	0.0955	14.23	ug/L
Cr	52	38498	8.5049	0.2923	3.44	ug/L
Mn	55	20116086	3198.8283	80.0486	2.50	ug/L
[Cr	59	22448	6.0692	0.1218	2.01	ug/L
Ni	60	15493	20.7212	0.4953	2.39	ug/L
Cu	63	26537	15.8468	0.3129	1.97	ug/L
Zn	66	7265	13.1953	0.2985	2.26	ug/L
[> Ge	72	130243				ug/L
As	75	18339	30.0449	0.1669	0.56	ug/L
Br	79	704343				ug/L
Se	82	-106	-1.7799	0.4204	23.62	ug/L
Kr	82	799				ug/L
Kr	83	94				ug/L
[Kr	84	-12092				ug/L
Kr	86	854404				ug/L
Sr	88	10260335	1447.1540	25.3352	1.75	ug/L
[> Y	89	888705				ug/L
[Mo	98	7153	4.3109	0.0770	1.79	ug/L
Ag	107	224	0.0678	0.0053	7.82	ug/L
Cd	111	587	0.2248	0.0885	39.38	ug/L
[> In	115	365163				ug/L
Sn	118	454	0.2190	0.0093	4.25	ug/L
Sb	121	1865	0.8264	0.0492	5.96	ug/L
[Ba	135	85588	173.2417	4.9031	2.83	ug/L
[> Tb	159	864815				ug/L
Tl	205	3297	0.7479	0.0223	2.98	ug/L
Pb	208	4264	0.6557	0.0206	3.14	ug/L
Bi	209	432376				ug/L

Sample ID: 480-45418-C-1-C

Report Date/Time: Friday, September 13, 2013 11:35:26

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		110.984			
	Li	7					
	Be	9					
[>	Sc	45		126.804			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		104.266			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		110.266			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		98.513			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		94.661			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Sc 45 Int Std for sample	Sc	45	IS out of control (30-120 6020, 60-125 200.8)
Mn 55 Upper, S, EEE	Mn	55	
Se 82 Lower	Se	82	
Sr 88 Upper, S, EEE	Sr	88	

Sample ID: 480-45418-C-1-C

Report Date/Time: Friday, September 13, 2013 11:35:26

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ICP-MS Report

Sample ID: 480-45418-C-5-G

Sample Date/Time: Thursday, September 12, 2013 15:41:57

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	314145				ug/L
Li	7	489875	217.8132	4.5908	2.11	ug/L
Be	9	13	-0.0067	0.0025	37.69	ug/L
[> Sc	45	262576				ug/L
V	51	2250	0.2236	0.0703	31.42	ug/L
Cr	52	10310	1.4978	0.0446	2.98	ug/L
Mn	55	22047550	3370.3713	51.3891	1.52	ug/L
[Cr	59	20373	5.2817	0.0183	0.35	ug/L
Ni	60	14579	18.6966	0.0874	0.47	ug/L
Cu	63	9654	5.4167	0.1393	2.57	ug/L
Zn	66	6143	10.6422	0.4599	4.32	ug/L
[> Ge	72	135784				ug/L
As	75	7540	11.7252	0.1294	1.10	ug/L
Br	79	579691				ug/L
Se	82	-99	-1.6079	0.5942	36.96	ug/L
Kr	82	587				ug/L
Kr	83	90				ug/L
[Kr	84	-13594				ug/L
Kr	86	984807				ug/L
Sr	88	11795436	1699.8227	16.7564	0.99	ug/L
[> Y	89	870344				ug/L
[Mo	98	5213	3.1014	0.0694	2.24	ug/L
Ag	107	142	0.0321	0.0016	4.95	ug/L
Cd	111	507	0.0783	0.1054	134.63	ug/L
[> In	115	369356				ug/L
Sn	118	170	0.0547	0.0038	6.89	ug/L
Sb	121	1185	0.5112	0.0158	3.10	ug/L
[Ba	135	56868	114.8461	1.8728	1.63	ug/L
[> Tb	159	866685				ug/L
Tl	205	3911	0.8888	0.0358	4.03	ug/L
Pb	208	1115	0.1292	0.0078	6.05	ug/L
Bi	209	444023				ug/L

Sample ID: 480-45418-C-5-G

Report Date/Time: Friday, September 13, 2013 11:35:27

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		118.282			
	Li	7					
	Be	9					
[>	Sc	45		131.796			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		108.702			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		107.988			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		99.644			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		94.866			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Li 7 Upper, S, EEE	Li	7	
Sc 45 Int Std for sample	Sc	45	IS out of control (30-120 6020, 60-125 200.8)
Mn 55 Upper, S, EEE	Mn	55	
Se 82 Lower	Se	82	
Sr 88 Upper, S, EEE	Sr	88	

ICP-MS Report

Sample ID: 480-45418-C-5-G SD@5

Sample Date/Time: Thursday, September 12, 2013 15:48:29

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	270055				ug/L
Li	7	107308	49.4902	1.2794	2.59	ug/L
Be	9	6	-0.0175	0.0014	8.12	ug/L
[> Sc	45	197944				ug/L
V	51	1003	0.0380	0.0125	33.01	ug/L
Cr	52	3996	0.3191	0.0132	4.15	ug/L
Mn	55	3691208	747.5540	11.3864	1.52	ug/L
[Cr	59	3586	1.0736	0.0476	4.44	ug/L
Ni	60	2754	4.1057	0.2239	5.45	ug/L
Cu	63	1994	1.1821	0.0228	1.92	ug/L
Zn	66	1553	2.9778	0.0653	2.19	ug/L
[> Ge	72	115403				ug/L
As	75	1412	2.4267	0.1214	5.00	ug/L
Br	79	107147				ug/L
Se	82	-8	-0.1262	0.2437	193.10	ug/L
Kr	82	162				ug/L
Kr	83	69				ug/L
[Kr	84	1116				ug/L
Kr	86	187664				ug/L
Sr	88	1586289	264.5556	3.9128	1.48	ug/L
[> Y	89	752022				ug/L
[Mo	98	929	0.5779	0.0161	2.78	ug/L
Ag	107	54	-0.0034	0.0016	47.14	ug/L
Cd	111	440	0.0252	0.0053	21.14	ug/L
[> In	115	342623				ug/L
Sn	118	71	0.0014	0.0028	194.32	ug/L
Sb	121	266	0.1101	0.0072	6.51	ug/L
[Ba	135	10743	21.9132	0.2116	0.97	ug/L
[> Tb	159	855806				ug/L
Tl	205	824	0.1736	0.0052	3.01	ug/L
Pb	208	496	0.0272	0.0060	21.96	ug/L
Bi	209	468232				ug/L

Sample ID: 480-45418-C-5-G SD@5

Report Date/Time: Friday, September 13, 2013 11:35:29

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		101.681			
	Li	7					
	Be	9					
[>	Sc	45		99.355			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	72		92.386			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
>	Y	89		93.307			
	Mo	98					
	Ag	107					
	Cd	111					
>	In	115		92.432			
	Sn	118					
	Sb	121					
	Ba	135					
>	Tb	159		93.675			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: 480-45418-C-5-G PDS

Sample Date/Time: Thursday, September 12, 2013 15:55:01

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	302541				ug/L
Li	7	509613	235.8462	7.2600	3.08	ug/L
Be	9	10044	19.0577	0.7735	4.06	ug/L
[> Sc	45	249934				ug/L
V	51	91894	19.1254	1.0250	5.36	ug/L
Cr	52	82916	19.5793	0.8293	4.24	ug/L
Mn	55	21152717	3398.0481	103.5805	3.05	ug/L
[Cr	59	93727	26.0538	0.2241	0.86	ug/L
Ni	60	28582	39.2221	0.8298	2.12	ug/L
Cu	63	40850	25.1023	0.4609	1.84	ug/L
Zn	66	32665	61.6924	0.7040	1.14	ug/L
[> Ge	72	127125				ug/L
As	75	20266	34.0293	0.3956	1.16	ug/L
Br	79	558516				ug/L
Se	82	1073	18.9438	1.1742	6.20	ug/L
Kr	82	742				ug/L
Kr	83	90				ug/L
[Kr	84	-12570				ug/L
Kr	86	935184				ug/L
Sr	88	11214179	1683.8916	13.2204	0.79	ug/L
[> Y	89	835292				ug/L
[Mo	98	41365	25.9375	0.4664	1.80	ug/L
Ag	107	44103	19.5187	0.1949	1.00	ug/L
Cd	111	12427	20.5381	0.3269	1.59	ug/L
[> In	115	352549				ug/L
Sn	118	35703	21.2255	0.0959	0.45	ug/L
Sb	121	47972	22.4419	0.2561	1.14	ug/L
[Ba	135	64911	133.1970	0.6008	0.45	ug/L
[> Tb	159	853052				ug/L
Tl	205	85106	20.0732	0.0581	0.29	ug/L
Pb	208	110471	18.6491	0.2521	1.35	ug/L
Bi	209	435550				ug/L

Sample ID: 480-45418-C-5-G PDS

Report Date/Time: Friday, September 13, 2013 11:35:30

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		113.912			
	Li	7					
	Be	9					
[>	Sc	45		125.451			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		101.770			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		103.639			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		95.110			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		93.374			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Li 7 Upper, S, EEE	Li	7	
Sc 45 Int Std for sample	Sc	45	IS out of control (30-120 6020, 60-125 200.8)
Mn 55 Upper, S, EEE	Mn	55	
Sr 88 Upper, S, EEE	Sr	88	

ICP-MS Report

Sample ID: 480-45418-C-5-H MS

Sample Date/Time: Thursday, September 12, 2013 16:01:34

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	308421				ug/L
Li	7	532193	241.8326	4.8072	1.99	ug/L
Be	9	10245	19.0682	0.2782	1.46	ug/L
[> Sc	45	252793				ug/L
V	51	93117	19.1442	0.4476	2.34	ug/L
Cr	52	85217	19.9006	0.3063	1.54	ug/L
Mn	55	21579773	3429.8062	121.1226	3.53	ug/L
[Cr	59	95223	25.8317	0.2003	0.78	ug/L
Ni	60	28479	38.1129	0.9705	2.55	ug/L
Cu	63	41172	24.6833	0.5759	2.33	ug/L
Zn	66	32979	60.7773	1.8748	3.08	ug/L
[> Ge	72	130292				ug/L
As	75	20721	33.9627	0.7518	2.21	ug/L
Br	79	563472				ug/L
Se	82	1062	18.3150	0.7945	4.34	ug/L
Kr	82	694				ug/L
Kr	83	94				ug/L
[Kr	84	-12190				ug/L
Kr	86	957882				ug/L
Sr	88	11403479	1742.9784	22.4855	1.29	ug/L
[> Y	89	820643				ug/L
[Mo	98	41673	25.7813	0.1818	0.71	ug/L
Ag	107	45872	20.0311	0.3859	1.93	ug/L
Cd	111	12415	20.2288	0.1119	0.55	ug/L
[> In	115	357393				ug/L
Sn	118	35710	20.9408	0.1801	0.86	ug/L
Sb	121	50158	23.1504	0.5405	2.33	ug/L
[Ba	135	65889	134.9253	0.3621	0.27	ug/L
[> Tb	159	854832				ug/L
Tl	205	85275	20.0710	0.0408	0.20	ug/L
Pb	208	112660	18.9812	0.2289	1.21	ug/L
Bi	209	438934				ug/L

Sample ID: 480-45418-C-5-H MS

Report Date/Time: Friday, September 13, 2013 11:35:31

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		116.126			
	Li	7					
	Be	9					
[>	Sc	45		126.885			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		104.306			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		101.821			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		96.417			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		93.569			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Li 7 Upper, S, EEE	Li	7	
Sc 45 Int Std for sample	Sc	45	IS out of control (30-120 6020, 60-125 200.8)
Mn 55 Upper, S, EEE	Mn	55	
Sr 88 Upper, S, EEE	Sr	88	

ICP-MS Report

Sample ID: 480-45418-C-5-I MSD

Sample Date/Time: Thursday, September 12, 2013 16:08:07

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	295593				ug/L
Li	7	508384	241.0126	5.2628	2.18	ug/L
[Be	9	10100	19.6234	0.8804	4.49	ug/L
[> Sc	45	247192				ug/L
V	51	91132	19.1512	0.4309	2.25	ug/L
Cr	52	83536	19.9539	0.8128	4.07	ug/L
[Mn	55	20711222	3363.3047	151.8752	4.52	ug/L
[Co	59	94418	25.8038	0.7305	2.83	ug/L
Ni	60	28798	38.8420	0.5375	1.38	ug/L
Cu	63	40477	24.4486	0.5400	2.21	ug/L
Zn	66	31927	59.2722	1.4790	2.50	ug/L
[> Ge	72	129341				ug/L
As	75	20112	33.1942	0.1350	0.41	ug/L
Br	79	556781				ug/L
Se	82	1020	17.7107	0.5254	2.97	ug/L
Kr	82	663				ug/L
[Kr	83	86				ug/L
[Kr	84	-12117				ug/L
Kr	86	927421				ug/L
Sr	88	11139426	1720.0734	8.3664	0.49	ug/L
[> Y	89	812352				ug/L
[Mo	98	41110	26.0693	0.7997	3.07	ug/L
Ag	107	45454	20.3363	0.1872	0.92	ug/L
Cd	111	12181	20.3431	0.0830	0.41	ug/L
[> In	115	348772				ug/L
Sn	118	35600	21.3975	0.4581	2.14	ug/L
[Sb	121	48679	23.0190	0.4887	2.12	ug/L
[Ba	135	63970	132.7535	0.6854	0.52	ug/L
[> Tb	159	843471				ug/L
Tl	205	85102	20.3025	0.3206	1.58	ug/L
[Pb	208	110858	18.9299	0.3073	1.62	ug/L
Bi	209	429816				ug/L

Sample ID: 480-45418-C-5-I MSD

Report Date/Time: Friday, September 13, 2013 11:35:33

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		111.297			
	Li	7					
	Be	9					
[>	Sc	45		124.074			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		103.544			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		100.793			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		94.091			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		92.325			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Li 7 Upper, S, EEE	Li	7	
Sc 45 Int Std for sample	Sc	45	IS out of control (30-120 6020, 60-125 200.8)
Mn 55 Upper, S, EEE	Mn	55	
Sr 88 Upper, S, EEE	Sr	88	

ICP-MS Report

Sample ID: 480-45418-C-6-C

Sample Date/Time: Thursday, September 12, 2013 16:14:41

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	257844				ug/L
Li	7	135484	68.0267	1.7332	2.55	ug/L
Be	9	61	0.1067	0.0221	20.72	ug/L
[> Sc	45	208935				ug/L
V	51	5593	1.1784	0.0324	2.75	ug/L
Cr	52	10966	2.3138	0.0861	3.72	ug/L
Mn	55	2953034	566.2892	4.2813	0.76	ug/L
[Cr	59	1963	0.6039	0.0450	7.46	ug/L
Ni	60	3336	5.2315	0.1172	2.24	ug/L
Cu	63	5115	3.4781	0.0396	1.14	ug/L
Zn	66	4852	10.3631	0.1841	1.78	ug/L
[> Ge	72	110075				ug/L
As	75	2382	4.4461	0.1243	2.80	ug/L
Br	79	62204				ug/L
Se	82	-4	-0.0431	0.1666	386.24	ug/L
Kr	82	78				ug/L
Kr	83	65				ug/L
[Kr	84	-9014				ug/L
Kr	86	641311				ug/L
Sr	88	7488976	1280.7401	10.5961	0.83	ug/L
[> Y	89	733491				ug/L
[Mo	98	7437	5.0411	0.0174	0.34	ug/L
Ag	107	176	0.0562	0.0143	25.48	ug/L
Cd	111	460	0.1044	0.0128	12.23	ug/L
[> In	115	325020				ug/L
Sn	118	376	0.2003	0.0276	13.79	ug/L
Sb	121	684	0.3289	0.0132	4.01	ug/L
[Ba	135	57248	123.4539	1.1097	0.90	ug/L
[> Tb	159	811760				ug/L
Tl	205	197	0.0283	0.0176	62.30	ug/L
Pb	208	14032	2.4393	0.0513	2.10	ug/L
Bi	209	450639				ug/L

Sample ID: 480-45418-C-6-C

Report Date/Time: Friday, September 13, 2013 11:35:34

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		97.083			
	Li	7					
	Be	9					
[>	Sc	45		104.872			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		88.121			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		91.008			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		87.683			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		88.854			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Sr 88 Upper, S, EEE	Sr	88	

ICP-MS Report

Sample ID: 480-45418-C-7-C

Sample Date/Time: Thursday, September 12, 2013 16:20:12

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	284035				ug/L
Li	7	461074	227.0296	5.6847	2.50	ug/L
Be	9	23	0.0169	0.0339	200.66	ug/L
[> Sc	45	227817				ug/L
V	51	2051	0.2449	0.0279	11.38	ug/L
Cr	52	9269	1.5860	0.0481	3.03	ug/L
Mn	55	19528741	3439.9146	18.9901	0.55	ug/L
[Cr	59	18004	5.3489	0.0970	1.81	ug/L
Ni	60	13117	19.2732	0.5764	2.99	ug/L
Cu	63	9452	6.0951	0.1432	2.35	ug/L
Zn	66	5785	11.4995	0.1146	1.00	ug/L
[> Ge	72	118527				ug/L
As	75	7070	12.6122	0.2179	1.73	ug/L
Br	79	513655				ug/L
Se	82	-72	-1.3359	0.4338	32.47	ug/L
Kr	82	544				ug/L
Kr	83	81				ug/L
[Kr	84	-12512				ug/L
Kr	86	875673				ug/L
Sr	88	10462599	1694.0005	9.3165	0.55	ug/L
[> Y	89	774657				ug/L
[Mo	98	4712	3.0994	0.0595	1.92	ug/L
Ag	107	171	0.0520	0.0321	61.70	ug/L
Cd	111	455	0.0724	0.0963	132.97	ug/L
[> In	115	333991				ug/L
Sn	118	212	0.0917	0.0207	22.55	ug/L
Sb	121	1147	0.5485	0.0379	6.91	ug/L
[Ba	135	52248	109.9939	1.9628	1.78	ug/L
[> Tb	159	831363				ug/L
Tl	205	3867	0.9166	0.0401	4.37	ug/L
Pb	208	1894	0.2724	0.0329	12.09	ug/L
Bi	209	429692				ug/L

Sample ID: 480-45418-C-7-C

Report Date/Time: Friday, September 13, 2013 11:35:35

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		106.945			
	Li	7					
	Be	9					
[>	Sc	45		114.349			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		94.888			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		96.116			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		90.103			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		91.000			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Li 7 Upper, S, EEE	Li	7	
Mn 55 Upper, S, EEE	Mn	55	
Se 82 Lower	Se	82	
Sr 88 Upper, S, EEE	Sr	88	

ICP-MS Report

Sample ID: 480-45418-A-10-C

Sample Date/Time: Thursday, September 12, 2013 16:26:38

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	269131				ug/L
Li	7	16786	0.9724	0.4816	49.53	ug/L
Be	9	9	-0.0104	0.0068	64.94	ug/L
[> Sc	45	196730				ug/L
V	51	1160	0.0814	0.0270	33.23	ug/L
Cr	52	6614	1.1491	0.0709	6.17	ug/L
Mn	55	45711	8.2601	4.6710	56.55	ug/L
[Cr	59	118	0.0092	0.0100	108.45	ug/L
Ni	60	269	0.3350	0.0185	5.52	ug/L
Cu	63	911	0.4312	0.0203	4.71	ug/L
Zn	66	1705	3.2215	0.0255	0.79	ug/L
[> Ge	72	117870				ug/L
As	75	176	0.1195	0.0410	34.32	ug/L
Br	79	9943				ug/L
Se	82	-3	-0.0233	0.1929	828.35	ug/L
Kr	82	46				ug/L
Kr	83	55				ug/L
[Kr	84	291				ug/L
Kr	86	4666				ug/L
Sr	88	43173	6.9551	1.9434	27.94	ug/L
[> Y	89	768263				ug/L
[Mo	98	96	0.0376	0.0107	28.37	ug/L
Ag	107	88	0.0110	0.0020	18.46	ug/L
Cd	111	470	0.0615	0.0099	16.09	ug/L
[> In	115	350042				ug/L
Sn	118	191	0.0728	0.0085	11.68	ug/L
Sb	121	144	0.0497	0.0057	11.43	ug/L
[Ba	135	718	1.3656	0.1515	11.10	ug/L
[> Tb	159	876074				ug/L
Tl	205	38	-0.0115	0.0033	28.91	ug/L
Pb	208	1256	0.1504	0.0037	2.46	ug/L
Bi	209	498910				ug/L

Sample ID: 480-45418-A-10-C

Report Date/Time: Friday, September 13, 2013 11:35:37

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		101.333			
	Li	7					
	Be	9					
[>	Sc	45		98.745			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		94.362			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		95.322			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		94.434			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		95.894			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 480-45418-A-10-C

Report Date/Time: Friday, September 13, 2013 11:35:37

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ICP-MS Report

Sample ID: rinse

Sample Date/Time: Thursday, September 12, 2013 16:32:06

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	274240				ug/L
Li	7	15298	0.0153	0.1488	969.66	ug/L
[Be	9	7	-0.0159	0.0040	25.19	ug/L
[> Sc	45	196250				ug/L
V	51	941	0.0236	0.0259	110.11	ug/L
Cr	52	3311	0.1147	0.0236	20.60	ug/L
[Mn	55	6882	0.3052	0.0110	3.60	ug/L
[Co	59	54	-0.0101	0.0007	6.45	ug/L
Ni	60	94	0.0764	0.0067	8.81	ug/L
Cu	63	334	0.0470	0.0054	11.52	ug/L
Zn	66	429	0.6148	0.0617	10.03	ug/L
[> Ge	72	117233				ug/L
As	75	139	0.0548	0.0395	72.03	ug/L
Br	79	4507				ug/L
Se	82	-2	-0.0042	0.0869	2052.01	ug/L
Kr	82	42				ug/L
[Kr	83	58				ug/L
[Kr	84	309				ug/L
Kr	86	257				ug/L
Sr	88	1294	0.1279	0.0193	15.05	ug/L
[> Y	89	763499				ug/L
[Mo	98	22	-0.0087	0.0060	69.48	ug/L
Ag	107	50	-0.0062	0.0032	51.47	ug/L
Cd	111	464	0.0433	0.0537	124.16	ug/L
[> In	115	353236				ug/L
Sn	118	98	0.0164	0.0037	22.58	ug/L
[Sb	121	65	0.0121	0.0038	31.79	ug/L
[Ba	135	44	0.0193	0.0127	65.94	ug/L
[> Tb	159	873261				ug/L
Tl	205	29	-0.0136	0.0008	5.94	ug/L
[Pb	208	332	-0.0017	0.0029	170.47	ug/L
Bi	209	501123				ug/L

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:35:38

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		103.256			
	Li	7					
	Be	9					
[>	Sc	45		98.504			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		93.851			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		94.731			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		95.295			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		95.586			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:35:38

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ICP-MS Report

Sample ID: CCV-1582170

Sample Date/Time: Thursday, September 12, 2013 16:37:37

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	270720				ug/L
Li	7	63095	25.6904	0.7838	3.05	ug/L
Be	9	11619	24.6439	0.3989	1.62	ug/L
[> Sc	45	190750				ug/L
V	51	90410	24.6821	0.3156	1.28	ug/L
Cr	52	79320	24.7572	0.2581	1.04	ug/L
Mn	55	125308	25.2682	0.1697	0.67	ug/L
[Cr	59	83717	25.7220	0.6750	2.62	ug/L
Ni	60	16896	25.5972	0.2830	1.11	ug/L
Cu	63	37503	25.4684	0.1980	0.78	ug/L
Zn	66	12183	25.2657	0.2996	1.19	ug/L
[> Ge	72	115039				ug/L
As	75	13273	24.5925	0.7325	2.98	ug/L
Br	79	3434				ug/L
Se	82	1253	24.4607	0.5443	2.23	ug/L
Kr	82	137				ug/L
Kr	83	65				ug/L
[Kr	84	229				ug/L
Kr	86	15957				ug/L
Sr	88	153420	25.5008	0.0973	0.38	ug/L
[> Y	89	752169				ug/L
[Mo	98	37997	24.7831	0.3622	1.46	ug/L
Ag	107	55308	25.4621	0.0488	0.19	ug/L
Cd	111	14568	25.2009	0.3144	1.25	ug/L
[> In	115	339026				ug/L
Sn	118	40466	25.0227	0.2257	0.90	ug/L
Sb	121	51600	25.1047	0.3919	1.56	ug/L
[Ba	135	11923	24.4018	0.4607	1.89	ug/L
[> Tb	159	853278				ug/L
Tl	205	106762	25.1776	0.5535	2.20	ug/L
Pb	208	146774	24.7901	0.5170	2.09	ug/L
Bi	209	485089				ug/L

Sample ID: CCV-1582170

Report Date/Time: Friday, September 13, 2013 11:35:40

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		101.931			
	Li	7	102.762				
	Be	9	98.576				
[>	Sc	45		95.744			
	V	51	98.728				
	Cr	52	99.029				
	Mn	55	101.073				
	Co	59	102.888				
	Ni	60	102.389				
	Cu	63	101.874				
	Zn	66	101.063				
>	Ge	72		92.095			
	As	75	98.370				
	Br	79					
	Se	82	97.843				
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88	102.003				
>	Y	89		93.326			
	Mo	98	99.132				
	Ag	107	101.848				
	Cd	111	100.804				
>	In	115		91.462			
	Sn	118	100.091				
	Sb	121	100.419				
	Ba	135	97.607				
>	Tb	159		93.399			
	Tl	205	100.710				
	Pb	208	99.161				
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCV-1582170

Report Date/Time: Friday, September 13, 2013 11:35:40

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ICP-MS Report

Sample ID: CCB-1540064

Sample Date/Time: Thursday, September 12, 2013 16:44:10

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	267680				ug/L
Li	7	15007	0.0569	0.0958	168.38	ug/L
Be	9	8	-0.0126	0.0027	21.45	ug/L
[> Sc	45	192140				ug/L
V	51	1056	0.0603	0.0205	33.99	ug/L
Cr	52	3301	0.1332	0.0242	18.15	ug/L
Mn	55	10133	1.0244	0.8538	83.35	ug/L
[Cr	59	76	-0.0031	0.0029	93.73	ug/L
Ni	60	51	0.0133	0.0034	25.67	ug/L
Cu	63	259	-0.0003	0.0105	3454.76	ug/L
Zn	66	147	0.0387	0.0142	36.65	ug/L
[> Ge	72	115442				ug/L
As	75	123	0.0285	0.0329	115.39	ug/L
Br	79	2805				ug/L
Se	82	-1	0.0114	0.3176	2787.42	ug/L
Kr	82	38				ug/L
Kr	83	68				ug/L
[Kr	84	306				ug/L
Kr	86	430				ug/L
Sr	88	3125	0.4325	0.3483	80.54	ug/L
[> Y	89	754358				ug/L
[Mo	98	36	-0.0002	0.0045	2535.18	ug/L
Ag	107	63	0.0002	0.0039	1811.82	ug/L
Cd	111	463	0.0568	0.0556	98.03	ug/L
[> In	115	346719				ug/L
Sn	118	71	0.0012	0.0032	274.87	ug/L
Sb	121	327	0.1373	0.0313	22.79	ug/L
[Ba	135	43	0.0182	0.0336	184.85	ug/L
[> Tb	159	853810				ug/L
Tl	205	95	0.0021	0.0026	126.03	ug/L
Pb	208	333	-0.0003	0.0033	1220.53	ug/L
Bi	209	489999				ug/L

Sample ID: CCB-1540064

Report Date/Time: Friday, September 13, 2013 11:35:41

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		100.787			
	Li	7					
	Be	9					
[>	Sc	45		96.442			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		92.417			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		93.597			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		93.537			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		93.457			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 9	Mn	55	CCB is out of limits

Sample ID: CCB-1540064

Report Date/Time: Friday, September 13, 2013 11:35:41

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ICP-MS Report

Sample ID: 480-45480-C-2-B

Sample Date/Time: Thursday, September 12, 2013 16:49:39

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	254809				ug/L
Li	7	20073	3.3425	0.1317	3.94	ug/L
Be	9	7	-0.0143	0.0035	24.44	ug/L
[> Sc	45	191783				ug/L
V	51	2556	0.4717	0.0181	3.83	ug/L
Cr	52	2874	-0.0007	0.0320	4445.41	ug/L
Mn	55	257473	52.7794	0.3690	0.70	ug/L
[Cr	59	1067	0.3245	0.0064	1.97	ug/L
Ni	60	744	1.1460	0.0858	7.49	ug/L
Cu	63	1187	0.6918	0.0356	5.15	ug/L
Zn	66	2093	4.4248	0.0455	1.03	ug/L
[> Ge	72	107558				ug/L
As	75	2327	4.4468	0.0655	1.47	ug/L
Br	79	5549				ug/L
Se	82	-3	-0.0286	0.1146	401.24	ug/L
Kr	82	19				ug/L
Kr	83	68				ug/L
[Kr	84	127				ug/L
Kr	86	79530				ug/L
Sr	88	722608	130.0474	0.2586	0.20	ug/L
[> Y	89	696577				ug/L
[Mo	98	7518	5.0564	0.0210	0.42	ug/L
Ag	107	60	0.0006	0.0025	418.21	ug/L
Cd	111	424	0.0323	0.0512	158.58	ug/L
[> In	115	327522				ug/L
Sn	118	84	0.0119	0.0035	29.77	ug/L
Sb	121	242	0.1035	0.0161	15.55	ug/L
[Ba	135	2218	4.6816	0.1800	3.84	ug/L
[> Tb	159	817357				ug/L
Tl	205	53	-0.0072	0.0019	25.87	ug/L
Pb	208	1737	0.2503	0.0011	0.43	ug/L
Bi	209	473710				ug/L

Sample ID: 480-45480-C-2-B

Report Date/Time: Friday, September 13, 2013 11:35:42

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		95.940			
	Li	7					
	Be	9					
[>	Sc	45		96.263			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		86.106			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		86.428			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		88.358			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		89.467			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 480-45480-C-2-B

Report Date/Time: Friday, September 13, 2013 11:35:42

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ICP-MS Report

Sample ID: 480-45481-F-1-B

Sample Date/Time: Thursday, September 12, 2013 16:55:07

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	263816				ug/L
Li	7	23111	4.6222	0.1159	2.51	ug/L
Be	9	9	-0.0104	0.0034	32.54	ug/L
[> Sc	45	200663				ug/L
V	51	4824	1.0350	0.0111	1.07	ug/L
Cr	52	2970	-0.0132	0.0106	80.33	ug/L
Mn	55	14592408	2919.2044	81.2523	2.78	ug/L
[Cr	59	20622	6.7394	0.2259	3.35	ug/L
Ni	60	8975	14.4769	0.1959	1.35	ug/L
Cu	63	143475	104.4882	1.3318	1.27	ug/L
Zn	66	213057	476.1578	3.1995	0.67	ug/L
[> Ge	72	107846				ug/L
As	75	21226	42.0726	0.6231	1.48	ug/L
Br	79	4682				ug/L
Se	82	-7	-0.1146	0.1127	98.31	ug/L
Kr	82	30				ug/L
Kr	83	58				ug/L
[Kr	84	354				ug/L
Kr	86	113494				ug/L
Sr	88	1023840	185.1567	2.6705	1.44	ug/L
[> Y	89	693390				ug/L
[Mo	98	2649	1.7898	0.0556	3.11	ug/L
Ag	107	62	0.0021	0.0016	76.71	ug/L
Cd	111	516	0.2140	0.0271	12.65	ug/L
[> In	115	323479				ug/L
Sn	118	182	0.0762	0.0149	19.62	ug/L
Sb	121	196	0.0818	0.0064	7.81	ug/L
[Ba	135	14787	31.8374	0.6305	1.98	ug/L
[> Tb	159	811627				ug/L
Tl	205	29	-0.0131	0.0010	7.91	ug/L
Pb	208	126117	22.3872	0.1403	0.63	ug/L
Bi	209	469549				ug/L

Sample ID: 480-45481-F-1-B

Report Date/Time: Friday, September 13, 2013 11:35:44

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		99.332			
	Li	7					
	Be	9					
[>	Sc	45		100.720			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		86.336			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		86.033			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		87.267			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		88.839			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mn 55 Upper, S, EEE	Mn	55	

ICP-MS Report

Sample ID: 480-45481-F-2-B

Sample Date/Time: Thursday, September 12, 2013 17:00:36

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	259164				ug/L
Li	7	23175	4.8864	0.2373	4.86	ug/L
[Be	9	7	-0.0145	0.0038	26.43	ug/L
[> Sc	45	191874				ug/L
V	51	2293	0.3999	0.0118	2.95	ug/L
Cr	52	3794	0.2946	0.0503	17.09	ug/L
[Mn	55	48973	9.1361	4.4367	48.56	ug/L
[Co	59	2947	0.9513	0.0387	4.06	ug/L
Ni	60	6197	10.0895	0.3682	3.65	ug/L
Cu	63	3017	2.0480	0.1923	9.39	ug/L
Zn	66	6728	14.9433	0.9171	6.14	ug/L
[> Ge	72	106599				ug/L
As	75	1344	2.5068	0.0380	1.52	ug/L
Br	79	4010				ug/L
Se	82	5	0.1361	0.0915	67.19	ug/L
Kr	82	29				ug/L
[Kr	83	60				ug/L
[Kr	84	-40				ug/L
Kr	86	101237				ug/L
Sr	88	931571	168.0942	3.1298	1.86	ug/L
[> Y	89	695187				ug/L
[Mo	98	2128	1.4607	0.0043	0.30	ug/L
Ag	107	37	-0.0097	0.0022	22.28	ug/L
Cd	111	398	0.0078	0.0658	847.13	ug/L
[> In	115	317381				ug/L
Sn	118	132	0.0453	0.0102	22.45	ug/L
[Sb	121	109	0.0382	0.0078	20.52	ug/L
[Ba	135	1616	3.3759	0.0740	2.19	ug/L
[> Tb	159	821650				ug/L
Tl	205	16	-0.0164	0.0012	7.09	ug/L
[Pb	208	3446	0.5491	0.0309	5.63	ug/L
Bi	209	460919				ug/L

Sample ID: 480-45481-F-2-B

Report Date/Time: Friday, September 13, 2013 11:35:45

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		97.580			
	Li	7					
	Be	9					
[>	Sc	45		96.308			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		85.338			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		86.255			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		85.622			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		89.937			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 480-45481-F-2-B

Report Date/Time: Friday, September 13, 2013 11:35:45

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ICP-MS Report

Sample ID: 480-45480-C-1-B

Sample Date/Time: Thursday, September 12, 2013 17:06:06

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	252969				ug/L
Li	7	20222	3.5128	0.2503	7.13	ug/L
Be	9	6	-0.0167	0.0053	31.48	ug/L
[> Sc	45	189607				ug/L
V	51	2816	0.5523	0.0404	7.32	ug/L
Cr	52	3141	0.0957	0.0378	39.53	ug/L
Mn	55	278229	57.8103	2.5435	4.40	ug/L
[Co	59	1104	0.3434	0.0036	1.04	ug/L
Ni	60	777	1.2204	0.0815	6.68	ug/L
Cu	63	1389	0.8568	0.0171	2.00	ug/L
Zn	66	1902	4.0718	0.0397	0.97	ug/L
[> Ge	72	105654				ug/L
As	75	2304	4.4833	0.0664	1.48	ug/L
Br	79	4844				ug/L
Se	82	-4	-0.0642	0.2761	429.87	ug/L
Kr	82	13				ug/L
Kr	83	56				ug/L
[Kr	84	183				ug/L
Kr	86	80076				ug/L
Sr	88	744357	135.1998	3.6696	2.71	ug/L
[> Y	89	690681				ug/L
[Mo	98	7534	5.2353	0.1328	2.54	ug/L
Ag	107	50	-0.0036	0.0012	32.56	ug/L
Cd	111	415	0.0410	0.0366	89.38	ug/L
[> In	115	317059				ug/L
Sn	118	78	0.0094	0.0037	38.65	ug/L
Sb	121	85	0.0261	0.0043	16.36	ug/L
[Ba	135	2623	5.5737	0.1761	3.16	ug/L
[> Tb	159	814310				ug/L
Tl	205	37	-0.0111	0.0010	9.44	ug/L
Pb	208	2461	0.3799	0.0005	0.13	ug/L
Bi	209	471122				ug/L

Sample ID: 480-45480-C-1-B

Report Date/Time: Friday, September 13, 2013 11:35:46

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		95.248			
	Li	7					
	Be	9					
[>	Sc	45		95.170			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		84.582			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		85.696			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		85.535			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		89.133			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 480-45480-C-1-B

Report Date/Time: Friday, September 13, 2013 11:35:46

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ICP-MS Report

Sample ID: rinse

Sample Date/Time: Thursday, September 12, 2013 17:11:35

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	269223				ug/L
Li	7	14824	-0.0895	0.1814	202.69	ug/L
[Be	9	5	-0.0194	0.0023	12.12	ug/L
[> Sc	45	182978				ug/L
V	51	880	0.0245	0.0064	26.10	ug/L
Cr	52	2957	0.0706	0.0285	40.31	ug/L
[Mn	55	5578	0.1215	0.0565	46.49	ug/L
[Co	59	45	-0.0114	0.0030	26.39	ug/L
Ni	60	94	0.0883	0.0117	13.28	ug/L
Cu	63	256	0.0104	0.0216	208.71	ug/L
Zn	66	338	0.4909	0.0259	5.28	ug/L
[> Ge	72	107356				ug/L
As	75	105	0.0111	0.0640	576.27	ug/L
Br	79	1603				ug/L
Se	82	-5	-0.0790	0.1491	188.87	ug/L
Kr	82	23				ug/L
[Kr	83	61				ug/L
[Kr	84	278				ug/L
Kr	86	231				ug/L
Sr	88	1115	0.1162	0.0461	39.68	ug/L
[> Y	89	698727				ug/L
[Mo	98	23	-0.0070	0.0034	48.73	ug/L
Ag	107	44	-0.0070	0.0028	39.71	ug/L
Cd	111	434	0.0531	0.0185	34.87	ug/L
[> In	115	326247				ug/L
Sn	118	83	0.0115	0.0051	44.72	ug/L
[Sb	121	92	0.0283	0.0014	4.78	ug/L
[Ba	135	28	-0.0097	0.0091	94.16	ug/L
[> Tb	159	832672				ug/L
Tl	205	21	-0.0152	0.0005	3.46	ug/L
[Pb	208	363	0.0064	0.0014	22.70	ug/L
Bi	209	486842				ug/L

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:35:48

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		101.368			
	Li	7					
	Be	9					
[>	Sc	45		91.843			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		85.944			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		86.695			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		88.014			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		91.143			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:35:48

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ICP-MS Report

Sample ID: 480-45493-D-1-A

Sample Date/Time: Thursday, September 12, 2013 17:17:06

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

	Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[>	Li-6	6	263651				ug/L
	Li	7	17045	1.2986	0.1830	14.09	ug/L
[	Be	9	6	-0.0168	0.0091	54.07	ug/L
[>	Sc	45	185954				ug/L
	V	51	1157	0.0988	0.0253	25.61	ug/L
	Cr	52	3081	0.0955	0.0153	16.06	ug/L
[	Mn	55	170147	35.6279	0.9267	2.60	ug/L
[	Co	59	633	0.1862	0.0098	5.28	ug/L
	Ni	60	978	1.5586	0.0826	5.30	ug/L
	Cu	63	5323	3.7995	0.1076	2.83	ug/L
	Zn	66	1972	4.2458	0.1969	4.64	ug/L
[>	Ge	72	105349				ug/L
	As	75	265	0.3399	0.0550	16.19	ug/L
	Br	79	5371				ug/L
	Se	82	3	0.0997	0.1753	175.81	ug/L
	Kr	82	9				ug/L
[	Kr	83	55				ug/L
[	Kr	84	137				ug/L
	Kr	86	28682				ug/L
	Sr	88	269222	48.4869	0.2122	0.44	ug/L
[>	Y	89	695288				ug/L
[	Mo	98	171	0.0942	0.0087	9.23	ug/L
	Ag	107	113	0.0265	0.0032	12.04	ug/L
	Cd	111	385	-0.0291	0.0646	221.77	ug/L
[>	In	115	322548				ug/L
	Sn	118	141	0.0498	0.0066	13.28	ug/L
[	Sb	121	192	0.0799	0.0027	3.32	ug/L
[	Ba	135	10194	21.8653	0.4719	2.16	ug/L
[>	Tb	159	814161				ug/L
	Tl	205	14	-0.0167	0.0011	6.40	ug/L
[	Pb	208	837	0.0918	0.0040	4.38	ug/L
	Bi	209	471533				ug/L

Sample ID: 480-45493-D-1-A

Report Date/Time: Friday, September 13, 2013 11:35:49

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		99.270			
	Li	7					
	Be	9					
[>	Sc	45		93.337			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		84.338			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		86.268			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		87.016			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		89.117			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 480-45493-D-1-A

Report Date/Time: Friday, September 13, 2013 11:35:49

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ICP-MS Report

Sample ID: 480-45493-D-3-A

Sample Date/Time: Thursday, September 12, 2013 17:23:36

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	265935				ug/L
Li	7	16790	1.0828	0.1806	16.68	ug/L
Be	9	8	-0.0115	0.0013	11.26	ug/L
[> Sc	45	186152				ug/L
V	51	2138	0.3750	0.0118	3.14	ug/L
Cr	52	3454	0.2199	0.0453	20.62	ug/L
Mn	55	176612	37.0352	1.7087	4.61	ug/L
[Cr	59	422	0.1118	0.0058	5.23	ug/L
Ni	60	716	1.0946	0.0342	3.12	ug/L
Cu	63	3364	2.2720	0.0662	2.91	ug/L
Zn	66	1539	3.1665	0.0450	1.42	ug/L
[> Ge	72	108042				ug/L
As	75	302	0.3995	0.0427	10.69	ug/L
Br	79	3475				ug/L
Se	82	4	0.1159	0.1169	100.86	ug/L
Kr	82	27				ug/L
Kr	83	59				ug/L
[Kr	84	86				ug/L
Kr	86	47640				ug/L
Sr	88	446106	80.2925	0.7337	0.91	ug/L
[> Y	89	696312				ug/L
[Mo	98	405	0.2541	0.0215	8.47	ug/L
Ag	107	45	-0.0064	0.0027	41.47	ug/L
Cd	111	413	0.0206	0.0307	149.23	ug/L
[> In	115	324191				ug/L
Sn	118	85	0.0132	0.0038	29.06	ug/L
Sb	121	132	0.0487	0.0055	11.22	ug/L
[Ba	135	4852	10.2150	0.1843	1.80	ug/L
[> Tb	159	826164				ug/L
Tl	205	56	-0.0067	0.0007	10.06	ug/L
Pb	208	1218	0.1565	0.0075	4.81	ug/L
Bi	209	485084				ug/L

Sample ID: 480-45493-D-3-A

Report Date/Time: Friday, September 13, 2013 11:35:51

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		100.130			
	Li	7					
	Be	9					
[>	Sc	45		93.436			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	72		86.493			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
>	Y	89		86.395			
	Mo	98					
	Ag	107					
	Cd	111					
>	In	115		87.459			
	Sn	118					
	Sb	121					
	Ba	135					
>	Tb	159		90.431			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: rinse

Sample Date/Time: Thursday, September 12, 2013 17:30:07

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

	Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[>	Li-6	6	261369				ug/L
	Li	7	14596	0.0240	0.0756	315.04	ug/L
	Be	9	6	-0.0161	0.0016	10.19	ug/L
[>	Sc	45	181385				ug/L
	V	51	883	0.0276	0.0086	31.00	ug/L
	Cr	52	2940	0.0737	0.0171	23.20	ug/L
	Mn	55	5610	0.1392	0.0113	8.12	ug/L
	Co	59	46	-0.0110	0.0008	7.25	ug/L
	Ni	60	120	0.1327	0.0055	4.16	ug/L
	Cu	63	282	0.0305	0.0028	9.12	ug/L
	Zn	66	409	0.6533	0.0256	3.93	ug/L
[>	Ge	72	106939				ug/L
	As	75	104	0.0079	0.0113	142.86	ug/L
	Br	79	1375				ug/L
	Se	82	-6	-0.0919	0.2082	226.50	ug/L
	Kr	82	28				ug/L
	Kr	83	59				ug/L
	Kr	84	271				ug/L
	Kr	86	215				ug/L
	Sr	88	911	0.0784	0.0083	10.62	ug/L
[>	Y	89	700146				ug/L
	Mo	98	11	-0.0156	0.0022	14.29	ug/L
	Ag	107	35	-0.0115	0.0011	9.40	ug/L
	Cd	111	410	0.0099	0.0112	112.51	ug/L
[>	In	115	326175				ug/L
	Sn	118	64	-0.0004	0.0065	1449.32	ug/L
	Sb	121	45	0.0046	0.0012	25.34	ug/L
	Ba	135	33	0.0011	0.0087	805.40	ug/L
[>	Tb	159	828750				ug/L
	Tl	205	22	-0.0149	0.0006	4.21	ug/L
	Pb	208	357	0.0056	0.0016	27.99	ug/L
	Bi	209	481551				ug/L

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:35:52

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		98.410			
	Li	7					
	Be	9					
[>	Sc	45		91.043			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		85.610			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		86.871			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		87.995			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		90.714			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:35:52

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ICP-MS Report

Sample ID: MB 480-137745/1-D

Sample Date/Time: Thursday, September 12, 2013 17:41:48

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	283041				ug/L
Li	7	16044	0.1469	0.2695	183.49	ug/L
[Be	9	7	-0.0158	0.0056	35.66	ug/L
[> Sc	45	199912				ug/L
V	51	909	0.0106	0.0049	46.12	ug/L
Cr	52	9485	2.0030	0.0678	3.38	ug/L
[Mn	55	4108	-0.2776	0.0116	4.19	ug/L
[Co	59	39	-0.0145	0.0009	5.96	ug/L
Ni	60	87	0.0657	0.0081	12.40	ug/L
Cu	63	267	0.0025	0.0105	425.63	ug/L
Zn	66	1566	2.9570	0.0890	3.01	ug/L
[> Ge	72	117156				ug/L
As	75	109	-0.0014	0.0279	1992.00	ug/L
Br	79	1531				ug/L
Se	82	-6	-0.0829	0.1481	178.68	ug/L
Kr	82	35				ug/L
[Kr	83	62				ug/L
[Kr	84	293				ug/L
Kr	86	250				ug/L
Sr	88	1340	0.1343	0.0152	11.30	ug/L
[> Y	89	766575				ug/L
[Mo	98	13	-0.0147	0.0006	4.02	ug/L
Ag	107	63	-0.0004	0.0023	529.32	ug/L
Cd	111	455	0.0261	0.0225	86.11	ug/L
[> In	115	354049				ug/L
Sn	118	73	0.0016	0.0074	461.68	ug/L
[Sb	121	40	0.0001	0.0012	838.79	ug/L
[Ba	135	107	0.1454	0.0096	6.64	ug/L
[> Tb	159	869625				ug/L
Tl	205	13	-0.0173	0.0016	9.01	ug/L
[Pb	208	205	-0.0226	0.0013	5.74	ug/L
Bi	209	504058				ug/L

Sample ID: MB 480-137745/1-D

Report Date/Time: Friday, September 13, 2013 11:35:53

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		106.570			
	Li	7					
	Be	9					
[>	Sc	45		100.342			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		93.789			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		95.113			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		95.514			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		95.188			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: MB 480-137745/1-D

Report Date/Time: Friday, September 13, 2013 11:35:53

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ICP-MS Report

Sample ID: CCV-1582170

Sample Date/Time: Thursday, September 12, 2013 17:47:21

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	272486				ug/L
Li	7	62259	25.0306	1.2134	4.85	ug/L
Be	9	11669	24.5815	0.3436	1.40	ug/L
[> Sc	45	189390				ug/L
V	51	88789	24.4256	0.7317	3.00	ug/L
Cr	52	75937	23.8539	0.9250	3.88	ug/L
Mn	55	120219	24.3900	0.7181	2.94	ug/L
[Cr	59	80474	25.4899	0.5249	2.06	ug/L
Ni	60	16375	25.5788	0.3180	1.24	ug/L
Cu	63	36234	25.3693	0.3185	1.26	ug/L
Zn	66	12079	25.8423	0.6815	2.64	ug/L
[> Ge	72	111584				ug/L
As	75	13057	24.9300	0.1096	0.44	ug/L
Br	79	1248				ug/L
Se	82	1236	24.8661	0.7313	2.94	ug/L
Kr	82	166				ug/L
Kr	83	70				ug/L
[Kr	84	216				ug/L
Kr	86	15698				ug/L
Sr	88	146806	25.4942	0.1995	0.78	ug/L
[> Y	89	719986				ug/L
[Mo	98	37341	24.9363	0.5173	2.07	ug/L
Ag	107	53220	25.0825	0.0212	0.08	ug/L
Cd	111	14381	25.4794	0.3310	1.30	ug/L
[> In	115	331172				ug/L
Sn	118	40071	25.3724	0.3369	1.33	ug/L
Sb	121	50341	25.0742	0.3175	1.27	ug/L
[Ba	135	11786	25.1193	0.6422	2.56	ug/L
[> Tb	159	819726				ug/L
Tl	205	106986	26.2643	0.2571	0.98	ug/L
Pb	208	147695	25.9695	0.1097	0.42	ug/L
Bi	209	488297				ug/L

Sample ID: CCV-1582170

Report Date/Time: Friday, September 13, 2013 11:35:55

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		102.596			
	Li	7	100.122				
	Be	9	98.326				
[>	Sc	45		95.061			
	V	51	97.702				
	Cr	52	95.416				
	Mn	55	97.560				
	Co	59	101.959				
	Ni	60	102.315				
	Cu	63	101.477				
	Zn	66	103.369				
[>	Ge	72		89.329			
	As	75	99.720				
	Br	79					
	Se	82	99.464				
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88	101.977				
[>	Y	89		89.332			
	Mo	98	99.745				
	Ag	107	100.330				
	Cd	111	101.918				
[>	In	115		89.343			
	Sn	118	101.490				
	Sb	121	100.297				
	Ba	135	100.477				
[>	Tb	159		89.726			
	Tl	205	105.057				
	Pb	208	103.878				
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCV-1582170

Report Date/Time: Friday, September 13, 2013 11:35:55

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ICP-MS Report

Sample ID: CCB-1540064

Sample Date/Time: Thursday, September 12, 2013 17:53:57

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	258014				ug/L
Li	7	14867	0.2827	0.2496	88.30	ug/L
Be	9	8	-0.0115	0.0025	21.48	ug/L
[> Sc	45	190874				ug/L
V	51	1038	0.0574	0.0060	10.49	ug/L
Cr	52	3199	0.1081	0.0327	30.25	ug/L
Mn	55	5299	0.0122	0.0109	89.53	ug/L
[Co	59	80	-0.0013	0.0071	538.61	ug/L
Ni	60	49	0.0129	0.0098	76.28	ug/L
Cu	63	229	-0.0164	0.0076	46.69	ug/L
Zn	66	112	-0.0262	0.0213	81.61	ug/L
[> Ge	72	111918				ug/L
As	75	124	0.0367	0.0148	40.41	ug/L
Br	79	1205				ug/L
Se	82	2	0.0781	0.0987	126.41	ug/L
Kr	82	29				ug/L
Kr	83	64				ug/L
[Kr	84	286				ug/L
Kr	86	173				ug/L
Sr	88	495	-0.0000	0.0037	46461.41	ug/L
[> Y	89	732778				ug/L
[Mo	98	41	0.0043	0.0094	219.96	ug/L
Ag	107	59	-0.0010	0.0090	884.15	ug/L
Cd	111	434	0.0253	0.0580	229.51	ug/L
[> In	115	337747				ug/L
Sn	118	75	0.0044	0.0117	264.73	ug/L
Sb	121	316	0.1358	0.0314	23.16	ug/L
[Ba	135	29	-0.0093	0.0111	118.58	ug/L
[> Tb	159	833707				ug/L
Tl	205	91	0.0016	0.0076	479.47	ug/L
Pb	208	330	0.0006	0.0058	1039.55	ug/L
Bi	209	480108				ug/L

Sample ID: CCB-1540064

Report Date/Time: Friday, September 13, 2013 11:35:56

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		97.147			
	Li	7					
	Be	9					
[>	Sc	45		95.806			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		89.597			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		90.920			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		91.117			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		91.256			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCB-1540064

Report Date/Time: Friday, September 13, 2013 11:35:56

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ICP-MS Report

Sample ID: MB 480-138619/13-B

Sample Date/Time: Thursday, September 12, 2013 18:08:35

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	277929				ug/L
Li	7	15590	0.0605	0.0955	157.83	ug/L
[Be	9	8	-0.0123	0.0032	26.18	ug/L
[> Sc	45	201352				ug/L
V	51	933	0.0165	0.0334	202.17	ug/L
Cr	52	3292	0.0886	0.1130	127.65	ug/L
[Mn	55	2294	-0.6417	0.0671	10.45	ug/L
[Co	59	39	-0.0148	0.0019	12.65	ug/L
Ni	60	44	0.0010	0.0055	550.62	ug/L
Cu	63	224	-0.0289	0.0144	49.91	ug/L
Zn	66	521	0.7893	0.0309	3.92	ug/L
[> Ge	72	118822				ug/L
As	75	110	-0.0010	0.0325	3121.92	ug/L
Br	79	1045				ug/L
Se	82	-2	-0.0139	0.2157	1550.54	ug/L
Kr	82	33				ug/L
[Kr	83	63				ug/L
[Kr	84	274				ug/L
Kr	86	188				ug/L
Sr	88	715	0.0314	0.0044	13.93	ug/L
[> Y	89	772563				ug/L
[Mo	98	17	-0.0124	0.0010	8.39	ug/L
Ag	107	42	-0.0099	0.0027	26.67	ug/L
Cd	111	457	0.0230	0.0172	74.90	ug/L
[> In	115	357634				ug/L
Sn	118	59	-0.0072	0.0063	87.81	ug/L
[Sb	121	97	0.0264	0.0040	15.16	ug/L
[Ba	135	39	0.0081	0.0191	234.86	ug/L
[> Tb	159	880347				ug/L
Tl	205	26	-0.0145	0.0016	10.87	ug/L
[Pb	208	179	-0.0272	0.0037	13.44	ug/L
Bi	209	507127				ug/L

Sample ID: MB 480-138619/13-B

Report Date/Time: Friday, September 13, 2013 11:35:57

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		104.646			
	Li	7					
	Be	9					
[>	Sc	45		101.066			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		95.123			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		95.856			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		96.482			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		96.361			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: LCS 480-138619/14-B

Sample Date/Time: Thursday, September 12, 2013 18:14:08

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

	Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[>	Li-6	6	278915				ug/L
	Li	7	53864	19.9021	0.7257	3.65	ug/L
	Be	9	9581	19.7219	0.7024	3.56	ug/L
[>	Sc	45	187373				ug/L
	V	51	77345	21.4649	0.0452	0.21	ug/L
	Cr	52	68254	21.5666	0.6957	3.23	ug/L
	Mn	55	98896	20.0849	0.3666	1.83	ug/L
[	Co	59	67476	20.6375	0.0565	0.27	ug/L
	Ni	60	13572	20.4638	0.1146	0.56	ug/L
	Cu	63	30040	20.2787	0.3299	1.63	ug/L
	Zn	66	24823	51.5515	1.0535	2.04	ug/L
[>	Ge	72	115523				ug/L
	As	75	10646	19.5927	0.5403	2.76	ug/L
	Br	79	828				ug/L
	Se	82	982	19.0866	0.4072	2.13	ug/L
	Kr	82	164				ug/L
	Kr	83	62				ug/L
[	Kr	84	218				ug/L
	Kr	86	12637				ug/L
	Sr	88	121252	20.0389	0.3653	1.82	ug/L
[>	Y	89	755860				ug/L
[	Mo	98	31480	20.1739	0.1833	0.91	ug/L
	Ag	107	44597	20.1725	0.1225	0.61	ug/L
	Cd	111	11792	19.8953	0.3706	1.86	ug/L
[>	In	115	344951				ug/L
	Sn	118	32940	20.0134	0.3716	1.86	ug/L
	Sb	121	42908	20.5128	0.4078	1.99	ug/L
[	Ba	135	9673	19.6953	0.1770	0.90	ug/L
[>	Tb	159	857160				ug/L
	Tl	205	85955	20.1782	0.1782	0.88	ug/L
	Pb	208	117958	19.8205	0.0582	0.29	ug/L
	Bi	209	491924				ug/L

Sample ID: LCS 480-138619/14-B

Report Date/Time: Friday, September 13, 2013 11:35:59

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		105.017			
	Li	7					
	Be	9					
[>	Sc	45		94.049			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		92.482			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		93.784			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		93.060			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		93.823			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: 680-93997-A-1-A

Sample Date/Time: Thursday, September 12, 2013 18:19:42

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	269865				ug/L
Li	7	15358	0.1797	0.1509	83.98	ug/L
Be	9	30	0.0342	0.0442	129.42	ug/L
[> Sc	45	186390				ug/L
V	51	1137	0.0918	0.0610	66.46	ug/L
Cr	52	3577	0.2573	0.0493	19.17	ug/L
Mn	55	2712	-0.5191	0.0690	13.29	ug/L
[Co	59	222	0.0413	0.0424	102.77	ug/L
Ni	60	91	0.0731	0.0396	54.09	ug/L
Cu	63	423	0.1107	0.0434	39.19	ug/L
Zn	66	2670	5.3097	0.1352	2.55	ug/L
[> Ge	72	115424				ug/L
As	75	177	0.1291	0.0284	21.98	ug/L
Br	79	795				ug/L
Se	82	6	0.1508	0.1596	105.81	ug/L
Kr	82	35				ug/L
Kr	83	64				ug/L
[Kr	84	283				ug/L
Kr	86	372				ug/L
Sr	88	2563	0.3452	0.0357	10.33	ug/L
[> Y	89	746272				ug/L
[Mo	98	117	0.0521	0.0380	73.00	ug/L
Ag	107	178	0.0522	0.0394	75.44	ug/L
Cd	111	460	0.0603	0.0777	128.77	ug/L
[> In	115	342780				ug/L
Sn	118	249	0.1098	0.0394	35.91	ug/L
Sb	121	536	0.2378	0.0845	35.54	ug/L
[Ba	135	191	0.3239	0.0555	17.12	ug/L
[> Tb	159	850184				ug/L
Tl	205	269	0.0431	0.0436	101.02	ug/L
Pb	208	488	0.0261	0.0399	153.24	ug/L
Bi	209	486178				ug/L

Sample ID: 680-93997-A-1-A

Report Date/Time: Friday, September 13, 2013 11:36:00

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		101.610			
	Li	7					
	Be	9					
[>	Sc	45		93.556			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		92.403			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		92.594			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		92.474			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		93.060			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: 680-93997-A-1-A SD@5

Sample Date/Time: Thursday, September 12, 2013 18:25:12

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	263747				ug/L
Li	7	15143	0.2516	0.0675	26.83	ug/L
Be	9	5	-0.0187	0.0022	11.58	ug/L
[> Sc	45	181527				ug/L
V	51	999	0.0608	0.0180	29.57	ug/L
Cr	52	3089	0.1234	0.0118	9.59	ug/L
Mn	55	5296	0.0688	0.0132	19.22	ug/L
[Cr	59	54	-0.0096	0.0009	9.09	ug/L
Ni	60	114	0.1117	0.0192	17.22	ug/L
Cu	63	293	0.0252	0.0163	64.50	ug/L
Zn	66	674	1.1594	0.0410	3.54	ug/L
[> Ge	72	113895				ug/L
As	75	131	0.0471	0.0288	61.05	ug/L
Br	79	648				ug/L
Se	82	-5	-0.0700	0.3031	432.72	ug/L
Kr	82	33				ug/L
Kr	83	64				ug/L
[Kr	84	294				ug/L
Kr	86	374				ug/L
Sr	88	2557	0.3391	0.0059	1.75	ug/L
[> Y	89	756940				ug/L
[Mo	98	17	-0.0119	0.0004	3.24	ug/L
Ag	107	37	-0.0111	0.0026	23.29	ug/L
Cd	111	430	0.0108	0.0179	166.45	ug/L
[> In	115	341817				ug/L
Sn	118	64	-0.0029	0.0011	36.65	ug/L
Sb	121	126	0.0426	0.0051	12.03	ug/L
[Ba	135	124	0.1845	0.0211	11.42	ug/L
[> Tb	159	857812				ug/L
Tl	205	19	-0.0157	0.0008	5.26	ug/L
Pb	208	329	-0.0013	0.0033	257.00	ug/L
Bi	209	489238				ug/L

Sample ID: 680-93997-A-1-A SD@5

Report Date/Time: Friday, September 13, 2013 11:36:02

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		99.306			
	Li	7					
	Be	9					
[>	Sc	45		91.115			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		91.179			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		93.918			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		92.215			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		93.895			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: 680-93997-A-1-A PDS

Sample Date/Time: Thursday, September 12, 2013 18:30:38

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	269973				ug/L
Li	7	55677	21.7978	0.1706	0.78	ug/L
Be	9	9952	21.1607	0.5385	2.54	ug/L
[> Sc	45	181394				ug/L
V	51	78495	22.5143	0.4155	1.85	ug/L
Cr	52	69544	22.7543	0.5808	2.55	ug/L
Mn	55	100096	21.0552	0.5563	2.64	ug/L
[Cr	59	70067	21.7781	0.1000	0.46	ug/L
Ni	60	13921	21.3281	0.3284	1.54	ug/L
Cu	63	30953	21.2467	0.2407	1.13	ug/L
Zn	66	27385	57.8223	0.7502	1.30	ug/L
[> Ge	72	113681				ug/L
As	75	11147	20.8643	0.7265	3.48	ug/L
Br	79	699				ug/L
Se	82	1007	19.8835	0.1378	0.69	ug/L
Kr	82	130				ug/L
Kr	83	63				ug/L
[Kr	84	220				ug/L
Kr	86	13208				ug/L
Sr	88	126641	21.3840	0.1113	0.52	ug/L
[> Y	89	739902				ug/L
[Mo	98	31972	20.7800	0.5372	2.59	ug/L
Ag	107	45291	20.7792	0.4836	2.33	ug/L
Cd	111	12057	20.6556	0.1354	0.66	ug/L
[> In	115	340212				ug/L
Sn	118	33481	20.6269	0.4910	2.38	ug/L
Sb	121	44037	21.3512	0.5656	2.65	ug/L
[Ba	135	9934	20.5858	0.3211	1.56	ug/L
[> Tb	159	842303				ug/L
Tl	205	87074	20.8062	0.4933	2.37	ug/L
Pb	208	120517	20.6128	0.3697	1.79	ug/L
Bi	209	482899				ug/L

Sample ID: 680-93997-A-1-A PDS

Report Date/Time: Friday, September 13, 2013 11:36:03

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		101.650			
	Li	7					
	Be	9					
[>	Sc	45		91.048			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		91.008			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		91.803			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		91.782			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		92.197			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: 680-93997-A-1-B MS

Sample Date/Time: Thursday, September 12, 2013 18:36:06

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	275309				ug/L
Li	7	54715	20.7266	1.1357	5.48	ug/L
Be	9	9785	20.4062	0.3708	1.82	ug/L
[> Sc	45	182560				ug/L
V	51	77024	21.9511	0.4846	2.21	ug/L
Cr	52	67955	22.0680	0.4738	2.15	ug/L
Mn	55	97817	20.4149	0.5460	2.67	ug/L
[Co	59	67988	21.4083	0.2037	0.95	ug/L
Ni	60	13569	21.0689	0.7125	3.38	ug/L
Cu	63	30483	21.2001	0.5368	2.53	ug/L
Zn	66	26690	57.0978	0.9124	1.60	ug/L
[> Ge	72	112234				ug/L
As	75	10734	20.3437	0.3368	1.66	ug/L
Br	79	675				ug/L
Se	82	1007	20.1439	0.5045	2.50	ug/L
Kr	82	151				ug/L
Kr	83	60				ug/L
[Kr	84	230				ug/L
Kr	86	13053				ug/L
Sr	88	123392	20.8105	0.3257	1.57	ug/L
[> Y	89	740729				ug/L
[Mo	98	31677	20.8648	0.5308	2.54	ug/L
Ag	107	44136	20.5148	0.3538	1.72	ug/L
Cd	111	11565	20.0566	0.2104	1.05	ug/L
[> In	115	335735				ug/L
Sn	118	32972	20.5869	0.3872	1.88	ug/L
Sb	121	43779	21.5079	0.3989	1.85	ug/L
[Ba	135	9849	20.2872	0.2342	1.15	ug/L
[> Tb	159	847260				ug/L
Tl	205	87690	20.8258	0.0820	0.39	ug/L
Pb	208	120423	20.4724	0.1468	0.72	ug/L
Bi	209	482484				ug/L

Sample ID: 680-93997-A-1-B MS

Report Date/Time: Friday, September 13, 2013 11:36:04

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		103.659			
	Li	7					
	Be	9					
[>	Sc	45		91.633			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		89.849			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		91.906			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		90.574			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		92.740			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: 680-93997-A-1-C MSD

Sample Date/Time: Thursday, September 12, 2013 18:41:33

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	273859				ug/L
Li	7	53894	20.4327	0.4668	2.28	ug/L
Be	9	9734	20.4021	0.4268	2.09	ug/L
[> Sc	45	180769				ug/L
V	51	75814	21.8146	0.5307	2.43	ug/L
Cr	52	67022	21.9740	0.5918	2.69	ug/L
Mn	55	98117	20.6850	0.4746	2.29	ug/L
[Co	59	66972	21.0935	0.4085	1.94	ug/L
Ni	60	13600	21.1160	0.5463	2.59	ug/L
Cu	63	30241	21.0334	0.1581	0.75	ug/L
Zn	66	26994	57.7612	0.7945	1.38	ug/L
[> Ge	72	112172				ug/L
As	75	10774	20.4274	0.1803	0.88	ug/L
Br	79	664				ug/L
Se	82	966	19.3313	1.2667	6.55	ug/L
Kr	82	126				ug/L
Kr	83	58				ug/L
[Kr	84	230				ug/L
Kr	86	12803				ug/L
Sr	88	124135	21.0946	0.3128	1.48	ug/L
[> Y	89	735398				ug/L
[Mo	98	31371	20.5314	0.3509	1.71	ug/L
Ag	107	43819	20.2457	0.1694	0.84	ug/L
Cd	111	11701	20.1759	0.3933	1.95	ug/L
[> In	115	337726				ug/L
Sn	118	33155	20.5754	0.0445	0.22	ug/L
Sb	121	43775	21.3740	0.1775	0.83	ug/L
[Ba	135	9686	19.9916	0.0350	0.18	ug/L
[> Tb	159	845617				ug/L
Tl	205	87324	20.7779	0.0445	0.21	ug/L
Pb	208	119965	20.4350	0.1790	0.88	ug/L
Bi	209	488428				ug/L

Sample ID: 680-93997-A-1-C MSD

Report Date/Time: Friday, September 13, 2013 11:36:06

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		103.113			
	Li	7					
	Be	9					
[>	Sc	45		90.734			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		89.799			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		91.245			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		91.111			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		92.560			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: rinse

Sample Date/Time: Thursday, September 12, 2013 18:47:01

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	255214				ug/L
Li	7	14279	0.0389	0.0289	74.25	ug/L
Be	9	16	0.0068	0.0162	239.10	ug/L
[> Sc	45	173857				ug/L
V	51	907	0.0459	0.0111	24.10	ug/L
Cr	52	2945	0.1188	0.0089	7.47	ug/L
Mn	55	5627	0.1967	0.0120	6.09	ug/L
[Cr	59	111	0.0093	0.0127	136.00	ug/L
Ni	60	80	0.0631	0.0184	29.21	ug/L
Cu	63	311	0.0448	0.0045	10.10	ug/L
Zn	66	263	0.3062	0.0624	20.38	ug/L
[> Ge	72	110270				ug/L
As	75	186	0.1616	0.0402	24.89	ug/L
Br	79	572				ug/L
Se	82	1	0.0533	0.1875	351.81	ug/L
Kr	82	30				ug/L
Kr	83	63				ug/L
[Kr	84	285				ug/L
Kr	86	159				ug/L
Sr	88	468	-0.0050	0.0113	226.35	ug/L
[> Y	89	736035				ug/L
[Mo	98	47	0.0081	0.0099	122.56	ug/L
Ag	107	95	0.0162	0.0165	102.18	ug/L
Cd	111	416	0.0016	0.0634	4084.48	ug/L
[> In	115	334602				ug/L
Sn	118	124	0.0360	0.0177	49.17	ug/L
Sb	121	453	0.2051	0.0450	21.93	ug/L
[Ba	135	58	0.0517	0.0152	29.36	ug/L
[> Tb	159	835477				ug/L
Tl	205	128	0.0104	0.0135	129.62	ug/L
Pb	208	412	0.0146	0.0146	100.52	ug/L
Bi	209	482968				ug/L

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:36:07

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		96.093			
	Li	7					
	Be	9					
[>	Sc	45		87.265			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		88.277			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		91.324			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		90.268			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		91.450			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:36:07

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ICP-MS Report

Sample ID: 480-45431-A-1-B

Sample Date/Time: Thursday, September 12, 2013 18:53:30

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	255481				ug/L
Li	7	86016	40.6948	1.5879	3.90	ug/L
Be	9	11	-0.0053	0.0087	163.81	ug/L
[> Sc	45	181505				ug/L
V	51	801	0.0041	0.0396	977.50	ug/L
Cr	52	3396	0.2293	0.0719	31.36	ug/L
Mn	55	67564	13.8486	0.4011	2.90	ug/L
[Cr	59	383	0.0963	0.0053	5.52	ug/L
Ni	60	1168	1.7843	0.0853	4.78	ug/L
Cu	63	1561	0.9349	0.0294	3.15	ug/L
Zn	66	1756	3.5661	0.0827	2.32	ug/L
[> Ge	72	110436				ug/L
As	75	799	1.3542	0.0519	3.84	ug/L
Br	79	120293				ug/L
Se	82	-23	-0.4353	0.2563	58.88	ug/L
Kr	82	130				ug/L
Kr	83	63				ug/L
[Kr	84	-125640				ug/L
Kr	86	9276536				ug/L
Sr	88	88301928	15704.1091	157.6765	1.00	ug/L
[> Y	89	705354				ug/L
[Mo	98	70465	48.1758	1.2859	2.67	ug/L
Ag	107	71	0.0061	0.0048	80.05	ug/L
Cd	111	398	-0.0078	0.0828	1061.68	ug/L
[> In	115	323593				ug/L
Sn	118	231	0.1082	0.0086	7.96	ug/L
Sb	121	297	0.1333	0.0274	20.59	ug/L
[Ba	135	13681	29.2975	0.3917	1.34	ug/L
[> Tb	159	815915				ug/L
Tl	205	37	-0.0112	0.0054	48.36	ug/L
Pb	208	257	-0.0112	0.0040	35.83	ug/L
Bi	209	443714				ug/L

Sample ID: 480-45431-A-1-B

Report Date/Time: Friday, September 13, 2013 11:36:08

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		96.193			
	Li	7					
	Be	9					
[>	Sc	45		91.104			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		88.410			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		87.517			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		87.298			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		89.309			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Sr 88 Upper, S, EEE	Sr	88	

ICP-MS Report

Sample ID: rinse

Sample Date/Time: Thursday, September 12, 2013 18:59:59

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	272311				ug/L
Li	7	15469	0.1635	0.0388	23.70	ug/L
Be	9	5	-0.0200	0.0025	12.56	ug/L
[> Sc	45	188474				ug/L
V	51	1119	0.0835	0.0100	12.00	ug/L
Cr	52	3553	0.2370	0.0092	3.88	ug/L
Mn	55	5533	0.0758	0.0224	29.59	ug/L
[Cr	59	42	-0.0138	0.0036	26.13	ug/L
Ni	60	55	0.0187	0.0057	30.46	ug/L
Cu	63	276	0.0091	0.0074	81.53	ug/L
Zn	66	176	0.0961	0.0147	15.26	ug/L
[> Ge	72	116847				ug/L
As	75	129	0.0365	0.0598	164.08	ug/L
Br	79	1667				ug/L
Se	82	-2	-0.0045	0.2271	4994.37	ug/L
Kr	82	37				ug/L
Kr	83	59				ug/L
[Kr	84	272				ug/L
Kr	86	4575				ug/L
Sr	88	42734	7.0677	0.8547	12.09	ug/L
[> Y	89	748435				ug/L
[Mo	98	60	0.0158	0.0038	23.91	ug/L
Ag	107	36	-0.0117	0.0042	35.91	ug/L
Cd	111	425	-0.0048	0.0145	303.47	ug/L
[> In	115	344956				ug/L
Sn	118	51	-0.0110	0.0029	25.86	ug/L
Sb	121	124	0.0412	0.0061	14.71	ug/L
[Ba	135	37	0.0075	0.0108	144.71	ug/L
[> Tb	159	848312				ug/L
Tl	205	26	-0.0141	0.0010	7.35	ug/L
Pb	208	270	-0.0107	0.0011	10.40	ug/L
Bi	209	489880				ug/L

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:36:10

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		102.530			
	Li	7					
	Be	9					
[>	Sc	45		94.601			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		93.543			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		92.862			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		93.061			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		92.855			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:36:10

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ICP-MS Report

Sample ID: CCV-1582170

Sample Date/Time: Thursday, September 12, 2013 19:06:31

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	272446				ug/L
Li	7	62770	25.3006	0.5187	2.05	ug/L
Be	9	11579	24.4095	0.7937	3.25	ug/L
[> Sc	45	175169				ug/L
V	51	88933	26.4516	0.6263	2.37	ug/L
Cr	52	76521	26.0514	0.5271	2.02	ug/L
Mn	55	120959	26.6179	0.1292	0.49	ug/L
[Cr	59	79821	25.2956	0.3391	1.34	ug/L
Ni	60	16344	25.5444	0.4725	1.85	ug/L
Cu	63	35784	25.0707	0.5886	2.35	ug/L
Zn	66	11701	25.0348	0.3566	1.42	ug/L
[> Ge	72	111510				ug/L
As	75	13012	24.8637	0.4127	1.66	ug/L
Br	79	1017				ug/L
Se	82	1252	25.2138	0.6629	2.63	ug/L
Kr	82	198				ug/L
Kr	83	69				ug/L
[Kr	84	228				ug/L
Kr	86	21393				ug/L
Sr	88	203047	35.0135	3.4244	9.78	ug/L
[> Y	89	726858				ug/L
[Mo	98	37565	24.0913	0.3322	1.38	ug/L
Ag	107	53557	24.2441	0.7220	2.98	ug/L
Cd	111	14442	24.5573	0.3237	1.32	ug/L
[> In	115	344709				ug/L
Sn	118	40440	24.6006	0.3245	1.32	ug/L
Sb	121	51309	24.5521	0.3879	1.58	ug/L
[Ba	135	11783	24.3935	0.2336	0.96	ug/L
[> Tb	159	843669				ug/L
Tl	205	105759	25.2308	0.2361	0.94	ug/L
Pb	208	146354	25.0007	0.2174	0.87	ug/L
Bi	209	492619				ug/L

Sample ID: CCV-1582170

Report Date/Time: Friday, September 13, 2013 11:36:11

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		102.581			
	Li	7	101.202				
	Be	9	97.638				
[>	Sc	45		87.924			
	V	51	105.806				
	Cr	52	104.205				
	Mn	55	106.472				
	Co	59	101.182				
	Ni	60	102.178				
	Cu	63	100.283				
	Zn	66	100.139				
>	Ge	72		89.269			
	As	75	99.455				
	Br	79					
	Se	82	100.855				
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88	140.054				
>	Y	89		90.185			
	Mo	98	96.365				
	Ag	107	96.977				
	Cd	111	98.229				
>	In	115		92.995			
	Sn	118	98.403				
	Sb	121	98.208				
	Ba	135	97.574				
>	Tb	159		92.347			
	Tl	205	100.923				
	Pb	208	100.003				
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 6	Sr	88	CCV is out of limits

ICP-MS Report

Sample ID: CCB-1540064

Sample Date/Time: Thursday, September 12, 2013 19:13:06

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	273112				ug/L
Li	7	15009	-0.1043	0.1771	169.71	ug/L
Be	9	11	-0.0064	0.0022	34.25	ug/L
[> Sc	45	181628				ug/L
V	51	945	0.0453	0.0118	26.15	ug/L
Cr	52	3100	0.1267	0.0174	13.73	ug/L
Mn	55	5259	0.0600	0.0169	28.10	ug/L
[Co	59	83	-0.0001	0.0054	5932.58	ug/L
Ni	60	39	-0.0038	0.0037	96.64	ug/L
Cu	63	259	0.0047	0.0056	119.26	ug/L
Zn	66	116	-0.0191	0.0157	82.16	ug/L
[> Ge	72	112230				ug/L
As	75	115	0.0197	0.0366	186.10	ug/L
Br	79	749				ug/L
Se	82	1	0.0381	0.0742	194.42	ug/L
Kr	82	36				ug/L
Kr	83	66				ug/L
[Kr	84	279				ug/L
Kr	86	696				ug/L
Sr	88	5803	0.9069	0.3479	38.36	ug/L
[> Y	89	736107				ug/L
[Mo	98	48	0.0086	0.0049	56.52	ug/L
Ag	107	64	0.0018	0.0052	291.32	ug/L
Cd	111	450	0.0575	0.0329	57.19	ug/L
[> In	115	336780				ug/L
Sn	118	59	-0.0054	0.0079	145.76	ug/L
Sb	121	355	0.1554	0.0402	25.89	ug/L
[Ba	135	32	-0.0040	0.0009	22.96	ug/L
[> Tb	159	850332				ug/L
Tl	205	95	0.0022	0.0058	260.67	ug/L
Pb	208	323	-0.0018	0.0041	231.67	ug/L
Bi	209	496477				ug/L

Sample ID: CCB-1540064

Report Date/Time: Friday, September 13, 2013 11:36:13

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		102.832			
	Li	7					
	Be	9					
[>	Sc	45		91.165			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	72		89.846			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
>	Y	89		91.333			
	Mo	98					
	Ag	107					
	Cd	111					
>	In	115		90.856			
	Sn	118					
	Sb	121					
	Ba	135					
>	Tb	159		93.076			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
QC Std 7	Sr	88	CCB is out of limits

ICP-MS Report

Sample ID: 480-45585-B-13-B

Sample Date/Time: Thursday, September 12, 2013 19:18:39

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	265572				ug/L
Li	7	55903	22.4115	0.4571	2.04	ug/L
Be	9	18	0.0102	0.0188	184.28	ug/L
[> Sc	45	184904				ug/L
V	51	1149	0.0983	0.0085	8.63	ug/L
Cr	52	3308	0.1775	0.0145	8.16	ug/L
Mn	55	113621	23.5682	0.6862	2.91	ug/L
[Cr	59	561	0.1610	0.0092	5.69	ug/L
Ni	60	1878	3.0379	0.0838	2.76	ug/L
Cu	63	530	0.2168	0.0200	9.20	ug/L
Zn	66	1183	2.4289	0.0305	1.26	ug/L
[> Ge	72	105803				ug/L
As	75	724	1.2674	0.1195	9.43	ug/L
Br	79	5858				ug/L
Se	82	5	0.1256	0.2235	177.87	ug/L
Kr	82	26				ug/L
Kr	83	54				ug/L
[Kr	84	-18800				ug/L
Kr	86	1220601				ug/L
Sr	88	15303285	2801.1892	35.4654	1.27	ug/L
[> Y	89	685223				ug/L
[Mo	98	9364	6.4750	0.0600	0.93	ug/L
Ag	107	95	0.0182	0.0189	104.09	ug/L
Cd	111	415	0.0351	0.0740	210.84	ug/L
[> In	115	318920				ug/L
Sn	118	96	0.0211	0.0162	76.57	ug/L
Sb	121	291	0.1321	0.0320	24.25	ug/L
[Ba	135	46292	100.9904	2.0008	1.98	ug/L
[> Tb	159	802383				ug/L
Tl	205	132	0.0125	0.0220	175.38	ug/L
Pb	208	381	0.0118	0.0193	163.97	ug/L
Bi	209	453881				ug/L

Sample ID: 480-45585-B-13-B

Report Date/Time: Friday, September 13, 2013 11:36:14

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		99.993			
	Li	7					
	Be	9					
[>	Sc	45		92.810			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	72		84.701			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
>	Y	89		85.019			
	Mo	98					
	Ag	107					
	Cd	111					
>	In	115		86.038			
	Sn	118					
	Sb	121					
	Ba	135					
>	Tb	159		87.828			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Sr 88 Upper, S, EEE	Sr	88	

ICP-MS Report

Sample ID: 480-45585-B-14-B

Sample Date/Time: Thursday, September 12, 2013 19:24:09

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	254550				ug/L
Li	7	28833	8.3378	0.3410	4.09	ug/L
[Be	9	8	-0.0122	0.0053	42.97	ug/L
[> Sc	45	182108				ug/L
V	51	1149	0.1033	0.0249	24.05	ug/L
Cr	52	3065	0.1123	0.0217	19.33	ug/L
[Mn	55	65322	13.2983	0.1674	1.26	ug/L
[Co	59	437	0.1211	0.0029	2.39	ug/L
Ni	60	925	1.4778	0.0386	2.61	ug/L
Cu	63	270	0.0256	0.0138	53.86	ug/L
Zn	66	1135	2.3434	0.0788	3.36	ug/L
[> Ge	72	104857				ug/L
As	75	1580	3.0346	0.0274	0.90	ug/L
Br	79	2911				ug/L
Se	82	12	0.2896	0.1567	54.09	ug/L
Kr	82	37				ug/L
[Kr	83	52				ug/L
[Kr	84	-6578				ug/L
Kr	86	528754				ug/L
Sr	88	5992745	1130.7698	3.5171	0.31	ug/L
[> Y	89	664774				ug/L
[Mo	98	11858	8.3961	0.1992	2.37	ug/L
Ag	107	46	-0.0051	0.0024	46.48	ug/L
Cd	111	353	-0.0648	0.0450	69.32	ug/L
[> In	115	311778				ug/L
Sn	118	61	-0.0006	0.0012	201.71	ug/L
[Sb	121	141	0.0563	0.0055	9.77	ug/L
[Ba	135	40021	88.1531	1.0900	1.24	ug/L
[> Tb	159	794613				ug/L
Tl	205	22	-0.0148	0.0011	7.56	ug/L
[Pb	208	197	-0.0208	0.0033	15.82	ug/L
Bi	209	456358				ug/L

Sample ID: 480-45585-B-14-B

Report Date/Time: Friday, September 13, 2013 11:36:15

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		95.843			
	Li	7					
	Be	9					
[>	Sc	45		91.406			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		83.944			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		82.482			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		84.111			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		86.977			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Sr 88 Upper, S, EEE	Sr	88	

ICP-MS Report

Sample ID: 480-45585-B-15-B

Sample Date/Time: Thursday, September 12, 2013 19:29:40

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	260890				ug/L
Li	7	25381	6.0226	0.1307	2.17	ug/L
Be	9	7	-0.0146	0.0040	27.20	ug/L
[> Sc	45	181200				ug/L
V	51	926	0.0404	0.0238	58.92	ug/L
Cr	52	3012	0.0988	0.0339	34.31	ug/L
Mn	55	191945	41.4130	0.9220	2.23	ug/L
[Cr	59	683	0.2064	0.0030	1.43	ug/L
Ni	60	1127	1.8323	0.0627	3.42	ug/L
Cu	63	390	0.1186	0.0095	8.00	ug/L
Zn	66	1329	2.8192	0.0831	2.95	ug/L
[> Ge	72	103820				ug/L
As	75	3368	6.7666	0.1261	1.86	ug/L
Br	79	6795				ug/L
Se	82	3	0.0864	0.2790	322.84	ug/L
Kr	82	8				ug/L
Kr	83	54				ug/L
[Kr	84	-4722				ug/L
Kr	86	383582				ug/L
Sr	88	4348871	812.9343	13.5255	1.66	ug/L
[> Y	89	671052				ug/L
[Mo	98	6167	4.3604	0.1587	3.64	ug/L
Ag	107	40	-0.0081	0.0024	30.02	ug/L
Cd	111	355	-0.0607	0.0497	81.98	ug/L
[> In	115	311582				ug/L
Sn	118	66	0.0027	0.0006	23.21	ug/L
Sb	121	97	0.0331	0.0054	16.39	ug/L
[Ba	135	54081	117.7006	1.5003	1.27	ug/L
[> Tb	159	804369				ug/L
Tl	205	15	-0.0166	0.0012	6.99	ug/L
Pb	208	166	-0.0269	0.0009	3.21	ug/L
Bi	209	462130				ug/L

Sample ID: 480-45585-B-15-B

Report Date/Time: Friday, September 13, 2013 11:36:17

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		98.230			
	Li	7					
	Be	9					
[>	Sc	45		90.950			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		83.114			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		83.261			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		84.058			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		88.045			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 480-45585-B-15-B

Report Date/Time: Friday, September 13, 2013 11:36:17

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ICP-MS Report

Sample ID: rinse

Sample Date/Time: Thursday, September 12, 2013 19:35:11

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	272336				ug/L
Li	7	14884	-0.1436	0.2659	185.18	ug/L
Be	9	5	-0.0185	0.0027	14.60	ug/L
[> Sc	45	178855				ug/L
V	51	988	0.0622	0.0244	39.23	ug/L
Cr	52	3249	0.1946	0.0160	8.22	ug/L
Mn	55	5511	0.1347	0.0229	16.99	ug/L
[Cr	59	43	-0.0125	0.0014	10.82	ug/L
Ni	60	151	0.1748	0.0138	7.89	ug/L
Cu	63	398	0.1064	0.0033	3.11	ug/L
Zn	66	254	0.2871	0.0706	24.59	ug/L
[> Ge	72	110498				ug/L
As	75	124	0.0406	0.0437	107.58	ug/L
Br	79	633				ug/L
Se	82	-1	-0.0008	0.2458	31421.30	ug/L
Kr	82	32				ug/L
Kr	83	55				ug/L
[Kr	84	275				ug/L
Kr	86	451				ug/L
Sr	88	3365	0.5038	0.1205	23.92	ug/L
[> Y	89	715724				ug/L
[Mo	98	23	-0.0075	0.0018	23.91	ug/L
Ag	107	43	-0.0078	0.0055	70.02	ug/L
Cd	111	425	0.0179	0.0250	139.82	ug/L
[> In	115	334559				ug/L
Sn	118	58	-0.0054	0.0033	61.24	ug/L
Sb	121	100	0.0311	0.0016	5.09	ug/L
[Ba	135	75	0.0899	0.0196	21.84	ug/L
[> Tb	159	828963				ug/L
Tl	205	22	-0.0150	0.0011	7.57	ug/L
Pb	208	290	-0.0061	0.0035	57.80	ug/L
Bi	209	488126				ug/L

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:36:18

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		102.540			
	Li	7					
	Be	9					
[>	Sc	45		89.774			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		88.460			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		88.804			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		90.257			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		90.737			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:36:18

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ICP-MS Report

Sample ID: MB 480-137635/17-B

Sample Date/Time: Thursday, September 12, 2013 19:43:42

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	279343				ug/L
Li	7	15794	0.1244	0.1384	111.31	ug/L
[Be	9	5	-0.0193	0.0015	7.96	ug/L
[> Sc	45	181631				ug/L
V	51	1032	0.0705	0.0184	26.08	ug/L
Cr	52	3386	0.2242	0.0060	2.70	ug/L
[Mn	55	2154	-0.6267	0.0129	2.06	ug/L
[Co	59	37	-0.0146	0.0023	15.52	ug/L
Ni	60	38	-0.0038	0.0049	128.44	ug/L
Cu	63	205	-0.0308	0.0025	7.99	ug/L
Zn	66	432	0.6758	0.0299	4.43	ug/L
[> Ge	72	110310				ug/L
As	75	97	-0.0117	0.0445	380.34	ug/L
Br	79	624				ug/L
Se	82	-1	-0.0013	0.2868	21996.79	ug/L
Kr	82	32				ug/L
[Kr	83	57				ug/L
[Kr	84	276				ug/L
Kr	86	578				ug/L
Sr	88	4615	0.7063	0.6000	84.94	ug/L
[> Y	89	728599				ug/L
[Mo	98	15	-0.0131	0.0030	22.75	ug/L
Ag	107	33	-0.0126	0.0042	33.11	ug/L
Cd	111	454	0.0691	0.0264	38.23	ug/L
[> In	115	335178				ug/L
Sn	118	46	-0.0131	0.0040	30.69	ug/L
[Sb	121	62	0.0122	0.0018	14.49	ug/L
[Ba	135	84	0.1040	0.0979	94.11	ug/L
[> Tb	159	849130				ug/L
Tl	205	16	-0.0164	0.0005	2.86	ug/L
[Pb	208	137	-0.0334	0.0009	2.67	ug/L
Bi	209	486896				ug/L

Sample ID: MB 480-137635/17-B

Report Date/Time: Friday, September 13, 2013 11:36:19

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		105.178			
	Li	7					
	Be	9					
[>	Sc	45		91.167			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	72		88.309			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
>	Y	89		90.401			
	Mo	98					
	Ag	107					
	Cd	111					
>	In	115		90.424			
	Sn	118					
	Sb	121					
	Ba	135					
>	Tb	159		92.945			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: LCS 480-137635/18-B

Sample Date/Time: Thursday, September 12, 2013 19:49:14

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	280259				ug/L
Li	7	56034	20.8974	0.7097	3.40	ug/L
Be	9	9892	20.2607	0.5818	2.87	ug/L
[> Sc	45	181851				ug/L
V	51	74604	21.3381	0.5907	2.77	ug/L
Cr	52	65923	21.4670	0.6641	3.09	ug/L
Mn	55	94901	19.8540	0.7798	3.93	ug/L
[Co	59	66215	21.7235	0.5832	2.68	ug/L
Ni	60	13274	21.4683	0.5856	2.73	ug/L
Cu	63	29977	21.7169	0.2475	1.14	ug/L
Zn	66	24060	53.5830	0.7996	1.49	ug/L
[> Ge	72	107731				ug/L
As	75	10384	20.4996	0.1594	0.78	ug/L
Br	79	593				ug/L
Se	82	977	20.3571	0.3196	1.57	ug/L
Kr	82	142				ug/L
Kr	83	53				ug/L
[Kr	84	193				ug/L
Kr	86	12646				ug/L
Sr	88	121301	21.3994	0.1873	0.88	ug/L
[> Y	89	708237				ug/L
[Mo	98	30830	20.4790	0.6687	3.27	ug/L
Ag	107	42945	20.1392	0.8679	4.31	ug/L
Cd	111	11594	20.2818	0.2344	1.16	ug/L
[> In	115	332986				ug/L
Sn	118	32251	20.2959	0.1710	0.84	ug/L
Sb	121	42328	20.9670	0.3325	1.59	ug/L
[Ba	135	9382	19.6767	0.2069	1.05	ug/L
[> Tb	159	832208				ug/L
Tl	205	86008	20.8021	0.4470	2.15	ug/L
Pb	208	117527	20.3449	0.2117	1.04	ug/L
Bi	209	477684				ug/L

Sample ID: LCS 480-137635/18-B

Report Date/Time: Friday, September 13, 2013 11:36:21

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		105.523			
	Li	7					
	Be	9					
[>	Sc	45		91.277			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		86.244			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		87.875			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		89.832			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		91.092			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: 480-45529-B-1-B

Sample Date/Time: Thursday, September 12, 2013 19:54:46

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	253395				ug/L
Li	7	33556	11.1095	0.1808	1.63	ug/L
Be	9	22	0.0188	0.0459	244.59	ug/L
[> Sc	45	181645				ug/L
V	51	1774	0.2848	0.0310	10.90	ug/L
Cr	52	3193	0.1581	0.0430	27.22	ug/L
Mn	55	377591	82.3793	1.3390	1.63	ug/L
[Cr	59	1673	0.5494	0.0526	9.58	ug/L
Ni	60	1738	2.8916	0.0995	3.44	ug/L
Cu	63	332	0.0765	0.0659	86.24	ug/L
Zn	66	1152	2.4344	0.2158	8.86	ug/L
[> Ge	72	102768				ug/L
As	75	4130	8.4293	0.0925	1.10	ug/L
Br	79	4785				ug/L
Se	82	-2	-0.0177	0.0945	532.45	ug/L
Kr	82	30				ug/L
Kr	83	53				ug/L
[Kr	84	829				ug/L
Kr	86	177355				ug/L
Sr	88	1518433	287.9091	5.4978	1.91	ug/L
[> Y	89	661541				ug/L
[Mo	98	6142	4.4075	0.1196	2.71	ug/L
Ag	107	122	0.0332	0.0483	145.66	ug/L
Cd	111	409	0.0550	0.0740	134.51	ug/L
[> In	115	306647				ug/L
Sn	118	142	0.0546	0.0361	66.12	ug/L
Sb	121	458	0.2265	0.0984	43.43	ug/L
[Ba	135	34389	76.4756	1.2766	1.67	ug/L
[> Tb	159	786827				ug/L
Tl	205	177	0.0251	0.0432	172.13	ug/L
Pb	208	433	0.0228	0.0376	164.56	ug/L
Bi	209	450677				ug/L

Sample ID: 480-45529-B-1-B

Report Date/Time: Friday, September 13, 2013 11:36:22

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		95.408			
	Li	7					
	Be	9					
[>	Sc	45		91.174			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		82.271			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		82.081			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		82.727			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		86.125			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 480-45529-B-1-B

Report Date/Time: Friday, September 13, 2013 11:36:22

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ICP-MS Report

Sample ID: 480-45529-B-2-B

Sample Date/Time: Thursday, September 12, 2013 20:00:19

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	267168				ug/L
Li	7	32766	9.6847	0.2822	2.91	ug/L
Be	9	6	-0.0169	0.0026	15.14	ug/L
[> Sc	45	211105				ug/L
V	51	3190	0.5622	0.1600	28.46	ug/L
Cr	52	5671	0.7312	0.0173	2.37	ug/L
Mn	55	36968	5.9287	0.0958	1.62	ug/L
[Cr	59	993	0.2769	0.0038	1.38	ug/L
Ni	60	4687	7.0035	0.2674	3.82	ug/L
Cu	63	4800	3.0842	0.0349	1.13	ug/L
Zn	66	4887	9.9094	0.0902	0.91	ug/L
[> Ge	72	115785				ug/L
As	75	274	0.3127	0.2341	74.87	ug/L
Br	79	30740				ug/L
Se	82	-9	-0.1542	0.3963	256.97	ug/L
Kr	82	-700				ug/L
Kr	83	72				ug/L
[Kr	84	294				ug/L
Kr	86	106342				ug/L
Sr	88	966651	159.3490	1.5490	0.97	ug/L
[> Y	89	760701				ug/L
[Mo	98	6358	4.2328	0.0567	1.34	ug/L
Ag	107	54	-0.0024	0.0028	116.34	ug/L
Cd	111	346	-0.1171	0.0682	58.27	ug/L
[> In	115	330671				ug/L
Sn	118	84	0.0112	0.0036	32.35	ug/L
Sb	121	309	0.1359	0.0075	5.49	ug/L
[Ba	135	75576	163.1156	2.9056	1.78	ug/L
[> Tb	159	811180				ug/L
Tl	205	54	-0.0068	0.0029	42.81	ug/L
Pb	208	183	-0.0241	0.0010	4.23	ug/L
Bi	209	426770				ug/L

Sample ID: 480-45529-B-2-B

Report Date/Time: Friday, September 13, 2013 11:36:24

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		100.594			
	Li	7					
	Be	9					
[>	Sc	45		105.961			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		92.692			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		94.384			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		89.208			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		88.791			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 480-45529-B-2-B

Report Date/Time: Friday, September 13, 2013 11:36:24

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ICP-MS Report

Sample ID: 480-45529-B-3-B

Sample Date/Time: Thursday, September 12, 2013 20:05:49

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	264065				ug/L
Li	7	26717	6.5906	0.2530	3.84	ug/L
Be	9	5	-0.0196	0.0068	34.89	ug/L
[> Sc	45	181144				ug/L
V	51	1287	0.1449	0.0296	20.45	ug/L
Cr	52	3468	0.2555	0.0378	14.80	ug/L
Mn	55	567319	124.6521	3.9734	3.19	ug/L
[Cr	59	1487	0.4829	0.0261	5.40	ug/L
Ni	60	2325	3.8709	0.1415	3.66	ug/L
Cu	63	609	0.2874	0.0184	6.40	ug/L
Zn	66	1423	3.0576	0.0909	2.97	ug/L
[> Ge	72	103222				ug/L
As	75	938	1.7534	0.1522	8.68	ug/L
Br	79	21865				ug/L
Se	82	-3	-0.0296	0.2652	895.84	ug/L
Kr	82	-26				ug/L
Kr	83	55				ug/L
[Kr	84	-3332				ug/L
Kr	86	275140				ug/L
Sr	88	3086153	568.7621	10.7923	1.90	ug/L
[> Y	89	680664				ug/L
[Mo	98	3818	2.7012	0.0438	1.62	ug/L
Ag	107	35	-0.0104	0.0007	6.57	ug/L
Cd	111	371	-0.0264	0.0394	149.02	ug/L
[> In	115	310233				ug/L
Sn	118	83	0.0142	0.0023	16.06	ug/L
Sb	121	118	0.0446	0.0032	7.13	ug/L
[Ba	135	52135	114.8638	0.9510	0.83	ug/L
[> Tb	159	794493				ug/L
Tl	205	21	-0.0149	0.0011	7.55	ug/L
Pb	208	224	-0.0160	0.0017	10.57	ug/L
Bi	209	454267				ug/L

Sample ID: 480-45529-B-3-B

Report Date/Time: Friday, September 13, 2013 11:36:25

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		99.425			
	Li	7					
	Be	9					
[>	Sc	45		90.922			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	72		82.634			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
>	Y	89		84.454			
	Mo	98					
	Ag	107					
	Cd	111					
>	In	115		83.694			
	Sn	118					
	Sb	121					
	Ba	135					
>	Tb	159		86.964			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 480-45529-B-3-B

Report Date/Time: Friday, September 13, 2013 11:36:25

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ICP-MS Report

Sample ID: 480-45529-B-4-B

Sample Date/Time: Thursday, September 12, 2013 20:11:15

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	260095				ug/L
Li	7	26417	6.6497	0.4960	7.46	ug/L
Be	9	4	-0.0205	0.0024	11.67	ug/L
[> Sc	45	178547				ug/L
V	51	1239	0.1363	0.0381	27.99	ug/L
Cr	52	3428	0.2583	0.0223	8.63	ug/L
Mn	55	556011	123.9115	0.8095	0.65	ug/L
[Cr	59	1512	0.4932	0.0177	3.59	ug/L
Ni	60	2198	3.6680	0.0491	1.34	ug/L
Cu	63	434	0.1545	0.0022	1.42	ug/L
Zn	66	1014	2.1068	0.0562	2.67	ug/L
[> Ge	72	102929				ug/L
As	75	916	1.7105	0.1143	6.68	ug/L
Br	79	21309				ug/L
Se	82	-5	-0.0895	0.2535	283.20	ug/L
Kr	82	-28				ug/L
Kr	83	54				ug/L
[Kr	84	-3521				ug/L
Kr	86	268758				ug/L
Sr	88	3088223	586.5210	11.7730	2.01	ug/L
[> Y	89	660523				ug/L
[Mo	98	3848	2.7308	0.0290	1.06	ug/L
Ag	107	36	-0.0098	0.0005	5.53	ug/L
Cd	111	383	-0.0011	0.0523	4668.67	ug/L
[> In	115	309301				ug/L
Sn	118	75	0.0088	0.0069	78.55	ug/L
Sb	121	101	0.0357	0.0038	10.73	ug/L
[Ba	135	51698	115.8026	1.4961	1.29	ug/L
[> Tb	159	781388				ug/L
Tl	205	18	-0.0156	0.0010	6.18	ug/L
Pb	208	176	-0.0242	0.0036	15.06	ug/L
Bi	209	446578				ug/L

Sample ID: 480-45529-B-4-B

Report Date/Time: Friday, September 13, 2013 11:36:26

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		97.931			
	Li	7					
	Be	9					
[>	Sc	45		89.619			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		82.401			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		81.955			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		83.443			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		85.530			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 480-45529-B-4-B

Report Date/Time: Friday, September 13, 2013 11:36:26

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ICP-MS Report

Sample ID: CCV-1582170

Sample Date/Time: Thursday, September 12, 2013 20:16:46

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	270308				ug/L
Li	7	60492	24.3393	0.7303	3.00	ug/L
Be	9	11260	23.9143	0.2027	0.85	ug/L
[> Sc	45	168042				ug/L
V	51	82077	25.4395	0.2700	1.06	ug/L
Cr	52	71010	25.1710	0.3624	1.44	ug/L
Mn	55	111990	25.6539	0.3547	1.38	ug/L
[Co	59	73926	25.1028	0.9325	3.71	ug/L
Ni	60	15326	25.6618	0.6887	2.68	ug/L
Cu	63	33742	25.3225	0.4436	1.75	ug/L
Zn	66	11129	25.5130	0.3906	1.53	ug/L
[> Ge	72	104126				ug/L
As	75	11841	24.2218	0.4641	1.92	ug/L
Br	79	1099				ug/L
Se	82	1117	24.0795	0.3572	1.48	ug/L
Kr	82	121				ug/L
Kr	83	59				ug/L
[Kr	84	187				ug/L
Kr	86	14232				ug/L
Sr	88	137434	25.3487	0.4361	1.72	ug/L
[> Y	89	677812				ug/L
[Mo	98	34302	24.1104	0.4918	2.04	ug/L
Ag	107	49142	24.3797	0.3497	1.43	ug/L
Cd	111	13262	24.7134	0.1842	0.75	ug/L
[> In	115	314569				ug/L
Sn	118	37099	24.7257	0.2435	0.98	ug/L
Sb	121	46850	24.5641	0.3250	1.32	ug/L
[Ba	135	10947	23.7616	0.2450	1.03	ug/L
[> Tb	159	804663				ug/L
Tl	205	101712	25.4431	0.3578	1.41	ug/L
Pb	208	140293	25.1301	0.4065	1.62	ug/L
Bi	209	472649				ug/L

Sample ID: CCV-1582170

Report Date/Time: Friday, September 13, 2013 11:36:28

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		101.776			
	Li	7	97.357				
	Be	9	95.657				
[>	Sc	45		84.346			
	V	51	101.758				
	Cr	52	100.684				
	Mn	55	102.615				
	Co	59	100.411				
	Ni	60	102.647				
	Cu	63	101.290				
	Zn	66	102.052				
[>	Ge	72		83.358			
	As	75	96.887				
	Br	79					
	Se	82	96.318				
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88	101.395				
[>	Y	89		84.100			
	Mo	98	96.442				
	Ag	107	97.519				
	Cd	111	98.854				
[>	In	115		84.864			
	Sn	118	98.903				
	Sb	121	98.256				
	Ba	135	95.046				
[>	Tb	159		88.077			
	Tl	205	101.772				
	Pb	208	100.520				
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCV-1582170

Report Date/Time: Friday, September 13, 2013 11:36:28

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ICP-MS Report

Sample ID: CCB-1540064

Sample Date/Time: Thursday, September 12, 2013 20:23:21

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	273604				ug/L
Li	7	15217	-0.0007	0.3783	53582.94	ug/L
Be	9	12	-0.0036	0.0016	45.34	ug/L
[> Sc	45	172335				ug/L
V	51	1103	0.1082	0.0057	5.30	ug/L
Cr	52	3398	0.2906	0.0361	12.44	ug/L
Mn	55	5213	0.1122	0.0463	41.29	ug/L
[Cr	59	80	-0.0004	0.0020	526.28	ug/L
Ni	60	38	-0.0036	0.0080	224.30	ug/L
Cu	63	249	0.0025	0.0088	356.01	ug/L
Zn	66	126	0.0099	0.0044	44.76	ug/L
[> Ge	72	109092				ug/L
As	75	108	0.0124	0.0052	42.29	ug/L
Br	79	790				ug/L
Se	82	-4	-0.0441	0.0828	187.47	ug/L
Kr	82	23				ug/L
Kr	83	68				ug/L
[Kr	84	278				ug/L
Kr	86	256				ug/L
Sr	88	1566	0.1935	0.2163	111.73	ug/L
[> Y	89	709397				ug/L
[Mo	98	42	0.0055	0.0076	138.82	ug/L
Ag	107	56	-0.0014	0.0029	198.97	ug/L
Cd	111	431	0.0471	0.0109	23.19	ug/L
[> In	115	326838				ug/L
Sn	118	70	0.0028	0.0041	145.13	ug/L
Sb	121	330	0.1485	0.0271	18.22	ug/L
[Ba	135	64	0.0659	0.0924	140.06	ug/L
[> Tb	159	826616				ug/L
Tl	205	83	-0.0001	0.0041	2895.63	ug/L
Pb	208	320	-0.0007	0.0019	281.71	ug/L
Bi	209	477558				ug/L

Sample ID: CCB-1540064

Report Date/Time: Friday, September 13, 2013 11:36:29

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		103.017			
	Li	7					
	Be	9					
[>	Sc	45		86.501			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		87.334			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		88.019			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		88.174			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		90.480			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCB-1540064

Report Date/Time: Friday, September 13, 2013 11:36:29

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ICP-MS Report

Sample ID: 480-45529-B-5-B

Sample Date/Time: Thursday, September 12, 2013 20:28:53

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	258729				ug/L
Li	7	26359	6.6861	0.3360	5.03	ug/L
Be	9	28	0.0334	0.0086	25.67	ug/L
[> Sc	45	178782				ug/L
V	51	3751	0.8749	0.0214	2.45	ug/L
Cr	52	3925	0.4297	0.0434	10.10	ug/L
Mn	55	150729	32.7917	1.4509	4.42	ug/L
[Cr	59	798	0.2520	0.0326	12.94	ug/L
Ni	60	714	1.1660	0.0790	6.78	ug/L
Cu	63	1406	0.9133	0.0284	3.11	ug/L
Zn	66	1625	3.5946	0.0678	1.89	ug/L
[> Ge	72	101457				ug/L
As	75	765	1.4191	0.0267	1.88	ug/L
Br	79	3321				ug/L
Se	82	-1	-0.0053	0.1649	3111.86	ug/L
Kr	82	28				ug/L
Kr	83	50				ug/L
[Kr	84	-5623				ug/L
Kr	86	430138				ug/L
Sr	88	4821765	917.5038	11.3744	1.24	ug/L
[> Y	89	659287				ug/L
[Mo	98	25703	18.5816	0.1806	0.97	ug/L
Ag	107	103	0.0245	0.0028	11.48	ug/L
Cd	111	365	-0.0284	0.0186	65.29	ug/L
[> In	115	305761				ug/L
Sn	118	410	0.2398	0.0142	5.93	ug/L
Sb	121	280	0.1329	0.0180	13.56	ug/L
[Ba	135	19249	42.5292	0.2713	0.64	ug/L
[> Tb	159	791368				ug/L
Tl	205	168	0.0226	0.0048	21.18	ug/L
Pb	208	1498	0.2167	0.0079	3.63	ug/L
Bi	209	461564				ug/L

Sample ID: 480-45529-B-5-B

Report Date/Time: Friday, September 13, 2013 11:36:30

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		97.416			
	Li	7					
	Be	9					
[>	Sc	45		89.737			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		81.221			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		81.801			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		82.487			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		86.622			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Sr 88 Upper, S, EEE	Sr	88	

ICP-MS Report

Sample ID: 480-45529-B-6-B

Sample Date/Time: Thursday, September 12, 2013 20:34:21

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	254726				ug/L
Li	7	25785	6.5948	0.1447	2.19	ug/L
Be	9	15	0.0038	0.0017	45.51	ug/L
[> Sc	45	178823				ug/L
V	51	3894	0.9161	0.0087	0.95	ug/L
Cr	52	3867	0.4080	0.0082	2.01	ug/L
Mn	55	149455	32.4502	0.1678	0.52	ug/L
[Cr	59	651	0.2042	0.0058	2.84	ug/L
Ni	60	630	1.0379	0.0546	5.26	ug/L
Cu	63	1404	0.9289	0.0151	1.62	ug/L
Zn	66	1353	2.9977	0.0295	0.99	ug/L
[> Ge	72	99901				ug/L
As	75	712	1.3305	0.0538	4.05	ug/L
Br	79	3295				ug/L
Se	82	7	0.1780	0.1619	90.98	ug/L
Kr	82	32				ug/L
Kr	83	54				ug/L
[Kr	84	-5458				ug/L
Kr	86	428387				ug/L
Sr	88	4832005	925.3021	15.2781	1.65	ug/L
[> Y	89	655096				ug/L
[Mo	98	25229	18.5453	0.0877	0.47	ug/L
Ag	107	41	-0.0069	0.0027	39.44	ug/L
Cd	111	362	-0.0226	0.0314	139.30	ug/L
[> In	115	300677				ug/L
Sn	118	393	0.2325	0.0185	7.96	ug/L
Sb	121	169	0.0746	0.0058	7.76	ug/L
[Ba	135	18548	41.1274	0.8637	2.10	ug/L
[> Tb	159	788536				ug/L
Tl	205	38	-0.0106	0.0008	7.48	ug/L
Pb	208	1599	0.2363	0.0066	2.78	ug/L
Bi	209	458263				ug/L

Sample ID: 480-45529-B-6-B

Report Date/Time: Friday, September 13, 2013 11:36:32

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		95.909			
	Li	7					
	Be	9					
[>	Sc	45		89.757			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		79.976			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		81.281			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		81.116			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		86.312			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Sr 88 Upper, S, EEE	Sr	88	

ICP-MS Report

Sample ID: rinse

Sample Date/Time: Thursday, September 12, 2013 20:39:48

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	271166				ug/L
Li	7	14978	-0.0639	0.0371	58.10	ug/L
[Be	9	5	-0.0190	0.0056	29.44	ug/L
[> Sc	45	172497				ug/L
V	51	954	0.0624	0.0280	44.83	ug/L
Cr	52	2972	0.1368	0.0184	13.46	ug/L
[Mn	55	5119	0.0892	0.0316	35.45	ug/L
[Co	59	44	-0.0113	0.0019	17.06	ug/L
Ni	60	42	0.0067	0.0190	283.46	ug/L
Cu	63	240	0.0045	0.0127	281.22	ug/L
Zn	66	130	0.0349	0.0316	90.74	ug/L
[> Ge	72	103867				ug/L
As	75	97	-0.0005	0.0496	9807.91	ug/L
Br	79	589				ug/L
Se	82	-5	-0.0832	0.2905	349.06	ug/L
Kr	82	31				ug/L
[Kr	83	58				ug/L
[Kr	84	261				ug/L
Kr	86	461				ug/L
Sr	88	3569	0.5677	0.1475	25.98	ug/L
[> Y	89	683261				ug/L
[Mo	98	51	0.0133	0.0061	46.20	ug/L
Ag	107	37	-0.0099	0.0025	24.86	ug/L
Cd	111	391	0.0036	0.0220	614.74	ug/L
[> In	115	313365				ug/L
Sn	118	39	-0.0158	0.0044	27.92	ug/L
[Sb	121	103	0.0360	0.0014	3.78	ug/L
[Ba	135	47	0.0316	0.0216	68.35	ug/L
[> Tb	159	808243				ug/L
Tl	205	22	-0.0147	0.0006	3.74	ug/L
[Pb	208	266	-0.0092	0.0004	4.83	ug/L
Bi	209	477130				ug/L

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:36:33

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		102.099			
	Li	7					
	Be	9					
[>	Sc	45		86.582			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		83.151			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		84.776			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		84.539			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		88.469			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:36:33

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ICP-MS Report

Sample ID: 480-45585-B-1-D

Sample Date/Time: Thursday, September 12, 2013 20:45:17

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	249765				ug/L
Li	7	27751	8.0272	0.4322	5.38	ug/L
Be	9	6	-0.0165	0.0041	24.67	ug/L
[> Sc	45	181143				ug/L
V	51	1061	0.0792	0.0399	50.38	ug/L
Cr	52	3168	0.1532	0.0428	27.93	ug/L
Mn	55	256635	55.7878	0.8376	1.50	ug/L
[Co	59	2081	0.7087	0.0180	2.54	ug/L
Ni	60	4973	8.6121	0.1213	1.41	ug/L
Cu	63	813	0.4615	0.0407	8.81	ug/L
Zn	66	2071	4.7189	0.0654	1.39	ug/L
[> Ge	72	100148				ug/L
As	75	1726	3.5006	0.1174	3.35	ug/L
Br	79	45906				ug/L
Se	82	-11	-0.2103	0.1274	60.57	ug/L
Kr	82	20				ug/L
Kr	83	56				ug/L
[Kr	84	1095				ug/L
Kr	86	201323				ug/L
Sr	88	1679490	318.4861	8.2601	2.59	ug/L
[> Y	89	661585				ug/L
[Mo	98	8877	6.4107	0.1249	1.95	ug/L
Ag	107	31	-0.0122	0.0004	3.35	ug/L
Cd	111	367	-0.0231	0.0068	29.36	ug/L
[> In	115	305401				ug/L
Sn	118	89	0.0193	0.0045	23.36	ug/L
Sb	121	119	0.0461	0.0059	12.83	ug/L
[Ba	135	81512	182.4841	1.7553	0.96	ug/L
[> Tb	159	782029				ug/L
Tl	205	23	-0.0143	0.0009	6.11	ug/L
Pb	208	329	0.0041	0.0005	11.94	ug/L
Bi	209	441078				ug/L

Sample ID: 480-45585-B-1-D

Report Date/Time: Friday, September 13, 2013 11:36:34

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		94.041			
	Li	7					
	Be	9					
[>	Sc	45		90.922			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		80.174			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		82.086			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		82.390			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		85.600			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 480-45585-B-1-D

Report Date/Time: Friday, September 13, 2013 11:36:34

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ICP-MS Report

Sample ID: 480-45585-B-1-D SD@5

Sample Date/Time: Thursday, September 12, 2013 20:50:46

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	262683				ug/L
Li	7	17896	1.8040	0.2134	11.83	ug/L
Be	9	4	-0.0215	0.0024	10.92	ug/L
[> Sc	45	174803				ug/L
V	51	911	0.0458	0.0103	22.60	ug/L
Cr	52	3022	0.1403	0.0056	3.96	ug/L
Mn	55	66559	14.1686	1.7690	12.49	ug/L
[Cr	59	528	0.1507	0.0175	11.60	ug/L
Ni	60	1295	2.0799	0.2685	12.91	ug/L
Cu	63	371	0.0997	0.0228	22.82	ug/L
Zn	66	623	1.1549	0.1148	9.94	ug/L
[> Ge	72	105524				ug/L
As	75	476	0.7666	0.0899	11.73	ug/L
Br	79	11459				ug/L
Se	82	-16	-0.3233	0.1764	54.55	ug/L
Kr	82	24				ug/L
Kr	83	57				ug/L
[Kr	84	63				ug/L
Kr	86	46514				ug/L
Sr	88	446048	80.6788	9.3087	11.54	ug/L
[> Y	89	692414				ug/L
[Mo	98	2083	1.4345	0.1593	11.10	ug/L
Ag	107	28	-0.0144	0.0012	8.21	ug/L
Cd	111	369	-0.0435	0.0550	126.42	ug/L
[> In	115	315939				ug/L
Sn	118	41	-0.0148	0.0015	10.17	ug/L
Sb	121	58	0.0121	0.0025	20.65	ug/L
[Ba	135	19466	37.8867	3.5164	9.28	ug/L
[> Tb	159	905968				ug/L
Tl	205	15	-0.0169	0.0006	3.29	ug/L
Pb	208	327	-0.0034	0.0088	256.68	ug/L
Bi	209	466330				ug/L

Sample ID: 480-45585-B-1-D SD@5

Report Date/Time: Friday, September 13, 2013 11:36:36

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		98.905			
	Li	7					
	Be	9					
[>	Sc	45		87.740			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		84.478			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		85.911			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		85.233			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		99.166			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: 480-45585-B-1-D PDS

Sample Date/Time: Thursday, September 12, 2013 20:56:15

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	255163				ug/L
Li	7	64168	28.3628	0.7956	2.80	ug/L
Be	9	9233	20.7816	0.5937	2.86	ug/L
[> Sc	45	186187				ug/L
V	51	71818	20.0491	0.5048	2.52	ug/L
Cr	52	61831	19.5849	0.3688	1.88	ug/L
Mn	55	347689	73.8736	1.4666	1.99	ug/L
[Cr	59	61630	20.8426	0.4984	2.39	ug/L
Ni	60	16614	27.7169	0.1167	0.42	ug/L
Cu	63	26078	19.4587	0.2323	1.19	ug/L
Zn	66	23526	54.0326	0.4778	0.88	ug/L
[> Ge	72	104490				ug/L
As	75	11875	24.2078	0.2455	1.01	ug/L
Br	79	47047				ug/L
Se	82	891	19.1432	0.7413	3.87	ug/L
Kr	82	128				ug/L
Kr	83	54				ug/L
[Kr	84	1207				ug/L
Kr	86	209645				ug/L
Sr	88	1761798	329.1553	4.4945	1.37	ug/L
[> Y	89	671393				ug/L
[Mo	98	37688	27.1688	0.7357	2.71	ug/L
Ag	107	38513	19.5890	0.3363	1.72	ug/L
Cd	111	10451	19.8298	0.5081	2.56	ug/L
[> In	115	306838				ug/L
Sn	118	29904	20.4303	0.3845	1.88	ug/L
Sb	121	39471	21.2218	0.5992	2.82	ug/L
[Ba	135	89609	197.6694	3.0551	1.55	ug/L
[> Tb	159	793726				ug/L
Tl	205	78317	19.8539	0.1932	0.97	ug/L
Pb	208	105892	19.2113	0.2418	1.26	ug/L
Bi	209	440306				ug/L

Sample ID: 480-45585-B-1-D PDS

Report Date/Time: Friday, September 13, 2013 11:36:37

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		96.074			
	Li	7					
	Be	9					
[>	Sc	45		93.453			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		83.650			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		83.303			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		82.778			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		86.880			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: 480-45585-B-1-E MS

Sample Date/Time: Thursday, September 12, 2013 21:01:45

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	258975				ug/L
Li	7	67082	29.4437	0.9647	3.28	ug/L
[Be	9	9413	20.8658	0.3439	1.65	ug/L
[> Sc	45	186401				ug/L
V	51	71409	19.9065	0.2975	1.49	ug/L
Cr	52	61599	19.4832	0.2442	1.25	ug/L
[Mn	55	349206	74.1167	1.8803	2.54	ug/L
[Co	59	59962	20.5323	0.2268	1.10	ug/L
Ni	60	16604	28.0520	0.5134	1.83	ug/L
Cu	63	26279	19.8626	0.0936	0.47	ug/L
Zn	66	24187	56.2668	0.4802	0.85	ug/L
[> Ge	72	103176				ug/L
As	75	12360	25.5278	0.3450	1.35	ug/L
Br	79	46652				ug/L
Se	82	952	20.7083	0.2365	1.14	ug/L
Kr	82	174				ug/L
[Kr	83	54				ug/L
[Kr	84	1096				ug/L
Kr	86	214725				ug/L
Sr	88	1782984	332.7034	6.7561	2.03	ug/L
[> Y	89	672255				ug/L
[Mo	98	38369	27.5279	0.7136	2.59	ug/L
Ag	107	38212	19.3415	0.5153	2.66	ug/L
Cd	111	10472	19.7674	0.5384	2.72	ug/L
[> In	115	308279				ug/L
Sn	118	30138	20.4957	0.4954	2.42	ug/L
[Sb	121	40679	21.7638	0.3017	1.39	ug/L
[Ba	135	89592	198.6430	2.6369	1.33	ug/L
[> Tb	159	789711				ug/L
Tl	205	80088	20.4076	0.2686	1.32	ug/L
[Pb	208	108315	19.7569	0.3762	1.90	ug/L
Bi	209	441214				ug/L

Sample ID: 480-45585-B-1-E MS

Report Date/Time: Friday, September 13, 2013 11:36:39

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		97.509			
	Li	7					
	Be	9					
[>	Sc	45		93.561			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		82.598			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		83.410			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		83.167			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		86.441			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: 480-45585-B-1-F MSD

Sample Date/Time: Thursday, September 12, 2013 21:07:15

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	252367				ug/L
Li	7	64469	28.9309	1.3213	4.57	ug/L
Be	9	9228	20.9938	0.5098	2.43	ug/L
[> Sc	45	185443				ug/L
V	51	71832	20.1328	0.5313	2.64	ug/L
Cr	52	61762	19.6516	0.6162	3.14	ug/L
Mn	55	347325	74.1112	1.9706	2.66	ug/L
[Cr	59	60680	20.7681	0.3542	1.71	ug/L
Ni	60	16391	27.6761	0.2572	0.93	ug/L
Cu	63	26235	19.8157	0.3040	1.53	ug/L
Zn	66	23961	55.7019	0.5724	1.03	ug/L
[> Ge	72	103238				ug/L
As	75	12024	24.8118	0.1194	0.48	ug/L
Br	79	46586				ug/L
Se	82	917	19.9496	1.1101	5.56	ug/L
Kr	82	125				ug/L
Kr	83	53				ug/L
[Kr	84	1532				ug/L
Kr	86	212904				ug/L
Sr	88	1766837	330.7541	3.2211	0.97	ug/L
[> Y	89	669905				ug/L
[Mo	98	38261	27.8431	0.2877	1.03	ug/L
Ag	107	38410	19.7238	0.2104	1.07	ug/L
Cd	111	10511	20.1464	0.5254	2.61	ug/L
[> In	115	303896				ug/L
Sn	118	29644	20.4469	0.2184	1.07	ug/L
Sb	121	40258	21.8525	0.4901	2.24	ug/L
[Ba	135	89107	197.0452	2.0720	1.05	ug/L
[> Tb	159	791911				ug/L
Tl	205	78314	19.9079	0.5457	2.74	ug/L
Pb	208	107211	19.5099	0.5947	3.05	ug/L
Bi	209	437854				ug/L

Sample ID: 480-45585-B-1-F MSD

Report Date/Time: Friday, September 13, 2013 11:36:40

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		95.021			
	Li	7					
	Be	9					
[>	Sc	45		93.080			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		82.647			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		83.119			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		81.984			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		86.681			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: 480-45585-B-2-B

Sample Date/Time: Thursday, September 12, 2013 21:12:46

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	261315				ug/L
Li	7	27176	7.0021	0.5255	7.50	ug/L
Be	9	18	0.0098	0.0127	128.95	ug/L
[> Sc	45	183656				ug/L
V	51	1597	0.2287	0.0119	5.19	ug/L
Cr	52	3600	0.2832	0.0084	2.95	ug/L
Mn	55	397234	85.7274	1.1747	1.37	ug/L
[Cr	59	1986	0.6356	0.0182	2.87	ug/L
Ni	60	2925	4.7505	0.0704	1.48	ug/L
Cu	63	676	0.3240	0.0068	2.09	ug/L
Zn	66	1249	2.5684	0.1857	7.23	ug/L
[> Ge	72	106161				ug/L
As	75	594	1.0012	0.0466	4.65	ug/L
Br	79	28917				ug/L
Se	82	-3	-0.0335	0.2659	794.49	ug/L
Kr	82	9				ug/L
Kr	83	57				ug/L
[Kr	84	331				ug/L
Kr	86	140731				ug/L
Sr	88	1246416	227.9417	3.3558	1.47	ug/L
[> Y	89	685724				ug/L
[Mo	98	2738	1.9588	0.0301	1.54	ug/L
Ag	107	112	0.0288	0.0122	42.33	ug/L
Cd	111	373	-0.0134	0.0481	358.14	ug/L
[> In	115	305754				ug/L
Sn	118	136	0.0512	0.0235	45.86	ug/L
Sb	121	432	0.2145	0.0635	29.60	ug/L
[Ba	135	63206	137.5345	3.2166	2.34	ug/L
[> Tb	159	804563				ug/L
Tl	205	174	0.0232	0.0118	50.94	ug/L
Pb	208	377	0.0110	0.0155	140.63	ug/L
Bi	209	447190				ug/L

Sample ID: 480-45585-B-2-B

Report Date/Time: Friday, September 13, 2013 11:36:41

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		98.390			
	Li	7					
	Be	9					
[>	Sc	45		92.183			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		84.988			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		85.081			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		82.486			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		88.066			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 480-45585-B-2-B

Report Date/Time: Friday, September 13, 2013 11:36:41

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ICP-MS Report

Sample ID: 480-45585-B-3-D

Sample Date/Time: Thursday, September 12, 2013 21:18:17

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	255892				ug/L
Li	7	18143	2.2053	0.1175	5.33	ug/L
Be	9	9	-0.0103	0.0079	77.08	ug/L
[> Sc	45	178453				ug/L
V	51	867	0.0274	0.0506	184.81	ug/L
Cr	52	3182	0.1741	0.0414	23.78	ug/L
Mn	55	903377	202.1638	4.4325	2.19	ug/L
[Cr	59	965	0.3024	0.0147	4.86	ug/L
Ni	60	1539	2.5278	0.0916	3.63	ug/L
Cu	63	405	0.1301	0.0160	12.29	ug/L
Zn	66	870	1.7524	0.0651	3.72	ug/L
[> Ge	72	103784				ug/L
As	75	618	1.0789	0.0516	4.78	ug/L
Br	79	12031				ug/L
Se	82	6	0.1653	0.1347	81.52	ug/L
Kr	82	11				ug/L
Kr	83	52				ug/L
[Kr	84	153				ug/L
Kr	86	44880				ug/L
Sr	88	421613	78.9786	0.2347	0.30	ug/L
[> Y	89	668934				ug/L
[Mo	98	4787	3.4135	0.0464	1.36	ug/L
Ag	107	39	-0.0082	0.0025	30.42	ug/L
Cd	111	347	-0.0689	0.0311	45.19	ug/L
[> In	115	308274				ug/L
Sn	118	70	0.0055	0.0041	74.40	ug/L
Sb	121	185	0.0807	0.0093	11.55	ug/L
[Ba	135	32354	71.4141	1.4295	2.00	ug/L
[> Tb	159	792753				ug/L
Tl	205	41	-0.0099	0.0020	19.86	ug/L
Pb	208	219	-0.0167	0.0047	28.33	ug/L
Bi	209	452807				ug/L

Sample ID: 480-45585-B-3-D

Report Date/Time: Friday, September 13, 2013 11:36:43

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		96.348			
	Li	7					
	Be	9					
[>	Sc	45		89.572			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		83.085			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		82.998			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		83.165			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		86.774			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 480-45585-B-3-D

Report Date/Time: Friday, September 13, 2013 11:36:43

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ICP-MS Report

Sample ID: CCV-1582170

Sample Date/Time: Thursday, September 12, 2013 21:23:50

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	279285				ug/L
Li	7	63982	25.1193	0.6442	2.56	ug/L
Be	9	11753	24.1863	1.2687	5.25	ug/L
[> Sc	45	174967				ug/L
V	51	86435	25.7370	0.6013	2.34	ug/L
Cr	52	75933	25.8838	0.6428	2.48	ug/L
Mn	55	119467	26.3152	0.6755	2.57	ug/L
[Cr	59	77579	25.8936	0.3582	1.38	ug/L
Ni	60	15956	26.2671	0.2753	1.05	ug/L
Cu	63	35044	25.8635	0.6272	2.43	ug/L
Zn	66	11376	25.6422	0.5551	2.16	ug/L
[> Ge	72	105887				ug/L
As	75	12122	24.3843	0.2074	0.85	ug/L
Br	79	865				ug/L
Se	82	1182	25.0545	0.2721	1.09	ug/L
Kr	82	177				ug/L
Kr	83	60				ug/L
[Kr	84	211				ug/L
Kr	86	14657				ug/L
Sr	88	141262	25.2825	0.1119	0.44	ug/L
[> Y	89	698501				ug/L
[Mo	98	35981	24.6626	0.4059	1.65	ug/L
Ag	107	50335	24.3523	0.1406	0.58	ug/L
Cd	111	13885	25.2463	0.0540	0.21	ug/L
[> In	115	322586				ug/L
Sn	118	37848	24.5981	0.2402	0.98	ug/L
Sb	121	47956	24.5161	0.1538	0.63	ug/L
[Ba	135	11184	24.2203	0.1616	0.67	ug/L
[> Tb	159	806323				ug/L
Tl	205	104057	25.9772	0.4847	1.87	ug/L
Pb	208	142487	25.4685	0.1879	0.74	ug/L
Bi	209	471989				ug/L

Sample ID: CCV-1582170

Report Date/Time: Friday, September 13, 2013 11:36:44

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		105.156			
	Li	7	100.477				
	Be	9	96.745				
[>	Sc	45		87.822			
	V	51	102.948				
	Cr	52	103.535				
	Mn	55	105.261				
	Co	59	103.574				
	Ni	60	105.068				
	Cu	63	103.454				
	Zn	66	102.569				
[>	Ge	72		84.768			
	As	75	97.537				
	Br	79					
	Se	82	100.218				
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88	101.130				
[>	Y	89		86.667			
	Mo	98	98.650				
	Ag	107	97.409				
	Cd	111	100.985				
[>	In	115		87.026			
	Sn	118	98.393				
	Sb	121	98.064				
	Ba	135	96.881				
[>	Tb	159		88.259			
	Tl	205	103.909				
	Pb	208	101.874				
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCV-1582170

Report Date/Time: Friday, September 13, 2013 11:36:44

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ICP-MS Report

Sample ID: CCB-1540064

Sample Date/Time: Thursday, September 12, 2013 21:30:25

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	267099				ug/L
Li	7	14771	-0.0535	0.1838	343.33	ug/L
Be	9	19	0.0121	0.0307	254.23	ug/L
[> Sc	45	178081				ug/L
V	51	1198	0.1246	0.0326	26.20	ug/L
Cr	52	3567	0.3094	0.0108	3.48	ug/L
Mn	55	5495	0.1330	0.1468	110.41	ug/L
[Co	59	124	0.0143	0.0382	268.10	ug/L
Ni	60	58	0.0308	0.0447	144.98	ug/L
Cu	63	257	0.0115	0.0304	264.75	ug/L
Zn	66	129	0.0222	0.0352	158.46	ug/L
[> Ge	72	107108				ug/L
As	75	115	0.0298	0.0738	247.79	ug/L
Br	79	693				ug/L
Se	82	-5	-0.0777	0.2289	294.59	ug/L
Kr	82	32				ug/L
Kr	83	57				ug/L
[Kr	84	278				ug/L
Kr	86	229				ug/L
Sr	88	1132	0.1174	0.1958	166.78	ug/L
[> Y	89	690422				ug/L
[Mo	98	68	0.0236	0.0344	145.75	ug/L
Ag	107	96	0.0178	0.0335	188.05	ug/L
Cd	111	411	0.0161	0.0611	379.99	ug/L
[> In	115	323577				ug/L
Sn	118	89	0.0155	0.0376	241.82	ug/L
Sb	121	394	0.1820	0.0673	36.98	ug/L
[Ba	135	75	0.0899	0.1310	145.69	ug/L
[> Tb	159	815844				ug/L
Tl	205	156	0.0178	0.0350	195.96	ug/L
Pb	208	427	0.0185	0.0317	171.54	ug/L
Bi	209	476452				ug/L

Sample ID: CCB-1540064

Report Date/Time: Friday, September 13, 2013 11:36:45

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		100.568			
	Li	7					
	Be	9					
[>	Sc	45		89.385			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		85.746			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		85.664			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		87.294			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		89.301			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCB-1540064

Report Date/Time: Friday, September 13, 2013 11:36:45

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ICP-MS Report

Sample ID: 480-45585-B-3-D SD@5

Sample Date/Time: Thursday, September 12, 2013 21:36:00

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	264423				ug/L
Li	7	15597	0.4792	0.0720	15.02	ug/L
Be	9	8	-0.0115	0.0073	63.22	ug/L
[> Sc	45	175518				ug/L
V	51	997	0.0701	0.0291	41.47	ug/L
Cr	52	3138	0.1770	0.0292	16.49	ug/L
Mn	55	199287	44.4747	0.4814	1.08	ug/L
Co	59	257	0.0589	0.0116	19.62	ug/L
Ni	60	461	0.6953	0.0483	6.94	ug/L
Cu	63	313	0.0552	0.0086	15.57	ug/L
Zn	66	581	1.0533	0.0495	4.70	ug/L
[> Ge	72	106169				ug/L
As	75	204	0.2135	0.0645	30.21	ug/L
Br	79	2852				ug/L
Se	82	5	0.1274	0.1717	134.80	ug/L
Kr	82	28				ug/L
Kr	83	56				ug/L
Kr	84	207				ug/L
Kr	86	9500				ug/L
Sr	88	90852	16.5074	0.1336	0.81	ug/L
[> Y	89	686917				ug/L
Mo	98	989	0.6606	0.0239	3.62	ug/L
Ag	107	50	-0.0036	0.0095	263.80	ug/L
Cd	111	378	-0.0363	0.0157	43.28	ug/L
[> In	115	320092				ug/L
Sn	118	59	-0.0032	0.0054	172.44	ug/L
Sb	121	213	0.0915	0.0204	22.24	ug/L
Ba	135	6623	14.3042	0.1237	0.86	ug/L
[> Tb	159	807085				ug/L
Tl	205	58	-0.0059	0.0073	123.87	ug/L
Pb	208	378	0.0109	0.0076	70.39	ug/L
Bi	209	469059				ug/L

Sample ID: 480-45585-B-3-D SD@5

Report Date/Time: Friday, September 13, 2013 11:36:47

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		99.560			
	Li	7					
	Be	9					
[>	Sc	45		88.098			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		84.994			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		85.229			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		86.354			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		88.342			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: 480-45585-B-3-D PDS

Sample Date/Time: Thursday, September 12, 2013 21:41:32

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	265909				ug/L
Li	7	61069	25.1933	0.3740	1.48	ug/L
[Be	9	10413	22.4868	0.6102	2.71	ug/L
[> Sc	45	175259				ug/L
V	51	78717	23.3743	0.4927	2.11	ug/L
Cr	52	67887	22.9950	0.2974	1.29	ug/L
[Mn	55	982198	223.8800	5.8528	2.61	ug/L
[Co	59	66073	22.6173	0.2862	1.27	ug/L
Ni	60	14405	24.3197	0.1720	0.71	ug/L
Cu	63	28799	21.7752	0.2145	0.99	ug/L
Zn	66	25383	59.0369	0.8265	1.40	ug/L
[> Ge	72	103224				ug/L
As	75	11632	23.9995	0.2114	0.88	ug/L
Br	79	11639				ug/L
Se	82	1029	22.3728	0.2817	1.26	ug/L
Kr	82	108				ug/L
[Kr	83	54				ug/L
[Kr	84	142				ug/L
Kr	86	57113				ug/L
Sr	88	532715	100.1275	0.3943	0.39	ug/L
[> Y	89	666804				ug/L
[Mo	98	36911	26.3686	0.1467	0.56	ug/L
Ag	107	43061	21.7098	0.0691	0.32	ug/L
Cd	111	11694	22.0724	0.7186	3.26	ug/L
[> In	115	309518				ug/L
Sn	118	33713	22.8347	0.3350	1.47	ug/L
[Sb	121	44752	23.8480	0.4782	2.01	ug/L
[Ba	135	41891	92.5382	0.6396	0.69	ug/L
[> Tb	159	792210				ug/L
Tl	205	89413	22.7102	0.2777	1.22	ug/L
[Pb	208	121125	22.0276	0.1761	0.80	ug/L
Bi	209	448712				ug/L

Sample ID: 480-45585-B-3-D PDS

Report Date/Time: Friday, September 13, 2013 11:36:48

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		100.120			
	Li	7					
	Be	9					
[>	Sc	45		87.968			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		82.636			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		82.734			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		83.501			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		86.714			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: 480-45585-B-3-E MS

Sample Date/Time: Thursday, September 12, 2013 21:47:04

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	268516				ug/L
Li	7	56372	22.3394	0.6455	2.89	ug/L
Be	9	9298	19.8807	0.5979	3.01	ug/L
[> Sc	45	181582				ug/L
V	51	72601	20.7944	0.8244	3.96	ug/L
Cr	52	61984	20.1647	0.6195	3.07	ug/L
Mn	55	1026085	225.7979	7.0148	3.11	ug/L
[Cr	59	60628	20.4332	0.2675	1.31	ug/L
Ni	60	13376	22.2274	0.3157	1.42	ug/L
Cu	63	26319	19.5745	0.0677	0.35	ug/L
Zn	66	22650	51.8357	0.1849	0.36	ug/L
[> Ge	72	104834				ug/L
As	75	10945	22.2220	0.1903	0.86	ug/L
Br	79	12191				ug/L
Se	82	925	19.8193	0.3767	1.90	ug/L
Kr	82	74				ug/L
Kr	83	55				ug/L
[Kr	84	82				ug/L
Kr	86	58193				ug/L
Sr	88	539741	100.8590	0.9177	0.91	ug/L
[> Y	89	670749				ug/L
[Mo	98	33501	23.7189	0.1966	0.83	ug/L
Ag	107	38670	19.3250	0.3544	1.83	ug/L
Cd	111	10569	19.6918	0.1540	0.78	ug/L
[> In	115	312260				ug/L
Sn	118	29917	20.0772	0.2000	1.00	ug/L
Sb	121	40831	21.5617	0.1076	0.50	ug/L
[Ba	135	41906	93.7847	0.4844	0.52	ug/L
[> Tb	159	781968				ug/L
Tl	205	79393	20.4299	0.2427	1.19	ug/L
Pb	208	108973	20.0769	0.3596	1.79	ug/L
Bi	209	450393				ug/L

Sample ID: 480-45585-B-3-E MS

Report Date/Time: Friday, September 13, 2013 11:36:50

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		101.101			
	Li	7					
	Be	9					
[>	Sc	45		91.142			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		83.926			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		83.223			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		84.241			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		85.593			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: 480-45585-B-3-F MSD

Sample Date/Time: Thursday, September 12, 2013 21:52:34

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	269115				ug/L
Li	7	57401	22.8171	0.3313	1.45	ug/L
Be	9	9579	20.4303	0.3482	1.70	ug/L
[> Sc	45	179283				ug/L
V	51	72337	20.9760	0.0719	0.34	ug/L
Cr	52	62887	20.7356	0.3948	1.90	ug/L
Mn	55	1014497	226.0689	2.8963	1.28	ug/L
[Cr	59	61329	20.8785	0.1328	0.64	ug/L
Ni	60	13456	22.5894	0.2914	1.29	ug/L
Cu	63	25959	19.5011	0.3315	1.70	ug/L
Zn	66	22789	52.6855	0.5018	0.95	ug/L
[> Ge	72	103789				ug/L
As	75	10883	22.3198	0.5342	2.39	ug/L
Br	79	12697				ug/L
Se	82	959	20.7358	0.7346	3.54	ug/L
Kr	82	122				ug/L
Kr	83	54				ug/L
[Kr	84	137				ug/L
Kr	86	58024				ug/L
Sr	88	542405	102.3288	2.2073	2.16	ug/L
[> Y	89	664485				ug/L
[Mo	98	34274	24.4533	0.3179	1.30	ug/L
Ag	107	39633	19.9504	0.2521	1.26	ug/L
Cd	111	10618	19.9420	0.4470	2.24	ug/L
[> In	115	309945				ug/L
Sn	118	30324	20.5049	0.2822	1.38	ug/L
Sb	121	40552	21.5821	0.5059	2.34	ug/L
[Ba	135	42498	93.7372	1.8278	1.95	ug/L
[> Tb	159	793539				ug/L
Tl	205	81146	20.5731	0.4434	2.16	ug/L
Pb	208	110011	19.9678	0.1118	0.56	ug/L
Bi	209	452269				ug/L

Sample ID: 480-45585-B-3-F MSD

Report Date/Time: Friday, September 13, 2013 11:36:51

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		101.327			
	Li	7					
	Be	9					
[>	Sc	45		89.989			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	72		83.089			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
>	Y	89		82.446			
	Mo	98					
	Ag	107					
	Cd	111					
>	In	115		83.616			
	Sn	118					
	Sb	121					
	Ba	135					
>	Tb	159		86.860			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: 480-45585-B-4-B

Sample Date/Time: Thursday, September 12, 2013 21:58:00

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	263545				ug/L
Li	7	27995	7.3183	0.2069	2.83	ug/L
Be	9	32	0.0391	0.0226	57.82	ug/L
[> Sc	45	181660				ug/L
V	51	1036	0.0715	0.0176	24.64	ug/L
Cr	52	3299	0.1940	0.0309	15.90	ug/L
Mn	55	38037	7.3035	0.2461	3.37	ug/L
[Cr	59	442	0.1278	0.0201	15.69	ug/L
Ni	60	1127	1.8748	0.0251	1.34	ug/L
Cu	63	513	0.2202	0.0366	16.63	ug/L
Zn	66	1527	3.3580	0.1555	4.63	ug/L
[> Ge	72	101537				ug/L
As	75	2203	4.4594	0.0313	0.70	ug/L
Br	79	5853				ug/L
Se	82	-3	-0.0278	0.2785	1002.05	ug/L
Kr	82	5				ug/L
Kr	83	55				ug/L
[Kr	84	-4488				ug/L
Kr	86	361003				ug/L
Sr	88	4091048	781.8248	13.9035	1.78	ug/L
[> Y	89	656486				ug/L
[Mo	98	4820	3.4893	0.0223	0.64	ug/L
Ag	107	153	0.0504	0.0224	44.34	ug/L
Cd	111	391	0.0268	0.0335	125.08	ug/L
[> In	115	303705				ug/L
Sn	118	138	0.0529	0.0220	41.50	ug/L
Sb	121	600	0.3068	0.0692	22.57	ug/L
[Ba	135	34529	77.6211	0.6727	0.87	ug/L
[> Tb	159	778354				ug/L
Tl	205	242	0.0426	0.0250	58.64	ug/L
Pb	208	488	0.0340	0.0215	63.13	ug/L
Bi	209	455303				ug/L

Sample ID: 480-45585-B-4-B

Report Date/Time: Friday, September 13, 2013 11:36:52

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		99.230			
	Li	7					
	Be	9					
[>	Sc	45		91.181			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		81.286			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		81.454			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		81.933			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		85.197			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 480-45585-B-4-B

Report Date/Time: Friday, September 13, 2013 11:36:52

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ICP-MS Report

Sample ID: 480-45585-B-5-B

Sample Date/Time: Thursday, September 12, 2013 22:03:26

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	257679				ug/L
Li	7	28589	8.0055	0.3954	4.94	ug/L
Be	9	7	-0.0144	0.0010	7.21	ug/L
[> Sc	45	181762				ug/L
V	51	993	0.0588	0.0121	20.60	ug/L
Cr	52	3264	0.1818	0.0294	16.19	ug/L
Mn	55	51446	10.2612	0.3992	3.89	ug/L
[Co	59	1025	0.3283	0.0041	1.25	ug/L
Ni	60	4340	7.3541	0.2417	3.29	ug/L
Cu	63	947	0.5521	0.0160	2.89	ug/L
Zn	66	2375	5.3363	0.0527	0.99	ug/L
[> Ge	72	102209				ug/L
As	75	1940	3.8752	0.1269	3.28	ug/L
Br	79	20824				ug/L
Se	82	-2	-0.0096	0.0183	190.82	ug/L
Kr	82	-37				ug/L
Kr	83	55				ug/L
[Kr	84	651				ug/L
Kr	86	153685				ug/L
Sr	88	1328869	250.0425	1.0287	0.41	ug/L
[> Y	89	666471				ug/L
[Mo	98	4585	3.3332	0.0889	2.67	ug/L
Ag	107	49	-0.0026	0.0031	120.78	ug/L
Cd	111	353	-0.0441	0.0046	10.34	ug/L
[> In	115	302394				ug/L
Sn	118	104	0.0302	0.0032	10.66	ug/L
Sb	121	290	0.1399	0.0130	9.26	ug/L
[Ba	135	77952	176.4480	2.4479	1.39	ug/L
[> Tb	159	773580				ug/L
Tl	205	43	-0.0090	0.0025	27.71	ug/L
Pb	208	278	-0.0048	0.0041	84.63	ug/L
Bi	209	439405				ug/L

Sample ID: 480-45585-B-5-B

Report Date/Time: Friday, September 13, 2013 11:36:54

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		97.021			
	Li	7					
	Be	9					
[>	Sc	45		91.233			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	72		81.824			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
>	Y	89		82.693			
	Mo	98					
	Ag	107					
	Cd	111					
>	In	115		81.579			
	Sn	118					
	Sb	121					
	Ba	135					
>	Tb	159		84.675			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 480-45585-B-5-B

Report Date/Time: Friday, September 13, 2013 11:36:54

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ICP-MS Report

Sample ID: 480-45585-B-6-B

Sample Date/Time: Thursday, September 12, 2013 22:08:53

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	258343				ug/L
Li	7	27949	7.6120	0.4872	6.40	ug/L
Be	9	6	-0.0174	0.0034	19.73	ug/L
[> Sc	45	185127				ug/L
V	51	788	-0.0048	0.0961	1998.51	ug/L
Cr	52	3311	0.1771	0.0260	14.70	ug/L
Mn	55	57708	11.4116	0.2918	2.56	ug/L
[Co	59	1249	0.4102	0.0304	7.42	ug/L
Ni	60	6677	11.4692	0.4027	3.51	ug/L
Cu	63	854	0.4874	0.0339	6.95	ug/L
Zn	66	1986	4.4650	0.0515	1.15	ug/L
[> Ge	72	101169				ug/L
As	75	1875	3.7787	0.0556	1.47	ug/L
Br	79	23404				ug/L
Se	82	-6	-0.1025	0.2298	224.32	ug/L
Kr	82	-91				ug/L
Kr	83	60				ug/L
[Kr	84	1281				ug/L
Kr	86	221743				ug/L
Sr	88	1854993	352.2343	3.7537	1.07	ug/L
[> Y	89	660609				ug/L
[Mo	98	1866	1.3388	0.0524	3.91	ug/L
Ag	107	36	-0.0095	0.0021	21.97	ug/L
Cd	111	320	-0.1123	0.0163	14.52	ug/L
[> In	115	303337				ug/L
Sn	118	73	0.0089	0.0010	10.74	ug/L
Sb	121	247	0.1159	0.0052	4.49	ug/L
[Ba	135	84314	187.7109	3.6550	1.95	ug/L
[> Tb	159	786567				ug/L
Tl	205	29	-0.0128	0.0010	8.09	ug/L
Pb	208	203	-0.0194	0.0031	16.18	ug/L
Bi	209	434746				ug/L

Sample ID: 480-45585-B-6-B

Report Date/Time: Friday, September 13, 2013 11:36:55

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		97.271			
	Li	7					
	Be	9					
[>	Sc	45		92.922			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		80.991			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		81.965			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		81.834			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		86.096			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 480-45585-B-6-B

Report Date/Time: Friday, September 13, 2013 11:36:55

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ICP-MS Report

Sample ID: 480-45585-B-7-B

Sample Date/Time: Thursday, September 12, 2013 22:14:21

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	266649				ug/L
Li	7	29579	7.9997	0.1708	2.14	ug/L
Be	9	6	-0.0169	0.0044	25.92	ug/L
[> Sc	45	183430				ug/L
V	51	1085	0.0827	0.0392	47.45	ug/L
Cr	52	2956	0.0679	0.0215	31.59	ug/L
Mn	55	64132	12.9331	0.1583	1.22	ug/L
[Cr	59	399	0.1137	0.0043	3.75	ug/L
Ni	60	888	1.4746	0.0820	5.56	ug/L
Cu	63	314	0.0683	0.0028	4.03	ug/L
Zn	66	842	1.7459	0.0234	1.34	ug/L
[> Ge	72	100764				ug/L
As	75	1518	3.0352	0.0780	2.57	ug/L
Br	79	2851				ug/L
Se	82	2	0.0710	0.0761	107.22	ug/L
Kr	82	22				ug/L
Kr	83	53				ug/L
[Kr	84	-6650				ug/L
Kr	86	498726				ug/L
Sr	88	5712644	1090.0004	19.1609	1.76	ug/L
[> Y	89	657552				ug/L
[Mo	98	11143	8.0542	0.0762	0.95	ug/L
Ag	107	33	-0.0114	0.0014	12.11	ug/L
Cd	111	343	-0.0721	0.0239	33.11	ug/L
[> In	115	305332				ug/L
Sn	118	61	0.0002	0.0037	2407.66	ug/L
Sb	121	119	0.0460	0.0087	18.89	ug/L
[Ba	135	38770	86.0573	0.3617	0.42	ug/L
[> Tb	159	788367				ug/L
Tl	205	18	-0.0158	0.0005	3.39	ug/L
Pb	208	166	-0.0262	0.0017	6.58	ug/L
Bi	209	456681				ug/L

Sample ID: 480-45585-B-7-B

Report Date/Time: Friday, September 13, 2013 11:36:56

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		100.398			
	Li	7					
	Be	9					
[>	Sc	45		92.070			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		80.667			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		81.586			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		82.372			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		86.293			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Sr 88 Upper, S, EEE	Sr	88	

ICP-MS Report

Sample ID: 480-45585-B-8-B

Sample Date/Time: Thursday, September 12, 2013 22:19:49

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	269904				ug/L
Li	7	25552	5.6531	0.3854	6.82	ug/L
Be	9	5	-0.0189	0.0025	13.10	ug/L
[> Sc	45	181025				ug/L
V	51	971	0.0536	0.0301	56.04	ug/L
Cr	52	2963	0.0832	0.0098	11.76	ug/L
Mn	55	187051	40.3761	0.4855	1.20	ug/L
[Cr	59	740	0.2310	0.0149	6.43	ug/L
Ni	60	1138	1.8892	0.0704	3.72	ug/L
Cu	63	466	0.1829	0.0197	10.76	ug/L
Zn	66	1921	4.2836	0.0979	2.29	ug/L
[> Ge	72	101779				ug/L
As	75	3123	6.3912	0.1697	2.65	ug/L
Br	79	6373				ug/L
Se	82	-1	0.0064	0.0699	1091.98	ug/L
Kr	82	8				ug/L
Kr	83	48				ug/L
[Kr	84	-4583				ug/L
Kr	86	371718				ug/L
Sr	88	4172497	794.0792	2.7056	0.34	ug/L
[> Y	89	659028				ug/L
[Mo	98	5914	4.2583	0.0420	0.99	ug/L
Ag	107	29	-0.0133	0.0013	9.84	ug/L
Cd	111	351	-0.0560	0.0218	38.88	ug/L
[> In	115	305730				ug/L
Sn	118	86	0.0174	0.0111	63.93	ug/L
Sb	121	105	0.0385	0.0045	11.61	ug/L
[Ba	135	51144	111.7701	2.7481	2.46	ug/L
[> Tb	159	801143				ug/L
Tl	205	16	-0.0164	0.0009	5.66	ug/L
Pb	208	180	-0.0241	0.0029	11.88	ug/L
Bi	209	456203				ug/L

Sample ID: 480-45585-B-8-B

Report Date/Time: Friday, September 13, 2013 11:36:58

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		101.624			
	Li	7					
	Be	9					
[>	Sc	45		90.863			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	72		81.480			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
>	Y	89		81.769			
	Mo	98					
	Ag	107					
	Cd	111					
>	In	115		82.479			
	Sn	118					
	Sb	121					
	Ba	135					
>	Tb	159		87.692			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 480-45585-B-8-B

Report Date/Time: Friday, September 13, 2013 11:36:58

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ICP-MS Report

Sample ID: 480-45585-B-9-B

Sample Date/Time: Thursday, September 12, 2013 22:25:18

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	262753				ug/L
Li	7	17649	1.6653	0.1545	9.28	ug/L
Be	9	6	-0.0176	0.0095	54.14	ug/L
[> Sc	45	174107				ug/L
V	51	2196	0.4346	0.0013	0.30	ug/L
Cr	52	3011	0.1409	0.0109	7.72	ug/L
Mn	55	47676	9.8945	0.2646	2.67	ug/L
[Cr	59	1604	0.5269	0.0189	3.59	ug/L
Ni	60	225	0.3185	0.0356	11.16	ug/L
Cu	63	904	0.5160	0.0124	2.41	ug/L
Zn	66	1219	2.5981	0.0246	0.95	ug/L
[> Ge	72	102600				ug/L
As	75	556	0.9640	0.0737	7.65	ug/L
Br	79	13871				ug/L
Se	82	10	0.2525	0.2549	100.97	ug/L
Kr	82	43				ug/L
Kr	83	51				ug/L
[Kr	84	84				ug/L
Kr	86	69357				ug/L
Sr	88	645103	122.6364	0.1724	0.14	ug/L
[> Y	89	659405				ug/L
[Mo	98	300536	216.5217	6.3654	2.94	ug/L
Ag	107	29	-0.0132	0.0021	16.07	ug/L
Cd	111	349	-0.0617	0.0842	136.59	ug/L
[> In	115	307395				ug/L
Sn	118	62	0.0000	0.0077	19581.58	ug/L
Sb	121	127	0.0498	0.0081	16.23	ug/L
[Ba	135	2862	6.1851	0.0428	0.69	ug/L
[> Tb	159	801456				ug/L
Tl	205	15	-0.0165	0.0002	1.37	ug/L
Pb	208	247	-0.0121	0.0007	5.86	ug/L
Bi	209	447953				ug/L

Sample ID: 480-45585-B-9-B

Report Date/Time: Friday, September 13, 2013 11:36:59

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		98.931			
	Li	7					
	Be	9					
[>	Sc	45		87.390			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	72		82.137			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
>	Y	89		81.816			
	Mo	98					
	Ag	107					
	Cd	111					
>	In	115		82.928			
	Sn	118					
	Sb	121					
	Ba	135					
>	Tb	159		87.726			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: 480-45585-B-9-B

Report Date/Time: Friday, September 13, 2013 11:36:59

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ICP-MS Report

Sample ID: CCV-1582170

Sample Date/Time: Thursday, September 12, 2013 22:30:50

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	272562				ug/L
Li	7	61899	24.8171	0.3599	1.45	ug/L
[Be	9	11504	24.2389	0.9584	3.95	ug/L
[> Sc	45	170983				ug/L
V	51	82923	25.2628	0.5783	2.29	ug/L
Cr	52	72655	25.3196	0.6448	2.55	ug/L
[Mn	55	111769	25.1432	0.5165	2.05	ug/L
[Co	59	72719	25.2132	0.2633	1.04	ug/L
Ni	60	15014	25.6722	0.3113	1.21	ug/L
Cu	63	32705	25.0671	0.1695	0.68	ug/L
Zn	66	10795	25.2748	0.2744	1.09	ug/L
[> Ge	72	101924				ug/L
As	75	11693	24.4387	0.6934	2.84	ug/L
Br	79	654				ug/L
Se	82	1115	24.5528	0.3143	1.28	ug/L
Kr	82	131				ug/L
[Kr	83	64				ug/L
[Kr	84	195				ug/L
Kr	86	14094				ug/L
Sr	88	134434	25.2358	0.2296	0.91	ug/L
[> Y	89	665932				ug/L
[Mo	98	34345	24.5411	0.3479	1.42	ug/L
Ag	107	48032	24.2270	0.4216	1.74	ug/L
Cd	111	12930	24.4917	0.4925	2.01	ug/L
[> In	115	309460				ug/L
Sn	118	37064	25.1102	0.1251	0.50	ug/L
[Sb	121	46759	24.9241	0.3801	1.53	ug/L
[Ba	135	10711	23.9108	0.1297	0.54	ug/L
[> Tb	159	782314				ug/L
Tl	205	100118	25.7563	0.0751	0.29	ug/L
[Pb	208	138134	25.4523	0.3503	1.38	ug/L
Bi	209	462066				ug/L

Sample ID: CCV-1582170

Report Date/Time: Friday, September 13, 2013 11:37:01

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		102.625			
	Li	7	99.269				
	Be	9	96.956				
[>	Sc	45		85.822			
	V	51	101.051				
	Cr	52	101.278				
	Mn	55	100.573				
	Co	59	100.853				
	Ni	60	102.689				
	Cu	63	100.268				
	Zn	66	101.099				
[>	Ge	72		81.596			
	As	75	97.755				
	Br	79					
	Se	82	98.211				
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88	100.943				
[>	Y	89		82.626			
	Mo	98	98.164				
	Ag	107	96.908				
	Cd	111	97.967				
[>	In	115		83.485			
	Sn	118	100.441				
	Sb	121	99.696				
	Ba	135	95.643				
[>	Tb	159		85.631			
	Tl	205	103.025				
	Pb	208	101.809				
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCV-1582170

Report Date/Time: Friday, September 13, 2013 11:37:01

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ICP-MS Report

Sample ID: CCB-1540064

Sample Date/Time: Thursday, September 12, 2013 22:37:22

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	269338				ug/L
Li	7	15326	0.1774	0.0291	16.43	ug/L
Be	9	11	-0.0066	0.0107	162.54	ug/L
[> Sc	45	173358				ug/L
V	51	1042	0.0876	0.0075	8.60	ug/L
Cr	52	3214	0.2177	0.0139	6.38	ug/L
Mn	55	5117	0.0825	0.0364	44.17	ug/L
Co	59	79	-0.0001	0.0103	16232.41	ug/L
Ni	60	42	0.0059	0.0113	192.06	ug/L
Cu	63	231	-0.0053	0.0141	265.70	ug/L
Zn	66	122	0.0092	0.0188	204.48	ug/L
[> Ge	72	105932				ug/L
As	75	95	-0.0085	0.0127	150.68	ug/L
Br	79	526				ug/L
Se	82	-2	-0.0174	0.2767	1594.64	ug/L
Kr	82	25				ug/L
Kr	83	52				ug/L
Kr	84	259				ug/L
Kr	86	167				ug/L
Sr	88	710	0.0441	0.0799	181.21	ug/L
[> Y	89	690878				ug/L
Mo	98	127	0.0650	0.0751	115.59	ug/L
Ag	107	61	0.0018	0.0110	615.13	ug/L
Cd	111	411	0.0327	0.0309	94.37	ug/L
[> In	115	317042				ug/L
Sn	118	64	0.0002	0.0093	4225.36	ug/L
Sb	121	334	0.1554	0.0470	30.23	ug/L
Ba	135	37	0.0107	0.0026	24.59	ug/L
[> Tb	159	801101				ug/L
Tl	205	92	0.0027	0.0152	554.96	ug/L
Pb	208	294	-0.0035	0.0098	277.24	ug/L
Bi	209	468099				ug/L

Sample ID: CCB-1540064

Report Date/Time: Friday, September 13, 2013 11:37:02

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		101.411			
	Li	7					
	Be	9					
[>	Sc	45		87.014			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		84.804			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		85.721			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		85.531			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		87.687			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCB-1540064

Report Date/Time: Friday, September 13, 2013 11:37:02

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ICP-MS Report

Sample ID: 480-45585-B-10-B

Sample Date/Time: Thursday, September 12, 2013 22:42:52

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	258097				ug/L
Li	7	33703	10.8435	0.1269	1.17	ug/L
Be	9	8	-0.0126	0.0093	74.19	ug/L
[> Sc	45	185558				ug/L
V	51	964	0.0445	0.0216	48.55	ug/L
Cr	52	2930	0.0478	0.0259	54.11	ug/L
Mn	55	255471	54.1669	1.1344	2.09	ug/L
[Cr	59	13453	4.7429	0.0791	1.67	ug/L
Ni	60	1269	2.1583	0.0530	2.46	ug/L
Cu	63	453	0.1800	0.0059	3.27	ug/L
Zn	66	2156	4.9413	0.1223	2.47	ug/L
[> Ge	72	99804				ug/L
As	75	3275	6.8469	0.1068	1.56	ug/L
Br	79	6918				ug/L
Se	82	4	0.1274	0.2100	164.78	ug/L
Kr	82	6				ug/L
Kr	83	48				ug/L
[Kr	84	-7002				ug/L
Kr	86	534695				ug/L
Sr	88	6098335	1185.9396	30.9037	2.61	ug/L
[> Y	89	645222				ug/L
[Mo	98	8328	6.0832	0.1121	1.84	ug/L
Ag	107	44	-0.0052	0.0082	157.48	ug/L
Cd	111	383	0.0167	0.0547	326.92	ug/L
[> In	115	301743				ug/L
Sn	118	100	0.0273	0.0087	31.90	ug/L
Sb	121	230	0.1071	0.0205	19.13	ug/L
[Ba	135	47007	104.5871	1.3638	1.30	ug/L
[> Tb	159	786805				ug/L
Tl	205	54	-0.0066	0.0074	111.86	ug/L
Pb	208	321	0.0022	0.0076	354.70	ug/L
Bi	209	448454				ug/L

Sample ID: 480-45585-B-10-B

Report Date/Time: Friday, September 13, 2013 11:37:03

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		97.178			
	Li	7					
	Be	9					
[>	Sc	45		93.138			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		79.898			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		80.056			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		81.403			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		86.123			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Sr 88 Upper, S, EEE	Sr	88	

ICP-MS Report

Sample ID: 480-45585-B-11-B

Sample Date/Time: Thursday, September 12, 2013 22:48:21

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	259614				ug/L
Li	7	30360	8.8800	0.6700	7.55	ug/L
Be	9	7	-0.0140	0.0055	39.49	ug/L
[> Sc	45	182361				ug/L
V	51	894	0.0293	0.0487	166.05	ug/L
Cr	52	3120	0.1296	0.0304	23.49	ug/L
Mn	55	130436	27.6153	0.4024	1.46	ug/L
[Cr	59	759	0.2410	0.0100	4.15	ug/L
Ni	60	2166	3.7030	0.0629	1.70	ug/L
Cu	63	737	0.4002	0.0195	4.87	ug/L
Zn	66	1031	2.2059	0.0120	0.54	ug/L
[> Ge	72	100446				ug/L
As	75	1315	2.6112	0.0498	1.91	ug/L
Br	79	23198				ug/L
Se	82	-1	0.0106	0.0754	712.57	ug/L
Kr	82	-62				ug/L
Kr	83	60				ug/L
[Kr	84	-6499				ug/L
Kr	86	516081				ug/L
Sr	88	5881410	1129.3030	27.0579	2.40	ug/L
[> Y	89	653259				ug/L
[Mo	98	2701	1.9612	0.0640	3.26	ug/L
Ag	107	31	-0.0122	0.0008	6.81	ug/L
Cd	111	333	-0.0815	0.0048	5.86	ug/L
[> In	115	301231				ug/L
Sn	118	63	0.0022	0.0023	105.12	ug/L
Sb	121	125	0.0502	0.0094	18.73	ug/L
[Ba	135	73195	162.1657	2.9215	1.80	ug/L
[> Tb	159	790400				ug/L
Tl	205	22	-0.0146	0.0013	9.14	ug/L
Pb	208	202	-0.0197	0.0009	4.74	ug/L
Bi	209	435854				ug/L

Sample ID: 480-45585-B-11-B

Report Date/Time: Friday, September 13, 2013 11:37:05

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		97.750			
	Li	7					
	Be	9					
[>	Sc	45		91.533			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		80.413			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		81.053			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		81.266			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		86.516			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Sr 88 Upper, S, EEE	Sr	88	

ICP-MS Report

Sample ID: 480-45585-B-12-B

Sample Date/Time: Thursday, September 12, 2013 22:53:51

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	265897				ug/L
Li	7	38644	12.9847	0.2657	2.05	ug/L
Be	9	8	-0.0130	0.0013	9.94	ug/L
[> Sc	45	187570				ug/L
V	51	727	-0.0246	0.0143	58.01	ug/L
Cr	52	3347	0.1745	0.0089	5.10	ug/L
Mn	55	38544	7.1510	0.2339	3.27	ug/L
[Co	59	2202	0.7339	0.0334	4.55	ug/L
Ni	60	4411	7.4548	0.1684	2.26	ug/L
Cu	63	1394	0.8923	0.0306	3.43	ug/L
Zn	66	3326	7.5541	0.0945	1.25	ug/L
[> Ge	72	102533				ug/L
As	75	6273	12.9441	0.5406	4.18	ug/L
Br	79	29518				ug/L
Se	82	5	0.1430	0.0480	33.57	ug/L
Kr	82	-82				ug/L
Kr	83	55				ug/L
[Kr	84	-8282				ug/L
Kr	86	627478				ug/L
Sr	88	7201903	1360.8686	14.9049	1.10	ug/L
[> Y	89	663859				ug/L
[Mo	98	18681	13.5286	0.1181	0.87	ug/L
Ag	107	27	-0.0141	0.0008	5.96	ug/L
Cd	111	336	-0.0843	0.0396	46.94	ug/L
[> In	115	305092				ug/L
Sn	118	78	0.0116	0.0025	21.87	ug/L
Sb	121	140	0.0577	0.0022	3.82	ug/L
[Ba	135	55918	123.6164	2.3100	1.87	ug/L
[> Tb	159	791886				ug/L
Tl	205	24	-0.0141	0.0006	3.96	ug/L
Pb	208	404	0.0171	0.0003	1.96	ug/L
Bi	209	442253				ug/L

Sample ID: 480-45585-B-12-B

Report Date/Time: Friday, September 13, 2013 11:37:06

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		100.115			
	Li	7					
	Be	9					
[>	Sc	45		94.148			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		82.083			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		82.368			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		82.307			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		86.679			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Sr 88 Upper, S, EEE	Sr	88	

ICP-MS Report

Sample ID: rinse

Sample Date/Time: Thursday, September 12, 2013 22:59:22

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	280609				ug/L
Li	7	15667	0.0225	0.1512	672.26	ug/L
Be	9	6	-0.0180	0.0021	11.48	ug/L
[> Sc	45	177435				ug/L
V	51	1105	0.0990	0.0053	5.39	ug/L
Cr	52	3389	0.2524	0.0316	12.51	ug/L
Mn	55	5309	0.0987	0.0197	19.96	ug/L
[Cr	59	44	-0.0120	0.0004	3.30	ug/L
Ni	60	56	0.0258	0.0041	16.09	ug/L
Cu	63	246	0.0018	0.0144	780.58	ug/L
Zn	66	151	0.0675	0.0328	48.58	ug/L
[> Ge	72	108485				ug/L
As	75	96	-0.0113	0.0148	131.42	ug/L
Br	79	1267				ug/L
Se	82	-1	0.0149	0.1432	960.76	ug/L
Kr	82	28				ug/L
Kr	83	56				ug/L
[Kr	84	271				ug/L
Kr	86	471				ug/L
Sr	88	3463	0.5363	0.1307	24.38	ug/L
[> Y	89	700131				ug/L
[Mo	98	38	0.0030	0.0055	184.89	ug/L
Ag	107	31	-0.0130	0.0019	14.45	ug/L
Cd	111	403	0.0022	0.0534	2442.69	ug/L
[> In	115	324104				ug/L
Sn	118	45	-0.0126	0.0051	40.72	ug/L
Sb	121	100	0.0325	0.0042	13.01	ug/L
[Ba	135	63	0.0665	0.0208	31.30	ug/L
[> Tb	159	808438				ug/L
Tl	205	24	-0.0142	0.0014	9.98	ug/L
Pb	208	270	-0.0084	0.0017	19.90	ug/L
Bi	209	475804				ug/L

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:37:07

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		105.655			
	Li	7					
	Be	9					
[>	Sc	45		89.061			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		86.848			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		86.869			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		87.436			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		88.490			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:37:07

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ICP-MS Report

Sample ID: rinse

Sample Date/Time: Thursday, September 12, 2013 23:04:51

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	275951				ug/L
Li	7	15387	0.0117	0.0548	468.46	ug/L
Be	9	6	-0.0169	0.0008	4.69	ug/L
[> Sc	45	179040				ug/L
V	51	1092	0.0924	0.0187	20.27	ug/L
Cr	52	3398	0.2448	0.0183	7.48	ug/L
Mn	55	5200	0.0636	0.0268	42.06	ug/L
[Cr	59	43	-0.0121	0.0025	20.49	ug/L
Ni	60	46	0.0109	0.0092	84.44	ug/L
Cu	63	290	0.0356	0.0127	35.67	ug/L
Zn	66	114	-0.0127	0.0086	67.60	ug/L
[> Ge	72	107234				ug/L
As	75	103	0.0057	0.0321	560.62	ug/L
Br	79	849				ug/L
Se	82	-2	-0.0215	0.2002	930.96	ug/L
Kr	82	26				ug/L
Kr	83	54				ug/L
[Kr	84	256				ug/L
Kr	86	685				ug/L
Sr	88	5677	0.9420	0.0860	9.13	ug/L
[> Y	89	692863				ug/L
[Mo	98	23	-0.0072	0.0026	36.68	ug/L
Ag	107	29	-0.0141	0.0016	11.19	ug/L
Cd	111	400	-0.0045	0.0300	670.48	ug/L
[> In	115	323858				ug/L
Sn	118	35	-0.0194	0.0023	11.79	ug/L
Sb	121	37	0.0005	0.0027	535.37	ug/L
[Ba	135	102	0.1523	0.0208	13.65	ug/L
[> Tb	159	805340				ug/L
Tl	205	19	-0.0155	0.0016	10.42	ug/L
Pb	208	251	-0.0116	0.0041	35.10	ug/L
Bi	209	471202				ug/L

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:37:09

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		103.901			
	Li	7					
	Be	9					
[>	Sc	45		89.866			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		85.847			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		85.967			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		87.370			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		88.151			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:37:09

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ICP-MS Report

Sample ID: CCV-1582170

Sample Date/Time: Thursday, September 12, 2013 23:10:21

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	277103				ug/L
Li	7	63623	25.1790	0.5860	2.33	ug/L
Be	9	11739	24.3188	0.2720	1.12	ug/L
[> Sc	45	187687				ug/L
V	51	84533	23.5906	2.2796	9.66	ug/L
Cr	52	73743	23.5109	2.7193	11.57	ug/L
Mn	55	115892	23.8578	2.4983	10.47	ug/L
[Cr	59	74976	25.4243	0.4536	1.78	ug/L
Ni	60	15615	26.1135	0.5081	1.95	ug/L
Cu	63	33822	25.3572	0.0724	0.29	ug/L
Zn	66	11182	25.6085	0.3627	1.42	ug/L
[> Ge	72	104214				ug/L
As	75	12253	25.0507	0.1401	0.56	ug/L
Br	79	659				ug/L
Se	82	1165	25.0965	0.5500	2.19	ug/L
Kr	82	185				ug/L
Kr	83	64				ug/L
[Kr	84	200				ug/L
Kr	86	14419				ug/L
Sr	88	139085	25.3008	0.2650	1.05	ug/L
[> Y	89	687285				ug/L
[Mo	98	35058	24.9558	0.7008	2.81	ug/L
Ag	107	48819	24.5281	0.3419	1.39	ug/L
Cd	111	13278	25.0614	0.2772	1.11	ug/L
[> In	115	310684				ug/L
Sn	118	37312	25.1791	0.2825	1.12	ug/L
Sb	121	47456	25.1931	0.2843	1.13	ug/L
[Ba	135	10910	23.8736	0.3468	1.45	ug/L
[> Tb	159	797916				ug/L
Tl	205	100758	25.4152	0.3043	1.20	ug/L
Pb	208	139010	25.1090	0.2516	1.00	ug/L
Bi	209	464614				ug/L

Sample ID: CCV-1582170

Report Date/Time: Friday, September 13, 2013 11:37:10

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		104.335			
	Li	7	100.716				
	Be	9	97.275				
[>	Sc	45		94.207			
	V	51	94.363				
	Cr	52	94.043				
	Mn	55	95.431				
	Co	59	101.697				
	Ni	60	104.454				
	Cu	63	101.429				
	Zn	66	102.434				
[>	Ge	72		83.429			
	As	75	100.203				
	Br	79					
	Se	82	100.386				
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88	101.203				
[>	Y	89		85.275			
	Mo	98	99.823				
	Ag	107	98.112				
	Cd	111	100.246				
[>	In	115		83.816			
	Sn	118	100.716				
	Sb	121	100.772				
	Ba	135	95.494				
[>	Tb	159		87.339			
	Tl	205	101.661				
	Pb	208	100.436				
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCV-1582170

Report Date/Time: Friday, September 13, 2013 11:37:10

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ICP-MS Report

Sample ID: CCB-1540064

Sample Date/Time: Thursday, September 12, 2013 23:16:56

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	276637				ug/L
Li	7	15670	0.1402	0.1378	98.31	ug/L
Be	9	12	-0.0040	0.0092	231.38	ug/L
[> Sc	45	175034				ug/L
V	51	1090	0.0991	0.0066	6.63	ug/L
Cr	52	3174	0.1926	0.0186	9.65	ug/L
Mn	55	5096	0.0662	0.0320	48.39	ug/L
[Co	59	104	0.0083	0.0116	139.54	ug/L
Ni	60	50	0.0192	0.0076	39.54	ug/L
Cu	63	251	0.0104	0.0083	79.51	ug/L
Zn	66	115	-0.0050	0.0081	161.88	ug/L
[> Ge	72	105506				ug/L
As	75	121	0.0466	0.0474	101.74	ug/L
Br	79	619				ug/L
Se	82	6	0.1524	0.1704	111.80	ug/L
Kr	82	33				ug/L
Kr	83	56				ug/L
[Kr	84	247				ug/L
Kr	86	245				ug/L
Sr	88	1300	0.1511	0.1260	83.37	ug/L
[> Y	89	689925				ug/L
[Mo	98	58	0.0175	0.0157	89.58	ug/L
Ag	107	85	0.0136	0.0162	119.14	ug/L
Cd	111	416	0.0402	0.0310	77.22	ug/L
[> In	115	318009				ug/L
Sn	118	85	0.0144	0.0162	112.35	ug/L
Sb	121	380	0.1788	0.0365	20.39	ug/L
[Ba	135	44	0.0275	0.0448	162.75	ug/L
[> Tb	159	801645				ug/L
Tl	205	125	0.0111	0.0142	127.64	ug/L
Pb	208	361	0.0085	0.0155	182.16	ug/L
Bi	209	471830				ug/L

Sample ID: CCB-1540064

Report Date/Time: Friday, September 13, 2013 11:37:11

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		104.159			
	Li	7					
	Be	9					
[>	Sc	45		87.856			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		84.464			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		85.603			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		85.792			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		87.747			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCB-1540064

Report Date/Time: Friday, September 13, 2013 11:37:11

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ICP-MS Report

Sample ID: rinse

Sample Date/Time: Thursday, September 12, 2013 23:22:32

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	277539				ug/L
Li	7	15223	-0.1198	0.1487	124.10	ug/L
Be	9	5	-0.0202	0.0027	13.45	ug/L
[> Sc	45	174594				ug/L
V	51	962	0.0611	0.0091	14.85	ug/L
Cr	52	3105	0.1708	0.0033	1.91	ug/L
Mn	55	5100	0.0701	0.0234	33.37	ug/L
[Cr	59	45	-0.0114	0.0008	7.07	ug/L
Ni	60	58	0.0329	0.0128	38.73	ug/L
Cu	63	251	0.0098	0.0058	59.24	ug/L
Zn	66	160	0.0981	0.0156	15.91	ug/L
[> Ge	72	105490				ug/L
As	75	108	0.0190	0.0310	162.72	ug/L
Br	79	592				ug/L
Se	82	4	0.1106	0.0955	86.32	ug/L
Kr	82	37				ug/L
Kr	83	59				ug/L
[Kr	84	255				ug/L
Kr	86	151				ug/L
Sr	88	437	-0.0053	0.0152	287.91	ug/L
[> Y	89	689650				ug/L
[Mo	98	19	-0.0095	0.0019	19.63	ug/L
Ag	107	37	-0.0102	0.0017	16.66	ug/L
Cd	111	434	0.0631	0.0292	46.24	ug/L
[> In	115	322588				ug/L
Sn	118	42	-0.0143	0.0014	9.92	ug/L
Sb	121	156	0.0615	0.0063	10.22	ug/L
[Ba	135	28	-0.0071	0.0056	79.85	ug/L
[> Tb	159	797999				ug/L
Tl	205	34	-0.0117	0.0009	8.09	ug/L
Pb	208	274	-0.0071	0.0014	19.44	ug/L
Bi	209	464315				ug/L

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:37:13

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		104.499			
	Li	7					
	Be	9					
[>	Sc	45		87.635			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		84.451			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		85.569			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		87.027			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		87.348			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:37:13

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ICP-MS Report

Sample ID: 460-62167-A-21-B@10

Sample Date/Time: Thursday, September 12, 2013 23:28:04

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	271767				ug/L
Li	7	18823	1.9666	0.1038	5.28	ug/L
Be	9	17	0.0054	0.0126	231.21	ug/L
[> Sc	45	184655				ug/L
V	51	2209	0.4021	0.1503	37.38	ug/L
Cr	52	25625	7.6457	0.2817	3.68	ug/L
Mn	55	49956	9.7593	0.0905	0.93	ug/L
[Cr	59	1413	0.4379	0.0172	3.93	ug/L
Ni	60	5110	8.2317	0.1293	1.57	ug/L
Cu	63	41097	29.8600	0.2423	0.81	ug/L
Zn	66	42383	94.6820	1.1615	1.23	ug/L
[> Ge	72	107644				ug/L
As	75	234	0.2656	0.1449	54.56	ug/L
Br	79	3397				ug/L
Se	82	-4	-0.0526	0.1741	330.69	ug/L
Kr	82	-246				ug/L
Kr	83	69				ug/L
[Kr	84	219				ug/L
Kr	86	5967				ug/L
Sr	88	57945	10.4744	0.7397	7.06	ug/L
[> Y	89	688693				ug/L
[Mo	98	13273	9.6526	0.0607	0.63	ug/L
Ag	107	88	0.0170	0.0123	72.06	ug/L
Cd	111	186	-0.3795	0.1361	35.87	ug/L
[> In	115	303578				ug/L
Sn	118	1903	1.2745	0.0319	2.51	ug/L
Sb	121	1182	0.6243	0.0206	3.31	ug/L
[Ba	135	1385	3.0242	0.0834	2.76	ug/L
[> Tb	159	784334				ug/L
Tl	205	106	0.0069	0.0188	272.12	ug/L
Pb	208	26397	4.8059	0.1150	2.39	ug/L
Bi	209	418544				ug/L

Sample ID: 460-62167-A-21-B@10

Report Date/Time: Friday, September 13, 2013 11:37:14

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		102.326			
	Li	7					
	Be	9					
[>	Sc	45		92.685			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		86.174			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		85.450			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		81.898			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		85.852			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: rinse

Sample Date/Time: Thursday, September 12, 2013 23:33:36

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	282092				ug/L
Li	7	15473	-0.1192	0.1426	119.65	ug/L
Be	9	5	-0.0203	0.0036	17.57	ug/L
[> Sc	45	176718				ug/L
V	51	952	0.0549	0.0089	16.22	ug/L
Cr	52	3001	0.1216	0.0230	18.95	ug/L
Mn	55	5013	0.0363	0.0120	33.04	ug/L
[Cr	59	38	-0.0138	0.0018	13.18	ug/L
Ni	60	30	-0.0148	0.0149	101.05	ug/L
Cu	63	273	0.0251	0.0169	67.21	ug/L
Zn	66	146	0.0624	0.0344	55.12	ug/L
[> Ge	72	106244				ug/L
As	75	71	-0.0556	0.0316	56.96	ug/L
Br	79	584				ug/L
Se	82	-6	-0.0968	0.0813	84.02	ug/L
Kr	82	24				ug/L
Kr	83	58				ug/L
[Kr	84	248				ug/L
Kr	86	136				ug/L
Sr	88	325	-0.0261	0.0022	8.42	ug/L
[> Y	89	694247				ug/L
[Mo	98	26	-0.0050	0.0006	12.37	ug/L
Ag	107	26	-0.0156	0.0011	6.98	ug/L
Cd	111	414	0.0329	0.0673	204.44	ug/L
[> In	115	319473				ug/L
Sn	118	34	-0.0199	0.0002	1.13	ug/L
Sb	121	59	0.0122	0.0050	40.67	ug/L
[Ba	135	25	-0.0154	0.0120	78.06	ug/L
[> Tb	159	814672				ug/L
Tl	205	33	-0.0122	0.0053	43.20	ug/L
Pb	208	288	-0.0056	0.0035	62.13	ug/L
Bi	209	480464				ug/L

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:37:16

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		106.213			
	Li	7					
	Be	9					
[>	Sc	45		88.701			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		85.054			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		86.139			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		86.187			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		89.173			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: rinse

Sample Date/Time: Thursday, September 12, 2013 23:39:08

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

	Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[>	Li-6	6	275971				ug/L
	Li	7	15260	-0.0550	0.0647	117.52	ug/L
	Be	9	6	-0.0182	0.0071	39.20	ug/L
[>	Sc	45	177791				ug/L
	V	51	948	0.0521	0.0249	47.66	ug/L
	Cr	52	3074	0.1404	0.0207	14.77	ug/L
	Mn	55	4994	0.0253	0.0188	74.10	ug/L
	Co	59	41	-0.0125	0.0005	3.59	ug/L
	Ni	60	37	-0.0023	0.0082	347.73	ug/L
	Cu	63	251	0.0108	0.0108	99.51	ug/L
	Zn	66	130	0.0308	0.0146	47.40	ug/L
>	Ge	72	105016				ug/L
	As	75	88	-0.0210	0.0127	60.44	ug/L
	Br	79	525				ug/L
	Se	82	0	0.0268	0.1790	667.66	ug/L
	Kr	82	29				ug/L
	Kr	83	54				ug/L
	Kr	84	261				ug/L
	Kr	86	138				ug/L
	Sr	88	304	-0.0289	0.0017	5.87	ug/L
>	Y	89	682973				ug/L
	Mo	98	13	-0.0137	0.0021	15.22	ug/L
	Ag	107	27	-0.0147	0.0020	13.48	ug/L
	Cd	111	416	0.0383	0.0398	103.72	ug/L
>	In	115	318558				ug/L
	Sn	118	31	-0.0217	0.0011	5.02	ug/L
	Sb	121	53	0.0091	0.0042	46.19	ug/L
	Ba	135	27	-0.0112	0.0140	124.80	ug/L
>	Tb	159	800099				ug/L
	Tl	205	20	-0.0151	0.0007	4.58	ug/L
	Pb	208	265	-0.0088	0.0013	15.11	ug/L
	Bi	209	467654				ug/L

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:37:17

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		103.908			
	Li	7					
	Be	9					
[>	Sc	45		89.239			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		84.071			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		84.740			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		85.940			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		87.578			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:37:17

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ICP-MS Report

Sample ID: rinse

Sample Date/Time: Thursday, September 12, 2013 23:44:37

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	277950				ug/L
Li	7	15631	0.0803	0.1190	148.21	ug/L
[Be	9	4	-0.0206	0.0015	7.25	ug/L
[> Sc	45	178699				ug/L
V	51	890	0.0333	0.0189	56.71	ug/L
Cr	52	3065	0.1319	0.0090	6.79	ug/L
[Mn	55	5087	0.0405	0.0190	46.91	ug/L
[Co	59	33	-0.0152	0.0007	4.35	ug/L
Ni	60	42	0.0058	0.0096	164.84	ug/L
Cu	63	293	0.0411	0.0173	42.24	ug/L
Zn	66	116	-0.0032	0.0159	501.26	ug/L
[> Ge	72	105579				ug/L
As	75	98	-0.0003	0.0117	3610.36	ug/L
Br	79	486				ug/L
Se	82	5	0.1240	0.1296	104.58	ug/L
Kr	82	32				ug/L
[Kr	83	51				ug/L
[Kr	84	262				ug/L
Kr	86	138				ug/L
Sr	88	333	-0.0235	0.0024	10.41	ug/L
[> Y	89	682246				ug/L
[Mo	98	10	-0.0162	0.0010	5.95	ug/L
Ag	107	24	-0.0165	0.0024	14.48	ug/L
Cd	111	377	-0.0388	0.0076	19.69	ug/L
[> In	115	320654				ug/L
Sn	118	37	-0.0175	0.0053	30.24	ug/L
[Sb	121	51	0.0081	0.0019	23.11	ug/L
[Ba	135	29	-0.0057	0.0048	84.11	ug/L
[> Tb	159	805249				ug/L
Tl	205	16	-0.0163	0.0011	6.94	ug/L
[Pb	208	265	-0.0091	0.0009	10.10	ug/L
Bi	209	473433				ug/L

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:37:18

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		104.654			
	Li	7					
	Be	9					
[>	Sc	45		89.695			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		84.522			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		84.650			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		86.505			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		88.141			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

ICP-MS Report

Sample ID: CCV-1582170

Sample Date/Time: Thursday, September 12, 2013 23:50:08

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	274676				ug/L
Li	7	62216	24.7342	0.3362	1.36	ug/L
Be	9	11738	24.5399	0.8688	3.54	ug/L
[> Sc	45	176365				ug/L
V	51	86011	25.4014	0.3555	1.40	ug/L
Cr	52	74218	25.0623	0.1092	0.44	ug/L
Mn	55	114646	24.9946	0.5877	2.35	ug/L
[Cr	59	74823	25.4551	0.5817	2.29	ug/L
Ni	60	15013	25.1825	0.8825	3.50	ug/L
Cu	63	33602	25.2719	0.6531	2.58	ug/L
Zn	66	10951	25.1477	0.2773	1.10	ug/L
[> Ge	72	103916				ug/L
As	75	12095	24.7991	0.2839	1.14	ug/L
Br	79	498				ug/L
Se	82	1131	24.4314	0.5243	2.15	ug/L
Kr	82	135				ug/L
Kr	83	55				ug/L
[Kr	84	187				ug/L
Kr	86	14272				ug/L
Sr	88	136647	25.0736	0.2131	0.85	ug/L
[> Y	89	681280				ug/L
[Mo	98	34906	24.7930	0.4120	1.66	ug/L
Ag	107	48570	24.3532	0.1113	0.46	ug/L
Cd	111	13187	24.8365	0.2748	1.11	ug/L
[> In	115	311264				ug/L
Sn	118	36861	24.8297	0.1809	0.73	ug/L
Sb	121	46645	24.7164	0.3040	1.23	ug/L
[Ba	135	10701	23.5871	0.1545	0.65	ug/L
[> Tb	159	792196				ug/L
Tl	205	101107	25.6851	0.7438	2.90	ug/L
Pb	208	139023	25.2905	0.3168	1.25	ug/L
Bi	209	464982				ug/L

Sample ID: CCV-1582170

Report Date/Time: Friday, September 13, 2013 11:37:20

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		103.421			
	Li	7	98.937				
	Be	9	98.160				
[>	Sc	45		88.524			
	V	51	101.606				
	Cr	52	100.249				
	Mn	55	99.978				
	Co	59	101.820				
	Ni	60	100.730				
	Cu	63	101.088				
	Zn	66	100.591				
>	Ge	72		83.191			
	As	75	99.196				
	Br	79					
	Se	82	97.726				
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88	100.294				
>	Y	89		84.530			
	Mo	98	99.172				
	Ag	107	97.413				
	Cd	111	99.346				
>	In	115		83.972			
	Sn	118	99.319				
	Sb	121	98.866				
	Ba	135	94.348				
>	Tb	159		86.713			
	Tl	205	102.740				
	Pb	208	101.162				
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCV-1582170

Report Date/Time: Friday, September 13, 2013 11:37:20

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ICP-MS Report

Sample ID: CCB-1540064

Sample Date/Time: Thursday, September 12, 2013 23:56:41

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	273524				ug/L
Li	7	15505	0.1444	0.2019	139.88	ug/L
Be	9	7	-0.0144	0.0063	43.54	ug/L
[> Sc	45	179306				ug/L
V	51	997	0.0639	0.0076	11.82	ug/L
Cr	52	2971	0.0964	0.0359	37.23	ug/L
Mn	55	4968	0.0102	0.0520	508.71	ug/L
[Cr	59	60	-0.0066	0.0073	110.90	ug/L
Ni	60	37	-0.0034	0.0075	218.06	ug/L
Cu	63	255	0.0117	0.0253	215.75	ug/L
Zn	66	125	0.0150	0.0395	262.72	ug/L
[> Ge	72	106245				ug/L
As	75	101	0.0040	0.0135	341.22	ug/L
Br	79	518				ug/L
Se	82	-1	0.0061	0.1411	2315.08	ug/L
Kr	82	34				ug/L
Kr	83	58				ug/L
[Kr	84	259				ug/L
Kr	86	142				ug/L
Sr	88	334	-0.0236	0.0104	44.03	ug/L
[> Y	89	684113				ug/L
[Mo	98	36	0.0024	0.0077	321.13	ug/L
Ag	107	55	-0.0011	0.0071	660.63	ug/L
Cd	111	400	0.0177	0.0270	152.35	ug/L
[> In	115	314839				ug/L
Sn	118	63	-0.0001	0.0071	9257.76	ug/L
Sb	121	316	0.1466	0.0386	26.31	ug/L
[Ba	135	36	0.0095	0.0079	83.66	ug/L
[> Tb	159	800000				ug/L
Tl	205	64	-0.0043	0.0083	193.92	ug/L
Pb	208	305	-0.0017	0.0078	459.50	ug/L
Bi	209	472873				ug/L

Sample ID: CCB-1540064

Report Date/Time: Friday, September 13, 2013 11:37:21

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		102.987			
	Li	7					
	Be	9					
[>	Sc	45		90.000			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		85.055			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		84.881			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		84.937			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		87.567			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCB-1540064

Report Date/Time: Friday, September 13, 2013 11:37:21

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ICP-MS Report

Sample ID: rinseC

Sample Date/Time: Friday, September 13, 2013 00:02:09

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	273749				ug/L
Li	7	17377	1.1362	0.3561	31.34	ug/L
[Be	9	338	0.6804	0.0352	5.17	ug/L
[> Sc	45	178367				ug/L
V	51	6266	1.6180	0.0170	1.05	ug/L
Cr	52	7727	1.7479	0.0541	3.10	ug/L
[Mn	55	9975	1.1425	0.0539	4.72	ug/L
[Co	59	1018	0.3166	0.0027	0.87	ug/L
Ni	60	1239	1.9968	0.0342	1.71	ug/L
Cu	63	1828	1.1931	0.0287	2.40	ug/L
Zn	66	5228	11.7379	0.1304	1.11	ug/L
[> Ge	72	105011				ug/L
As	75	543	0.9087	0.0426	4.69	ug/L
Br	79	519				ug/L
Se	82	45	0.9854	0.1260	12.78	ug/L
Kr	82	31				ug/L
[Kr	83	56				ug/L
[Kr	84	257				ug/L
Kr	86	663				ug/L
Sr	88	5602	0.9259	0.0234	2.53	ug/L
[> Y	89	695355				ug/L
[Mo	98	1439	0.9861	0.0321	3.26	ug/L
Ag	107	1067	0.5001	0.0098	1.96	ug/L
Cd	111	664	0.5205	0.0952	18.30	ug/L
[> In	115	315846				ug/L
Sn	118	3248	2.1187	0.0447	2.11	ug/L
[Sb	121	2353	1.2111	0.0403	3.33	ug/L
[Ba	135	518	1.0479	0.0751	7.16	ug/L
[> Tb	159	811050				ug/L
Tl	205	908	0.2052	0.0047	2.27	ug/L
[Pb	208	6249	1.0561	0.0287	2.72	ug/L
Bi	209	462751				ug/L

Sample ID: rinseC

Report Date/Time: Friday, September 13, 2013 11:37:22

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		103.072			
	Li	7					
	Be	9					
[>	Sc	45		89.528			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		84.067			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		86.276			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		85.208			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		88.776			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: rinseC

Report Date/Time: Friday, September 13, 2013 11:37:22

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ICP-MS Report

Sample ID: rinseA

Sample Date/Time: Friday, September 13, 2013 00:08:07

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	242288				ug/L
Li	7	13167	-0.1913	0.1577	82.44	ug/L
Be	9	10	-0.0057	0.0071	125.51	ug/L
[> Sc	45	160226				ug/L
V	51	454	-0.0791	0.0426	53.86	ug/L
Cr	52	3938	0.5907	0.0762	12.91	ug/L
Mn	55	8776	1.0961	0.0509	4.64	ug/L
[Co	59	2291	0.7764	0.0202	2.61	ug/L
Ni	60	1968	3.3430	0.0748	2.24	ug/L
Cu	63	2273	1.5940	0.0498	3.12	ug/L
Zn	66	2175	4.9279	0.2161	4.38	ug/L
[> Ge	72	100952				ug/L
As	75	179	0.1806	0.0197	10.93	ug/L
Br	79	2128				ug/L
Se	82	-18	-0.3814	0.1421	37.25	ug/L
Kr	82	-135				ug/L
Kr	83	94				ug/L
[Kr	84	241				ug/L
Kr	86	397				ug/L
Sr	88	2050	0.3223	0.0121	3.74	ug/L
[> Y	89	631746				ug/L
[Mo	98	1203823	924.6268	12.1557	1.31	ug/L
Ag	107	92	0.0219	0.0034	15.39	ug/L
Cd	111	581	0.4677	0.0327	7.00	ug/L
[> In	115	288139				ug/L
Sn	118	158	0.0735	0.0131	17.78	ug/L
Sb	121	578	0.3124	0.0155	4.95	ug/L
[Ba	135	1483	3.3418	0.0362	1.08	ug/L
[> Tb	159	761479				ug/L
Tl	205	70	-0.0019	0.0005	29.16	ug/L
Pb	208	1048	0.1423	0.0021	1.47	ug/L
Bi	209	435365				ug/L

Sample ID: rinseA

Report Date/Time: Friday, September 13, 2013 11:37:24

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		91.226			
	Li	7					
	Be	9					
[>	Sc	45		80.423			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		80.817			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		78.384			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		77.733			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		83.350			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mo 98 Upper, S, EEE	Mo	98	

ICP-MS Report

Sample ID: rinseB

Sample Date/Time: Friday, September 13, 2013 00:14:04

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

	Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[>	Li-6	6	248413				ug/L
	Li	7	14074	0.1408	0.1635	116.10	ug/L
[	Be	9	8	-0.0123	0.0057	46.68	ug/L
[>	Sc	45	174762				ug/L
	V	51	69996	20.8259	0.2684	1.29	ug/L
	Cr	52	32159	10.4435	0.1851	1.77	ug/L
[	Mn	55	52524	10.9683	0.2555	2.33	ug/L
[	Co	59	60930	19.7840	0.2937	1.48	ug/L
	Ni	60	13668	21.8893	0.3307	1.51	ug/L
	Cu	63	14857	10.5639	0.1165	1.10	ug/L
	Zn	66	6324	13.7445	0.3221	2.34	ug/L
[>	Ge	72	108809				ug/L
	As	75	5100	9.8657	0.0473	0.48	ug/L
	Br	79	3630				ug/L
	Se	82	448	9.2713	0.2978	3.21	ug/L
	Kr	82	-96				ug/L
[	Kr	83	92				ug/L
[	Kr	84	267				ug/L
	Kr	86	420				ug/L
	Sr	88	2194	0.3239	0.0048	1.50	ug/L
[>	Y	89	673651				ug/L
[	Mo	98	1307655	951.8088	5.7944	0.61	ug/L
	Ag	107	19080	9.7769	0.1503	1.54	ug/L
	Cd	111	3066	5.3414	0.1621	3.04	ug/L
[>	In	115	304010				ug/L
	Sn	118	145	0.0583	0.0089	15.34	ug/L
[	Sb	121	1072	0.5634	0.0188	3.34	ug/L
[	Ba	135	1600	3.5586	0.0578	1.62	ug/L
[>	Tb	159	772427				ug/L
	Tl	205	298	0.0575	0.0034	5.88	ug/L
[	Pb	208	1320	0.1902	0.0070	3.70	ug/L
	Bi	209	439797				ug/L

Sample ID: rinseB

Report Date/Time: Friday, September 13, 2013 11:37:25

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		93.532			
	Li	7					
	Be	9					
[>	Sc	45		87.719			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	72		87.108			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
>	Y	89		83.583			
	Mo	98					
	Ag	107					
	Cd	111					
>	In	115		82.015			
	Sn	118					
	Sb	121					
	Ba	135					
>	Tb	159		84.549			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message
Mo 98 Upper, S, EEE	Mo	98	

ICP-MS Report

Sample ID: rinse

Sample Date/Time: Friday, September 13, 2013 00:20:03

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	248649				ug/L
Li	7	13527	-0.1840	0.2097	113.96	ug/L
[Be	9	5	-0.0190	0.0001	0.72	ug/L
[> Sc	45	168504				ug/L
V	51	732	-0.0000	0.0453	952972.30	ug/L
Cr	52	2362	-0.0618	0.0515	83.38	ug/L
[Mn	55	5274	0.1541	0.0293	19.04	ug/L
[Co	59	130	0.0179	0.0241	134.49	ug/L
Ni	60	136	0.1644	0.0241	14.63	ug/L
Cu	63	276	0.0310	0.0124	40.01	ug/L
Zn	66	351	0.5430	0.0337	6.22	ug/L
[> Ge	72	104305				ug/L
As	75	101	0.0077	0.0149	193.73	ug/L
Br	79	597				ug/L
Se	82	-7	-0.1179	0.0914	77.52	ug/L
Kr	82	27				ug/L
[Kr	83	55				ug/L
[Kr	84	253				ug/L
Kr	86	121				ug/L
Sr	88	320	-0.0259	0.0040	15.49	ug/L
[> Y	89	681418				ug/L
[Mo	98	2641	1.8308	1.1000	60.08	ug/L
Ag	107	67	0.0052	0.0103	196.07	ug/L
Cd	111	323	-0.1281	0.0329	25.69	ug/L
[> In	115	313453				ug/L
Sn	118	54	-0.0060	0.0032	53.56	ug/L
[Sb	121	70	0.0183	0.0030	16.45	ug/L
[Ba	135	33	0.0016	0.0081	500.62	ug/L
[> Tb	159	804376				ug/L
Tl	205	16	-0.0163	0.0010	6.00	ug/L
[Pb	208	302	-0.0025	0.0007	29.81	ug/L
Bi	209	473136				ug/L

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:37:27

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		93.621			
	Li	7					
	Be	9					
[>	Sc	45		84.578			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		83.502			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		84.547			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		84.563			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		88.046			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:37:27

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ICP-MS Report

Sample ID: rinse

Sample Date/Time: Friday, September 13, 2013 00:26:02

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	257341				ug/L
Li	7	14322	-0.0027	0.0670	2502.90	ug/L
Be	9	5	-0.0179	0.0047	26.44	ug/L
[> Sc	45	173962				ug/L
V	51	777	0.0065	0.0237	363.28	ug/L
Cr	52	2597	-0.0052	0.0357	683.62	ug/L
Mn	55	5266	0.1128	0.0044	3.89	ug/L
[Co	59	46	-0.0113	0.0025	22.12	ug/L
Ni	60	52	0.0199	0.0067	33.75	ug/L
Cu	63	267	0.0159	0.0072	45.29	ug/L
Zn	66	290	0.3747	0.0208	5.55	ug/L
[> Ge	72	108806				ug/L
As	75	92	-0.0180	0.0138	76.95	ug/L
Br	79	540				ug/L
Se	82	-11	-0.2013	0.0091	4.51	ug/L
Kr	82	29				ug/L
Kr	83	54				ug/L
[Kr	84	256				ug/L
Kr	86	131				ug/L
Sr	88	311	-0.0287	0.0030	10.36	ug/L
[> Y	89	696285				ug/L
[Mo	98	271	0.1613	0.0235	14.55	ug/L
Ag	107	35	-0.0112	0.0016	14.13	ug/L
Cd	111	340	-0.1197	0.0457	38.21	ug/L
[> In	115	325929				ug/L
Sn	118	54	-0.0071	0.0050	70.89	ug/L
Sb	121	54	0.0092	0.0006	6.77	ug/L
[Ba	135	25	-0.0155	0.0016	10.59	ug/L
[> Tb	159	814734				ug/L
Tl	205	12	-0.0173	0.0011	6.29	ug/L
Pb	208	279	-0.0072	0.0007	10.07	ug/L
Bi	209	473873				ug/L

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:37:28

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		96.894			
	Li	7					
	Be	9					
[>	Sc	45		87.317			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
>	Ge	72		87.105			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
>	Y	89		86.392			
	Mo	98					
	Ag	107					
	Cd	111					
>	In	115		87.928			
	Sn	118					
	Sb	121					
	Ba	135					
>	Tb	159		89.180			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:37:28

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ICP-MS Report

Sample ID: CCV-1582170

Sample Date/Time: Friday, September 13, 2013 00:32:03

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	260239				ug/L
Li	7	60910	25.8248	0.1398	0.54	ug/L
[Be	9	11190	24.6868	0.4803	1.95	ug/L
[> Sc	45	174527				ug/L
V	51	88138	26.3093	0.3698	1.41	ug/L
Cr	52	75820	25.9034	0.0554	0.21	ug/L
[Mn	55	117042	25.8179	0.4320	1.67	ug/L
[Co	59	77863	25.6217	0.2734	1.07	ug/L
Ni	60	16003	25.9703	0.2790	1.07	ug/L
Cu	63	35091	25.5308	0.0759	0.30	ug/L
Zn	66	11431	25.4027	0.2711	1.07	ug/L
[> Ge	72	107395				ug/L
As	75	12604	25.0055	0.5133	2.05	ug/L
Br	79	521				ug/L
Se	82	1195	24.9836	0.3521	1.41	ug/L
Kr	82	217				ug/L
[Kr	83	58				ug/L
[Kr	84	202				ug/L
Kr	86	14984				ug/L
Sr	88	144750	25.5275	0.2651	1.04	ug/L
[> Y	89	709025				ug/L
[Mo	98	37122	25.5305	0.5063	1.98	ug/L
Ag	107	51240	24.8759	0.5114	2.06	ug/L
Cd	111	13629	24.8516	0.2242	0.90	ug/L
[> In	115	321497				ug/L
Sn	118	38505	25.1117	0.1768	0.70	ug/L
[Sb	121	48819	25.0424	0.3470	1.39	ug/L
[Ba	135	11297	24.3494	0.2446	1.00	ug/L
[> Tb	159	810122				ug/L
Tl	205	104060	25.8523	0.1264	0.49	ug/L
[Pb	208	143503	25.5309	0.1540	0.60	ug/L
Bi	209	471807				ug/L

Sample ID: CCV-1582170

Report Date/Time: Friday, September 13, 2013 11:37:29

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		97.985			
	Li	7	103.299				
	Be	9	98.747				
[>	Sc	45		87.601			
	V	51	105.237				
	Cr	52	103.613				
	Mn	55	103.271				
	Co	59	102.487				
	Ni	60	103.881				
	Cu	63	102.123				
	Zn	66	101.611				
[>	Ge	72		85.976			
	As	75	100.022				
	Br	79					
	Se	82	99.934				
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88	102.110				
[>	Y	89		87.972			
	Mo	98	102.122				
	Ag	107	99.504				
	Cd	111	99.406				
[>	In	115		86.733			
	Sn	118	100.447				
	Sb	121	100.169				
	Ba	135	97.398				
[>	Tb	159		88.675			
	Tl	205	103.409				
	Pb	208	102.123				
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCV-1582170

Report Date/Time: Friday, September 13, 2013 11:37:29

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ICP-MS Report

Sample ID: CCB-1540064

Sample Date/Time: Friday, September 13, 2013 00:38:39

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	256812				ug/L
Li	7	14404	0.0598	0.0800	133.90	ug/L
Be	9	10	-0.0070	0.0090	129.28	ug/L
[> Sc	45	176585				ug/L
V	51	914	0.0435	0.0129	29.68	ug/L
Cr	52	2705	0.0187	0.0067	36.04	ug/L
Mn	55	5061	0.0479	0.0400	83.52	ug/L
[Cr	59	103	0.0070	0.0207	296.16	ug/L
Ni	60	46	0.0095	0.0287	302.29	ug/L
Cu	63	250	0.0030	0.0125	420.14	ug/L
Zn	66	124	0.0057	0.0418	736.46	ug/L
[> Ge	72	108990				ug/L
As	75	111	0.0197	0.0362	183.46	ug/L
Br	79	524				ug/L
Se	82	8	0.1849	0.0925	50.03	ug/L
Kr	82	40				ug/L
Kr	83	60				ug/L
[Kr	84	277				ug/L
Kr	86	130				ug/L
Sr	88	342	-0.0242	0.0098	40.33	ug/L
[> Y	89	707903				ug/L
[Mo	98	473	0.2940	0.4530	154.08	ug/L
Ag	107	73	0.0071	0.0164	232.69	ug/L
Cd	111	378	-0.0393	0.0287	72.97	ug/L
[> In	115	321432				ug/L
Sn	118	69	0.0031	0.0139	447.80	ug/L
Sb	121	357	0.1643	0.0288	17.54	ug/L
[Ba	135	32	-0.0004	0.0142	3416.41	ug/L
[> Tb	159	816603				ug/L
Tl	205	90	0.0018	0.0150	830.35	ug/L
Pb	208	328	0.0013	0.0107	847.98	ug/L
Bi	209	472715				ug/L

Sample ID: CCB-1540064

Report Date/Time: Friday, September 13, 2013 11:37:31

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QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		96.695			
	Li	7					
	Be	9					
[>	Sc	45		88.634			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		87.252			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		87.833			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		86.715			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		89.384			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Sample ID: CCB-1540064

Report Date/Time: Friday, September 13, 2013 11:37:31

Page 2

ICP-MS Report

Sample ID: rinse

Sample Date/Time: Friday, September 13, 2013 00:44:14

Sample Type: Sample

Sample Description:

Sample File: C:\Elandata\Sample\E091213A.sam

Method File: C:\Elandata\Method\A 6020-200.8 FULL LIST with CRI ICSA ICSAB -- revert cal 08-08-2013.mth

Analyte	Mass	Meas. Intensity	Conc. Mean	Conc. SD	Conc. RSD	Units
[> Li-6	6	253420				ug/L
Li	7	14094	-0.0091	0.2006	2208.40	ug/L
Be	9	9	-0.0088	0.0080	91.21	ug/L
[> Sc	45	176902				ug/L
V	51	850	0.0242	0.0080	32.82	ug/L
Cr	52	2765	0.0381	0.0238	62.44	ug/L
Mn	55	5157	0.0683	0.0271	39.67	ug/L
[Cr	59	65	-0.0054	0.0038	69.67	ug/L
Ni	60	62	0.0356	0.0061	17.24	ug/L
Cu	63	264	0.0132	0.0124	93.41	ug/L
Zn	66	182	0.1330	0.0196	14.75	ug/L
[> Ge	72	109351				ug/L
As	75	114	0.0225	0.0062	27.70	ug/L
Br	79	506				ug/L
Se	82	12	0.2847	0.0750	26.35	ug/L
Kr	82	43				ug/L
Kr	83	57				ug/L
[Kr	84	271				ug/L
Kr	86	136				ug/L
Sr	88	339	-0.0255	0.0023	9.14	ug/L
[> Y	89	718049				ug/L
[Mo	98	278	0.1689	0.1353	80.06	ug/L
Ag	107	49	-0.0043	0.0022	50.14	ug/L
Cd	111	376	-0.0478	0.0180	37.68	ug/L
[> In	115	323664				ug/L
Sn	118	49	-0.0101	0.0025	24.41	ug/L
Sb	121	192	0.0797	0.0031	3.91	ug/L
[Ba	135	27	-0.0106	0.0099	93.41	ug/L
[> Tb	159	813169				ug/L
Tl	205	34	-0.0119	0.0023	19.29	ug/L
Pb	208	293	-0.0047	0.0018	38.00	ug/L
Bi	209	465543				ug/L

Sample ID: rinse

Report Date/Time: Friday, September 13, 2013 11:37:32

Page 1

QC Calculated Values

	Analyte	Mass	QC Std % Recovery	Int Std % Recovery	Spike % Recovery	Dilution % Diff	Dup. Rel. % Diff
[>	Li-6	6		95.418			
	Li	7					
	Be	9					
[>	Sc	45		88.793			
	V	51					
	Cr	52					
	Mn	55					
	Co	59					
	Ni	60					
	Cu	63					
	Zn	66					
[>	Ge	72		87.541			
	As	75					
	Br	79					
	Se	82					
	Kr	82					
	Kr	83					
	Kr	84					
	Kr	86					
	Sr	88					
[>	Y	89		89.092			
	Mo	98					
	Ag	107					
	Cd	111					
[>	In	115		87.317			
	Sn	118					
	Sb	121					
	Ba	135					
[>	Tb	159		89.008			
	Tl	205					
	Pb	208					
	Bi	209					

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

WinHg Database 1.1

File Utility Help

RN↓ RN↑ ?

Protocol hgppb Dataset/Proto H09113W1/hgppb

Protocol Line info Cal Curve Report Ctrl Chart Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 1.41366e-5

C -7.70085e-2

rho .999879

Type

Calibrated

Accepted

Accept

Rel. Abs. 711396

Accepted

New

Conc. 10.0

Include S4 Rep 1 2 3 4 5

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.053	-.053	1695	822	1883	2407	797
02	.20000	.146	-.054	15768	7.55%	17068	15499	14734
03	1.0000	1.03	.032	78472	2.55%	80683	77955	76778
04	2.0000	2.10	.104	154294	0.43%	153579	154877	154424
05	5.0000	4.99	-.009	358495	0.22%	359099	357623	358765
06	10.000	9.98	-.020	711396	0.47%	714638	707979	711573

Ready

CAP NUM

L2

9/11/13

138432

L

Cal: H09113C2

Row: H09113W1

Batches: 138357
138358
138359

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 2 Ck2ICV Seq: 1 14:12:34 11 Sep 13 HG

Line Flag %Rcv. Found True Units SD/RSD
Hg 101. 3.02 3.00 ppb .000

*** Check Standard: 1 Ck1CCB Seq: 2 14:14:20 11 Sep 13 HG

Line Flag Found Range(+/-) Units SD/RSD
Hg -.062 .200 ppb .000

*** Check Standard: 4 Ck4CRA Seq: 3 14:15:57 11 Sep 13 HG

Line Flag %Rcv. Found True Units SD/RSD
Hg 72.9 .146 .200 ppb .000

*** Check Standard: 3 Ck3CCV Seq: 4 14:17:52 11 Sep 13 HG

Line Flag %Rcv. Found True Units SD/RSD
Hg 102. 2.03 2.00 ppb .000

*** Check Standard: 1 Ck1CCB Seq: 5 14:19:28 11 Sep 13 HG

Line Flag Found Range(+/-) Units SD/RSD
Hg -.077 .200 ppb .000

*** Sample ID: Seq: 6 14:22:03 11 Sep 13 HG

Hg -.036 ppb .000 mb 480-138357/1-a -.036

*** Sample ID: Seq: 7 14:23:39 11 Sep 13 HG

Hg 3.88 ppb .000 lcs 480-138357/2-a 3.88

*** Sample ID: Seq: 8 14:25:25 11 Sep 13 HG

Hg -.076 ppb .000 480-45427-d-1-b -.076

*** Sample ID: Seq: 9 14:27:00 11 Sep 13 HG

Hg -.074 ppb .000 480-45427-d-2-b -.074

*** Sample ID: Seq: 10 14:28:34 11 Sep 13 HG

Hg -.035 ppb .000 480-45427-d-3-b -.035

*** Sample ID: Seq: 11 14:30:41 11 Sep 13 HG

Hg -.052 ppb .000 480-45427-d-4-b -.052

*** Sample ID: Seq: 12 14:32:19 11 Sep 13 HG

Hg -.047 ppb .000 480-45418-c-1-b -.047

*** Sample ID: Seq: 13 14:33:57 11 Sep 13 HG

Hg -.021 ppb .000 480-45418-c-5-d -.021

*** Sample ID: Seq: 14 14:35:35 11 Sep 13 HG

Hg -.055 ppb .000 480-45418-c-5-dSD@5 -.055

*** Sample ID: Seq: 15 14:37:11 11 Sep 13 HG

Hg 3.58 ppb .000 480-45418-c-5-e ms 3.58

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 16 14:38:46 11 Sep 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		98.4	1.97	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 17 14:40:43 11 Sep 13 HG

Line	Flag	Found Range(+/-)	Units	SD/RSD
Hg		-.079 .200	ppb	.000

*** Sample ID: Seq: 18 14:43:00 11 Sep 13 HG

480-45418-c-5-f msd				
Hg	3.65	ppb	.000	3.65

*** Sample ID: Seq: 19 14:44:46 11 Sep 13 HG

480-45418-c-6-b				
Hg	-.054	ppb	.000	-.054

*** Sample ID: Seq: 20 14:46:21 11 Sep 13 HG

480-45418-c-7-b				
Hg	-.071	ppb	.000	-.071

*** Sample ID: Seq: 21 14:48:20 11 Sep 13 HG

480-45418-a-10-b				
Hg	-.072	ppb	.000	-.072

*** Sample ID: Seq: 22 14:49:56 11 Sep 13 HG

480-45425-e-4-b				
Hg	-.061	ppb	.000	-.061

*** Sample ID: Seq: 23 14:51:31 11 Sep 13 HG

480-45433-a-1-b				
Hg	-.062	ppb	.000	-.062

*** Sample ID: Seq: 24 14:53:06 11 Sep 13 HG

480-45445-d-1-c				
Hg	-.048	ppb	.000	-.048

*** Sample ID: Seq: 25 14:54:45 11 Sep 13 HG

480-45465-c-7-b				
Hg	.645	ppb	.000	.645

*** Sample ID: Seq: 26 14:56:24 11 Sep 13 HG

480-45435-f-1-b				
Hg	-.072	ppb	.000	-.072

*** Sample ID: Seq: 27 14:58:00 11 Sep 13 HG

480-45507-d-2-a				
Hg	-.019	ppb	.000	-.019

*** Check Standard: 3 Ck3CCV Seq: 28 14:59:37 11 Sep 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		103.	2.05	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 29 15:01:22 11 Sep 13 HG

Line	Flag	Found Range(+/-)	Units	SD/RSD
Hg		-.047 .200	ppb	.000

*** Sample ID: Seq: 30 15:02:58 11 Sep 13 HG

480-45506-a-1-a				
Hg	-.027	ppb	.000	-.027

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: Seq: 31 15:04:56 11 Sep 13 HG								
460-62711-1-12-a								
Hg	-.079	ppb	.000	-.079				
*** Sample ID: Seq: 32 15:06:46 11 Sep 13 HG								
480-45502-a-1-a								
Hg	-.071	ppb	.000	-.071				
*** Sample ID: Seq: 33 15:08:21 11 Sep 13 HG								
mb 480-138358/1-a								
Hg	-.086	ppb	.000	-.086				
*** Sample ID: Seq: 34 15:10:07 11 Sep 13 HG								
lcs 480-138358/2-a								
Hg	3.98	ppb	.000	3.98				
*** Sample ID: Seq: 35 15:11:52 11 Sep 13 HG								
480-45457-c-1-d								
Hg	-.067	ppb	.000	-.067				
*** Sample ID: Seq: 36 15:13:27 11 Sep 13 HG								
480-45457-c-1-dSD@5								
Hg	-.106	ppb	.000	-.106				
*** Sample ID: Seq: 37 15:15:14 11 Sep 13 HG								
480-45457-c-1-e ms								
Hg	3.82	ppb	.000	3.82				
*** Sample ID: Seq: 38 15:16:52 11 Sep 13 HG								
480-45457-c-1-f msd								
Hg	3.81	ppb	.000	3.81				
*** Sample ID: Seq: 39 15:18:30 11 Sep 13 HG								
480-45457-c-2-b								
Hg	-.110	ppb	.000	-.110				
*** Check Standard: 3 Ck3CCV Seq: 40 15:20:16 11 Sep 13 HG								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		103.	2.06	2.00	ppb	.000		
*** Check Standard: 1 Ck1CCB Seq: 41 15:22:13 11 Sep 13 HG								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.056	.200	ppb	.000			
*** Sample ID: Seq: 42 15:24:03 11 Sep 13 HG								
480-45457-c-3-b								
Hg	-.044	ppb	.000	-.044				
*** Sample ID: Seq: 43 15:25:42 11 Sep 13 HG								
480-45457-c-4-b								
Hg	-.034	ppb	.000	-.034				
*** Sample ID: Seq: 44 15:27:18 11 Sep 13 HG								
480-45457-c-5-b								
Hg	-.045	ppb	.000	-.045				
*** Sample ID: Seq: 45 15:29:00 11 Sep 13 HG								
480-45457-c-6-b								
Hg	-.052	ppb	.000	-.052				

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: Seq: 46 15:30:37 11 Sep 13 HG								
480-45457-c-7-b								
Hg	-.073	ppb	.000	-.073				
*** Sample ID: Seq: 47 15:32:37 11 Sep 13 HG								
480-45457-c-8-b								
Hg	-.074	ppb	.000	-.074				
*** Sample ID: Seq: 48 15:34:22 11 Sep 13 HG								
480-45457-c-9-b								
Hg	-.084	ppb	.000	-.084				
*** Sample ID: Seq: 49 15:36:01 11 Sep 13 HG								
480-45457-c-10-b								
Hg	-.061	ppb	.000	-.061				
*** Sample ID: Seq: 50 15:37:47 11 Sep 13 HG								
480-45457-c-11-b								
Hg	-.070	ppb	.000	-.070				
*** Sample ID: Seq: 51 15:39:23 11 Sep 13 HG								
480-45457-c-12-b								
Hg	-.058	ppb	.000	-.058				
*** Check Standard: 3 Ck3CCV Seq: 52 15:40:59 11 Sep 13 HG								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		100.	2.01	2.00	ppb	.000		
*** Check Standard: 1 Ck1CCB Seq: 53 15:42:46 11 Sep 13 HG								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.073	.200	ppb	.000			
*** Sample ID: Seq: 54 15:44:44 11 Sep 13 HG								
480-45457-c-13-b								
Hg	-.084	ppb	.000	-.084				
*** Sample ID: Seq: 55 15:46:43 11 Sep 13 HG								
480-45457-c-14-b								
Hg	-.060	ppb	.000	-.060				
*** Sample ID: Seq: 56 15:48:44 11 Sep 13 HG								
480-45479-a-1-b								
Hg	-.038	ppb	.000	-.038				
*** Sample ID: Seq: 57 15:50:22 11 Sep 13 HG								
480-45479-a-2-b								
Hg	-.067	ppb	.000	-.067				
*** Sample ID: Seq: 58 15:52:28 11 Sep 13 HG								
mb 480-138359/1-a								
Hg	-.056	ppb	.000	-.056				
*** Sample ID: Seq: 59 15:54:06 11 Sep 13 HG								
lcs 480-138359/2-a								
Hg	4.02	ppb	.000	4.02				
*** Sample ID: Seq: 60 15:55:45 11 Sep 13 HG								
480-45472-f-1-b								
Hg	-.079	ppb	.000	-.079				

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: Seq: 61 15:57:22 11 Sep 13 HG								
480-45472-f-2-b								
Hg	-.070	ppb	.000	-.070				
*** Sample ID: Seq: 62 15:59:09 11 Sep 13 HG								
480-45472-f-3-b								
Hg	-.057	ppb	.000	-.057				
*** Sample ID: Seq: 63 16:00:46 11 Sep 13 HG								
480-45472-f-4-b								
Hg	-.069	ppb	.000	-.069				
*** Check Standard: 3 Ck3CCV Seq: 64 16:02:24 11 Sep 13 HG								
Line	Flag	%Rcv.	Found	True	Units	SD/RSD		
Hg		101.	2.02	2.00	ppb	.000		
*** Check Standard: 1 Ck1CCB Seq: 65 16:04:04 11 Sep 13 HG								
Line	Flag	Found	Range(+/-)	Units	SD/RSD			
Hg		-.077	.200	ppb	.000			
*** Sample ID: Seq: 66 16:06:00 11 Sep 13 HG								
480-45472-f-5-b								
Hg	-.040	ppb	.000	-.040				
*** Sample ID: Seq: 67 16:07:48 11 Sep 13 HG								
480-45472-f-6-d								
Hg	-.067	ppb	.000	-.067				
*** Sample ID: Seq: 68 16:09:39 11 Sep 13 HG								
480-45472-f-6-dSD@5								
Hg	-.071	ppb	.000	-.071				
*** Sample ID: Seq: 69 16:11:36 11 Sep 13 HG								
480-45472-f-6-e ms								
Hg	3.93	ppb	.000	3.93				
*** Sample ID: Seq: 70 16:13:22 11 Sep 13 HG								
480-45472-f-6-f msd								
Hg	3.92	ppb	.000	3.92				
*** Sample ID: Seq: 71 16:14:59 11 Sep 13 HG								
480-45472-f-7-b								
Hg	-.103	ppb	.000	-.103				
*** Sample ID: Seq: 72 16:16:37 11 Sep 13 HG								
480-45474-f-1-b								
Hg	-.051	ppb	.000	-.051				
*** Sample ID: Seq: 73 16:18:24 11 Sep 13 HG								
480-45474-f-2-d								
Hg	-.073	ppb	.000	-.073				
*** Sample ID: Seq: 74 16:20:06 11 Sep 13 HG								
480-45474-f-2-dSD@5								
Hg	-.065	ppb	.000	-.065				
*** Sample ID: Seq: 75 16:21:53 11 Sep 13 HG								
480-45474-f-2-e ms								
Hg	3.88	ppb	.000	3.88				

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Check Standard: 3 Ck3CCV Seq: 76 16:23:28 11 Sep 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.	2.01	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 77 16:25:18 11 Sep 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.075	.200	ppb	.000

*** Sample ID: Seq: 78 16:27:16 11 Sep 13 HG

480-45474-f-2-f msd
Hg 3.95 ppb .000 3.95

*** Sample ID: Seq: 79 16:28:52 11 Sep 13 HG

480-45474-f-3-b
Hg -.081 ppb .000 -.081

*** Sample ID: Seq: 80 16:30:39 11 Sep 13 HG

480-45474-f-4-b
Hg -.068 ppb .000 -.068

*** Sample ID: Seq: 81 16:32:38 11 Sep 13 HG

480-45474-f-5-b
Hg -.071 ppb .000 -.071

*** Sample ID: Seq: 82 16:34:15 11 Sep 13 HG

480-45465-c-1-b
Hg -.052 ppb .000 -.052

*** Sample ID: Seq: 83 16:36:14 11 Sep 13 HG

480-45465-c-2-b
Hg -.010 ppb .000 -.010

*** Sample ID: Seq: 84 16:37:53 11 Sep 13 HG

480-45465-c-3-b
Hg .747 ppb .000 .747

*** Sample ID: Seq: 85 16:39:30 11 Sep 13 HG

480-45465-c-4-d
Hg -.096 ppb .000 -.096

*** Sample ID: Seq: 86 16:41:08 11 Sep 13 HG

480-45465-c-4-dSD@5
Hg -.059 ppb .000 -.059

*** Sample ID: Seq: 87 16:43:29 11 Sep 13 HG

480-45465-c-4-e ms
Hg 3.94 ppb .000 3.94

*** Check Standard: 3 Ck3CCV Seq: 88 16:45:08 11 Sep 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		100.	2.01	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 89 16:46:43 11 Sep 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.064	.200	ppb	.000

*** Sample ID: Seq: 90 16:48:31 11 Sep 13 HG

480-45465-c-4-f msd
Hg 3.88 ppb .000 3.88

Protocol: hgppb

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: Seq: 91 16:50:50 11 Sep 13 HG

480-45465-c-5-b

Hg -.071 ppb .000 -.071

*** Sample ID: Seq: 92 16:52:46 11 Sep 13 HG

480-45465-c-6-b

Hg .134 ppb .000 .134

*** Check Standard: 4 Ck4CRA Seq: 93 16:54:54 11 Sep 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		70.5	.141	.200	ppb	.000

*** Check Standard: 3 Ck3CCV Seq: 94 16:56:30 11 Sep 13 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		101.	2.01	2.00	ppb	.000

*** Check Standard: 1 Ck1CCB Seq: 95 16:58:05 11 Sep 13 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		-.070	.200	ppb	.000

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Batch Number: 138328 Batch Start Date: 09/11/13 08:40 Batch Analyst: Dwyer, Nicole M

Batch Method: 3005A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_01_Si 00030	MED_01_W1 00015	MED_02_W2 00014	MED_03_Ag 00040
MB 480-138328/1		3005A, 6010B		50 mL	50 mL				
LCS 480-138328/2		3005A, 6010B		50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-45418-C-1	Sump Comp-090913	3005A, 6010B	T	50 mL	50 mL				
480-45418-C-5	Sump 4-090913	3005A, 6010B	T	50 mL	50 mL				
480-45418-C-5 MS	Sump 4-090913 MS	3005A, 6010B	T	50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-45418-C-5 MSD	Sump 4-090913 MSD	3005A, 6010B	T	50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-45418-C-6	MW-2-090913	3005A, 6010B	T	50 mL	50 mL				
480-45418-C-7	FDUP-090913	3005A, 6010B	T	50 mL	50 mL				
480-45418-A-10	EQUIPMENT BLANK	3005A, 6010B	T	50 mL	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00033					
MB 480-138328/1		3005A, 6010B							
LCS 480-138328/2		3005A, 6010B		0.25 mL					
480-45418-C-1	Sump Comp-090913	3005A, 6010B	T						
480-45418-C-5	Sump 4-090913	3005A, 6010B	T						
480-45418-C-5 MS	Sump 4-090913 MS	3005A, 6010B	T	0.25 mL					
480-45418-C-5 MSD	Sump 4-090913 MSD	3005A, 6010B	T	0.25 mL					
480-45418-C-6	MW-2-090913	3005A, 6010B	T						
480-45418-C-7	FDUP-090913	3005A, 6010B	T						
480-45418-A-10	EQUIPMENT BLANK	3005A, 6010B	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Batch Number: 138328 Batch Start Date: 09/11/13 08:40 Batch Analyst: Dwyer, Nicole MBatch Method: 3005A Batch End Date: _____

Batch Notes	
First End time	1140
Hydrochloric Acid Reagent ID Number	0000040272
Nitric Acid Reagent ID Number	0000050770
Hot Block ID number	D
Oven, Bath or Block Temperature 1	96.7 Degrees C
Oven, Bath or Block Temperature 2	95.3 Degrees C
Pipette ID	MDL-3
First Start time	0840
ID number of the thermometer	111404336
Digestion Tube/Cup Lot #	1303205
Uncorrected Temperature	95.7 Degrees C
Uncorrected Temperature 2	94.3 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Batch Number: 138383 Batch Start Date: 09/11/13 10:20 Batch Analyst: Dwyer, Nicole MBatch Method: 3020A Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_05_MS 00014	AnalysisComment		
MB 480-138383/1		3020A, 6020		50 mL	50 mL				
LCS 480-138383/2		3020A, 6020		50 mL	50 mL	0.1 mL			
LCSD 480-138383/3		3020A, 6020		50 mL	50 mL	0.1 mL			
480-45418-C-1	Sump Comp-090913	3020A, 6020	T	50 mL	50 mL		MAC01		
480-45418-C-5	Sump 4-090913	3020A, 6020	T	50 mL	50 mL		MAC01		
480-45418-C-5 MS	Sump 4-090913 MS	3020A, 6020	T	50 mL	50 mL	0.1 mL	MAC01		
480-45418-C-5 MSD	Sump 4-090913 MSD	3020A, 6020	T	50 mL	50 mL	0.1 mL	MAC01		
480-45418-C-6	MW-2-090913	3020A, 6020	T	50 mL	50 mL		MAC01		
480-45418-C-7	FDUP-090913	3020A, 6020	T	50 mL	50 mL		MAC01		
480-45418-A-10	EQUIPMENT BLANK	3020A, 6020	T	50 mL	50 mL		MAC01		

Batch Notes	
Batch Comment	30320751
First End time	1220
Lot # of Nitric Acid	1445184
Hot Block ID number	F
Oven, Bath or Block Temperature 1	92.8 Degrees C
Oven, Bath or Block Temperature 2	96.1 Degrees C
Pipette ID	MDL-1
First Start time	1020
ID number of the thermometer	111404336
Digestion Tube/Cup Lot #	1303205
Uncorrected Temperature	91.8 Degrees C
Uncorrected Temperature 2	95.1 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-45418-1

SDG No.: _____

Batch Number: 138357 Batch Start Date: 09/11/13 09:00 Batch Analyst: Kacalski, Jason RBatch Method: 7470A Batch End Date: 09/11/13 11:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG2_WKG 00448			
MB 480-138357/1		7470A, 7470A		30 mL	50 mL				
LCS 480-138357/2		7470A, 7470A		30 mL	50 mL	2 mL			
480-45418-C-1	Sump Comp-090913	7470A, 7470A	T	30 mL	50 mL				
480-45418-C-5	Sump 4-090913	7470A, 7470A	T	30 mL	50 mL				
480-45418-C-5 MS	Sump 4-090913 MS	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-45418-C-5 MSD	Sump 4-090913 MSD	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-45418-C-6	MW-2-090913	7470A, 7470A	T	30 mL	50 mL				
480-45418-C-7	FDUP-090913	7470A, 7470A	T	30 mL	50 mL				
480-45418-A-10	EQUIPMENT BLANK	7470A, 7470A	T	30 mL	50 mL				

Batch Notes	
Hydroxylamine Hydrochloride Lot	1516975
Batch Comment	Cal Batch:138432
Sulfuric Acid Lot Number	1509327
Lot # of Nitric Acid	1509297
Hot Block ID number	HG-A
Potassium Persulfate Lot Number	1516872
Potassium Permanganate Lot Number	1550831
Oven, Bath or Block Temperature 1	96.0 Celsius
Stannous Chloride Lot Number	1542450
ID number of the thermometer	S/N52507
Digestion Tube/Cup Lot #	1303205
Uncorrected Temperature	95.0 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

7470A

Page 1 of 1

Shipping and Receiving Documents

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Page 893 of 911

50151-435

by: Heino

Login Sample Receipt Checklist

Client: Honeywell International Inc

Job Number: 480-45418-1

Login Number: 45418

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	OMI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-45418-1

Client Project/Site: 30130 - Alltft Annual GW Sampling

For:

Honeywell International Inc

101 Columbia Road

Morristown, New Jersey 07962

Attn: Mr. Rich Galloway



Authorized for release by:

9/24/2013 6:17:04 PM

Rebecca Jones, Project Mgmt. Assistant

rebecca.jones@testamericainc.com

Designee for

John Schove, Project Manager I

john.schove@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Honeywell International Inc
Project/Site: 30130 - Alltft Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS/MSD Recovery and/or RPD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Honeywell International Inc
Project/Site: 30130 - Alltft Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Job ID: 480-45418-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-45418-1

Comments

No additional comments.

Receipt

The samples were received on 9/9/2013 4:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 3.6° C.

GC/MS VOA

Method(s) 8260B: The following volatiles sample(s) was diluted due to foaming at the time of purging during the original sample analysis: FDUP-090913 (480-45418-7), Sump 1-090913 (480-45418-2), Sump 2-090913 (480-45418-3), Sump 3-090913 (480-45418-4), Sump 4-090913 (480-45418-5), Sump 4-090913 MS (480-45418-5 MS), Sump 4-090913 MSD (480-45418-5 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The matrix spike duplicate (MSD) recoveries for batch 138961 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270C: The following samples contained one base surrogate outside acceptance limits: Sump 4-090913 MS (480-45418-5 MS), Sump 4-090913 MSD (480-45418-5 MSD). The laboratory's SOP allows one acid surrogate and/or one base surrogate to be outside acceptance limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Client Sample ID: Sump Comp-090913

Lab Sample ID: 480-45418-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.011		0.0040	0.0010	mg/L	1		6010B	Total/NA
Iron	13.7		0.050	0.019	mg/L	1		6010B	Total/NA
Manganese	3.2		0.0030	0.00040	mg/L	1		6010B	Total/NA
Antimony	0.83	J	1.0	0.15	ug/L	1		6020	Total/NA
Arsenic	30.0		1.0	0.078	ug/L	1		6020	Total/NA
Cadmium	0.22	J	0.50	0.071	ug/L	1		6020	Total/NA

Client Sample ID: Sump 1-090913

Lab Sample ID: 480-45418-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	13		4.0	3.0	ug/L	4		8260B	Total/NA

Client Sample ID: Sump 2-090913

Lab Sample ID: 480-45418-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	16		5.0	3.8	ug/L	5		8260B	Total/NA

Client Sample ID: Sump 3-090913

Lab Sample ID: 480-45418-4

No Detections.

Client Sample ID: Sump 4-090913

Lab Sample ID: 480-45418-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	33		4.0	3.0	ug/L	4		8260B	Total/NA
Chromium	0.0035	J	0.0040	0.0010	mg/L	1		6010B	Total/NA
Iron	10.9		0.050	0.019	mg/L	1		6010B	Total/NA
Manganese	3.4		0.0030	0.00040	mg/L	1		6010B	Total/NA
Antimony	0.51	J	1.0	0.15	ug/L	1		6020	Total/NA
Arsenic	11.7		1.0	0.078	ug/L	1		6020	Total/NA
Cadmium	0.078	J	0.50	0.071	ug/L	1		6020	Total/NA

Client Sample ID: MW-2-090913

Lab Sample ID: 480-45418-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.0031	J	0.0040	0.0010	mg/L	1		6010B	Total/NA
Iron	2.3		0.050	0.019	mg/L	1		6010B	Total/NA
Manganese	0.58		0.0030	0.00040	mg/L	1		6010B	Total/NA
Antimony	0.33	J	1.0	0.15	ug/L	1		6020	Total/NA
Arsenic	4.4		1.0	0.078	ug/L	1		6020	Total/NA
Cadmium	0.10	J	0.50	0.071	ug/L	1		6020	Total/NA

Client Sample ID: FDUP-090913

Lab Sample ID: 480-45418-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	18		4.0	3.0	ug/L	4		8260B	Total/NA
Chromium	0.0032	J	0.0040	0.0010	mg/L	1		6010B	Total/NA
Iron	10.8		0.050	0.019	mg/L	1		6010B	Total/NA
Manganese	3.4		0.0030	0.00040	mg/L	1		6010B	Total/NA
Antimony	0.55	J	1.0	0.15	ug/L	1		6020	Total/NA
Arsenic	12.6		1.0	0.078	ug/L	1		6020	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltft Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Client Sample ID: FDUP-090913 (Continued)

Lab Sample ID: 480-45418-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.072	J	0.50	0.071	ug/L	1		6020	Total/NA

Client Sample ID: TRIP BLANK 090913

Lab Sample ID: 480-45418-8

No Detections.

Client Sample ID: MW-2-090913

Lab Sample ID: 480-45418-9

No Detections.

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-45418-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	0.024	J	0.050	0.019	mg/L	1		6010B	Total/NA
Manganese	0.0037		0.0030	0.00040	mg/L	1		6010B	Total/NA
Arsenic	0.12	J	1.0	0.078	ug/L	1		6020	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltft Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Client Sample ID: Sump Comp-090913

Lab Sample ID: 480-45418-1

Date Collected: 09/09/13 12:00

Matrix: Water

Date Received: 09/09/13 16:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		4.8	0.56	ug/L		09/11/13 07:08	09/13/13 04:06	1
Naphthalene	ND		4.8	0.73	ug/L		09/11/13 07:08	09/13/13 04:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	92		46 - 120				09/11/13 07:08	09/13/13 04:06	1
2-Fluorobiphenyl	93		48 - 120				09/11/13 07:08	09/13/13 04:06	1
p-Terphenyl-d14	89		67 - 150				09/11/13 07:08	09/13/13 04:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.011		0.0040	0.0010	mg/L		09/11/13 08:40	09/12/13 03:35	1
Lead	ND		0.0050	0.0030	mg/L		09/11/13 08:40	09/12/13 03:35	1
Iron	13.7		0.050	0.019	mg/L		09/11/13 08:40	09/12/13 03:35	1
Manganese	3.2		0.0030	0.00040	mg/L		09/11/13 08:40	09/12/13 03:35	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.83	J	1.0	0.15	ug/L		09/11/13 10:20	09/12/13 15:35	1
Arsenic	30.0		1.0	0.078	ug/L		09/11/13 10:20	09/12/13 15:35	1
Cadmium	0.22	J	0.50	0.071	ug/L		09/11/13 10:20	09/12/13 15:35	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/11/13 09:00	09/11/13 14:32	1

Client Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltft Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Client Sample ID: Sump 1-090913

Lab Sample ID: 480-45418-2

Date Collected: 09/09/13 11:45

Matrix: Water

Date Received: 09/09/13 16:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			09/13/13 16:06	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			09/13/13 16:06	4
Benzene	ND		4.0	1.6	ug/L			09/13/13 16:06	4
Chlorobenzene	13		4.0	3.0	ug/L			09/13/13 16:06	4
Ethylbenzene	ND		4.0	3.0	ug/L			09/13/13 16:06	4
Xylenes, Total	ND		8.0	2.6	ug/L			09/13/13 16:06	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		09/13/13 16:06	4
Toluene-d8 (Surr)	96		71 - 126		09/13/13 16:06	4
4-Bromofluorobenzene (Surr)	90		73 - 120		09/13/13 16:06	4

Client Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltft Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Client Sample ID: Sump 2-090913

Lab Sample ID: 480-45418-3

Date Collected: 09/09/13 11:25

Matrix: Water

Date Received: 09/09/13 16:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			09/13/13 16:33	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			09/13/13 16:33	5
Benzene	ND		5.0	2.1	ug/L			09/13/13 16:33	5
Chlorobenzene	16		5.0	3.8	ug/L			09/13/13 16:33	5
Ethylbenzene	ND		5.0	3.7	ug/L			09/13/13 16:33	5
Xylenes, Total	ND		10	3.3	ug/L			09/13/13 16:33	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		66 - 137		09/13/13 16:33	5
Toluene-d8 (Surr)	95		71 - 126		09/13/13 16:33	5
4-Bromofluorobenzene (Surr)	91		73 - 120		09/13/13 16:33	5

Client Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltft Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Client Sample ID: Sump 3-090913

Lab Sample ID: 480-45418-4

Date Collected: 09/09/13 10:52

Matrix: Water

Date Received: 09/09/13 16:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			09/13/13 17:01	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			09/13/13 17:01	4
Benzene	ND		4.0	1.6	ug/L			09/13/13 17:01	4
Chlorobenzene	ND		4.0	3.0	ug/L			09/13/13 17:01	4
Ethylbenzene	ND		4.0	3.0	ug/L			09/13/13 17:01	4
Xylenes, Total	ND		8.0	2.6	ug/L			09/13/13 17:01	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137					09/13/13 17:01	4
Toluene-d8 (Surr)	95		71 - 126					09/13/13 17:01	4
4-Bromofluorobenzene (Surr)	90		73 - 120					09/13/13 17:01	4

Client Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Client Sample ID: Sump 4-090913

Lab Sample ID: 480-45418-5

Date Collected: 09/09/13 10:05

Matrix: Water

Date Received: 09/09/13 16:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			09/13/13 17:29	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			09/13/13 17:29	4
Benzene	ND		4.0	1.6	ug/L			09/13/13 17:29	4
Chlorobenzene	33		4.0	3.0	ug/L			09/13/13 17:29	4
Ethylbenzene	ND		4.0	3.0	ug/L			09/13/13 17:29	4
Xylenes, Total	ND		8.0	2.6	ug/L			09/13/13 17:29	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		66 - 137		09/13/13 17:29	4
Toluene-d8 (Surr)	95		71 - 126		09/13/13 17:29	4
4-Bromofluorobenzene (Surr)	90		73 - 120		09/13/13 17:29	4

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		4.7	0.56	ug/L		09/11/13 07:08	09/13/13 05:17	1
Naphthalene	ND		4.7	0.72	ug/L		09/11/13 07:08	09/13/13 05:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	86		46 - 120	09/11/13 07:08	09/13/13 05:17	1
2-Fluorobiphenyl	88		48 - 120	09/11/13 07:08	09/13/13 05:17	1
p-Terphenyl-d14	98		67 - 150	09/11/13 07:08	09/13/13 05:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0035	J	0.0040	0.0010	mg/L		09/11/13 08:40	09/12/13 03:38	1
Lead	ND		0.0050	0.0030	mg/L		09/11/13 08:40	09/12/13 03:38	1
Iron	10.9		0.050	0.019	mg/L		09/11/13 08:40	09/12/13 03:38	1
Manganese	3.4		0.0030	0.00040	mg/L		09/11/13 08:40	09/12/13 03:38	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.51	J	1.0	0.15	ug/L		09/11/13 10:20	09/12/13 15:41	1
Arsenic	11.7		1.0	0.078	ug/L		09/11/13 10:20	09/12/13 15:41	1
Cadmium	0.078	J	0.50	0.071	ug/L		09/11/13 10:20	09/12/13 15:41	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/11/13 09:00	09/11/13 14:33	1

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltft Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Client Sample ID: MW-2-090913

Lab Sample ID: 480-45418-6

Date Collected: 09/09/13 08:52

Matrix: Water

Date Received: 09/09/13 16:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/13/13 18:52	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/13/13 18:52	1
Benzene	ND		1.0	0.41	ug/L			09/13/13 18:52	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/13/13 18:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/13/13 18:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/13/13 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 137		09/13/13 18:52	1
Toluene-d8 (Surr)	95		71 - 126		09/13/13 18:52	1
4-Bromofluorobenzene (Surr)	89		73 - 120		09/13/13 18:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0031	J	0.0040	0.0010	mg/L		09/11/13 08:40	09/12/13 03:58	1
Lead	ND		0.0050	0.0030	mg/L		09/11/13 08:40	09/12/13 03:58	1
Iron	2.3		0.050	0.019	mg/L		09/11/13 08:40	09/12/13 03:58	1
Manganese	0.58		0.0030	0.00040	mg/L		09/11/13 08:40	09/12/13 03:58	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.33	J	1.0	0.15	ug/L		09/11/13 10:20	09/12/13 16:14	1
Arsenic	4.4		1.0	0.078	ug/L		09/11/13 10:20	09/12/13 16:14	1
Cadmium	0.10	J	0.50	0.071	ug/L		09/11/13 10:20	09/12/13 16:14	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/11/13 09:00	09/11/13 14:44	1

Client Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltft Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Client Sample ID: FDUP-090913

Lab Sample ID: 480-45418-7

Date Collected: 09/09/13 10:15

Matrix: Water

Date Received: 09/09/13 16:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			09/13/13 19:19	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			09/13/13 19:19	4
Benzene	ND		4.0	1.6	ug/L			09/13/13 19:19	4
Chlorobenzene	18		4.0	3.0	ug/L			09/13/13 19:19	4
Ethylbenzene	ND		4.0	3.0	ug/L			09/13/13 19:19	4
Xylenes, Total	ND		8.0	2.6	ug/L			09/13/13 19:19	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		66 - 137		09/13/13 19:19	4
Toluene-d8 (Surr)	94		71 - 126		09/13/13 19:19	4
4-Bromofluorobenzene (Surr)	91		73 - 120		09/13/13 19:19	4

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		4.7	0.56	ug/L		09/11/13 07:08	09/13/13 05:41	1
Naphthalene	ND		4.7	0.72	ug/L		09/11/13 07:08	09/13/13 05:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	92		46 - 120	09/11/13 07:08	09/13/13 05:41	1
2-Fluorobiphenyl	91		48 - 120	09/11/13 07:08	09/13/13 05:41	1
p-Terphenyl-d14	86		67 - 150	09/11/13 07:08	09/13/13 05:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0032	J	0.0040	0.0010	mg/L		09/11/13 08:40	09/12/13 04:01	1
Lead	ND		0.0050	0.0030	mg/L		09/11/13 08:40	09/12/13 04:01	1
Iron	10.8		0.050	0.019	mg/L		09/11/13 08:40	09/12/13 04:01	1
Manganese	3.4		0.0030	0.00040	mg/L		09/11/13 08:40	09/12/13 04:01	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.55	J	1.0	0.15	ug/L		09/11/13 10:20	09/12/13 16:20	1
Arsenic	12.6		1.0	0.078	ug/L		09/11/13 10:20	09/12/13 16:20	1
Cadmium	0.072	J	0.50	0.071	ug/L		09/11/13 10:20	09/12/13 16:20	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/11/13 09:00	09/11/13 14:46	1

TestAmerica Buffalo

Client Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltft Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Client Sample ID: TRIP BLANK 090913

Lab Sample ID: 480-45418-8

Date Collected: 09/09/13 12:15

Matrix: Water

Date Received: 09/09/13 16:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/13/13 19:47	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/13/13 19:47	1
Benzene	ND		1.0	0.41	ug/L			09/13/13 19:47	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/13/13 19:47	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/13/13 19:47	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/13/13 19:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		66 - 137		09/13/13 19:47	1
Toluene-d8 (Surr)	94		71 - 126		09/13/13 19:47	1
4-Bromofluorobenzene (Surr)	89		73 - 120		09/13/13 19:47	1

Client Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltft Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Client Sample ID: MW-2-090913

Lab Sample ID: 480-45418-9

Date Collected: 09/09/13 13:45

Matrix: Water

Date Received: 09/09/13 16:30

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		7.1	0.84	ug/L		09/11/13 07:08	09/13/13 06:05	1
Naphthalene	ND		7.1	1.1	ug/L		09/11/13 07:08	09/13/13 06:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	73		46 - 120				09/11/13 07:08	09/13/13 06:05	1
2-Fluorobiphenyl	77		48 - 120				09/11/13 07:08	09/13/13 06:05	1
p-Terphenyl-d14	84		67 - 150				09/11/13 07:08	09/13/13 06:05	1

Client Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltft Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-45418-10

Date Collected: 09/09/13 12:30

Matrix: Water

Date Received: 09/09/13 16:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0040	0.0010	mg/L		09/11/13 08:40	09/12/13 04:04	1
Lead	ND		0.0050	0.0030	mg/L		09/11/13 08:40	09/12/13 04:04	1
Iron	0.024	J	0.050	0.019	mg/L		09/11/13 08:40	09/12/13 04:04	1
Manganese	0.0037		0.0030	0.00040	mg/L		09/11/13 08:40	09/12/13 04:04	1

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.15	ug/L		09/11/13 10:20	09/12/13 16:26	1
Arsenic	0.12	J	1.0	0.078	ug/L		09/11/13 10:20	09/12/13 16:26	1
Cadmium	ND		0.50	0.071	ug/L		09/11/13 10:20	09/12/13 16:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/11/13 09:00	09/11/13 14:48	1

Surrogate Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltft Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		12DCE (66-137)	TOL (71-126)	BFB (73-120)
480-45418-2	Sump 1-090913	99	96	90
480-45418-3	Sump 2-090913	97	95	91
480-45418-4	Sump 3-090913	98	95	90
480-45418-5	Sump 4-090913	98	95	90
480-45418-5 MS	Sump 4-090913 MS	99	95	91
480-45418-5 MSD	Sump 4-090913 MSD	100	96	94
480-45418-6	MW-2-090913	100	95	89
480-45418-7	FDUP-090913	96	94	91
480-45418-8	TRIP BLANK 090913	97	94	89
LCS 480-138961/3	Lab Control Sample	97	96	92
MB 480-138961/4	Method Blank	97	94	89

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		NBZ (46-120)	FBP (48-120)	TPH (67-150)
480-45418-1	Sump Comp-090913	92	93	89
480-45418-5	Sump 4-090913	86	88	98
480-45418-5 MS	Sump 4-090913 MS	83	83	35 X
480-45418-5 MSD	Sump 4-090913 MSD	78	77	35 X
480-45418-7	FDUP-090913	92	91	86
480-45418-9	MW-2-090913	73	77	84
LCS 480-138326/2-A	Lab Control Sample	82	83	87
MB 480-138326/1-A	Method Blank	85	86	97

Surrogate Legend

NBZ = Nitrobenzene-d5

FBP = 2-Fluorobiphenyl

TPH = p-Terphenyl-d14

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-138961/4

Matrix: Water

Analysis Batch: 138961

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/13/13 14:37	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/13/13 14:37	1
Benzene	ND		1.0	0.41	ug/L			09/13/13 14:37	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/13/13 14:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/13/13 14:37	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/13/13 14:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		66 - 137		09/13/13 14:37	1
Toluene-d8 (Surr)	94		71 - 126		09/13/13 14:37	1
4-Bromofluorobenzene (Surr)	89		73 - 120		09/13/13 14:37	1

Lab Sample ID: LCS 480-138961/3

Matrix: Water

Analysis Batch: 138961

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	25.0	25.6		ug/L		102	80 - 124
Benzene	25.0	27.6		ug/L		110	71 - 124
Chlorobenzene	25.0	25.9		ug/L		103	72 - 120
Ethylbenzene	25.0	25.7		ug/L		103	77 - 123
Xylenes, Total	75.0	75.4		ug/L		101	76 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		66 - 137
Toluene-d8 (Surr)	96		71 - 126
4-Bromofluorobenzene (Surr)	92		73 - 120

Lab Sample ID: 480-45418-5 MS

Matrix: Water

Analysis Batch: 138961

Client Sample ID: Sump 4-090913 MS

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	ND		100	107		ug/L		107	80 - 124
Benzene	ND		100	122		ug/L		122	71 - 124
Chlorobenzene	33		100	120		ug/L		86	72 - 120
Ethylbenzene	ND		100	111		ug/L		111	77 - 123
Xylenes, Total	ND		300	321		ug/L		107	76 - 122

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		66 - 137
Toluene-d8 (Surr)	95		71 - 126
4-Bromofluorobenzene (Surr)	91		73 - 120

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-45418-5 MSD

Matrix: Water

Analysis Batch: 138961

Client Sample ID: Sump 4-090913 MSD

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	ND		100	111		ug/L		111	80 - 124	4	20
Benzene	ND		100	125	F	ug/L		125	71 - 124	2	13
Chlorobenzene	33		100	126		ug/L		93	72 - 120	6	25
Ethylbenzene	ND		100	118		ug/L		118	77 - 123	5	15
Xylenes, Total	ND		300	339		ug/L		113	76 - 122	5	16

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
Toluene-d8 (Surr)	96		71 - 126
4-Bromofluorobenzene (Surr)	94		73 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-138326/1-A

Matrix: Water

Analysis Batch: 138717

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 138326

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		5.0	0.59	ug/L		09/11/13 07:08	09/13/13 01:18	1
Naphthalene	ND		5.0	0.76	ug/L		09/11/13 07:08	09/13/13 01:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	85		46 - 120	09/11/13 07:08	09/13/13 01:18	1
2-Fluorobiphenyl	86		48 - 120	09/11/13 07:08	09/13/13 01:18	1
p-Terphenyl-d14	97		67 - 150	09/11/13 07:08	09/13/13 01:18	1

Lab Sample ID: LCS 480-138326/2-A

Matrix: Water

Analysis Batch: 138717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 138326

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	50.0	42.7		ug/L		85	60 - 124
Naphthalene	50.0	39.7		ug/L		79	35 - 117

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	82		46 - 120
2-Fluorobiphenyl	83		48 - 120
p-Terphenyl-d14	87		67 - 150

Lab Sample ID: 480-45418-5 MS

Matrix: Water

Analysis Batch: 138717

Client Sample ID: Sump 4-090913 MS

Prep Type: Total/NA

Prep Batch: 138326

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloroaniline	ND		47.1	39.2		ug/L		83	60 - 124
Naphthalene	ND		47.1	37.1		ug/L		79	35 - 117

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-45418-5 MS

Matrix: Water

Analysis Batch: 138717

Client Sample ID: Sump 4-090913 MS

Prep Type: Total/NA

Prep Batch: 138326

Surrogate	MS %Recovery	MS Qualifier	Limits
Nitrobenzene-d5	83		46 - 120
2-Fluorobiphenyl	83		48 - 120
p-Terphenyl-d14	35	X	67 - 150

Lab Sample ID: 480-45418-5 MSD

Matrix: Water

Analysis Batch: 138717

Client Sample ID: Sump 4-090913 MSD

Prep Type: Total/NA

Prep Batch: 138326

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Chloroaniline	ND		47.3	36.6		ug/L		78	60 - 124	7	22
Naphthalene	ND		47.3	36.1		ug/L		76	35 - 117	3	29

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5	78		46 - 120
2-Fluorobiphenyl	77		48 - 120
p-Terphenyl-d14	35	X	67 - 150

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 480-138328/1-A

Matrix: Water

Analysis Batch: 138593

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 138328

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0040	0.0010	mg/L		09/11/13 08:40	09/12/13 03:09	1
Lead	ND		0.0050	0.0030	mg/L		09/11/13 08:40	09/12/13 03:09	1
Iron	ND		0.050	0.019	mg/L		09/11/13 08:40	09/12/13 03:09	1
Manganese	ND		0.0030	0.00040	mg/L		09/11/13 08:40	09/12/13 03:09	1

Lab Sample ID: LCS 480-138328/2-A

Matrix: Water

Analysis Batch: 138593

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 138328

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.200	0.202		mg/L		101	80 - 120
Lead	0.200	0.194		mg/L		97	80 - 120
Iron	10.0	9.84		mg/L		98	80 - 120
Manganese	0.200	0.200		mg/L		100	80 - 120

Lab Sample ID: 480-45418-5 MS

Matrix: Water

Analysis Batch: 138593

Client Sample ID: Sump 4-090913 MS

Prep Type: Total/NA

Prep Batch: 138328

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.0035	J	0.200	0.212		mg/L		104	75 - 125
Lead	ND		0.200	0.209		mg/L		104	75 - 125
Iron	10.9		10.0	22.83		mg/L		119	75 - 125
Manganese	3.4		0.200	3.80	4	mg/L		219	75 - 125

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltft Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 480-45418-5 MSD

Matrix: Water

Analysis Batch: 138593

Client Sample ID: Sump 4-090913 MSD

Prep Type: Total/NA

Prep Batch: 138328

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	0.0035	J	0.200	0.206		mg/L		101	75 - 125	3	20
Lead	ND		0.200	0.206		mg/L		103	75 - 125	1	20
Iron	10.9		10.0	21.24		mg/L		103	75 - 125	7	20
Manganese	3.4		0.200	3.72	4	mg/L		180	75 - 125	2	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 480-138383/1-A

Matrix: Water

Analysis Batch: 138948

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 138383

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.0	0.15	ug/L		09/11/13 10:20	09/12/13 14:32	1
Arsenic	ND		1.0	0.078	ug/L		09/11/13 10:20	09/12/13 14:32	1
Cadmium	ND		0.50	0.071	ug/L		09/11/13 10:20	09/12/13 14:32	1

Lab Sample ID: LCS 480-138383/2-A

Matrix: Water

Analysis Batch: 138948

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 138383

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	20.0	21.21		ug/L		106	80 - 120
Arsenic	20.0	20.53		ug/L		103	80 - 120
Cadmium	20.0	20.07		ug/L		100	80 - 120

Lab Sample ID: LCSD 480-138383/3-A

Matrix: Water

Analysis Batch: 138948

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 138383

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	20.0	21.24		ug/L		106	80 - 120	0	20
Arsenic	20.0	20.44		ug/L		102	80 - 120	0	20
Cadmium	20.0	20.20		ug/L		101	80 - 120	1	20

Lab Sample ID: 480-45418-5 MS

Matrix: Water

Analysis Batch: 138948

Client Sample ID: Sump 4-090913 MS

Prep Type: Total/NA

Prep Batch: 138383

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	0.51	J	20.0	23.15		ug/L		113	75 - 125
Arsenic	11.7		20.0	33.96		ug/L		111	75 - 125
Cadmium	0.078	J	20.0	20.23		ug/L		101	75 - 125

Lab Sample ID: 480-45418-5 MSD

Matrix: Water

Analysis Batch: 138948

Client Sample ID: Sump 4-090913 MSD

Prep Type: Total/NA

Prep Batch: 138383

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	0.51	J	20.0	23.02		ug/L		113	75 - 125	1	20

TestAmerica Buffalo

QC Sample Results

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 480-45418-5 MSD

Matrix: Water

Analysis Batch: 138948

Client Sample ID: Sump 4-090913 MSD

Prep Type: Total/NA

Prep Batch: 138383

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	11.7		20.0	33.19		ug/L		107	75 - 125	2	20
Cadmium	0.078	J	20.0	20.34		ug/L		101	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-138357/1-A

Matrix: Water

Analysis Batch: 138565

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 138357

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		09/11/13 09:00	09/11/13 14:22	1

Lab Sample ID: LCS 480-138357/2-A

Matrix: Water

Analysis Batch: 138565

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 138357

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00647		mg/L		97	80 - 120

Lab Sample ID: 480-45418-5 MS

Matrix: Water

Analysis Batch: 138565

Client Sample ID: Sump 4-090913 MS

Prep Type: Total/NA

Prep Batch: 138357

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00597		mg/L		89	75 - 125

Lab Sample ID: 480-45418-5 MSD

Matrix: Water

Analysis Batch: 138565

Client Sample ID: Sump 4-090913 MSD

Prep Type: Total/NA

Prep Batch: 138357

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00608		mg/L		91	75 - 125	2	20

TestAmerica Buffalo

QC Association Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff Annual GW Sampling

TestAmerica Job ID: 480-45418-1

GC/MS VOA

Analysis Batch: 138961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-45418-2	Sump 1-090913	Total/NA	Water	8260B	
480-45418-3	Sump 2-090913	Total/NA	Water	8260B	
480-45418-4	Sump 3-090913	Total/NA	Water	8260B	
480-45418-5	Sump 4-090913	Total/NA	Water	8260B	
480-45418-5 MS	Sump 4-090913 MS	Total/NA	Water	8260B	
480-45418-5 MSD	Sump 4-090913 MSD	Total/NA	Water	8260B	
480-45418-6	MW-2-090913	Total/NA	Water	8260B	
480-45418-7	FDUP-090913	Total/NA	Water	8260B	
480-45418-8	TRIP BLANK 090913	Total/NA	Water	8260B	
LCS 480-138961/3	Lab Control Sample	Total/NA	Water	8260B	
MB 480-138961/4	Method Blank	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 138326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-45418-1	Sump Comp-090913	Total/NA	Water	3510C	
480-45418-5	Sump 4-090913	Total/NA	Water	3510C	
480-45418-5 MS	Sump 4-090913 MS	Total/NA	Water	3510C	
480-45418-5 MSD	Sump 4-090913 MSD	Total/NA	Water	3510C	
480-45418-7	FDUP-090913	Total/NA	Water	3510C	
480-45418-9	MW-2-090913	Total/NA	Water	3510C	
LCS 480-138326/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 480-138326/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 138717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-45418-1	Sump Comp-090913	Total/NA	Water	8270C	138326
480-45418-5	Sump 4-090913	Total/NA	Water	8270C	138326
480-45418-5 MS	Sump 4-090913 MS	Total/NA	Water	8270C	138326
480-45418-5 MSD	Sump 4-090913 MSD	Total/NA	Water	8270C	138326
480-45418-7	FDUP-090913	Total/NA	Water	8270C	138326
480-45418-9	MW-2-090913	Total/NA	Water	8270C	138326
LCS 480-138326/2-A	Lab Control Sample	Total/NA	Water	8270C	138326
MB 480-138326/1-A	Method Blank	Total/NA	Water	8270C	138326

Metals

Prep Batch: 138328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-45418-1	Sump Comp-090913	Total/NA	Water	3005A	
480-45418-5	Sump 4-090913	Total/NA	Water	3005A	
480-45418-5 MS	Sump 4-090913 MS	Total/NA	Water	3005A	
480-45418-5 MSD	Sump 4-090913 MSD	Total/NA	Water	3005A	
480-45418-6	MW-2-090913	Total/NA	Water	3005A	
480-45418-7	FDUP-090913	Total/NA	Water	3005A	
480-45418-10	EQUIPMENT BLANK	Total/NA	Water	3005A	
LCS 480-138328/2-A	Lab Control Sample	Total/NA	Water	3005A	
MB 480-138328/1-A	Method Blank	Total/NA	Water	3005A	

TestAmerica Buffalo

QC Association Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Metals (Continued)

Prep Batch: 138357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-45418-1	Sump Comp-090913	Total/NA	Water	7470A	
480-45418-5	Sump 4-090913	Total/NA	Water	7470A	
480-45418-5 MS	Sump 4-090913 MS	Total/NA	Water	7470A	
480-45418-5 MSD	Sump 4-090913 MSD	Total/NA	Water	7470A	
480-45418-6	MW-2-090913	Total/NA	Water	7470A	
480-45418-7	FDUP-090913	Total/NA	Water	7470A	
480-45418-10	EQUIPMENT BLANK	Total/NA	Water	7470A	
LCS 480-138357/2-A	Lab Control Sample	Total/NA	Water	7470A	
MB 480-138357/1-A	Method Blank	Total/NA	Water	7470A	

Prep Batch: 138383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-45418-1	Sump Comp-090913	Total/NA	Water	3020A	
480-45418-5	Sump 4-090913	Total/NA	Water	3020A	
480-45418-5 MS	Sump 4-090913 MS	Total/NA	Water	3020A	
480-45418-5 MSD	Sump 4-090913 MSD	Total/NA	Water	3020A	
480-45418-6	MW-2-090913	Total/NA	Water	3020A	
480-45418-7	FDUP-090913	Total/NA	Water	3020A	
480-45418-10	EQUIPMENT BLANK	Total/NA	Water	3020A	
LCS 480-138383/2-A	Lab Control Sample	Total/NA	Water	3020A	
LCSD 480-138383/3-A	Lab Control Sample Dup	Total/NA	Water	3020A	
MB 480-138383/1-A	Method Blank	Total/NA	Water	3020A	

Analysis Batch: 138565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-45418-1	Sump Comp-090913	Total/NA	Water	7470A	138357
480-45418-5	Sump 4-090913	Total/NA	Water	7470A	138357
480-45418-5 MS	Sump 4-090913 MS	Total/NA	Water	7470A	138357
480-45418-5 MSD	Sump 4-090913 MSD	Total/NA	Water	7470A	138357
480-45418-6	MW-2-090913	Total/NA	Water	7470A	138357
480-45418-7	FDUP-090913	Total/NA	Water	7470A	138357
480-45418-10	EQUIPMENT BLANK	Total/NA	Water	7470A	138357
LCS 480-138357/2-A	Lab Control Sample	Total/NA	Water	7470A	138357
MB 480-138357/1-A	Method Blank	Total/NA	Water	7470A	138357

Analysis Batch: 138593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-45418-1	Sump Comp-090913	Total/NA	Water	6010B	138328
480-45418-5	Sump 4-090913	Total/NA	Water	6010B	138328
480-45418-5 MS	Sump 4-090913 MS	Total/NA	Water	6010B	138328
480-45418-5 MSD	Sump 4-090913 MSD	Total/NA	Water	6010B	138328
480-45418-6	MW-2-090913	Total/NA	Water	6010B	138328
480-45418-7	FDUP-090913	Total/NA	Water	6010B	138328
480-45418-10	EQUIPMENT BLANK	Total/NA	Water	6010B	138328
LCS 480-138328/2-A	Lab Control Sample	Total/NA	Water	6010B	138328
MB 480-138328/1-A	Method Blank	Total/NA	Water	6010B	138328

Analysis Batch: 138948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-45418-1	Sump Comp-090913	Total/NA	Water	6020	138383
480-45418-5	Sump 4-090913	Total/NA	Water	6020	138383

TestAmerica Buffalo

QC Association Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltft Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Metals (Continued)

Analysis Batch: 138948 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-45418-5 MS	Sump 4-090913 MS	Total/NA	Water	6020	138383
480-45418-5 MSD	Sump 4-090913 MSD	Total/NA	Water	6020	138383
480-45418-6	MW-2-090913	Total/NA	Water	6020	138383
480-45418-7	FDUP-090913	Total/NA	Water	6020	138383
480-45418-10	EQUIPMENT BLANK	Total/NA	Water	6020	138383
LCS 480-138383/2-A	Lab Control Sample	Total/NA	Water	6020	138383
LCSD 480-138383/3-A	Lab Control Sample Dup	Total/NA	Water	6020	138383
MB 480-138383/1-A	Method Blank	Total/NA	Water	6020	138383

Lab Chronicle

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Client Sample ID: Sump Comp-090913

Lab Sample ID: 480-45418-1

Date Collected: 09/09/13 12:00

Matrix: Water

Date Received: 09/09/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			138326	09/11/13 07:08	DLE	TAL BUF
Total/NA	Analysis	8270C		1	138717	09/13/13 04:06	ANM	TAL BUF
Total/NA	Prep	7470A			138357	09/11/13 09:00	JRK	TAL BUF
Total/NA	Analysis	7470A		1	138565	09/11/13 14:32	JRK	TAL BUF
Total/NA	Prep	3005A			138328	09/11/13 08:40	NMD2	TAL BUF
Total/NA	Analysis	6010B		1	138593	09/12/13 03:35	LMH	TAL BUF
Total/NA	Prep	3020A			138383	09/11/13 10:20	NMD2	TAL BUF
Total/NA	Analysis	6020		1	138948	09/12/13 15:35	MTM2	TAL BUF

Client Sample ID: Sump 1-090913

Lab Sample ID: 480-45418-2

Date Collected: 09/09/13 11:45

Matrix: Water

Date Received: 09/09/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	138961	09/13/13 16:06	TRB	TAL BUF

Client Sample ID: Sump 2-090913

Lab Sample ID: 480-45418-3

Date Collected: 09/09/13 11:25

Matrix: Water

Date Received: 09/09/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	138961	09/13/13 16:33	TRB	TAL BUF

Client Sample ID: Sump 3-090913

Lab Sample ID: 480-45418-4

Date Collected: 09/09/13 10:52

Matrix: Water

Date Received: 09/09/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	138961	09/13/13 17:01	TRB	TAL BUF

Client Sample ID: Sump 4-090913

Lab Sample ID: 480-45418-5

Date Collected: 09/09/13 10:05

Matrix: Water

Date Received: 09/09/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	138961	09/13/13 17:29	TRB	TAL BUF
Total/NA	Prep	3510C			138326	09/11/13 07:08	DLE	TAL BUF
Total/NA	Analysis	8270C		1	138717	09/13/13 05:17	ANM	TAL BUF
Total/NA	Prep	7470A			138357	09/11/13 09:00	JRK	TAL BUF
Total/NA	Analysis	7470A		1	138565	09/11/13 14:33	JRK	TAL BUF
Total/NA	Prep	3005A			138328	09/11/13 08:40	NMD2	TAL BUF
Total/NA	Analysis	6010B		1	138593	09/12/13 03:38	LMH	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Client Sample ID: Sump 4-090913

Lab Sample ID: 480-45418-5

Date Collected: 09/09/13 10:05

Matrix: Water

Date Received: 09/09/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			138383	09/11/13 10:20	NMD2	TAL BUF
Total/NA	Analysis	6020		1	138948	09/12/13 15:41	MTM2	TAL BUF

Client Sample ID: MW-2-090913

Lab Sample ID: 480-45418-6

Date Collected: 09/09/13 08:52

Matrix: Water

Date Received: 09/09/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	138961	09/13/13 18:52	TRB	TAL BUF
Total/NA	Prep	7470A			138357	09/11/13 09:00	JRK	TAL BUF
Total/NA	Analysis	7470A		1	138565	09/11/13 14:44	JRK	TAL BUF
Total/NA	Prep	3005A			138328	09/11/13 08:40	NMD2	TAL BUF
Total/NA	Analysis	6010B		1	138593	09/12/13 03:58	LMH	TAL BUF
Total/NA	Prep	3020A			138383	09/11/13 10:20	NMD2	TAL BUF
Total/NA	Analysis	6020		1	138948	09/12/13 16:14	MTM2	TAL BUF

Client Sample ID: FDUP-090913

Lab Sample ID: 480-45418-7

Date Collected: 09/09/13 10:15

Matrix: Water

Date Received: 09/09/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	138961	09/13/13 19:19	TRB	TAL BUF
Total/NA	Prep	3510C			138326	09/11/13 07:08	DLE	TAL BUF
Total/NA	Analysis	8270C		1	138717	09/13/13 05:41	ANM	TAL BUF
Total/NA	Prep	7470A			138357	09/11/13 09:00	JRK	TAL BUF
Total/NA	Analysis	7470A		1	138565	09/11/13 14:46	JRK	TAL BUF
Total/NA	Prep	3005A			138328	09/11/13 08:40	NMD2	TAL BUF
Total/NA	Analysis	6010B		1	138593	09/12/13 04:01	LMH	TAL BUF
Total/NA	Prep	3020A			138383	09/11/13 10:20	NMD2	TAL BUF
Total/NA	Analysis	6020		1	138948	09/12/13 16:20	MTM2	TAL BUF

Client Sample ID: TRIP BLANK 090913

Lab Sample ID: 480-45418-8

Date Collected: 09/09/13 12:15

Matrix: Water

Date Received: 09/09/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	138961	09/13/13 19:47	TRB	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: Honeywell International Inc
Project/Site: 30130 - Alltft Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Client Sample ID: MW-2-090913

Lab Sample ID: 480-45418-9

Date Collected: 09/09/13 13:45

Matrix: Water

Date Received: 09/09/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			138326	09/11/13 07:08	DLE	TAL BUF
Total/NA	Analysis	8270C		1	138717	09/13/13 06:05	ANM	TAL BUF

Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-45418-10

Date Collected: 09/09/13 12:30

Matrix: Water

Date Received: 09/09/13 16:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			138357	09/11/13 09:00	JRK	TAL BUF
Total/NA	Analysis	7470A		1	138565	09/11/13 14:48	JRK	TAL BUF
Total/NA	Prep	3005A			138328	09/11/13 08:40	NMD2	TAL BUF
Total/NA	Analysis	6010B		1	138593	09/12/13 04:04	LMH	TAL BUF
Total/NA	Prep	3020A			138383	09/11/13 10:20	NMD2	TAL BUF
Total/NA	Analysis	6020		1	138948	09/12/13 16:26	MTM2	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltiff Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	10-06-13
California	NELAP	9	1169CA	09-30-13
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Illinois	NELAP	5	200003	09-30-13
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	09-30-13
Wisconsin	State Program	5	998310390	08-31-14

Method Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltft Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010B	Metals (ICP)	SW846	TAL BUF
6020	Metals (ICP/MS)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Honeywell International Inc
Project/Site: 30130 - Alltft Annual GW Sampling

TestAmerica Job ID: 480-45418-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-45418-1	Sump Comp-090913	Water	09/09/13 12:00	09/09/13 16:30
480-45418-2	Sump 1-090913	Water	09/09/13 11:45	09/09/13 16:30
480-45418-3	Sump 2-090913	Water	09/09/13 11:25	09/09/13 16:30
480-45418-4	Sump 3-090913	Water	09/09/13 10:52	09/09/13 16:30
480-45418-5	Sump 4-090913	Water	09/09/13 10:05	09/09/13 16:30
480-45418-6	MW-2-090913	Water	09/09/13 08:52	09/09/13 16:30
480-45418-7	FDUP-090913	Water	09/09/13 10:15	09/09/13 16:30
480-45418-8	TRIP BLANK 090913	Water	09/09/13 12:15	09/09/13 16:30
480-45418-9	MW-2-090913	Water	09/09/13 13:45	09/09/13 16:30
480-45418-10	EQUIPMENT BLANK	Water	09/09/13 12:30	09/09/13 16:30

Chain of Custody Record

Client Information		Lab PM: John Schove		Carrier Tracking No(s):		COC No: 480-38790-7003.1	
Client Contact: Patrick Higgins		E-Mail: John Schove		Page: 1 of 2		Job #:	
Company: Honeywell International Inc		Address: 1563 Willis Ave		City: Syracuse		State: NY	
Phone: 315-488-1863		PO #: 4500073922		Phone: 315-488-1863		E-Mail:	
Due Date Requested: 2 Weeks		TAT Requested (days):		Project #: 48004175		SSOW#:	
Site: Honeywell Buffalo Sites		Location Identification		Sample Date		Sample Time	
Sample Type (C=Comp, G=grab)		Sample Matrix (W=Water, B=Soil, O=Other, ST=Status, A=Air)		Preservation Code:		Field Filtered Sample (Yes or No)	
Perform MS/MSD (Yes or No)		Mercury (4-Chloroanthracene and Naphthalene)		Benzene, chlorobenzene, ethylbenzene, and total xylene		Total Number of Containers	
Special Instructions/Note:		Preservation Codes:		Analysis Requested		Special Instructions/Note:	
A - HCL		M - Hexane		B - NaOH		N - None	
C - Zn Acetate		O - AsNaO2		D - Nitric Acid		P - Na2O4S	
E - NaHSO4		Q - Na2SO3		F - MeOH		R - Na2S2O3	
G - Amchlor		S - H2SO4		H - Ascorbic Acid		T - TSP Dodecahydrate	
I - Ice		U - Acetone		J - DI Water		V - MCAA	
K - EDTA		W - pH 4-5		L - EDA		Z - other (specify)	
Other:							
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		Disposal By Lab		Archive For	
Special Instructions/QC Requirements:		Time:		Date:		Time:	
Received by: [Signature]		Company: [Signature]		Received by: [Signature]		Company: [Signature]	
Date/Time: 9/24/2013 10:30		Date/Time: 9/24/2013 10:30		Date/Time: 9/24/2013 10:30		Date/Time: 9/24/2013 10:30	
Cooler Temperature(s) °C and Other Remarks: 36, 2, 4 #1							

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SECRET

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Login Sample Receipt Checklist

Client: Honeywell International Inc

Job Number: 480-45418-1

Login Number: 45418

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	OMI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	